ADDENDUM NO. 1

January 14, 2022

North Central High School Renovations and Additions Phase 2b –
West Gym Addition Electrical & Technology and Centralized Bus Storage
1801 E. 86TH Street
Indianapolis, IN 46240

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated December 6, 2021, by Schmidt Associates. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-2 and attached Schmidt Associates Addendum No. 1, dated January 14, 2022, consisting of four (4) pages and Addendum Drawings: S-001, SF101, S-501, AD101, AF101, A-300, PD101, PP101, ESD100.2, ESD101.2, ESD102.2, ESD103.2, ESD104.2, ESD105.2, ESD106.2, ESD107.2, ES100.2, ESL101.2, ESP101.2, ES102.2, ES103.2, ES104.2, ES105.2, ES106.2, ES107.2, ED1M1.2, ED1M2.2, EL1M1.2, EL1T1.2, EL1W1.2, EL1X1.2, EL1Y1.2, EL1Z1.2, EL1M2.2, EL1W2.2, EL1X2.2, EL1Z2.2, EP101.2, EP102.2, EP1M1.2, EP1W1.2, EP1Z1.2, EP1W2.2, EP1K3.2, ER101.2, E-501.2, E-502.2, E-504.2, E-601.2, E-603.2, E-604.2, E-605.2, E-606.2, E-607.2, E-608.2, E-601, TF001.2, TF002.2, TD101.2, TD1M1.2, TD1T1.2, TD1U1.2, TD1Z1.2, TF101.2, TF1M1.2, TF1T1.2, F1W1.2, TF1X1.2, TF1Z1.2, TF102.2, TF1Z2.2, TF2M1.2, TF2W1.2, TF2X1.2, TF2Z1.2, TF2W2.2, T307.2, T405.2, T406.2, T500.2, TD101, TF101, TF203, T300, T500, T501.

A. GENERAL INFORMATION:

1. Virtual Bid Opening link is:

Microsoft Teams meeting
Join on your computer or mobile app
Click here to join the meeting
Or call in (audio only)
+1 317-762-3960,,852284030#

2. The link below includes the bid document drawing sheets for Phase 2A. This includes all civil, structural, architectural, mechanical and plumbing.

   https://app.plangrid.com/projects/4c884a07-da8b-7238-b452-4f23ff5f2399/staple/16671c45-3bcf-4c89-8d05-bd795fdd1147

3. The Pre-Award Meeting schedule is attached herein.

PRE-AWARD MEETING SCHEDULE

- **Pre-Award Meetings will be conducted on January 21, 2022 at the times designated below. A Microsoft TEAMS invite will be distributed prior:**

• Bid Category No. 19 – Electrical & Technology	9:00 AM
• Bid Category No. 20 – Transp. Maint. Building Reno	10:00 AM
• Bid Category No. 21 – Transp. Storage Building	11:00 AM

WASHINGTON TOWNSHIP SCHOOLS

SKILLMAN

DAVIS & ASSOCIATES, INC.

SCHMIDT ASSOCIATES

ADDENDUM NO. 1
JANUARY 14, 2022

PREPARED BY SCHMIDT ASSOCIATES FOR:

NORTH CENTRAL HIGH SCHOOL – WEST GYM ADDITION ELECTRICAL & TECHNOLOGY AND CENTRALIZED BUS STORAGE
WASHINGTON TOWNSHIP, M.S.D. OF

This Addendum consists of 4 Addendum pages and 113 attachment pages totaling 117 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING(HVAC)

A. **Section 230900.99 "DIRECT DIGITAL CONTROL SYSTEMS"**

1. ADD Document MSDWT Transportation Bldg DR.0.PDF per the attached.

   "Document MSDWT Transportation Bldg DR.0.PDF includes 24 pages of 11x17 Temperature Control Services (TCS) drawings dated 1/11/2022 under Project Number PAS1976-SRV2245 that include installation standards, riser diagrams, and temperature control schematic with points and wiring diagram details that shall be installed by the controls installation contractor (CIC) as performed by the mechanical, technology, and electrical contractors and indicated on the M-700 drawings up to and including this addendum."

2.2 DIVISION 26 – ELECTRICAL

A. **Section 262413 "SWITCHBOARDS"**

1. ADD Document "NCHS Schneider Electric Retrofill Scope" per the attached.

2.3 DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

A. **Section 281600 "INTRUSION DETECTION"**

1. MODIFY Paragraph 1.1.A. to read as follows:

"A. The work required under this section consists of providing labor, equipment, supplies, materials, and testing unless otherwise specified, to perform the following operations recognized as necessary for the installation, termination, and labeling of wiring to provide a complete and functional Intrusion Detection system serving the Bus Transportation Building and Transportation Storage Building. Intrusion Detection wiring includes cables for keypads, motion detectors, door sensors, and other system module requiring connectivity back to the system controller."

PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain unchanged.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

	DRAWING NO.	INDICATE ACTION: REPLACE (R), ADD (A), DELETE (D)
S-SERIES DRAWINGS		
	2-S-001	DELETE AND REPLACE
	2-SF101	DELETE AND REPLACE
	2-S-501	DELETE AND REPLACE
A-SERIES DRAWINGS		
	1-AD101	DELETE AND REPLACE
	1-AF101	DELETE AND REPLACE
	2-A-300	DELETE AND REPLACE
P-SERIES DRAWINGS		
	1-PD101	DELETE AND REPLACE
	2-PP101	DELETE AND REPLACE
E-SERIES DRAWINGS		
	ESD100.2	DELETE AND REPLACE
	ESD101.2	DELETE AND REPLACE
	ESD102.2	DELETE AND REPLACE
	ESD103.2	DELETE AND REPLACE
	ESD104.2	DELETE AND REPLACE
	ESD105.2	DELETE AND REPLACE
	ESD106.2	DELETE AND REPLACE
	ESD107.2	ADD
	ES100.2	DELETE AND REPLACE
	ESL101.2	DELETE AND REPLACE
	ESP101.2	DELETE AND REPLACE

ES102.2	DELETE AND REPLACE
ES103.2	DELETE AND REPLACE
ES104.2	DELETE AND REPLACE
ES105.2	DELETE AND REPLACE
ES106.2	DELETE AND REPLACE
ES107.2	ADD
ED1M1.2	DELETE AND REPLACE
ED1M2.2	DELETE AND REPLACE
EL1M1.2	DELETE AND REPLACE
EL1T1.2	DELETE AND REPLACE
EL1W1.2	DELETE AND REPLACE
EL1X1.2	DELETE AND REPLACE
EL1Y1.2	DELETE AND REPLACE
EL1Z1.2	DELETE AND REPLACE
EL1M2.2	DELETE AND REPLACE
EL1W2.2	DELETE AND REPLACE
EL1X2.2	DELETE AND REPLACE
EL1Z2.2	DELETE AND REPLACE
EP101.2	DELETE AND REPLACE
EP102.2	ADD
EP1M1.2	DELETE AND REPLACE
EP1W1.2	DELETE AND REPLACE
EP1Z1.2	DELETE AND REPLACE
EP1W2.2	DELETE AND REPLACE
EP1K3.2	DELETE AND REPLACE
ER101.2	DELETE AND REPLACE
E-501.2	DELETE AND REPLACE
E-502.2	DELETE AND REPLACE
E-504.2	DELETE AND REPLACE
E-601.2	DELETE AND REPLACE
E-603.2	DELETE AND REPLACE
E-604.2	DELETE AND REPLACE
E-605.2	DELETE AND REPLACE
E-606.2	DELETE AND REPLACE
E-607.2	DELETE AND REPLACE
E-608.2	DELETE AND REPLACE
1-E-601	DELETE AND REPLACE
T-SERIES DRAWINGS	
TF001.2	DELETE AND REPLACE
TF002.2	DELETE AND REPLACE
TD101.2	ADD
TD1M1.2	DELETE AND REPLACE
TD1T1.2	DELETE AND REPLACE
TD1U1.2	DELETE
TD1Z1.2	ADD
TF101.2	DELETE AND REPLACE

TF1M1.2	DELETE AND REPLACE
TF1T1.2	DELETE AND REPLACE
TF1W1.2	DELETE AND REPLACE
TF1X1.2	DELETE AND REPLACE
TF1Z1.2	DELETE AND REPLACE
TF102.2	DELETE AND REPLACE
TF1Z2.2	DELETE AND REPLACE
TF2M1.2	DELETE AND REPLACE
TF2W1.2	DELETE AND REPLACE
TF2X1.2	DELETE AND REPLACE
TF2Z1.2	DELETE AND REPLACE
TF2W2.2	DELETE AND REPLACE
T307.2	DELETE AND REPLACE
T405.2	DELETE AND REPLACE
T406.2	DELETE AND REPLACE
T500.2	DELETE AND REPLACE
1-TD101	DELETE AND REPLACE
1-TF101	DELETE AND REPLACE
2-TF203	DELETE AND REPLACE
1-T300	DELETE AND REPLACE
1-T500	DELETE AND REPLACE
1-T501	DELETE AND REPLACE

END OF ADDENDUM 1

A Delta Group Company
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Surrey, BC, CANADA V3S 1C7
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Toll Free: +1 800-335-8221

MSD TRANSPORTATION BUILDING
BUILDING AUTOMATION CONTROL SYSTEM
DELTA CONTROLS PROJECT NUMBER
PAS1976-SRV2245

, -

OWNER	M.E.P. ENGINEERS
, -	, -
ARCHITECT	**MECHANICAL CONTRACTOR**
, -	, -

PROJECT TITLE: MSD TRANSPORTATION BUILDING		A Delta Group Company	DRAWING TITLE: TABLE OF CONTENTS
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022 Ver. 4.8.0		DRAWING NUMBER: DWG 00.00

INSTALLATION STANDARDS - LEGEND

TAG	DESCRIPTION
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
ALM	ALARM
AO	ANALOG OUTPUT
BI	BINARY INPUT
BO	BINARY OUTPUT
BYP	BYPASS
C	START/STOP
CC	COOLING COIL
CFM	AIRFLOW
CIC	CONTROLS INSTALLATION CONTRACTOR
CO2	CARBON DIOXIDE SENSOR
DA	DISCHARGE AIR
DPR	DAMPER
EA	EXHAUST AIR
ERU	ENERGY RECOVERY UNIT
ES	ENDSWITCH
EW	HEAT WHEEL
FPB	FAN POWERED BOX
FPP	FREEZE PROTECTION
H	HUMIDITY
HL	HIGH LIMIT
HTG	HEATING
LL	LOW LIMIT
LT	LOW TEMPERATURE

TAG	DESCRIPTION
MA	MIXED AIR
MOA	MINIMUM OUTSIDE AIR
O	SPEED
OA	OUTSIDE AIR
OAH	OUTSIDE AIR HUMIDITY
OAT	OUTSIDE AIR TEMPERATURE
OCC	OCCUPANCY
PH	PREHEAT
PLG	PANEL LIGHT GREEN
PLR	PANEL LIGHT RED
RA	RETURN AIR
RE-#	RELAY
RF	RETURN FAN
S	STATUS
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SP	STATIC PRESSURE
T	TEMPERATURE
TCC	TEMPERATURE CONTROL CONTRACTOR
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VLV	VALVE
ZN	ZONE

NAMING STRUCTURE PROCESS FLOW

DEVICE TAGS ARE ABBREVIATIONS USED TO CORRELATE AN OBJECT ON THE FLOW DIAGRAM TO A POINT ON THE CONTROLLER I/O WIRING DIAGRAM. THE SHAPE SURROUNDING THE ABBREVIATION DENOTES ITS I/O FUNCTION.

OUTPUT
RE-1

INPUT
TTE-1

NETWORK
BACNET-1

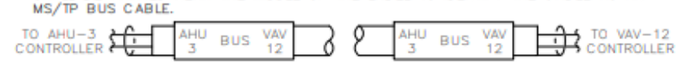
MATERIAL
V-1

PROJECT TITLE: MSD TRANSPORTATION BUILDING		Delta CONTROLS A Delta Group Company	DRAWING TITLE: INSTALLATION STANDARDS - LEGEND
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022 Ver. 4.8.0		DRAWING NUMBER: DWG 00.01

INSTALLATION STANDARDS - ELECTRICAL

MS/TP BUS CABLE LABELING

1. THE LABELING SHOWN BELOW SHALL BE PROVIDED ON ALL MS/TP BUS CABLES RUNNING FROM ONE CONTROL PANEL TO ANOTHER, OR FROM A CONTROLLER TO A SPACE TEMPERATURE SENSOR. MS/TP BUS CABLES CONNECTING CONTROLLERS WITHIN A SINGLE CONTROL PANEL SHALL NOT BE LABELED.
   - ON CABLES RUNNING BETWEEN CONTROL PANELS: EACH LABEL SHALL INDICATE THE NAMES OF THE CONTROLLERS CONNECTED AT EACH END OF THE CABLE. THE NAME PRINTED ON THE LEFT SIDE OF THE LABEL SHALL BE THE NAME OF THE CONTROLLER CONNECTED TO THE LEFT END OF THE CABLE & VICE-VERSA (SEE EXAMPLE BELOW). THE WORD "BUS" SHALL BE PRINTED NEAR THE MIDDLE OF THE LABEL TO IDENTIFY THE CABLE AS AN MS/TP BUS CABLE.



   - ON CABLES RUNNING TO SPACE TEMPERATURE SENSORS: EACH LABEL SHALL INDICATE THE NAME OF THE CONTROLLER ON THE RIGHT SIDE AND THE LETTERS "ST" ON THE LEFT SIDE. THE CABLE SHALL BE INSTALLED AS SHOWN BELOW. THE WORD "BUS" SHALL BE PRINTED NEAR THE MIDDLE OF THE LABEL TO IDENTIFY THE CABLE AS AN MS/TP BUS CABLE.

2. EACH LABEL SHALL BE MADE OF TRANSPARENT VINYL FILM BACKED WITH AN ACRYLIC, PRESSURE-SENSITIVE ADHESIVE. THE LABEL MATERIAL SHALL BE OIL & SOLVENT RESISTANT WITH GOOD CONFORMABILITY & FLEXIBILITY. THE MEANS OF PRINTING ON THE LABEL SHALL RESULT IN A CLEARLY LEGIBLE, PERMANENT MARKING. LABELS SHALL REMAIN INTACT & CLEARLY LEGIBLE WHEN SUBJECTED TO ULTRAVIOLET LIGHT, EXTREME HUMIDITY & SURFACE TEMPERATURES FROM -40° F TO 150° F (-40° C TO 66° C).
3. EACH CABLE SHALL BE IDENTIFIED WITH (2) LABELS. A LABEL SHALL BE LOCATED WITHIN 18" OF EACH END OF THE CABLE & SHALL BE VISIBLE WITHIN THE CONTROL ENCLOSURE. THE SAME NOTATION THAT APPEARS ON THE LABEL SHALL BE MARKED ON THE COVER OF EACH JUNCTION BOX THAT THE CABLE PASSES THROUGH.

WIRING TERMINATION LEGEND - PANEL

[#] = VDC TERMINATION AT CONTROL PANEL
[L##] = VAC TERMINATION AT CONTROL PANEL
1## = 120-460VAC INTRA-PANEL TERMINATION
2##, 4## = 24VAC INTRA-PANEL TERMINATION
3##, 5## = 24VDC INTRA-PANEL TERMINATION

WIRING TERMINATION LEGEND - BACNet ID

XX ## (NOTE: LEADING ZEROS NOT USED)
INSTANCE NUMBER: FROM PANEL I/O = PHYSICAL CONNECTION NUMBER
N* INSTANCE NUMBER INDICATES A NETWORK (SOFTWARE) POINT
I/O TYPE: AI=ANALOG INPUT, BI=BINARY INPUT, MI=MULTISTATE INPUT
AO=ANALOG OUTPUT, BO=BINARY OUTPUT
DEVICE BASIC ADDRESS FROM SWITCH
DEVICE BACNET ADDRESS = DEVICE SWITCH ADDRESS * DEVICE TYPE FACTOR
DEVICE TYPE: = AREA (FACTOR = 10000)
= SYSTEM (FACTOR = 100)
= SUBLAN (FACTOR = 1)
= LINKNET DEVICE (BACNET ADDRESS USES HOSTPANEL_ID)

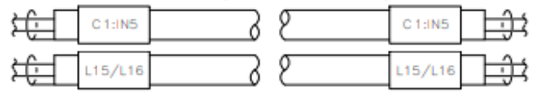
EXAMPLES:
AREA DEVICE # 3, BINARY INPUT NUMBER 4: [BACNET ADDRESS = 30000.BI4]
LINKNET DEVICE # 2, BINARY INPUT NUMBER 3: [BACNET ADDRESS = HOSTPANEL_ID.BI203]

INPUT / OUTPUT WIRING STANDARDS

1. ALL I/O CABLE SHALL MEET THE FOLLOWING SPECIFICATIONS:
   - STRANDED 18 GAUGE, TWISTED/SHIELDED-PAIR COPPER WIRE WITH 300 VOLT INSULATION
2. PLENUM-RATED CABLE SHALL BE USED WHERE REQUIRED BY LOCAL OR NATIONAL CODES.
3. I/O WIRING SHALL NOT BE RUN IN THE SAME CONDUIT AS A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
4. WITHIN ANY CONTROL PANEL:
   - I/O WIRING SHALL NOT CROSS OVER A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
   - I/O WIRING SHALL NOT BE RUN IN THE SAME CABLE GROUP AS A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
5. ONLY SHIELDED 24 VAC POWER WIRING SHALL BE ALLOWED TO CROSS OVER, RUN IN THE SAME CONDUIT, OR RUN IN THE SAME CABLE GROUP AS I/O WIRING.
6. WHERE UNAVOIDABLE, I/O WIRING MAY BE LOCATED NO CLOSER THAN 6" AND SHOULD BE LOCATED AS FAR APART AS POSSIBLE FROM POWER WIRING CARRYING MORE THAN 24 VOLTS. AVOID RUNNING PARALLEL TO POWER WIRING ANY FURTHER THAN NECESSARY, CROSS POWER WIRING AT 90 DEGREE ANGLES ONLY IF REQUIRED.
7. SHIELDS ON INPUT AND OUTPUT WIRING TO BE GROUNDED AT PANEL (OR CONTROLLER) LOCATION ONLY. THEY SHOULD BE TIED TO A TRUE EARTH GROUND.
8. STRIP ONLY ENOUGH CABLE BACK TO ALLOW TERMINATION OF SHIELD AND WIRE.

INPUT / OUTPUT CABLE LABELING

1. THE LABELING SHOWN BELOW SHALL BE PROVIDED ON ALL I/O WIRING TO & FROM CONTROLLERS AND FIELD DEVICES. I/O WIRING CONTAINED WITHIN A CONTROL PANEL SHALL NOT BE LABELED. EACH LABEL SHALL INDICATE THE I/O WIRING TERMINATION AS SHOWN ON THE TEMPERATURE CONTROL DRAWINGS (SEE EXAMPLES BELOW).



2. EACH LABEL SHALL BE MADE OF TRANSPARENT VINYL FILM BACKED WITH AN ACRYLIC, PRESSURE-SENSITIVE ADHESIVE. THE LABEL MATERIAL SHALL BE OIL & SOLVENT RESISTANT WITH GOOD CONFORMABILITY & FLEXIBILITY. THE MEANS OF PRINTING ON THE LABEL SHALL RESULT IN A CLEARLY LEGIBLE, PERMANENT MARKING. LABELS SHALL REMAIN INTACT & CLEARLY LEGIBLE WHEN SUBJECTED TO ULTRAVIOLET LIGHT, EXTREME HUMIDITY & SURFACE TEMPERATURES FROM -40° F TO 150° F (-40° C TO 66° C).
3. EACH CABLE SHALL BE IDENTIFIED WITH (2) LABELS. A LABEL SHALL BE LOCATED WITHIN 18" OF EACH END OF THE CABLE & SHALL BE VISIBLE AT THE CONTROL PANEL OR FIELD DEVICE. THE SAME NOTATION THAT APPEARS ON THE LABEL SHALL BE MARKED ON THE COVER OF EACH JUNCTION BOX THAT THE CABLE PASSES THROUGH.

GENERAL ELECTRICAL STANDARDS

1. ALL CURRENT SENSING DEVICES SHALL HAVE THE POWER WIRE LOOPED THROUGH THE SENSOR MULTIPLE TIMES, IF NECESSARY, TO PROVIDE AN AMPERAGE THAT IS WELL WITHIN THE RANGE OF THE SENSOR (REFER TO MANUFACTURER'S LITERATURE FOR AMPERAGE RANGE).
2. ALL FIELD WIRING TO TERMINAL STRIPS IN CONTROL PANELS SHALL BE TERMINATED AT THE OUTERMOST TERMINALS. INNER TERMINALS OF TERMINAL STRIPS ARE RESERVED FOR INTERNAL WIRING TERMINATIONS.
3. 120 VAC POWER WIRING SHALL ENTER ANY CONTROL PANEL AT THE UPPER RIGHT CORNER UNLESS OTHERWISE INDICATED.
4. 240 VAC POWER WIRING SHALL ENTER ANY CONTROL PANEL AT THE LOWER LEFT CORNER UNLESS OTHERWISE INDICATED.
5. THE GROUND WIRE CONNECTED TO ANY CONTROL PANEL MUST BE A CONTINUOUS CONDUCTOR BACK TO THE GROUND CONNECTION AT THE BREAKER PANEL. GROUNDING TO BUILDING STEEL IS NOT ACCEPTABLE.
6. ALL JUMPER & DIP SWITCH CONFIGURATIONS SHOWN ON THE TEMPERATURE CONTROL DRAWINGS SHALL BE SET BY THE INSTALLER. IF NO SPECIFIC CONFIGURATION IS SHOWN FOR A DEVICE, NO CHANGE SHALL BE MADE TO THE DEFAULT SETTINGS.
7. ALL FIELD WIRING THAT DIFFERS FROM THE WIRING SHOWN ON THE TEMPERATURE CONTROL DRAWINGS SHALL BE NOTED ON THE DRAWINGS (BY THE INSTALLER) WITH RED INK OR PENCIL. THE COMPLETE SET OF NOTED DRAWINGS SHALL BE PROVIDED TO THE PROJECT MANAGER UPON COMPLETION OF THE PROJECT OR SOONER UPON REQUEST.

ELECTRICAL NOTES

- ALL CONTROL DEVICES & WIRING SHALL BE INSTALLED IN ACCORDANCE WITH: MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND INSTALLATION STANDARDS PROVIDED ON THE "INSTALLATION STANDARDS" SHEET.
- THESE DRAWINGS PROVIDE SCHEMATIC REPRESENTATIONS OF EQUIPMENT & FIELD DEVICES BASED ON THE BID PROPOSAL. ACTUAL INSTALLATION OF ALL CONTROL DEVICES IS SUBJECT TO FIELD VERIFICATION. ANY CHANGES THAT MAY RESULT IN A DEVIATION FROM THE GENERAL INTENT OF THE CONTROL SYSTEM DESIGN SHALL BE APPROVED BY THE DESIGNER PRIOR TO INSTALLATION.
- FIELD VERIFICATION OF WIRING TERMINATIONS REQUIRED.

- GROUND CIRCUIT MUST BE A CONTINUOUS PATH BACK TO THE BREAKER PANEL.
- ELECTRICAL NOTE: CONTROLLER GROUND CONNECTION MUST BE A COMPLETE PATH BACK TO BREAKER PANEL.

- REMOVE SHUNT JUMPER IF SHIELD IS GROUNDED DIRECTLY AT ANY OTHER POINT OR SHUNT IS INSTALLED AT OTHER END OF NETWORK.
- ADP-45-MSTP-TB-Y AND ADP-45-MSTP-Y BOARDS MAY BE FLUSH MOUNTED ONTO METAL PANELBOARDS WITHOUT AN INSULATOR BETWEEN THE TWO.
- FIELD DEVICES SHOULD ONLY BE GROUNDED IN THE CONTROL PANEL. DO NOT GROUND I/O WIRING IN BOTH THE FIELD AND THE PANEL.
- THESE DRAWINGS PROVIDE SCHEMATIC REPRESENTATIONS OF EQUIPMENT & FIELD DEVICES BASED ON THE CHILDREN'S EDUCATION ADDITION PROPOSAL. ACTUAL INSTALLATION OF ALL CONTROL DEVICES IS SUBJECT TO FIELD VERIFICATION. ANY CHANGES THAT MAY RESULT IN A DEVIATION FROM THE GENERAL INTENT OF THE CONTROL SYSTEM DESIGN SHALL BE APPROVED BY THE DESIGNER PRIOR TO INSTALLATION.
- SEE FIELD DEVICE TERMINATION DETAIL SHEET(S) FOR POINT WIRING REQUIREMENTS.

FROM BAPI:

- BAPI recommends using twisted pair of at least 22AWG and sealant filled connectors for all wire connections. Larger gauge wire may be required for long runs. All wiring must comply with the National Electric Code (NEC) and local codes.
Do NOT run this device's wiring in the same conduit as AC power wiring of NEC class 1, NEC class 2, NEC class 3 or with wiring used to supply highly inductive loads such as motors, contactors and relays. BAPI's tests show that fluctuating and inaccurate signal levels are possible when AC power wiring is present in the same conduit as the signal lines. If you are experiencing any of these difficulties, please contact your BAPI representative.

Cable Requirements:

	Cable Type	Equal to	Max Cable Length	Wiring Precautions
RS-485 Network	22-24 AWG twisted pair, shielded, jacketed communication cable	Belden 9841, 82841	4000 ft (1220 m)	- Braided or Aluminum foil shield, Impedence 100-200 Ω, Capacitance 17 pF/ft or less. - Use for BACnet MS/TP, LINKNet, V2 Subnet, MODBUS-RTU
Ethernet	10/100 Base T, Cat5e, Cat6		no limit (w/ switches)	Follow IEEE 802.3 standards
Fiber Optic	Grade 3 (62.5/125㎛) / Grade 4 (50/125µ), min 2 fiber, Multimode, SC connector	Belden FDxM006P0	1000 ft (550 m) for Gigabit Ethernet	Suggest 4 or more fibers for redundancy in case of damage
10k Ω / Dry Contact Input	2 conductor 18 AWG	Belden 8461NH	3900 ft (1200 m)	Ground only at controller input GND terminal
	2 conductor 22 AWG	Belden 88442	1500 ft (450 m)	Ground only at controller input GND terminal
5 V Input	2 conductor 22 AWG shielded	Belden 83552	100 ft (30 m)	Keep Cable Short Use dedicated shielded cable
	2 conductor 20 AWG shielded	Belden 83602	330 ft (100m) w 20 kΩ load resistor	
	3 conductor 20 AWG shielded	Belden 8772		

Cable Requirements:

	Cable Type	Equal to	Max Cable Length	Wiring Precautions
10 V Input	3 conductor 18 AWG unshielded	Belden 88870	330 ft (100 m)	
4-20 mA Input	2 conductor 18 AWG unshielded	Belden 8461NH	3300 ft (1000 m)	
	4 conductor 18 AWG unshielded	Belden 88489		
Digital Input	2 conductor 18 AWG	Belden 8461NH	3900 ft (1200 m)	
	2 conductor 22 AWG	Belden 88442	1500 ft (450 m)	
RTD Input	2 conductor 18 AWG	Belden 8461NH	No practical limit	Ground only at controller input GND terminal
	2 conductor 22 AWG	Belden 88442		
Analog 0-10 VDC Output	2 conductor 18 AWG unshielded	Belden 8461NH	330 ft (100 m)	
Analog 4-20 mA Output	2 conductor 18 AWG unshielded	Belden 8461NH	Depends upon impedence	ft = 1000 (500 - end dev imp) / 12.8 m = 1000 (500 - end dev imp) / 42
Binary Triac Output	2 conductor 18 AWG unshielded	Belden 8461NH	330 ft (100 m)	min turn-on current = 25 mA
Binary SS Relay Output	2 conductor 18 AWG unshielded	Belden 8461NH	330 ft (100 m)	No min turn-on current, Max External Voltages: 28 VAC, 28 VDC
Binary Relay Output	2 conductor 18 AWG unshielded	Belden 8461NH	330 ft (100 m)	Max External Voltages: 28 VAC, 28 VDC

PROJECT TITLE: MSD TRANSPORTATION BUILDING		DRAWING TITLE: INSTALLATION STANDARDS - ELECTRICAL
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022 Ver. 4.8.0	DRAWING NUMBER: DWG 00.02

Delta CONTROLS™ A Delta Group Company

INSTALLATION STANDARDS - NETWORK

BACNET MS/TP (RS-485) BUS STANDARDS

1. THE MS/TP BUS SHIELD MUST BE KEPT SEPARATE FROM OTHER SHIELDS & MUST NOT BE GROUNDED. THE MS/TP BUS SHIELD SHALL BE PROTECTED FROM CONTACTING ANY SURFACE OTHER THAN THE TERMINATION BLOCK.
2. SPLICES IN MS/TP BUS WIRING ARE NOT ACCEPTABLE. MS/TP BUS WIRING SHALL BE TERMINATED ONLY AT A CONTROLLER, REPEATER, OR TRM-768: RS-485 LAN TERMINATOR.
3. THE BLACK WIRE IN AN MS/TP BUS CABLE SHALL ALWAYS BE CONNECTED TO THE (-) BUS TERMINAL ON THE DEVICE AT EACH END OF THE CABLE.
4. ALL 2-CONDUCTOR MS/TP BUS CABLE SHALL MEET THE FOLLOWING SPECIFICATIONS:
   - 22-24 GAUGE, SINGLE TWISTED-PAIR, TINNED, SHIELDED COPPER WIRE WITH GREEN JACKET
   - NOMINAL IMPEDANCE = 100-120 OHMS BETWEEN CONDUCTORS
   - CAPACITANCE < OR = TO 17 pF/FT BETWEEN GROUNDED CONDUCTOR & NEXT CONDUCTOR
   - ACCEPTABLE CABLE = BELDEN 9841, 82841 OR WINDY CITY WIRE 42002-S. (PLENUM-RATED)

   APPROVAL OF EQUIVALENT CABLE IS REQUIRED PRIOR TO INSTALLATION
5. PLENUM-RATED CABLE SHALL BE USED WHERE REQUIRED BY LOCAL OR NATIONAL CODES.
6. MS/TP BUS WIRING SHALL NOT BE RUN IN THE SAME CONDUIT AS A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
7. WITHIN ANY CONTROL PANEL:
   - MS/TP BUS WIRING SHALL NOT CROSS OVER A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
   - MS/TP BUS WIRING SHALL NOT BE RUN IN THE SAME CABLE GROUP AS A.C. POWER WIRING THAT CARRIES MORE THAN 24 VOLTS.
8. ONLY SHIELDED 24 VAC POWER WIRING SHALL BE ALLOWED TO CROSS OVER, RUN IN THE SAME CONDUIT, OR RUN IN THE SAME CABLE GROUP AS MS/TP BUS WIRING.

BACNET MS/TP (RS-485) BUS NOTES

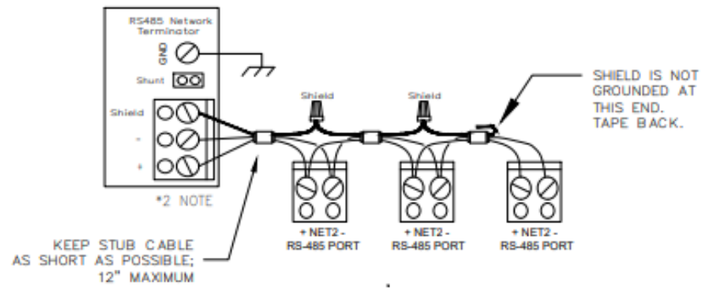
- EACH SEGMENT OF THE DZNT COMMUNICATION BUS CAN HAVE UP TO 50 DEVICES AND 2,000' TOTAL CAT5 CABLE LENGTH (COMBINED DISTANCE BETWEEN TERMINATION BOARDS AND FROM TERMINATION BOARD TO DZNT-TO-VAV (THE WALL MOUNTED DEVICE)) TO A MAXIMUM OF 99 DEVICES TOTAL.
- TOTAL NETWORK LENGTH IS DETERMINED BY SUM OF CABLE LENGTHS BETWEEN TERMINATION BOARDS, PLUS THE SUM OF THE DROP CABLES BETWEEN TERMINATION BOARD AND THERMOSTAT.
- IF ONLY 1 SEGMENT IS REQUIRED, AN ADP45-MSTP-TB-Y MAY BE USED INSTEAD OF AN ADP45-MSTP-Y.
- THERE IS NO HARD LIMIT TO THE NUMBER OF BRANCHES CREATED BY ADP45-MSTP-Y CONNECTORS, PROVIDED TOTAL OF ALL BRANCHES IS WITHIN THE LENGTH AND DEVICE LIMIT FOR THE SEGMENT. DAISY CHAIN STRUCTURE IS MAINTAINED DUE TO THE DESIGN OF THE CABLING SYSTEM.
- AFTER SPLITTING A NETWORK INTO TWO (2) BRANCHES, DO NOT RECOMBINE TO A SINGLE BRANCH AT THE OPPOSITE END OR NETWORK PROBLEMS WILL OCCUR.
- LOOPBACK TERMINATION, ADP45-MSTP-ENDLOOP, MUST BE USED AT THE END OF EACH NETWORK BRANCH OR SEGMENT. NETWORK WILL CONTINUE TO FUNCTION IF ON LOOPBACK OR DEVICE IS REMOVED FROM THE NETWORK BUT DEVICES WILL DROP OFF THE NETWORK BETWEEN ANY TWO (2) REMOVED DZNT-TO-VAV OR ADP45-MSTP-LOOP.
- 12" LENGTH OF NETWORK CABLE ATTACHED TO THE ADP45-MSTP-TB-Y IS MAXIMUM ALLOWED. TERMINATE GROUND LEAD TO GND ON THE CONTROLLER TO MAINTAIN NETWORK INTEGRITY.
- CABLING IS DESIGNED TO USE STANDARD STRAIGHT-THROUGH UNSHIELDED TWISTED PAIR (UTP) CAT3 OR HIGHER CABLES (CAT5, CAT5e, CAT6) TO CONNECT BOXES TO BOXES, AND INDIVIDUAL BOXES TO THEIR THERMOSTATS.
- CABLING IS DESIGNED TO MAINTAIN THE REQUIRED DAISY-CHAIN CONFIGURATION EVEN WITH THE USE OF NETWORK Y's.

- DO NOT EXCEED (64) NODES ON A NETWORK SEGMENT. THERE IS A MAXIMUM OF 99 NOTES ALLOWED ON A SINGLE MS/TP NETWORK. ANY MORE THAN (64) NODES ON A NETWORK REQUIRES THE USE OF A REPEATER!
- DO NOT EXCEED 4,000 FEET (1,220 m) TOTAL LENGTH ON ANY SINGLE TWISTED PAIR RS-485 NETWORK SEGMENT.
- DO NOT EXCEED 2,000 FEET (610 m) TOTAL LENGTH ON ANY SINGLE CAT5 RS-485 NETWORK SEGMENT.
- DO NOT EXCEED (3) NODES ON A SINGLE LINKNET SEGMENT.
- DO NOT EXCEED 100 FEET (30 m) TOTAL LENGTH ON ANY SINGLE LINKNET NETWORK.
- SHIELD FOR MS/TP BUS MUST BE KEPT SEPARATE FROM OTHER SHIELDS AND FROM GROUND TERMINATIONS.
- MS/TP BUS SHIELD MUST BE TIED THROUGH EACH NODE TO MAKE A CONTINUOUS SHIELD THAT RUNS THE ENTIRE LENGTH OF THE RS-485 SEGMENT. DO NOT CONNECT THE SHIELD TO GROUND AT THE NODE.
- PROTECT FROM CONTACT WITH ANY SURFACE OTHER THAN THE TRM-768 TERMINAL BOARD OR DNZR-768 REPEATER.
- COMMUNICATION WIRING MUST NOT BE SPLICED. ALL TERMINATIONS MUST OCCUR AT CONTROLLERS UNLESS SPECIFICALLY NOTED OTHERWISE.
- BLACK COMMUNICATION WIRE SHALL ALWAYS BE CONNECTED TO (-) TERMINAL AT ALL CONTROLLERS.
- REFER TO "INSTALLATION STANDARDS" SHEET FOR ACCEPTABLE CABLE SPECIFICATIONS AND WIRING PRACTICES.
- ALL DEVICES CONNECTED TO THE MS/TP NETWORK MUST BE PROPERLY GROUNDED.
- ALL DEVICES ON THE NETWORK MUST RUN AT THE SAME BAUD RATE.

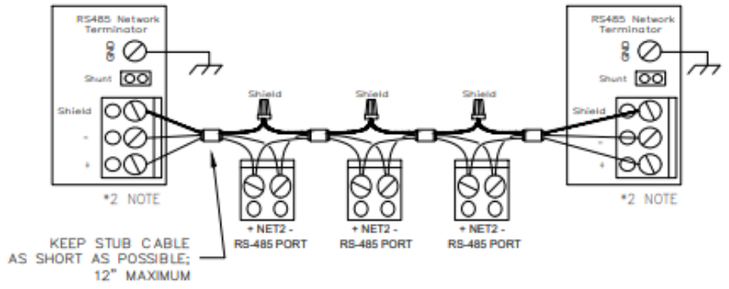
- THE LAYOUTS REPRESENTED ARE EXAMPLES OF HOW THE NETWORK MAY BE CONFIGURED. THERE IS NO REQUIREMENT TO FOLLOW THESE PROPOSED LAYOUTS, OTHER THAN MAINTAINING THE GROUPING UNDER EACH SYSTEM CONTROLLER.
- EACH APPLICATION CONTROLLER ON A GIVEN MS/TP BUS (UNDER EACH SYSTEM CONTROLLER) MUST HAVE UNIQUE ADDRESSING SET VIA THE DIP SWITCHES.

BACNET MS/TP (RS-485) BUS TERMINATIONS

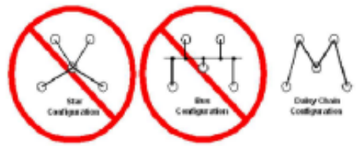
MS/TP TERMINATIONS USING ONE TRM-768 AND BUILT-IN TERMINATION



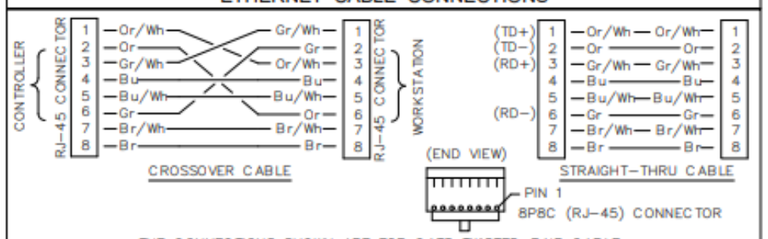
MS/TP TERMINATIONS USING TWO TRM-768s



ONLY A DAISY-CHAIN RS-485 MS/TP TOPOLOGY IS ALLOWED!



ETHERNET CABLE CONNECTIONS



- THE CONNECTIONS SHOWN ARE FOR CAT5 TWISTED-PAIR CABLE.

ETHERNET CABLE STANDARDS

1. ALL ETHERNET CABLE SHALL MEET THE FOLLOWING SPECIFICATIONS:
   - 10/100-BASE-T: 22 OR 24 AWG, (4) TWISTED-PAIR, SOLID COPPER WIRE (CAT-5 EQUIV.)
     MAX. SEGMENT LENGTH = 330 FT (100 m)
     MAX. NETWORK LENGTH = 2,000 FT (610 m)
   - 10/100-BASE-F: 62.5/125 MICRON CABLE
     MAX. SEGMENT LENGTH = 1,351 FT (412 m)
2. PLENUM-RATED CABLE SHALL BE USED WHERE REQUIRED BY LOCAL OR NATIONAL CODES.

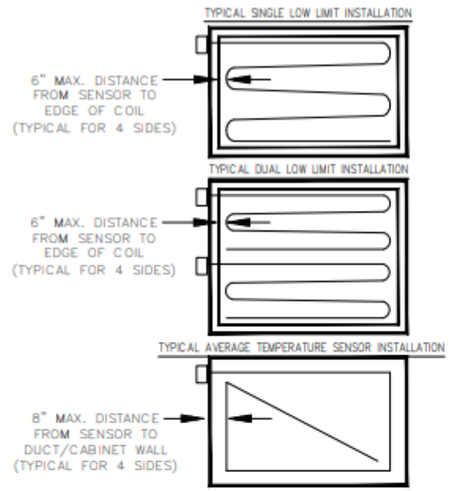
PROJECT TITLE: MSD TRANSPORTATION BUILDING		Delta CONTROLS A Delta Group Company	DRAWING TITLE: INSTALLATION STANDARDS - NETWORK
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022 Ver. 4.8.0		DRAWING NUMBER: DWG 00.03

INSTALLATION STANDARDS - MECHANICAL

GENERAL MECHANICAL STANDARDS

1. VALVE PORT DETAILS SHOWN ON THE TEMPERATURE CONTROL DRAWINGS DO NOT NECESSARILY INDICATE THE ACTUAL VALVE CONFIGURATION. REFER TO MANUFACTURER'S LITERATURE FOR ACTUAL VALVE PORT CONFIGURATION.
2. ALL LIQUID PRESSURE SENSORS SHALL BE INSTALLED ON VERTICAL PIPING OR BELOW THE CENTERLINE OF HORIZONTAL PIPING TO PREVENT AIR ENTRAPMENT AT THE SENSOR.

DUCT / COIL TEMPERATURE SENSOR INSTALLATION



- ALL SENSORS SHALL BE PROTECTED FROM DAMAGE AT THE POINT OF ENTRY INTO THE DUCT/CABINET. EACH SENSOR SHALL BE PROTECTED BY A RUBBER GROMMET, BUSHING, PLASTIC TUBING OR ELECTRICAL TAPE AT THE POINT OF ENTRY.
- ALL SENSORS SHALL BE SECURELY ANCHORED ALONG THE FULL LENGTH TO PREVENT DAMAGE CAUSED BY VIBRATION.

PNEUMATIC TERMINATION LEGEND

- # = PNEUMATIC SIGNAL TERMINATION AT CONTROL PANEL
- # = INTRA-PANEL PNEUMATIC SIGNAL TERMINATION
- S ## = SUPPLY AIR TERMINATION AT CONTROL PANEL (## = PSI)
- S ## = INTRA-PANEL SUPPLY AIR TERMINATION (## = PSI)

RED-LINE REQUIREMENTS

ALL SUBCONTRACTORS ARE REQUIRED TO SUBMIT DETAILED RED-LINE MODIFICATIONS TO THESE PRINTS FOR INCLUSION IN THE AS-BUILT SET. RED-LINES MUST INCLUDE BUT ARE NOT NECESSARILY LIMITED TO:

1. ACCURATE EQUIPMENT LOCATIONS INDICATED ON FLOOR PLANS, INCLUDING ROOF MOUNTED EQUIPMENT RELATIVE TO THE UPPERMOST FLOOR IF NO ROOF PLAN IS PROVIDED.
2. SENSOR LOCATIONS INDICATED ON FLOOR PLANS.
3. EXACT MS/TP AND ETHERNET BUS WIRING CONFIGURATION SHOWN ON FLOOR PLANS (WHEN PROVIDED) AS WELL AS IN TABLE FORMAT.
4. ALL WIRING AND EQUIPMENT CHANGES MADE ON ANY PORTION OF THE JOB.
5. FOR JOBS WITH NO FLOOR PLANS, ALL EQUIPMENT (INCLUDING SENSORS) WILL BE NOTED WITH ROOM NAME AND NUMBER.
6. ALL BACKUP BATTERY TABS ARE TO BE PULLED AT TIME OF CONTROLLER INSTALLATION.
7. ALL CONTROLLER SERIAL NUMBERS ARE TO BE RECORDED BY INSTALLING CONTRACTOR AT TIME OF INSTALLATION. THIS INFORMATION IS TO BE PASSED TO TEMPERATURE CONTROL SERVICES, LLC., AS THE JOB PROGRESSES.

MECHANICAL NOTES

- NOT ALL PANELS MAY CONTAIN THE TRM-768 END-OF-LINE TERMINATION BOARD. SEE CONTROLLER WIRING AND/OR SCHEDULE SHEETS FOR DETAILS.
- VAV CONTROLLERS MAY OPERATE IN A STAND-ALONE CONFIGURATION. HOWEVER, THIS PROJECT CALLS FOR BUS COMMUNICATION BETWEEN CONTROLLERS.
- FOR CLARITY, NOT ALL FACTORY PROVIDED ELECTRICAL WIRING AND COMPONENTS WHICH INTERFACE WITH THIRD-PARTY CONTROLLERS ARE SHOWN. FIELD VERIFICATION OF INSTALLED COMPONENTS AND WIRING CONNECTIONS REQUIRED!
- ZONE PRESSURE SENSOR LOCATED IN CONTROL PANEL.

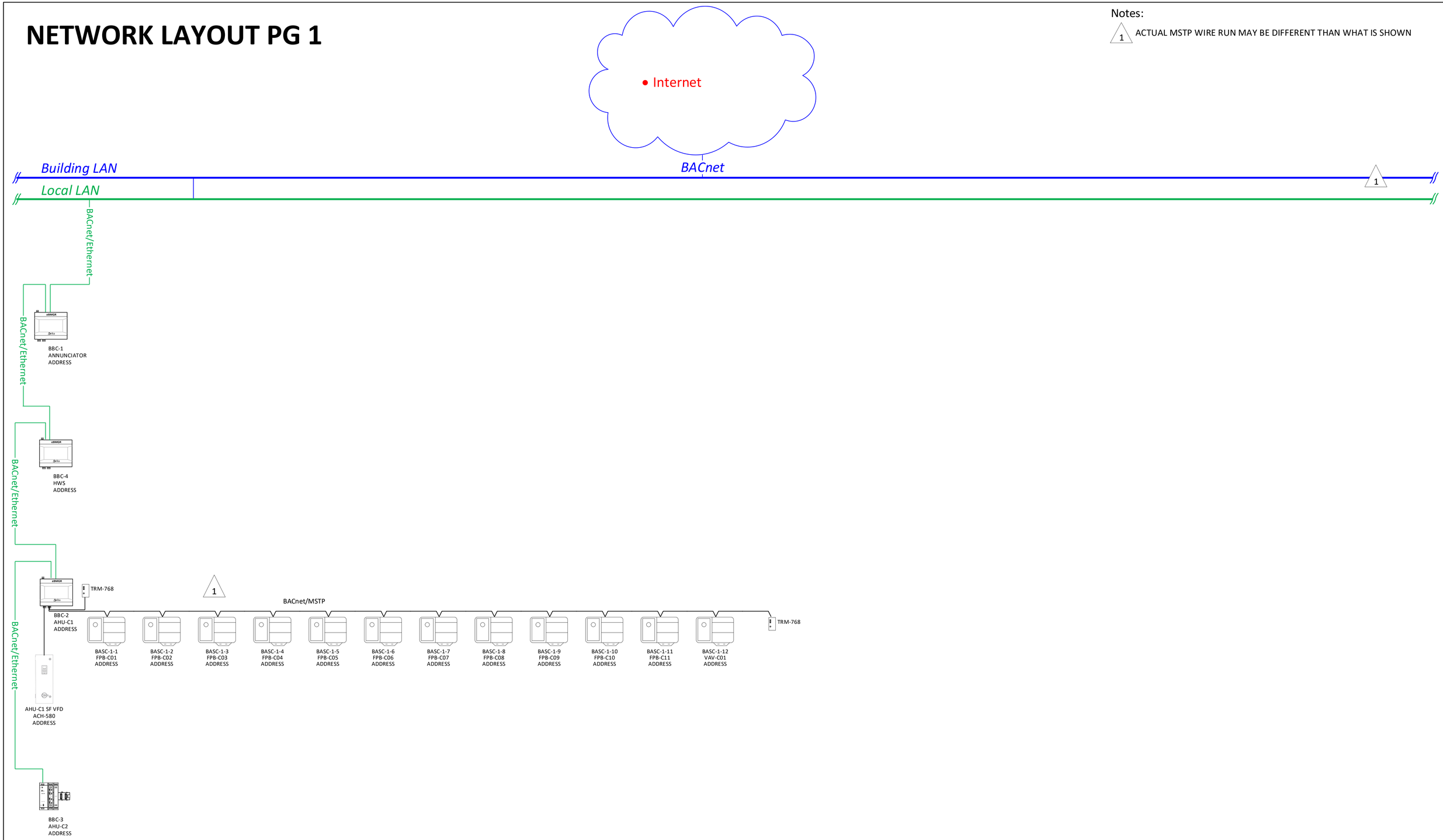
*- DX UNITS WILL BE CONTROLLED BY FACTORY-PROVIDED ZONE SENSOR, WIRED TO FACTORY SUPPLIED CONTROLLERS. WIRING TO BE INSTALLED BY OTHERS.

PROJECT TITLE: MSD TRANSPORTATION BUILDING		Delta CONTROLS A Delta Group Company	DRAWING TITLE: INSTALLATION STANDARDS - MECHANICAL
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022 Ver. 4.8.0		DRAWING NUMBER: DWG 00.04

NETWORK LAYOUT PG 1

Notes:

1 ACTUAL MSTP WIRE RUN MAY BE DIFFERENT THAN WHAT IS SHOWN



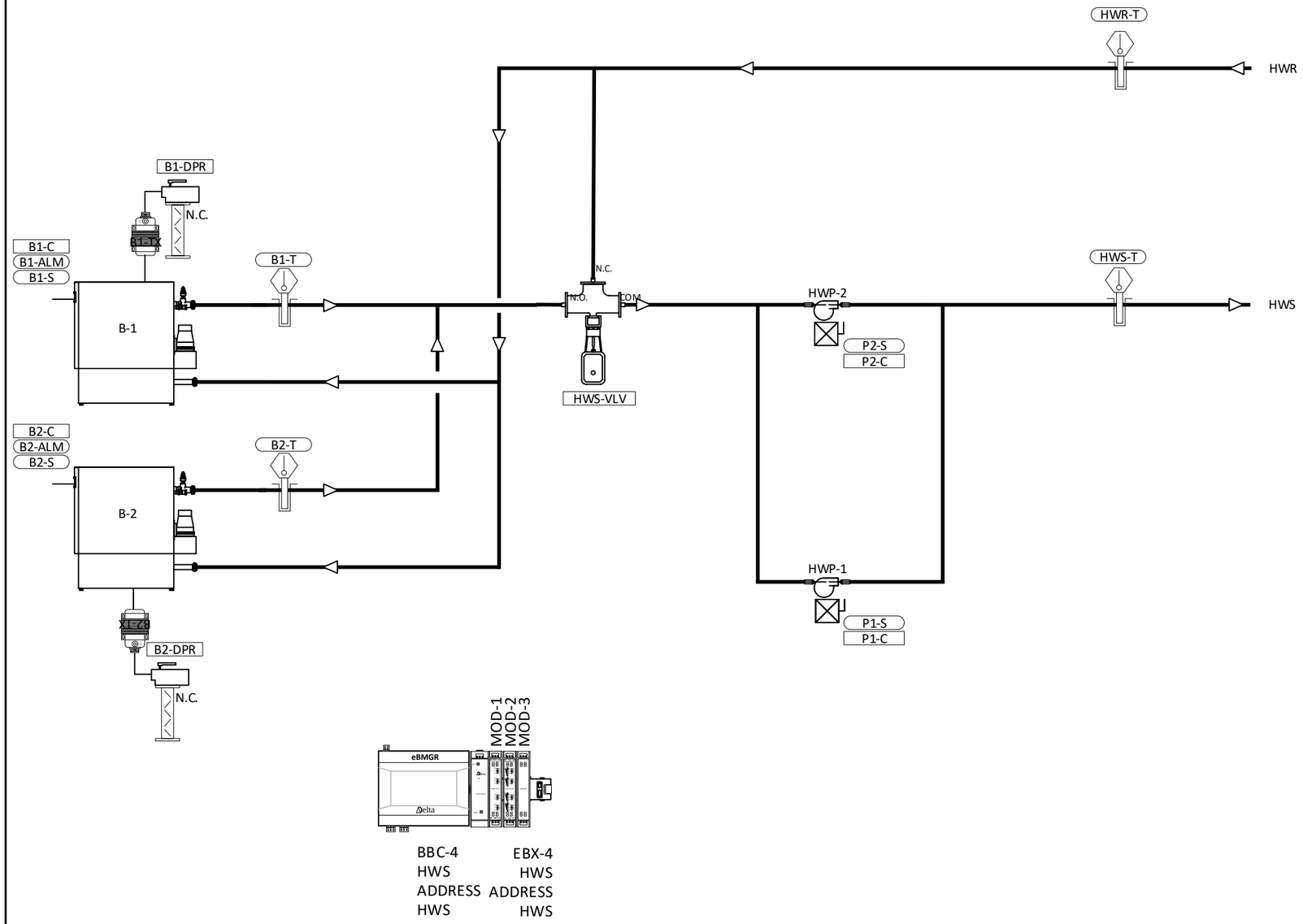
BILL OF MATERIALS				
DEVICE ID	VENDOR P/N	QTY	DESCRIPTION	MANUFACTURER
TRM-768,768	151924	2	151924 TRM768 NETWORK TERMINATOR (MS/TP)	DELTA CONTROLS PRODUCTS

PROJECT TITLE: MSD TRANSPORTATION BUILDING			DRAWING TITLE: NETWORK LAYOUT PG 1
PROJECT NUMBER: PAS1976-SRV2245	BY: KK		DRAWING NUMBER: DWG 01.00
	PRELIMINARY: 2		
	PRINTED 01/11/2022	Ver. 4.8.0	

Delta™ CONTROLS
A Delta Group Company

HWS FLOW

Notes:



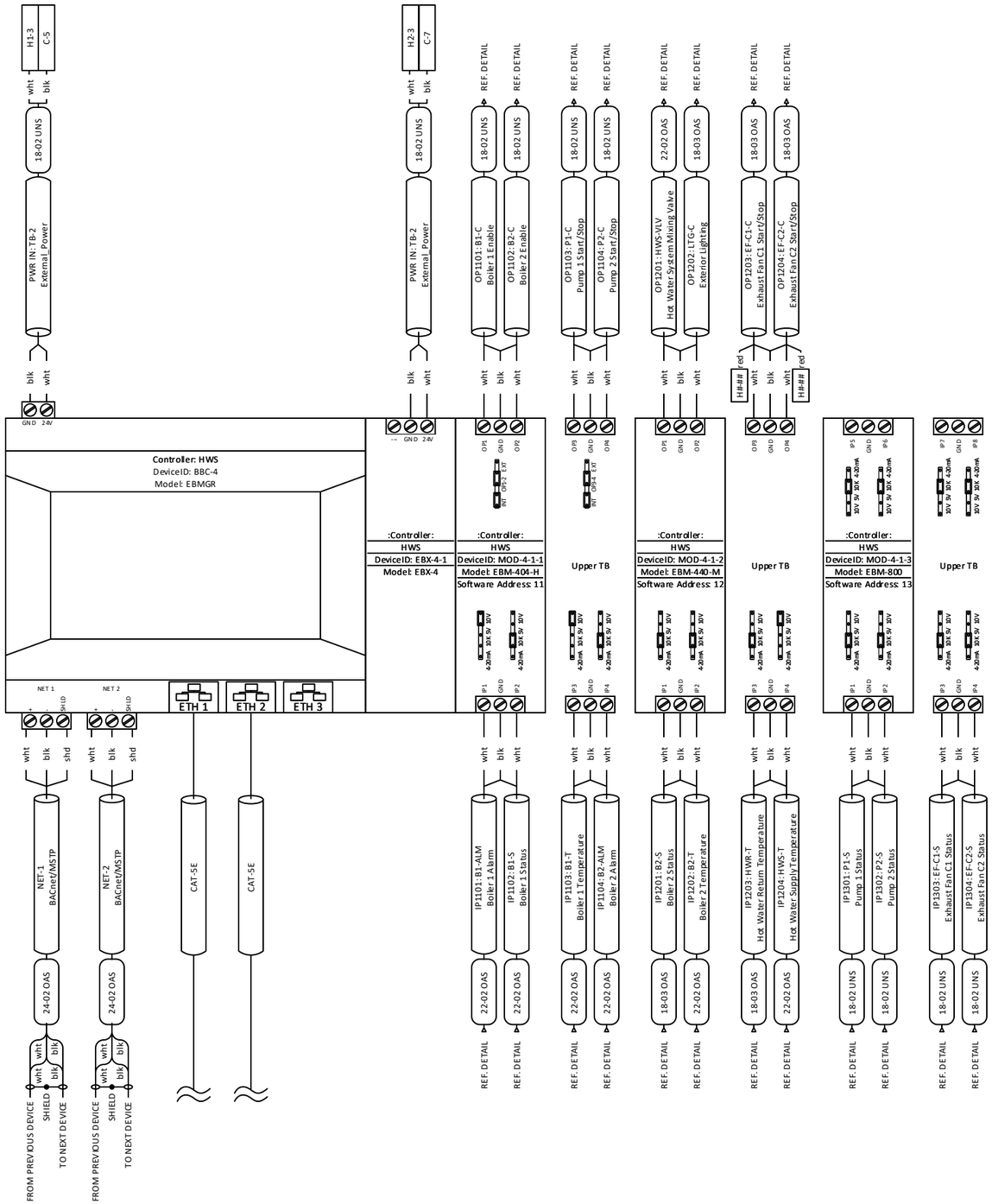
Point Summary					
Syste	Qty.	Typ.	Device ID	Point Name	Point Type
HW	1	1	B1-ALM	Boiler 1Alarm	BI
HW	1	1	B1-C	Boiler 1Enable	BO
HW	1	1	B1-DPR	Boiler 1Combustion Damper	HARDWIRE
HW	1	1	B1-S	Boiler 1Status	BI
HW	1	1	B1-T	Boiler 1Temperature	AI
HW	1	1	B1-TX	Boiler 1Damper Transformer	HARDWIRE
HW	1	1	B2-ALM	Boiler 2 Alarm	BI
HW	1	1	B2-C	Boiler 2 Enable	BO
HW	1	1	B2-DPR	Boiler 2 Combustion Damper	HARDWIRE
HW	1	1	B2-S	Boiler 2 Status	BI
HW	1	1	B2-T	Boiler 2 Temperature	AI
HW	1	1	B2-TX	Boiler 2 Damper Transformer	HARDWIRE
HW	1	1	HWR-T	Hot Water Return Temperature	AI
HW	1	1	HWS-T	Hot Water Supply Temperature	AI
HW	1	1	HWS-VLV	Hot Water System Mixing Valve	AO
HW	1	1	P1-C	Pump 1Start/Stop	BO
HW	1	1	P1-S	Pump 1Status	BI
HW	1	1	P2-C	Pump 2 Start/Stop	BO
HW	1	1	P2-S	Pump 2 Status	BI

Devices	Points	PointType
4	4	AI
1	1	AO
6	6	BI

BILL OF MATERIALS				
DEVICE ID	VENDOR P/N	QTY	DESCRIPTION	MANUFACTURER
B1-ALM,C,DPR,S,T,TX,B2-ALM,C,DPR,S,T,TX,HWR-T,HWS-T,VLV,P1-C,S,P2-C,S	*EXISTING	15	DEVICE EXISTING	
BBC-4	301604	1	301604 EBMGR-2 ENTELIBUS SYSTEM CONTROLLER	DELTA CONTROLS PRODUCTS
EBX-4	311601	1	311601EBX-04 ENTELIBUS EXPANDER BACKPLANE (4 SLOT	DELTA CONTROLS PRODUCTS
MOD-1	375604	1	375604 EBM-404-HENTELIBUS MODULE (4 UIS,4 BOS WIT	DELTA CONTROLS PRODUCTS
MOD-2	375601	1	375601EBM-440-M ENTELIBUS MODULE (4 UIS,4 AOS WIT	DELTA CONTROLS PRODUCTS
MOD-3	375606	1	375606 EBM-800 ENTELIBUS MODULE (8 UIS)	DELTA CONTROLS PRODUCTS

PROJECT TITLE: MSD TRANSPORTATION BUILDING		Delta CONTROLS A Delta Group Company	DRAWING TITLE: HWS FLOW
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022 Ver. 4.8.0		DRAWING NUMBER: DWG 05.00

HWS CONTROLLER IO I/O PG 1



PROJECT TITLE: MSD TRANSPORTATION BUILDING			DRAWING TITLE: HWS CONTROLLER IO I/O PG 1
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022	Ver. 4.8.0	DRAWING NUMBER: DWG 05.01

Delta CONTROLS — A Delta Group Company

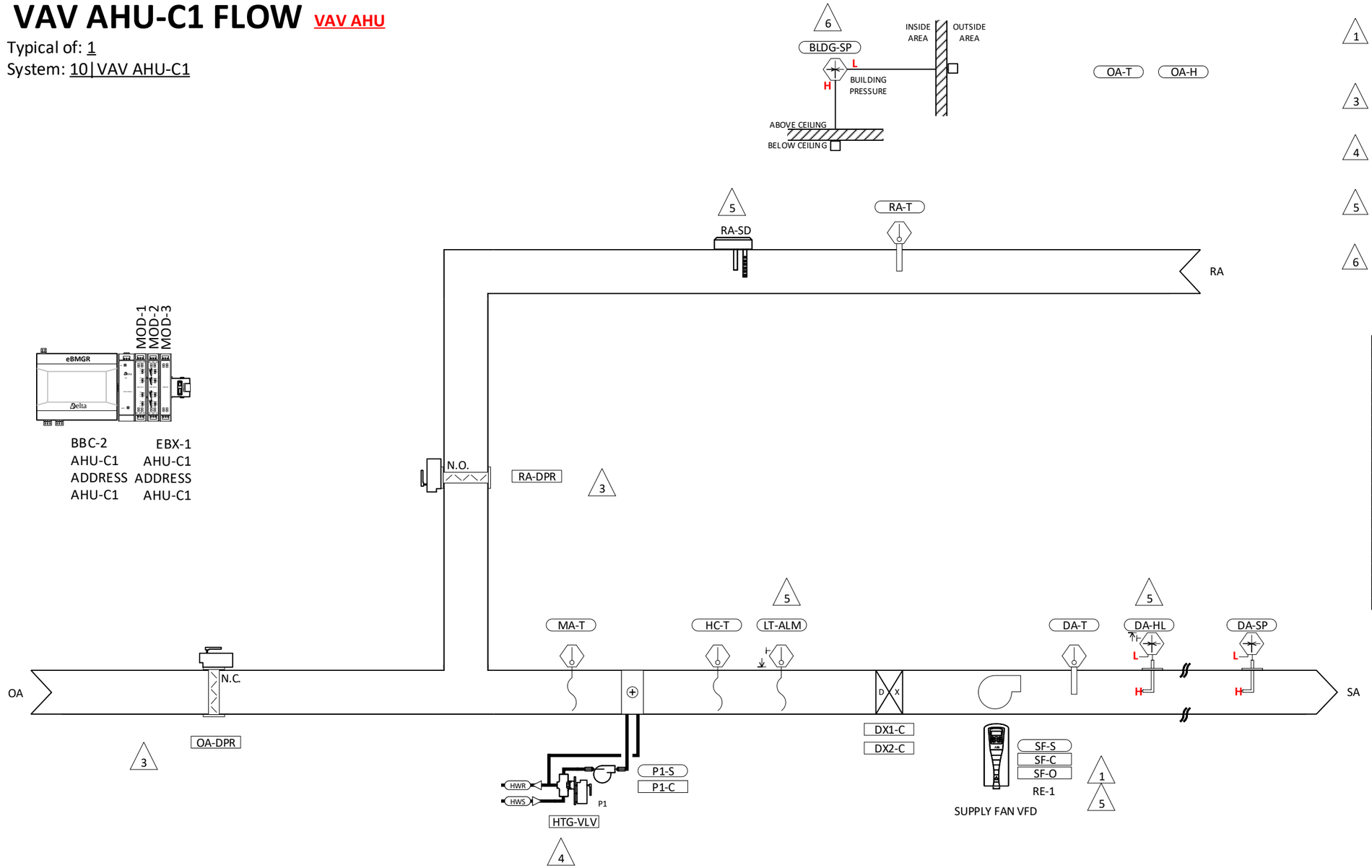
VAV AHU-C1 FLOW VAV AHU

Typical of: 1

System: 10|VAV AHU-C1

BBC-2 AHU-C1 ADDRESS AHU-C1

EBX-1 AHU-C1 ADDRESS AHU-C1



Notes:

1. NEW VFD REQUESTED BY CLIENT
3. EXISTING TO REMAIN CONTROL DAMPER ASSEMBLY INCLUDING ACTUATOR. CIC TO PROVIDE AND INSTALL CONTROL AND POWER WIRING.
4. EXISTING TO REMAIN VALVE ASSEMBLIES WITH FACTORY MOUNTED ACTUATORS. CIC TO PROVIDE AND INSTALL CONTROL AND POWER WIRING.
5. TCC SHALL PROVIDE AND CIC SHALL WIRE INTERLOCK TO ASSOCIATED VARIABLE FREQUENCY DRIVE TO EMERGENCY STOP OPERATION IF ANY SAFETY CIRCUIT IS ACTIVATED.
6. TCC SHALL PROVIDE AND CIC SHALL INSTALL A BUILDING STATIC PRESSURE TRANSDUCER WITH OUTDOOR DWYER A-306 STATIC TIP AND INDOOR DWYER RPS STATIC TIP.

Point Summary

System	Qty.	Typ.	Device ID	Point Name	Point Type
VAV AHU-C1	1	1	BLDG-SP	Building Static Pressure	AI
VAV AHU-C1	1	1	DA-HL	High Static Shutdown	BI
VAV AHU-C1	1	1	DA-SP	Duct Static Pressure	AI
VAV AHU-C1	1	1	DA-T	Supply Air Temperature	AI
VAV AHU-C1	1	1	DX1-C	Cooling DX Stage 1	BO
VAV AHU-C1	1	1	DX2-C	Cooling DX Stage 2	BO
VAV AHU-C1	1	1	HC-T	Heating Coil Discharge Air Temperature	AI
VAV AHU-C1	1	1	HTG-VLV	Heating Valve	AO
VAV AHU-C1	1	1	LT-ALM	Freezestat	BI
VAV AHU-C1	1	1	MA-T	Mixed Air Temperature	AI
VAV AHU-C1	1	1	OA-DPR	Outside Air Damper	AO
VAV AHU-C1	1	1	OA-H	Outside Air Humidity	AI
VAV AHU-C1	1	1	OA-T	Outside Air Temperature	AI
VAV AHU-C1	1	1	P1-C	Pump Start/Stop	BO
VAV AHU-C1	1	1	P1-S	Pump Status	BI
VAV AHU-C1	1	1	RA-DPR	Return Air Damper	AO
VAV AHU-C1	1	1	RA-SD	Return Air Smoke Detector	BI
VAV AHU-C1	1	1	RA-T	Return Air Temperature	AI
VAV AHU-C1	1	1	RE-1	HARDWIRED	HARDWIR
VAV AHU-C1	1	1	SF-C	Supply Fan Start/Stop	BO
VAV AHU-C1	1	1	SF-O	Supply Fan VFD Speed	AO
VAV AHU-C1	1	1	SF-S	Supply Fan Status	BI

Devices	Points	PointType
8	8	AI
4	4	AO
5	5	BI
4	4	BO
1	1	HARDWIR
22	22	Total

BILL OF MATERIALS

DEVICE ID	VENDOR P/N	QTY	DESCRIPTION	MANUFACTURER
BBC-2	301604	1	301604 EBMGR-2 ENTELIBUS SYSTEM CONTROLLER	DELTA CONTROLS PRODUCTS
BLDG-SP	400399	1	ZPS-LR-EZ-NT-IN EZ LOW PRESSURE SENSOR, 0.1-1INCH	BAPI
BLDG-SP	400429	1	ZPS-ACC20 LOW PROFILE PICK-UP PORT	BAPI
BLDG-SP	400083	1	ZPS-ACC10 OUTSIDE AIR PRESSURE PICKUP PORT, WALL	BAPI
DA-HL	413077	1	1900-5-MR DIFFERENTIAL PRESSURE SWITCH, RANGE 140	DWYER INSTRUMENTS, INC.
DA-HL	400328	1	ZPS-ACC07 ZONE PRESSURE ACCESSORY, STATIC PRESSUR	BAPI
DA-SP	*EXISTING	1	DEVICE EXISTING	
DA-T,DX1-C,DX2-C,HC-T,HTG-VLV,MA-T,OA-DPR,HT,P1-C,S,RA-DPR,SD,T	*EXISTING	14	DEVICE EXISTING	
EBX-1	311601	1	311601EBX-04 ENTELIBUS EXPANDER BACKPLANE (4 SLOT	DELTA CONTROLS PRODUCTS
LT-ALM	499777	1	TSA-DOP LOW LIMIT,MANUAL RESET, SPDT	KELE
MOD-1	375604	1	375604 EBM-404-H ENTELIBUS MODULE (4 UIS,4 BOS WIT	DELTA CONTROLS PRODUCTS
MOD-2	375601	1	375601EBM-440-M ENTELIBUS MODULE (4 UIS,4 AOS WIT	DELTA CONTROLS PRODUCTS
MOD-3	375606	1	375606 EBM-800 ENTELIBUS MODULE (8 UIS)	DELTA CONTROLS PRODUCTS
RE-1	403386	1	RIBMNLB-4 PANEL RELAY 2.75 TRACK-MOUNT RELAY LOGIC	FUNCTIONAL DEVICES INC.
SF-C	403464	1	RIBU2C ENCLOSED RELAYS 10AMP 2 SPDT 10-30VAC/DC/12	FUNCTIONAL DEVICES INC.
SF-O	QUOTE	1	SEE VFD SCHEDULE	
SF-S	403501	1	RIBXKTA SOLID CORE, ADJUSTABLE CURRENT SWITCH, 0.5	FUNCTIONAL DEVICES INC.

PROJECT TITLE: MSD TRANSPORTATION BUILDING

PROJECT NUMBER: PAS1976-SRV2245

BY: KK

PRELIMINARY: 2

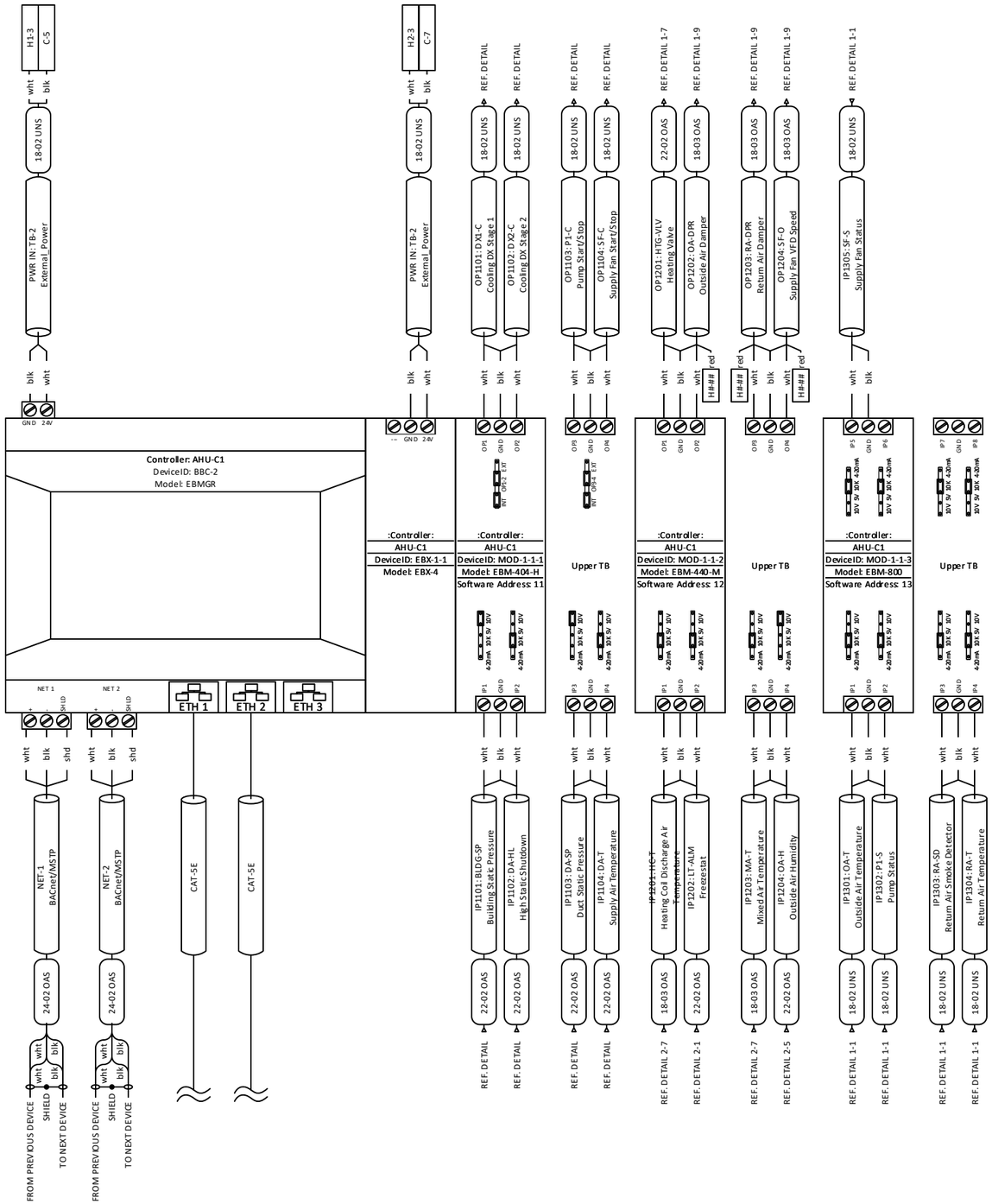
PRINTED 01/11/2022 Ver. 4.8.0

Delta CONTROLS — A Delta Group Company

DRAWING TITLE: VAV AHU-C1 FLOW

DRAWING NUMBER: DWG 10.00

VAV AHU-C1 CONTROLLER IO I/O PG 1



PROJECT TITLE: MSD TRANSPORTATION BUILDING			DRAWING TITLE: VAV AHU-C1 CONTROLLER IO I/O PG 1
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022	Ver. 4.8.0	DRAWING NUMBER: DWG 10.01

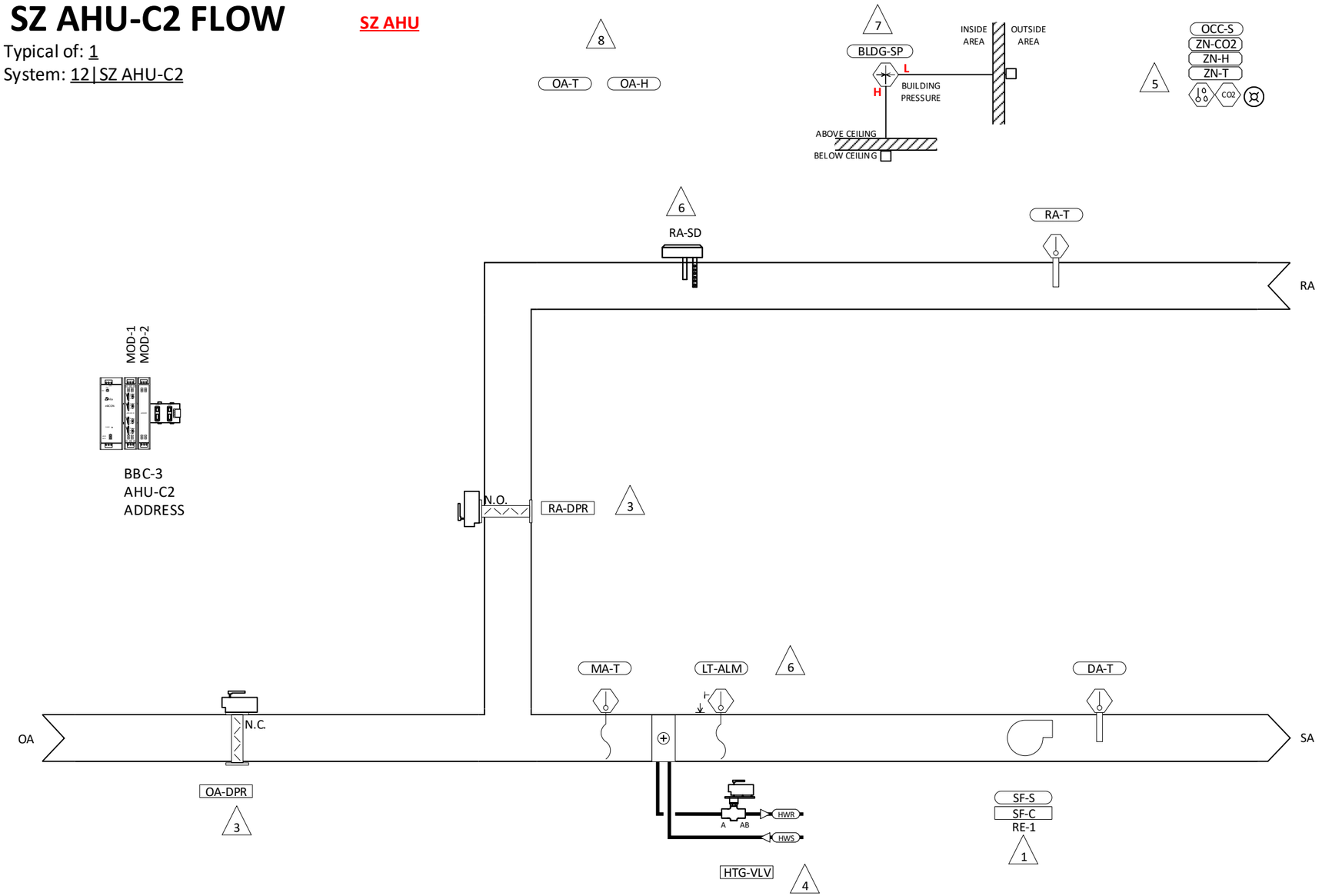
Delta CONTROLS — A Delta Group Company

SZ AHU-C2 FLOW

SZ AHU

Typical of: 1

System: 12|SZ AHU-C2



BBC-3
AHU-C2
ADDRESS

Notes:

1. EXISTING TO REMAIN MOTOR STARTER, INSTALLATION, AND POWER. SEE MECHANICAL DRAWINGS FOR UNIT OR WALL MOUNTED LOCATIONS. CIC RESPONSIBLE FOR AUX CONTACT SAFETY WIRING FROM DISCONNECT.
3. EXISTING TO REMAIN CONTROL DAMPER ASSEMBLY INCLUDING ACTUATOR. CIC TO PROVIDE AND INSTALL CONTROL AND POWER WIRING.
4. EXISTING TO REMAIN VALVE ASSEMBLIES WITH FACTORY MOUNTED ACTUATORS. CIC TO PROVIDE AND INSTALL CONTROL AND POWER WIRING.
5. CC SHALL PROVIDE AND CIC SHALL INSTALL NEW ZONE SENSOR WITH TEMPERATURE, HUMIDITY, AND CO2 SENSING.
6. TCC SHALL PROVIDE AND CIC SHALL WIRE INTERLOCK TO ASSOCIATED MOTOR STARTER TO EMERGENCY STOP OPERATION IF ANY SAFETY CIRCUIT IS ACTIVATED.
7. TCC SHALL PROVIDE AND CIC SHALL INSTALL A BUILDING STATIC PRESSURE TRANSDUCER WITH OUTDOOR DWYER A-306 STATIC TIP AND INDOOR DWYER RPS STATIC TIP.
8. OA-T AND OA-H TO BE TRANSFERED OVER THE NETWORK FROM ANOTHER DEVICE

Point Summary

System	Qty.	Typ.	Device ID	Point Name	Point Type
SZ AHU-C2	1	1	BLDG-SP	Building Static Pressure	AI
SZ AHU-C2	1	1	DA-T	Supply Air Temperature	AI
SZ AHU-C2	1	1	HTG-VLV	Heating Valve	AO
SZ AHU-C2	1	1	LT-ALM	Freezestat	BI
SZ AHU-C2	1	1	MA-T	Mixed Air Temperature	AI
SZ AHU-C2	1	1	OA-DPR	Outside Air Damper	AO
SZ AHU-C2	1	1	OA-H	Outside Air Humidity	SOFTWARE
SZ AHU-C2	1	1	OA-T	Outside Air Temperature	SOFTWARE
SZ AHU-C2	1	1	OCC-S	Occupancy Sensor	LINKNET
SZ AHU-C2	1	1	RA-DPR	Return Air Damper	AO
SZ AHU-C2	1	1	RA-SD	Return Air Smoke Detector	BI
SZ AHU-C2	1	1	RA-T	Return Air Temperature	AI
SZ AHU-C2	1	1	RE-1	HARDWIRED	HARDWIRE
SZ AHU-C2	1	1	SF-C	Supply Fan Start/Stop	BO
SZ AHU-C2	1	1	SF-S	Supply Fan Status	BI
SZ AHU-C2	1	1	ZN-CO2	Space CO2 Levels	LINKNET
SZ AHU-C2	1	1	ZN-H	Space Humidity	LINKNET
SZ AHU-C2	1	1	ZN-T	Space Temperture	LINKNET

Devices	Points	PointType
4	4	AI
3	3	AO
3	3	BI
1	1	BO
1	1	HARDWIRE
4	4	LINKNET
2	2	SOFTWARE
18	18	Total

BILL OF MATERIALS

DEVICE ID	VENDOR P/N	QTY	DESCRIPTION	MANUFACTURER
BBC-3	311596	1	311596 EBCON-2 ENTELIBUS SYSTEM CONTROLLER W/ETHER	DELTA CONTROLS PRODUCTS
BLDG-SP	400399	1	ZPS-LR-EZ-NT-IN EZ LOW PRESSURE SENSOR, 0.1-1INCH	BAPI
BLDG-SP	400429	1	ZPS-ACC20 LOW PROFILE PICK-UP PORT	BAPI
BLDG-SP	400083	1	ZPS-ACC10 OUTSIDE AIR PRESSURE PICKUP PORT, WALL	BAPI
DA-T,HTG-VLV,MA-T,OA-DPR,H,T,RA-DPR,SD,T,SF-C,S	*EXISTING	8	DEVICE EXISTING	
LT-ALM	499777	1	TSA-DOP LOW LIMIT,MANUAL RESET, SPDT	KELE
MOD-1	375601	1	375601EBM-440-M ENTELIBUS MODULE (4 UIS,4 AOS WIT	DELTA CONTROLS PRODUCTS
MOD-2	375606	1	375606 EBM-800 ENTELIBUS MODULE (8 UIS)	DELTA CONTROLS PRODUCTS
OCC-S,ZN-CO2,H,T	337370	1	337370 EZNS-T100CHM-ND-SC-000-WWG ENTELIZONE	DELTA CONTROLS PRODUCTS
RE-1	403386	1	RIBM NLB-4 PANEL RELAY 2.75 TRACK-MOUNT RELAY LOGIC	FUNCTIONAL DEVICES INC.

PROJECT TITLE: MSD TRANSPORTATION BUILDING

PROJECT NUMBER: PAS1976-SRV2245

BY: KK

PRELIMINARY: 2

PRINTED 01/11/2022

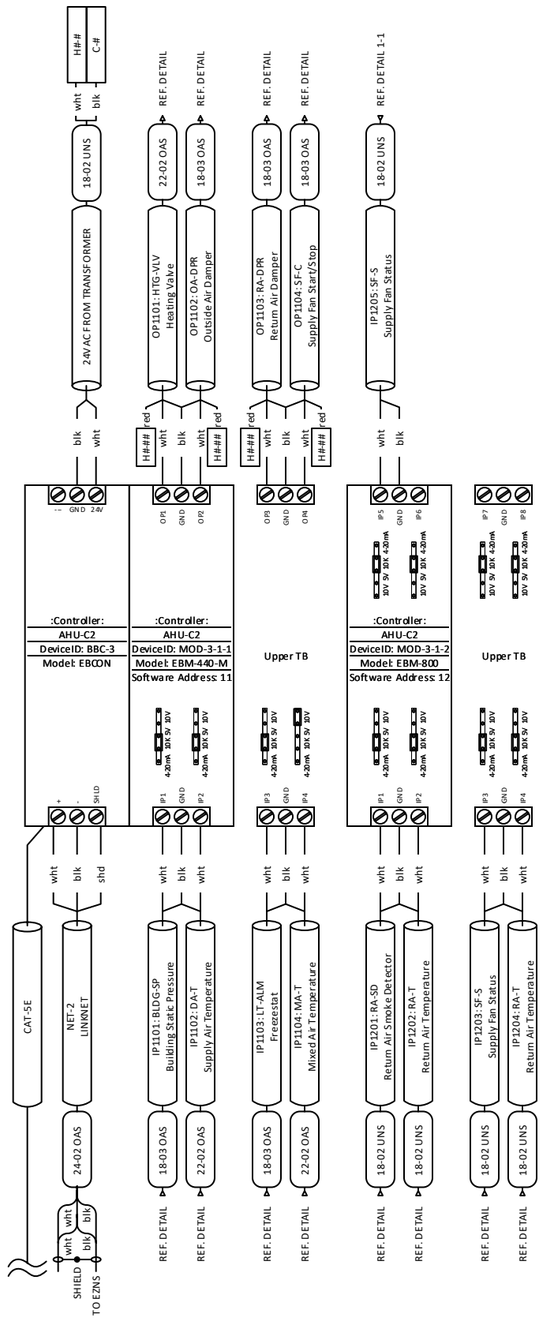
Ver. 4.8.0

Delta CONTROLS
A Delta Group Company

DRAWING TITLE: SZ AHU-C2 FLOW

DRAWING NUMBER: DWG 12.00

SZ AHU-V2 CONTROLLER IO I/O PG1

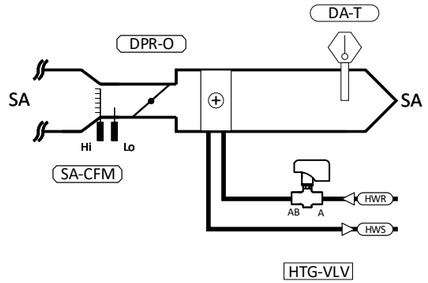


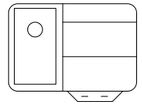
PROJECT TITLE: MSD TRANSPORTATION BUILDING		Delta CONTROLS A Delta Group Company	DRAWING TITLE: SZ AHU-V2 CONTROLLER IO I/O PG1
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022 Ver. 4.8.0		DRAWING NUMBER: DWG 12.01

VAV-C01 FLOW

TU-VAV W/HW REHEAT EZVP-440

Typical of: 1
System: 31|VAV-C01 W/REHEAT

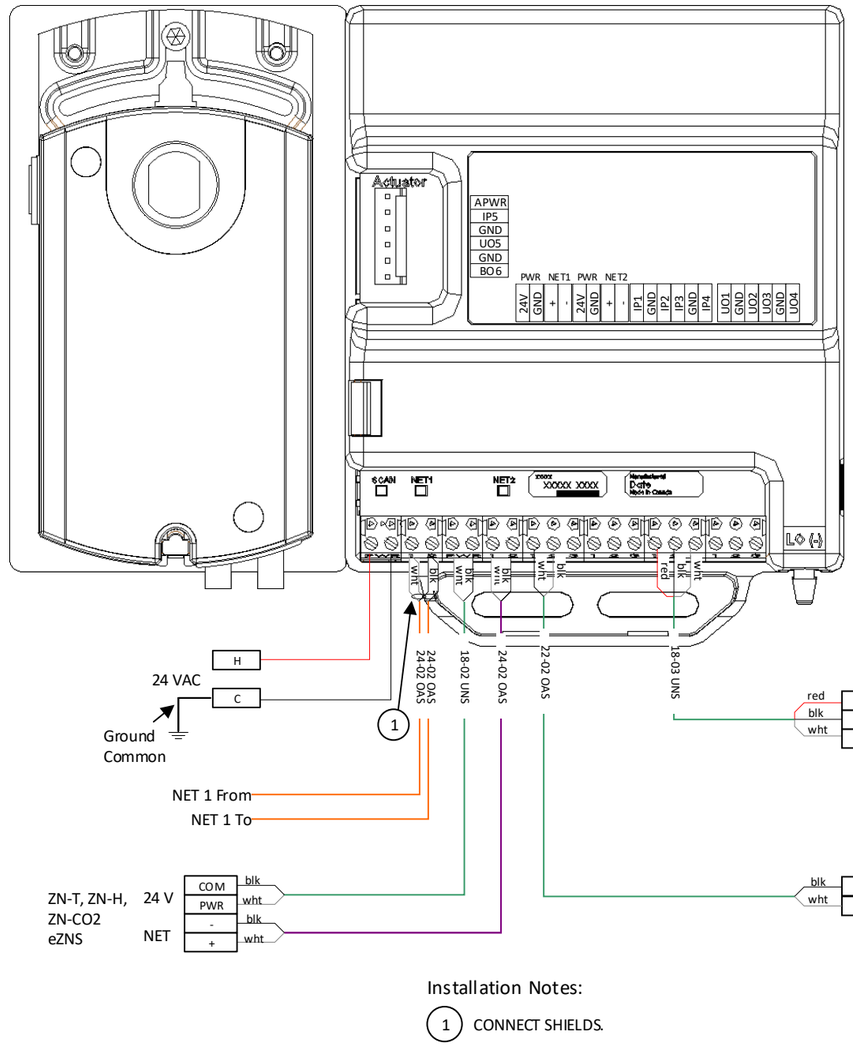




BASC-1-12
VAV-C01
ADDRESS

Point Summary					
System	Qty.	Typ.	Device ID	Point Name	Point Type
VAV-C01	1	1	DA-T	Discharge Air Temp	AI
VAV-C01	1	1	DPR-O	Zone Damper	SOFTWARE
VAV-C01	1	1	HTG-VLV	Reheating Valve	FLOATING
VAV-C01	1	1	SA-CFM	Airflow	SOFTWARE
VAV-C01	1	1	ZN-CO2	Zone CO2	LINKNET
VAV-C01	1	1	ZN-H	Zone Humidity	LINKNET
VAV-C01	1	1	ZN-T	Zone Temp	LINKNET

Devices	Points	PointType
1	1	AI
1	1	FLOATING
3	3	LINKNET
2	2	SOFTWARE
7	7	Total



Installation Notes:

1 CONNECT SHIELDS.

BILL OF MATERIALS				
DEVICE ID	VENDOR P/N	QTY	DESCRIPTION	MANUFACTURER
BASC-1-12,DPR-O,SA-CFM	333010	1	333010 EZVP-440-AB ENTELIZONE VAV CONTROLLER (PROG	DELTA CONTROLS PRODUCTS
DA-T	400160	1	BA/10K-3-D-4" DUCT TEMP SENSOR, 4 STAINLESS STEEL	BAPI
HTG-VLV	*EXISTING	1	DEVICE EXISTING	
ZN-CO2,H,T	337364	1	337364 EZNS-T100CH-ND-SC-000-WWG ENTELIZONE NETWOR	DELTA CONTROLS PRODUCTS

PROJECT TITLE: MSD TRANSPORTATION BUILDING
PROJECT NUMBER: PAS1976-SRV2245
BY: KK
PRELIMINARY: 2
PRINTED 01/11/2022
Ver. 4.8.0

Delta CONTROLS
A Delta Group Company

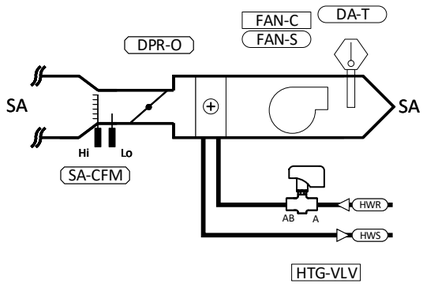
DRAWING TITLE: VAV-C01 FLOW
DRAWING NUMBER: DWG 31.00

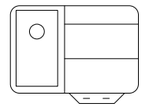
FPB-C01-C11 FLOW

TU-SFPB w/HW Reheat EZVP-440

Typical of: 11

System: 32|FPB-C01-C11 W/HW

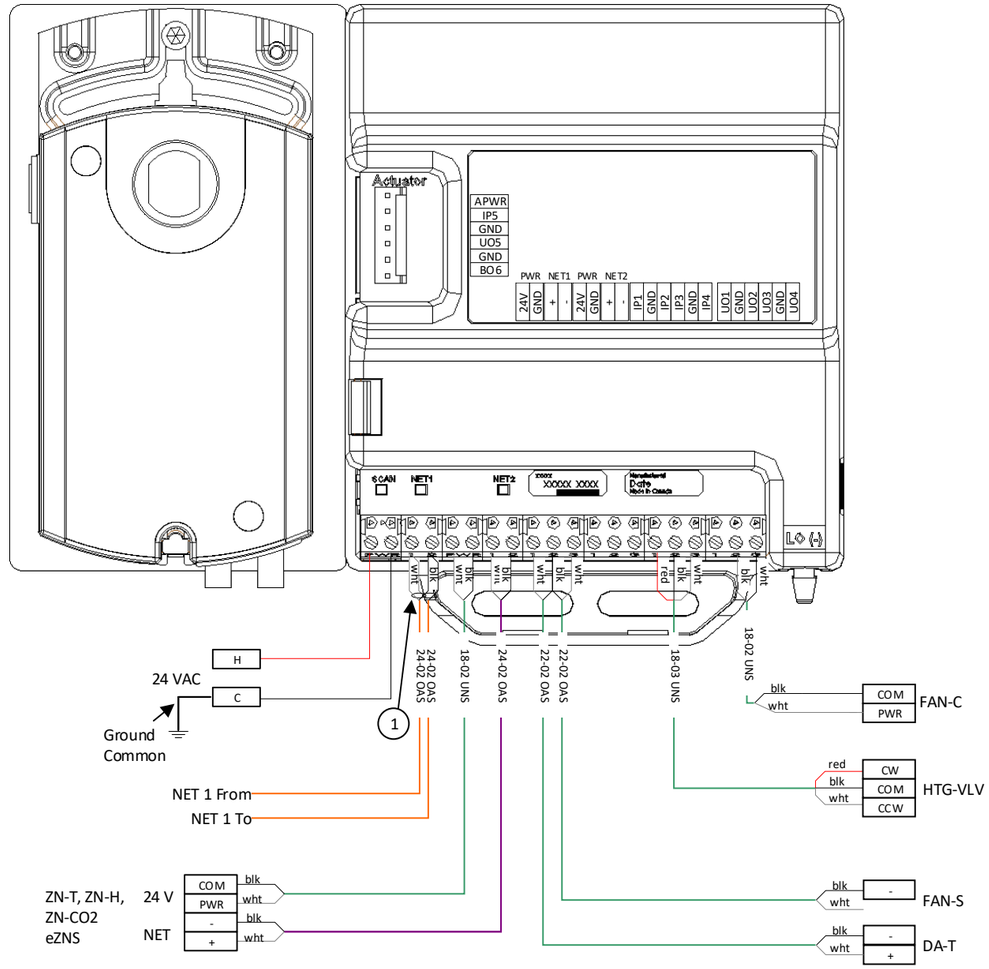




BASC-1-1 TO BASC-1-12
FPB-C#
ADDRESS

Point Summary					
System	Qty.	Typ.	Device ID	Point Name	Point Type
FPB-C01-C11	1	11	DA-T	Discharge Air Temp	AI
FPB-C01-C11	1	11	DPR-O	Zone Damper	SOFTWARE
FPB-C01-C11	1	11	FAN-C	Fan Start/Stop	BO
FPB-C01-C11	1	11	FAN-S	Fan Status	BI
FPB-C01-C11	1	11	HTG-VLV	Reheating Valve	FLOATING
FPB-C01-C11	1	11	SA-CFM	Airflow	SOFTWARE
FPB-C01-C11	1	11	ZN-CO2	Zone CO2	LINKNET
FPB-C01-C11	1	11	ZN-H	Zone Humidity	LINKNET
FPB-C01-C11	1	11	ZN-T	Zone Temp	LINKNET

Devices	Points	PointType
1	11	AI
1	11	BI
1	11	BO
1	11	FLOATING
3	33	LINKNET
2	22	SOFTWARE
9	99	Total



Installation Notes:

1 CONNECT SHIELDS.

BILL OF MATERIALS				
DEVICE ID	VENDOR P/N	QTY	DESCRIPTION	MANUFACTURER
BASC-1-1TO BASC-1-12,DPR-O,SA-CFM	333010	11	333010 EZVP-440-AB ENTELIZONE VAV CONTROLLER (PROG	DELTA CONTROLS PRODUCTS
DA-T	400160	11	BA/10K-3-D-4" DUCT TEMP SENSOR, 4 STAINLESS STEEL	BAPI
FAN-C,S,HTG-VLV	*EXISTING	33	DEVICE EXISTING	
ZN-CO2,H,T	337364	11	337364 EZNS-T100CH-ND-SC-000-WWG ENTELIZONE NETWOR	DELTA CONTROLS PRODUCTS

PROJECT TITLE: MSD TRANSPORTATION BUILDING

PROJECT NUMBER: PAS1976-SRV2245

BY: KK

PRELIMINARY: 2

PRINTED 01/11/2022 Ver. 4.8.0

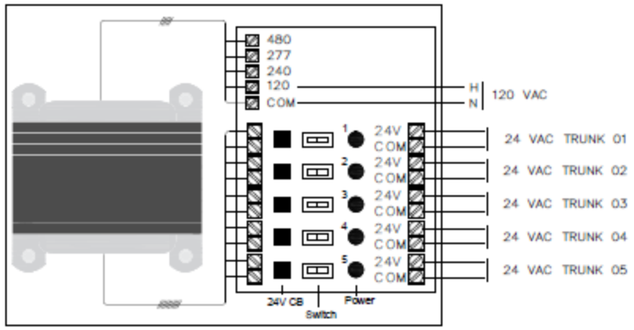
Delta CONTROLS — A Delta Group Company

DRAWING TITLE: FPB-C01-C11 FLOW

DRAWING NUMBER: DWG 32.00

VAV POWER DISTRIBUTION

TX1



24 VAC Power Trunks:

1. Typically utilizes #14 Gauge or heaver cable.
2. Typically, each leg is intended to support four (4) to five (5) VAV box controllers maximum.
3. See table for cable requirements for long runs and/or high VA requirements.

24 VAC Power Cable Sizing - Maximum allowable voltage drop

1. Supply voltage deviation should not exceed 2 VAC at any given terminal controller.
2. Table indicates the maximum one-way distance for power wiring based on load and wire size.
   a. These values will limit the voltage drop as indicated above.
3. To calculate the required wire size and maximum length:
   a. Determine power requirements for the controller and all connected devices including but not limited to:
      i. The controller itself with all onboard devices.
      ii. LINKNet controllers and devices
      iii. eZNS T-100 room sensors powered from the controller
      iv. Valve and damper actuators.
      v. Powered sensors.
      vi. Control relays.
4. Data for 18 AWG and greater wire in the accompanying table are from Chapter 9, Table 8 of the 2005 NEC. Resistance values based on a temperature of 75°C.
5. Data in the following table is based on the formula:
   a. Wire length (ft) = (Voltage Drop / (ohms per kFt * load in amps) * 1000) /2

		AWG (ohms / kFt)						
		22 Ga	20 Ga	18 Ga	16 Ga	14 Ga	12 Ga	10 Ga
		16.46	10.35	7.95	4.99	3.14	1.98	1.24
A	VA	Max One-Way Distance to Load (ft)						
0.11	2.5	552	878	1144	1822	2895	4591	7331
0.21	5	289	460	599	954	1517	2405	3840
0.42	10	145	230	302	481	764	1212	1935
0.83	20	73	116	151	240	382	606	968
1.25	30	49	77	101	160	255	404	645
1.67	40	36	58	75	120	191	303	484
2.08	50	29	46	60	96	153	242	387
2.5	60	24	39	50	80	127	202	323
2.92	70	21	33	43	69	109	173	276
3.33	80	18	29	38	60	96	152	242
3.75	90	16	26	34	53	85	135	215
4	96	15	24	31	50	80	126	202

Typical Power Calculations:

eZV-440	11 VA
eZFC-424R4-24	15 VA
DVC-V322A-B	15 VA
DNS-24L/LB/H24LB	1.5 VA
DNS-C24/CH24	3 VA
eZNS-T100 (ST)	2 VA (no backlight)
eZNS-T100 (ST)	4 VA (with backlight)
eZNS-T100 (ST/CO2)	6 VA (with backlight)
CQB24-SR	1 VA
LF24-SR	5 VA
TFB24-S	5 VA

BILL OF MATERIALS

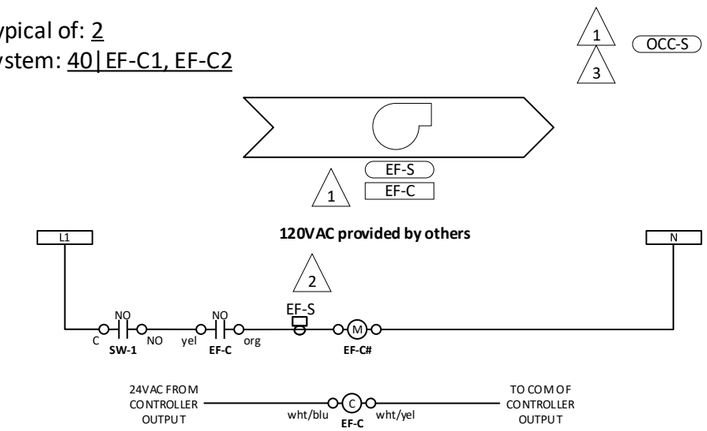
DEVICE ID	VENDOR P/N	QTY	DESCRIPTION	MANUFACTURER
TX1	403195	1	PSH500A ENCLOSED 5-100VA 120/240 TO 24VAC UL CLASS	FUNCTIONAL DEVICES INC.

PROJECT TITLE: MSD TRANSPORTATION BUILDING
PROJECT NUMBER: PAS1976-SRV2245
BY: KK
PRELIMINARY: 2
PRINTED 01/11/2022
Ver. 4.8.0
Delta CONTROLS — A Delta Group Company
DRAWING TITLE: VAV POWER DISTRIBUTION
DRAWING NUMBER: DWG 32.01

EF-C1, EF-C2 FLOW

1 EF - No Damper

Typical of: 2
System: 40|EF-C1, EF-C2



Notes:

1. IO TO BE PICKED UP ON HWS CONTROLLER.
2. UNKNOWN IF CT IS EXISTING OR A NEW ONE IS REQUIRED. PROVIDED CT IN BOM IN CASE THERE IS NOT ONE ALREADY EXISTING.
3. UNKNOWN IF OCCUPANCY SENSOR IS EXISTING OR A NEW ONE IS REQUIRED. PROVIDED EZNS WITH MOTION IN BOM IN CASE THERE IS NOT ONE ALREADY EXISTING.

Point Summary					
System	Qty.	Typ.	Device ID	Point Name	Point Type
EF-C1, EF-C2	1	2	EF-C	Exhaust Fan Start/Stop	BO
EF-C1, EF-C2	1	2	EF-S	Exhaust Fan Status	BI
EF-C1, EF-C2	1	2	OCC-S	Occupancy Status	LINKNET

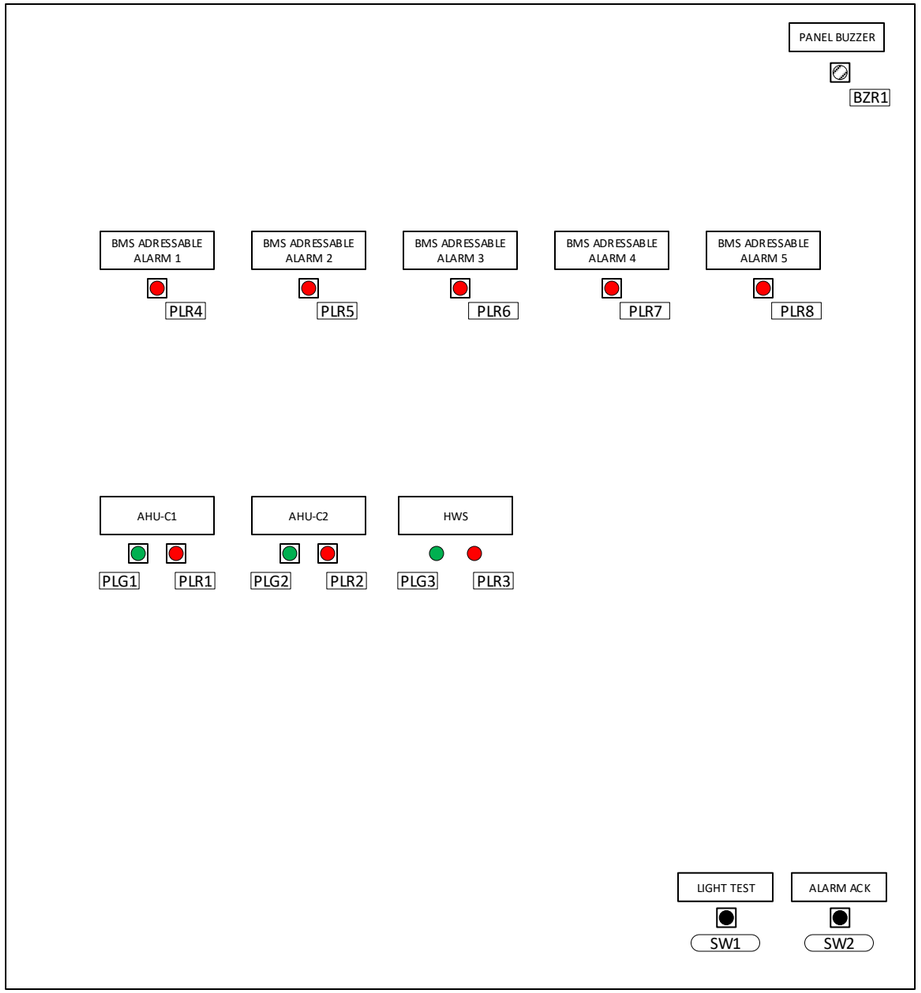
Devices	Points	PointType
1	2	BI
1	2	BO
1	2	LINKNET
3	6	Total

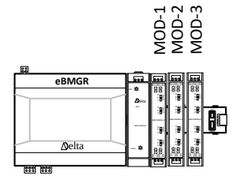
BILL OF MATERIALS				
DEVICE ID	VENDOR P/N	QTY	DESCRIPTION	MANUFACTURER
EF-C	*EXISTING	2	DEVICE EXISTING	
EF-S	403501	2	RIBXKTA SOLID CORE, ADJUSTABLE CURRENT SWITCH, 0.5	FUNCTIONAL DEVICES INC.
OCC-S	335368	2	335368 EZNS-T100M-ND-SM-000-WWG ENTELIZONE	DELTA CONTROLS PRODUCTS

PROJECT TITLE: MSD TRANSPORTATION BUILDING
PROJECT NUMBER: PAS1976-SRV2245
BY: KK
PRELIMINARY: 2
PRINTED 01/11/2022 Ver. 4.8.0
Delta CONTROLS — A Delta Group Company
DRAWING TITLE: EF-C1, EF-C2 FLOW
DRAWING NUMBER: DWG 40.00

ANNUNCIATOR PANEL

Typical of: 1
System: 54|ANNUNCIATOR PANEL





BBC-1
ANNUNCIATOR
ADDRESS

EBX-4

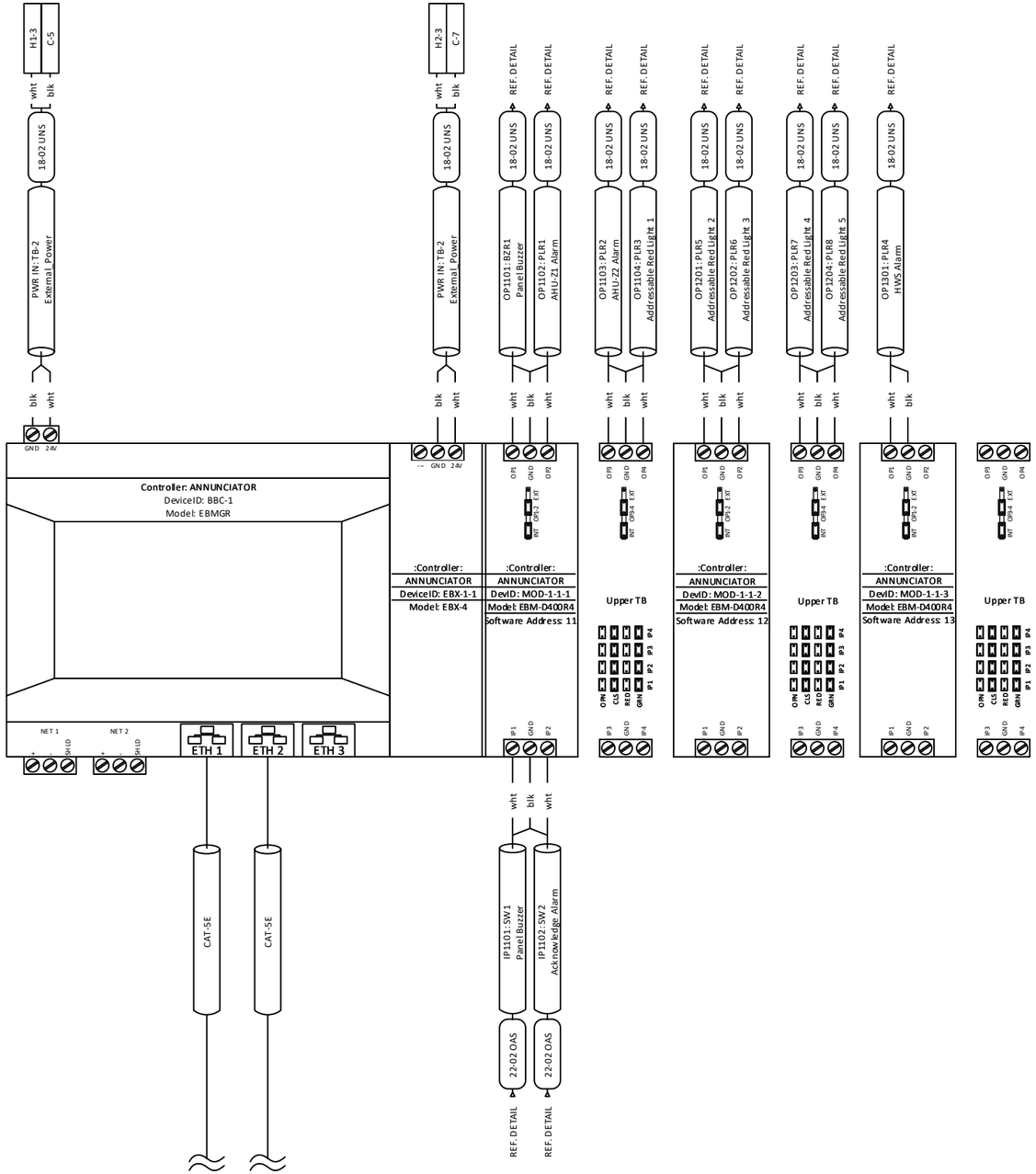
Point Summary					
System	Qty.	Typ.	Device ID	Point Name	Point Type
ANNUNCIATOR	1	1	BZR1	Panel Buzzer	BO
ANNUNCIATOR	1	1	PLG1	AHU-C1Normal	HARDWIRE
ANNUNCIATOR	1	1	PLG2	AHU-C2 Normal	HARDWIRE
ANNUNCIATOR	1	1	PLG3	HWS Normal	HARDWIRE
ANNUNCIATOR	1	1	PLR1	AHU-C1Alarm	BO
ANNUNCIATOR	1	1	PLR2	AHU-C2 Alarm	BO
ANNUNCIATOR	1	1	PLR3	HWS Alarm	BO
ANNUNCIATOR	1	1	PLR4	Addressable Red Light 1	BO
ANNUNCIATOR	1	1	PLR5	Addressable Red Light 2	BO
ANNUNCIATOR	1	1	PLR6	Addressable Red Light 3	BO
ANNUNCIATOR	1	1	PLR7	Addressable Red Light 4	BO
ANNUNCIATOR	1	1	PLR8	Addressable Red Light 5	BO
ANNUNCIATOR	1	1	SW1	Light Test	BI
ANNUNCIATOR	1	1	SW2	Acknowledge Alarm	BI

Devices	Points	PointType
2	2	BI
9	9	BO
3	3	HARDWIRE
14	14	Total

BILL OF MATERIALS				
DEVICE ID	VENDOR P/N	QTY	DESCRIPTION	MANUFACTURER
BBC-1	301604	1	301604 EBMGR-2 ENTELIBUS SYSTEM CONTROLLER	DELTA CONTROLS PRODUCTS
BZR1	QUOTE	1	ECX2070-24 BUZZER, 25MA, 24VAC/DC, 80DB	AUTOMATION DIRECT
EBX-4	311601	1	311601EBX-04 ENTELIBUS EXPANDER BACKPLANE (4 SLOT	DELTA CONTROLS PRODUCTS
MOD-1,2,3	375609	3	375609 EBM-D400R4-HENTELIBUS MODULE (4 BIS,4 RELA	DELTA CONTROLS PRODUCTS
PLG1,PLG2,PLG3	AP8M122-G	3	PILOT LIGHT MINIATURE 8MM FLAT LENS ACDC 24V GREE	IDEC
PLG1,PLG2,PLG3	403319	3	RIBRL1C DIN MOUNT RELAY 10 AMP SPDT WITH 10-30 VAC	FUNCTIONAL DEVICES INC.
PLR1,PLR2,PLR3,PLR4,PLR5,PLR6,PLR7,PLR8	AP8M122-R	8	PILOT LIGHT MINIATURE 8MM FLAT LENS AC/DC 24V RED	IDEC
SW1,SW2	499915	2	ABW111PUSH BUTTON 1NO 1NC MOMENTARY FLUSH-3 COLO	KELE

PROJECT TITLE: MSD TRANSPORTATION BUILDING
PROJECT NUMBER: PAS1976-SRV2245
BY: KK
PRELIMINARY: 2
PRINTED 01/11/2022 Ver. 4.8.0
Delta CONTROLS A Delta Group Company
DRAWING TITLE: ANNUNCIATOR PANEL
DRAWING NUMBER: DWG 54.00

ANNUNCIATOR PANEL CONTROLLER IO I/O



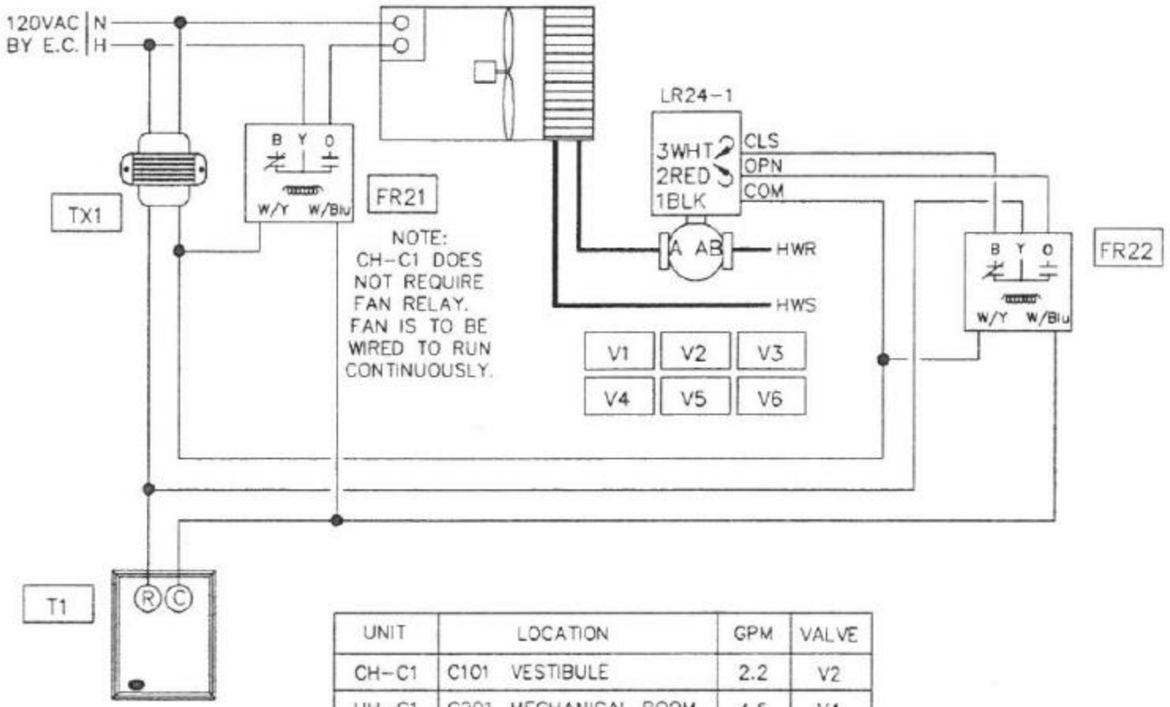
PROJECT TITLE: MSD TRANSPORTATION BUILDING		Delta CONTROLS A Delta Group Company	DRAWING TITLE: ANNUNCIATOR PANEL CONTROLLER IO I/O
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022 Ver. 4.8.0		DRAWING NUMBER: DWG 54.01

MISC FIELD DEVICES

1

CABINET/UNIT HEATERS

TYPICAL FOR 15 – EXCEPT AS NOTED



UNIT	LOCATION	GPM	VALVE
CH-C1	C101 VESTIBULE	2.2	V2
UH-C1	C201 MECHANICAL ROOM	4.5	V4
UH-C2	C129 BUS WASH	6.9	V5
UH-C3	C129 BUS WASH	6.9	V5
UH-C4	C202 STORAGE	2.8	V3
UH-C5	C3 STAIR	1.1	V1
UH-C6	C127 FLUIDS	2.8	V3
UH-C7	C126 ELECTRICAL	1.1	V1
UH-C8	C124 PARTS	2.8	V3
UH-C9	C124 PARTS	2.8	V3
UH-C10	C2 STAIR	5.0	V4
UH-C10	C123 GARAGE	5.0	V6
UH-C11	C123 GARAGE	5.0	V6
UH-C12	C123 GARAGE	5.0	V6
UH-C13	C123 GARAGE	5.0	V6

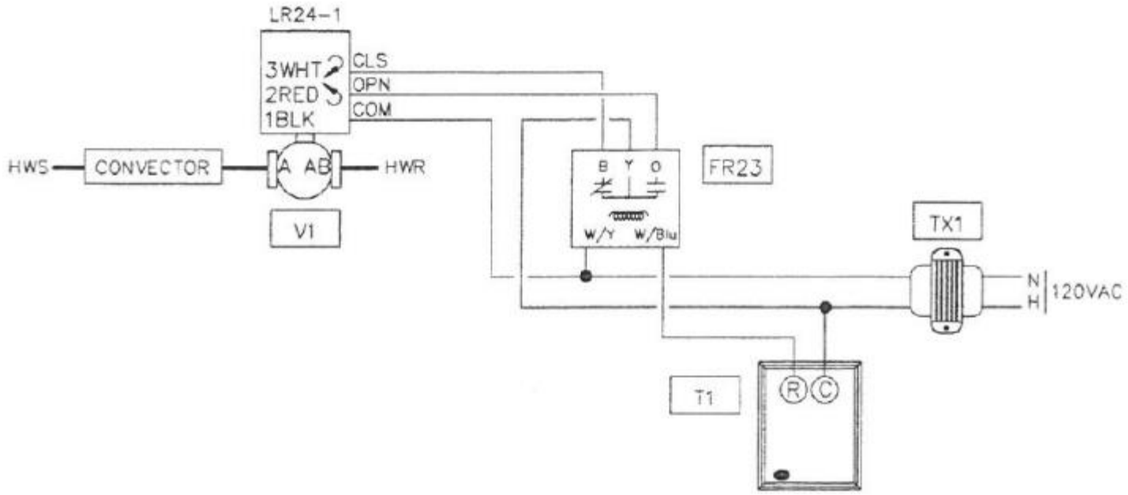
Notes:

1 EXISTING FIELD DEVICES ARE STAND ALONE, CONTROLLED BY STAND ALONE LINE VOLTAGE THERMOSTAT AND NOT TIED BACK TO DDC.

1

RESTROOM CONVECTORS

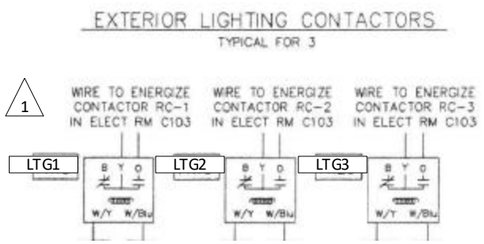
TYPICAL FOR 2



PROJECT TITLE	MSD TRANSPORTATION BUILDING
PROJECT NUMBER	PAS1976-SRV2245
BY: KK	
PRELIMINARY: 2	
PRINTED 01/11/2022	Ver. 4.8.0
Delta CONTROLS A Delta Group Company	
DRAWING TITLE	MISC FIELD DEVICES
DRAWING NUMBER	DWG 54.02

EXTERIOR LIGHTING CONTACTORS

3 Lighting Contactors



Notes:

1 EXISTING LIGHTING CONTACTORS TO BE PICKED UP FROM SINGLE OUTPUT ON NEW HWS CONTROLLER

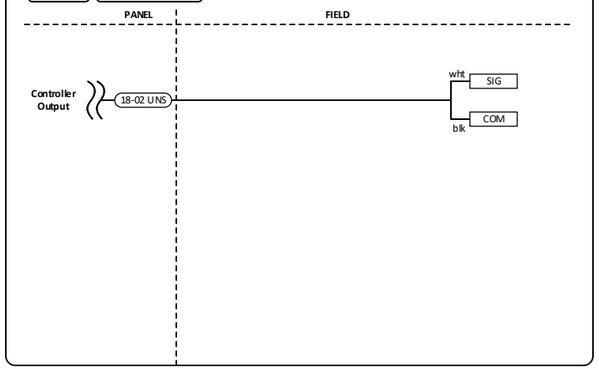
Point Summary					
System	Qty.	Typ.	Device ID	Point Name	Point Type
MISC-LIGHTING	1	1	LTG1	Lighting Contactor Relay 1	BO
MISC-LIGHTING	1	1	LTG2	Lighting Contactor Relay 2	HARDWIRE
MISC-LIGHTING	1	1	LTG3	Lighting Contactor Relay 3	HARDWIRE

Devices	Points	PointType
1	1	BO
2	2	HARDWIRE
3	3	Total

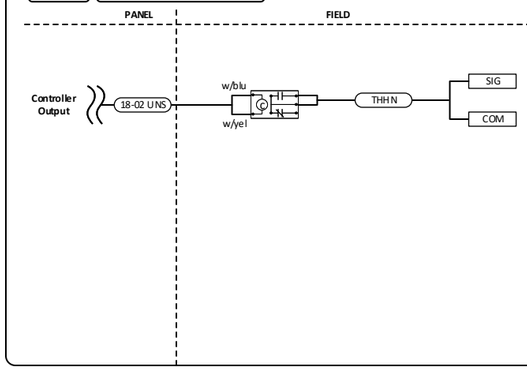
PROJECT TITLE: MSD TRANSPORTATION BUILDING		Delta CONTROLS A Delta Group Company	DRAWING TITLE: EXTERIOR LIGHTING CONTACTORS
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022 Ver. 4.8.0		DRAWING NUMBER: DWG 54.03

DETAILS-1

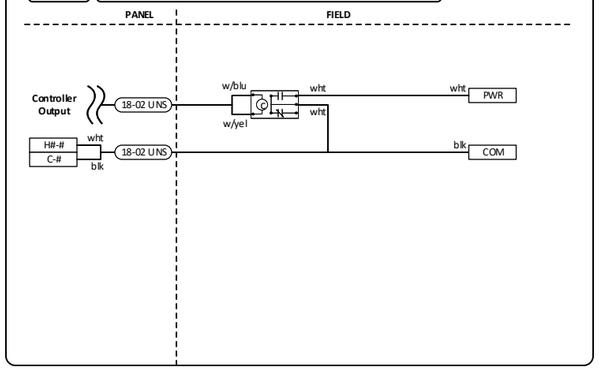
1 BO Enable



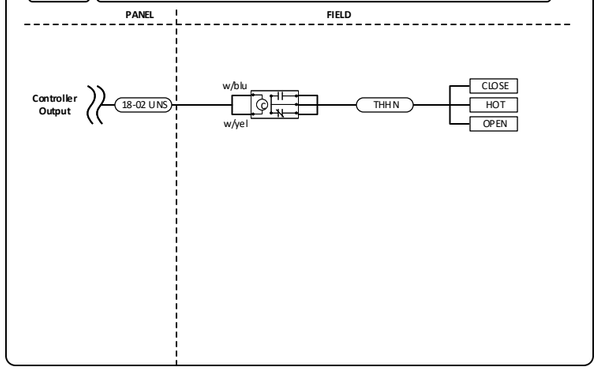
2 BO Enable - Relay



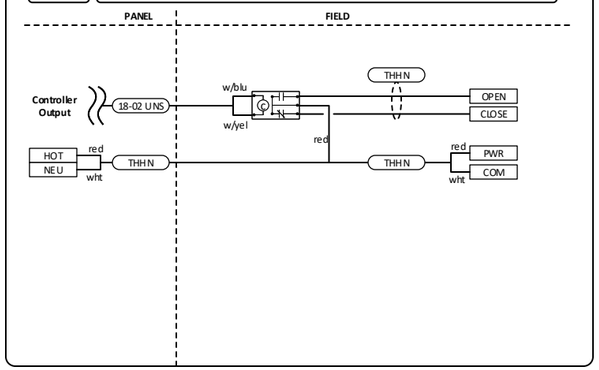
3 BO Valve/Damper 24VAC Panel Power



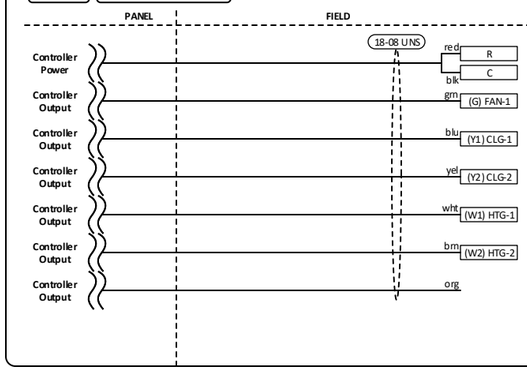
4 BO Valve/Damper 120VAC Open/Close Field Power



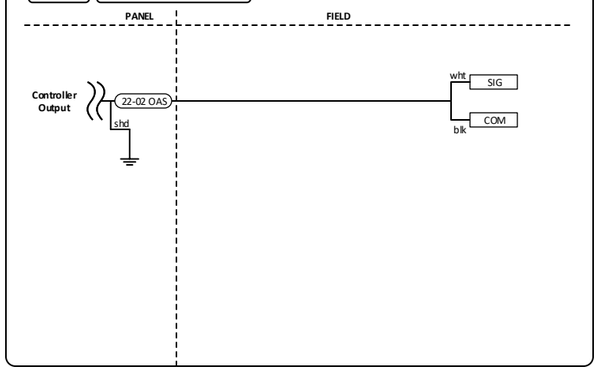
5 BO Valve/Damper 120VAC Open/Close Panel Power



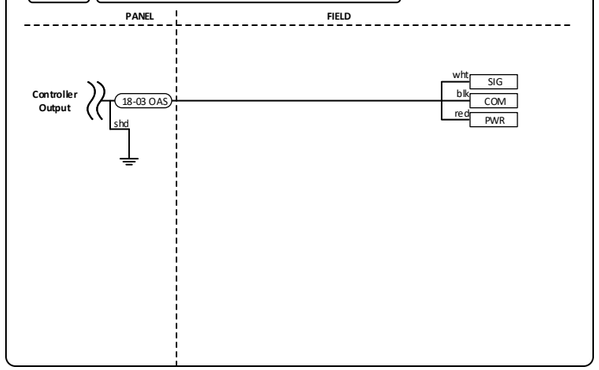
6 BO DX Enable



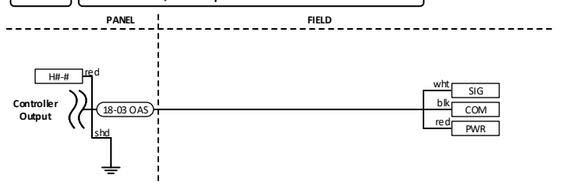
7 AO 0-10V Signal



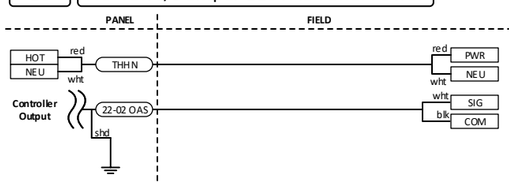
8 AO Valve/Damper Internal Power



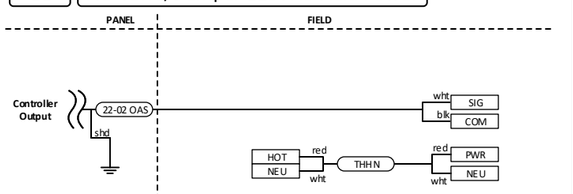
9 AO Valve/Damper 24VAC Panel Power



10 AO Valve/Damper 120VAC Panel Power



11 AO Valve/Damper 120VAC Field Power

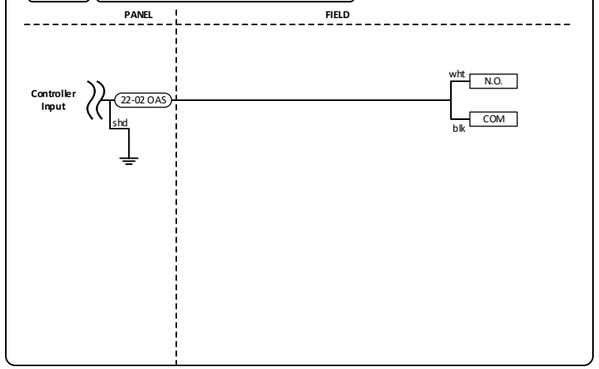


PROJECT TITLE	MSD TRANSPORTATION BUILDING
PROJECT NUMBER	PAS1976-SRV2245
BY: KK	
PRELIMINARY: 2	
PRINTED 01/11/2022	Ver. 4.8.0
DRAWING TITLE	DETAILS-1
DRAWING NUMBER	DWG 98.00

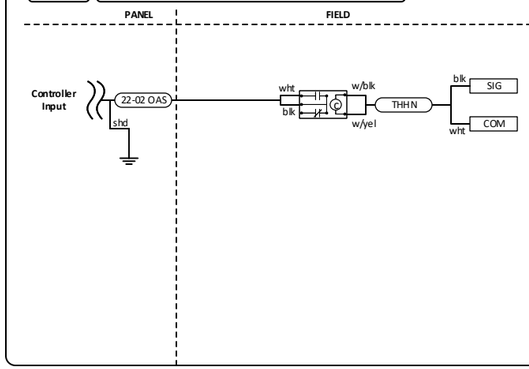
Delta CONTROLS
A Delta Group Company

DETAILS-2

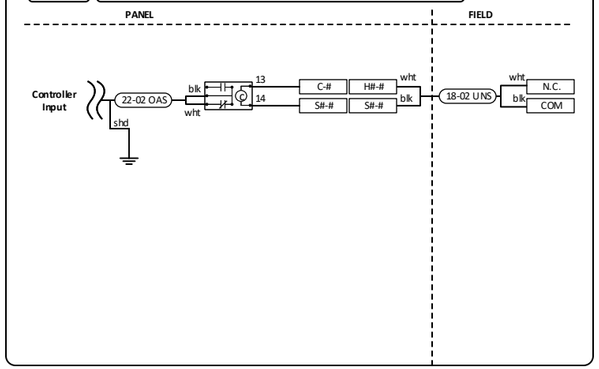
1 BI Dry Contact Alarm/Status



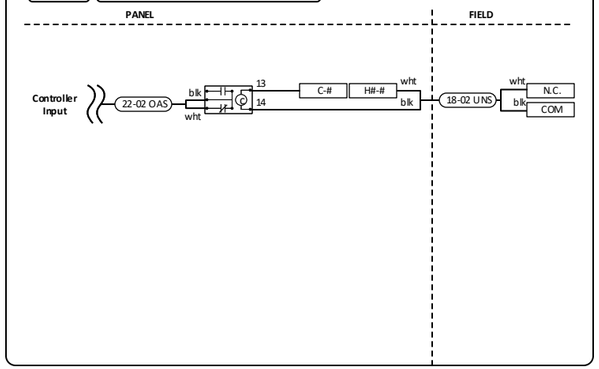
2 BI Relay Dry Contact Alarm/Status



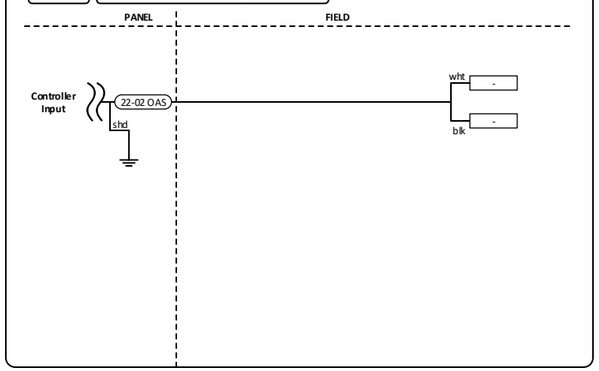
3 BI Relay Safety Interlock Freeze/Pressure



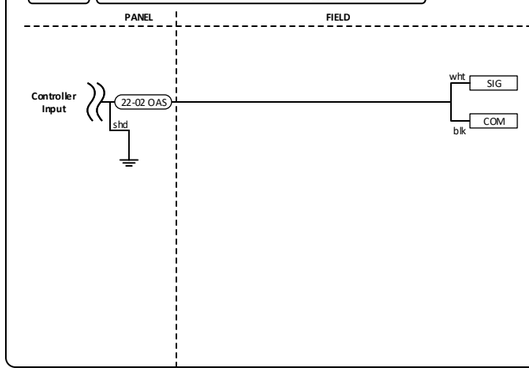
4 BI Relay Safety Interlock



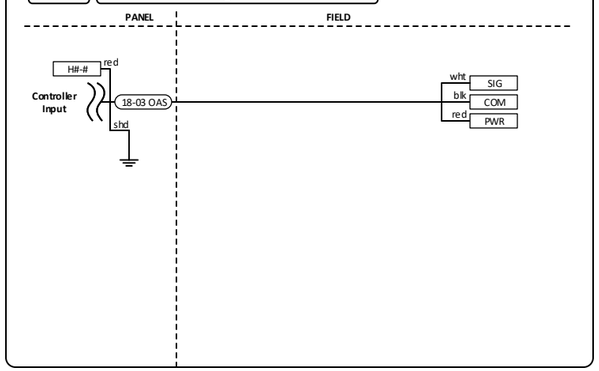
5 AI Resistive Temperature



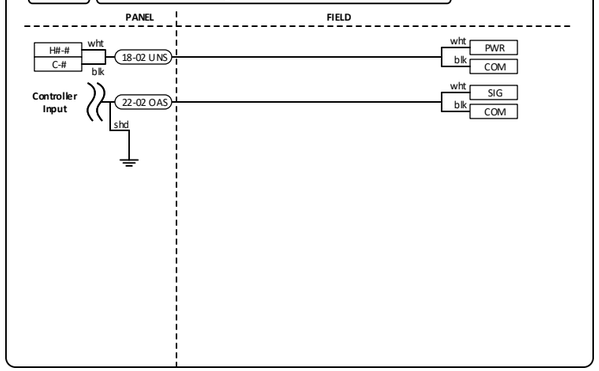
6 AI 0-5VDC/0-10VDC Amps/Feedback



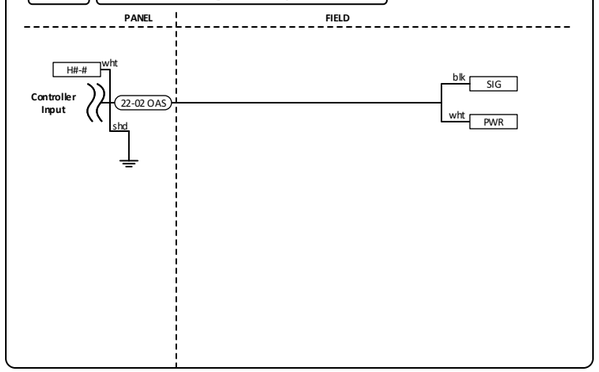
7 AI 0-10VDC Signal Panel Power



8 AI 0-10VDC Signal Isolated Panel Power



9 AI 4-20mA Signal Loop Powered



PROJECT TITLE: MSD TRANSPORTATION BUILDING			DRAWING TITLE: DETAILS-2
PROJECT NUMBER: PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022	Ver. 4.8.0	DRAWING NUMBER: DWG 98.01

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VFD SCHEDULE

VFD SCHEDULE															
					MOTOR							VFD			
MARK	EQUIPMENT SERVED	location	room #	room nam	HP	BHP	RPM	VOLTS	PH	MCA	FLA	VFD	DISCONNECT	BYPASS	VFD Model
Supply Fan V	AHU-C1	?	?	?	?	?	?	480	3	?	?	YES	?	?	ACH-580

PROJECT TITLE
MSD TRANSPORTATION BUILDING

PROJECT NUMBER
PAS1976-SRV2245

BY: KK
PRELIMINARY: 2
PRINTED 01/11/2022 Ver. 4.8.0

Delta™ CONTROLS
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DRAWING TITLE
VFD SCHEDULE

DRAWING NUMBER
DWG 98.02

MASTER BOM

BILL OF MATERIALS				
MANUFACTURER	VENDOR	VENDOR P/N	DESCRIPTION	QTY
	TEAM SOLU	QUOTE	SEE VFD SCHEDULE	1
AUTOMATION DIRECT	TEAM SOLU	QUOTE	ECX2070-24 BUZZER, 25MA, 24VAC/DC, 80DB	1
BAPI	DELTACON	400083	ZPS-ACC10 OUTSIDE AIR PRESSURE PICKUP PORT, WALL	2
BAPI	DELTACON	400160	BA/10K-3-D-4" DUCT TEMP SENSOR, 4 STAINLESS STEEL	12
BAPI	DELTACON	400328	ZPS-ACC07 ZONE PRESSURE ACCESSORY, STATIC PRESSUR	1
BAPI	DELTACON	400399	ZPS-LR-EZ-NT-IN EZ LOW PRESSURE SENSOR, 0.1-1INCH	2
BAPI	DELTACON	400429	ZPS-ACC20 LOW PROFILE PICK-UP PORT	2
DELTA CONTROLS PRODUCTS	DELTACON	151924	151924 TRM 768 NETWORK TERMINATOR (MS/TP)	2
DELTA CONTROLS PRODUCTS	DELTACON	301604	301604 EBM GR-2 ENTELIBUS SYSTEM CONTROLLER W/ETHER	3
DELTA CONTROLS PRODUCTS	DELTACON	311596	311596 EBCON-2 ENTELIBUS SYSTEM CONTROLLER W/ETHER	1
DELTA CONTROLS PRODUCTS	DELTACON	311601	311601 EBX-04 ENTELIBUS EXPANDER BACKPLANE (4 SLOT	3
DELTA CONTROLS PRODUCTS	DELTACON	333010	333010 EZVP-440-AB ENTELIZONE VAV CONTROLLER (PROG	12
DELTA CONTROLS PRODUCTS	DELTACON	335368	335368 EZNS-T100M-ND-SM-000-WWG ENTELIZONE	2
DELTA CONTROLS PRODUCTS	DELTACON	337364	337364 EZNS-T100CH-ND-SC-000-WWG ENTELIZONE NETWOR	12
DELTA CONTROLS PRODUCTS	DELTACON	337370	337370 EZNS-T100CHM-ND-SC-000-WWG ENTELIZONE NETWO	1
DELTA CONTROLS PRODUCTS	DELTACON	375601	375601 EBM-440-M ENTELIBUS MODULE (4 UIS,4 AOS WIT	3
DELTA CONTROLS PRODUCTS	DELTACON	375604	375604 EBM-404-H ENTELIBUS MODULE (4 UIS,4 BOS WIT	2
DELTA CONTROLS PRODUCTS	DELTACON	375606	375606 EBM-800 ENTELIBUS MODULE (8 UIS)	3
DELTA CONTROLS PRODUCTS	DELTACON	375609	375609 EBM-D400R4-H ENTELIBUS MODULE (4 BIS,4 RELA	3
DWYER INSTRUMENTS, INC.	DELTACON	413077	1900-5-MR DIFFERENTIAL PRESSURE SWITCH, RANGE 1.40	1
FUNCTIONAL DEVICES INC.	DELTACON	403195	PSH500A ENCLOSED 5-100VA 120/240 TO 24VAC UL CLASS	1
FUNCTIONAL DEVICES INC.	DELTACON	403319	RIBRL1C DIN MOUNT RELAY 10 AMP SPDT WITH 10-30 VAC	3
FUNCTIONAL DEVICES INC.	DELTACON	403386	RIBMNLB-4 PANEL RELAY 2.75 TRACK-MOUNT RELAY LOGIC	2
FUNCTIONAL DEVICES INC.	DELTACON	403464	RIBU2C ENCLOSED RELAYS 10AMP 2 SPDT 10-30VAC/DC/12	1
FUNCTIONAL DEVICES INC.	DELTACON	403501	RIBXKTA SOLID CORE, ADJUSTABLE CURRENT SWITCH, 0.5	3
IDEC	KELE	AP8M122-G	PILOT LIGHT MINIATURE 8MM FLAT LENS ACDC 24V GREE	3
IDEC	KELE	AP8M122-R	PILOT LIGHT MINIATURE 8MM FLAT LENS AC/DC 24V RED	8
KELE	DELTACON	499777	TSA-DOP LOW LIMIT,MANUAL RESET, SPDT	2
KELE	DELTACON	499915	ABW111 PUSH BUTTON 1NO 1NC MOMENTARY FLUSH-3 COLO	2

PROJECT TITLE MSD TRANSPORTATION BUILDING			DRAWING TITLE MASTER BOM
PROJECT NUMBER PAS1976-SRV2245	BY: KK PRELIMINARY: 2 PRINTED 01/11/2022 Ver. 4.8.0	Delta™ CONTROLS A Delta Group Company	DRAWING NUMBER DWG 98.03

NCHS SCHNEIDER ELECTRIC RETROFILL SCOPE

Switchboard MDPA

Sections #1, 4, 7 - Retrofills

- Remove the (3) existing 2500A fused Square D Bolted Pressure switches and install with new breakers.
- Breakers shall be the following (no equal):
    - Square D Masterpact NW
    - Micrologic 6.0P trip unit (LSIG)
    - Rated at 100 kA
    - Kirk Key
    - MDGF interface module w/ MDGF current transformers
    - ERMS switch for each breaker

Section #2 - Retrofill

- Remove the existing 1600A P-Frame breaker and install with a new R-Frame breaker
- Breaker shall be the following (no equal):
    - Square D R-Frame Breaker
    - Micrologic 5.0P trip unit (LSI)
    - Rated at 65 kA
    - ERMS switch

Section #3 - Retrofill

- Remove the existing 1600A P-Frame breaker and install with a new R-Frame breaker
- Breaker shall be the following (no equal):
    - Square D R-Frame Breaker
    - Micrologic 6.0P trip unit (LSIG)
    - Rated at 65 kA
    - ERMS switch

Section #6 - Retrofill

- Remove the existing 1200A N-Frame breaker and install with a new P-Frame breaker
- Breaker shall be the following (no equal):
    - Square D R-Frame Breaker
    - Micrologic 5.0P trip unit (LSI)
    - Rated at 65 kA
    - ERMS switch

Breaker Retrofills Notes

- All circuit breaker retrofill work to be done by Square D Field Services – no equal.
- Electrical contractor will need to provide labor for the duration of work done by Square D Field Services.
- Work to be done during normal working hours (Monday-Friday, 8am-5pm). An outage of approximately 10 to 12 hours per day per lineup is expected to perform the work.

- Site measurements will be required for the retrofills. This will require a full bus outage of up to 8 to 10 hours per day per lineup.

Molded Case Breaker Replacement

- Electrical contractor to remove the existing molded case circuit breakers and replace with the following Square D breakers (no equal).
  - Qty 2 – 150A H-Frame
  - Qty 3 – 800A M-Frame
  - Qty 1 – 1200A P-Frame
  - Qty 1 – 350A M-Frame
  - Qty 1 – 60A H-Frame
  - Qty 1 – 250A J-Frame

Power Metering

- Square D Field Services will provide and install (2) PM8000 Power Meters (no equal) for the two new main breakers.
- Electrical contractor will need to provide labor for the duration of work done by Square D Field Services.

Additional Notes

- A system coordination study is required for the new breaker settings.
- A power factor analysis is required. This analysis will require an additional outage.
- Please contact Chris Katzfey @ CED for a quote.

Chris Katzfey
chris@cedindy.com
Cell – 317-827-9584

Switchboard MDPB

Sections #2, 5, 8 - Retrofills

- Remove the (3) existing 2500A fused Square D Bolted Pressure switches and install with new breakers.
- Breakers shall be the following (no equal):
  - Square D Masterpact NW
  - Micrologic 6.0P trip unit (LSIG)
  - Rated at 100 kA
  - Kirk Key
  - MDGF interface module w/ MDGF current transformers
  - ERMS switch for each breaker.

Section #3 - Retrofill

- Remove the existing 1600A P-Frame breaker and install with a new R-Frame breaker
- Breaker shall be the following (no equal):
  - Square D R-Frame Breaker
  - Micrologic 5.0P trip unit (LSI)
  - Rated at 65 kA
  - ERMS switch

Section #9 - Retrofill

- Remove the existing 2000A P-Frame breaker and install with a new R-Frame breaker
- Breaker shall be the following (no equal):

- Square D R-Frame Breaker
- Micrologic 5.0P trip unit (LSI)
- Rated at 65 kA
- ERMS switch

Section #10 - Retrofill

- Remove the existing 1200A N-Frame breaker and install with a new P-Frame breaker
- Breaker shall be the following (no equal):
  - Square D P-Frame Breaker
  - Micrologic 5.0P trip unit (LSI)
  - Rated at 65 kA
  - ERMS switch

Section #1 (HD2) - Retrofill

- Remove the existing 1600A P-Frame breaker and install with a new R-Frame breaker
- Breaker shall be the following (no equal):
  - Square D R-Frame Breaker
  - Micrologic 5.0P trip unit (LSI)
  - Rated at 65 kA
  - ERMS switch

Breaker Retrofills Notes

- All circuit breaker retrofill work to be done by Square D Field Services – no equal.
- Electrical contractor will need to provide labor for the duration of work done by Square D Field Services.
- Work to be done during normal working hours (Monday-Friday, 8am-5pm). An outage of approximately 10 to 12 hours per day per lineup is expected to perform the work.
- Site measurements will be required for the retrofills. This will require a full bus outage of up to 8 to 10 hours per day per lineup.

Molded Case Breaker Replacement

- Electrical contractor to remove the existing molded case circuit breakers and replace with the following Square D breakers (no equal).
  - Qty 2 – 150A H-Frame
  - Qty 4 – 800A M-Frame
  - Qty 3 – 1200A P-Frame
  - Qty 2 – 350A M-Frame
  - Qty 2 – 60A H-Frame
  - Qty 2 – 250A J-Frame
  - Qty 1 – 400A M-Frame
  - Qty 2 – 600A M-Frame
  - Qty 1 – 200A J-Frame
  - Qty 1 – 700A M-Frame

Power Metering

- Square D Field Services will provide and install (2) PM8000 Power Meters (no equal) for the two new main breakers.

- Electrical contractor will need to provide labor for the duration of work done by Square D Field Services.

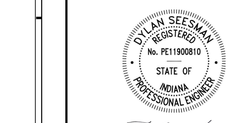
Additional Notes

- A system coordination study is required for the new breaker settings.
- A power factor analysis is required. This analysis will require an additional outage.
- Please contact Chris Katzfey @ CED for a quote.

Chris Katzfey
chris@cedindy.com
Cell – 317-827-9584

Electrical Contractor Responsibilities

- Schedule power outage with the local utility or production and absorb all related costs.
- Electrical contractor will need to provide labor for the duration of work done by Square D Field Services.
- Provide backup power plan during power outage.
- Provide lighting and 120V power with GFI for Field Services' on site electrical equipment, if required.
- Provide qualified personnel to de-energize / re-energize equipment as defined by NFPA70E.
- Provide qualified personnel to lock out equipment and verify zero energy state as defined by NFPA70E.
- Provide qualified individual for grounding of equipment as required.
- Provide proper workspace clear of obstruction with adequate temporary lighting for the walk ways and emergency exits. *Work will not commence until adequate lighting is in place. *
- Provide a phone with defined emergency contact and site location in event of an emergency.
- Provide an authorized person to sign all manifests for asbestos and PCB wastes (if any)
- To receive and store all material in safe, secure, temperature-controlled facility.
- Identification, labeling, and removal of all hazardous wastes.
- Labor and expense cost over runs due to:
    - Delays by others
    - Lack of equipment readiness for services outline herein



GENERAL NOTES

GN-1 As used in these General Notes:
"Drawings" means the latest structural design drawings, uno.
"Specifications" means the latest project specifications, uno.
"Contract Documents" is defined as the design drawings and the specifications.
"SER" is defined as the structural engineer of record for the structure in its final condition.
"Design Professionals" is defined as the owner's architect
"MEP" includes, but id not limted to Mechanical, Electrical, Plumbing, Fire Protection.
"Contractor" is defined to include any of the following: General Contractor and their Subcontractors, Construction Manager and their Subcontractors, Structural Steel Fabricator or Structural Steel Erector.
"Base Building Structure" is defined as the structural frame desinged by JQOL Global LLC.
"Structure in its final condition" means all structural elements shown on the structural contract documents are installed and completely connected and inspected with no outstanding non-comliance issues.

GN-2 The Contractor is solely responsible for the stability of the structure until the construction of the structure reaches its final condition.

GN-3 The Contractor is responsible for coordination of the Structural work with the Architectural, Civil, MEP contract documents, as well as any other applicable trades. The architectural, mechanical, electrical and plumbing aspects are not in the scope of these drawings. Therefore, all required materials and work may not be indicated. Refer to architectural drawings for all dimensions not shown on these drawings. Locations, sizes and numbers of all openings may not be completely indicated in the structural drawings. The respective contractor shall verify their work with all other disciplines.

GN-4 The contractor is solely responsible for the design, installation, and removal of temporary bracing and construction supports, for new and existing structures, as necessary to complete the project. No portion of the project while under construction is intended to be stable in the absence of the contractor's temporary supports and braces. Contractor shall retain a structural engineer licensed in the state in which the project is located to design temporary bracing and construction supports.

GN-5 The contract documents represent the structure only. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not limited to, bracing, shoring, underpinning, etc. the Engineer of Record is not responsible for the contractor's means, methods, techniques, sequences or safety procedures during construction.

GN-6 The specifications are an integral part of the contract documents and shall be used in conjunction with the structural drawings.

GN-7 The contractor shall verify all existing dimensions and conditions and coordinate with the structural drawings, architectural drawings, drawings from other consultants, project shop drawings and field conditions.

GN-8 Apply details, sections, and notes on the drawings where conditions are similar to those indicated by detail, detail title or note.

GN-9 Only use dimensions indicated on the drawings. Do not scale drawings.

GN-10 Assume equal spacing between established dimensions, if not indicated on drawings.

GN-11 Centerlines of columns and foundations coincide with grid line intersections, uno.

GN-12 Centerlines of grade beams and walls coincide with centerlines of foundations, uno.

GN-13 Centerlines of framing members coincide with column centerlines, uno.

GN-14 The contractor shall verify that construction loads do not exceed the capacity of the structure at the time the load is applied.

GN-15 Reactions and forces indicated are unfactored, Allowable Strength Design (ASD) loads.

GN-16 If Drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern.

GN-17 Notes and details shall take precedence over general structural notes. Where no details or sections are shown, construction shall conform to similar work on the project. Typical sections and details may not be cut on the plans, but apply unless noted otherwise.

GN-18 Verify all existing conditions prior to any construction or fabrication. If different than shown, notify engineer/architect immediately for modification of drawings.

GN-19 Provisions for future expansion:
Horizontal: None
Vertical: None

CODES AND DESIGN CRITERIA

CD-1 CODES
Building Code: 2012 International Building Code
Local Building Code: Indiana Building Code 2014
Code Standard: ASCE 7-10
Steel Standard: AISC 360-10 ASD
Steel Seismic Standard: AISC 341-10 ASD
Concrete Standard: ACI 318-11
Masonry Standard: TMS 402/602-11
Wood Standard: AITC/APA/NDS Current Ed.
Risk Category: II Normal Risk
Exposure Category: C

CD-2 ROOF LOADS

	Dead	Live	Snow
Main	10 psf	20 psf	20 psf

CD-3 SOILS
Soils Report: PSI Project Number: 00161395
Report Date: 5/10/2021

	Spread	Wall
Allowable Bearing Pressure, qa:	2300 psf	2300 psf
Soil Density, yt:	120 pcf	
Minimum FOundation Bearing Depth:	30 in	

CD-4 SLAB ON GRADE
Compacted Fill Thickness 6 in
Compaction Specification: 95% Modified Proctor D-1557

CD-5 SNOW DESIGN CRITERIA
Ground Snow Load, Pg: 20 psf
Flat Roof Snow Load, Pf: 20 psf
Minimum Snow, Pm: 20 psf
Importance Factor, Is: 1.0
Exposure Factor, Ce: 1.0 Partially
Thermal Factor, Ct: 1.0 Heated
Warm Slope Factor, Cs: 1.0

CD-6 WIND DESIGN CRITERIA
Ultimate Wind Speed, Vult: 120 mph
Design Wind Speed, Vasd: 90 mph
Enclosure Class: Enclosed
Internal Pressure Coefficient, GCpi: 0.18
Component & Cladding: See S-010 Loading Sheet
Roof Net Uplift: See S-010 Loading Sheet

CD-7 SEISMIC DESIGN CRITERIA
Importance Factor, Ie: 1.0
Ss: 0.150
S1: 0.083
SDS: 0.160
SD1: 0.133
Site Class: D
Seismic Design Category: B
Overstrength Factor, Ω: 1.25
Seismic Response Coefficient, CS: 0.107
Response Modification Coeff., R: 1.5
Unfactored Design Base Shear, V: 10.7% * W
Analysis Procedure: ELFA
Basic Seismic-Force-Resisting System: G. Cantilievered Column Systems Detailed to Conform to the Requirements
6. Timber Frames

014000 DELEGATED DESIGN

SSE-1 DELEGATED DESIGN REQUIREMENTS
A Specialty Structural Engineer (SSE), registered in the state of the project, shall be responsible for the structural design of the following products and systems complying with specific performance and design criteria indicated.

1. Pre Engineered Wood Trusses
2. Post and Beam Structure.
3. Post and Beam Structure Foundations.

SSE-2 The contractor is to review each submittal prior to forwarding to architect and structural engineer. The contractor is to stamp each submittal verifying that the following is addressed:

1. The shop drawing is requested.
2. The shop drawing is based on the latest design.
3. The architect' s and structural engineer' s comments from any previous submittals are addressed.
4. The work is coordinated among all construction trades.
5. Revisions from previous submittals are clearly marked by circling or clouds.
6. Submittal is complete.
7. Submittal does not include substitution request
8. Submittal shall include a stamp indicating project name and location, submittal number, specification section number.

The structural engineer shall return, without comment, submittals which the contractor has not stamped or which do not meet the above requirements. The structural engineer' s review of submittals shall be for general conformance with the design intent. No work shall be started without such review.

SSE-3 The structural engineer will return the shop drawing items within ten working days after having received the reproducible shop drawing.

020000 SHALLOW FOUNDATION AND SLAB ON GRADE NOTES

SF-1 Soil to be stripped, compacted and tested in accordance with the recommendations of the soils engineer and project specifications.

SF-2 Footings shall be placed on firm, undisturbed soil or on engineered fill. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.

SF-3 Slabs shall be placed on 6" compacted, free-draining, frost-free drainage course. Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve. All fill shall be compacted to a minimum dry density of 95% of the standard Proctor maximum dry density (ASTM-D698), placed in 6" to 8" lifts. Pea gravel may not be used as fill. Utility trenches and excavations under the foundations or slabs shall meet the same requirements. See soils investigation report for further recommendations.

SF-4 Undercutting of the soil for foundation and/or slab placement may be required. These drawings do not indicate the entire scope of undercutting, fill or bad soil removal that may be required to attain the design soil bearing pressures. It is the responsibility of the contractor to obtain a soils investigation report, before bidding, to assess the extent of excavation and compaction that may be required to meet the design criteria. The contractor shall retain the services of a soils engineer to monitor all backfilling operations and to inspect footing bearing material. A report certified by the soils engineer shall be furnished to the architect/engineer verifying that all foundations were placed on a material capable of sustaining the design bearing pressures.

SF-5 If dewatering is required, sumps shall not be placed within the foundation excavation.

SF-6 Maintain a maximum slope between adjacent footing bearing elevations of 2 horizontal to 1 vertical. Maintain a 2 horizontal to 1 vertical slope next to existing foundations to avoid undermining foundations.

SF-7 No horizontal joints are permitted in any foundation. Vertical joints are permitted only in wall footings.

SF-8 Shallow foundations may be earth-formed where the excavation permits. If earth-forming is used, add 2" to the width and length of all foundations.

SF-9 The bottom of all foundations shall be a minimum of 30" depth below final grade.

033000 CAST IN PLACE CONCRETE NOTES
(Foundations, Slabs, & Walls)

RC-1 All concrete shall have the following 28 day compressive strengths:

STRENGTH	LOCATION
4000 psi-0% AE	All foundations and footings
4000 psi-6% AE	Exterior slabs, piers, walls, columns, grade beams and concrete exposed to freezing
4000 psi-0% AE	Interior slabs, fill for metal deck and all other interior concrete

RC-2 All reinforcing shall conform to the following concrete cover:

COVER	LOCATION
3"	Foundations & Footings: All surfaces; Exterior Slabs: Bottom; Grade Beams & Trench Footings: All surfaces; All concrete cast against soil.
2"	Exterior Walls, All Piers & All Pilasters: All surfaces; Exterior Slabs: Top; All exterior concrete
1 1/2"	Interior beams & columns: All surfaces; All concrete not exposed to weather or in contact with ground.
3/4"	Interior slabs, Walls & joists

RC-3 Welded Wire Reinforcement (WWR) for slabs and fill for metal deck shall be placed in the upper-third of the slab or fill. See details.

RC-4 All reinforcing steel shall be detailed, supplied and placed in accordance with ACI 315, ACI 318 and CRSI MSP-1.

RC-5 All reinforcing steel shall be shop fabricated and, where applicable, shall be wired together and conform to ASTM A-615, Grade 60.

RC-6 Chamfer edges of exposed concrete 3/4", unless noted otherwise.

RC-7 Contractor shall make four, 6"x12" test cylinders for each 50 cubic yards of concrete poured for each days operation. Break 1 at 7 days, 2 at 28 days and retain spare.

RC-8 All welded wire fabric shall conform to ASTM A1064, Fy(min) of 65 ksi. All welded wire fabric laps shall be 8".

RC-9 All finished concrete, concrete formwork and falsework shall be in accordance with ACI 301. Contractor is solely responsible for the design and construction of all formwork, falsework and shoring.

RC-10 Provide sleeves for all openings in grade beams or walls to totally separate pipe from concrete.

RC-11 Foundations may be earth-formed where the excavation permits. If earth-forming is used, add 2" to the width, length & thickness of all foundations.

RC-12 Plastic Vapor Retarder: ASTM E 1745, Class A, not less than 10 mils (0.25 mm) thick, see specifications. Include manufacturer's recommended adhesive or pressure-sensitive joint tape.

RC-13 Adhesive Anchors and Adhesives Used for Reinforcing Anchorage:

1. The adhesive anchor system used for post-installed anchorage to concrete shall conform to the requirements of the most recently published ACI 355.4.
2. Adhesive anchors indicated are the Basis-of-Design. Approved equal meeting ACI 355.4 is permitted.
3. Bulk-mixed adhesives are not permitted.
4. Anchors shall be supplied as an entire system with manufacturer's recommendations adhered to.
5. Adhesive anchors shall be installed by qualified personnel trained to install adhesive anchors.
6. Installation of adhesive anchors horizontally or upwardly inclined shall be performed by personnel certified by the ACI/CRSI Adhesive Anchor Installer Certification program.
7. Adhesive anchors installed in horizontal or upwardly inclined orientations shall be continuously inspected during installation by an inspector specially approved for that purpose.

RC-14 Bonding agent for bonding fresh concrete to hardened concrete: ASTM C 1059/C 1059M, Type II, nonredispersible, acrylic emulsion or styrene butadiene.

061000 SAWN LUMBER NOTES

W-1 Size, species and grade for sawn lumber shall be as follows. All lumber shall be grade-stamped:

Size	Design Species	Design Grade	Alternate Species	Alternate Grade
2x4, 2x6	Spruce-Pine-Fir (SPF)	No.1/No.2	Douglas Fir-Larch (North)	No.1/No.2
2x8, 2x10, 2x12	Southern Pine (SP)	No. 1	Douglas Fir-Larch	No.1 & Better
4x4 and Larger	Southern Pine (SP)	No. 1	Douglas Fir-Larch	No.1 & Better

W-2 All wood, connections, accessories, and erection shall be in conformance with the current edition of NFPA National Design Specification.

W-3 All connectors shall be Simpson Strong-Tie, galvanized, unless otherwise approved by the EOR.

W-4 All bolts, washers and nuts shall be carbon steel, unless noted.

W-5 All nails to be common type.

W-6 All sill plates shall be treated with preservative treatment.

W-7 All exterior lumber permanently exposed to weather shall be pressure-treated.

W-8 Attach all sill plates to studs with (4) 8d common nails (toenail) or (2) 16d common nails (end nail).

W-9 Attach all top plates to studs with (2) 16d nails.

W-10 Comply with International Building Code Table 2304.9.1 for all fasteners not indicated.

W-11 See Wood Framed Wall Schedule and Shear Wall Schedule for additional fastening requirements.

W-12 Provide double joists under all non-load bearing walls.

W-13 Provide double joists and headers at all floor or roof openings exceeding typical sheathing span. Provide single headers to support sheathing at edges of openings less than typical sheathing span.

061101 ENGINEERED WOOD NOTES

EW-1 All manufactured engineered wood listed as been designed using product data from Weyerhaeuser Corporation. Engineered wood members supplied by other manufacturer's shall meet or exceed the criteria for the designated Weyerhaeuser Corporation product for the span, spacing, and loads indicated in the construction documents.

EW-2 All properties listed are for dry-use conditions.

EW-3 All connectors shall be manufactured by Simpson Strong-Tie Company.

EW-4 Contractor shall provide a complete installation of Manufactured engineered wood members, including but not limited to, all blocking, stiffeners, and similar items.

EW-5 Manufactured engineered wood shall be designed by the supplier to meet the project requirements indicated in the construction documents. Layout and design of members shall be signed and sealed by an Engineer licensed to practice in the project state, and submitted to the SER for review.

EW-6 All engineered wood shall be commercial grade.

EW-7 All engineered wood permanently exposed to weather shall be pressure-treated, coated or sealed. Comply with manufacture's recommendations.

LVL-1 Manufactured Laminated Veneer Lumber designated as LVL shall be supplied with the following minimum material properties, for 12" depths:
Extreme Fiber Stress in Bending, Edgewise: 2,600 psi
Extreme Fiber Stress in Shear, Horizontal: 285 psi
Modulus of Elasticity, Edgewise: 1,900,000 psi

PSL-1 Manufactured Parallel Strand Lumber designated as PSL shall be supplied with the following minimum material properties, for 12" depths:
Extreme Fiber Stress in Bending, Edgewise: 2,900 psi (Beam - 2.0E Parallam PSL)
Extreme Fiber Stress in Bending, Edgewise: 2,400 psi (Column - 1.8E Parallam PSL)
Modulus of Elasticity, Edgewise: 2,000,000 psi (Beam 2.0E)
Modulus of Elasticity, Edgewise: 1,800,000 psi (Column 1.8E)
Extreme Fiber Stress in Shear, Horizontal: 290 psi (Beam)

PSL-2 For all PSL members permanently or partially exposed to exterior conditions, provide the following:
PSL Parallam Plus Service Level SL2 AWPA Use Category UC3B

WIJ-1 Manufactured Wood I-Joists designated as Wood I-Joists shall be supplied to meet the minimum loading and depth requirements as indicated on the drawings, and the following:

Floor Maximum Total Deflection	Span / 360
Floor Maximum Live Deflection	Span / 480
Roof Maximum Total Deflection	Span / 240
Roof Maximum Live Deflection	Span / 360

OWT-1 Manufactured Wood Open Web Trusses designated as Open Web Trusses shall be supplied to meet the minimum loading and depth requirements as indicated on the drawings, and the following:

Floor Maximum Total Deflection	Span / 360
Floor Maximum Live Deflection	Span / 480
Roof Maximum Total Deflection	Span / 240
Roof Maximum Live Deflection	Span / 360

061600 WOOD STRUCTURAL PANEL NOTES

WS-1 All wood structural panels shall be plywood conforming to DOC PS-1 or DOC PS-2, or, oriented-strand-board (OSB) conforming to DOC PS-2. Sheathing shall meet the following minimum requirements, unless noted otherwise:

Roof: 19/32", Exposure 1, Structural 1, Span Rating 40/20, Square Edge, Nailed
Floor: 23/32", Exposure 1, Sturd-I-Floor, Span Rating 24" o.c., Tongue & Groove Edge, Glued and Nailed
Wall: 15/32", Exposure 1, Structural 1, Span Rating 32/16, Square Edge,Nailed

WS-2 Floor structural panels shall be Combination Subfloor-Underlayment, uno.

WS-3 Roof structural panel joints shall be staggered. Provide panel clips for all roof sheathing.

WS-4 All structural panels shall have long dimension perpendicular to supports. Provide 1/8" gap for all sheathing joints.

WS-5 Space all nails 3/8" minimum from panel or supporting member edge. Nails to penetrate supporting members by 1-5/8" minimum.

WS-6 Edge of openings through roofs or walls shall be nailed per boundary nailing requirements indicated in typical detail.

WS-7 See architectural roof plan to establish all elevations, openings, equipment and other requirements not indicated on structural drawings.

WS-8 All nails to be 10d common, unless noted otherwise. For fastening not indicated, comply with International Building Code Table 2304.9.1.

WS-9 All structural panels permanently exposed to weather shall be pressure-treated.

WS-10 All fasteners to cold formed steel framing shall be screws in lieu of nails. See details for screw size and spacing requirements.

061753 MANUFACTURED WOOD TRUSS NOTES

WT-1 Wood trusses shall be designed by the manufacturer to support the following loads:

Top Chord Dead & Top Chord Live: See General Notes
Bottom Chord Dead: 10 psf (Local Load, not added to Top Chord)
Wind & Seismic Loading: Per the 2014 Indiana Building Code. Refer to the Design Criteria Notes for design info.

Trusses shall meet the following deflection criteria, unless otherwise noted. Maximum live load deflection shall not exceed:

Roofs: L/240
Floors: L/480

WT-2 Wood trusses shall be designed by the manufacturer in accordance with the applicable provisions of the latest edition of the National Design Specification of the National Forest Products Association, The Design Specification for Metal Plate Connected Wood Trusses of the Truss Plate Institute (TPI), Wood Structural Building Components Association (SBCA) and the Indiana Building Code.

WT-3 Wood trusses shall be fabricated by a Truss Manufacturer who maintains written procedural and quality control manuals and engages in periodic auditing of fabrication practices and inspections as required by ANSI/TPI 1, Chapter 3. In addition, the Truss Manufacturer shall engage in periodic, unannounced auditing by an approved third-party inspection agency such as TPI for review. If the Truss Manufacturer cannot fulfill these requirements, the Structural Engineer of Record may, at his discretion, require or accept from the Truss Manufacturer, a letter sealed by a Professional Engineer registered in the State of Indiana verifying his inspection of the manufactured wood trusses supplied for this project. The SSE shall verify that the trusses are in compliance with the quality standards of ANSI/TPI 1, Chapter 3. The SSE shall have significant prior experience in the inspection of metal plate-connected wood trusses.

WT-4 Wood materials shall be Southern Pine, or Douglas Fir-Larch and shall be kiln-dried and used at 19% maximum moisture content. Provide Grade No. 2 or better as required to satisfy stress requirements.

WT-5 Connector plates shall be not less than 0.036 inches (20 gauge) in coated thickness, shall meet or exceed ASTM Grade A or higher and shall be hot-dip galvanized according to ASTM A-653 (coating G60). Minimum steel yield stress shall be 33,000 psi.

WT-6 Trusses shall be fabricated in a properly-equipped manufacturing facility of a permanent nature. Trusses shall be manufacture by experienced workmen, using precision cutting, jigging and pressing equipment under the requirements in quality control as indicated in ANSI/TPI 1, Chapter 3.

WT-7 Secondary bending stresses in truss top and bottom chords due to dead, live, and wind loads shall be considered in the design. Load duration factors shall be per the "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION".

WT-8 All girder trusses supporting other trusses of 2x framing members shall be a MINIMUM of (2) plies, unless otherwise approved. Refer to the Manufacturer's Truss Design Drawing for girder ply-to-ply connection requirements. Attach framing members or loads only after all girder plies are in place and properly fastened together, and the girder truss is properly braced to prevent lateral displacement. Refer to BCSI-B9 "Multi-Ply Girders" as published by SBCA and TPI for additional information.

WT-9 Truss-to-girder connection information shall be on the Mfr's Truss Design Drawing of the carried-truss, girder truss, or the Mfr's Truss Placement Drawing. Unless otherwise approved, all truss/joist hangers, strapping, ties, etc. shall be as manufactured by the Simpson Strong Tie Company.

WT-10 Unless otherwise shown or noted, ALL truss bearings shall be anchored using a mechanical fastener. As a minimum, provide SDWC screw anchor by by the Simpson Strong Tie, installed as shown in the details on these plans.

WT-11 Wood trusses shall be erected in accordance with the Truss Manufacturer's requirements. This work shall be done by a qualified and experienced contractor. Truss erection by an inexperienced or non-qualified contractor can result in construction collapse and/or serious injury damage.

WT-12 Where long span trusses (greater than 60' span) are used, refer to BCSI (especially BCSI-B1 and BCSI-B2) special recommendations and requirements for the installation and temporary restraint/bracing of long span trusses. Follow all BCSI recommendations and requirements for the installation and temporary restraint/bracing of long span trusses including consulting a registered Professional Engineer familiar with the installation and temporary restraint/bracing of long span trusses.

WT-13 The contractor shall provide all temporary and permanent bracing/restraints as required for safe erection and performance of the trusses. The guidelines set forth by the following joint publications of the Truss Plate Institute (TPI) and Structural Building Components Association (SBCA) shall be adhered to unless otherwise noted in the Contract Documents:

BCSI-B1	GUIDE FOR HANDLING, INSTALLING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.
BCSI-B2	TRUSS INSTALLATION AND TEMPORARY BRACING.
BCSI-B3	WEB MEMBER PERMANENT BRACING/WEB REINFORCEMENT
BCSI-B4	CONSTRUCTION LOADING
BCSI-B5	TRUSS DAMAGE, JOBSITE MODIFICATIONS AND INSTALLATION ERRORS.
BCSI-B6	GABLE END FRAME BRACING
BCSI-B7	TEMPORARY AND PERMANENT BRACING FOR PARALLEL CHORD TRUSSES
BCSI-B8	TOE-NAILING FOR UPLIFT REACTIONS
BCSI-B9	MULTI-PLY GIRDERS
BCSI-B10	POST FRAME TRUSS INSTALLATION AND BRACING
BCSI-B11	FALL PROTECTION AND WOOD TRUSSES

WT-14 Unless otherwise noted, permanent bracing shall consist of 2x4 stress-graded members spanning a minimum of four trusses and nailed at each intersection with a minimum of (2) 16d nails. Lap continuous bracing a minimum of 2'-0" (2 trusses). **Design and layout of of temporary and permanent bracing is the responsibility of the manufacturer.**

WT-15 Refer to Manufacturer's Truss Design Drawing for web members requiring web member permanent restraint or reinforcement. Continuous lateral restraints must ALWAYS be diagonally braced for rigidity.

WT-16 Wherever possible, the temporary erection bracing as described in BCSI-B2 shall be left in place to function as permanent bracing.

WT-17 'T' or 'L' reinforcement of the type described in BCSI-B3 shall be used as the means of resisting web member buckling forces in girder trusses and small-quantity trusses. Girder trusses shall be those trusses supporting other trusses, beams, or framing, or trusses more than 24" o.c. Small quantity trusses shall be those where because of the small quantity of similar trusses with aligned web members requiring bracing/restraint (such as parallel step-down trusses), the installation of continuous lateral restraints and the diagonal bracing for the continuous lateral braces is impractical using the methods of BCSI. Such 'T' or 'L' reinforcement shall be designed by the Truss Design Engineer and shown on the sealed Truss Design Drawings.

WT-18 Design all wood truss bearings using the compression perpendicular-to-grain value of the truss lumber OR the wall plate lumber/nailer, WHICHEVER IS LESS. The bearing length or area shown on the sealed truss drawings shall be based on this lesser value. Use additional truss plies or truss bearing enhancement devices to achieve the required bearing area. If the bearing enhancement device has a valid ESR report, it may be shown on the Truss Placement Plan instead of being shown on the sealed Truss Drawings.

WT-19 Trusses which are too tall for delivery to the jobsite in one piece may be manufactured in two or more sections and "piggybacked" at the jobsite. The contractor MUST install temporary and permanent bracing for the lower supporting trusses as shown on the Manufacturer's Truss Design Drawing and/or the Contract Documents BEFORE installing the cap trusses. The connection between the cap and base truss shall be shown on the sealed Truss Design Drawing. Provide, as minimum, 4x2 sleepers laid flat on the top chord with a minimum of two 16d nails (see Truss Design Drawing for any other or additional requirement). Provide 4' o.c. (brace to brace) diagonal bracing at 45 degrees to brace the sleepers. Install diagonal braces on the bottom side of the top chord in the cap area, unless otherwise specified by the Truss Design Engineer.

WT-20 When indicated on the plans or when a cap truss length exceeds 20', in lieu of the sleepers and diagonal bracing indicated above, structural wood sheathing on the top chord of the base truss in the cap area shall be used as the means of bracing/restraining the base truss in the cap area. The connection between the cap and base truss, shown on the sealed Truss Design Drawing, shall take this into account. Cap trusses must be directly above base trusses.

WT-21 Truss members and components shall not be cut, notched, drilled nor otherwise altered in any way without the written approval of the Truss Design Engineer (See Specialty Structural Engineer notes).

WT-22 Where trusses and/or wood joists and rafters are called to be supported by steel beams, provide continuous double 2x nailer(s) field-bolted to the top of the steel beam with 1/2" diameter carriage bolts spaced a maximum of 24" on center and staggered each side of beam web. Width of nailer to be width of beam flange +1/2"/-1/4", unless otherwise noted. carriage bolts may be over-tightened to compress the rounded head in the nailer to facilitate installation of continuous band/rim joists, rafters, trusses, etc.

WT-23 Coordinate final truss layout and truss web member configuration with mechanical, electrical and plumbing trades. Keep all mechanical chases free of trusses. Align floor truss web layout, including open Vierendeel panels for all parallel trusses with similar spans to provide maximum flexibility of MEP installation. Do not locate trusses at parallel plumbing walls.

WT-24 Submit complete shop drawings for all wood trusses showing member sizes, species, grade, moisture content, span, camber, dimensions, number of plies and truss ply-to-ply connections, reactions and bearing requirements, chord pitch, restraint/bracing requirements, and loadings including any girder loads, field assemby of multi-part trusses, and required cap truss to base truss connection. No reference to another drawing sheet, note external to that individual truss drawing, or detail not shown on that individual truss drawing may be used to convey any of this required information. Shop Drawings shall be submitted to the Structural Engineer of Record and shall bear the seal of a Professional Engineer registered in the State of Indiana.

ABBREVIATIONS LIST

AR	ANCHOR RODS
ABV	ABOVE
ACI	AMERICAN CONCRETE INSTITUTE
ADD'L	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
ALUM	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT
ARCH'L	ARCHITECTURAL
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
AWS	AMERICAN WELDING SOCIETY
L	ANGLE
BAL	BALANCE
BB	BOND BEAM
B/B	BACK TO BACK
BC	BOTTOM CHORD
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BLW	BELOW
BM	BEAM
BOTT	BOTTOM
BP	BEARING PLATE
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BSMT	BASEMENT
BTWN	BETWEEN
BUC	BUILT UP COLUMN
c	CAMBER
C/C	CENTER TO CENTER
CANT	CANTILEVER
CAIS	CAISSON
CFS	COLD FORMED STEEL
CJ	CONTROL AND/OR CONSTRUCTION JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COORD	COORDINATE
COMP	COMPACTED
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
CTR'D	CENTERED
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DLT	DEEP LEG TRACK
DO	DITTO
DN	DOWN
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
ENG	ENGINEER
ELEV	ELEVATION
ELECT	ELECTRICAL
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIV	EQUIVALENT
ES	EACH SIDE
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/	FACE OF
FD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH
FLR	FLOOR
FLG	FLANGE
FS	FARSIDE
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GL	GLULAM
GR	GRADE
HC	HOLLOW CORE
HD	HOLD DOWN
HGT	HEIGHT
HI	HIGH
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION
ID	INSIDE DIAMETER
IF	INSIDE FACE
INFO	INFORMATION
INT	INTERIOR
INV	INVERT
JST	JOIST
JT	JOINT
K	KIP
KO	KNOCK OUT
LB	POUND
LDG	LEDGE
LG	LONG
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LSL	LONG SLOTTED HOLES
LONG	LONGITUDINAL
LP	LOW POINT
LVL	LAMINATED VENEER LUMBER
MAS	MASONRY
MAT'L	MATERIAL
MAX	MAXIMUM
MBM	METAL BUILDING MFR
MCJ	MASONRY CONTROL JT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOM	MOMENT
MSW	MASONRY SHEAR WALL
MSL	MEAN SEA LEVEL
MTL	METAL
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE

O/O	OUT TO OUT
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OVER HEAD
OPNG	OPENING
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
OSB	ORIENTED STRAND BOARD
OSL	OUTSTANDING LEG
OVS	OVERSIZE HOLE
PAF	POWDER ACTUATED FASTENER
PC	PRECAST
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
PTN	PARTITION
R	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE(D) (ING) (MENT)
REQ'D	REQUIRED
REV	REVISION/REVISED
RO	ROUGH OPENING
RRD	ROOF RELIEF DRAIN
RTN	RETURN
RTU	ROOF TOP UNIT
RW	RETAINING WALL
SCHED	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SJ	SAWCUT JOINT
SJI	STEEL JOIST INSTITUTE
SL	SLOPED
SPA	SPACE(S)
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED HOLES
STD	STANDARD
STIFF	STIFFENERS
STL	STEEL
STRUCT	STRUCTURAL
SYMM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TIE BEAM
TC	TOP CHORD
TCX	TOP CHORD EXTENSION
TEMP	TEMPERATURE
TF	TRENCH FOOTING
THK	THICK
THKS	THICKENED SLAB
THR'D	THREADED
TL	TOTAL LOAD
TOP'G	TOPPING
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
w/	WITH
WD	WOOD
WO	WINDOW OPENING (MASONRY)
WP	WORKING POINT
WT	WEIGHT
WWF	WELDED WIRE FABRIC

ELEVATION TOP AND BOTTOM OF LIST

T/	"ELEVATION, TOP OF"
B/	"ELEVATION, BOTTOM OF"
T/BB	TOP OF BOND BEAM
T/BM	TOP OF BEAM
T/CONC	TOP OF CONCRETE
T/F	TOP OF FOOTING
T/LDG	TOP OF LEDGE
T/MAS	TOP OF MASONRY
T/P	TOP OF PIER
T/SLAB	TOP OF SLAB
T/STL	TOP OF STEEL
T/W	TOP OF WALL
T/GB	TOP OF GRADE BEAM
T/CAIS	TOP OF CAISSON
B/PL	BOTTOM OF PLATE
B/F	BOTTOM OF FOOTING

SPECIAL CHARACTERS

°	DEGREE
±	PLUS OR MINUS
⊕	ELEVATION
Ø	DIAMETER

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Produced DJS CDL

DYLAN SEESMAN No. PE11900810

Dylan Seesman

JQOL
QUALITY OF LIFE

#	Revision	Date
1	Phase 2B Add. #1	12.06.2021

1815 E. 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of
Washington
Township

WASHINGTON
TOWNSHIP SCHOOLS

CENTRALIZED BUS
STORAGE
Transportation Storage
Building

GENERAL NOTES
SCHEDULES

2-S-001

2-S-001_ GENERAL NOTES SCHEDULES
2019-067.CBS_M.S.D. of Washington Township_
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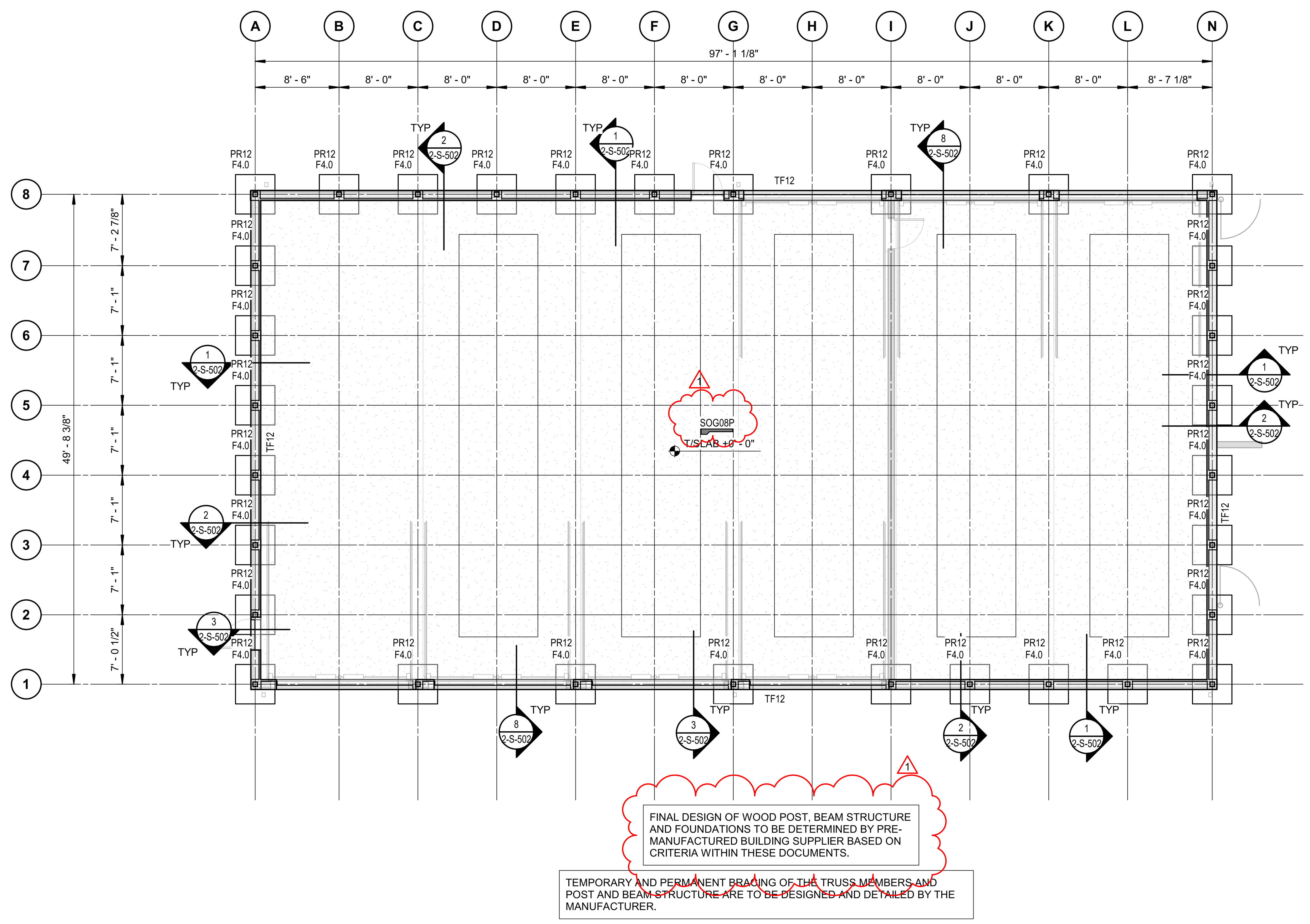
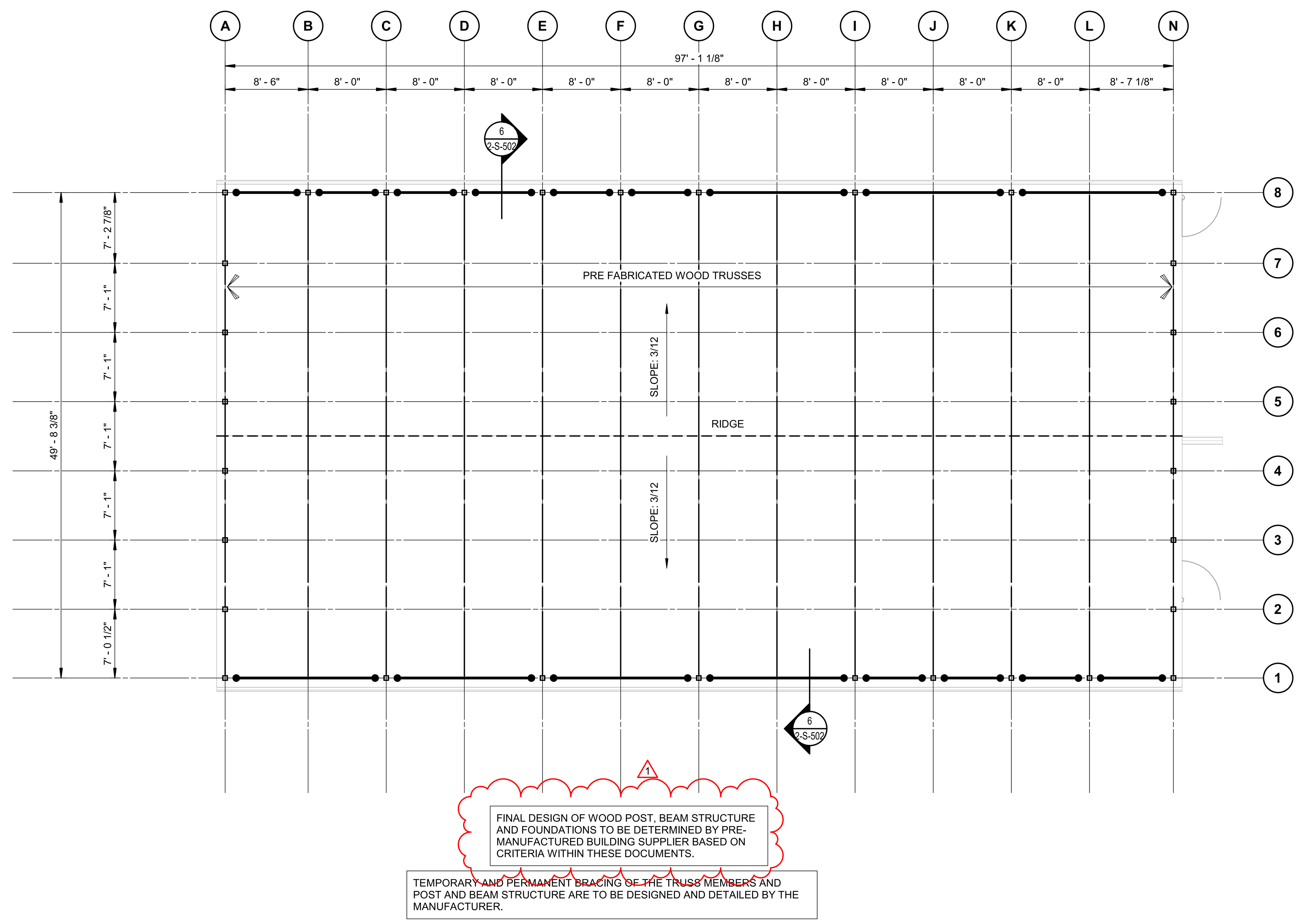


FOUNDATION PLAN

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

FOUNDATION PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
3. TOP OF FOOTING (T/F) -1'-10", UNO.
4. TOP OF CONCRETE WALL (T/CW) 0'-0" UNO.
5. POST LOCATIONS ARE ASSUMED AND TO BE VERIFIED BY POST AND BEAM MANUFACTURER.



FRAMING PLAN

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

FRAMING PLAN NOTES:

1. ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +0'-0", SEE CIVIL DRAWINGS.
2. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
3. COORDINATE DECK AND SLAB OPENINGS - EXACT SIZE AND LOCATION, WITH MECHANICAL AND PLUMBING CONTRACTOR DRAWINGS AND EQUIPMENT SUPPLIER.
4. VERIFY EQUIPMENT SIZE, WEIGHT, AND LOCATION WITH MECHANICAL CONTRACTOR.
5. TRUSS BEARING (T/BRG) 13'-8" U.N.O.

SCHMIDT ASSOCIATES
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www.schmidt-arch.com

Project No. 2019-067.CBS
Project Date 12.06.2021
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DYLAN SEESMAN REGISTERED No. PE11900810 STATE OF INDIANA PROFESSIONAL ENGINEER

JQOL QUALITY OF LIFE

#	Revision	Date
1	Phase 2B Add. #1	12.06.2021

1815 E. 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

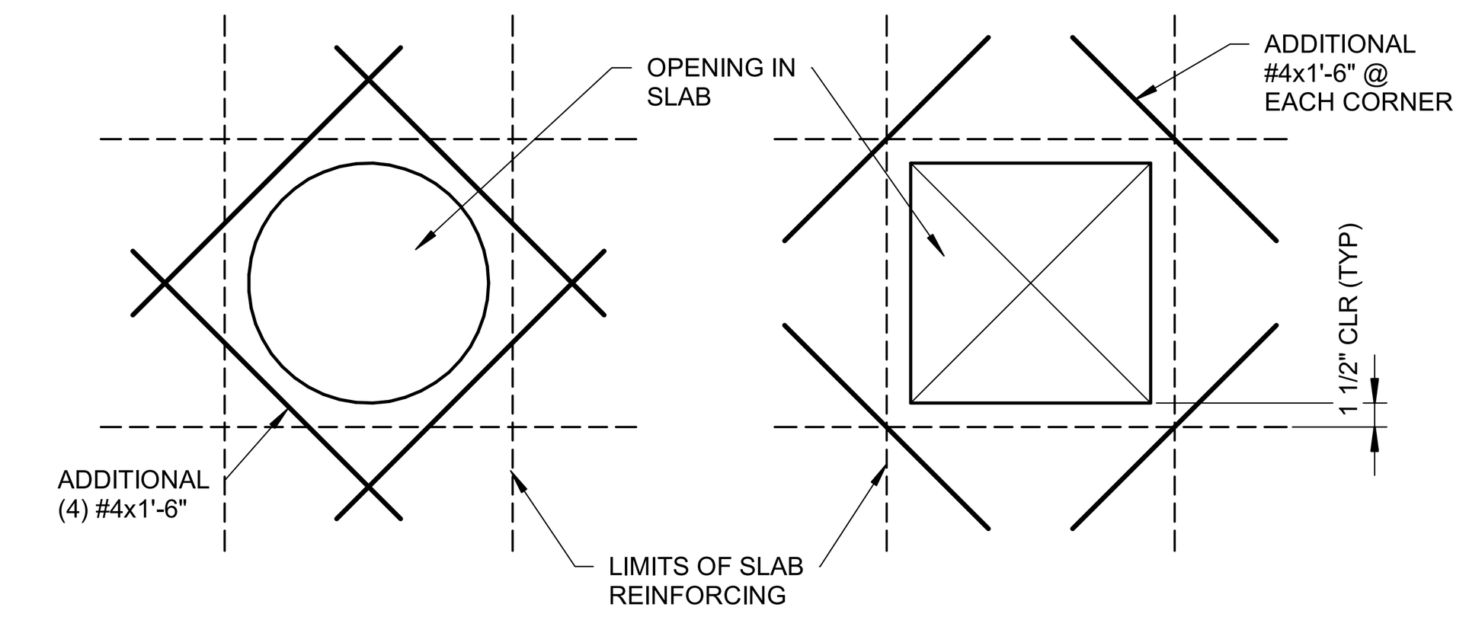
CENTRALIZED BUS STORAGE
Transportation Storage Building

PLAN VIEWS

2-SF101

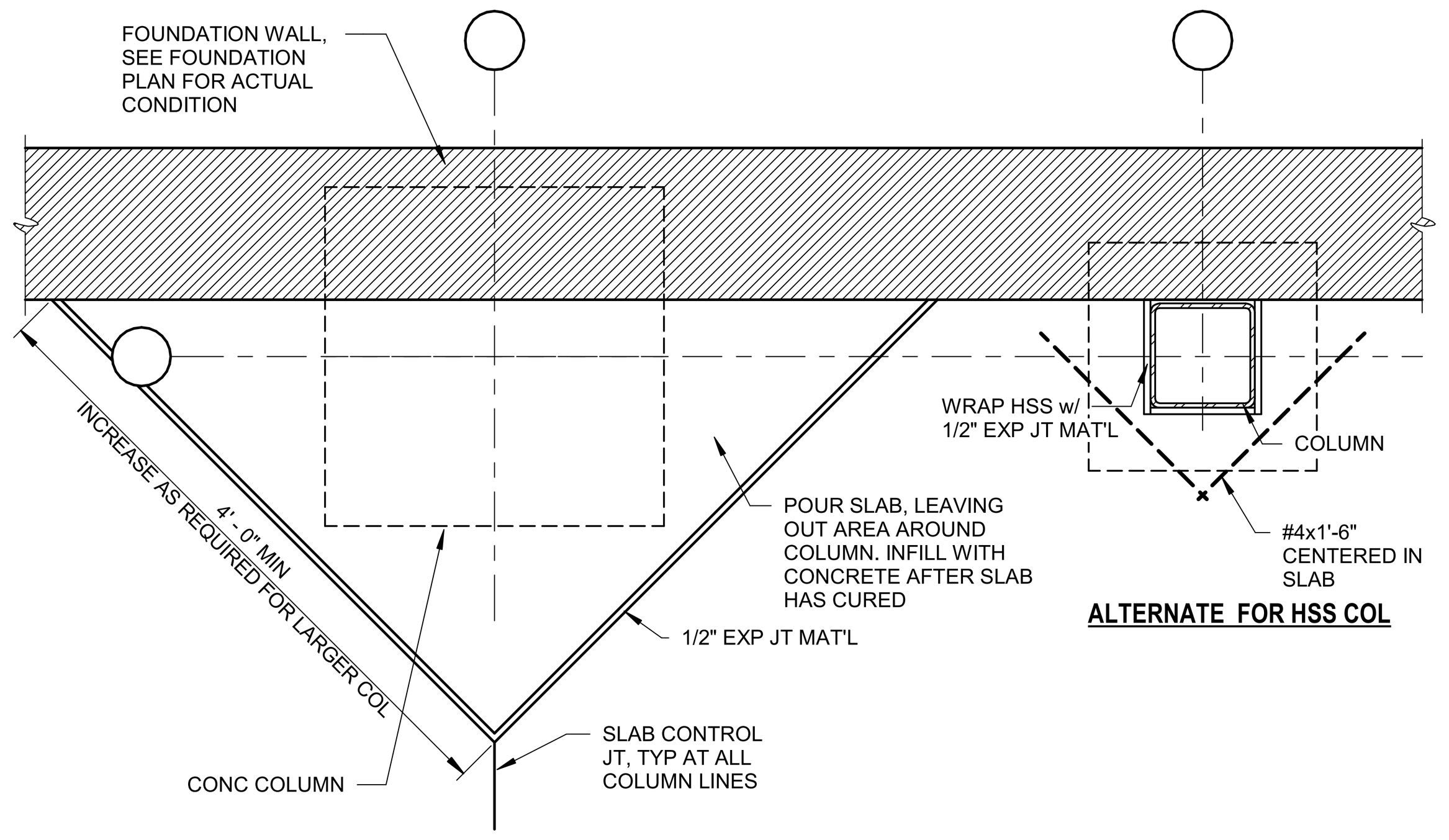
6 5 4 3 2 1

E



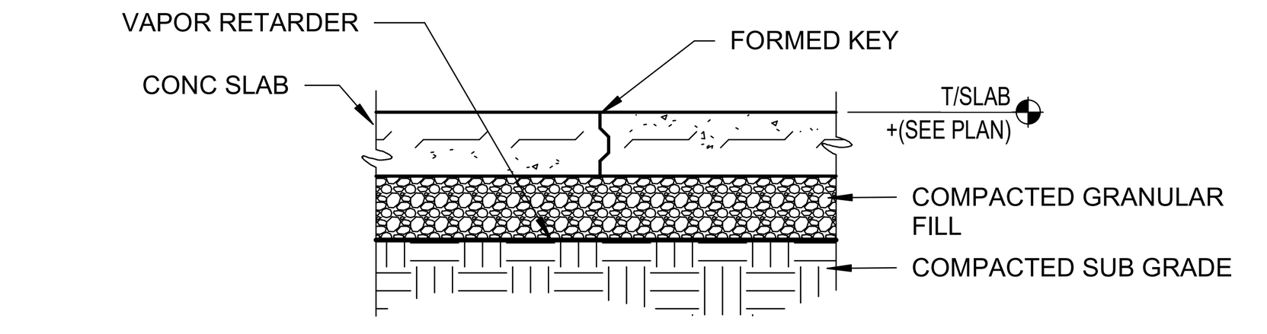
TYP SLAB ON GRADE OPENING (H)

SCALE: NTS



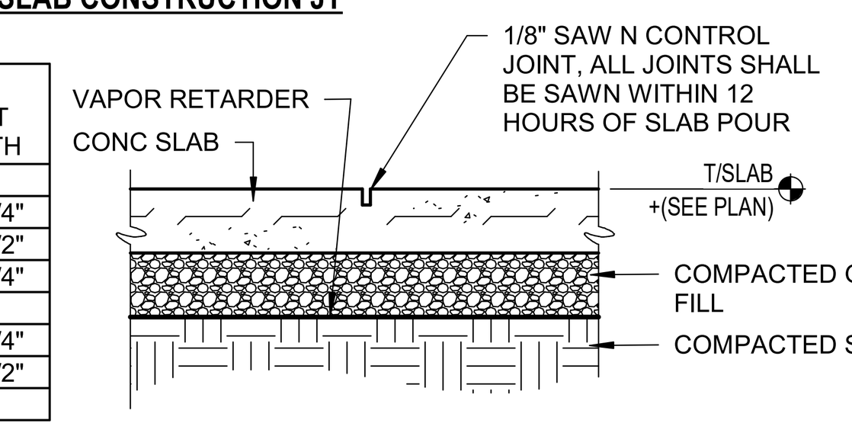
TYP COLUMN ISOLATION JOINT (D)

SCALE: NTS



TYP SLAB CONSTRUCTION JT

SLAB THICKNESS	MAX JT SPACING	JOINT DEPTH
4"	13'-0"	1"
5"	15'-0"	1 1/4"
6"	15'-0"	1 1/2"
7"	18'-0"	1 3/4"
8"	20'-0"	2"
9"	24'-0"	2 1/4"
10"	25'-0"	2 1/2"
1'-0"	25'-0"	3"

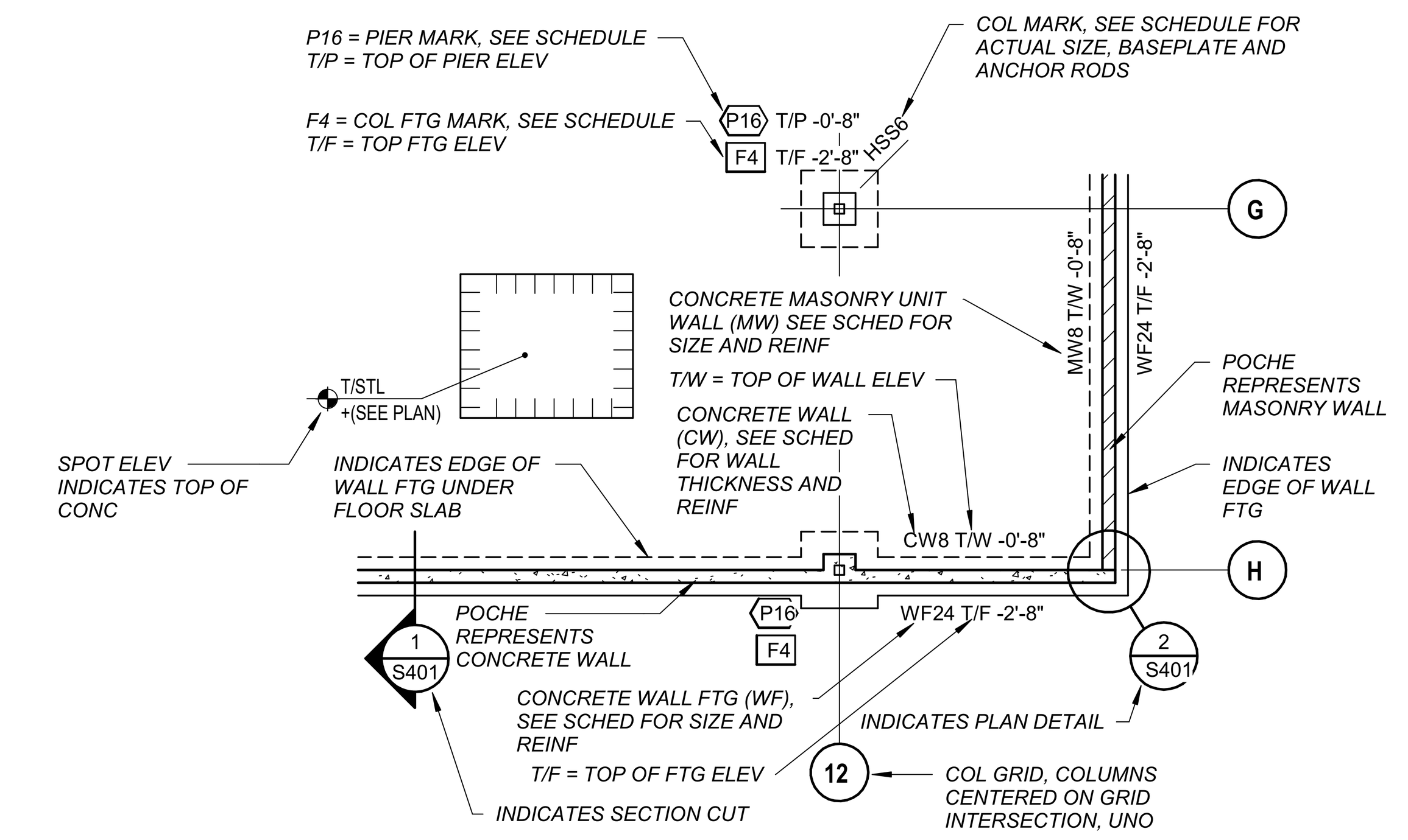


NOTE:
CONTRACTOR TO PROVIDE CONTROL JOINT LAYOUT, BASED ON MAXIMUM JOINT SPACING, UNO.

TYP SLAB CONTROL JT

TYPICAL CONCRETE SLAB JOINTS (A)

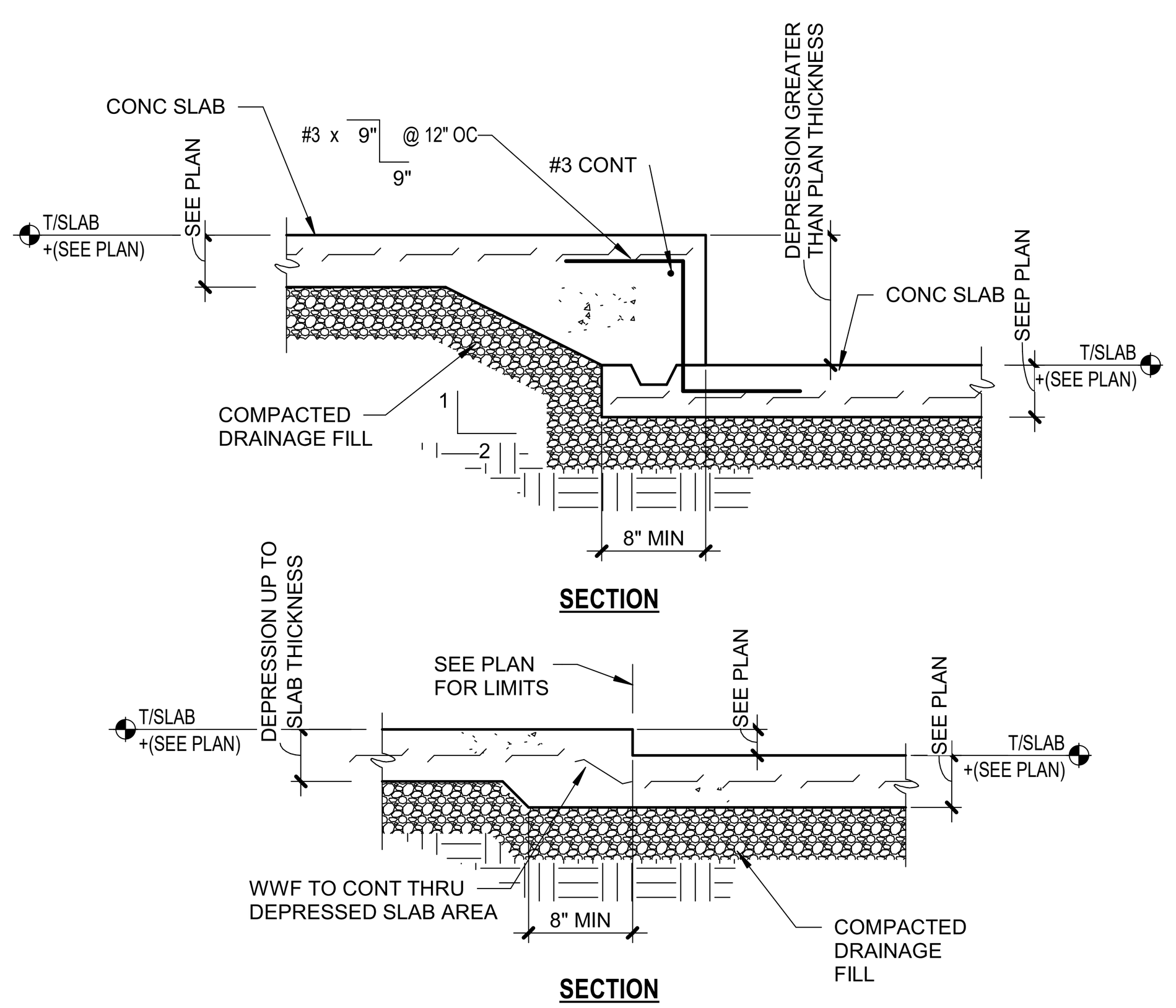
SCALE: NTS



FOUNDATION PLAN LEGEND

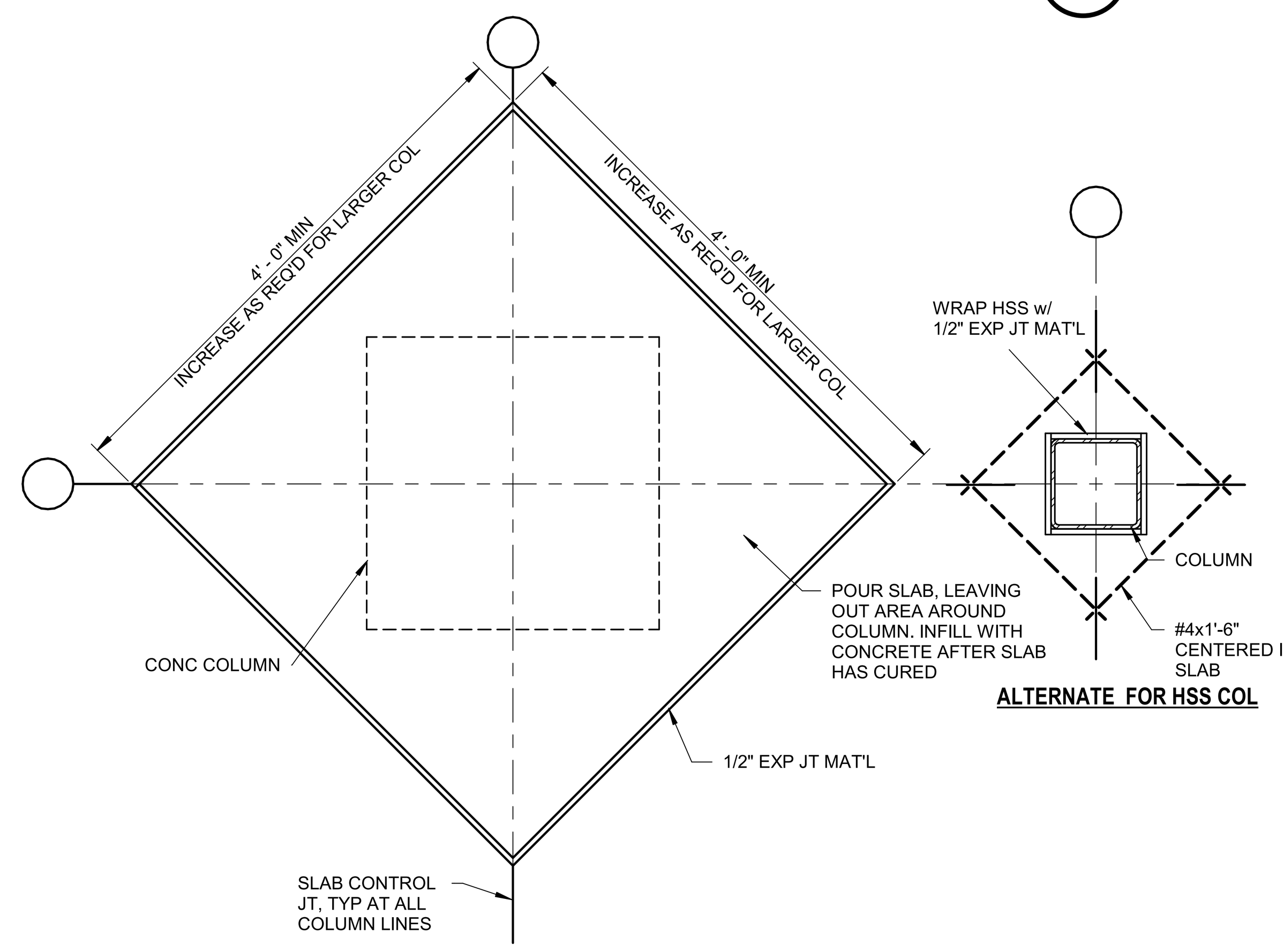
SCALE: NTS

D



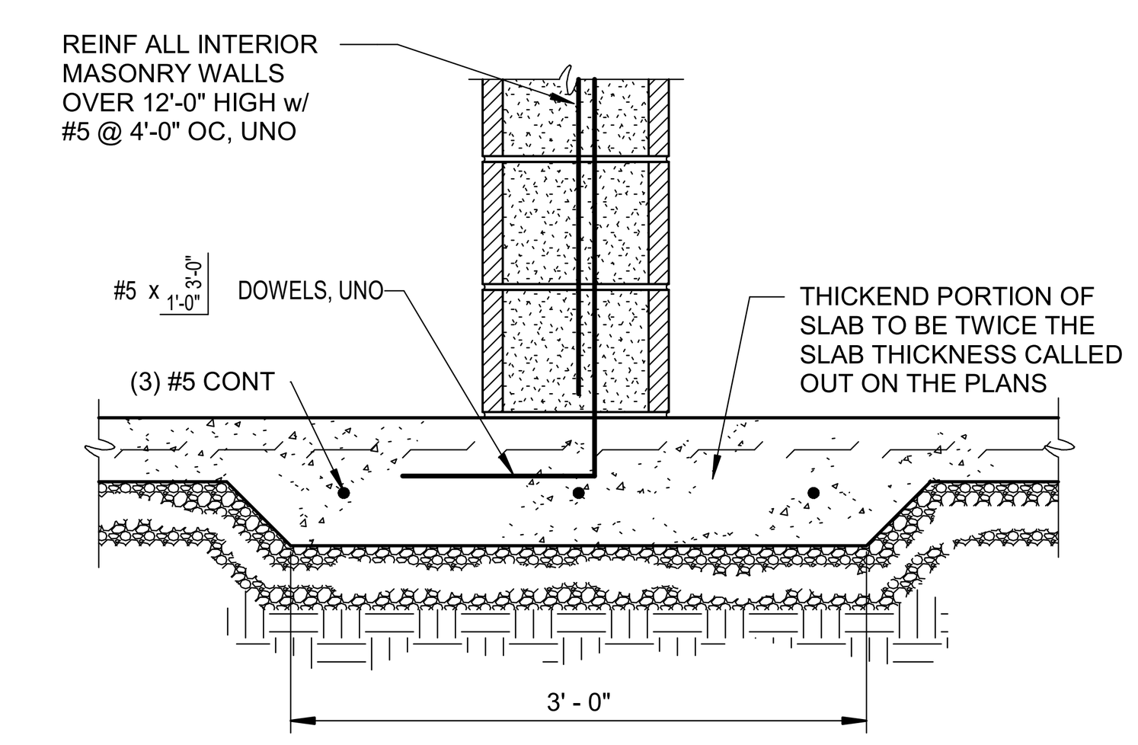
TYP DEPRESSED SLAB SECTIONS (J)

SCALE: NTS



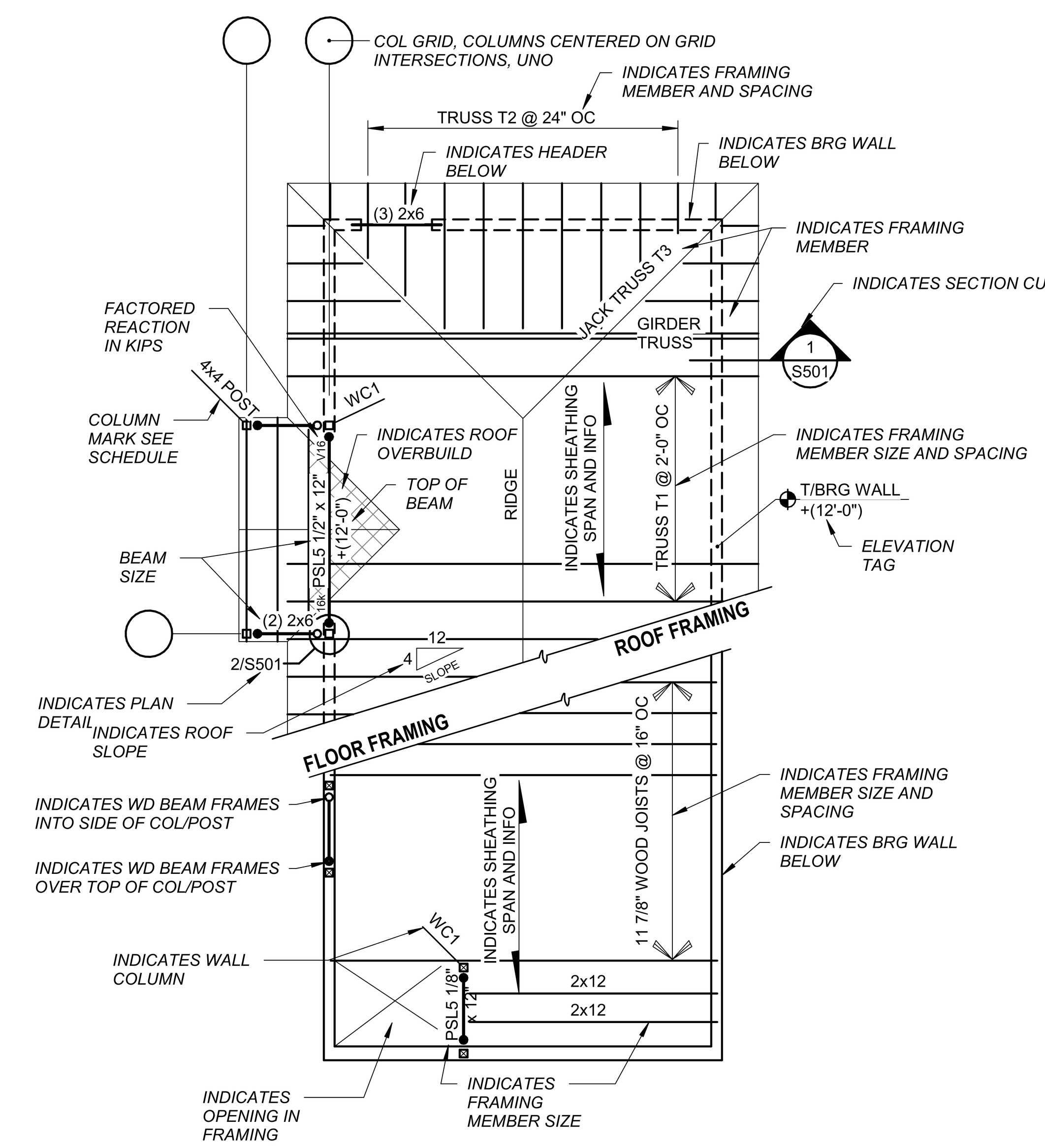
TYP COLUMN ISOLATION JOINT (E)

SCALE: NTS



TYPICAL THICKENED SLAB (B)

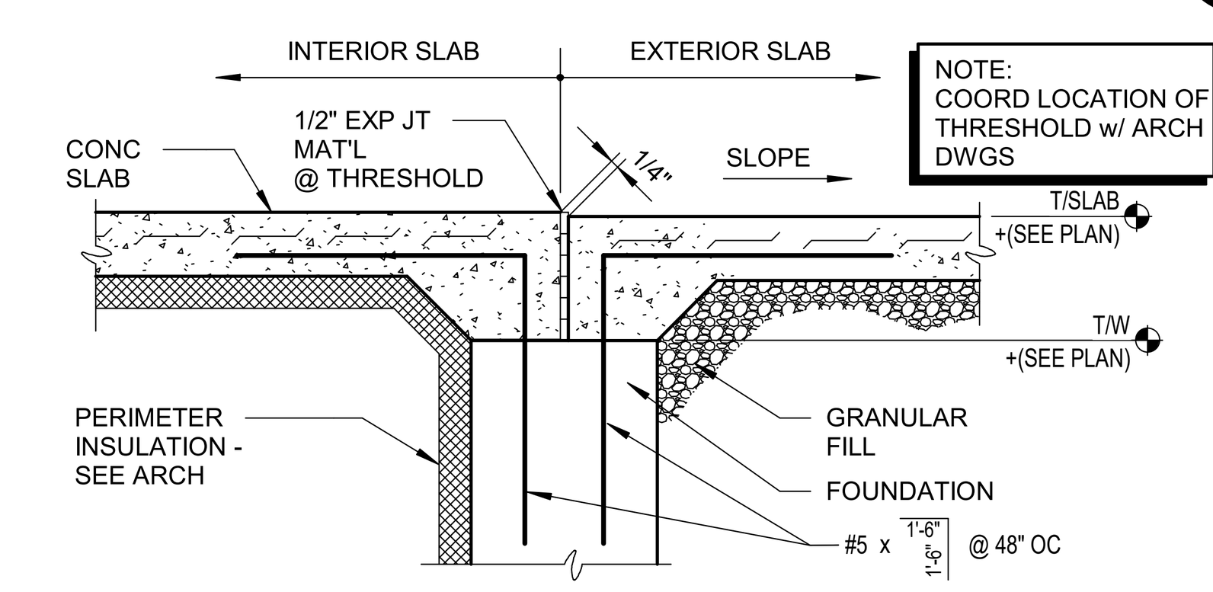
SCALE: NTS



C

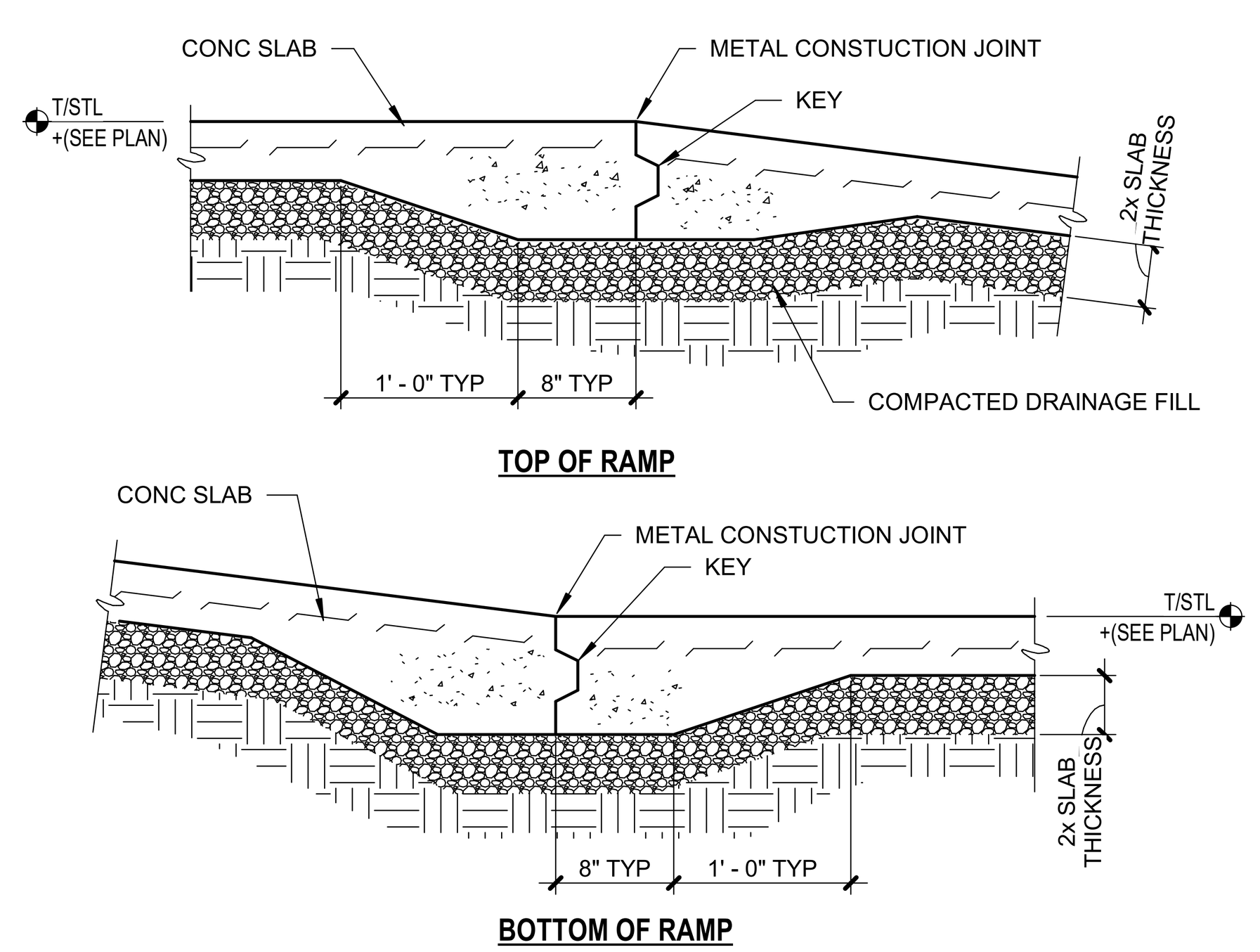
WOOD FRAMING PLAN LEGEND

SCALE: NTS

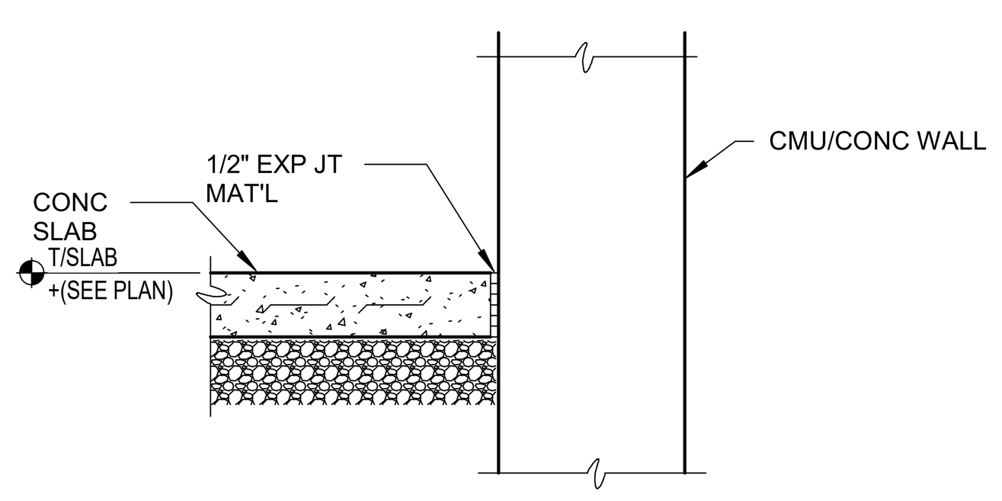


TYP SECTION AT ENTRY (F)

SCALE: NTS

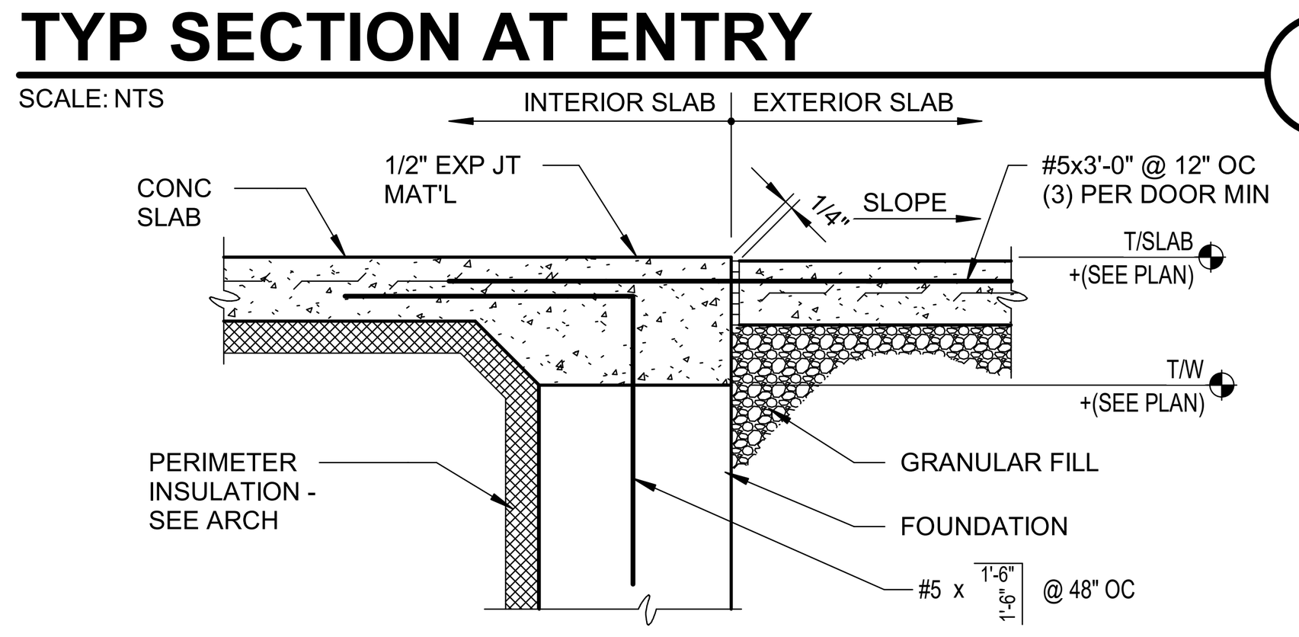


B



TYP EXPANSION JT AT WALL (K)

SCALE: NTS



TYP SECTION AT EXTERIOR SLAB (G)

SCALE: NTS

TYP CONCRETE RAMP DETAILS (C)

SCALE: NTS

COLUMN FOOTING SCHEDULE

	Ftg Dimensions			Bottom Reinforcing						
				Short Direction			Long Direction			
Mark	Width	Length	Thickness	No	Size	Length	No	Size	Length	Remarks
F4.0	4' - 0"	4' - 0"	1' - 2"	4	#5	3' - 6"	4	#5	3' - 6"	

Column Footing Schedule Notes:
1. Reinforcing clearance at bottom and sides of footings = 3"
2. Use concrete brick of CRSI Class 3, CHCP wire bar supports @ 36".

PIER SCHEDULE

	Pier Size		Vert Reinf		Ties			
Mark	Width	Length	No	Size	Size	Spa	Tie Type	Remarks
PR12	1' - 0"	1' - 0"	4	#6	#3	1' - 0"		

Pier Schedule Notes:
1. Provide 2 inch concrete cover over ties.
2. Space first tie 2" from top of footing, last tie 2" from top of pier.
3. Provide (2) ties in top of pier, spacing = 2" on center.
4. Provide CRSI typical bar bend T5 for all ties.
5. Provide CRSI typical bar bend T9 additional ties for all piers with more than four vertical bars.
6. Provide 90° Hook for all ties per CRSI detailing standards.

Trench Footing Schedule

Mark	Size		Longitudinal Reinforcement		Ties	Remarks
	Width	Depth	Top	Btm		
TF12	12"	36"	(2) #5	(2) #5	#3 @ 1'-0" O.C.	

NOTES:
1. FOLLOW ACI REQ. SPACING
2. REINFORCEMENT SHALL HAVE EQ/ SPACING UNO

1

SLAB ON GRADE SCHEDULE

Mark	Thickness	Reinforcing	Control Jt Depth	Reinf Clearance	Control Jt Spa	Vapor Retarder	Sub-Base Depth	Remarks
SOG08P	8"	6x6-W2.1xW2.1 WWF	2"	2 1/2"	16' - 0"	Plastic	6"	

Slab on Grade Schedule Notes:
1. Reinforcing clearance is from the top of slab.

A

6 5 4 3 2 1

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KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE
Transportation Storage Building

STRUCTURAL LEGENDS

2-S-501

DEMOLITION FLOOR PLAN NOTES

#	NOTE
1	REMOVE EXISTING INTERIOR WALL CONSTRUCTION IN ITS ENTIRETY TO LIMITS INDICATED INCLUDING, BUT NOT LIMITED TO DOORS, FRAMES, WINDOWS AND ALL MISCELLANEOUS FRAMING. FIELD VERIFY ALL EXISTING WALL CONSTRUCTION PRIOR TO DEMOLITION. REFER TO ARCHITECTURAL AND INTERIOR FLOOR PLANS FOR FINISH CONDITIONS AND DIMENSIONS. PATCH AND REPAIR EXISTING ADJACENT SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCITON.
2	REMOVE EXISTING SUSPENDED LAY-IN PANEL CEILING SYSTEM IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO THE CEILING PADS, GRID, SUSPENSION WIRES, AND ALL RELATED ANCHORS. PATCH AND REPAIR EXISTING SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION/FINISH.
3	REMOVE EXISTING EXTERIOR WALL CONSTRUCTION TO 8" BELOW FINISH FLOOR LINE IN ITS ENTIRETY TO LIMITS INDICATED. REMOVE ALL DOORS, FRAMES, WINDOWS AND MISCELLANEOUS FRAMING IN ITS ENTIRETY. PROTECT ALL EXISTING STRUCTURAL MEMBERS TO REMAIN. PREPARE ADJACENT SURFACES TO REMAIN FOR NEW WORK. REFERENCE A-SERIES AND I-SERIES FLOOR PLANS FOR FINISH CONDITIONS. REFER TO SECTION(S) FOR FURTHER DEFINITION OF DEMOLITION WORK.
4	REMOVE EXISTING CASEWORK IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO WALL CABINETS, BASE CABINETS, COUNTERTOPS, FILL PANELS, SINKS AND ALL RELATED TRIMS. PATCH AND REPAIR ALL EXISTING ADJACENT SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION/FINISH.
5	REMOVE EXISTING FLOOR FINISH IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO MATERIAL ADHESIVES/TACK STRIPS, TRANSITION STRIPS AND ALL ASSOCIATED WALL BASE. PATCH AND REPAIR EXISTING SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION/FINISH.
6	REMOVE EXISTING WALL MOUNTED TACK BOARDS, MARKERBOARDS, CHALKBOARDS ADHESIVES, ANCHORS AND ALL RELATED ACCESSORIES IN THEIR ENTIRETY. PATCH AND REPAIR EXISTING SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION/FINISH. SEE A-SERIES AND I-SERIES DRAWINGS.
7	REMOVE EXISTING LOCKERS AS INDICATED ON DRAWINGS. PATCH AND REPAIR AS REQUIRED FOR NEW CONSTRUCTION.
8	REMOVE EXISTING TOILETS, SINKS, URINALS AND ALL RELATED ACCESSORIES IN THEIR ENTIRETY INCLUDING, BUT NOT LIMITED TO TOILET PAPER DISPENSERS, GRAB BARS, MIRRORS AND SOAP DISPENSERS. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN. PREP FOR NEW CONSTRUCTION/FINISH. SEE P-SERIES DRAWINGS FOR PLUMBING SCOPE.
9	REMOVE EXISTING DOOR SYSTEM IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO THE DOOR, FRAME, SIDELIGHTS, GLAZING, HARDWARE AND ALL RELATED ANCHORS. PREP EXISTING OPENING FOR NEW CONSTRUCTION. PATCH AND REPAIR ALL ADJACENT SURFACES TO REMAIN FOR NEW CONSTRUCTION/FINISH.
10	REMOVE EXISTING GYPSUM BOARD BULKHEAD IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO THE GYPSUM BOARD, STUD FRAMING AND ALL ASSOCIATED ANCHORS. PATCH AND REPAIR EXISTING SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION/FINISH.
11	REMOVE EXISTING UNIFORM STORAGE LOCKERS. PROTECT DURING CONSTRUCTION
12	REMOVE EXISTING TOILET PARTIONS AND URINAL PARTITIONS IN THEIR ENTIRETY. PATCH AND REPAIR EXISTING SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION/FINISH.
13	REMOVE EXISTING STOREFRONT/ENTRY SYSTEM IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO THE GLAZING, FRAMING, SEALANTS, DOORS, HARDWARE AND ALL RELATED ANCHORS. PATCH AND REPAIR ADJACENT SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION/FINISH.

DEMOLITION FLOOR PLAN NOTES

#	NOTE
14	REMOVE EXISTING RECEPTION DESK IN ITS ENTIRETY INCLUDING, BUT NOT LIMITED TO THE COUNTERTOP, BASE CABINETS, CMU/STUD SUPPORT WALLS, WALL BASE AND ALL RELATED ANCHORS. PATCH AND REPAIR EXISTING WALL AND FLOOR SURFACES TO REMAIN AND PREP FOR NEW CONSTRUCTION/FINISH.
15	EXISTING SUSPENDED ACOUSTICAL CEILING SYSTEM TO REMAIN. PROTECT CEILING SYSTEM AND MODIFY CEILING SYSTEM AS REQUIRED FOR NEW CONSTRUCTION.
16	MODIFY EXISTING GYPSUM BOARD BULKHEAD AS INDICATED IN NEW CONSTRUCTION DRAWINGS.

General Demolition Notes

A. Contractor shall field-verify all existing conditions, dimensions, and arrangements.

B. Contractor is responsible for protection of all existing surfaces, materials, and components to remain or be relocated. Damage to these resulting from performance of Work shall be repaired by Contractor to satisfaction of Owner and Architect at no additional expense to Owner.

C. Contractor shall provide temporary dust protection as required to prevent construction debris and dust from migrating out of Project Area. Owner/Architect shall confirm all dust prevention measures/locations and shall determine changes to these measures.

D. All existing equipment and fixtures shall remain property of Owner. All reusable items salvaged during demolition operations shall be retained for Owner's inspection. Only items so inspected and rejected by Owner shall be disposed. All other such items shall be turned over to Owner for disposition.

E. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to receive new construction shall be patched and repaired as required to cleanly receive new work.

F. All existing surfaces located adjacent to, or exposed by demolition work and scheduled to remain exposed after completion of new const. shall be repaired and patched as required to receive new finishes.

G. Owner will be responsible for removal/rearrangement of all existing loose furnishings during construction, unless noted otherwise.

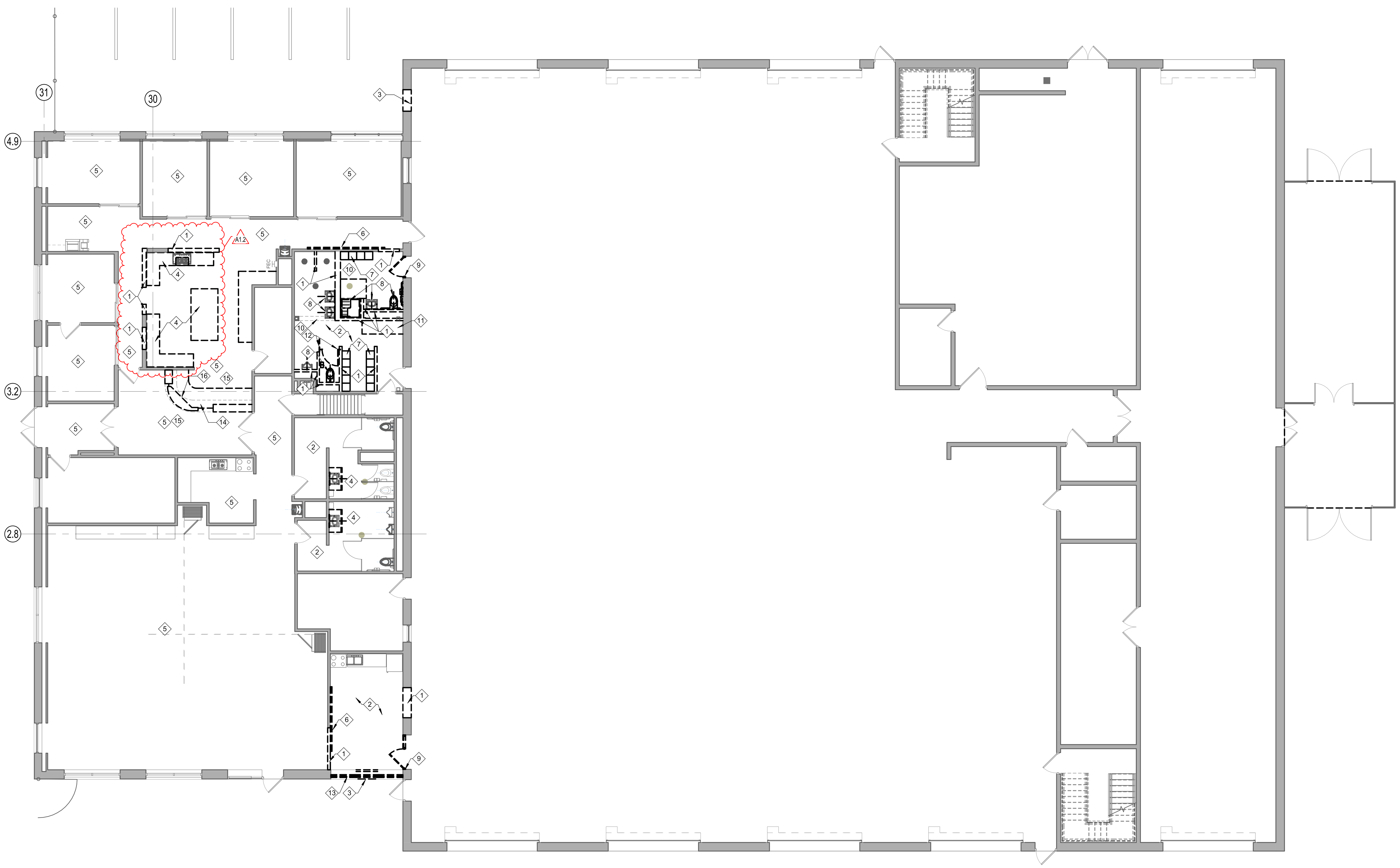
H. Refer to Mech./Elec. Drawings for additional patching and preparation work related to M.E.P. demolition items.

I. Existing sleeves, holes, and other penetrations or new damage of existing building structure above grade exposed by demolition and removal of piping, appurtenances, equipment shall be patched and repaired as part of the Work. Maintain fire ratings of all and adjacent construction affected.

J. Cap all piping to remain or abandoned in accordance with requirements of authority having jurisdiction and in accordance with all local and state plumbing and health codes. Utilize only pre-manufactured and approved fittings to cap existing piping.

K. Each Contractor is responsible for all demolition work required or noted for installation of new Work. Demolition may include associated distribution systems, appurtenances, equipment supporting controls, and miscellaneous supports, unless noted otherwise.

L. Coordinate all demolition with Project sequencing as directed by General Contractor or Construction Manager.



1A FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
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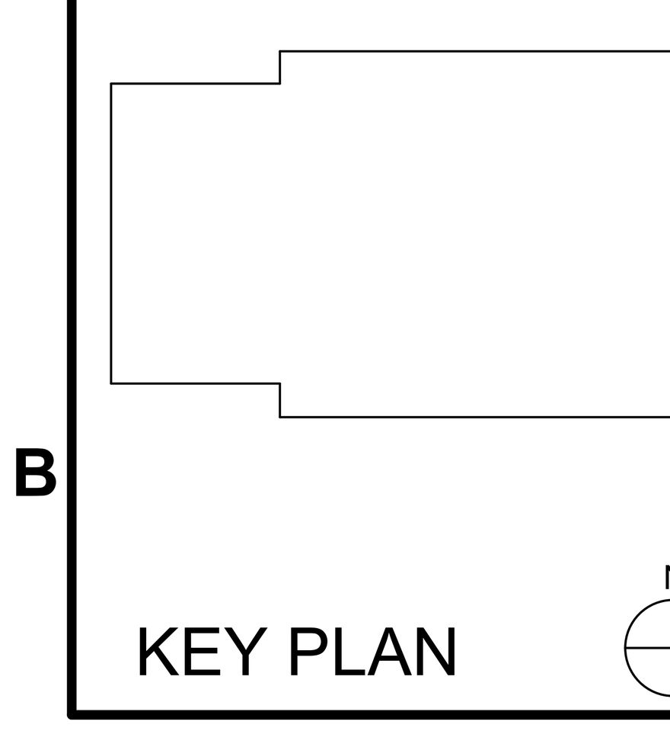
Project No. 2019-067.CBS
Project Date 12.06.2021
Bid Set 02
Produced SLS HEL

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1815 E. 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE - Transportation Building

FIRST FLOOR DEMOLITION PLAN

1-AD101

REFLECTED CEILING PLAN LEGEND

APC-1	2' X 2' Acoustical Panel Ceiling (09 51 13)	Light Fixture (Reference E-Series Dwgs)	
APC-2	2' X 2' Washable Acoustical Panel Ceiling (09 51 13)	Return Air (Reference M-Series Dwgs)	
APC-3	2' X 2' Humidity Resistant Acoustical Panel Ceiling (09 51 13)	Supply Air (Reference M-Series Dwgs)	
GWB	5/8" GWB on Grid Suspension System (09 22 16)	Exit Light (Reference E-Series Dwgs)	
DEFS	5/8" GWB on Grid Suspension System with Direct-applied Exterior Finishing System (09 22 16)	Recessed Light Fixture Suspended Fixture in Areas with Exposed Ceilings (Reference E-Series Dwgs)	
Walls to Deck		SOUND SYSTEM SPEAKER (REFERENCE E-SERIES/T-SERIES DWGS)	S

General Refl. Ceiling Plan Notes

A. All ceilings are at 9'-0" AFF, unless noted otherwise.

B. All bulkheads are at 8'-10" AFF, unless noted otherwise.

C. All grids are centered in rooms, unless noted otherwise.

D. In open office and office areas remove exissting ceiling panels as required for new lay-in light fixtures and turn over to Owner.

E. All exposed ductwork, piping etc. shall be painted. Color selected by Architect.

F. Locate sprinkler heads in center of ceiling panel - where applicable.

REFLECTED CEILING PLAN NOTES

#	NOTE
1	MATCH EXISTING CEILING HEIGHT VIF.
2	EXISTING BULKHEAD TO REMAIN
3	MODIFY EXISTING GRID, PROVIDE NEW ACOUSTICAL PANELS AS REQUIRED FOR NEW CONSTRUCTION.
4	RECONFIGURE BULKHEAD CEILING , PATCH AND REPAIR EXISTING TO ALIGN.

FLOOR PLAN NOTES

#	Note
1	RELOCATED EXISTING LOCKERS
3	EXISTING KITCHENETTE CASEWORK AND APPLIANCES TO REMAIN. PROTECT DURING CONSTRUCTION.
4	INFILL TO MATCH ADJACENT WALL CONSTRUCTION, V.I.F.

General Plan Notes

A. All dimensions shown are to face of stud or masonry, unless noted otherwise. Dimensions designated as "CLR or "clear" indicate a clear dimension from face of finish to face of finish. Dimensions of exterior walls are to outside edge of foundation.

B. Dimensions for all openings for Mechanical, Plumbing, Fire Protection and Electrical shall be fire stopped at each floor penetration.

C. Provide bracing and blocking as required in walls supporting casework, tackboards, markerboards, and restroom accessories.

D. All door frames are located 4" from adjacent wall, unless noted otherwise.

E. All exposed outside corners of CMU shall be bullnosed.

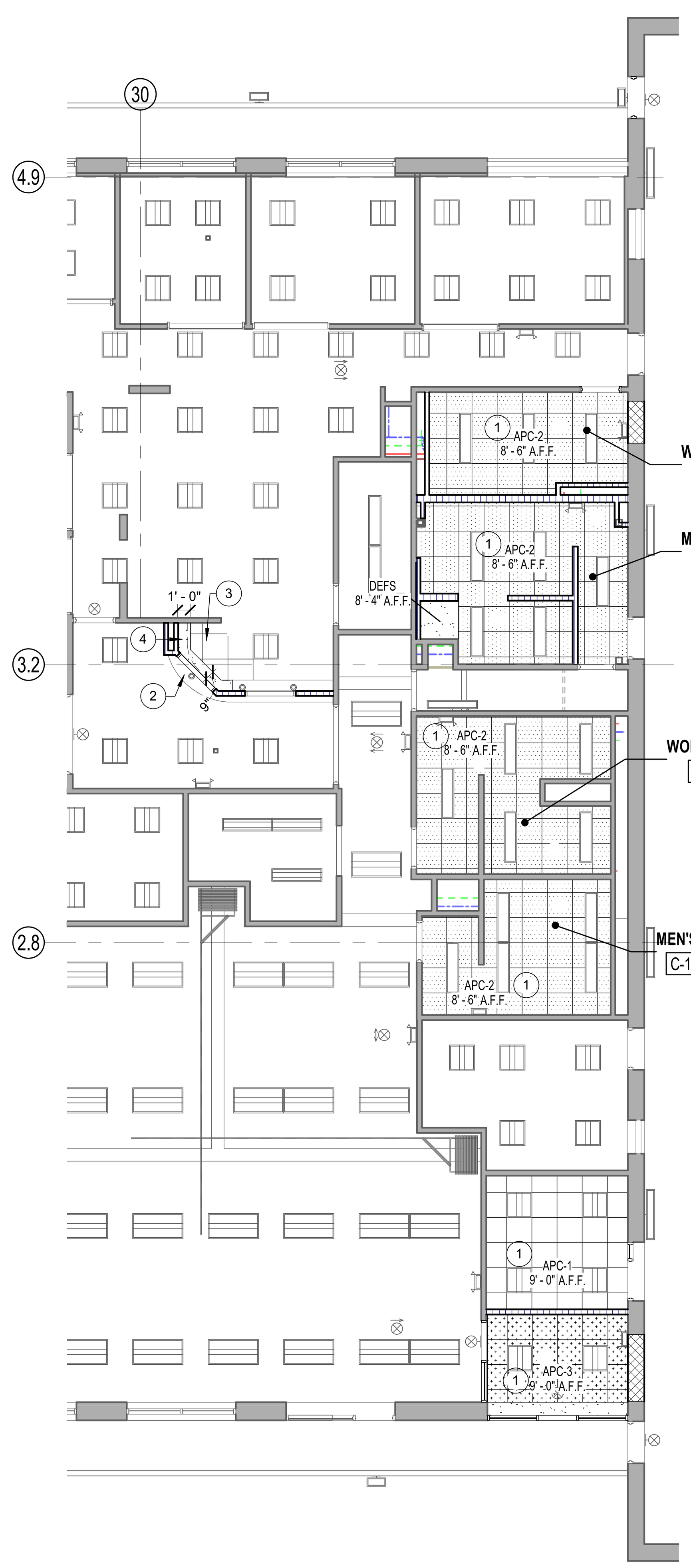
F. Seal all joints between dissimilar materials.

G. All gypsum wallboard is 5/8" Type "X", unless noted otherwise.

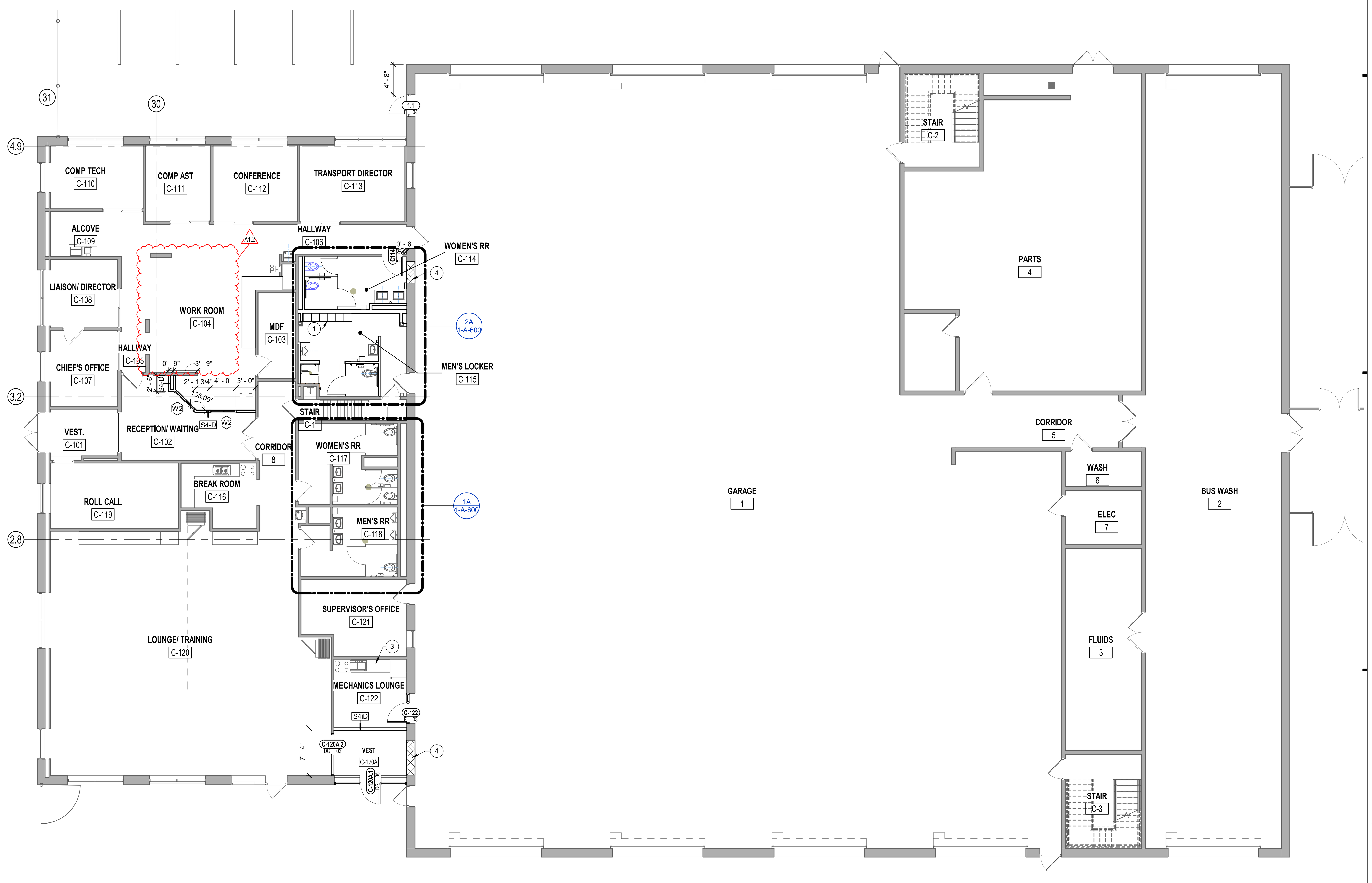
H. Where new floors meet existing floors, a smooth, straight, and flush transition shall be constructed. Verify in field existing floor elevations and conditions where a new floor shall be constructed adjacent. Trim and patch existing floor as required to achieve desired transition.

I. All interior walls are Type "S4iD", unless noted otherwise.

J. Hatching within walls shown in plans and sections indicates new construction.



6A REFLECTED CEILING PLAN FIRST FLOOR
1/8" = 1'-0"



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WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE - Transportation Building

FIRST FLOOR PLAN

1-AF101

DOOR & FRAME SCHEDULE														
	DOOR PANEL							FRAME						
					SIZE									
MARK	TYPE	QTY	MATL	GLAZ	H	W	TH	MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES	MARK
2.101	OH	1	ST	--	14' - 0"	14' - 0"	0' - 3"	OH	--	--	--	08	3	2.101
2.100.1	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--	--	04		2.100.1
2.102	OH	1	ST	--	14' - 0"	14' - 0"	0' - 3"	OH	--	--	--	08	3	2.102
2.103	OH	1	ST	--	14' - 0"	14' - 0"	0' - 3"	OH	--	--	--	08	3	2.103
2.102.2	F	1	HM	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--	--	04		2.102.2
2.104	OH	1	ST	--	14' - 0"	14' - 0"	0' - 3"	OH	--	--	--	08	3	2.104
2.100	OH	1	ST	--	14' - 0"	14' - 0"	0' - 3"	OH	--	--	--	08	3	2.100
2.105	OH	1	ST	--	14' - 0"	14' - 0"	0' - 3"	OH	--	--	--	08	3	2.105
2.103.2	OH	1	ST	--	14' - 0"	14' - 0"	0' - 3"	OH	--	--	--	08	3	2.103.2
2.102.3	F	1	WD	--	7' - 0"	3' - 0"	0' - 1 3/4"	F1	HM	--		09		2.102.3

GENERAL NOTES

A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior borrowed lite or sidelite openings). Should any particular door, frame, or interior borrowed lite or sidelite shown on the Drawings be inadvertently omitted from this Schedule, supply same as required for similar openings.

B. The "QTY" column designates the number of leaves in the opening. The "Door Width" column designates the total width of all leaves. In multiple leaf conditions, the leaves shall equally divide the "Door Width" unless noted otherwise; however, the active leaf shall not be less than 3'-0" wide.

C. Door Type "X" denotes a frame with no door such as a borrowed lite, reference Frame Elevations.

D. An asterisk (*) in a dimension denotes a width that varies, reference plans, elevations, details and schedules.

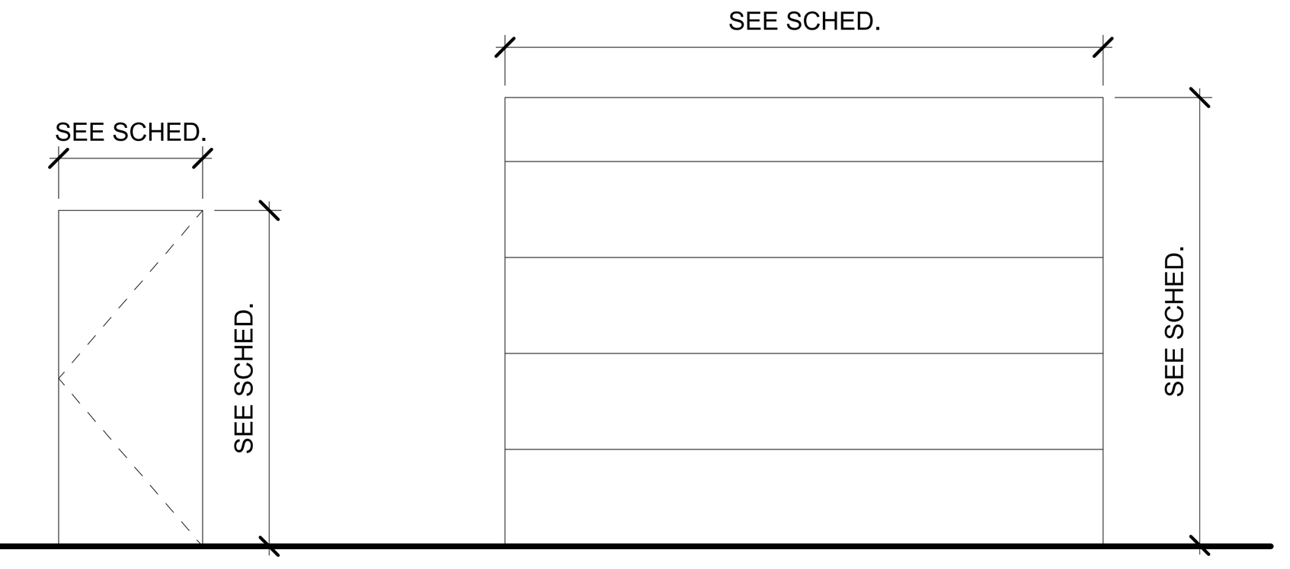
E. Verify locksets with the Owner during submittals.

ABBREVIATIONS

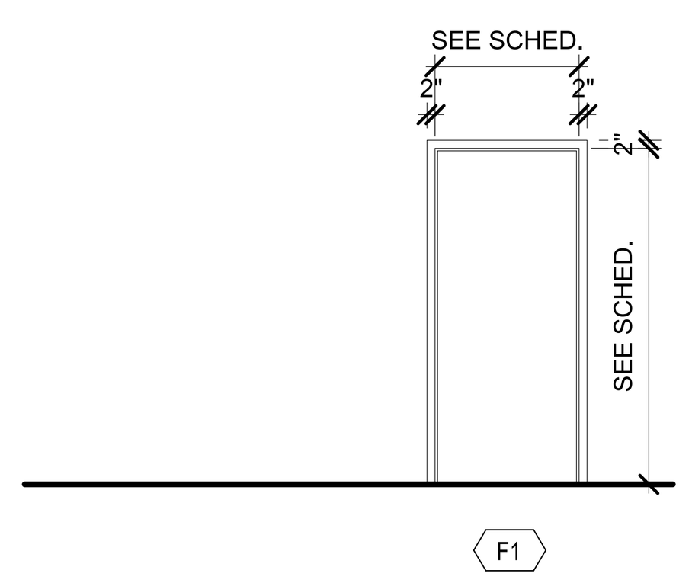
- AL Aluminum
- HM Hollow Metal
- ST Steel
- WD Wood
- TG Tempered Glazing
- IG Insulated Glazing
- LG Laminated Glazing
- FG Frosted Glazing
- SP Spandrel Panel

DOOR & FRAME SCHEDULE NOTES
See Door Schedule

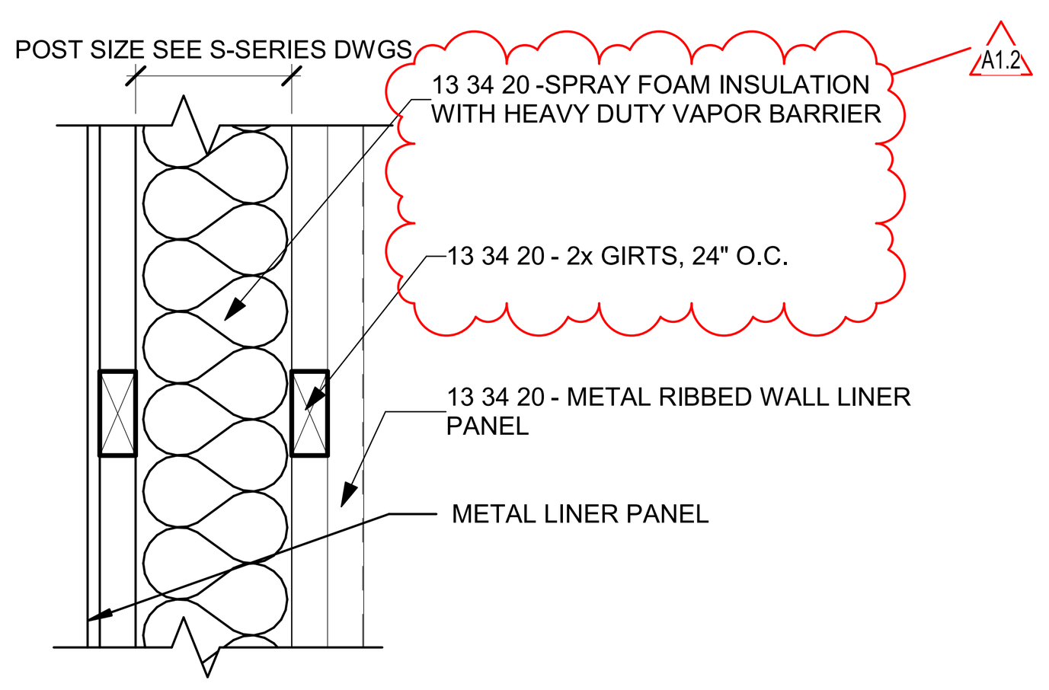
1. Existing door and frame to remain. New hardware only. Field verify all existing door and frame information as required for installation of new hardware.
2. New door/frame in existing masonry wall. Tooth in new masonry into existing as required.
3. Insulated Overhead Sectional Doors.



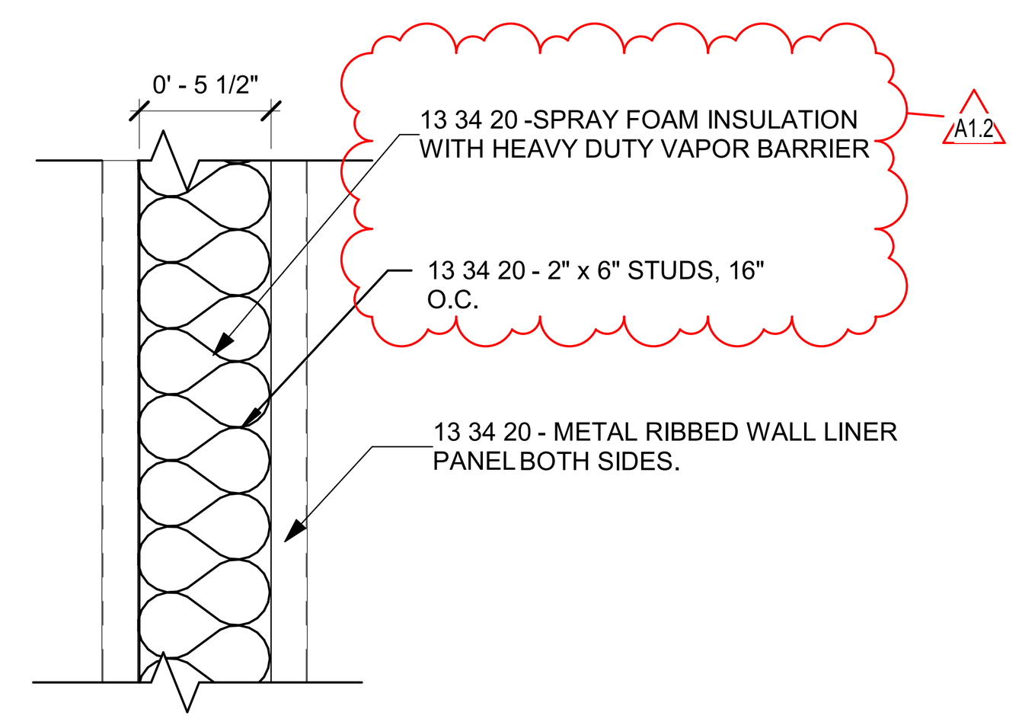
5.4.602 - DOOR PANEL ELEVATIONS
1/4" = 1'-0"



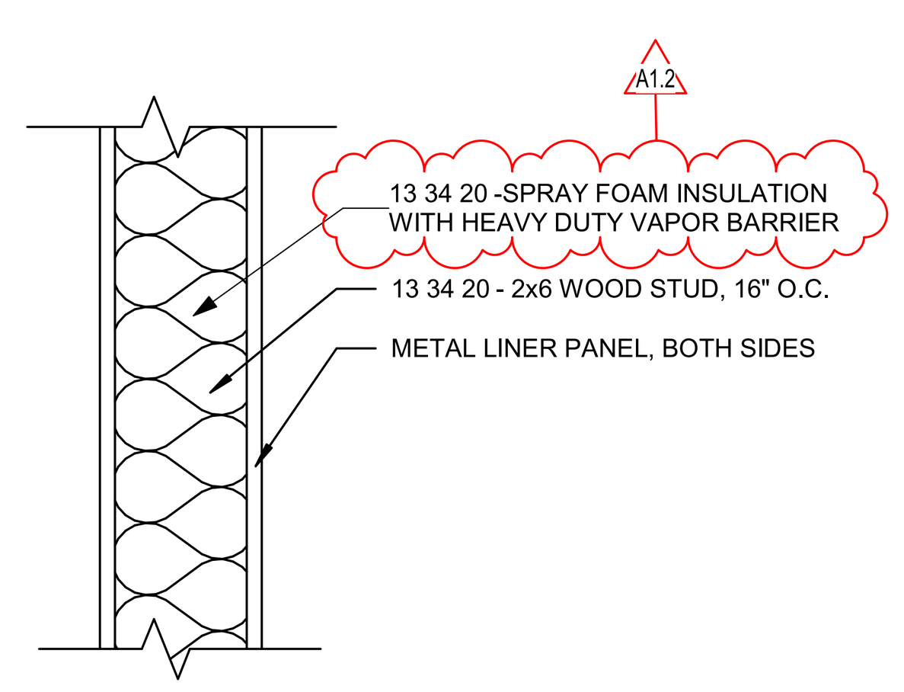
5.4.603 - FRAME ELEVATIONS
1/4" = 1'-0"



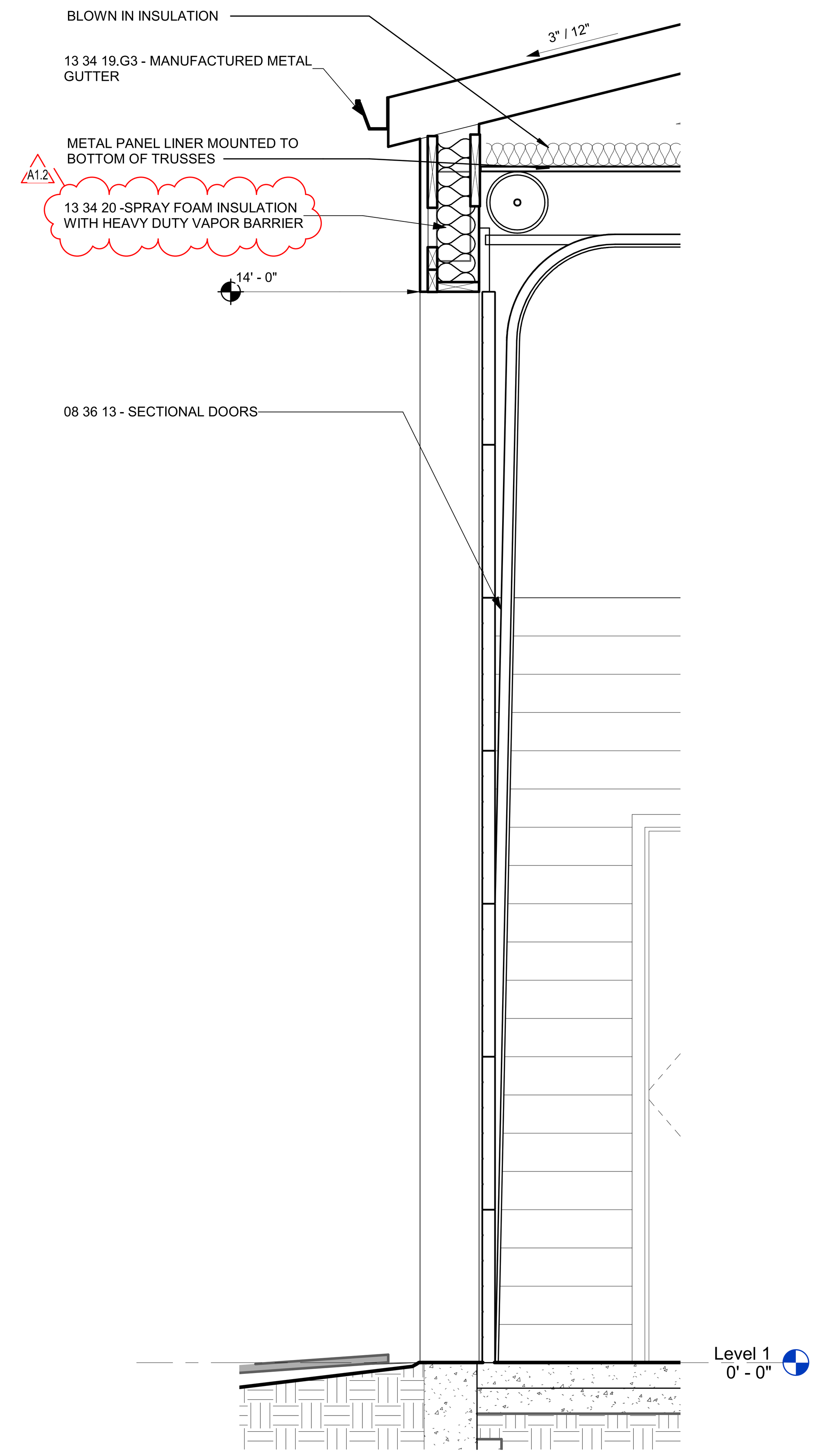
6B EZ8M WALL TYPE
1 1/2" = 1'-0"



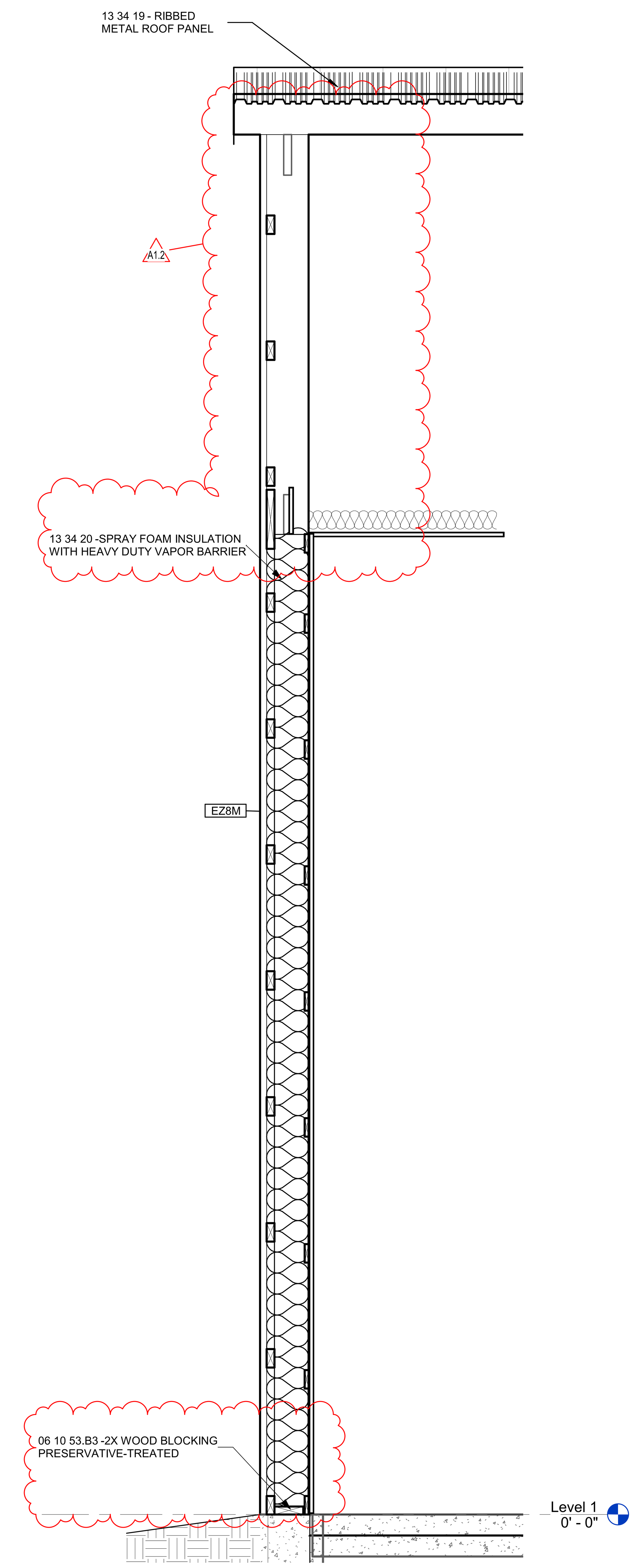
5B E6M2 WALL TYPE
1 1/2" = 1'-0"



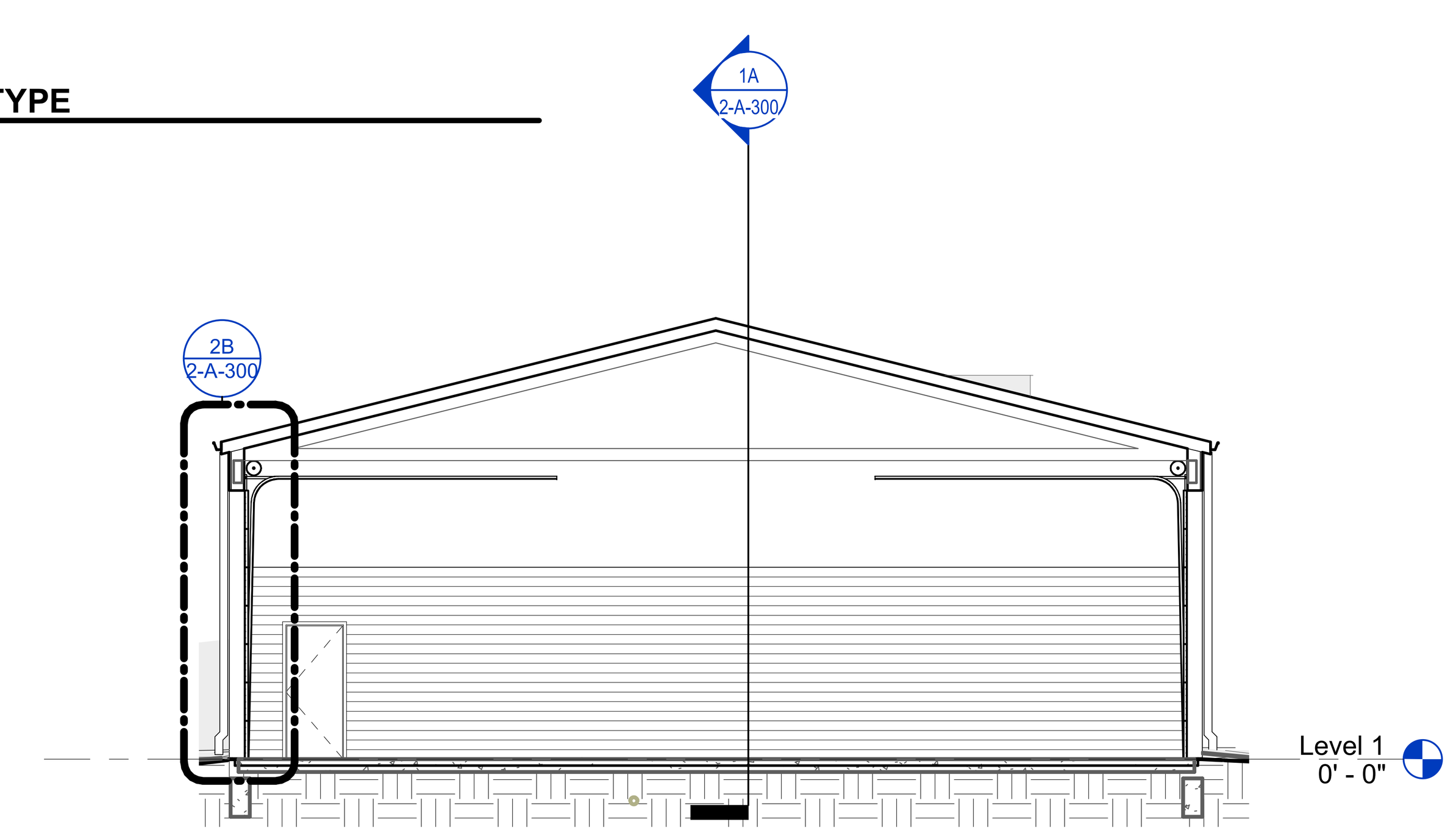
6A W6iD WALL TYPE
1 1/2" = 1'-0"



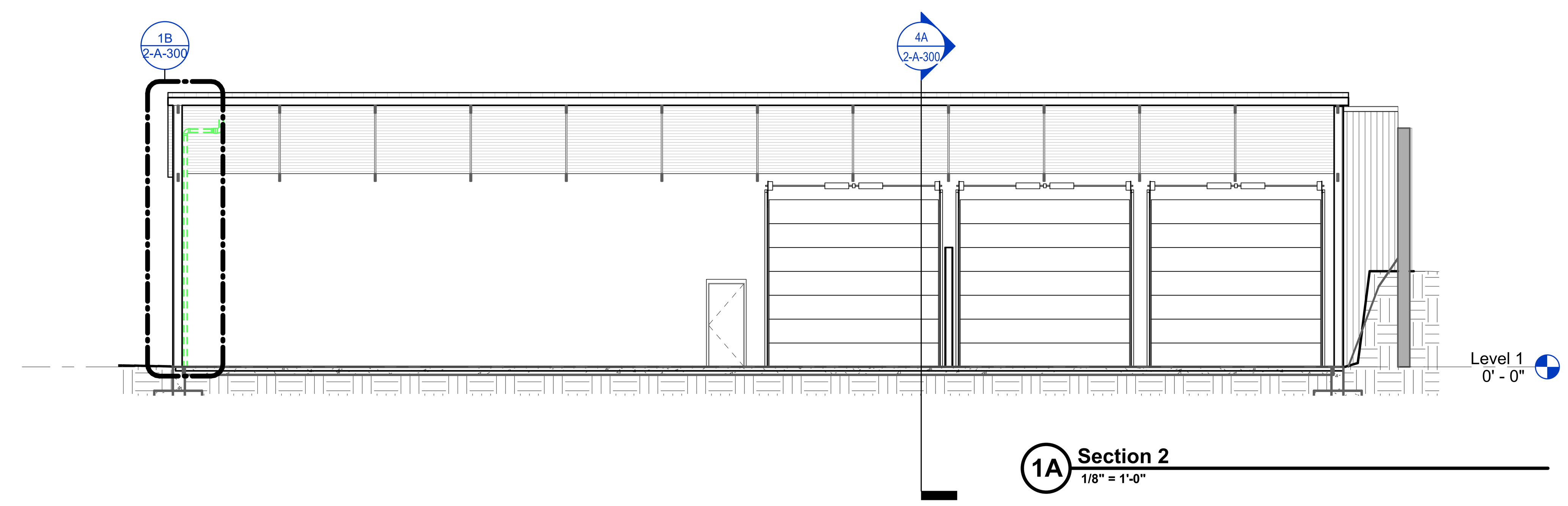
2B WALL SECTION
3/4" = 1'-0"



1B WALL SECTION
3/4" = 1'-0"



4A Section 3
1/8" = 1'-0"



1A Section 2
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.CBS
Project Date 12.06.2021
Bid Set 02
Produced SLS HEL

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	Addendum 1.2	01.13.2022

1815 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE
Transporation Storage Building

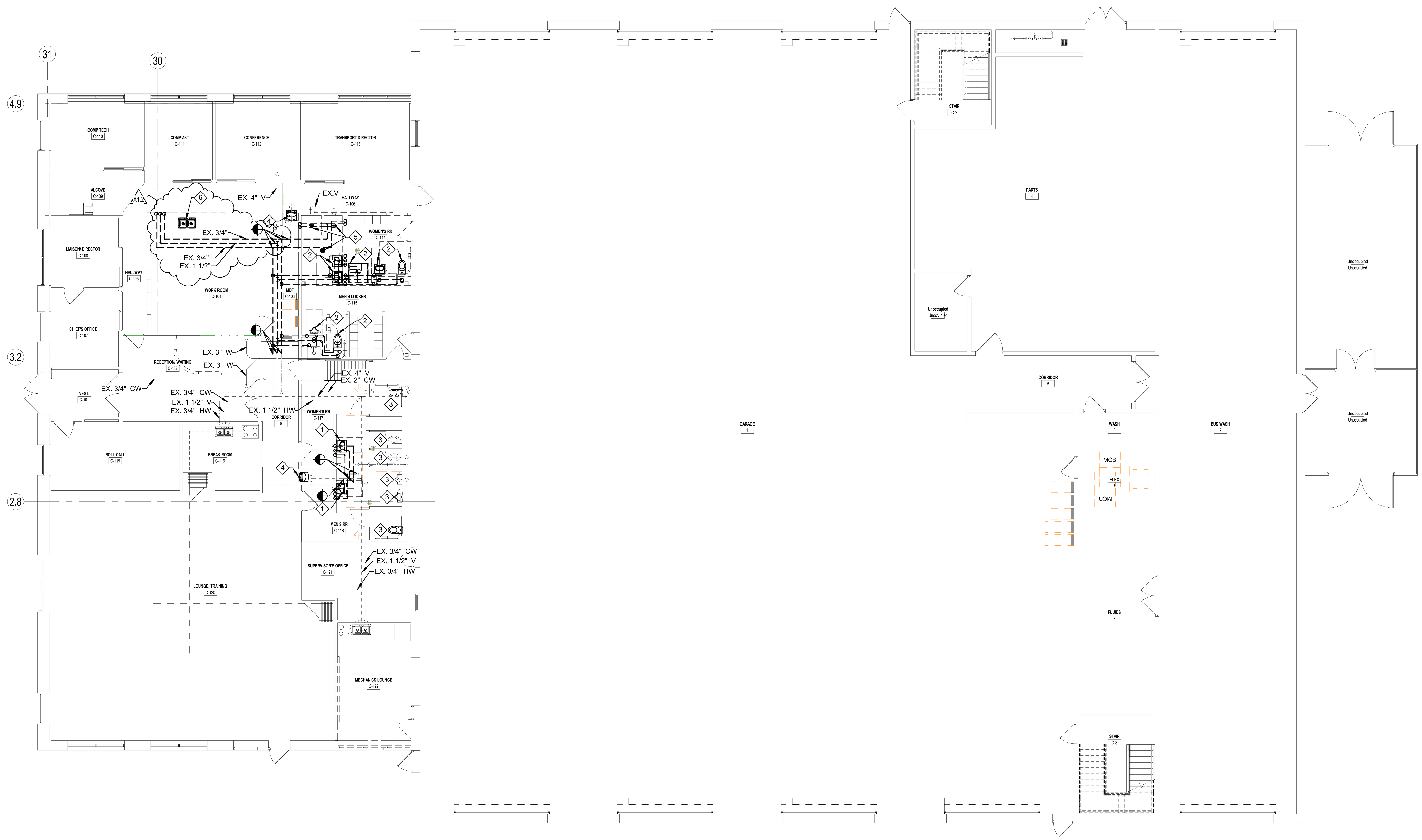
BUILDING SECTIONS

2-A-300

DEMOLITION PLAN NOTES

#	NOTE
1	REMOVE EXISTING PLUMBING FIXTURE COMPLETE.
2	REMOVE EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING COMPLETE.
3	REMOVE EXISTING FLUSH VALVE COMPLETE AND PREPARE FIXTURE FOR NEW FLUSH VALVE.
4	REMOVE EXISTING PLUMBING FIXTURE COMPLETE. PREPARE EXISTING WATER, WASTE, AND VENT PIPING FOR NEW CONNECTIONS.
5	REMOVE EXISTING FLOOR DRAIN COMPLETE. CAP WASTE PIPING BELOW FLOOR AND PATCH FLOOR TO MATCH EXISTING.
6	REMOVE EXISTING PLUMBING FIXTURE COMPLETE. REMOVE EXISTING WATER AND VENT PIPING BACK TO MAIN AND CAP. REMOVE EXISTING WASTE PIPING TO BELOW FLOOR AND CAP.

A1.2



2A DEMOLITION FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.CBS
Project Date 12.06.2021
Bid Set 02
Produced JH / IOP

SARAH KATHLEEN HEMPSTEAD
REGISTERED ARCHITECT
NO. AR10400134
STATE OF INDIANA

#	Revision	Date
A1.2	Addendum #1.2	01.13.2022

1815 E. 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE
Transportation Building

DEMOLITION FIRST FLOOR PLUMBING PLAN

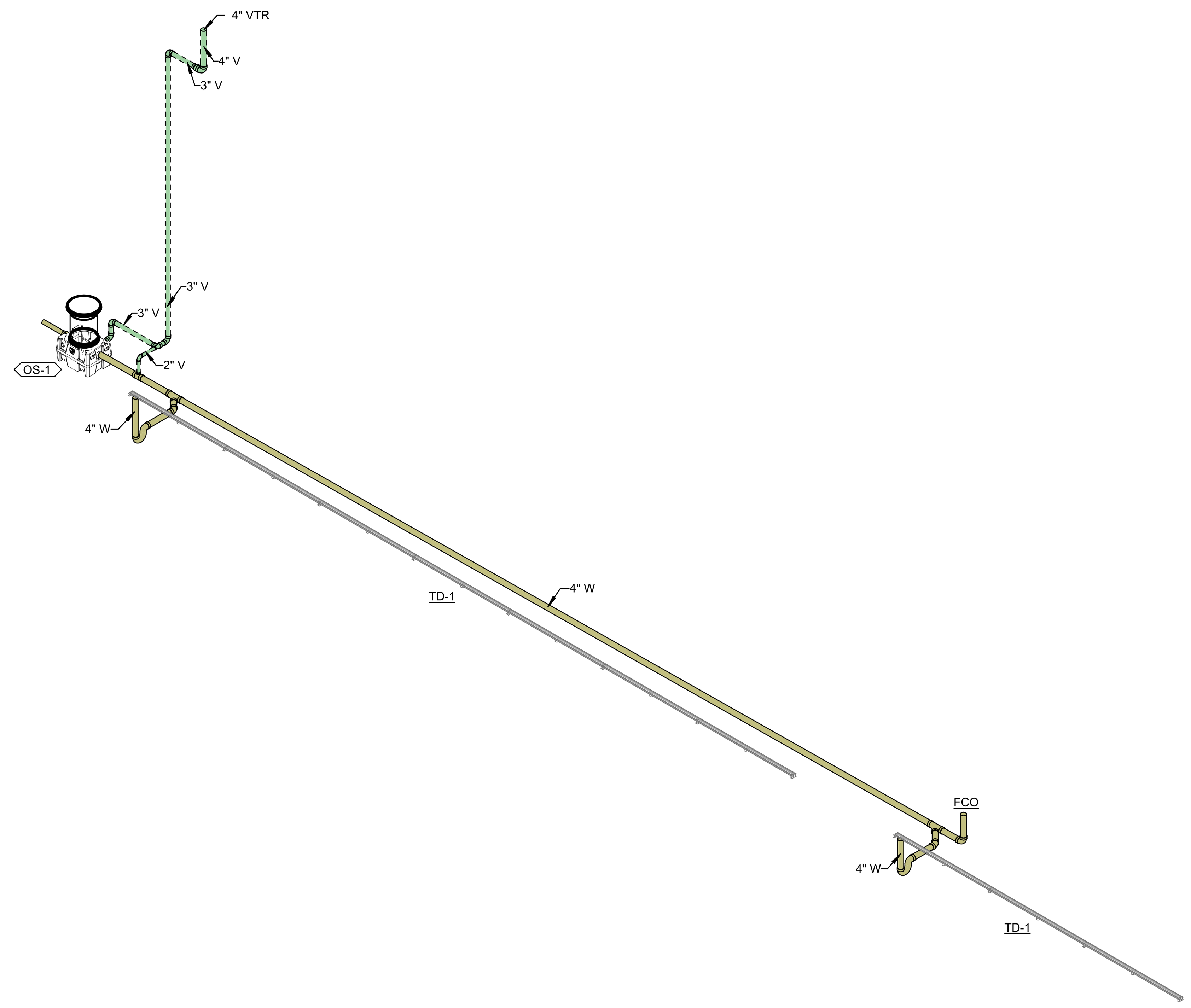
1-PD101

PLUMBING FIXTURE ROUGH-IN LEGEND				
	FIXTURE CONNECTION			
MARK	CW	HW	W	V
TD-1			4"	

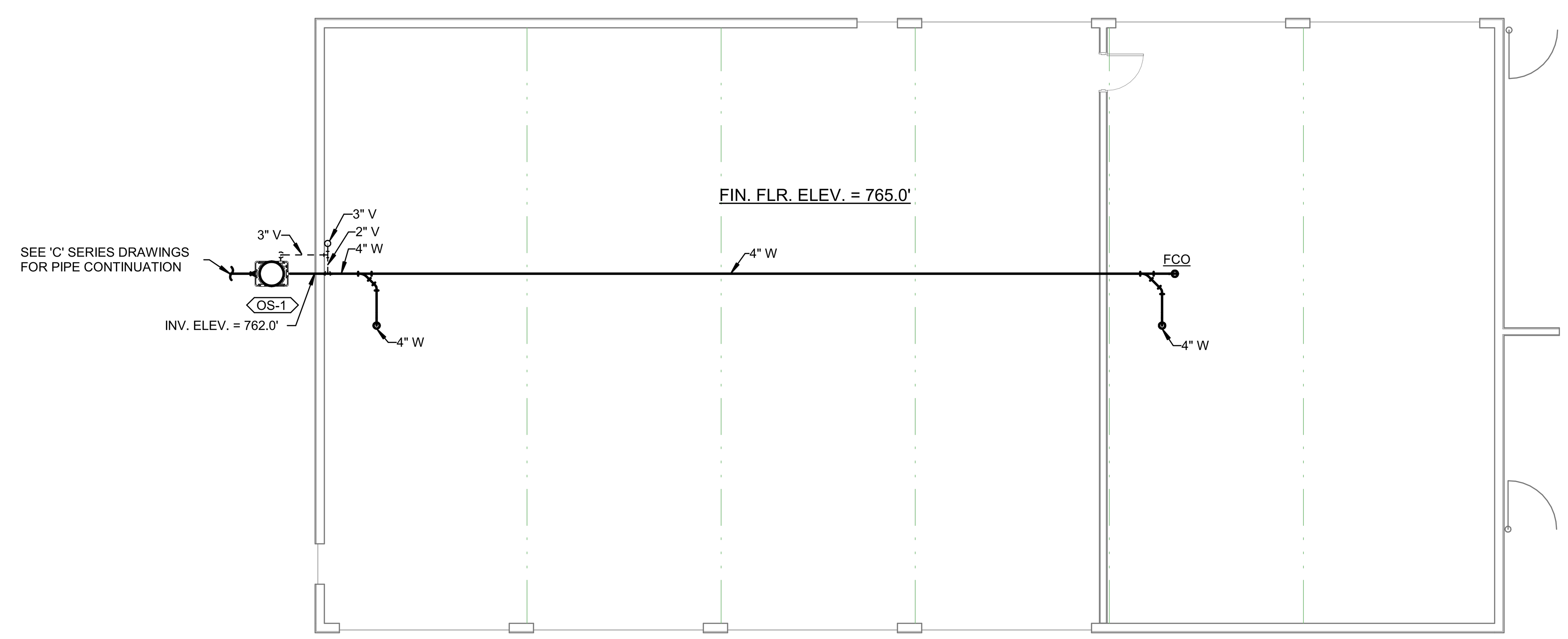
SANITARY WASTE PIPING SPECIALTIES SCHEDULE (221319)					
IDENTITY DATA				W	
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONNECTION	NOTES
TD-1	DURATRENCH	#DTPF4-05B24DI-HDBP08ZSA-GLZN6-NSR-4b-OS4	POLYESTER FIBER REINFORCED POLYMER CONCRETE TRENCH DRAIN w/ CAST DUCTILE IRON SLOTTED GRATE	4"	PROVIDE DOMED OUTLET STRAINER

A1

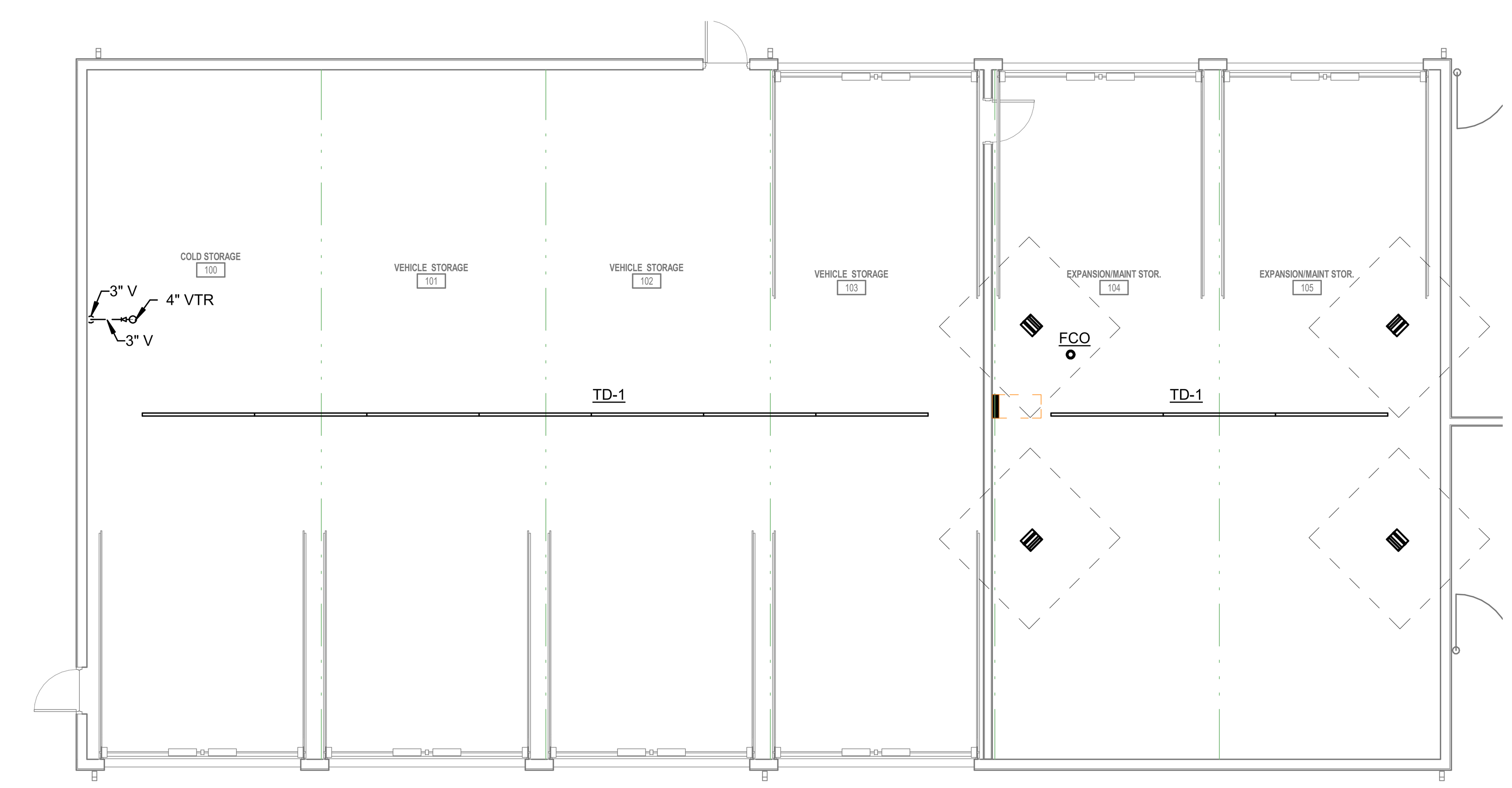
PLUMBING EQUIPMENT SCHEDULE				
IDENTITY DATA				
MARK	MANUFACTURER	MODEL	DESCRIPTION	CAPACITY
OS-1	STRIEM	OS-35-4P-LR24	OIL/SAND SEPARATOR	LIQUID: 38 GAL.; OIL: 28 GAL.; SAND: 6 GAL



5C SANITARY WASTE AND VENT ISOMETRIC
NOT TO SCALE



2C FOUNDATION PLUMBING PLAN
1/8" = 1'-0"



2A FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
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www.schmidt-arch.com

Project No. 2019-067.CBS
Project Date 12.06.2021
Bid Set 02
Produced JH / IOP

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	Addemdum #001	12.16.2021

1815 East 86th Street
Indianapolis, IN 46240

KEY PLAN

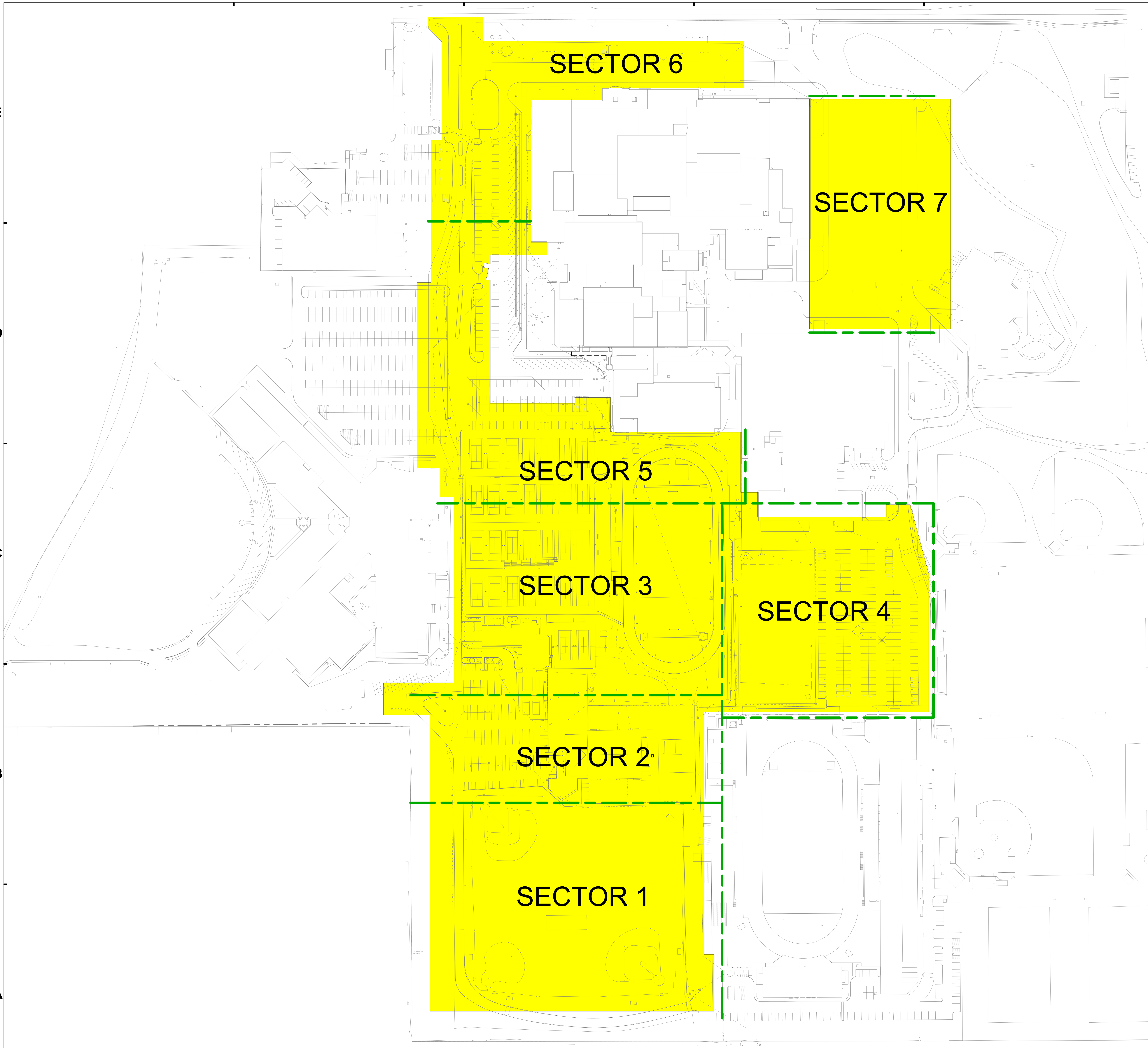
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE

PLUMBING PLANS AND SCHEDULES

2-PP101



GENERAL SITE DEMOLITION NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
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D	THOROUGHLY EXAMINE THE WORK OF OTHER CONTRACTORS AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT.
E	THE OWNER HOLDS RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ELECTRICAL EQUIPMENT.
F	ALL ELECTRICAL ITEMS SHOWN WITH LIGHT LINEWORK ARE EXISTING TO REMAIN.
G	REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BOLD/DASHED LINEWORK COMPLETE.
H	COORDINATE AND DISCONNECT ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING EQUIPMENT AS NOTED FOR REMOVAL BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SERVING THE EQUIPMENT.
I	PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS.
J	PROVIDE A BLANK COVERPLATE FOR ALL EXISTING WALL OPENINGS WHERE ELECTRICAL EQUIPMENT HAS BEEN REMOVED AND NOT REPLACED. IN AREAS RECEIVING NEW WALL TREATMENTS, PATCH THE EXISTING OPENING.
K	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS AND REQUIREMENTS. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC. INCLUDE ALL UTILITY FEES REQUIRED IN BID.
L	COORDINATE WITH C-SERIES DRAWINGS FOR ALL OTHER UTILITIES.

SITE DEMOLITION PLAN NOTES

#	NOTES
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6	DISCONNECT EXISTING PIV. REMOVE WIRE AND CONDUIT COMPLETE.

1A SITE DEMOLITION PLAN - OVERALL
1" = 100'-0"

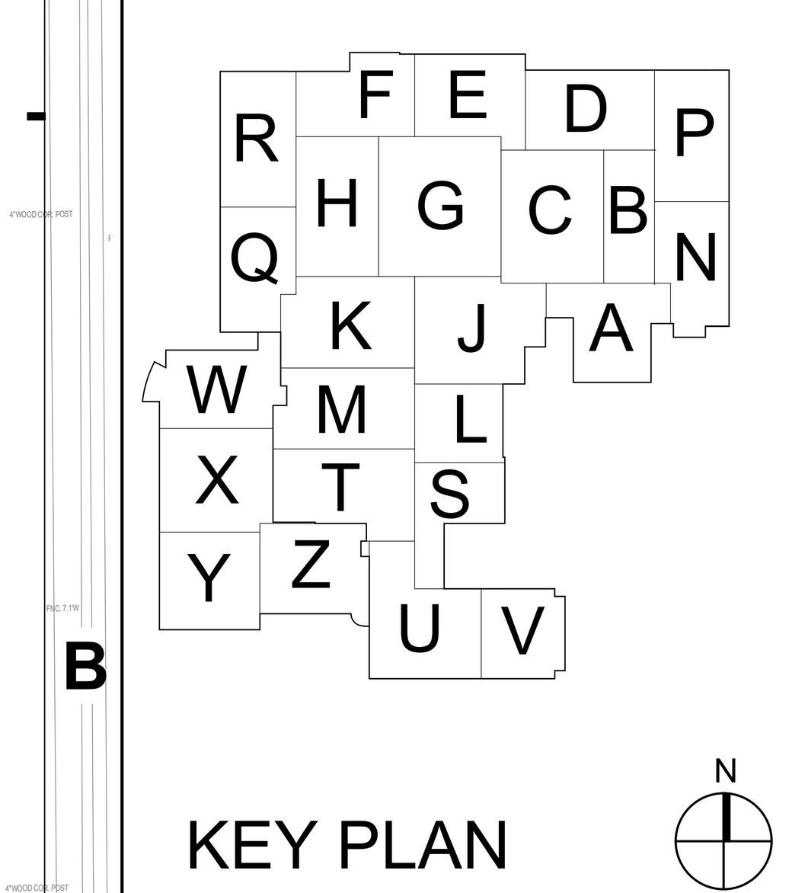
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE DEMOLITION PLAN - OVERALL

ESD100.2

GENERAL SITE DEMOLITION NOTES

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SITE DEMOLITION PLAN NOTES

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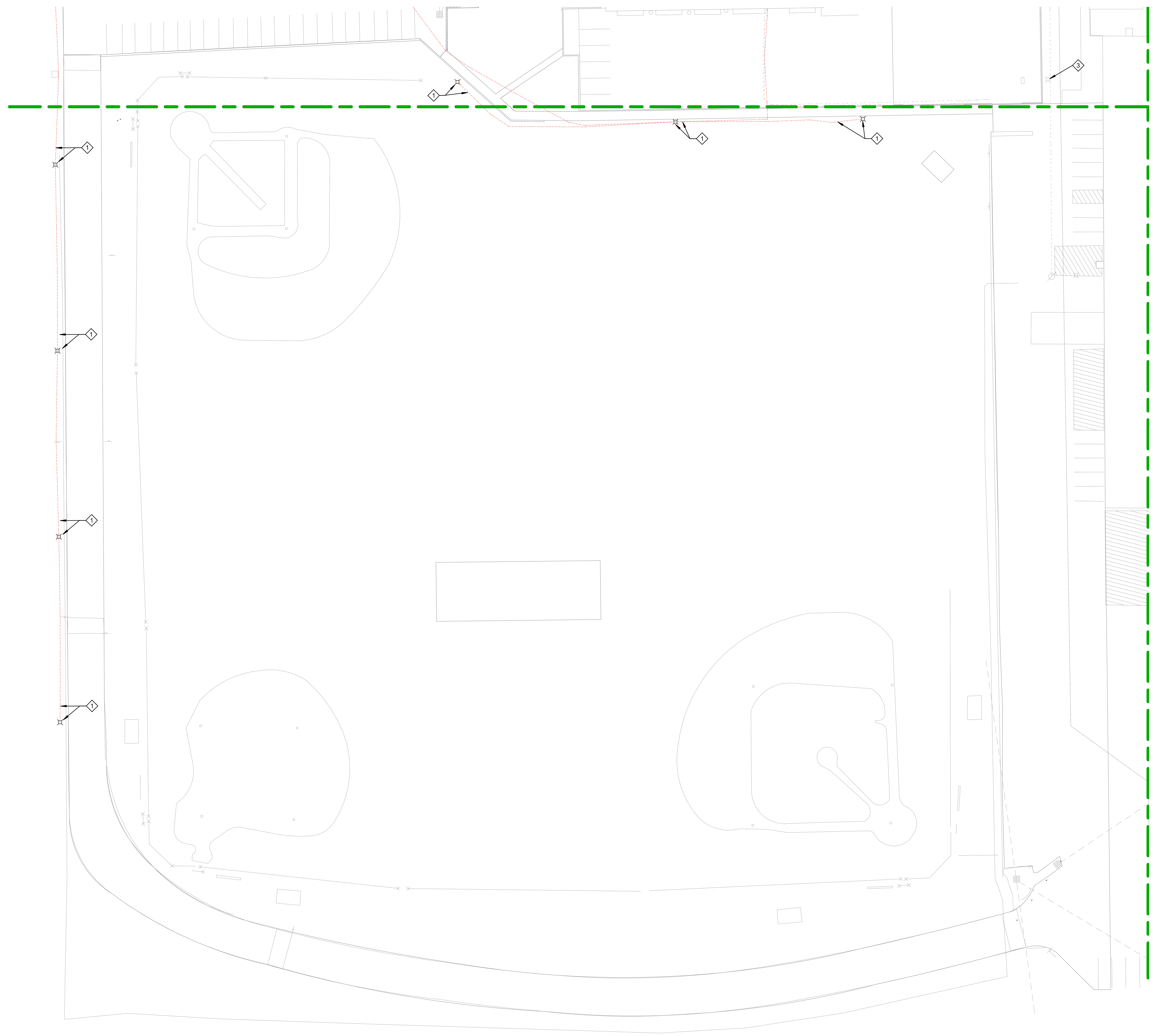

2A SITE DEMOLITION PLAN - SECTOR 1
1" = 30'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE DEMOLITION PLAN - SECTOR 1

ESD101.2

GENERAL SITE DEMOLITION NOTES

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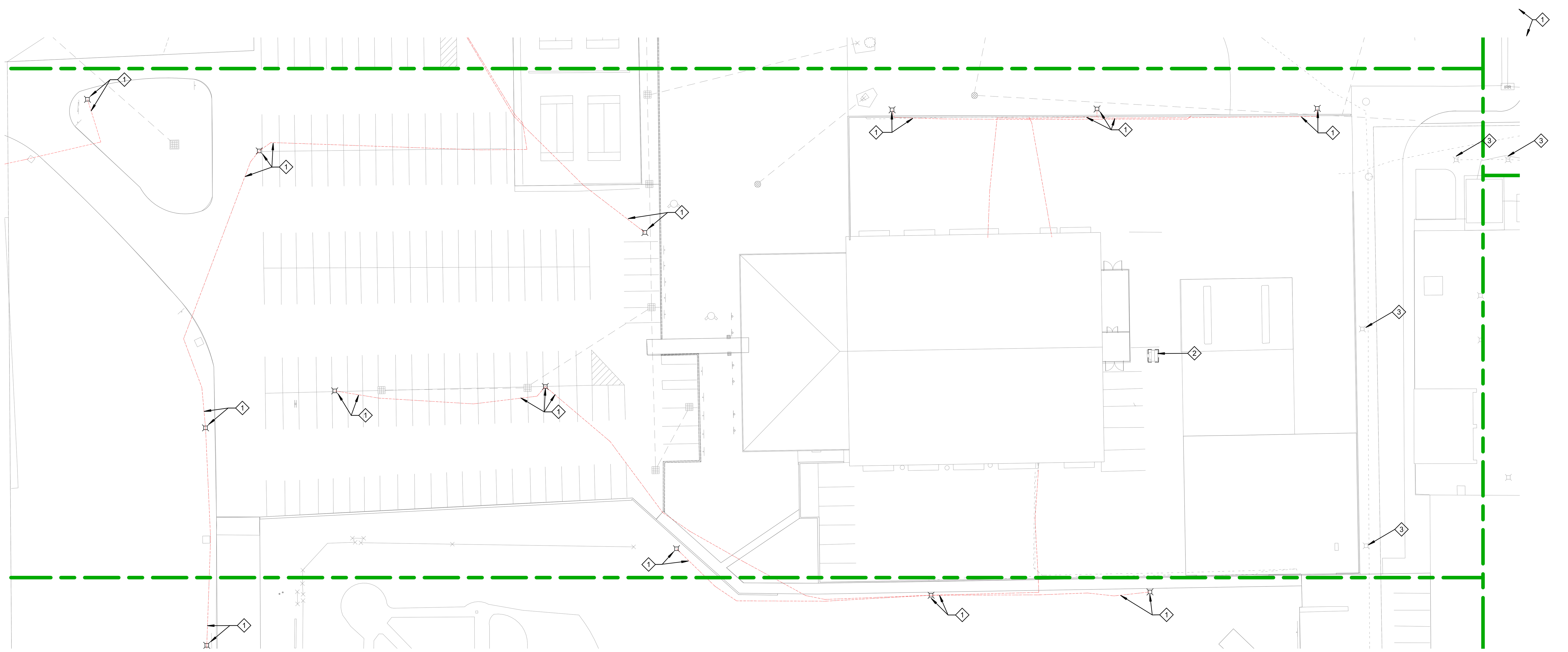

2A SITE DEMOLITION PLAN - SECTOR 2
1" = 30'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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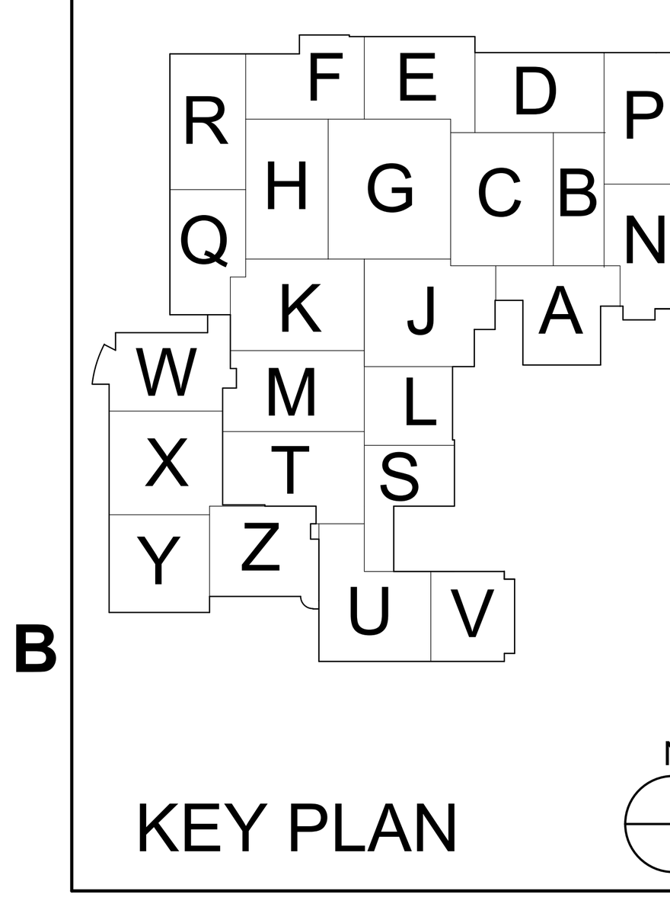

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE DEMOLITION PLAN - SECTOR 2

ESD102.2

GENERAL SITE DEMOLITION NOTES

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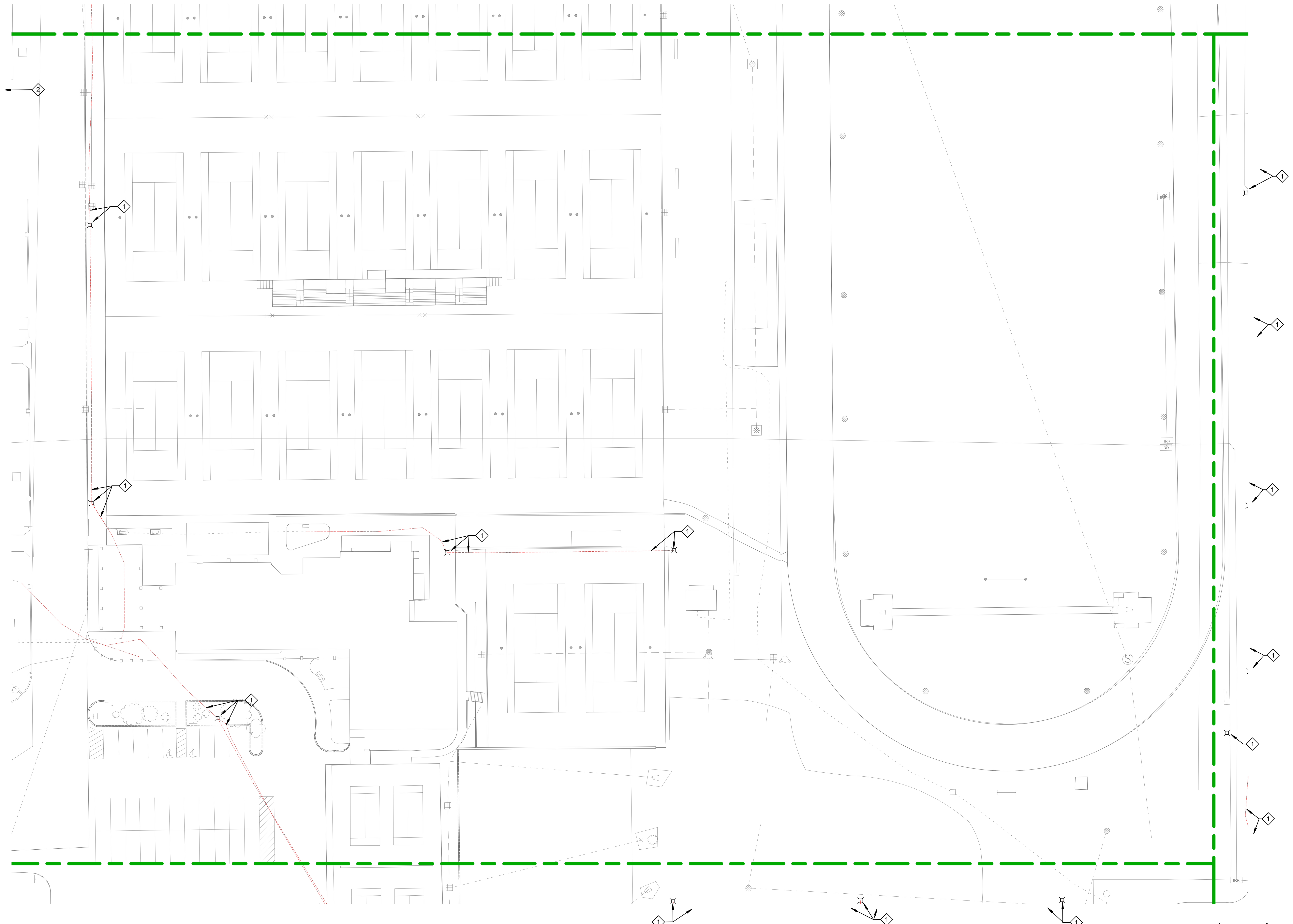


2A SITE DEMOLITION PLAN - SECTOR 3
1" = 30'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

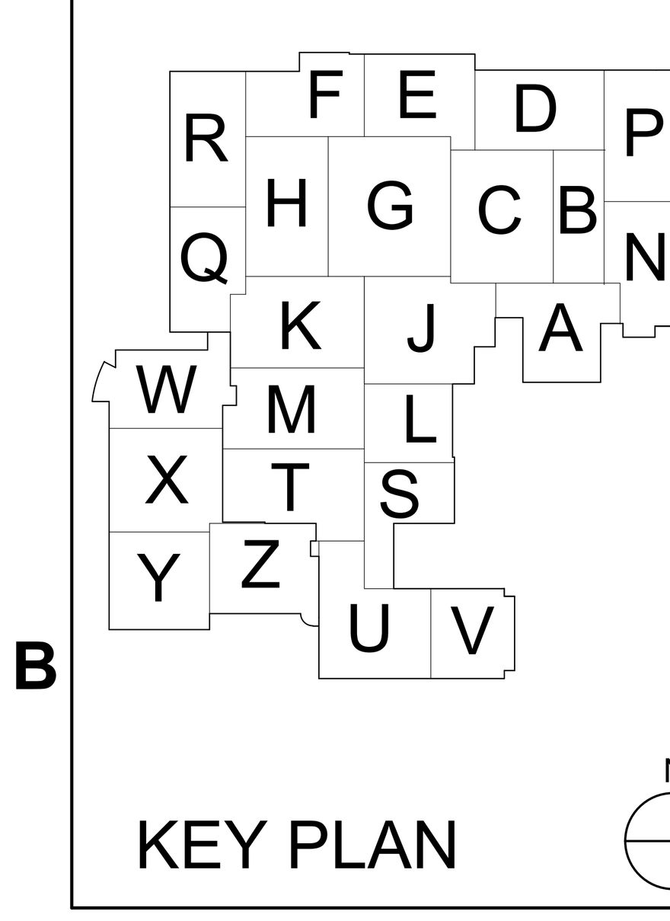
Project No.	2019-067.NCH
Project Date	12.06.2021
Bid Set	02
Produced	JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED No. AR10400134 STATE OF INDIANA ARCHITECT

Sarah K Hempstead

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE DEMOLITION PLAN - SECTOR 3

ESD103.2

GENERAL SITE DEMOLITION NOTES

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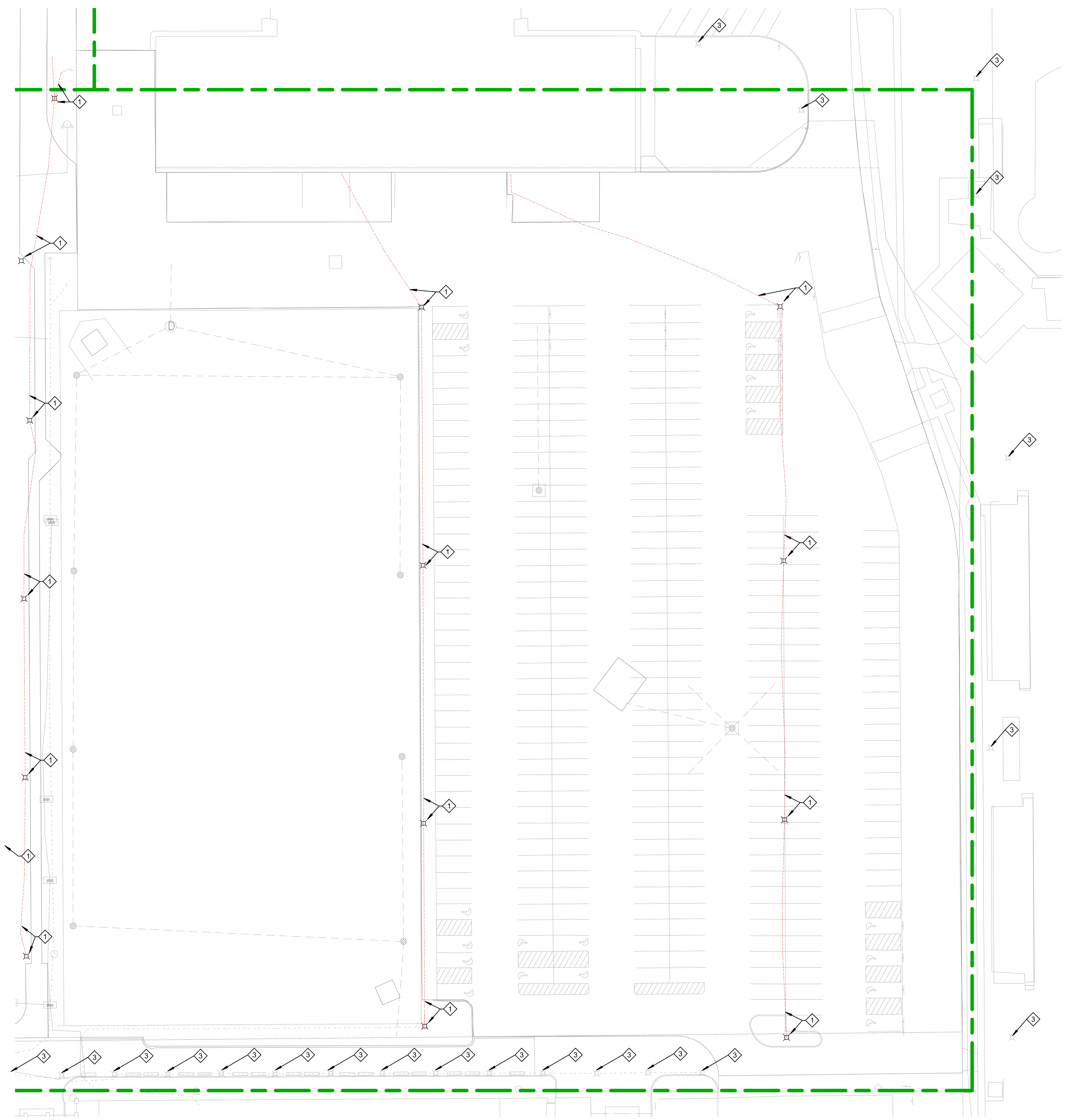
H	COORDINATE AND DISCONNECT ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING EQUIPMENT AS NOTED FOR REMOVAL BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SERVING THE EQUIPMENT.
I	PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS.
J	PROVIDE A BLANK COVERPLATE FOR ALL EXISTING WALL OPENINGS WHERE ELECTRICAL EQUIPMENT HAS BEEN REMOVED AND NOT REPLACED. IN AREAS RECEIVING NEW WALL TREATMENTS, PATCH THE EXISTING OPENING.
K	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS AND REQUIREMENTS. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC. INCLUDE ALL UTILITY FEES REQUIRED IN BID.
L	COORDINATE WITH C-SERIES DRAWINGS FOR ALL OTHER UTILITIES.

SITE DEMOLITION PLAN NOTES

#	NOTES
1	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, POLE, CONCRETE BASE, CONDUIT AND CONDUCTORS.
2	EXISTING PAD-MOUNT AES INDIANA TRANSFORMER TO REMAIN.
3	EXISTING LIGHT FIXTURE, POLE, CONCRETE BASE, ETC. TO REMAIN.
4	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, POLE, CONCRETE BASE, ETC. COMPLETE. POLE AND BASE WILL BE RELOCATED. EXISTING CIRCUIT WILL REMAIN AND BE EXTENDED TO NEW LOCATION.
5	EXISTING PAD-MOUNT AES INDIANA TRANSFORMER TO BE RELOCATED BY AES INDIANA. REROUTE SERVICE ENTRANCE CONDUCTORS FOR NATATORIUM TO NEW LOCATION. REFER TO SITE PLAN FOR NEW LOCATION.
6	DISCONNECT EXISTING PIV. REMOVE WIRE AND CONDUIT COMPLETE.



2A SITE DEMOLITION PLAN - SECTOR 4
1" = 30'-0"

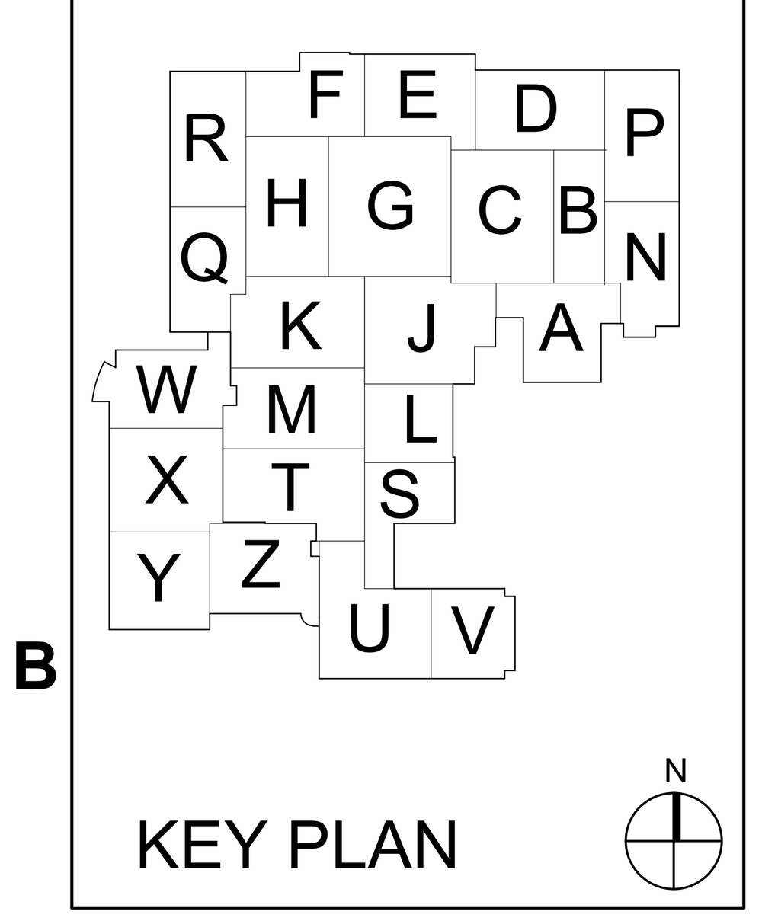
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



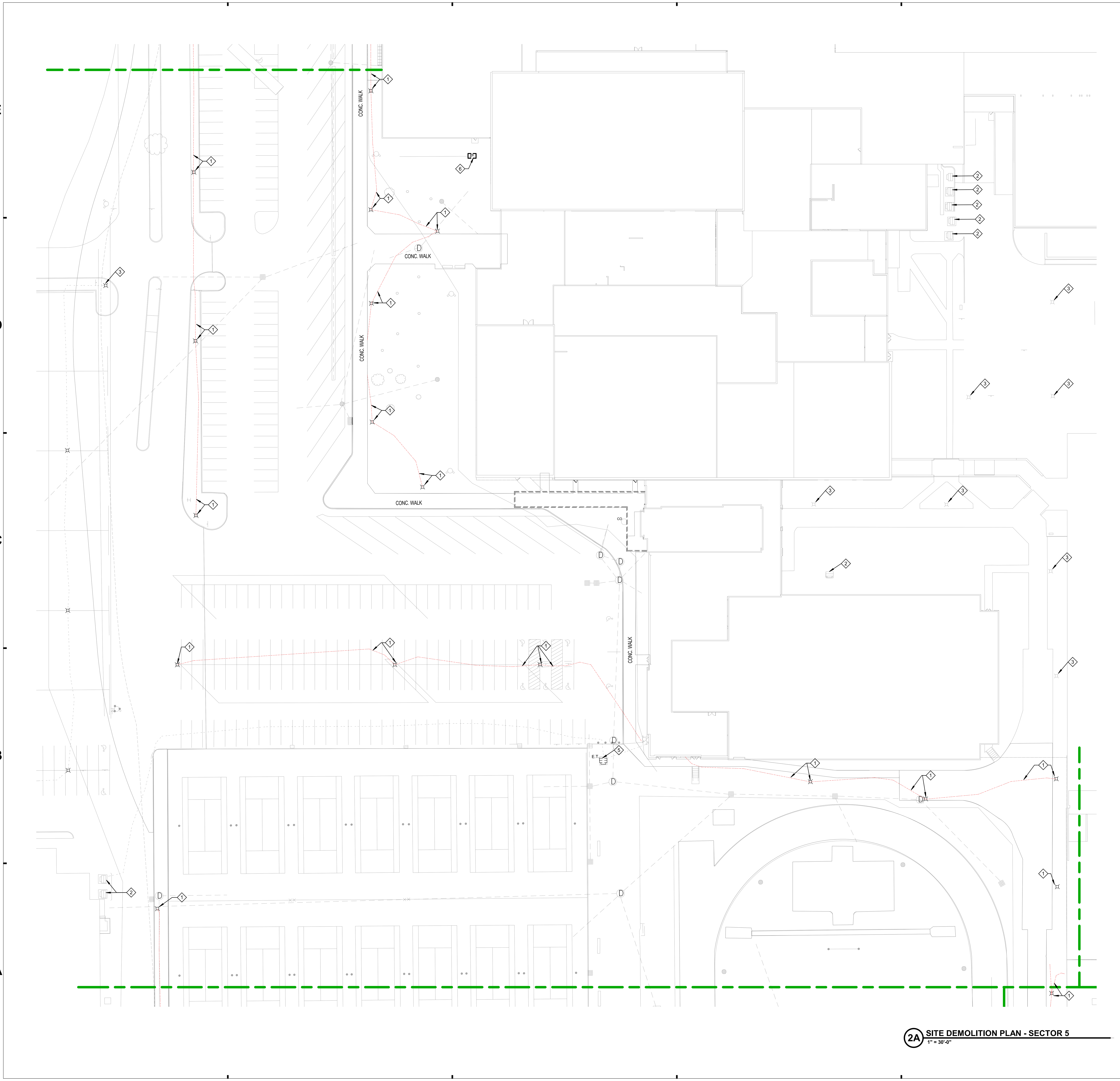
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE DEMOLITION PLAN - SECTOR 4

ESD104.2



GENERAL SITE DEMOLITION NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	THIS DRAWING REPRESENTS INFORMATION OBTAINED FROM ORIGINAL CONTRACT DRAWINGS AND FIELD SURVEY. VERIFY BY ON-SITE OBSERVATION THE EXTENT OF WORK PRIOR TO SUBMISSION OF BID.
C	CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND ARE MEANT TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
D	THOROUGHLY EXAMINE THE WORK OF OTHER CONTRACTORS AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT.
E	THE OWNER HOLDS RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ELECTRICAL EQUIPMENT.
F	ALL ELECTRICAL ITEMS SHOWN WITH LIGHT LINEWORK ARE EXISTING TO REMAIN.
G	REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BOLD/DASHED LINEWORK COMPLETE.
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SITE DEMOLITION PLAN NOTES

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6	DISCONNECT EXISTING PIV. REMOVE WIRE AND CONDUIT COMPLETE.

2A SITE DEMOLITION PLAN - SECTOR 5
1" = 30'-0"

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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A1.2	ADDENDUM 1.2	01.13.2022

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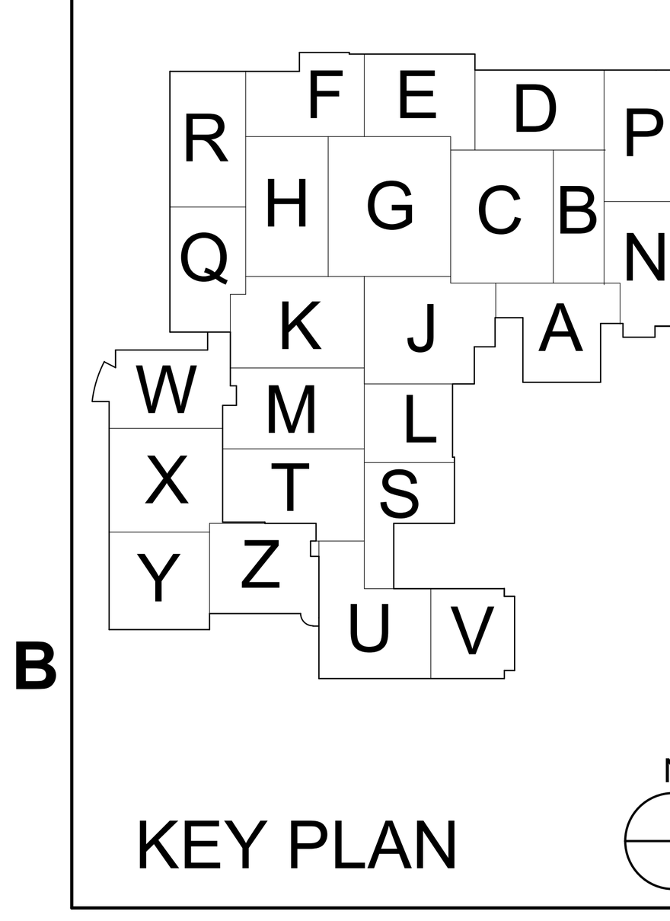

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE DEMOLITION PLAN - SECTOR 5

ESD105.2

GENERAL SITE DEMOLITION NOTES

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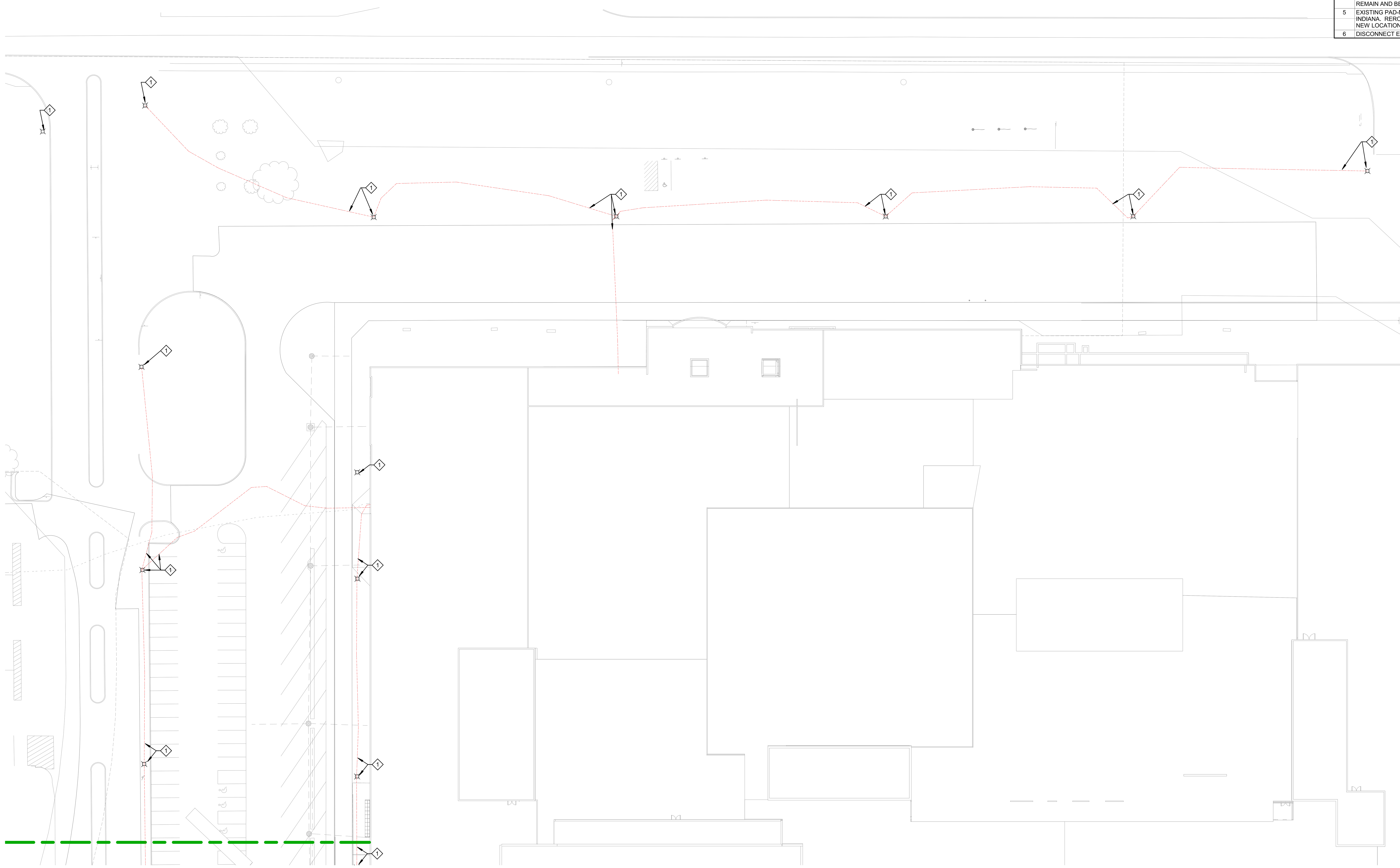

2A SITE DEMOLITION PLAN - SECTOR 6
1" = 30'-0"

SCHMIDT ASSOCIATES
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

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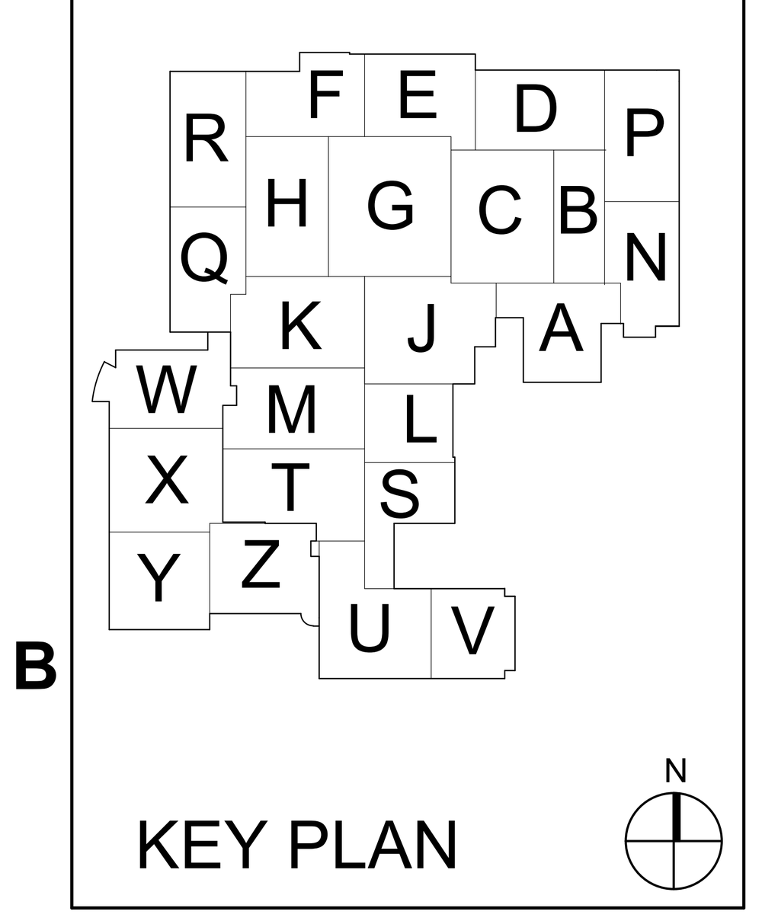

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE DEMOLITION PLAN - SECTOR 6

A1.2

ESD106.2

6 5 4 3 2 1

GENERAL SITE DEMOLITION NOTES

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SITE DEMOLITION PLAN NOTES

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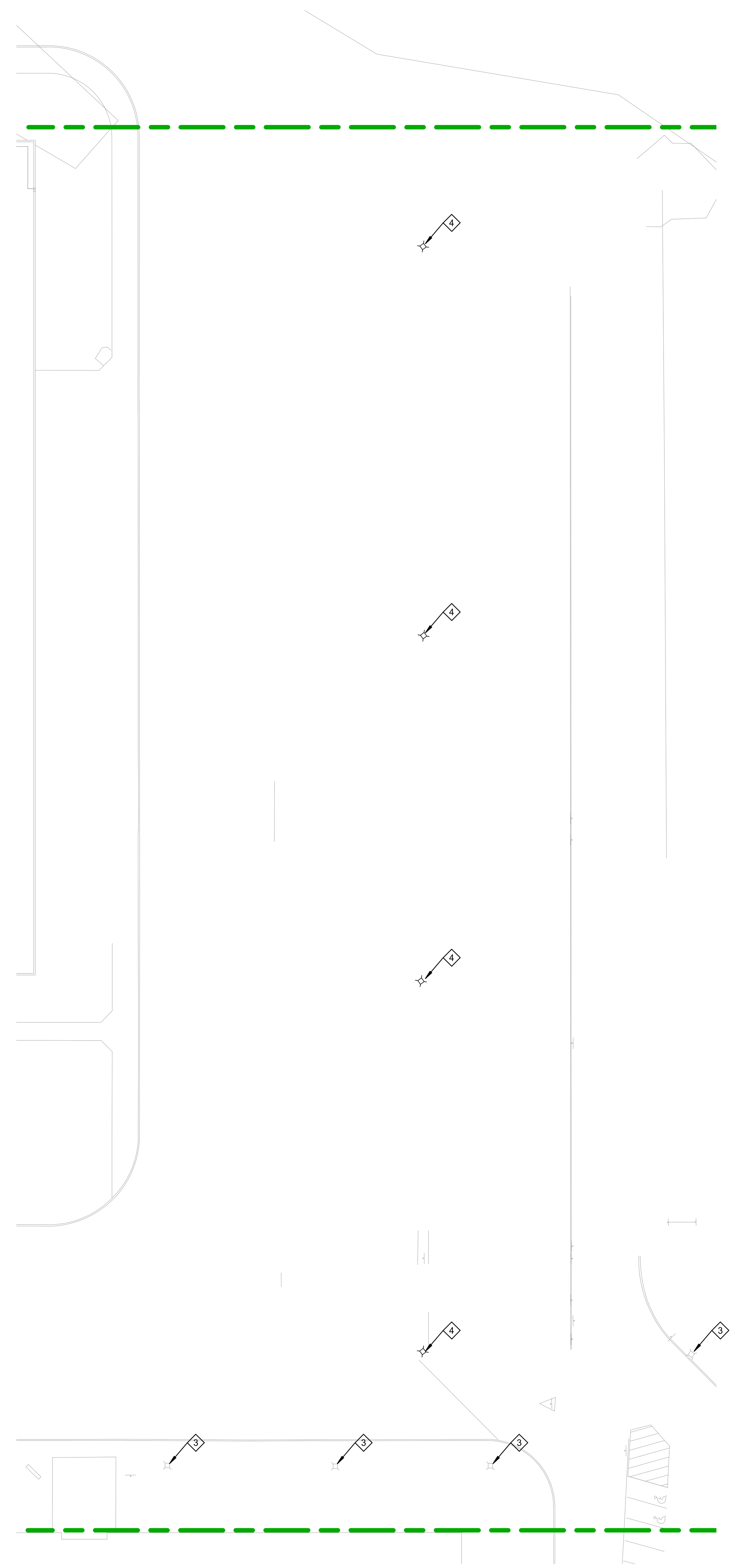
6	DISCONNECT EXISTING PIV. REMOVE WIRE AND CONDUIT COMPLETE.



2A SITE DEMOLITION PLAN - SECTOR 7
1" = 30'-0"

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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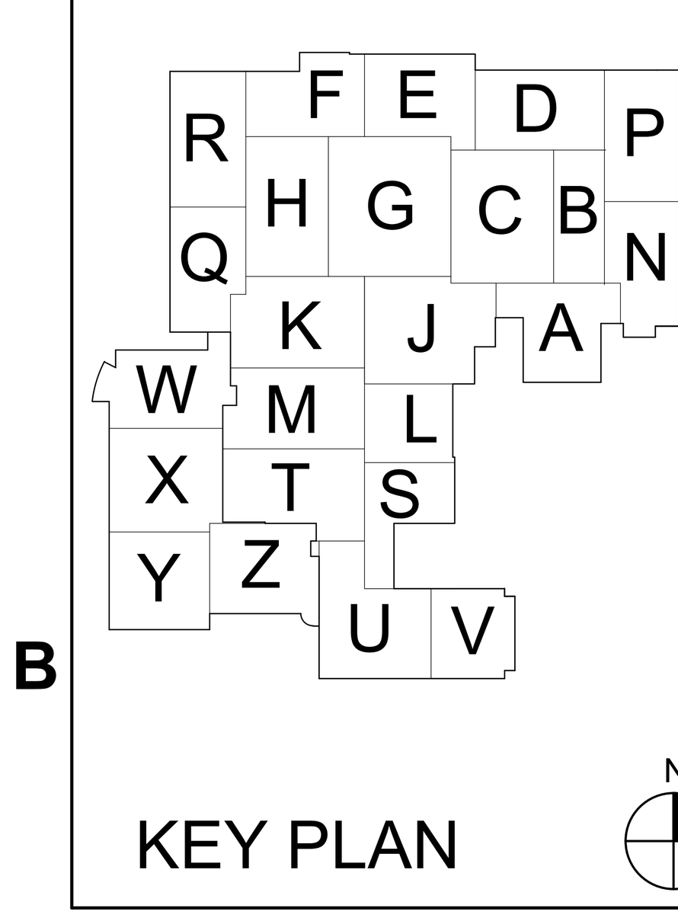
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE DEMOLITION PLAN - SECTOR 7

A1.2

ESD107.2

SECTOR 6

SECTOR 7

SECTOR 5

SECTOR 3

SECTOR 4

SECTOR 2

SECTOR 1

60' - 3 7/8"

1A SITE PLAN - OVERALL
1" = 100'-0"

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

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Project Date 12.06.2021
Bid Set 02
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SARAH KATHLEEN HEMPSTEAD
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NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE PLAN - OVERALL

A1.2

ES100.2

GENERAL SITE NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
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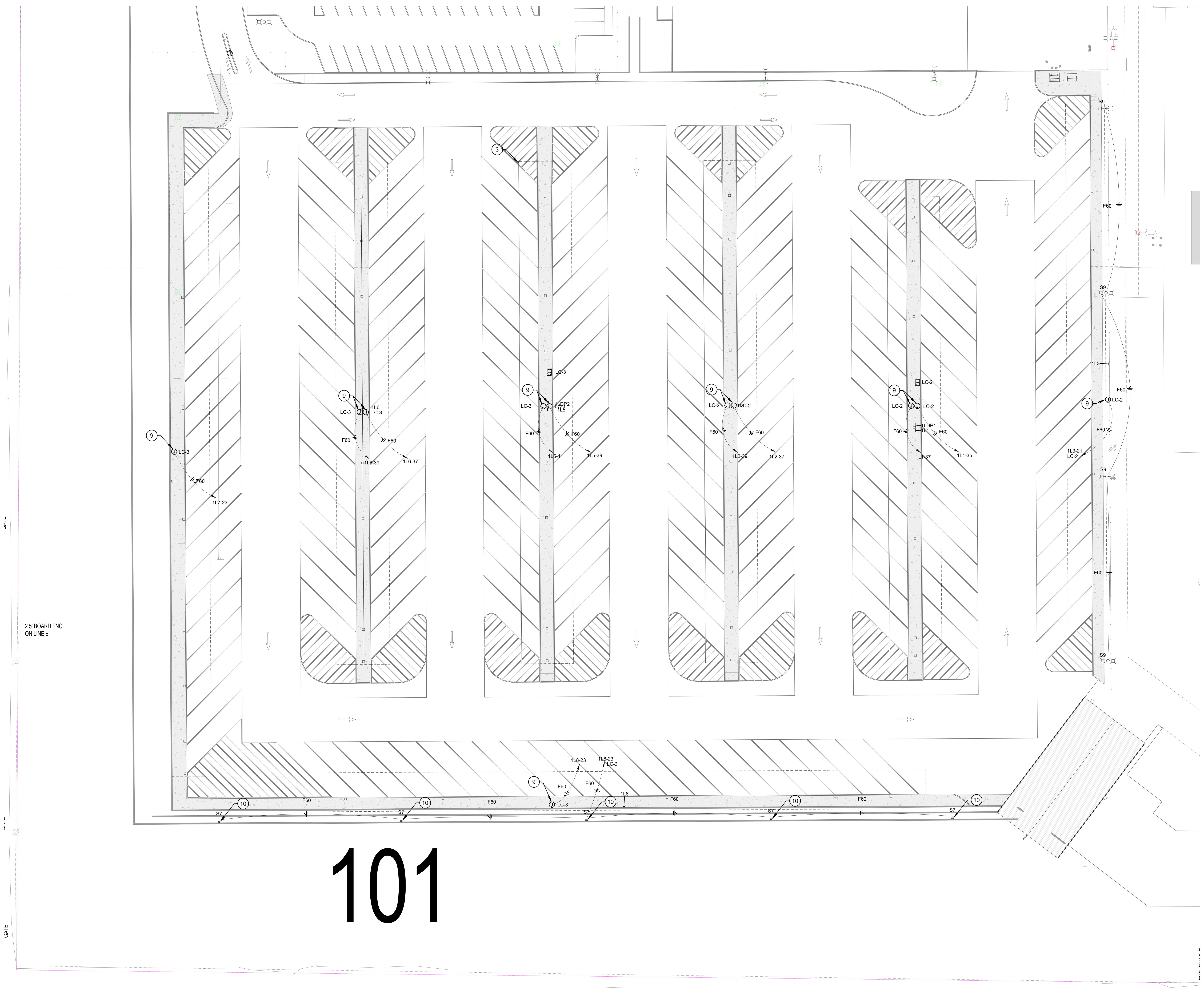
SITE PLAN NOTES

#	NOTES
1	SECONDARY CONDUCTORS, REFER TO RISER DIAGRAM DETAIL 2D/E-601.2 FOR ADDITIONAL INFORMATION.
2	GROUNDING TRIANGLE, SEE DETAIL 1A/E-502.2 FOR ADDITIONAL INFORMATION.
3	NEW BUS CANOPY (TYP).
4	BASE BID: PROVIDE POLE-MOUNTED FIXTURES INDICATED AND CONNECT COMPLETE TO CIRCUITS INDICATED. DELETE POLE-MOUNTED FIXTURES UNDER BUS CANOPY ALTERNATE BID.
5	BASE BID: PROVIDE POLE-MOUNTED FIXTURES INDICATED AND CONNECT COMPLETE TO CIRCUITS INDICATED. DELETE POLE-MOUNTED FIXTURES UNDER BUS CANOPY ALTERNATE BID.
6	BUS CANOPY ALTERNATE BID: CIRCUIT CONNECTIONS FOR CANOPY LIGHTING. LIGHTING IS PROVIDED BY CANOPY MANUFACTURER. COORDINATE ALL REQUIREMENTS WITH CANOPY MANUFACTURER.
7	REFER TO DETAIL 4A/E-502.2 FOR DISTRIBUTION BOARD/PANELBOARD MOUNTING DETAIL.
8	REFER TO DETAILS 1C/E-502.2 AND 2C/E-502.2 FOR BUS BLOCK HEATER RECEPTACLE DETAILS (TYP).
9	CIRCUIT CONNECTIONS FOR CANOPY LIGHTING. LIGHTING IS PROVIDED BY CANOPY MANUFACTURER. EVENLY SPLIT LIGHTING BETWEEN THE (2) CIRCUITS INDICATED. COORDINATE ALL REQUIREMENTS WITH CANOPY MANUFACTURER.
10	INSTALL BOTTOM OF FIXTURE AT 14'-0" A.F.G.
11	PROVIDE A 20A-2P CIRCUIT BREAKER WHERE THERE ARE EXISTING CIRCUIT BREAKERS OR IN THE EXISTING SPACE INDICATED. CONNECT COMPLETE.
12	EXISTING LIGHT FIXTURE, POLE, CONCRETE BASE, ETC. TO REMAIN.
13	EXTEND EXISTING LIGHTING CIRCUIT TO NEW POLE LOCATION. MATCH EXISTING WIRE AND CONDUIT SIZES.
14	NEW LOCATION FOR EXISTING POLE AND FIXTURE. CONNECT COMPLETE TO EXTENDED EXISTING CIRCUIT.
15	PROVIDE 42" A.F.G. POLE BASE. REFER TO DETAILS 1A/E502.2 AND 4C/E502.2.
16	PROVIDE 6" A.F.G. POLE BASE. REFER TO DETAILS 3A/E502.2 AND 4C/E502.2.
17	MAINTAIN EXISTING CIRCUIT TO SIGNAGE.
18	INSTALL (1) 1" PVC CONDUIT FOR FIRE ALARM SYSTEM CONNECTION TO PIV. LOCATE MONITORING MODULE IN PLUMBING, N274. INSTALL WIRING FROM PIV TO MODULE. COORDINATE FINAL PIV LOCATION WITH C-SERIES DRAWINGS.
19	IN GROUND FLAG POLE LIGHT FIXTURES. REFER TO LIGHT FIXTURE SCHEDULE AND DETAIL SHEET E-502.2. (TYPICAL).
20	EXISTING PAD-MOUNT AES INDIANA TRANSFORMER TO REMAIN.
21	EXISTING PAD-MOUNT AES INDIANA TRANSFORMER REPLACED/RELOCATED BY AES INDIANA. DISCONNECT AND RECONNECT EXISTING SECONDARY CONDUCTORS BETWEEN THE TRANSFORMER AND PANELBOARD MDP LOCATED IN NATATORIUM ELECTRICAL ROOM. EXISTING SECONDARY IS 3 SETS OF 4#300KCMIL, 3"C. MAINTAIN EXISTING ROUTING OF SECONDARY CONDUCTORS UNDER FLOOR SLAB UP INTO MDP.
22	NEW SECONDARY CONDUCTORS BETWEEN PAD-MOUNT TRANSFORMER REPLACED/RELOCATED BY AES INDIANA TO MSB-Z.
23	CIRCUIT CONNECTION FOR VEHICLE ACCESS CONTROL GATE. CONNECT COMPLETE TO CIRCUIT INDICATED. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER.
24	CONNECT TO A SPARE 20A-1P CIRCUIT BREAKER IN THE PANELBOARD INDICATED.
25	BASE BID: PROVIDE RETAINING WALL-MOUNTED FIXTURES INDICATED AND CONNECT COMPLETE TO CIRCUITS INDICATED. DELETE WALL-MOUNTED FIXTURES UNDER BUS CANOPY ALTERNATE BID.
26	NEW PAD-MOUNT TRANSFORMER BY AES INDIANA.
27	REFER TO 5C/E-502.2 SERIES FOR RECEPTACLE MOUNTING DETAIL.
28	BASE BID: PROVIDE EMPTY FEEDER CONDUIT FROM DISTRIBUTION PANELBOARD TO BRANCH CIRCUIT PANELBOARD LOCATION AND TERMINATE IN A QUAZITE BOX (NOT SHOWN). BUS CANOPY ALTERNATE BID: SCOPE OF WORK AS INDICATED.
29	IN-GRADE QUAZITE BOX FOR FUTURE TENNIS COURT LIGHTING. LOCATE BOX OUTSIDE OF POST TENSION SLAB.
30	INSTALL (4) EMPTY 1" CONDUITS BETWEEN PANELBOARD AND QUAZITE BOX FOR FUTURE TENNIS COURT LIGHTING.
31	INSTALL (3) EMPTY 1" CONDUITS BETWEEN QUAZITE BOXES FOR FUTURE TENNIS COURT LIGHTING.
32	INSTALL (2) EMPTY 1" CONDUITS BETWEEN QUAZITE BOXES FOR FUTURE TENNIS COURT LIGHTING.
33	PANELBOARD FEED FROM MSB-Z TO 1HTC1.



2A SITE LIGHTING PLAN - SECTOR 1
1" = 30'-0"

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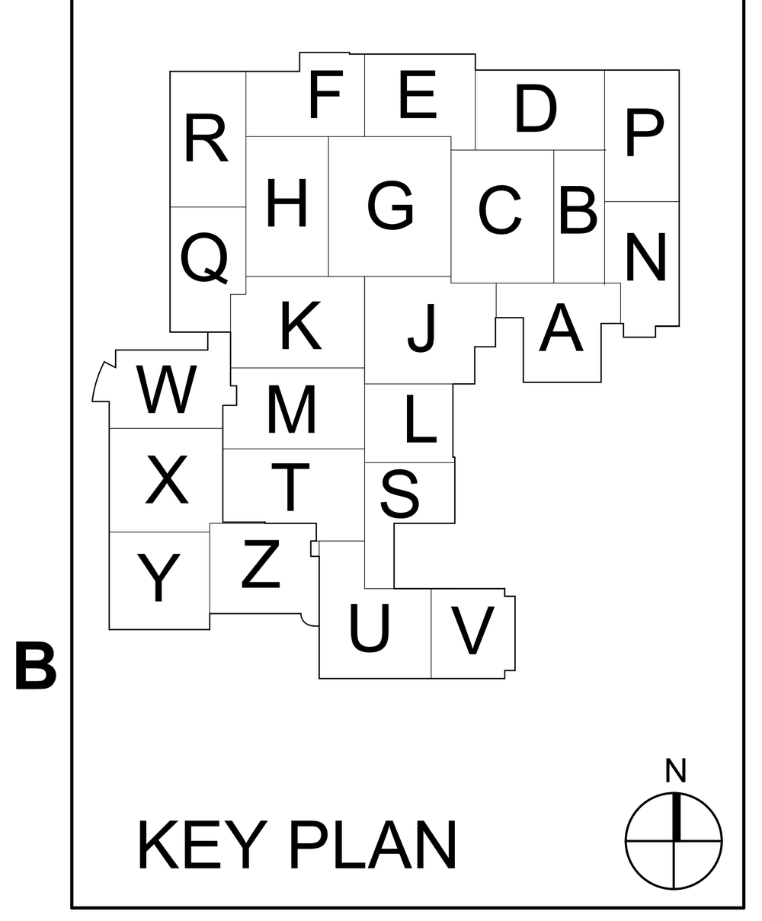

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE LIGHTING PLAN - SECTOR 1

ESL101.2

GENERAL SITE NOTES

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21	EXISTING PAD-MOUNT AES INDIANA TRANSFORMER REPLACED/RELOCATED BY AES INDIANA. DISCONNECT AND RECONNECT EXISTING SECONDARY CONDUCTORS BETWEEN THE TRANSFORMER AND PANELBOARD MDP LOCATED IN NATATORIUM ELECTRICAL ROOM. EXISTING SECONDARY IS 3 SETS OF 4#300KCMIL, 3"C. MAINTAIN EXISTING ROUTING OF SECONDARY CONDUCTORS UNDER FLOOR SLAB UP INTO MDP.
22	NEW SECONDARY CONDUCTORS BETWEEN PAD-MOUNT TRANSFORMER REPLACED/RELOCATED BY AES INDIANA TO MSB-Z.
23	CIRCUIT CONNECTION FOR VEHICLE ACCESS CONTROL GATE. CONNECT COMPLETE TO CIRCUIT INDICATED. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER.
24	CONNECT TO A SPARE 20A-1P CIRCUIT BREAKER IN THE PANELBOARD INDICATED.
25	BASE BID: PROVIDE RETAINING WALL-MOUNTED FIXTURES INDICATED AND CONNECT COMPLETE TO CIRCUITS INDICATED. DELETE WALL-MOUNTED FIXTURES UNDER BUS CANOPY ALTERNATE BID.
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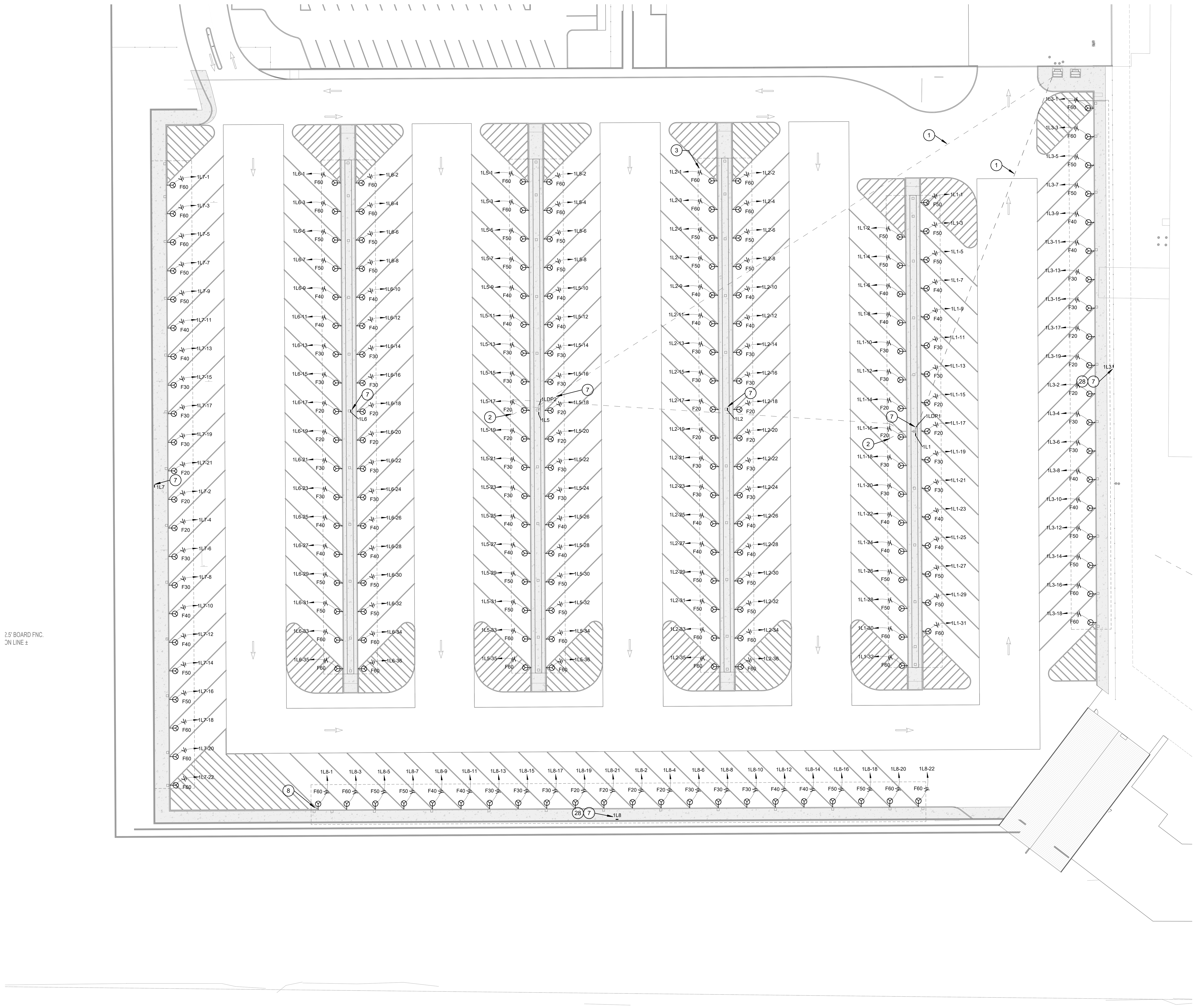

2A SITE POWER PLAN - SECTOR 1
1" = 30'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
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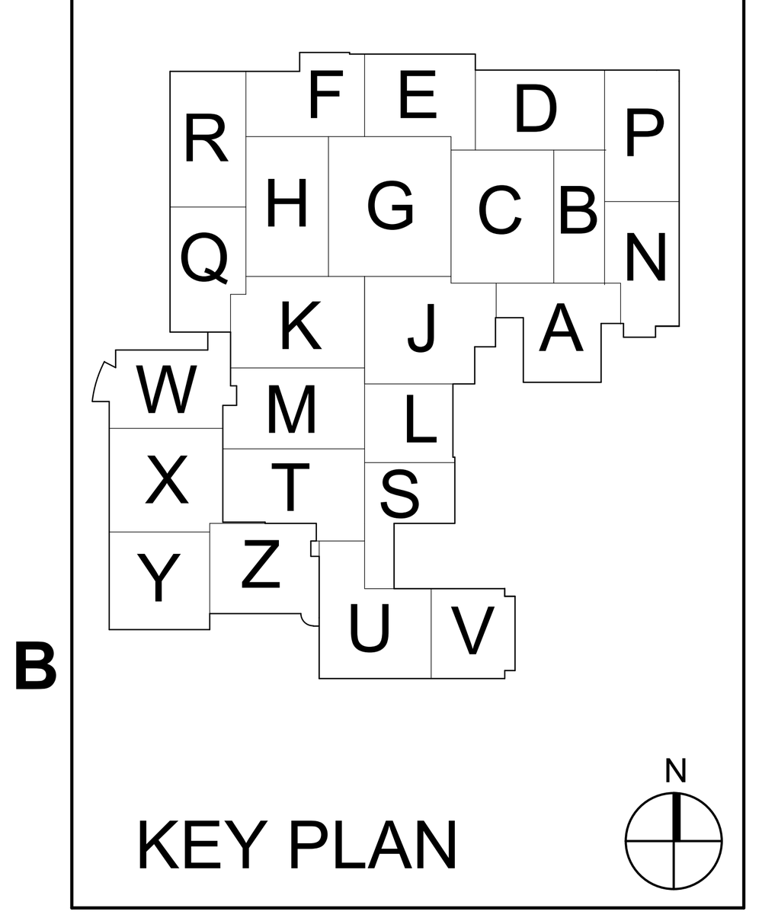

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE POWER PLAN - SECTOR 1

ESP101.2

GENERAL SITE NOTES

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SITE PLAN NOTES

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3	NEW BUS CANOPY (TYP).
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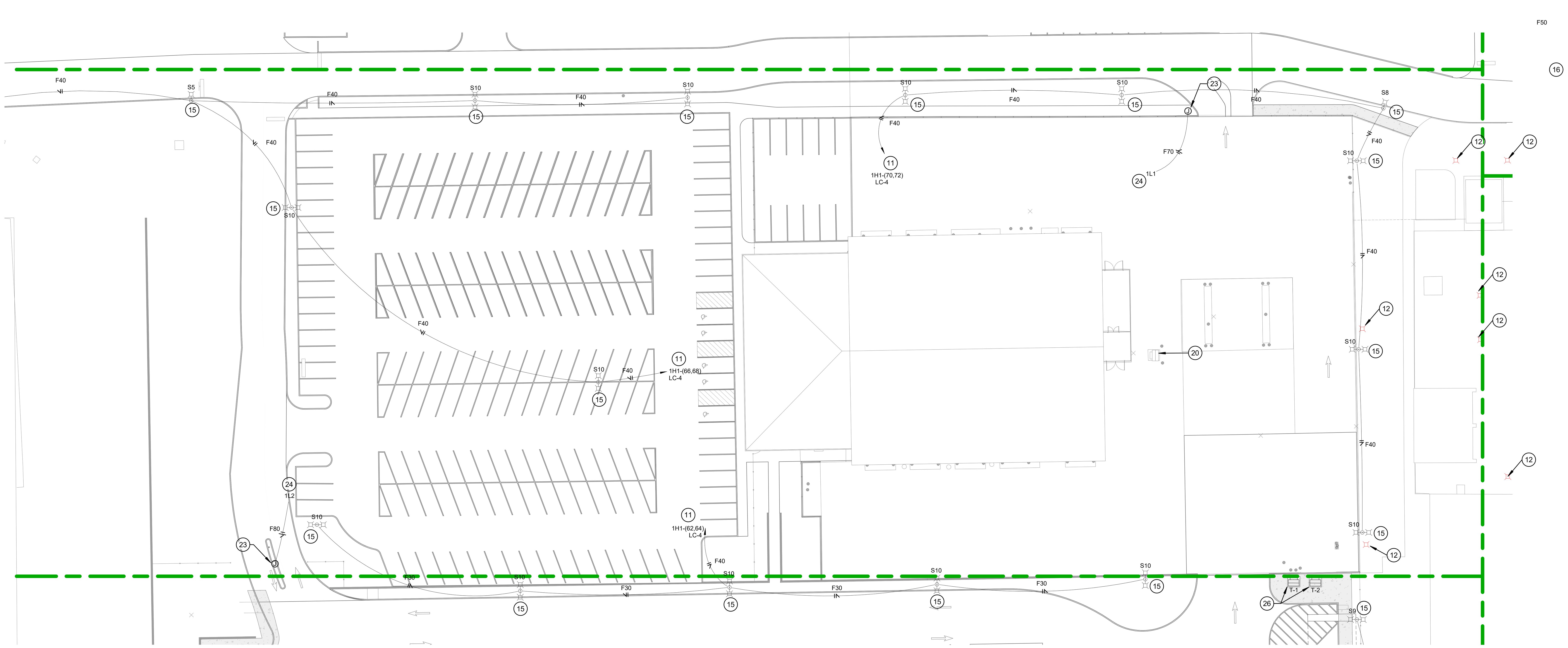

2A SITE PLAN - SECTOR 2
1" = 30'-0"

SCHMIDT ASSOCIATES
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Project No. 2019-067.NCH
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
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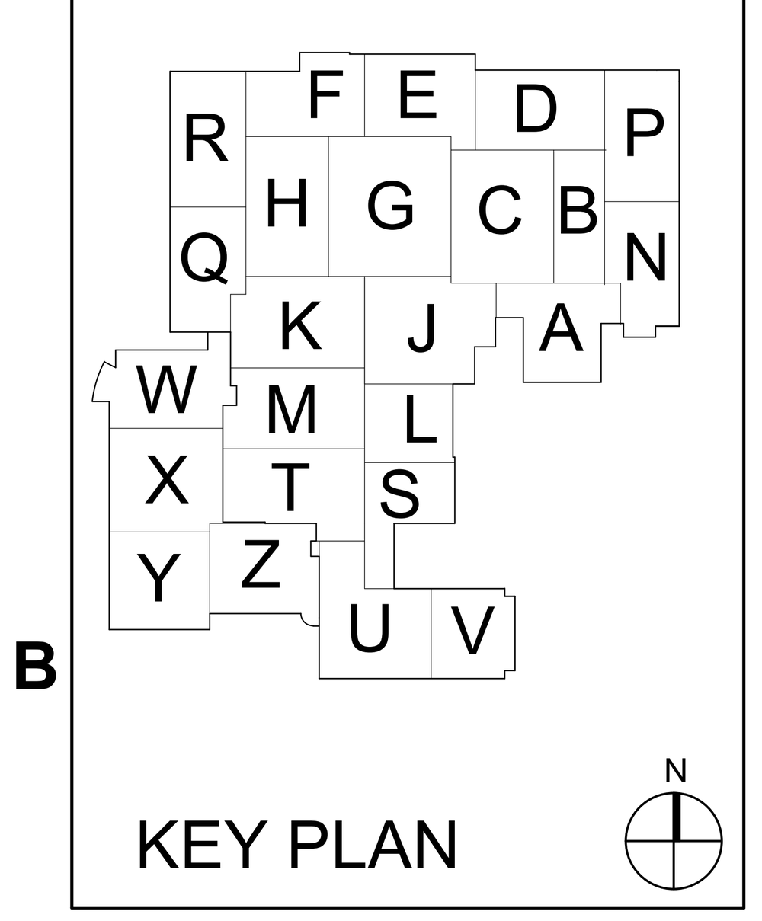

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE PLAN - SECTOR 2

ES102.2

GENERAL SITE NOTES

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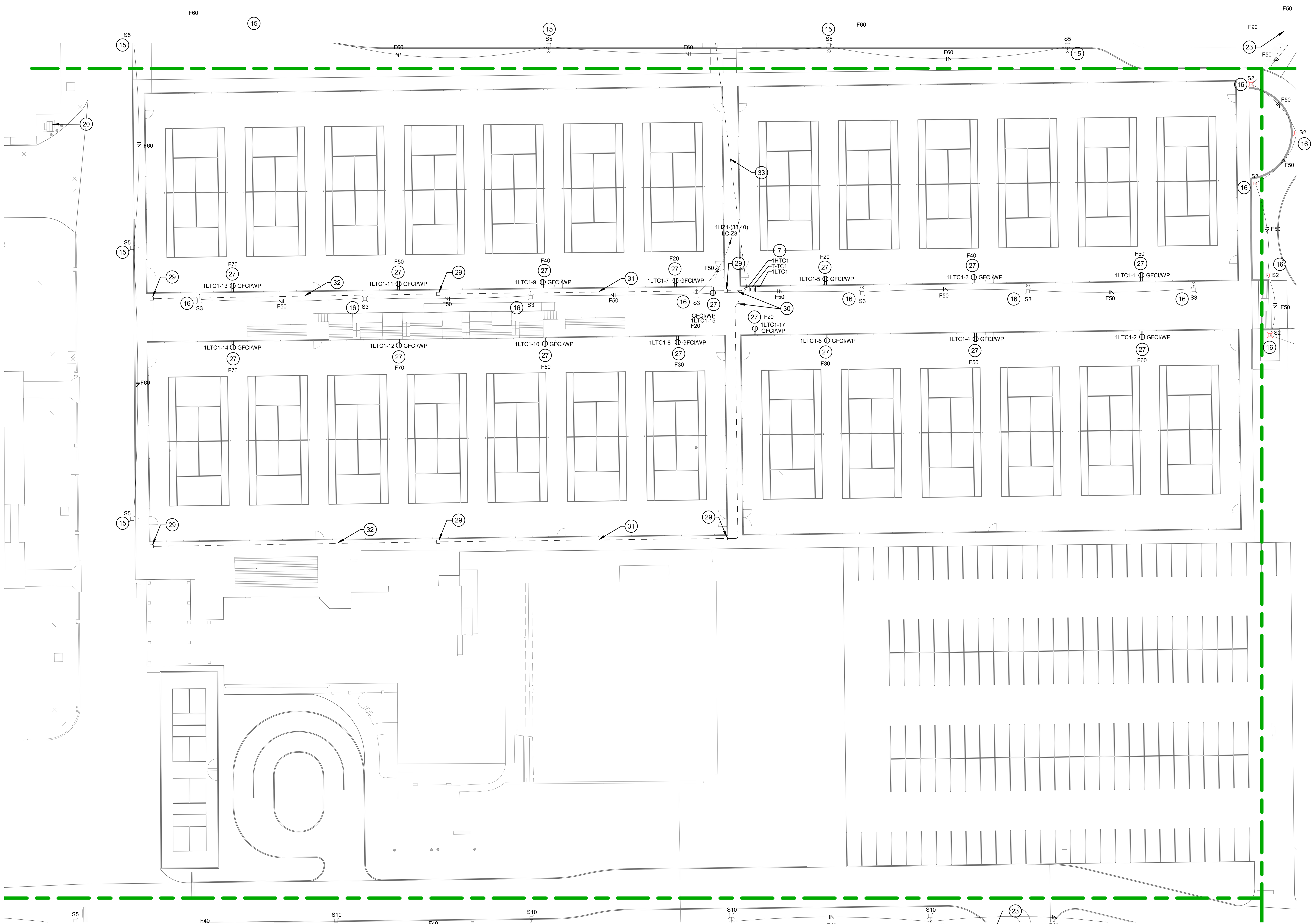

2A SITE PLAN - SECTOR 3
1" = 30'-0"

SCHMIDT ASSOCIATES
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Project No. 2019-067.NCH
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

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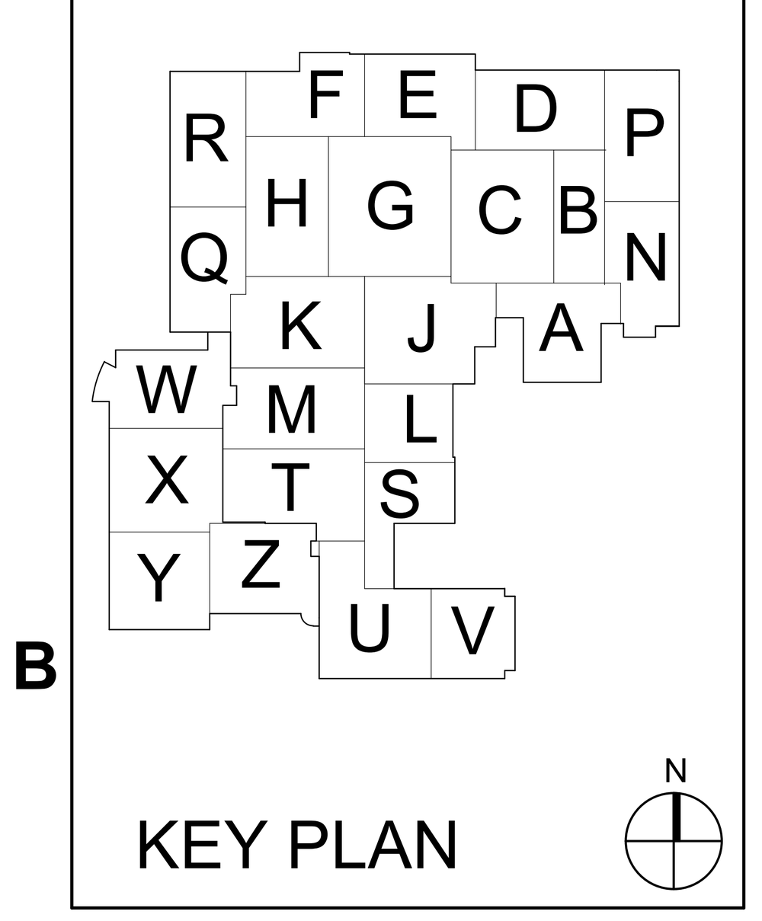

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE PLAN - SECTOR 3

ES103.2

GENERAL SITE NOTES

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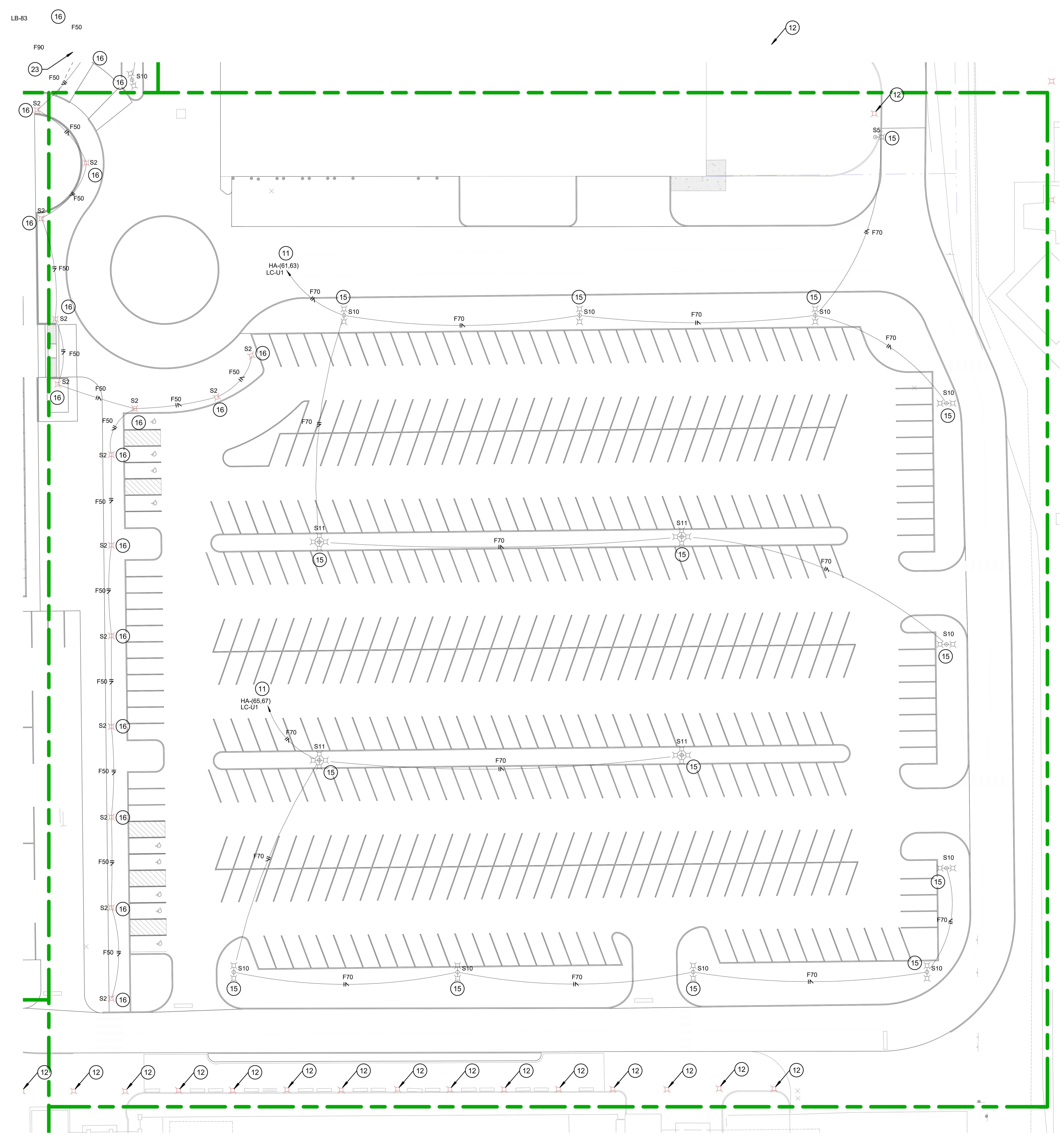

2A SITE PLAN - SECTOR 4
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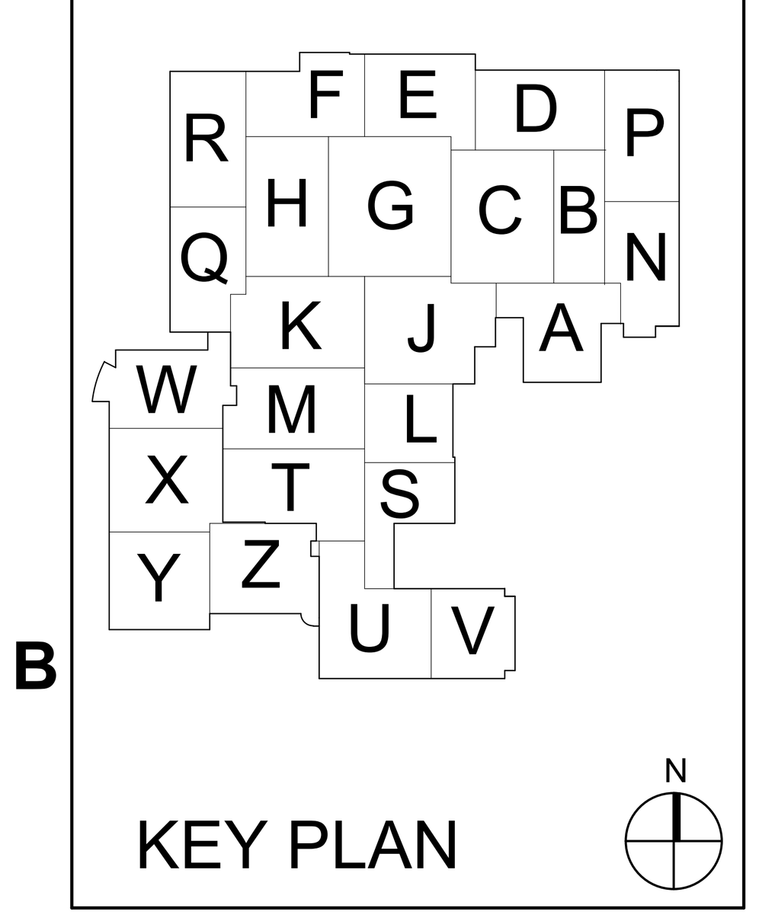


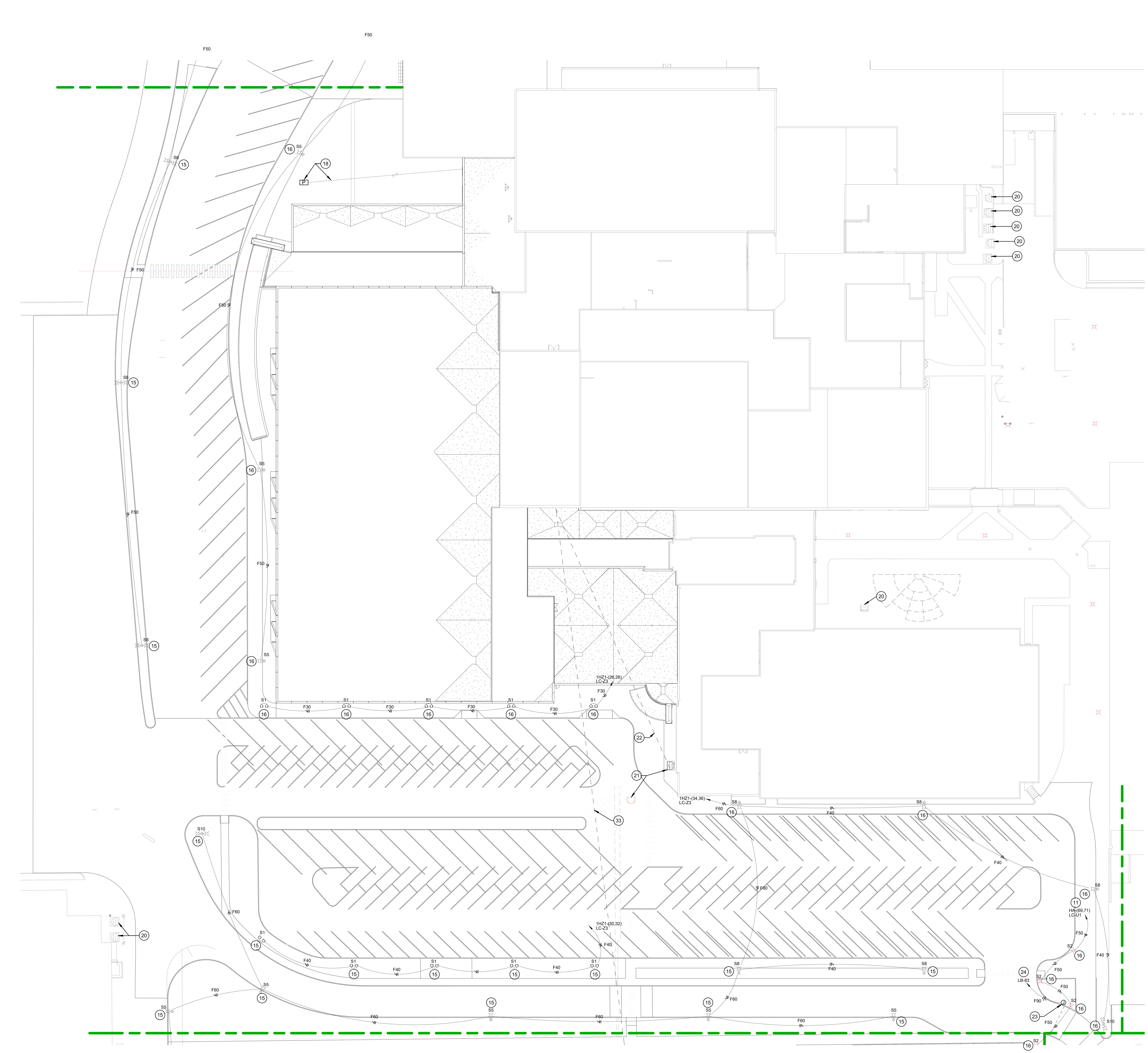
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE PLAN - SECTOR 4

ES104.2



2A SITE PLAN - SECTOR 5
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18	INSTALL (1) 1" PVC CONDUIT FOR FIRE ALARM SYSTEM CONNECTION TO PIV. LOCATE MONITORING MODULE IN PLUMBING, N274. INSTALL WIRING FROM PIV TO MODULE. COORDINATE FINAL PIV LOCATION WITH C-SERIES DRAWINGS.
19	IN GROUND FLAG POLE LIGHT FIXTURES. REFER TO LIGHT FIXTURE SCHEDULE AND DETAIL SHEET E-502.2. (TYPICAL).
20	EXISTING PAD-MOUNT AES INDIANA TRANSFORMER TO REMAIN.
21	EXISTING PAD-MOUNT AES INDIANA TRANSFORMER REPLACED/RELOCATED BY AES INDIANA. DISCONNECT AND RECONNECT EXISTING SECONDARY CONDUCTORS BETWEEN THE TRANSFORMER AND PANELBOARD MDP LOCATED IN NATATORIUM ELECTRICAL ROOM. EXISTING SECONDARY IS 3 SETS OF 4#300KCMIL, 3"C. MAINTAIN EXISTING ROUTING OF SECONDARY CONDUCTORS UNDER FLOOR SLAB UP INTO MDP.
22	NEW SECONDARY CONDUCTORS BETWEEN PAD-MOUNT TRANSFORMER REPLACED/RELOCATED BY AES INDIANA TO MSB-Z.
23	CIRCUIT CONNECTION FOR VEHICLE ACCESS CONTROL GATE. CONNECT COMPLETE TO CIRCUIT INDICATED. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER.
24	CONNECT TO A SPARE 20A-1P CIRCUIT BREAKER IN THE PANELBOARD INDICATED.
25	BASE BID: PROVIDE RETAINING WALL-MOUNTED FIXTURES INDICATED AND CONNECT COMPLETE TO CIRCUITS INDICATED. DELETE WALL-MOUNTED FIXTURES UNDER BUS CANOPY ALTERNATE BID.
26	NEW PAD-MOUNT TRANSFORMER BY AES INDIANA.
27	REFER TO 5C/E-502.2 SERIES FOR RECEPTACLE MOUNTING DETAIL.
28	BASE BID: PROVIDE EMPTY FEEDER CONDUIT FROM DISTRIBUTION PANELBOARD TO BRANCH CIRCUIT PANELBOARD LOCATION AND TERMINATE IN A QUAZITE BOX (NOT SHOWN). BUS CANOPY ALTERNATE BID: SCOPE OF WORK AS INDICATED.
29	IN-GRADE QUAZITE BOX FOR FUTURE TENNIS COURT LIGHTING. LOCATE BOX OUTSIDE OF POST TENSION SLAB.
30	INSTALL (4) EMPTY 1" CONDUITS BETWEEN PANELBOARD AND QUAZITE BOX FOR FUTURE TENNIS COURT LIGHTING.
31	INSTALL (3) EMPTY 1" CONDUITS BETWEEN QUAZITE BOXES FOR FUTURE TENNIS COURT LIGHTING.
32	INSTALL (2) EMPTY 1" CONDUITS BETWEEN QUAZITE BOXES FOR FUTURE TENNIS COURT LIGHTING.
33	PANELBOARD FEED FROM MSB-Z TO 1HTC1.

SCHMIDT ASSOCIATES
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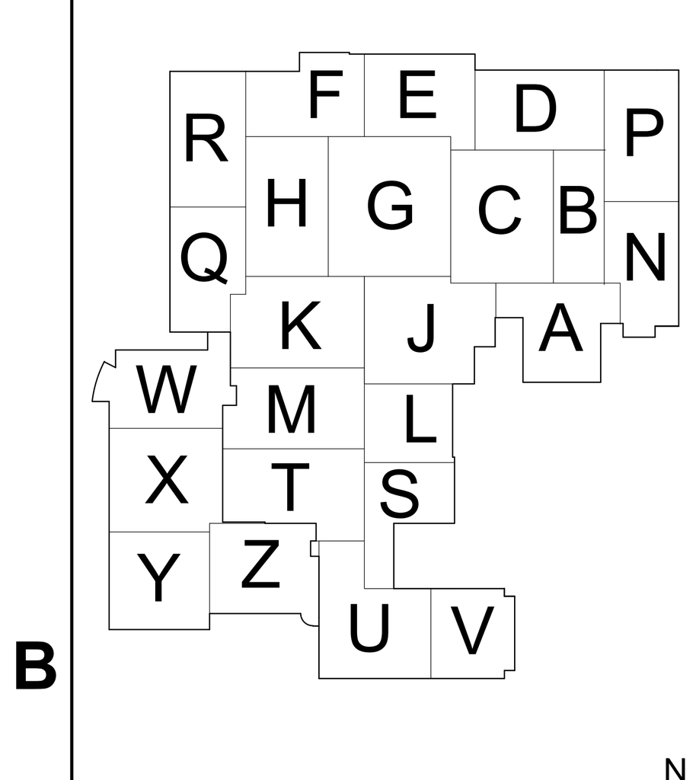
Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE PLAN - SECTOR 5

ES105.2

GENERAL SITE NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS AND REQUIREMENTS. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC. INCLUDE ALL UTILITY FEES REQUIRED IN BID.

SITE PLAN NOTES

#	NOTES
1	SECONDARY CONDUCTORS, REFER TO RISER DIAGRAM DETAIL 2D/E-601.2 FOR ADDITIONAL INFORMATION.
2	GROUNDING TRIANGLE, SEE DETAIL 1A/E-502.2 FOR ADDITIONAL INFORMATION.
3	NEW BUS CANOPY (TYP).
4	BASE BID: PROVIDE POLE-MOUNTED FIXTURES INDICATED AND CONNECT COMPLETE TO CIRCUITS INDICATED. DELETE POLE-MOUNTED FIXTURES UNDER BUS CANOPY ALTERNATE BID.
5	BASE BID: PROVIDE POLE-MOUNTED FIXTURES INDICATED AND CONNECT COMPLETE TO CIRCUITS INDICATED. DELETE POLE-MOUNTED FIXTURES UNDER BUS CANOPY ALTERNATE BID.
6	BUS CANOPY ALTERNATE BID: CIRCUIT CONNECTIONS FOR CANOPY LIGHTING. LIGHTING IS PROVIDED BY CANOPY MANUFACTURER. COORDINATE ALL REQUIREMENTS WITH CANOPY MANUFACTURER.
7	REFER TO DETAIL 4A/E-502.2 FOR DISTRIBUTION BOARD/PANELBOARD MOUNTING DETAIL.
8	REFER TO DETAILS 1C/E-502.2 AND 2C/E-502.2 FOR BUS BLOCK HEATER RECEPTACLE DETAILS (TYP).
9	CIRCUIT CONNECTIONS FOR CANOPY LIGHTING. LIGHTING IS PROVIDED BY CANOPY MANUFACTURER. EVENLY SPLIT LIGHTING BETWEEN THE (2) CIRCUITS INDICATED. COORDINATE ALL REQUIREMENTS WITH CANOPY MANUFACTURER.
10	INSTALL BOTTOM OF FIXTURE AT 14'-0" A.F.G.
11	PROVIDE A 20A-2P CIRCUIT BREAKER WHERE THERE ARE EXISTING CIRCUIT BREAKERS OR IN THE EXISTING SPACE INDICATED. CONNECT COMPLETE.
12	EXISTING LIGHT FIXTURE, POLE, CONCRETE BASE, ETC. TO REMAIN.
13	EXTEND EXISTING LIGHTING CIRCUIT TO NEW POLE LOCATION. MATCH EXISTING WIRE AND CONDUIT SIZES.
14	NEW LOCATION FOR EXISTING POLE AND FIXTURE. CONNECT COMPLETE TO EXTENDED EXISTING CIRCUIT.
15	PROVIDE 42" A.F.G. POLE BASE. REFER TO DETAILS 1A/E502.2 AND 4C/E502.2.
16	PROVIDE 6" A.F.G. POLE BASE. REFER TO DETAILS 3A/E502.2 AND 4C/E502.2.
17	MAINTAIN EXISTING CIRCUIT TO SIGNAGE.
18	INSTALL (1) 1" PVC CONDUIT FOR FIRE ALARM SYSTEM CONNECTION TO PIV. LOCATE MONITORING MODULE IN PLUMBING, N274. INSTALL WIRING FROM PIV TO MODULE. COORDINATE FINAL PIV LOCATION WITH C-SERIES DRAWINGS.
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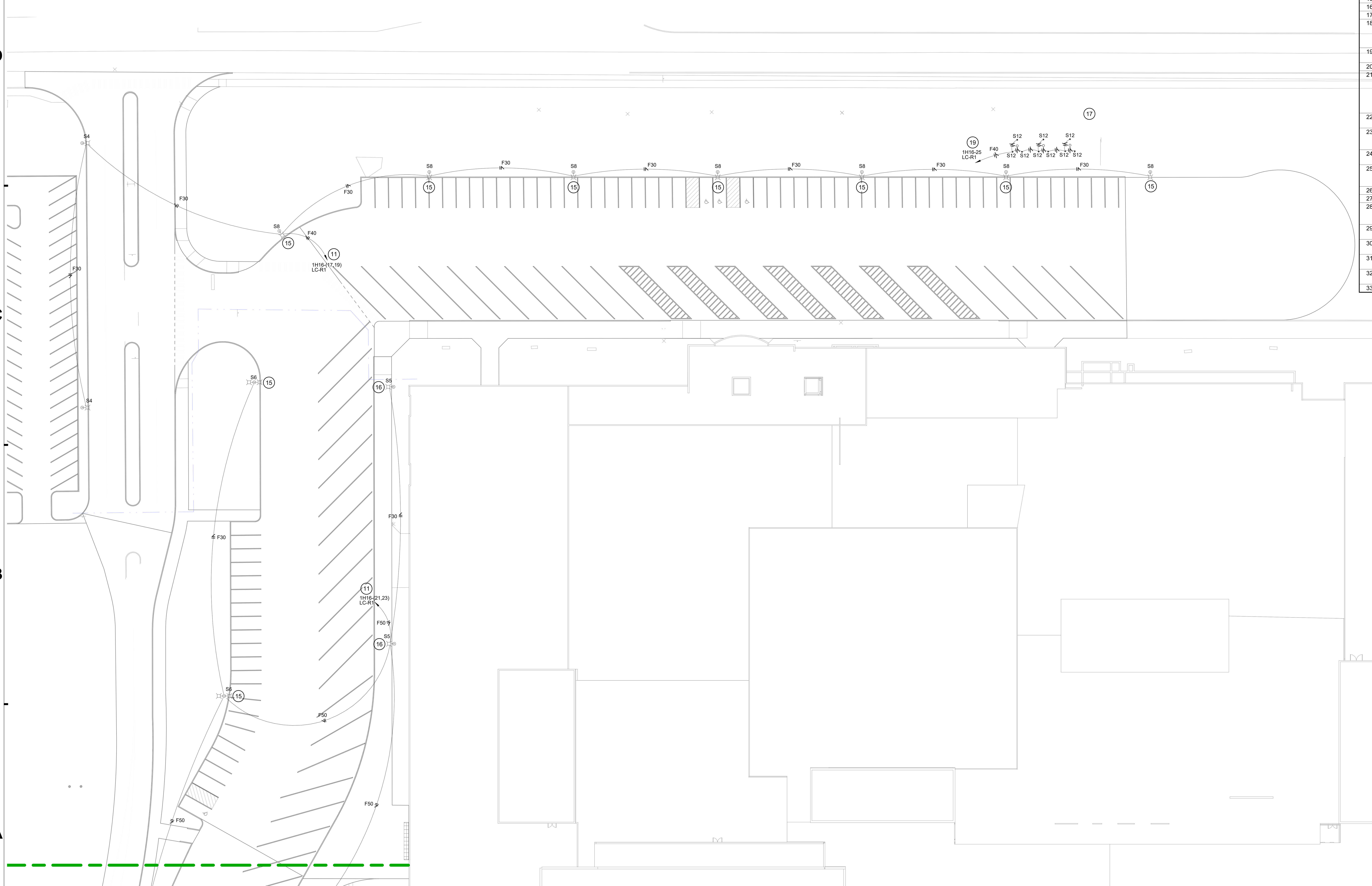
33	PANELBOARD FEED FROM MSB-Z TO 1HTC1.



2A SITE PLAN - SECTOR 6
1" = 30'-0"

SCHMIDT ASSOCIATES
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www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE PLAN - SECTOR 6

ES106.2

GENERAL SITE NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS AND REQUIREMENTS. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC. INCLUDE ALL UTILITY FEES REQUIRED IN BID.

SITE PLAN NOTES

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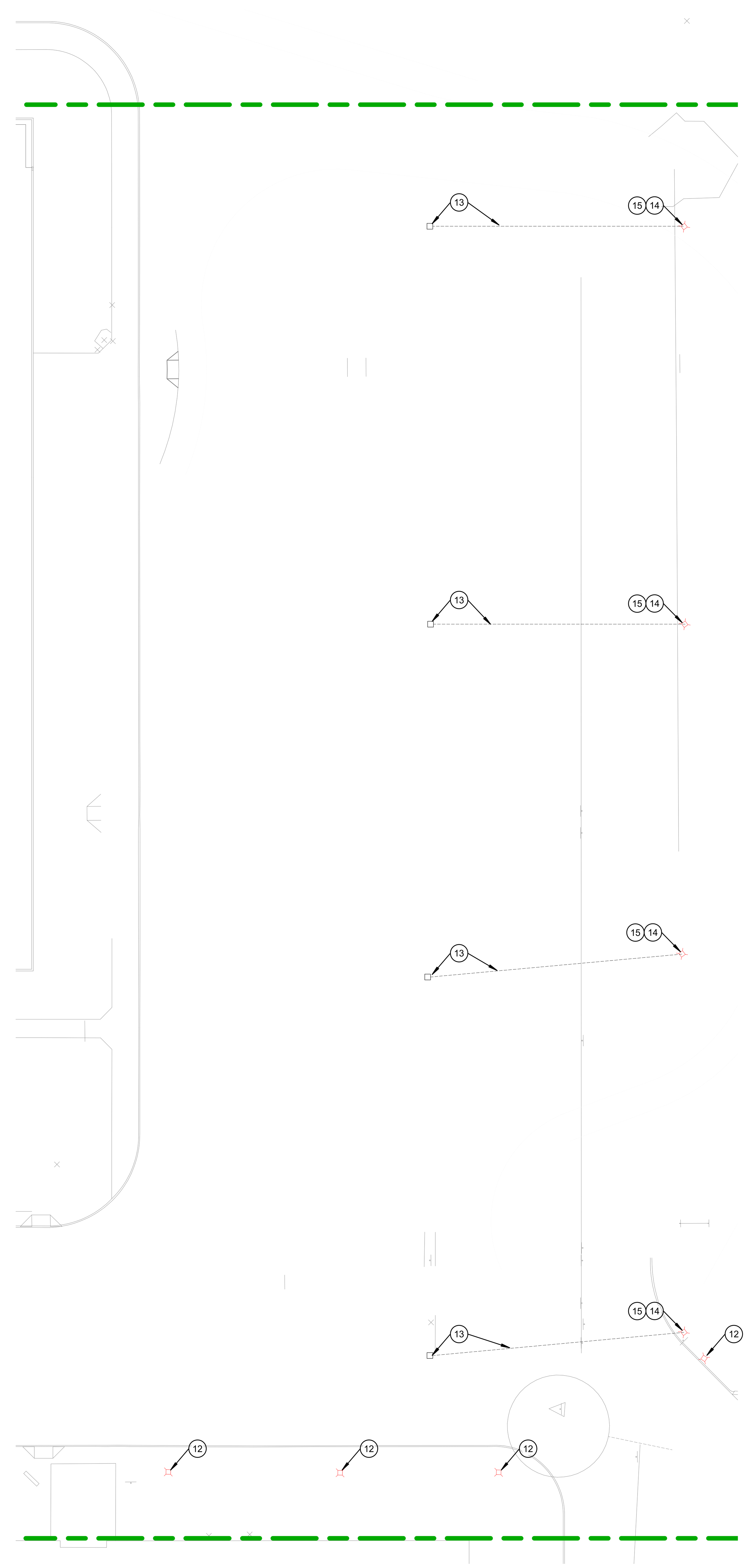


2A SITE PLAN - SECTOR 7
1" = 30'-0"

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

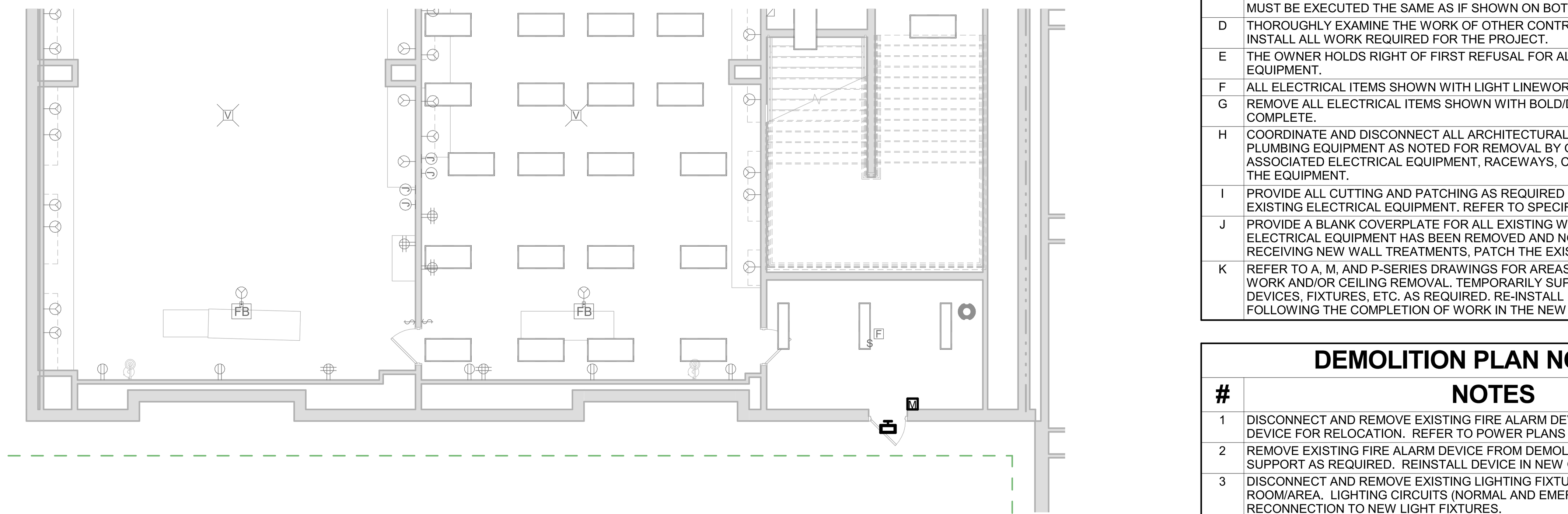
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE PLAN - SECTOR 7

ES107.2



2D PARTIAL FIRST FLOOR DEMOLITION PLAN - UNIT Q
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	THIS DRAWING REPRESENTS INFORMATION OBTAINED FROM ORIGINAL CONTRACT DRAWINGS AND FIELD SURVEY. VERIFY BY ON-SITE OBSERVATION THE EXTENT OF WORK PRIOR TO SUBMISSION OF BID.
C	CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND ARE MEANT TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
D	THOROUGHLY EXAMINE THE WORK OF OTHER CONTRACTORS AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT.
E	THE OWNER HOLDS RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ELECTRICAL EQUIPMENT.
F	ALL ELECTRICAL ITEMS SHOWN WITH LIGHT LINEWORK ARE EXISTING TO REMAIN.
G	REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BOLD/DASHED LINEWORK COMPLETE.
H	COORDINATE AND DISCONNECT ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING EQUIPMENT AS NOTED FOR REMOVAL BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SERVING THE EQUIPMENT.
I	PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS.
J	PROVIDE A BLANK COVERPLATE FOR ALL EXISTING WALL OPENINGS WHERE ELECTRICAL EQUIPMENT HAS BEEN REMOVED AND NOT REPLACED. IN AREAS RECEIVING NEW WALL TREATMENTS, PATCH THE EXISTING OPENING.
K	REFER TO A, M, AND P-SERIES DRAWINGS FOR AREAS WITH ABOVE CEILING WORK AND/OR CEILING REMOVAL. TEMPORARILY SUPPORT ALL ELECTRICAL DEVICES, FIXTURES, ETC. AS REQUIRED. RE-INSTALL ELECTRICAL ITEMS FOLLOWING THE COMPLETION OF WORK IN THE NEW OR EXISTING CEILINGS.

DEMOLITION PLAN NOTES

#	NOTES
1	DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE. PROTECT AND STORE DEVICE FOR RELOCATION. REFER TO POWER PLANS FOR NEW LOCATION.
2	REMOVE EXISTING FIRE ALARM DEVICE FROM DEMOLISHED CEILING. PROVIDE SUPPORT AS REQUIRED. REINSTALL DEVICE IN NEW CEILING AT SAME LOCATION.
3	DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES COMPLETE IN THIS ROOM/AREA. LIGHTING CIRCUITS (NORMAL AND EMERGENCY) WILL REMAIN FOR RECONNECTION TO NEW LIGHT FIXTURES.
4	ONE-FOR-ONE LIGHT FIXTURE REPLACEMENT. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE COMPLETE. EXISTING CIRCUIT WILL REMAIN FOR RECONNECTION TO NEW FIXTURE INSTALLED IN SAME LOCATION.
5	DISCONNECT AND REMOVE EXISTING RECEPTACLE AND WEATHERPROOF COVER COMPLETE. CIRCUIT WILL REMAIN FOR RECONNECTION TO NEW RECEPTACLE.
6	DISCONNECT AND REMOVE EXISTING PANELBOARDS. EXISTING FEEDERS AND BRANCH CIRCUITS WILL REMAIN FOR EXTENSION TO NEW PANELBOARD LOCATION. REFER TO RISER DIAGRAMS AND PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.
7	DISCONNECT AND REMOVE EXISTING RELAY PANEL AND BRANCH CIRCUITS COMPLETE.
8	DISCONNECT AND REMOVE EXISTING RELAY PANEL AND MOTOR CONTROLLER TOGGLE SWITCHES. EXISTING BRANCH CIRCUITS WILL REMAIN FOR EXTENSION TO NEW LOCATION.
9	RELOCATE TOGGLE SWITCH (SURFACE-MOUNTED) TO WITHIN DISPLAY CASE.

A1.2

2A FIRST FLOOR DEMOLITION PLAN - UNIT M
1/8" = 1'-0"

SCHMIDT ASSOCIATES
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Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
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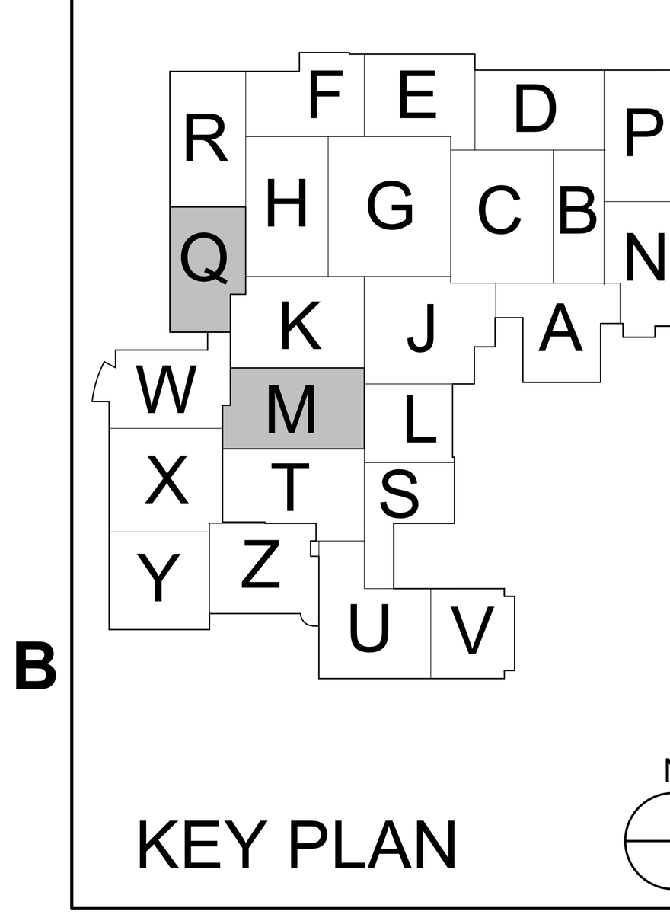


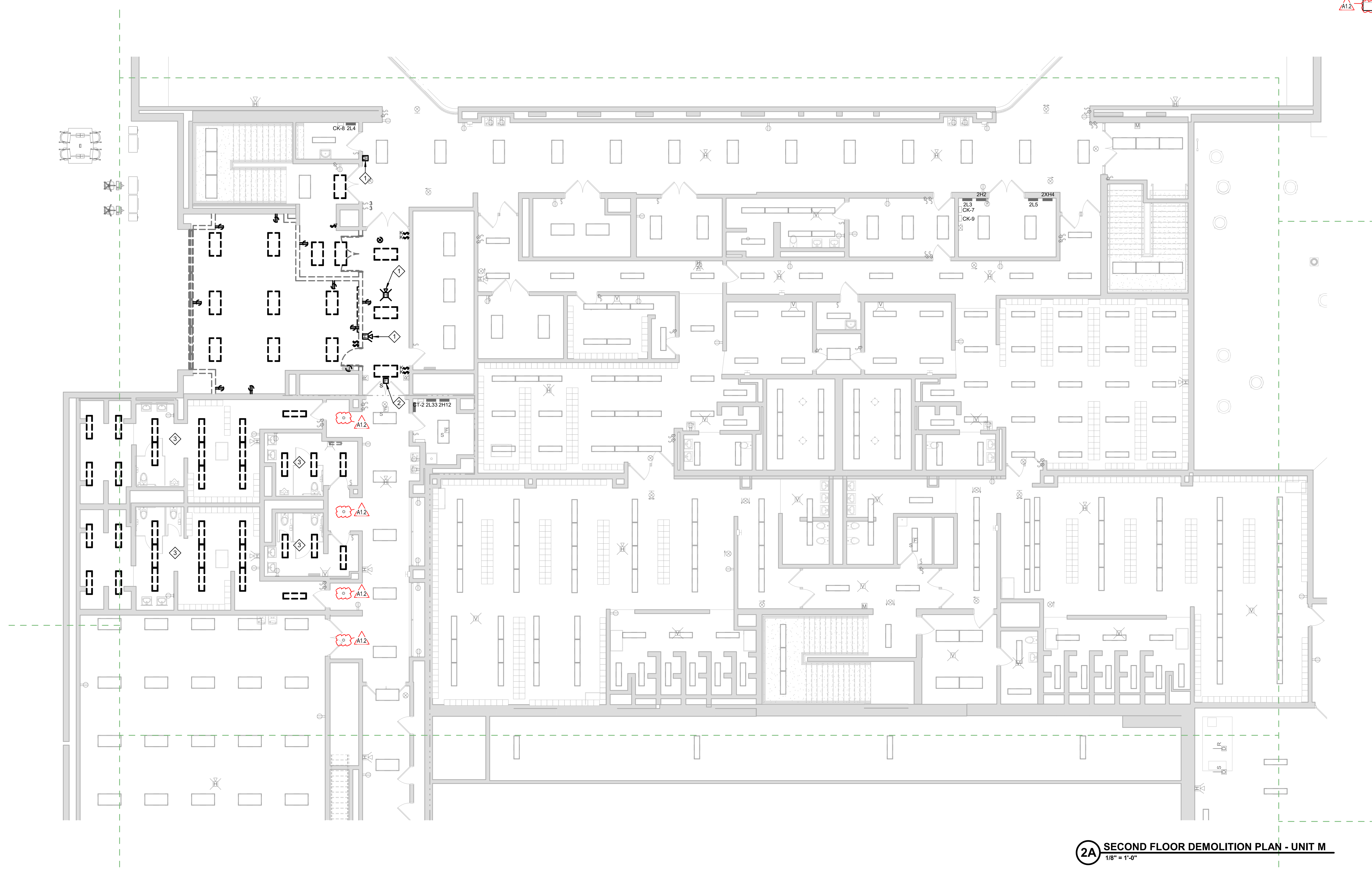
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

PARTIAL FIRST FLOOR DEMOLITION PLAN - UNITS M & Q

ED1M1.2



2A SECOND FLOOR DEMOLITION PLAN - UNIT M
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	THIS DRAWING REPRESENTS INFORMATION OBTAINED FROM ORIGINAL CONTRACT DRAWINGS AND FIELD SURVEY. VERIFY BY ON-SITE OBSERVATION THE EXTENT OF WORK PRIOR TO SUBMISSION OF BID.
C	CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND ARE MEANT TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
D	THOROUGHLY EXAMINE THE WORK OF OTHER CONTRACTORS AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT.
E	THE OWNER HOLDS RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ELECTRICAL EQUIPMENT.
F	ALL ELECTRICAL ITEMS SHOWN WITH LIGHT LINEWORK ARE EXISTING TO REMAIN.
G	REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BOLD/DASHED LINEWORK COMPLETE.
H	COORDINATE AND DISCONNECT ALL ARCHITECTURAL, MECHANICAL, AND PLUMBING EQUIPMENT AS NOTED FOR REMOVAL BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL EQUIPMENT, RACEWAYS, CONDUCTORS, ETC. SERVING THE EQUIPMENT.
I	PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS.
J	PROVIDE A BLANK COVERPLATE FOR ALL EXISTING WALL OPENINGS WHERE ELECTRICAL EQUIPMENT HAS BEEN REMOVED AND NOT REPLACED. IN AREAS RECEIVING NEW WALL TREATMENTS, PATCH THE EXISTING OPENING.
K	REFER TO A, M, AND P-SERIES DRAWINGS FOR AREAS WITH ABOVE CEILING WORK AND/OR CEILING REMOVAL. TEMPORARILY SUPPORT ALL ELECTRICAL DEVICES, FIXTURES, ETC. AS REQUIRED. RE-INSTALL ELECTRICAL ITEMS FOLLOWING THE COMPLETION OF WORK IN THE NEW OR EXISTING CEILINGS.

DEMOLITION PLAN NOTES

#	NOTES
1	DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE. PROTECT AND STORE DEVICE FOR RELOCATION. REFER TO POWER PLANS FOR NEW LOCATION.
2	REMOVE EXISTING FIRE ALARM DEVICE FROM DEMOLISHED CEILING. PROVIDE SUPPORT AS REQUIRED. REINSTALL DEVICE IN NEW CEILING AT SAME LOCATION.
3	DISCONNECT AND REMOVE EXISTING LIGHTING FIXTURES COMPLETE IN THIS ROOM/AREA. LIGHTING CIRCUITS (NORMAL AND EMERGENCY) WILL REMAIN FOR RECONNECTION TO NEW LIGHT FIXTURES.
4	ONE-FOR-ONE LIGHT FIXTURE REPLACEMENT. DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE COMPLETE. EXISTING CIRCUIT WILL REMAIN FOR RECONNECTION TO NEW FIXTURE INSTALLED IN SAME LOCATION.
5	DISCONNECT AND REMOVE EXISTING RECEPTACLE AND WEATHERPROOF COVER COMPLETE. CIRCUIT WILL REMAIN FOR RECONNECTION TO NEW RECEPTACLE.
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9	RELOCATE TOGGLE SWITCH (SURFACE-MOUNTED) TO WITHIN DISPLAY CASE.

A1.2

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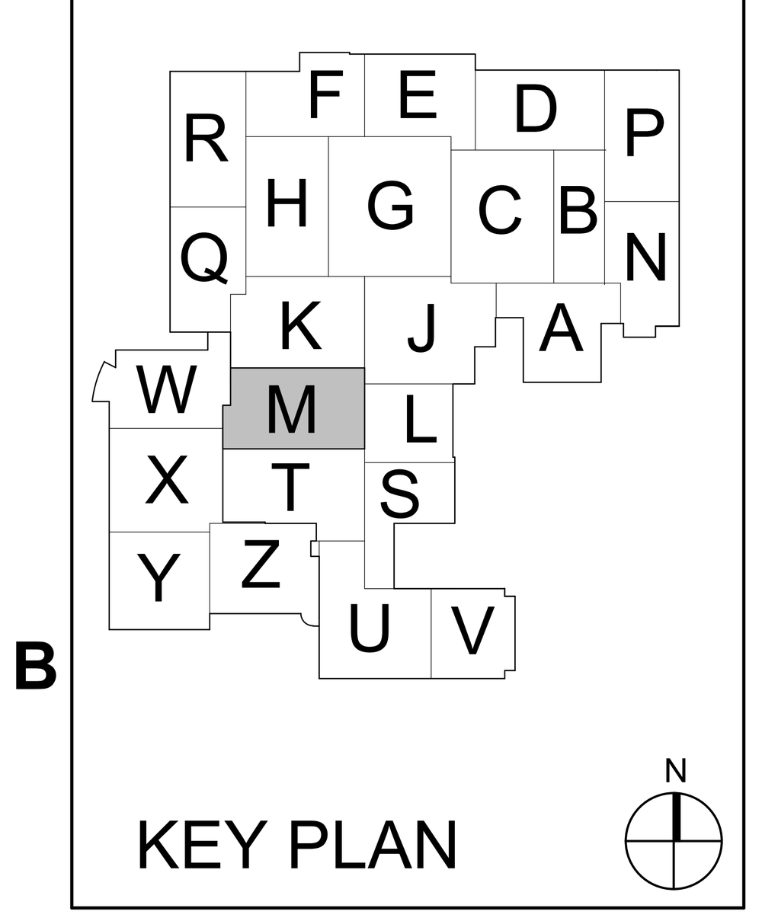

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SECOND FLOOR DEMOLITION PLAN - UNIT M

ED1M2.2

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES

#	NOTES
1	CONNECT NEW NORMAL AND/OR EMERGENCY LIGHT FIXTURES TO EXISTING NORMAL AND EMERGENCY CIRCUIT(S) SERVING THIS ROOM/AREA. MODIFY CIRCUITING AS REQUIRED FOR NEW LIGHTING CONTROLS.
2	ONE-FOR-ONE LIGHT FIXTURE REPLACEMENT. CONNECT NEW LIGHT FIXTURE TO CIRCUIT THAT WAS MAINTAINED DURING DEMOLITION. MODIFY CIRCUITING AS REQUIRED FOR EMERGENCY LIGHTING CHANGES AND/OR NEW LIGHTING CONTROLS.
3	PROVIDE UL 924 AUTOMATIC LOAD CONTROL RELAY IN OUTLET BOX FLUSH-MOUNTED IN CEILING TO ZONE CONTROL EMERGENCY LIGHTING IN THIS ROOM/SPACE. CONNECT UL 924 DEVICE TO NEW NORMAL AND EMERGENCY CIRCUITS INDICATED AT DEVICE. PROVIDE CIRCUITING AS REQUIRED FOR NEW CONTROLS. (APPLIES TO NEW ROOMS/SPACES WITH NORMAL AND EMERGENCY LIGHTING).
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9	CONNECT NEW FIXTURE TO EMERGENCY CIRCUIT IN THIS ROOM/AREA.
10	INSTALL DEVICE IN EXISTING SWITCH BOX.
11	DISPLAY CASES ALTERNATE: SURFACE MOUNT QUANTITY OF FIXTURES INDICATED TO INTERIOR TOP OF DISPLAY CASE. REFER TO A-SERIES FOR ADDITIONAL INFORMATION.
12	REFER TO SECOND FLOOR LIGHTING PLAN FOR FIXTURE LAYOUT AND CONTROLS FOR THIS ROOM/AREA.
13	REFER TO FIRST FLOOR LIGHTING PLAN FOR ADDITIONAL LIGHTING INFORMATION IN THIS ROOM/AREA.
14	(2) ZONE KEYPAD DIMMING STATION FOR HIGH BAY LIGHT FIXTURES IN GYM. REFER TO DASHED LINES ON SECOND FLOOR LIGHTING PLANS FOR ZONES. SEE SCHEMATICS FOR ADDITIONAL INFORMATION.
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30	INSTALL FIXTURE SURFACE MOUNTED TO BOTTOM OF CANOPY STRUCTURE. TYPICAL FOR ALL SHOWN.
31	COORDINATE FINAL LOCATION OF FLOOR-MOUNTED LIGHTING FIXTURES WITH OWNER PROVIDED PANTHER STATUES.
32	INSTALL FIXTURE TYPE INDICATED IN LIGHT BOX. REFER TO A-SERIES FOR LIGHT BOX DIMENSIONS. COORDINATE ALL INSTALLATION AND FINAL CIRCUITING WITH MANUFACTURER.

A1.2

2A FIRST FLOOR LIGHTING PLAN - UNIT M
1/8" = 1'-0"

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415 Massachusetts Avenue
Indianapolis, IN 46204
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Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD
REGISTERED
No. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

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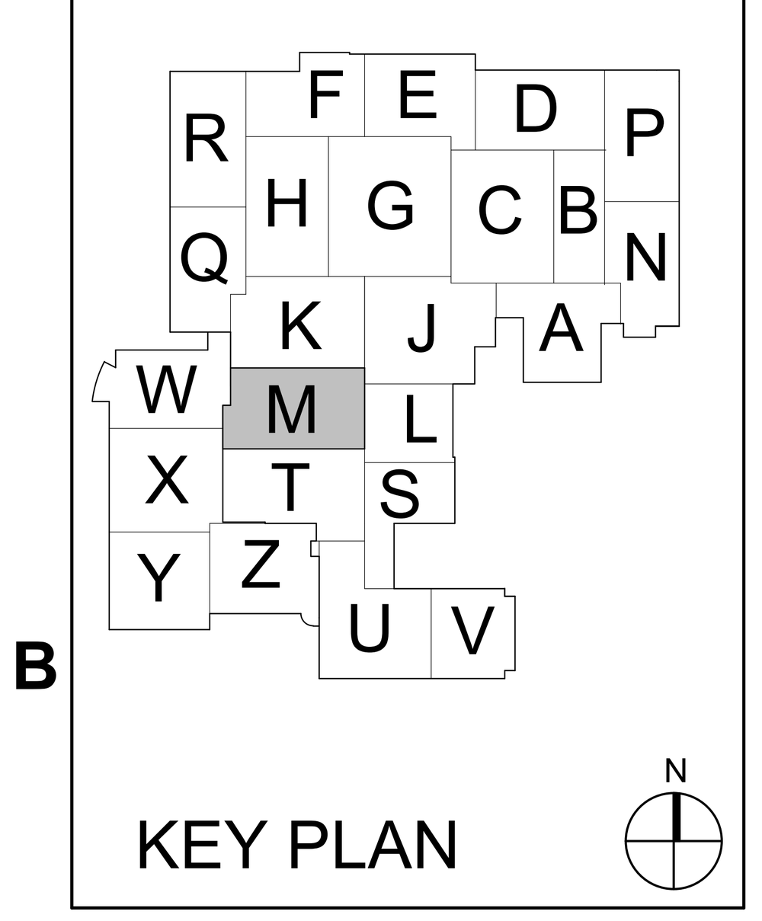
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR LIGHTING PLAN - UNIT M

EL1M1.2

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES

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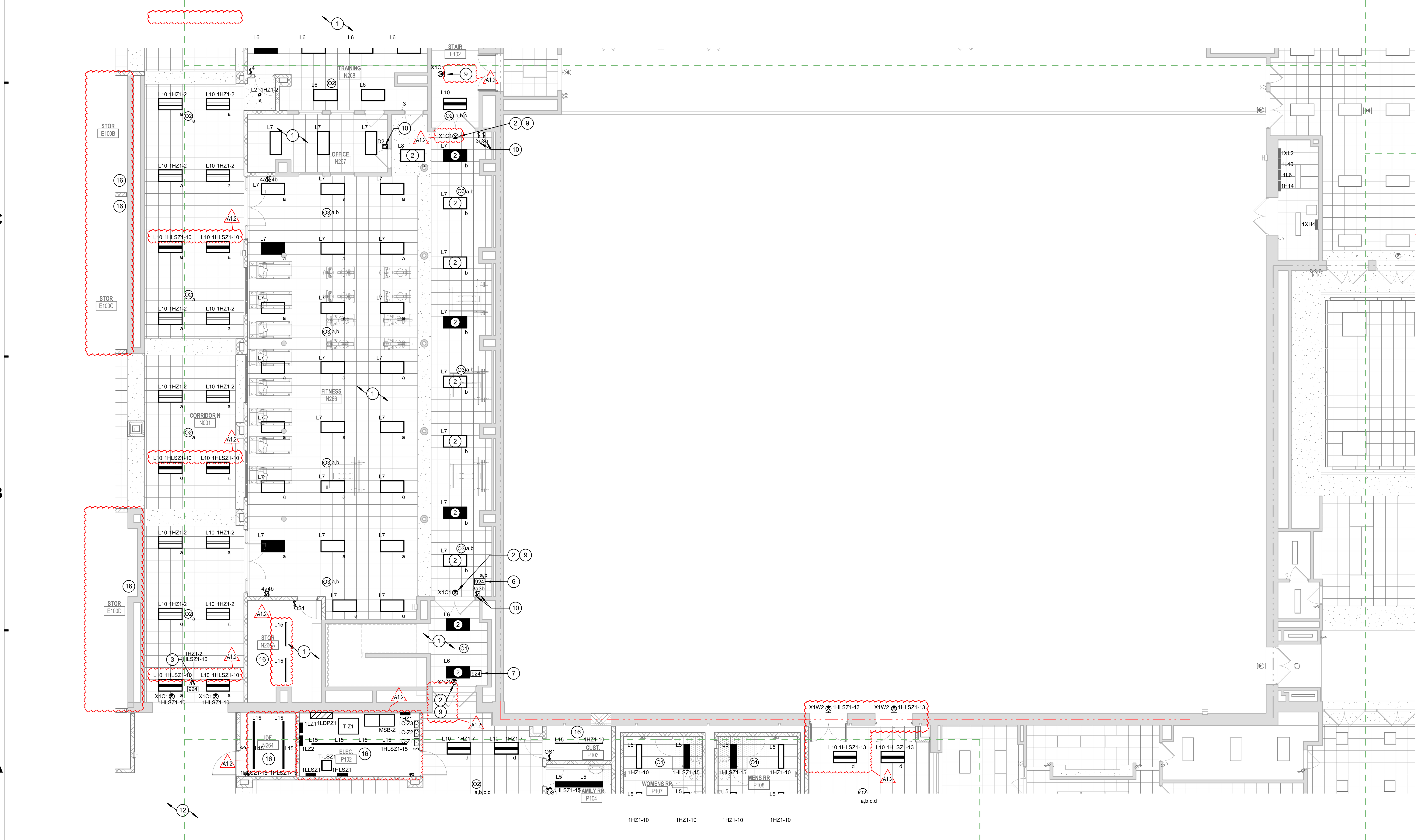

2A FIRST FLOOR LIGHTING PLAN - UNIT T
1/8" = 1'-0"

SCHMIDT ASSOCIATES
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Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

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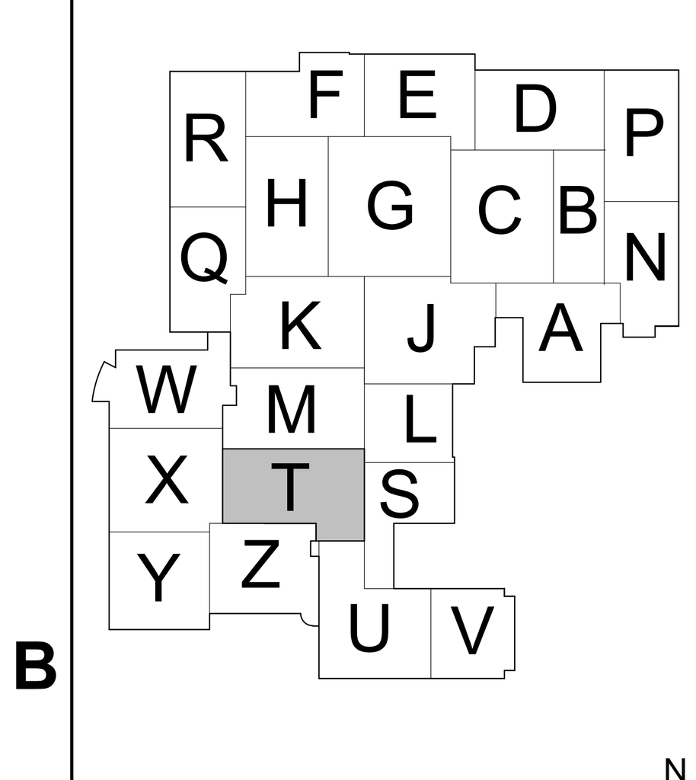


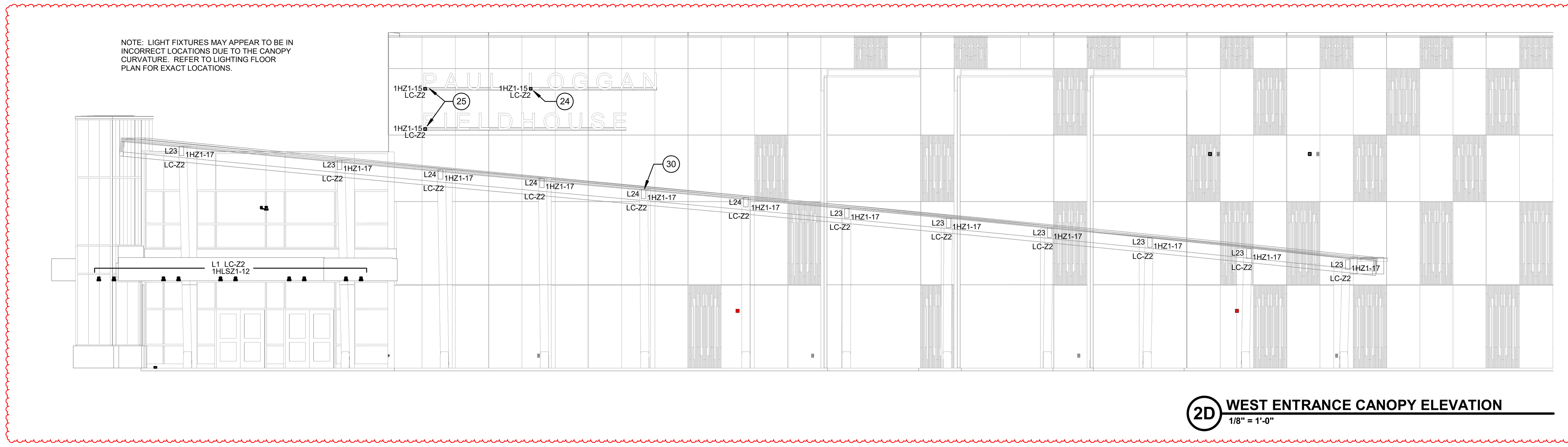
KEY PLAN

M.S.D. of Washington Township

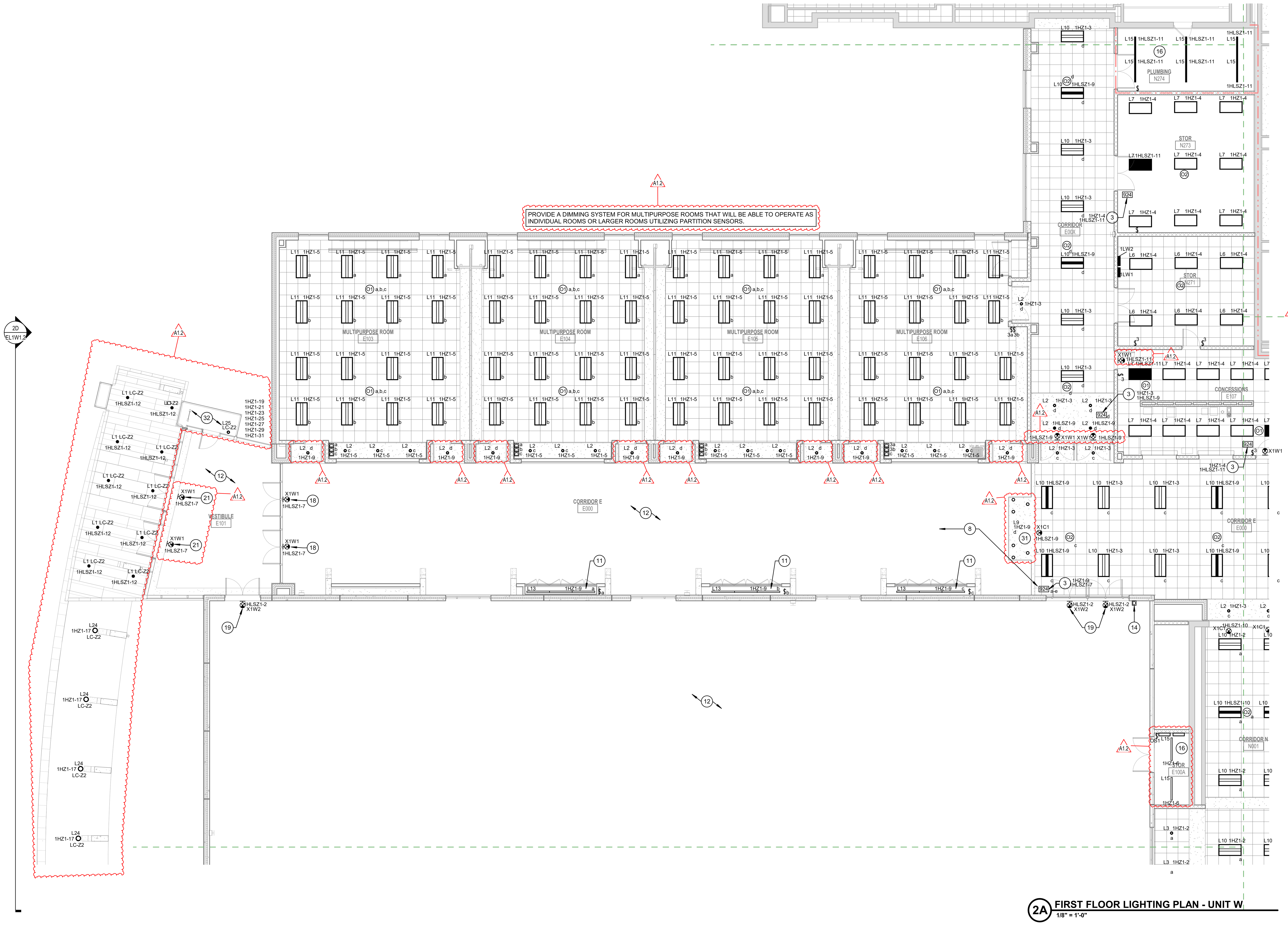
North Central High School Renovation - West Gym Addition

FIRST FLOOR LIGHTING PLAN - UNIT T

EL1T1.2



2D WEST ENTRANCE CANOPY ELEVATION
1/8" = 1'-0"



2A FIRST FLOOR LIGHTING PLAN - UNIT W
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GENERAL LIGHTING NOTES

#	NOTES
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LIGHTING PLAN NOTES

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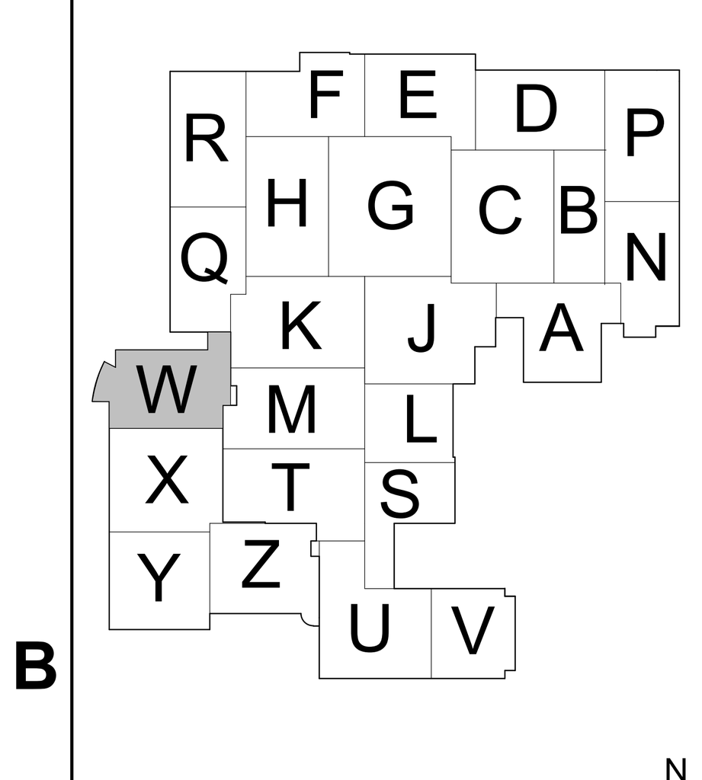


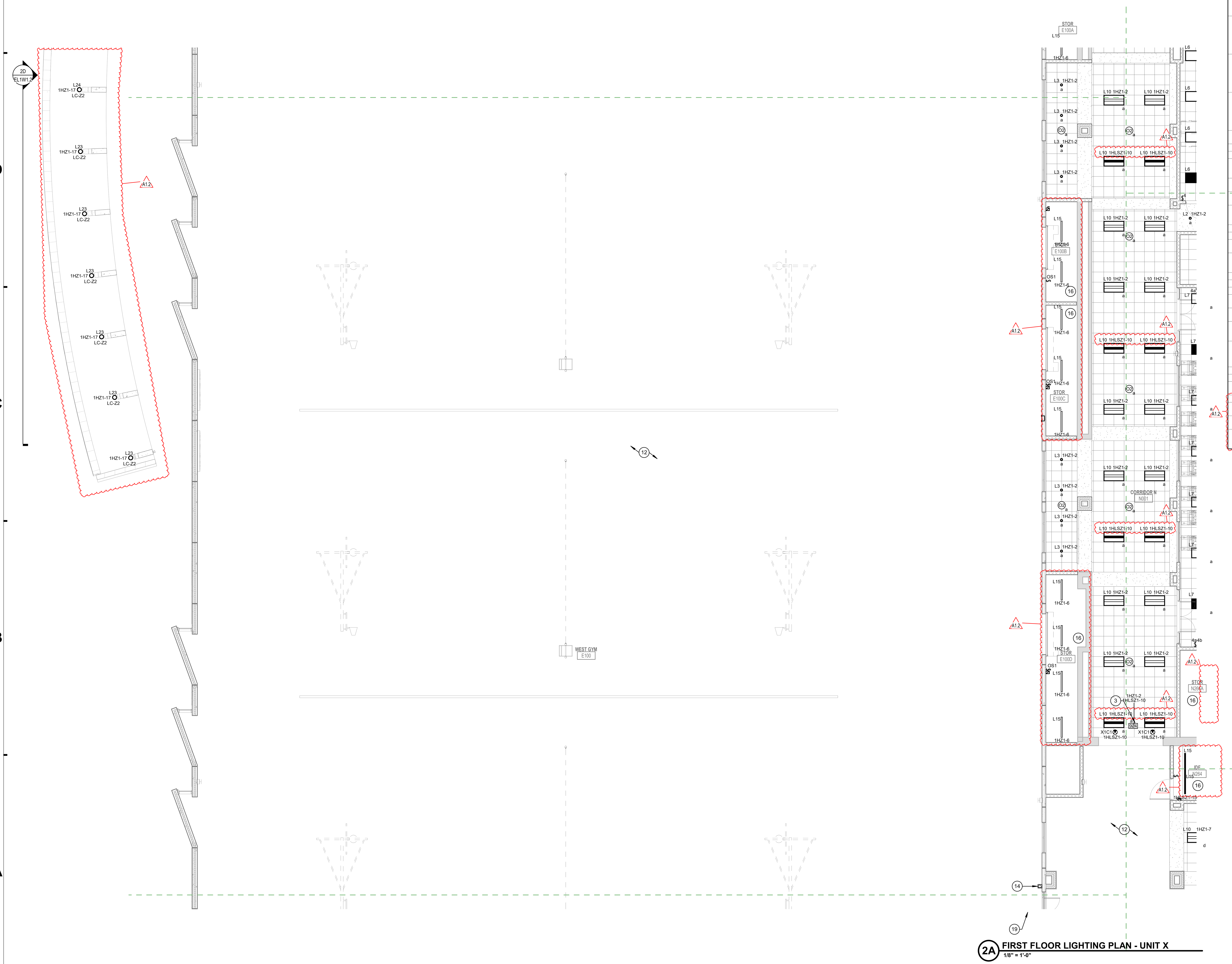
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR LIGHTING PLAN - UNIT W

EL1W1.2



2A FIRST FLOOR LIGHTING PLAN - UNIT X
1/8" = 1'-0"

GENERAL LIGHTING NOTES

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LIGHTING PLAN NOTES

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25	(2) CIRCUIT CONNECTIONS STACKED VERTICALLY FOR EXTERIOR BUILDING SIGNAGE LOCATED AT +28-9" A.F.F AND +33'-7" A.F.F. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH A-SERIES DRAWINGS AND SIGNAGE PROVIDER.
26	INSTALL FIXTURE AT +7-9" A.F.F. TO BOTTOM.
27	INSTALL FIXTURE AT +8-9" A.F.F. TO BOTTOM.
28	INSTALL BOTTOM OF FIXTURE FLUSH WITH BOTTOM OF STRUCTURE IN THIS ROOM/AREA.
29	RELOCATED SURFACE MOUNTED TOGGLE SWITCH FOR DISPLAY CASE LIGHTING.
30	INSTALL FIXTURE SURFACE MOUNTED TO BOTTOM OF CANOPY STRUCTURE. TYPICAL FOR ALL SHOWN.
31	COORDINATE FINAL LOCATION OF FLOOR-MOUNTED LIGHTING FIXTURES WITH OWNER PROVIDED PANTHER STATUES.
32	INSTALL FIXTURE TYPE INDICATED IN LIGHT BOX. REFER TO A-SERIES FOR LIGHT BOX DIMENSIONS. COORDINATE ALL INSTALLATION AND FINAL CIRCUITING WITH MANUFACTURER.

SCHMIDT ASSOCIATES
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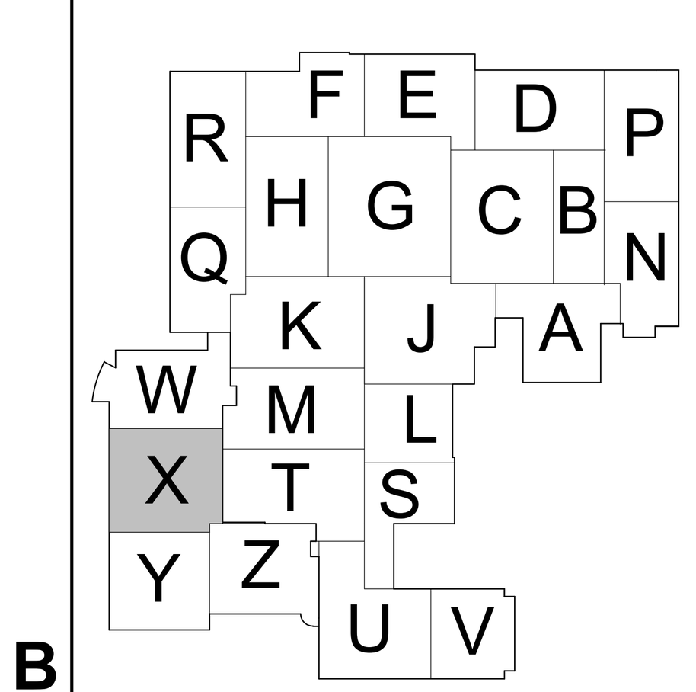
Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED No. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



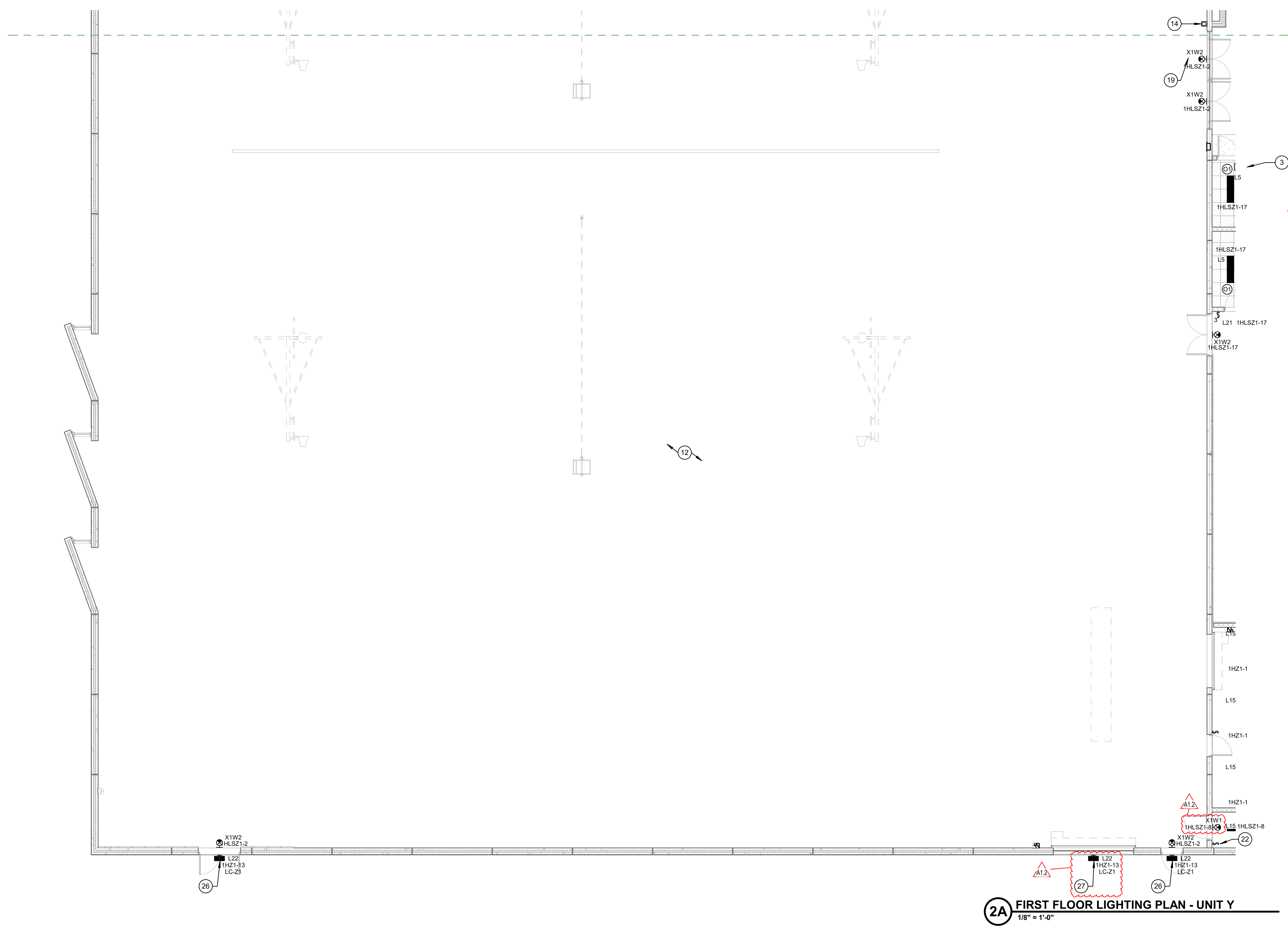
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR LIGHTING PLAN - UNIT X

EL1X1.2



2A FIRST FLOOR LIGHTING PLAN - UNIT Y
1/8" = 1'-0"

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES

#	NOTES
1	CONNECT NEW NORMAL AND/OR EMERGENCY LIGHT FIXTURES TO EXISTING NORMAL AND EMERGENCY CIRCUIT(S) SERVING THIS ROOM/AREA. MODIFY CIRCUITING AS REQUIRED FOR NEW LIGHTING CONTROLS.
2	ONE-FOR-ONE LIGHT FIXTURE REPLACEMENT. CONNECT NEW LIGHT FIXTURE TO CIRCUIT THAT WAS MAINTAINED DURING DEMOLITION. MODIFY CIRCUITING AS REQUIRED FOR EMERGENCY LIGHTING CHANGES AND/OR NEW LIGHTING CONTROLS.
3	PROVIDE UL 924 AUTOMATIC LOAD CONTROL RELAY IN OUTLET BOX FLUSH-MOUNTED IN CEILING TO ZONE CONTROL EMERGENCY LIGHTING IN THIS ROOM/SPACE. CONNECT UL 924 DEVICE TO NEW NORMAL AND EMERGENCY CIRCUITS INDICATED AT DEVICE. PROVIDE CIRCUITING AS REQUIRED FOR NEW CONTROLS. (APPLIES TO NEW ROOMS/SPACES WITH NORMAL AND EMERGENCY LIGHTING).
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6	PROVIDE UL 924 AUTOMATIC LOAD CONTROL RELAY IN OUTLET BOX FLUSH-MOUNTED IN CEILING TO ZONE CONTROL EMERGENCY LIGHTING IN THIS ROOM/SPACE. CONNECT UL 924 DEVICE TO EXISTING NORMAL AND EMERGENCY CIRCUITS IN THIS ROOM/AREA. MODIFY CIRCUITING AS REQUIRED FOR NEW CONTROLS. (APPLIES TO EXISTING ROOMS/SPACES WITH NORMAL AND EMERGENCY LIGHTING).
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8	CONTROL SECOND FLOOR FIXTURES IN THIS ROOM/AREA WITH UL 924 DEVICE LOCATED ON FIRST FLOOR.
9	CONNECT NEW FIXTURE TO EMERGENCY CIRCUIT IN THIS ROOM/AREA.
10	INSTALL DEVICE IN EXISTING SWITCH BOX.
11	DISPLAY CASES ALTERNATE: SURFACE MOUNT QUANTITY OF FIXTURES INDICATED TO INTERIOR TOP OF DISPLAY CASE. REFER TO A-SERIES FOR ADDITIONAL INFORMATION.
12	REFER TO SECOND FLOOR LIGHTING PLAN FOR FIXTURE LAYOUT AND CONTROLS FOR THIS ROOM/AREA.
13	REFER TO FIRST FLOOR LIGHTING PLAN FOR ADDITIONAL LIGHTING INFORMATION IN THIS ROOM/AREA.
14	(2) ZONE KEYPAD DIMMING STATION FOR HIGH BAY LIGHT FIXTURES IN GYM. REFER TO DASHED LINES ON SECOND FLOOR LIGHTING PLANS FOR ZONES. SEE SCHEMATICS FOR ADDITIONAL INFORMATION.
15	INSTALL FIXTURE AT +8'-2" A.F.F. TO BOTTOM.
16	INSTALL FIXTURE(S) AT +9'-0" A.F.F. TO BOTTOM OF FIXTURE(S).
17	INSTALL FIXTURE(S) AT +9'-0" A.F.F. TO BOTTOM OF FIXTURE(S). MODIFY AS REQUIRED TO COORDINATE WITH PIPING AND DUCT WORK.
18	INSTALL FIXTURE CENTERED VERTICALLY ON MULLION AT APPROXIMATELY +9'-10-5/8" TO C.L. ROUTE MC CABLE THROUGH THE MULLIONS TO FEED THE FIXTURE.
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32	INSTALL FIXTURE TYPE INDICATED IN LIGHT BOX. REFER TO A-SERIES FOR LIGHT BOX DIMENSIONS. COORDINATE ALL INSTALLATION AND FINAL CIRCUITING WITH MANUFACTURER.

A1.2

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#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

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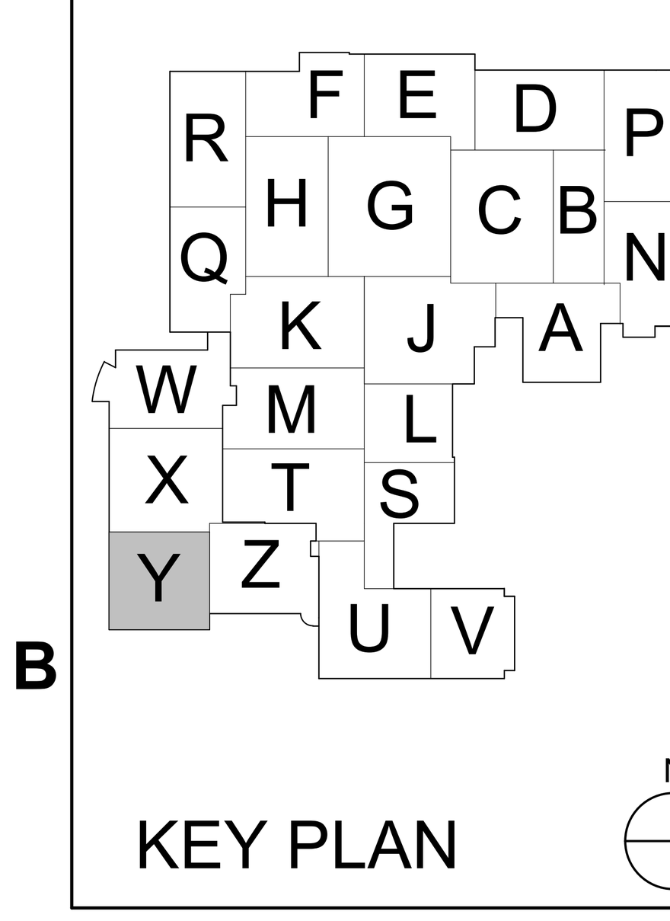

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR LIGHTING PLAN - UNIT Y

EL1Y1.2

2A FIRST FLOOR LIGHTING PLAN - UNIT Z
1/8" = 1'-0"

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES

#	NOTES
1	CONNECT NEW NORMAL AND/OR EMERGENCY LIGHT FIXTURES TO EXISTING NORMAL AND EMERGENCY CIRCUIT(S) SERVING THIS ROOM/AREA. MODIFY CIRCUITING AS REQUIRED FOR NEW LIGHTING CONTROLS.
2	ONE-FOR-ONE LIGHT FIXTURE REPLACEMENT. CONNECT NEW LIGHT FIXTURE TO CIRCUIT THAT WAS MAINTAINED DURING DEMOLITION. MODIFY CIRCUITING AS REQUIRED FOR EMERGENCY LIGHTING CHANGES AND/OR NEW LIGHTING CONTROLS.
3	PROVIDE UL 924 AUTOMATIC LOAD CONTROL RELAY IN OUTLET BOX FLUSH-MOUNTED IN CEILING TO ZONE CONTROL EMERGENCY LIGHTING IN THIS ROOM/SPACE. CONNECT UL 924 DEVICE TO NEW NORMAL AND EMERGENCY CIRCUITS INDICATED AT DEVICE. PROVIDE CIRCUITING AS REQUIRED FOR NEW CONTROLS. (APPLIES TO NEW ROOMS/SPACES WITH NORMAL AND EMERGENCY LIGHTING).
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9	CONNECT NEW FIXTURE TO EMERGENCY CIRCUIT IN THIS ROOM/AREA.
10	INSTALL DEVICE IN EXISTING SWITCH BOX.
11	DISPLAY CASES ALTERNATE: SURFACE MOUNT QUANTITY OF FIXTURES INDICATED TO INTERIOR TOP OF DISPLAY CASE. REFER TO A-SERIES FOR ADDITIONAL INFORMATION.
12	REFER TO SECOND FLOOR LIGHTING PLAN FOR FIXTURE LAYOUT AND CONTROLS FOR THIS ROOM/AREA.
13	REFER TO FIRST FLOOR LIGHTING PLAN FOR ADDITIONAL LIGHTING INFORMATION IN THIS ROOM/AREA.
14	(2) ZONE KEYPAD DIMMING STATION FOR HIGH BAY LIGHT FIXTURES IN GYM. REFER TO DASHED LINES ON SECOND FLOOR LIGHTING PLANS FOR ZONES. SEE SCHEMATICS FOR ADDITIONAL INFORMATION.
15	INSTALL FIXTURE AT +8'-2" A.F.F. TO BOTTOM.
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17	INSTALL FIXTURE(S) AT +9'-0" A.F.F. TO BOTTOM OF FIXTURE(S). MODIFY AS REQUIRED TO COORDINATE WITH PIPING AND DUCT WORK.
18	INSTALL FIXTURE CENTERED VERTICALLY ON MULLION AT APPROXIMATELY +9'-10-5/8" TO C.L. ROUTE MC CABLE THROUGH THE MULLIONS TO FEED THE FIXTURE.
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32	INSTALL FIXTURE TYPE INDICATED IN LIGHT BOX. REFER TO A-SERIES FOR LIGHT BOX DIMENSIONS. COORDINATE ALL INSTALLATION AND FINAL CIRCUITING WITH MANUFACTURER.

A1.2

SCHMIDT ASSOCIATES
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Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
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SARAH KATHLEEN HEMPSTEAD REGISTERED No. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR LIGHTING PLAN - UNIT Z

EL1Z1.2

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES

#	NOTES
1	CONNECT NEW NORMAL AND/OR EMERGENCY LIGHT FIXTURES TO EXISTING NORMAL AND EMERGENCY CIRCUIT(S) SERVING THIS ROOM/AREA. MODIFY CIRCUITING AS REQUIRED FOR NEW LIGHTING CONTROLS.
2	ONE-FOR-ONE LIGHT FIXTURE REPLACEMENT. CONNECT NEW LIGHT FIXTURE TO CIRCUIT THAT WAS MAINTAINED DURING DEMOLITION. MODIFY CIRCUITING AS REQUIRED FOR EMERGENCY LIGHTING CHANGES AND/OR NEW LIGHTING CONTROLS.
3	PROVIDE UL 924 AUTOMATIC LOAD CONTROL RELAY IN OUTLET BOX FLUSH-MOUNTED IN CEILING TO ZONE CONTROL EMERGENCY LIGHTING IN THIS ROOM/SPACE. CONNECT UL 924 DEVICE TO NEW NORMAL AND EMERGENCY CIRCUITS INDICATED AT DEVICE. PROVIDE CIRCUITING AS REQUIRED FOR NEW CONTROLS. (APPLIES TO NEW ROOMS/SPACES WITH NORMAL AND EMERGENCY LIGHTING).
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A1.2

2A **SECOND FLOOR LIGHTING PLAN - UNIT M**
1/8" = 1'-0"

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Bid Set 02
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SARAH KATHLEEN HEMPSTEAD
NO. AR10400134

Sarah K Hempstead

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SECOND FLOOR LIGHTING PLAN - UNIT M

EL1M2.2

EL1M2.2_ SECOND FLOOR LIGHTING PLAN - UNIT M
2019-067.NCH_M.S.D. of Washington Township_North Central High School Renovation_
BIM 360://2019-067.NCH - North Central High School/2019-067.NCH_Bldg001_E_2020_Cloud.rvt
1/13/2022 10:49:35 AM

GENERAL LIGHTING NOTES

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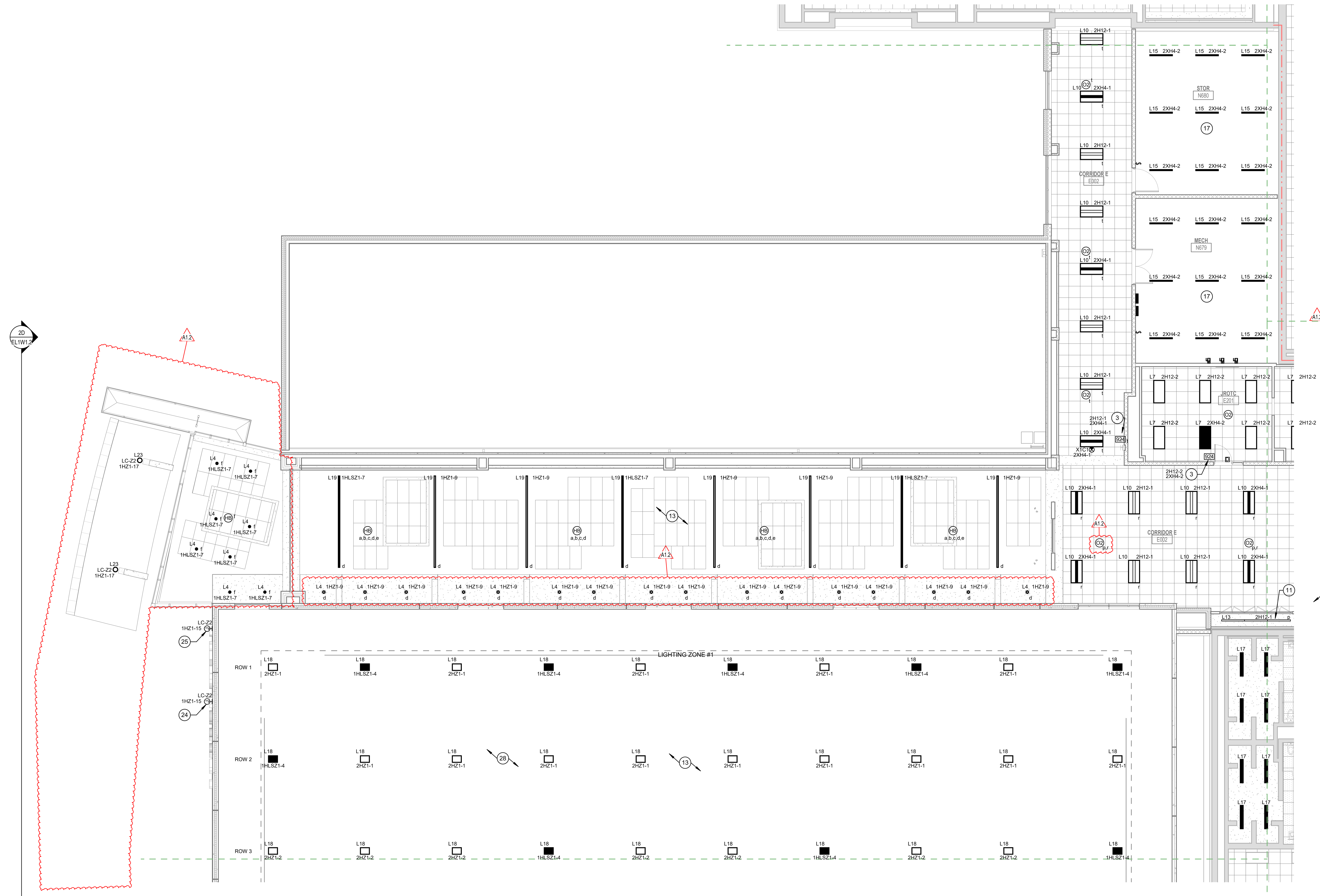
17	INSTALL FIXTURE(S) AT +9'-0" A.F.F. TO BOTTOM OF FIXTURE(S). MODIFY AS REQUIRED TO COORDINATE WITH PIPING AND DUCT WORK.
18	INSTALL FIXTURE CENTERED VERTICALLY ON MULLION AT APPROXIMATELY +9'-10-5/8" TO C.L. ROUTE MC CABLE THROUGH THE MULLIONS TO FEED THE FIXTURE.
19	INSTALL FIXTURE AT +9'-2" A.F.F. TO BOTTOM.
20	INSTALL FIXTURE AT +10'-0" A.F.F. TO BOTTOM.
21	INSTALL FIXTURE AT +11'-0" A.F.F. TO BOTTOM.
22	SWITCH CONTROLS SECOND FLOOR LIGHTING. REFER TO SECOND FLOOR LIGHTING PLANS FOR ADDITIONAL INFORMATION.
23	FIXTURES CONTROLLED BY SWITCH LOCATED ON FIRST FLOOR. REFER TO FIRST FLOOR LIGHTING PLAN FOR LOCATION.
24	CIRCUIT CONNECTION FOR EXTERIOR BUILDING SIGNAGE LOCATED AT +33'-7" A.F.F. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH A-SERIES DRAWINGS AND SIGNAGE PROVIDER.
25	(2) CIRCUIT CONNECTIONS STACKED VERTICALLY FOR EXTERIOR BUILDING SIGNAGE LOCATED AT +28-9" A.F.F AND +33'-7" A.F.F. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH A-SERIES DRAWINGS AND SIGNAGE PROVIDER.
26	INSTALL FIXTURE AT +7-9" A.F.F. TO BOTTOM.
27	INSTALL FIXTURE AT +8-9" A.F.F. TO BOTTOM.
28	INSTALL BOTTOM OF FIXTURE FLUSH WITH BOTTOM OF STRUCTURE IN THIS ROOM/AREA.
29	RELOCATED SURFACE MOUNTED TOGGLE SWITCH FOR DISPLAY CASE LIGHTING.
30	INSTALL FIXTURE SURFACE MOUNTED TO BOTTOM OF CANOPY STRUCTURE. TYPICAL FOR ALL SHOWN.
31	COORDINATE FINAL LOCATION OF FLOOR-MOUNTED LIGHTING FIXTURES WITH OWNER PROVIDED PANTHER STATUES.
32	INSTALL FIXTURE TYPE INDICATED IN LIGHT BOX. REFER TO A-SERIES FOR LIGHT BOX DIMENSIONS. COORDINATE ALL INSTALLATION AND FINAL CIRCUITING WITH MANUFACTURER.



2A SECOND FLOOR LIGHTING PLAN - UNIT W
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
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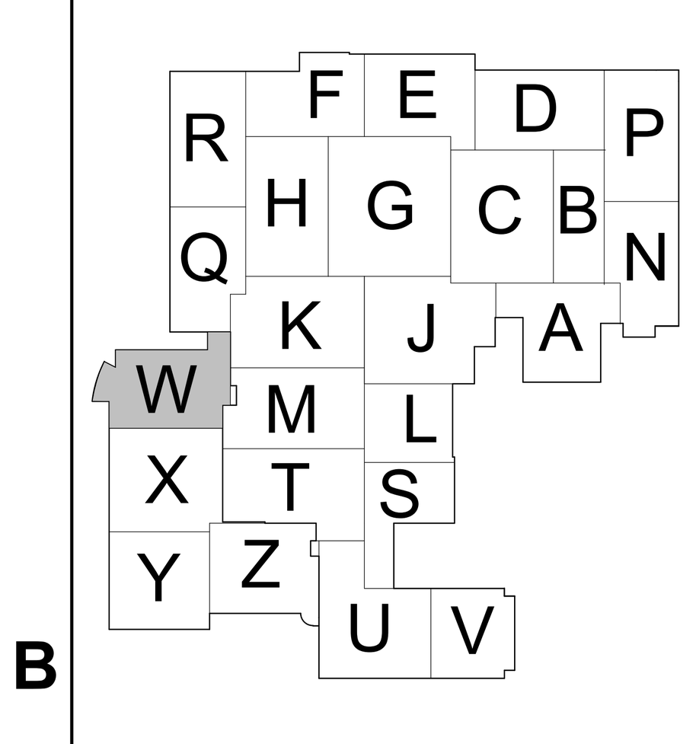
Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SECOND FLOOR LIGHTING PLAN - UNIT W

EL1W2.2

#	GENERAL LIGHTING NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

#	LIGHTING PLAN NOTES
1	CONNECT NEW NORMAL AND/OR EMERGENCY LIGHT FIXTURES TO EXISTING NORMAL AND EMERGENCY CIRCUIT(S) SERVING THIS ROOM/AREA. MODIFY CIRCUITING AS REQUIRED FOR NEW LIGHTING CONTROLS.
2	ONE-FOR-ONE LIGHT FIXTURE REPLACEMENT. CONNECT NEW LIGHT FIXTURE TO CIRCUIT THAT WAS MAINTAINED DURING DEMOLITION. MODIFY CIRCUITING AS REQUIRED FOR EMERGENCY LIGHTING CHANGES AND/OR NEW LIGHTING CONTROLS.
3	PROVIDE UL 924 AUTOMATIC LOAD CONTROL RELAY IN OUTLET BOX FLUSH-MOUNTED IN CEILING TO ZONE CONTROL EMERGENCY LIGHTING IN THIS ROOM/SPACE. CONNECT UL 924 DEVICE TO NEW NORMAL AND EMERGENCY CIRCUITS INDICATED AT DEVICE. PROVIDE CIRCUITING AS REQUIRED FOR NEW CONTROLS. (APPLIES TO NEW ROOMS/SPACES WITH NORMAL AND EMERGENCY LIGHTING).
4	PROVIDE UL 924 AUTOMATIC LOAD CONTROL RELAY IN EXPOSED OUTLET BOX TO ZONE CONTROL EMERGENCY LIGHTING IN THIS ROOM/SPACE. CONNECT UL 924 DEVICE TO NEW NORMAL AND EMERGENCY CIRCUITS INDICATED AT DEVICE. PROVIDE CIRCUITING AS REQUIRED FOR NEW CONTROLS. (APPLIES TO NEW ROOMS/SPACES WITH NORMAL AND EMERGENCY LIGHTING).
5	PROVIDE UL 924 AUTOMATIC LOAD CONTROL RELAY IN OUTLET BOX FLUSH-MOUNTED IN CEILING TO ZONE CONTROL EMERGENCY LIGHTING IN THIS ROOM/SPACE. CONNECT UL 924 DEVICE TO NEW NORMAL TO ADJACENT ROOM/SPACE AND EMERGENCY CIRCUITS INDICATED AT DEVICE. PROVIDE CIRCUITING AS REQUIRED FOR CONTROLS. (APPLIES TO NEW ROOM/SPACE WITH ONLY EMERGENCY LIGHTING).
6	PROVIDE UL 924 AUTOMATIC LOAD CONTROL RELAY IN OUTLET BOX FLUSH-MOUNTED IN CEILING TO ZONE CONTROL EMERGENCY LIGHTING IN THIS ROOM/SPACE. CONNECT UL 924 DEVICE TO EXISTING NORMAL AND EMERGENCY CIRCUITS IN THIS ROOM/AREA. MODIFY CIRCUITING AS REQUIRED FOR NEW CONTROLS. (APPLIES TO EXISTING ROOMS/SPACES WITH NORMAL AND EMERGENCY LIGHTING).
7	PROVIDE UL 924 AUTOMATIC LOAD CONTROL RELAY IN OUTLET BOX FLUSH-MOUNTED IN CEILING TO ZONE CONTROL EMERGENCY LIGHTING IN THIS ROOM/SPACE. CONNECT UL 924 DEVICE TO EXISTING NORMAL IN ADJACENT ROOM/SPACE AND EMERGENCY CIRCUIT IN THIS ROOM/SPACE. MODIFY CIRCUITING AS REQUIRED FOR NEW CONTROLS. (APPLIES TO EXISTING ROOM/SPACE WITH ONLY EMERGENCY LIGHTING).
8	CONTROL SECOND FLOOR FIXTURES IN THIS ROOM/AREA WITH UL 924 DEVICE LOCATED ON FIRST FLOOR.
9	CONNECT NEW FIXTURE TO EMERGENCY CIRCUIT IN THIS ROOM/AREA.
10	INSTALL DEVICE IN EXISTING SWITCH BOX.
11	DISPLAY CASES ALTERNATE: SURFACE MOUNT QUANTITY OF FIXTURES INDICATED TO INTERIOR TOP OF DISPLAY CASE. REFER TO A-SERIES FOR ADDITIONAL INFORMATION.
12	REFER TO SECOND FLOOR LIGHTING PLAN FOR FIXTURE LAYOUT AND CONTROLS FOR THIS ROOM/AREA.
13	REFER TO FIRST FLOOR LIGHTING PLAN FOR ADDITIONAL LIGHTING INFORMATION IN THIS ROOM/AREA.
14	(2) ZONE KEYPAD DIMMING STATION FOR HIGH BAY LIGHT FIXTURES IN GYM. REFER TO DASHED LINES ON SECOND FLOOR LIGHTING PLANS FOR ZONES. SEE SCHEMATICS FOR ADDITIONAL INFORMATION.
15	INSTALL FIXTURE AT +8'-2" A.F.F. TO BOTTOM.
16	INSTALL FIXTURE(S) AT +9'-0" A.F.F. TO BOTTOM OF FIXTURE(S).
17	INSTALL FIXTURE(S) AT +9'-0" A.F.F. TO BOTTOM OF FIXTURE(S). MODIFY AS REQUIRED TO COORDINATE WITH PIPING AND DUCT WORK.
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24	CIRCUIT CONNECTION FOR EXTERIOR BUILDING SIGNAGE LOCATED AT +33'-7" A.F.F. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH A-SERIES DRAWINGS AND SIGNAGE PROVIDER.
25	(2) CIRCUIT CONNECTIONS STACKED VERTICALLY FOR EXTERIOR BUILDING SIGNAGE LOCATED AT +28-9" A.F.F AND +33'-7" A.F.F. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH A-SERIES DRAWINGS AND SIGNAGE PROVIDER.
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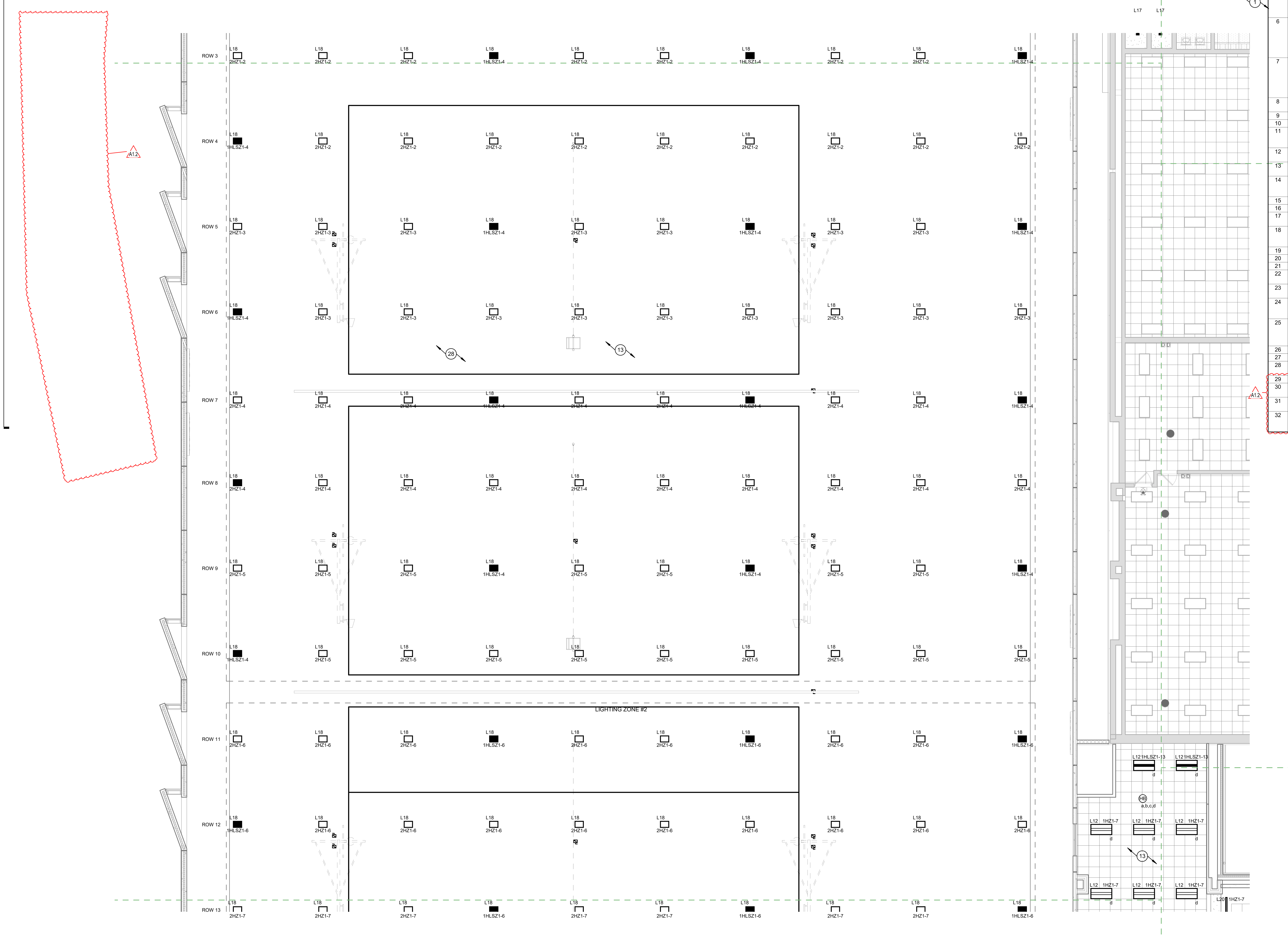
32	INSTALL FIXTURE TYPE INDICATED IN LIGHT BOX. REFER TO A-SERIES FOR LIGHT BOX DIMENSIONS. COORDINATE ALL INSTALLATION AND FINAL CIRCUITING WITH MANUFACTURER.



2A SECOND FLOOR LIGHTING PLAN - UNIT X
1/8" = 1'-0"

SCHMIDT ASSOCIATES
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Project No. 2019-067.NCH
Project Date 12.06.2021
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
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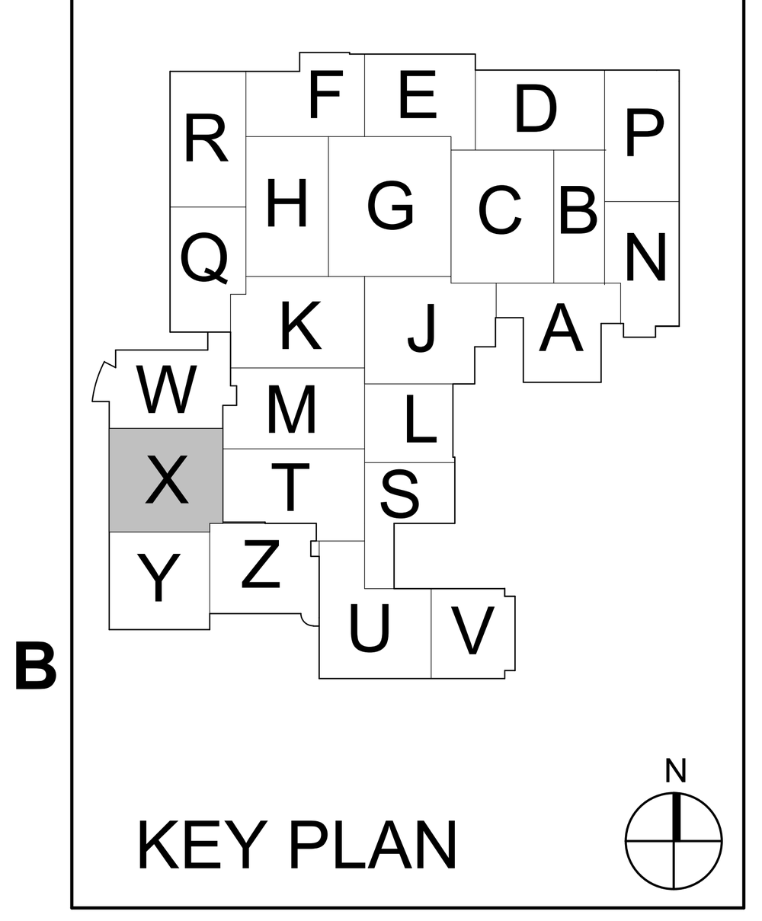

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SECOND FLOOR LIGHTING PLAN - UNIT X

EL1X2.2

GENERAL LIGHTING NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

LIGHTING PLAN NOTES

#	NOTES
1	CONNECT NEW NORMAL AND/OR EMERGENCY LIGHT FIXTURES TO EXISTING NORMAL AND EMERGENCY CIRCUIT(S) SERVING THIS ROOM/AREA. MODIFY CIRCUITING AS REQUIRED FOR NEW LIGHTING CONTROLS.
2	ONE-FOR-ONE LIGHT FIXTURE REPLACEMENT. CONNECT NEW LIGHT FIXTURE TO CIRCUIT THAT WAS MAINTAINED DURING DEMOLITION. MODIFY CIRCUITING AS REQUIRED FOR EMERGENCY LIGHTING CHANGES AND/OR NEW LIGHTING CONTROLS.
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10	INSTALL DEVICE IN EXISTING SWITCH BOX.
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14	(2) ZONE KEYPAD DIMMING STATION FOR HIGH BAY LIGHT FIXTURES IN GYM. REFER TO DASHED LINES ON SECOND FLOOR LIGHTING PLANS FOR ZONES. SEE SCHEMATICS FOR ADDITIONAL INFORMATION.
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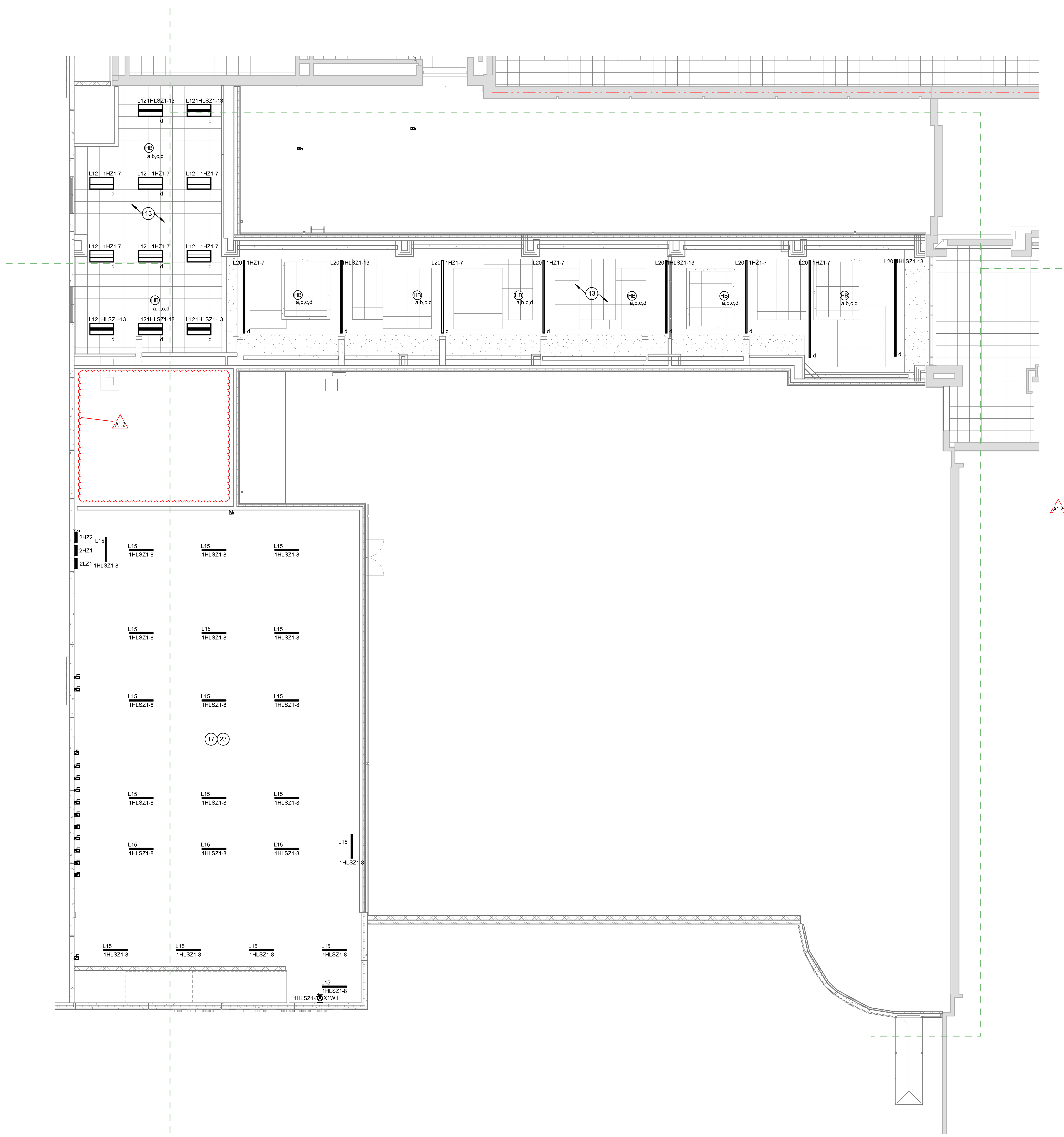
30	INSTALL FIXTURE SURFACE MOUNTED TO BOTTOM OF CANOPY STRUCTURE. TYPICAL FOR ALL SHOWN.
31	COORDINATE FINAL LOCATION OF FLOOR-MOUNTED LIGHTING FIXTURES WITH OWNER PROVIDED PANTHER STATUES.
32	INSTALL FIXTURE TYPE INDICATED IN LIGHT BOX. REFER TO A-SERIES FOR LIGHT BOX DIMENSIONS. COORDINATE ALL INSTALLATION AND FINAL CIRCUITING WITH MANUFACTURER.

A1.2



2A SECOND FLOOR LIGHTING PLAN - UNIT Z
1/8" = 1'-0"

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
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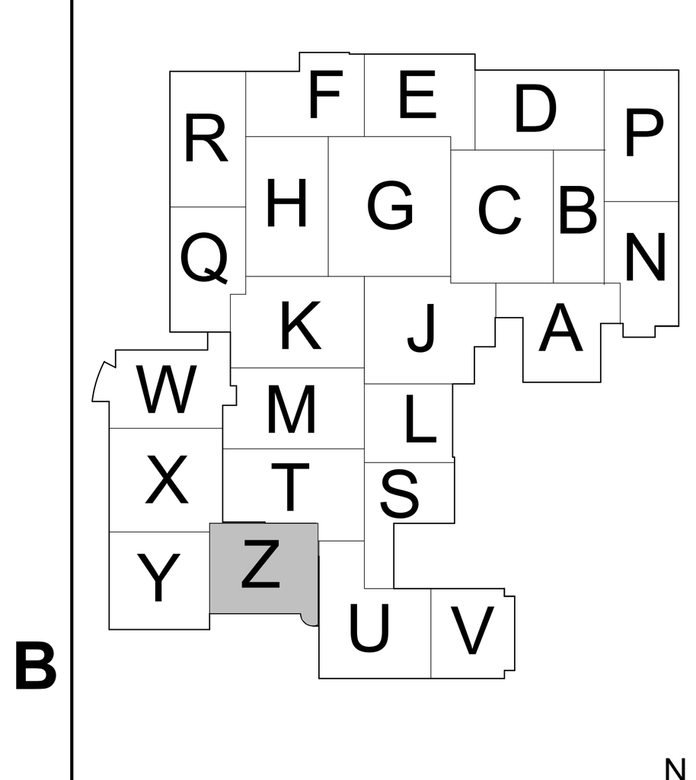


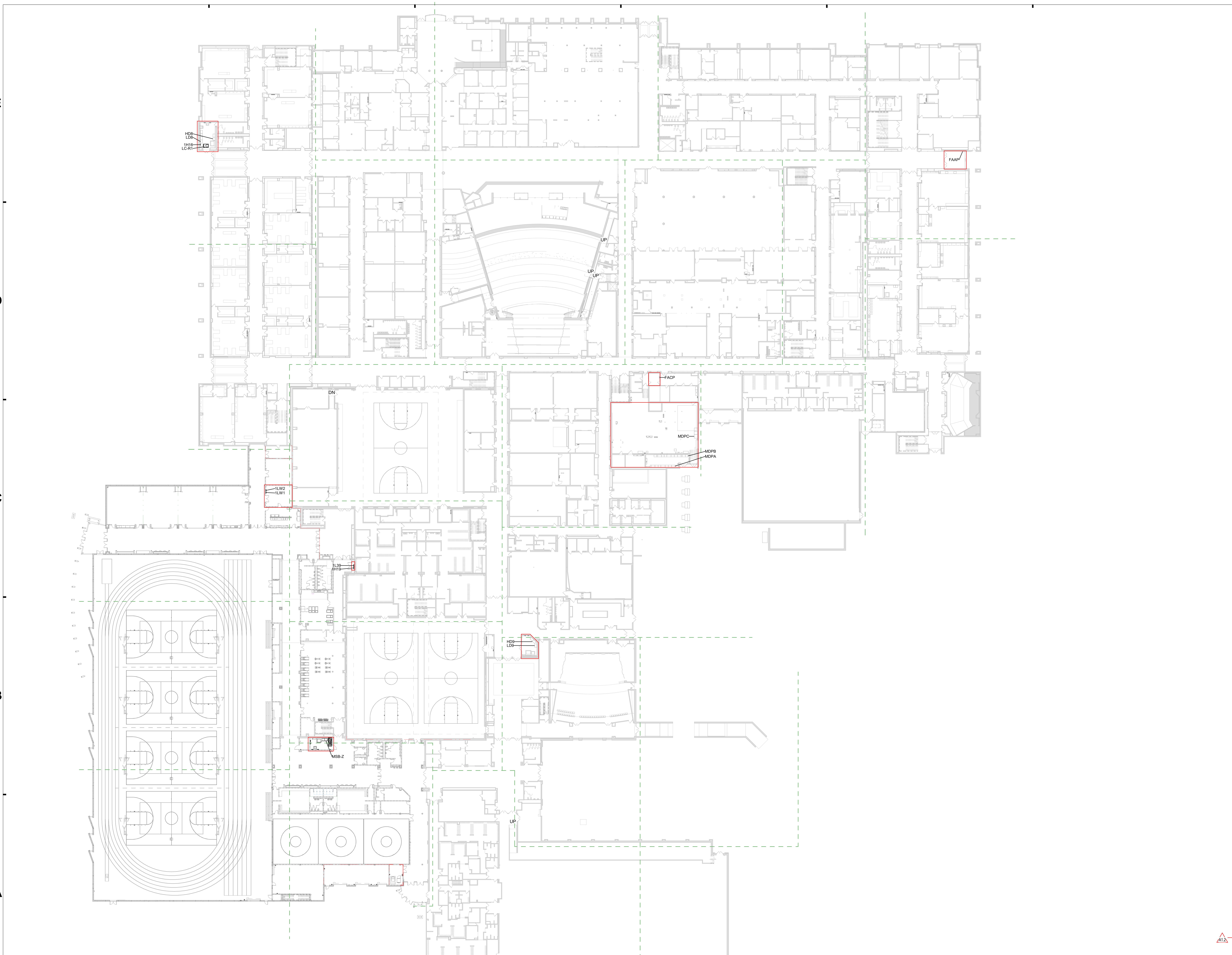
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SECOND FLOOR LIGHTING PLAN - UNIT Z

EL1Z2.2



2A OVERALL FIRST FLOOR POWER PLAN
1/32" = 1'-0"

SCHMIDT
ASSOCIATES
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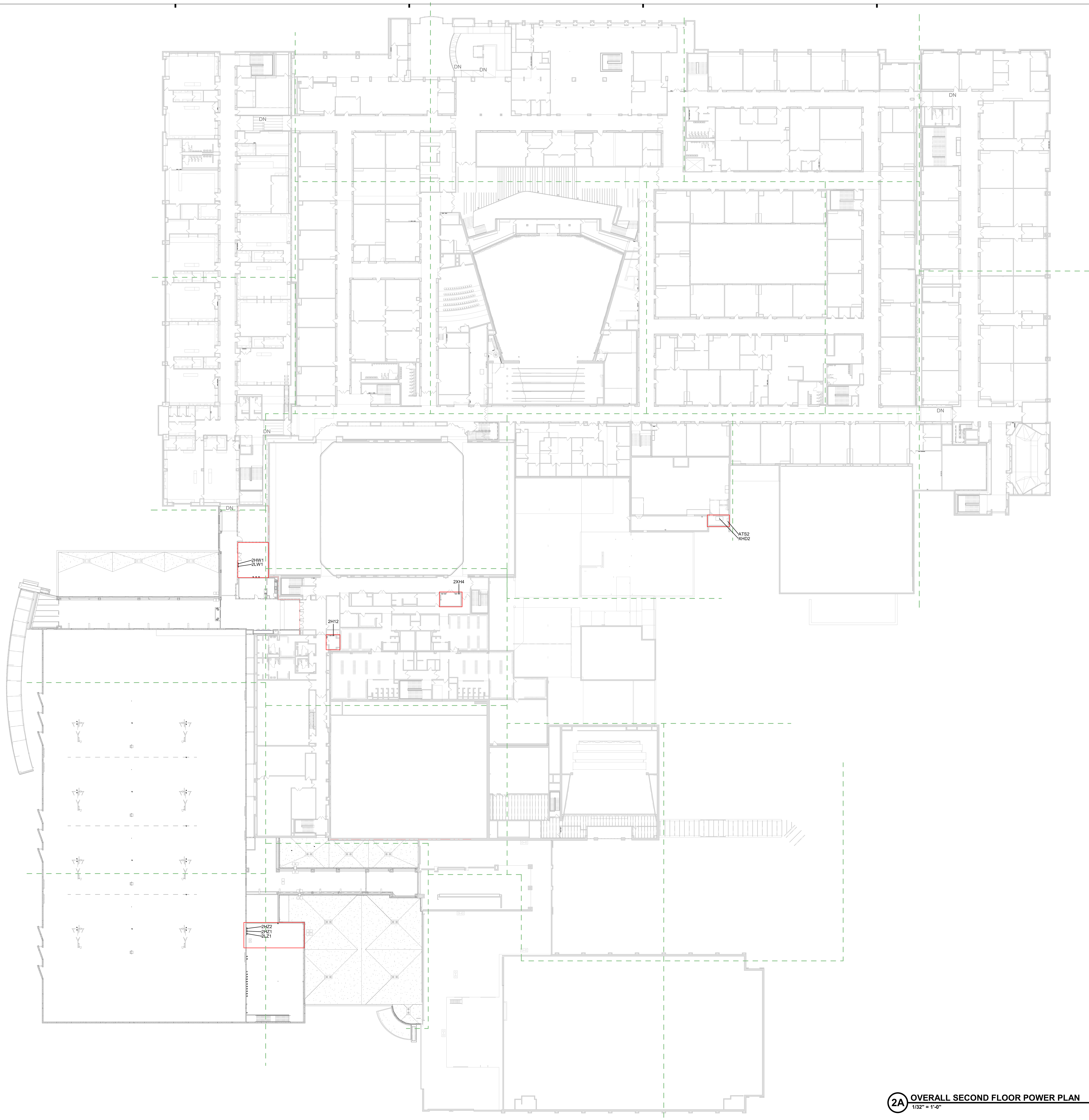
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

OVERALL FIRST FLOOR POWER PLAN

EP101.2



2A OVERALL SECOND FLOOR POWER PLAN
1/32" = 1'-0"

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KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

A1.2

OVERALL SECOND FLOOR POWER PLAN

EP102.2

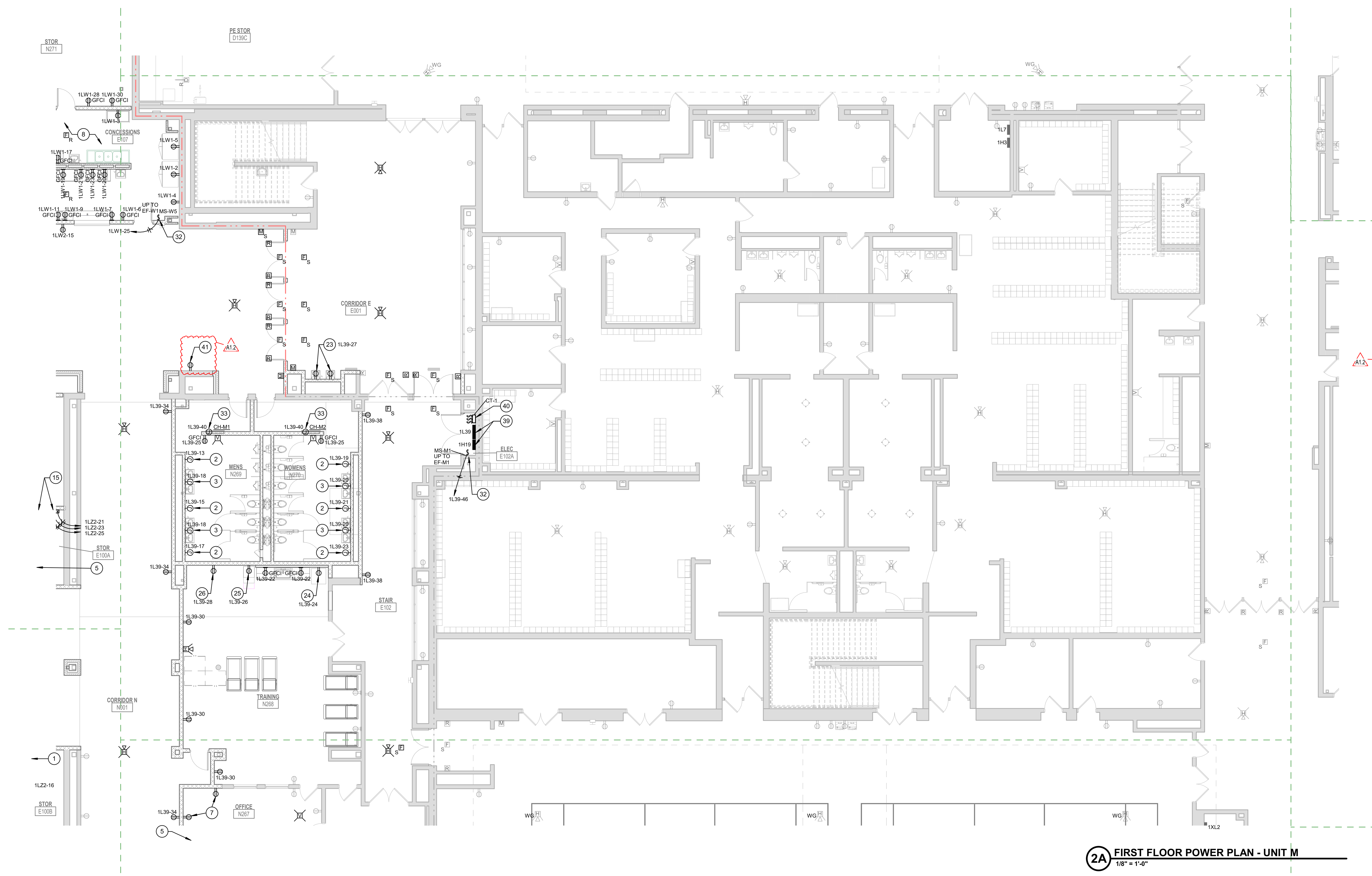
GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

POWER PLAN NOTES

#	NOTES
1	INSTALL OVERHEAD DOOR DISCONNECT AT MOTOR. PROVIDE WIRING TO CONTROLLER. COORDINATE EXACT REQUIRMENTS WITH MANUFACTURER'S RECOMMENDATIONS.
2	CIRCUIT CONNECTION FOR HAND DRYER. COORDINATE MOUNTING HEIGHT WITH A-SERIES DRAWINGS. CIRCUIT PROTECTED BY GFCI BREAKER.
3	PLUMBING SENSOR ALTERNATE BID: CIRCUIT CONNECTION LOCATED ABOVE CEILING FOR SENSOR(S) TRANSFORMER(S). PROVIDE QUANTITY OF JUNCTION BOXES REQUIRED CONNECTED TO CIRCUIT INDICATED. CONNECT COMPLETE TO CIRCUIT INDICATED. REFER TO SCHEMATIC DIAGRAMS FOR ADDITIONAL INFORMATION. COORDINATE WITH P-SERIES DRAWINGS.
4	NEMA L6-20 RECEPTACLE FOR TELECOMMUNICATIONS RACK.
5	QUADRAPLEX RECEPTACLE FOR A/V RACK. COORDINATE LOCATION AND ELEVATION WITH T-SERIES DRAWINGS.
6	RECEPTACLE FOR ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION WITH ACCESS CONTROL CONTRACTOR.
7	CONNECT RECEPTACLES INDICATED TO EXISTING CIRCUIT SERVING ROOM.
8	INSTALL ALL RECEPTACLES IN CONCESSIONS AT +46" A.F.F. TO C.L. UNLESS LOCATED ABOVE COUNTERTOP OR INDICATED OTHERWISE.
9	DISPLAY CASES ALTERNATE: RECEPTACLE LOCATED AT +46" A.F.F. TO C.L. IN DISPLAY CASE.
10	RECEPTACLE AND CONTROLS OUTLET LOCATED AT 25'-9" A.F.F. TO C.L. FOR SCOREBOARD. INSTALL CONTROL WIRING IN 1"C DOWN WALL, UNDER SLAB, TO FLOOR BOX INDICATED. VERIFY MOUNTING HEIGHT WITH A-SERIES AND MANUFACTURER RECOMMENDATION.
11	DISCONNECT SWITCH FOR BASKETBALL GOAL ELECTRIC HEIGHT ADJUSTER. CONNECT COMPLETE TO GYM HOIST CONTROL SYSTEM RELAY PANEL AND MOTOR WITH F40 BRANCH CIRCUIT. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
12	DISCONNECT SWITCH FOR BASKETBALL GOAL ELECTRIC HOIST. CONNECT COMPLETE TO GYM HOIST CONTROL SYSTEM RELAY PANEL AND MOTOR WITH F40 BRANCH CIRCUIT. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
13	DISCONNECT SWITCH FOR GYM CURTAIN DIVIDER. CONNECT COMPLETE TO GYM HOIST CONTROL SYSTEM RELAY PANEL AND MOTOR. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
14	DISCONNECT SWITCH FOR VOLLEYBALL NET ELECTRIC HOIST. CONNECT COMPLETE TO GYM HOIST CONTROL SYSTEM RELAY PANEL AND MOTOR. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
15	RELAY PANEL FOR GYM HOIST CONTROL SYSTEM. REFER TO WIRING SCHEMATIC FOR ADDITIONAL INFORMATION. CONNECT TO CIRUITS INDICATED. PROVIDE ALL CONTROL WIRING AS REQUIRED BETWEEN ALL HOISTS AS REQUIRED TO PREVENT COLLISION DAMAGE BETWEEN THE EQUIPMENT.
16	KEY PAD FOR HOIST CONTROL SYSTEM. INSTALL KEYPAD IN A RECESSED 12"W X 12"H X 6"D BOX. REFER TO WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
17	DISCONNECT SWITCH FOR WRESTLING MAT ELECTRIC HOIST. CONNECT COMPLETE TO WRESTLING MAT HOIST SYSTEM CONTROL, MOTOR AND CONTROLS. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
18	KEYED SWITCH PROVIDED BY MANUFACTURER FOR WRESTLING MAT ELECTRIC HOIST. CONNECT COMPLETE TO WRESTLING MAT HOIST SYSTEM CONTROL.
19	4" HIGH HOUSEKEEPING PAD EXTENDED 6" BEYOND EQUIPMENT, UNLESS SHOWN OTHERWISE.
20	CIRCUIT CONNECTION FOR MOTORIZED PROJECTOR SCREEN.
21	CONTROL SWITCH PROVIDED BY MANUFACTURER FOR MOTORIZED PROJECTOR SCREEN LOCATED AT +46" A.F.F. TO C.L. CONNECT COMPLETE TO SCREEN MOTOR.
22	RECEPTACLE FOR BEVERAGE COOLER.
23	RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT PROTECTED BY GFCI BREAKER.
24	RECEPTACLE FOR REFRIGERATOR AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
25	RECEPTACLE FOR ICE MACHINE AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
26	RECEPTACLE FOR WHIRLPOOL AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
27	RECEPTACLE FOR TREADMILL AT +18" A.F.F. TO C.L.
28	DISCONNECT SWITCH FOR SPLIT SYSTEM FAN COIL UNIT. REFER TO ROOF PLANS FOR LOCATION OF CORRESPONDING CONDENSING UNIT AND CIRCUIT NUMBER.
29	DISCONNECT SWITCH FOR SPLIT SYSTEM FAN COIL UNIT. REFER TO ROOF PLANS FOR LOCATION OF CORRESPONDING CONDENSING UNIT.
30	RECEPTACLE FOR GRAPHIC DISPLAY. COORDINATE ALL REQUIREMENTS, MOUNTING HEIGHTS, ETC. WITH OWNER.
31	DISCONNECT SWITCH FOR LAUNDRY EQUIPMENT. VERIFY SIZE AND FINAL LOCATION PER OWNER SELECTED EQUIPMENT. CONNECT COMPLETE TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
32	CONNECT COMPLETE TO EQUIPMENT INDICATED. FEED WITH SAME SIZE CONDUCTORS/CONDUIT AS FEED TO CONTROLLER.
33	CONNECT COMPLETE TO MANUFACTURER PROVIDED DISCONNECT SWITCH.
34	DISCONNECT SWITCH FOR UNIT HEATER. CONNECT COMPLETE TO UNIT HEATER.
35	CONNECT TO A SPARE 20A-1P CIRCUIT BREAKER IN THE PANELBOARD INDICATED.
36	CIRCUIT CONNECTION FOR TEMPERATURE CONTROL PANEL. CONNECT COMPLETE TO CIRCUIT INDICATED.
37	RECEPTACLE FOR PROJECTOR IN CEILING. COORDINATE WITH T-SERIES DRAWINGS.
38	MAIN ELECTRICAL GROUNDING BUSBAR.
39	REPLACE AND RELOCATE EXISTING PANELBOARDS TO NEW LOCATIONS INDICATED. REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.
40	NEW LOCATION FOR RELAY PANEL AND MOTOR CONTROLLER TOGGLE SWITCHES. EXTEND EXISTING BRANCH CIRCUITS TO NEW LOCATION INDICATED.
41	NEW REPLACEMENT RECEPTACLE IN EXISTING LOCATION.
42	GROUND ROD LOCATED IN TEST WELL. REFER TO DETAILS.

A1.2



FIRE ALARM SYSTEM:

FIRE ALARM SYSTEM IS EXISTING TO REMAIN. REUSE ALL DEVICES DEMOLISHED IN THIS PHASE WHERE POSSIBLE. TURN OVER ALL UNUSED DEVICES TO THE OWNER. PROVIDE NEW FIRE ALARM DEVICES AS REQUIRED WHEN THE QUANTITY OF DEMOLISHED DEVICES IS NOT SUFFICIENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TRACK THE FIRE ALARM DEVICE QUANTITIES.

2A FIRST FLOOR POWER PLAN - UNIT M
1/8" = 1'-0"

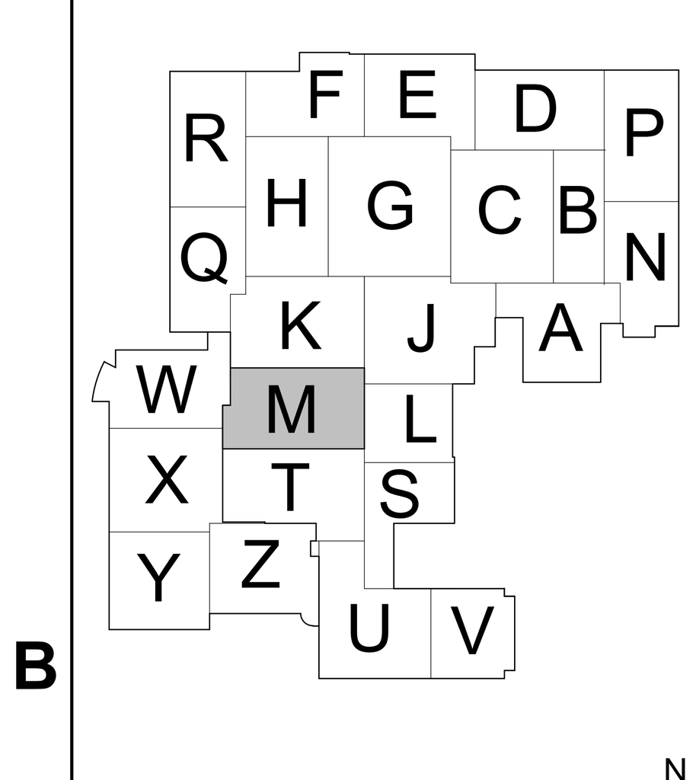
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR POWER PLAN - UNIT M

EP1M1.2

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

POWER PLAN NOTES

#	NOTES
1	INSTALL OVERHEAD DOOR DISCONNECT AT MOTOR. PROVIDE WIRING TO CONTROLLER. COORDINATE EXACT REQUIRMENTS WITH MANUFACTURER'S RECOMMENDATIONS.
2	CIRCUIT CONNECTION FOR HAND DRYER. COORDINATE MOUNTING HEIGHT WITH A-SERIES DRAWINGS. CIRCUIT PROTECTED BY GFCI BREAKER.
3	PLUMBING SENSOR ALTERNATE BID: CIRCUIT CONNECTION LOCATED ABOVE CEILING FOR SENSOR(S) TRANSFORMER(S). PROVIDE QUANTITY OF JUNCTION BOXES REQUIRED CONNECTED TO CIRCUIT INDICATED. CONNECT COMPLETE TO CIRCUIT INDICATED. REFER TO SCHEMATIC DIAGRAMS FOR ADDITIONAL INFORMATION. COORDINATE WITH P-SERIES DRAWINGS.
4	NEMA L6-20 RECEPTACLE FOR TELECOMMUNICATIONS RACK.
5	QUADRAPLEX RECEPTACLE FOR A/V RACK. COORDINATE LOCATION AND ELEVATION WITH T-SERIES DRAWINGS.
6	RECEPTACLE FOR ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION WITH ACCESS CONTROL CONTRACTOR.
7	CONNECT RECEPTACLES INDICATED TO EXISTING CIRCUIT SERVING ROOM.
8	INSTALL ALL RECEPTACLES IN CONCESSIONS AT +46" A.F.F. TO C.L. UNLESS LOCATED ABOVE COUNTERTOP OR INDICATED OTHERWISE.
9	DISPLAY CASES ALTERNATE: RECEPTACLE LOCATED AT +46" A.F.F. TO C.L. IN DISPLAY CASE.
10	RECEPTACLE AND CONTROLS OUTLET LOCATED AT 25'-9" A.F.F. TO C.L. FOR SCOREBOARD. INSTALL CONTROL WIRING IN 1"C DOWN WALL, UNDER SLAB, TO FLOOR BOX INDICATED. VERIFY MOUNTING HEIGHT WITH A-SERIES AND MANUFACTURER RECOMMENDATION.
11	DISCONNECT SWITCH FOR BASKETBALL GOAL ELECTRIC HEIGHT ADJUSTER. CONNECT COMPLETE TO GYM HOIST CONTROL SYSTEM RELAY PANEL AND MOTOR WITH F40 BRANCH CIRCUIT. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
12	DISCONNECT SWITCH FOR BASKETBALL GOAL ELECTRIC HOIST. CONNECT COMPLETE TO GYM HOIST CONTROL SYSTEM RELAY PANEL AND MOTOR WITH F40 BRANCH CIRCUIT. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
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16	KEY PAD FOR HOIST CONTROL SYSTEM. INSTALL KEYPAD IN A RECESSED 12"W X 12"H X 6"D BOX. REFER TO WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
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18	KEYED SWITCH PROVIDED BY MANUFACTURER FOR WRESTLING MAT ELECTRIC HOIST. CONNECT COMPLETE TO WRESTLING MAT HOIST SYSTEM CONTROL.
19	4" HIGH HOUSEKEEPING PAD EXTENDED 6" BEYOND EQUIPMENT, UNLESS SHOWN OTHERWISE.
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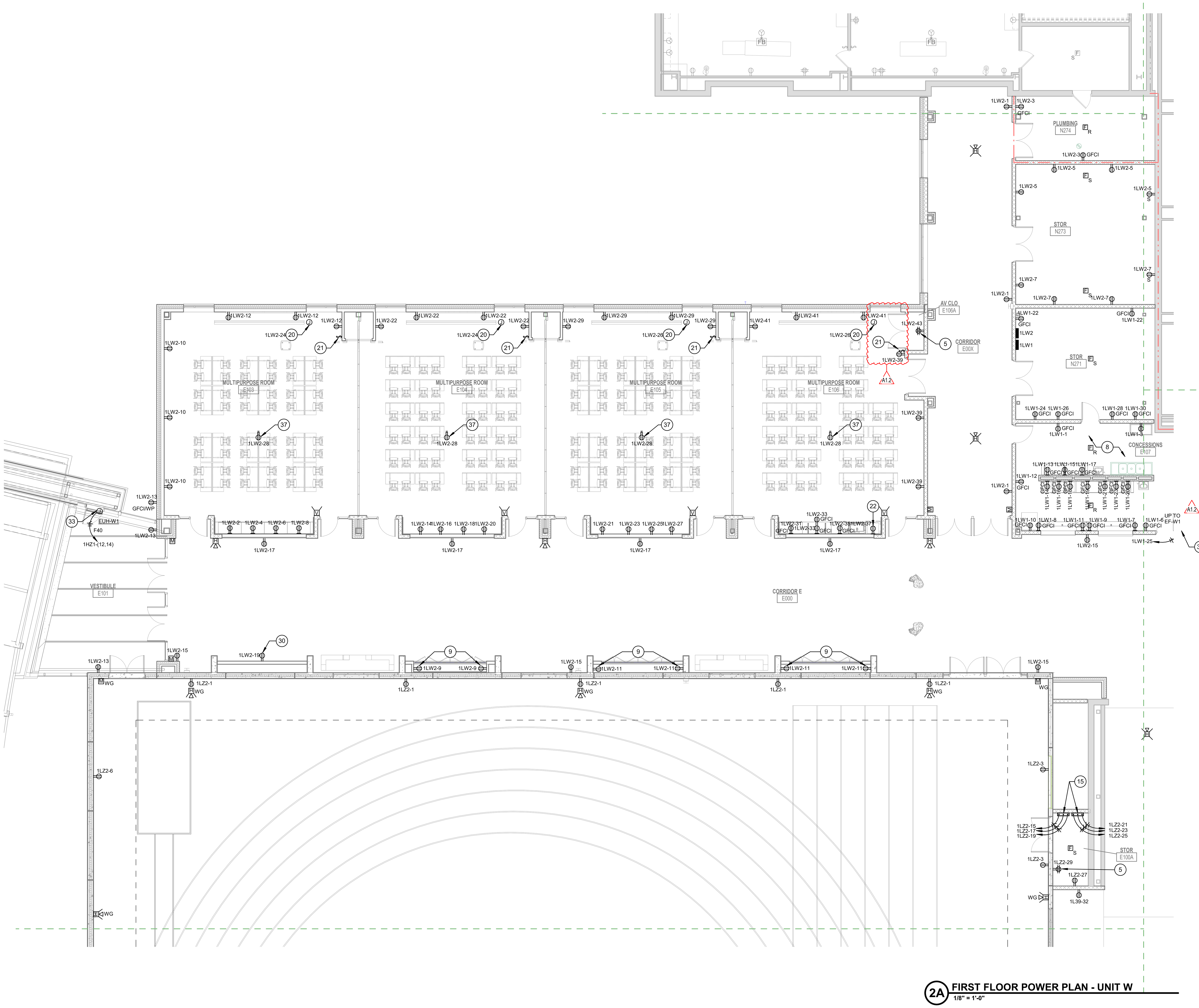
A1.2



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2A FIRST FLOOR POWER PLAN - UNIT W

1/8" = 1'-0"

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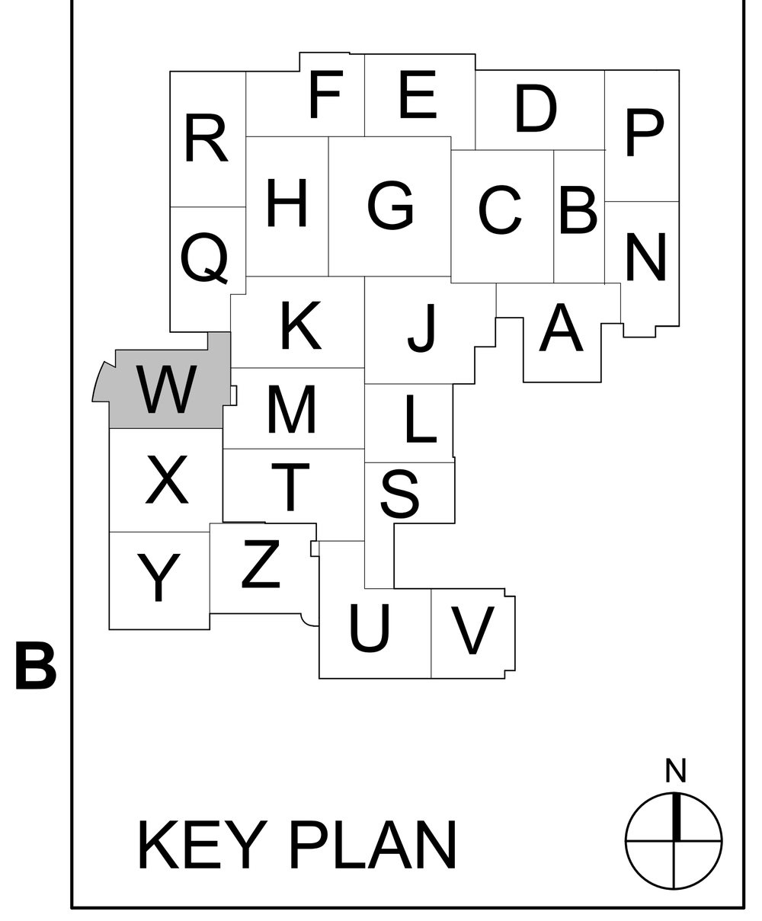


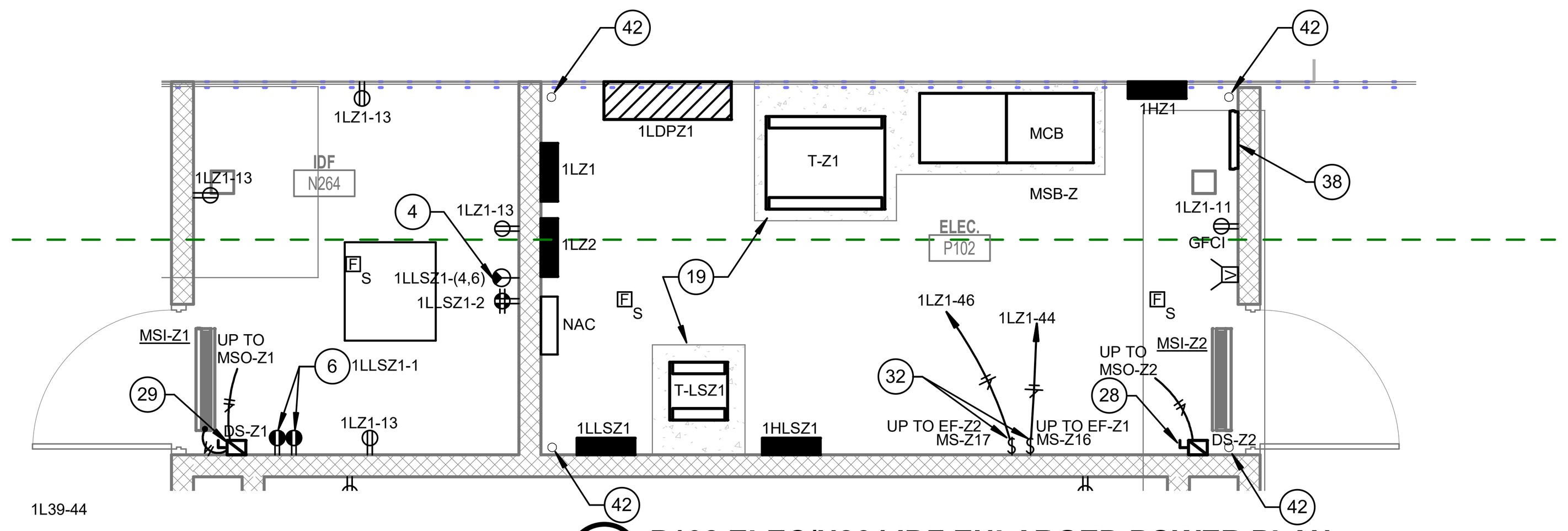
KEY PLAN

M.S.D. of Washington Township

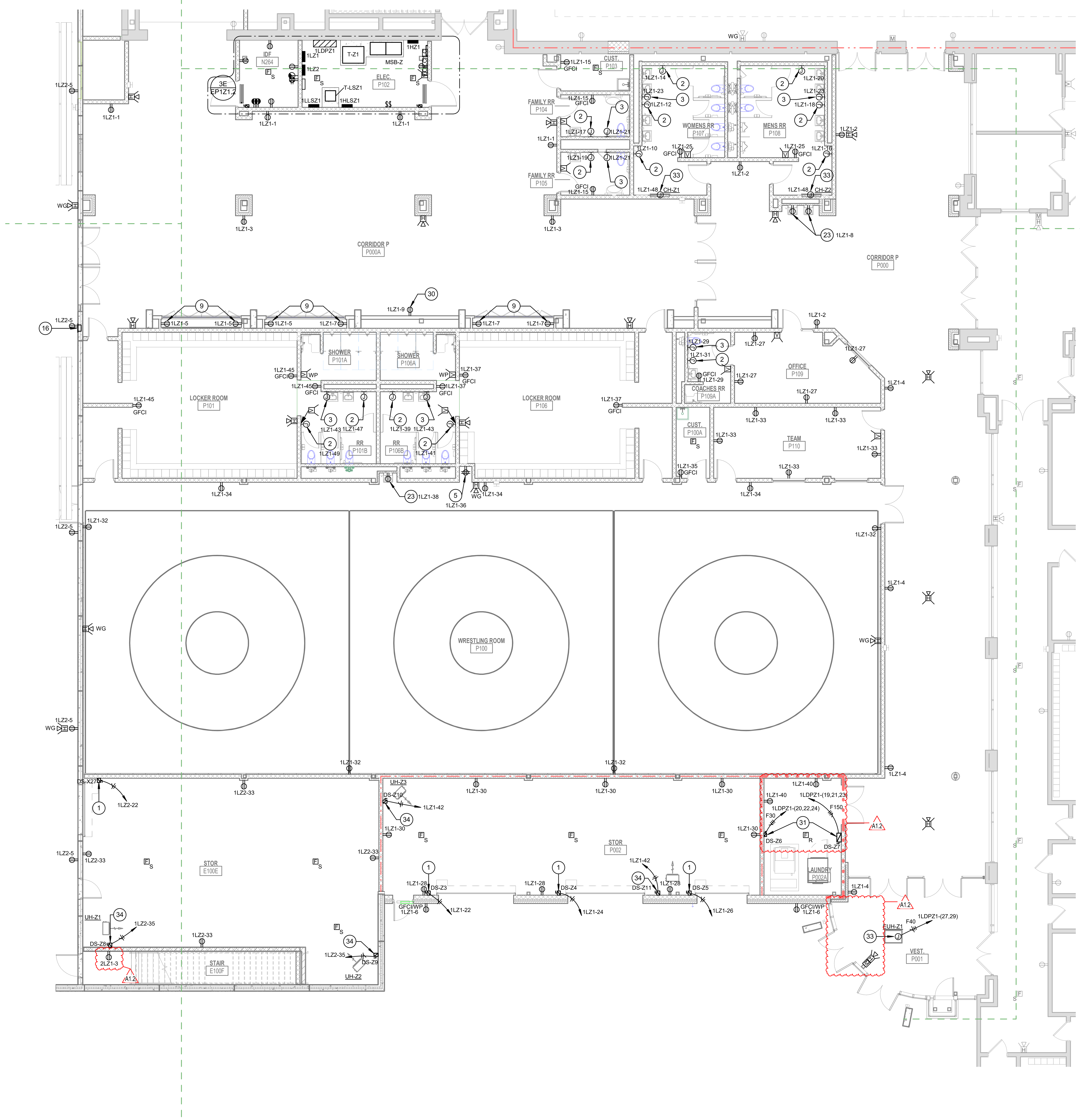
North Central High School Renovation - West Gym Addition

FIRST FLOOR POWER PLAN - UNIT W

EP1W1.2



3E P102 ELEC/N264 IDF ENLARGED POWER PLAN
1/4" = 1'-0"



2A FIRST FLOOR POWER PLAN - UNIT Z
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A1.2

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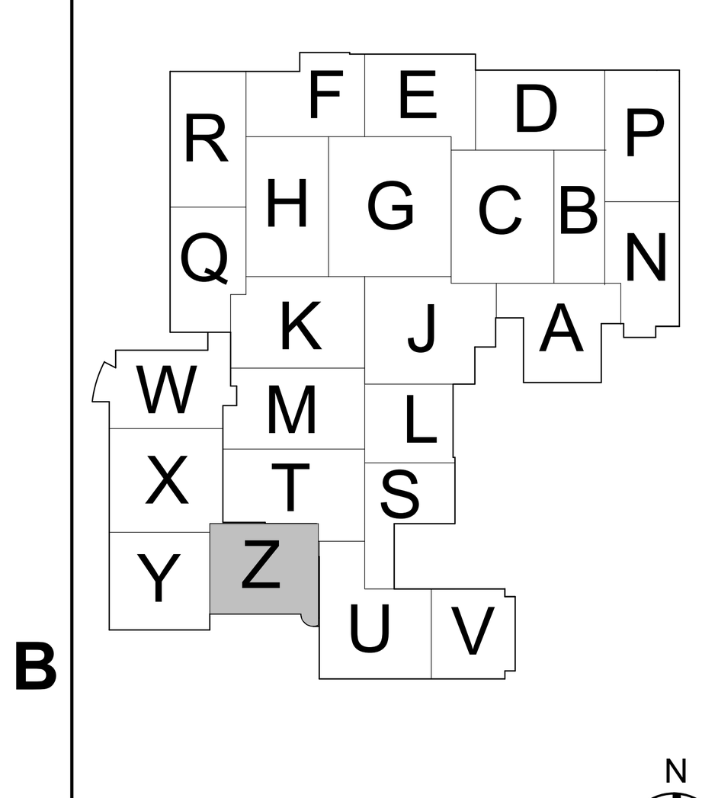

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR POWER PLAN - UNIT Z

EP1Z1.2

GENERAL POWER NOTES

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POWER PLAN NOTES

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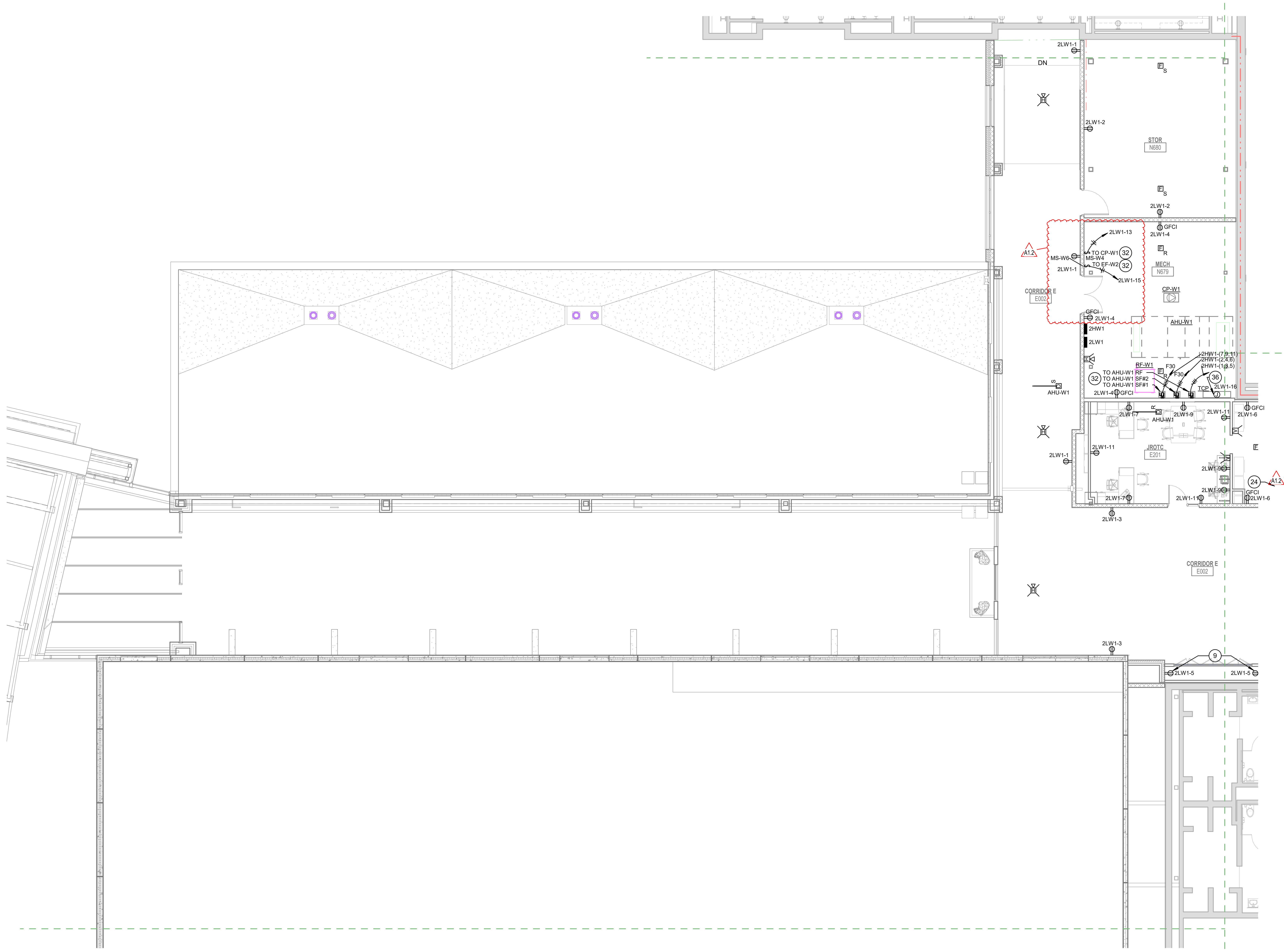

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2A SECOND FLOOR POWER PLAN - UNIT W
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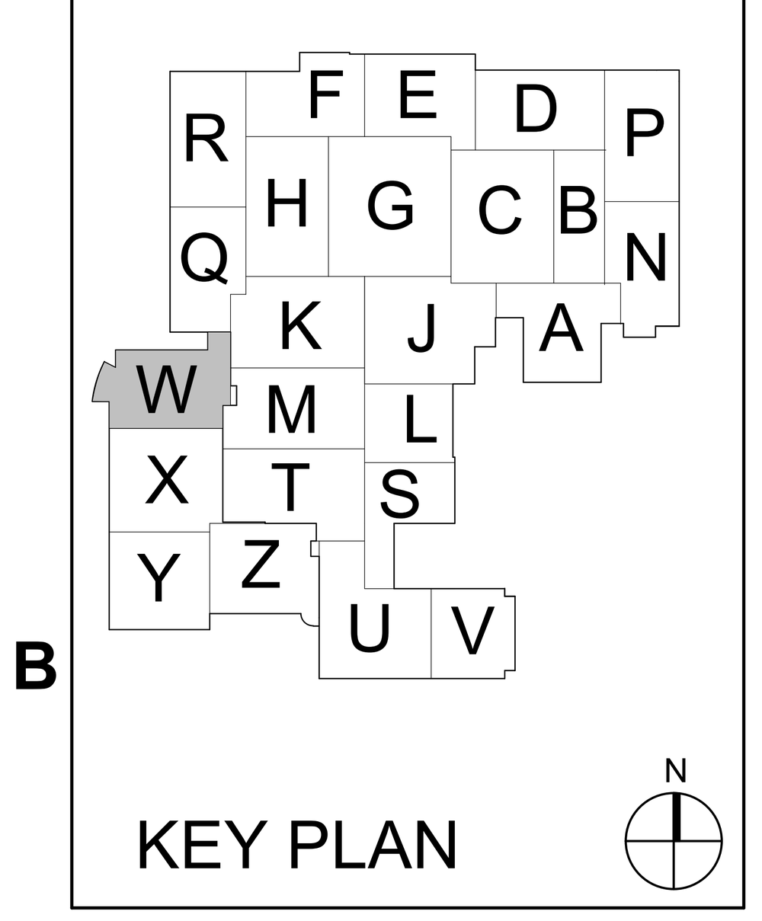


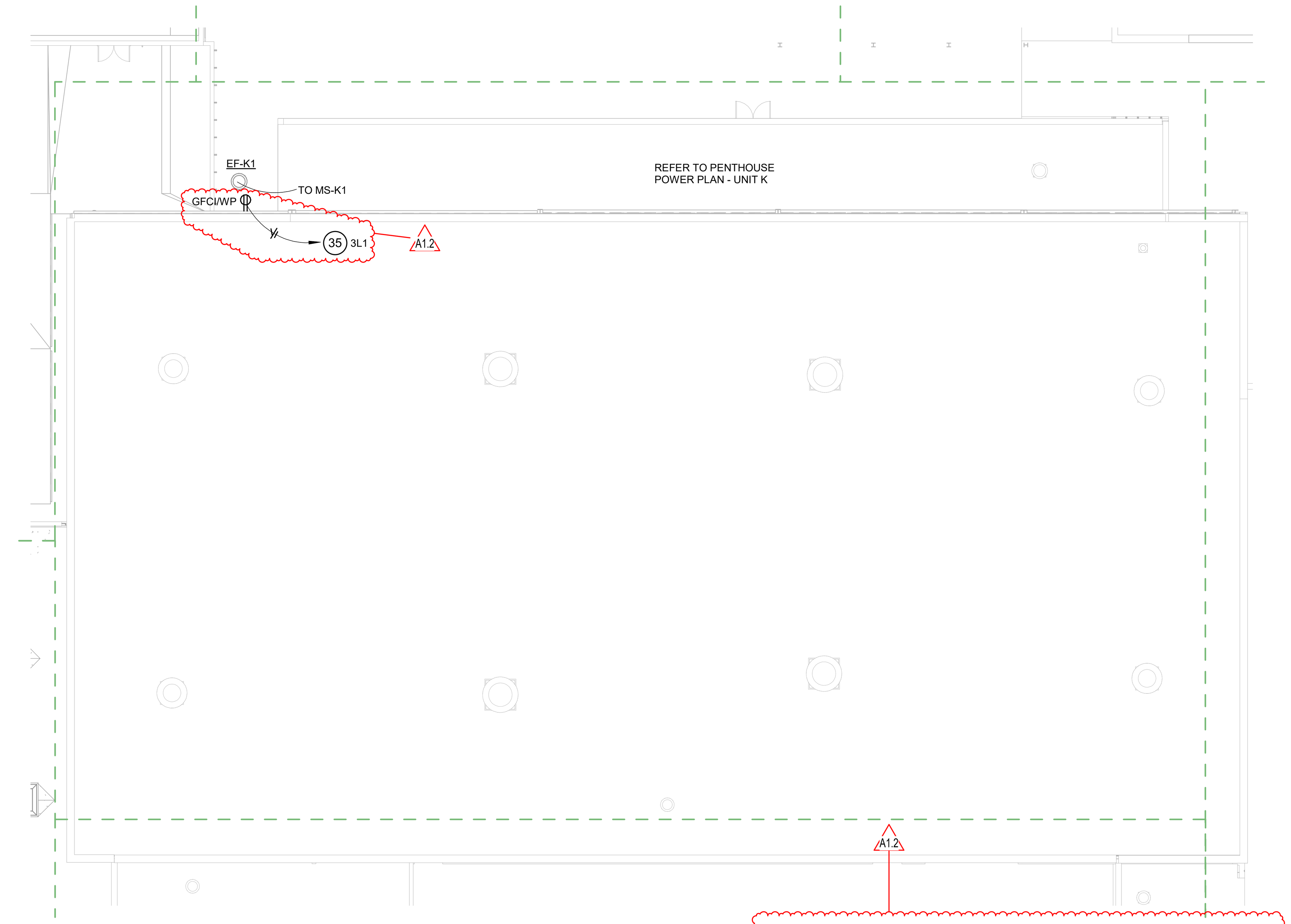
KEY PLAN

M.S.D. of Washington Township

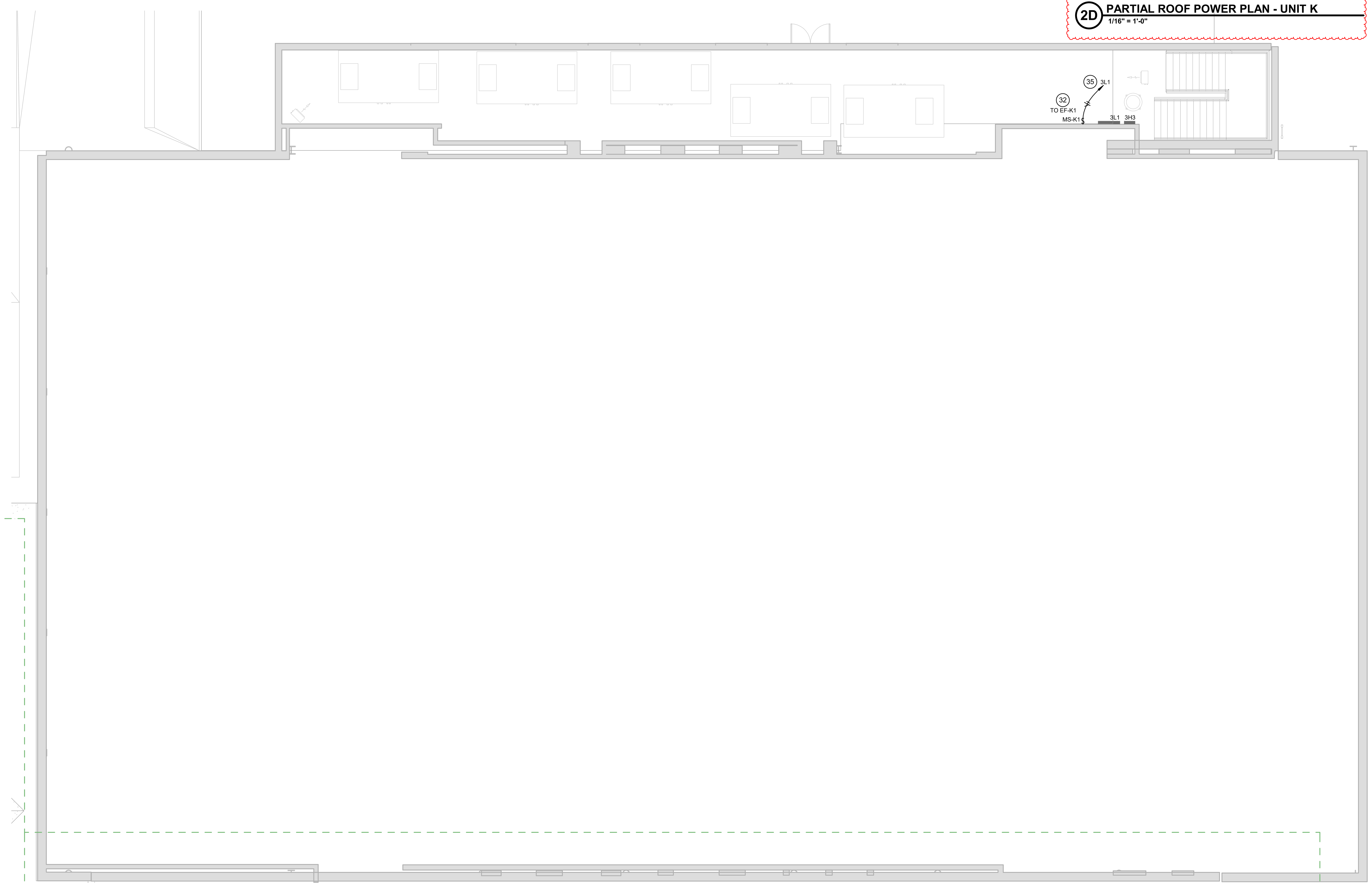
North Central High School Renovation - West Gym Addition

SECOND FLOOR POWER PLAN - UNIT W

EP1W2.2



2D PARTIAL ROOF POWER PLAN - UNIT K
1/16" = 1'-0"



2A PENTHOUSE POWER - UNIT K - PHASE 2 - SECTOR 2
1/8" = 1'-0"

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.

POWER PLAN NOTES

#	NOTES
1	INSTALL OVERHEAD DOOR DISCONNECT AT MOTOR. PROVIDE WIRING TO CONTROLLER. COORDINATE EXACT REQUIRMENTS WITH MANUFACTURER'S RECOMMENDATIONS.
2	CIRCUIT CONNECTION FOR HAND DRYER. COORDINATE MOUNTING HEIGHT WITH A-SERIES DRAWINGS. CIRCUIT PROTECTED BY GFCI BREAKER.
3	PLUMBING SENSOR ALTERNATE BID: CIRCUIT CONNECTION LOCATED ABOVE CEILING FOR SENSOR(S) TRANSFORMER(S). PROVIDE QUANTITY OF JUNCTION BOXES REQUIRED CONNECTED TO CIRCUIT INDICATED. CONNECT COMPLETE TO CIRCUIT INDICATED. REFER TO SCHEMATIC DIAGRAMS FOR ADDITIONAL INFORMATION. COORDINATE WITH P-SERIES DRAWINGS.
4	NEMA L6-20 RECEPTACLE FOR TELECOMMUNICATIONS RACK.
5	QUADRAPLEX RECEPTACLE FOR A/V RACK. COORDINATE LOCATION AND ELEVATION WITH T-SERIES DRAWINGS.
6	RECEPTACLE FOR ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION WITH ACCESS CONTROL CONTRACTOR.
7	CONNECT RECEPTACLES INDICATED TO EXISTING CIRCUIT SERVING ROOM.
8	INSTALL ALL RECEPTACLES IN CONCESSIONS AT +46" A.F.F. TO C.L. UNLESS LOCATED ABOVE COUNTERTOP OR INDICATED OTHERWISE.
9	DISPLAY CASES ALTERNATE: RECEPTACLE LOCATED AT +46" A.F.F. TO C.L. IN DISPLAY CASE.
10	RECEPTACLE AND CONTROLS OUTLET LOCATED AT 25'-9" A.F.F. TO C.L. FOR SCOREBOARD. INSTALL CONTROL WIRING IN 1"C DOWN WALL, UNDER SLAB, TO FLOOR BOX INDICATED. VERIFY MOUNTING HEIGHT WITH A-SERIES AND MANUFACTURER RECOMMENDATION.
11	DISCONNECT SWITCH FOR BASKETBALL GOAL ELECTRIC HEIGHT ADJUSTER. CONNECT COMPLETE TO GYM HOIST CONTROL SYSTEM RELAY PANEL AND MOTOR WITH F40 BRANCH CIRCUIT. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
12	DISCONNECT SWITCH FOR BASKETBALL GOAL ELECTRIC HOIST. CONNECT COMPLETE TO GYM HOIST CONTROL SYSTEM RELAY PANEL AND MOTOR WITH F40 BRANCH CIRCUIT. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
13	DISCONNECT SWITCH FOR GYM CURTAIN DIVIDER. CONNECT COMPLETE TO GYM HOIST CONTROL SYSTEM RELAY PANEL AND MOTOR. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
14	DISCONNECT SWITCH FOR VOLLEYBALL NET ELECTRIC HOIST. CONNECT COMPLETE TO GYM HOIST CONTROL SYSTEM RELAY PANEL AND MOTOR. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
15	RELAY PANEL FOR GYM HOIST CONTROL SYSTEM. REFER TO WIRING SCHEMATIC FOR ADDITIONAL INFORMATION. CONNECT TO CIRUITS INDICATED. PROVIDE ALL CONTROL WIRING AS REQUIRED BETWEEN ALL HOISTS AS REQUIRED TO PREVENT COLLISION DAMAGE BETWEEN THE EQUIPMENT.
16	KEY PAD FOR HOIST CONTROL SYSTEM. INSTALL KEYPAD IN A RECESSED 12"W X 12"H X 6"D BOX. REFER TO WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
17	DISCONNECT SWITCH FOR WRESTLING MAT ELECTRIC HOIST. CONNECT COMPLETE TO WRESTLING MAT HOIST SYSTEM CONTROL, MOTOR AND CONTROLS. REFER TO DETAIL AND WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
18	KEYED SWITCH PROVIDED BY MANUFACTURER FOR WRESTLING MAT ELECTRIC HOIST. CONNECT COMPLETE TO WRESTLING MAT HOIST SYSTEM CONTROL.
19	4" HIGH HOUSEKEEPING PAD EXTENDED 6" BEYOND EQUIPMENT, UNLESS SHOWN OTHERWISE.
20	CIRCUIT CONNECTION FOR MOTORIZED PROJECTOR SCREEN.
21	CONTROL SWITCH PROVIDED BY MANUFACTURER FOR MOTORIZED PROJECTOR SCREEN LOCATED AT +46" A.F.F. TO C.L. CONNECT COMPLETE TO SCREEN MOTOR.
22	RECEPTACLE FOR BEVERAGE COOLER.
23	RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER PRIOR TO INSTALLATION. CIRCUIT PROTECTED BY GFCI BREAKER.
24	RECEPTACLE FOR REFRIGERATOR AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
25	RECEPTACLE FOR ICE MACHINE AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
26	RECEPTACLE FOR WHIRLPOOL AT +46" A.F.F. TO C.L. CIRCUIT PROTECTED BY GFCI BREAKER.
27	RECEPTACLE FOR TREADMILL AT +18" A.F.F. TO C.L.
28	DISCONNECT SWITCH FOR SPLIT SYSTEM FAN COIL UNIT. REFER TO ROOF PLANS FOR LOCATION OF CORRESPONDING CONDENSING UNIT AND CIRCUIT NUMBER.
29	DISCONNECT SWITCH FOR SPLIT SYSTEM FAN COIL UNIT. REFER TO ROOF PLANS FOR LOCATION OF CORRESPONDING CONDENSING UNIT.
30	RECEPTACLE FOR GRAPHIC DISPLAY. COORDINATE ALL REQUIREMENTS, MOUNTING HEIGHTS, ETC. WITH OWNER.
31	DISCONNECT SWITCH FOR LAUNDRY EQUIPMENT. VERIFY SIZE AND FINAL LOCATION PER OWNER SELECTED EQUIPMENT. CONNECT COMPLETE TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS.
32	CONNECT COMPLETE TO EQUIPMENT INDICATED. FEED WITH SAME SIZE CONDUCTORS/CONDUIT AS FEED TO CONTROLLER.
33	CONNECT COMPLETE TO MANUFACTURER PROVIDED DISCONNECT SWITCH.
34	DISCONNECT SWITCH FOR UNIT HEATER. CONNECT COMPLETE TO UNIT HEATER.
35	CONNECT TO A SPARE 20A-1P CIRCUIT BREAKER IN THE PANELBOARD INDICATED.
36	CIRCUIT CONNECTION FOR TEMPERATURE CONTROL PANEL. CONNECT COMPLETE TO CIRCUIT INDICATED.
37	RECEPTACLE FOR PROJECTOR IN CEILING. COORDINATE WITH T-SERIES DRAWINGS.
38	MAIN ELECTRICAL GROUNDING BUSBAR.
39	REPLACE AND RELOCATE EXISTING PANELBOARDS TO NEW LOCATIONS INDICATED. REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION.
40	NEW LOCATION FOR RELAY PANEL AND MOTOR CONTROLLER TOGGLE SWITCHES. EXTEND EXISTING BRANCH CIRCUITS TO NEW LOCATION INDICATED.
41	NEW REPLACEMENT RECEPTACLE IN EXISTING LOCATION.
42	GROUND ROD LOCATED IN TEST WELL. REFER TO DETAILS.

A1.2

FIRE ALARM SYSTEM:

FIRE ALARM SYSTEM IS EXISTING TO REMAIN. REUSE ALL DEVICES DEMOLISHED IN THIS PHASE WHERE POSSIBLE. TURN OVER ALL UNUSED DEVICES TO THE OWNER. PROVIDE NEW FIRE ALARM DEVICES AS REQUIRED WHEN THE QUANTITY OF DEMOLISHED DEVICES IS NOT SUFFICIENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TRACK THE FIRE ALARM DEVICE QUANTITIES.

SCHMIDT ASSOCIATES
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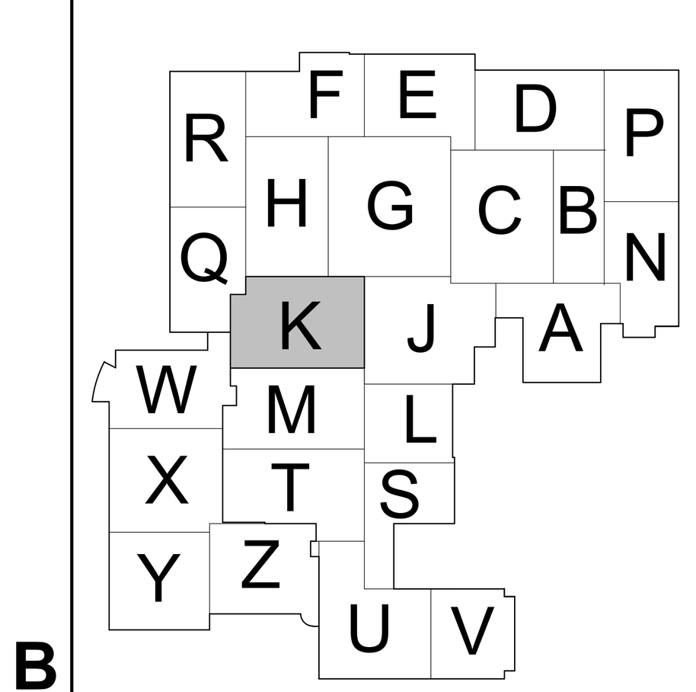
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

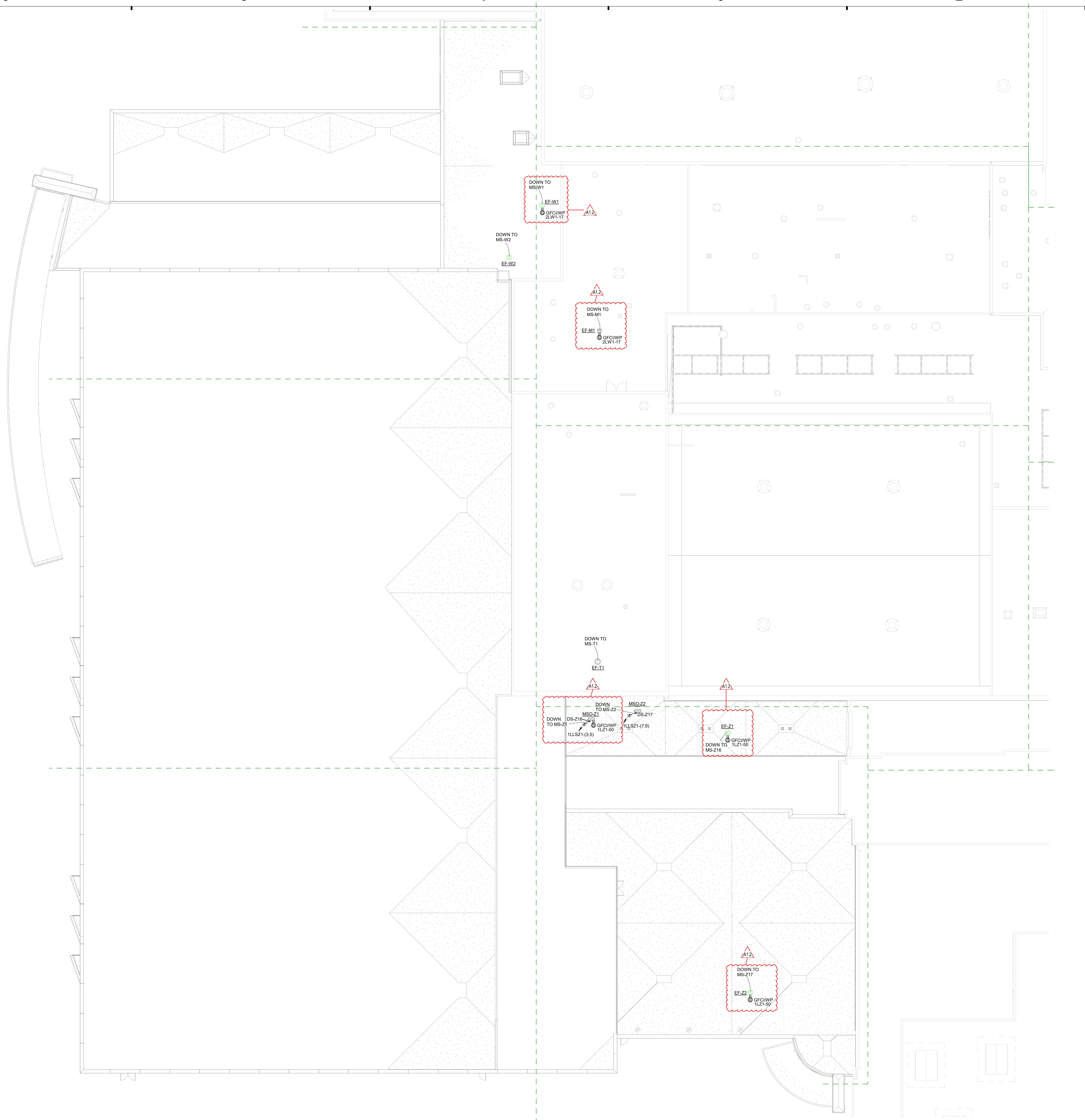
North Central High School Renovation - West Gym Addition

PENTHOUSE & ROOF POWER PLAN - UNIT K

EP1K3.2

GENERAL POWER NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.



2A PARTIAL ROOF POWER PLAN - UNITS M/T/W/X/Y/Z
1/16" = 1'-0"

SCHMIDT ASSOCIATES
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A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

PARTIAL ROOF POWER PLAN - UNITS M/T/W/X/Y/Z

ER101.2

SCHMIDT
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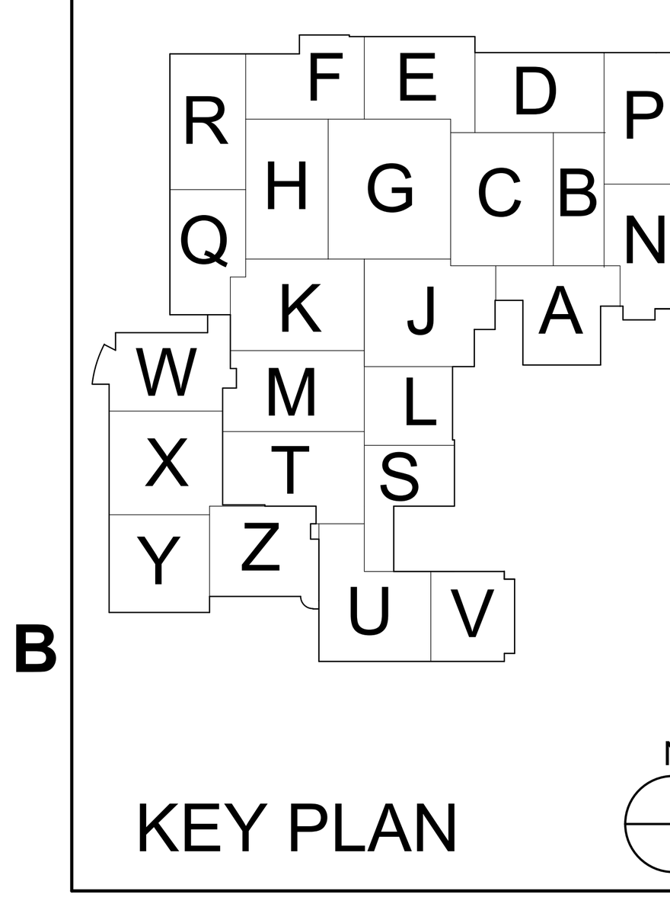


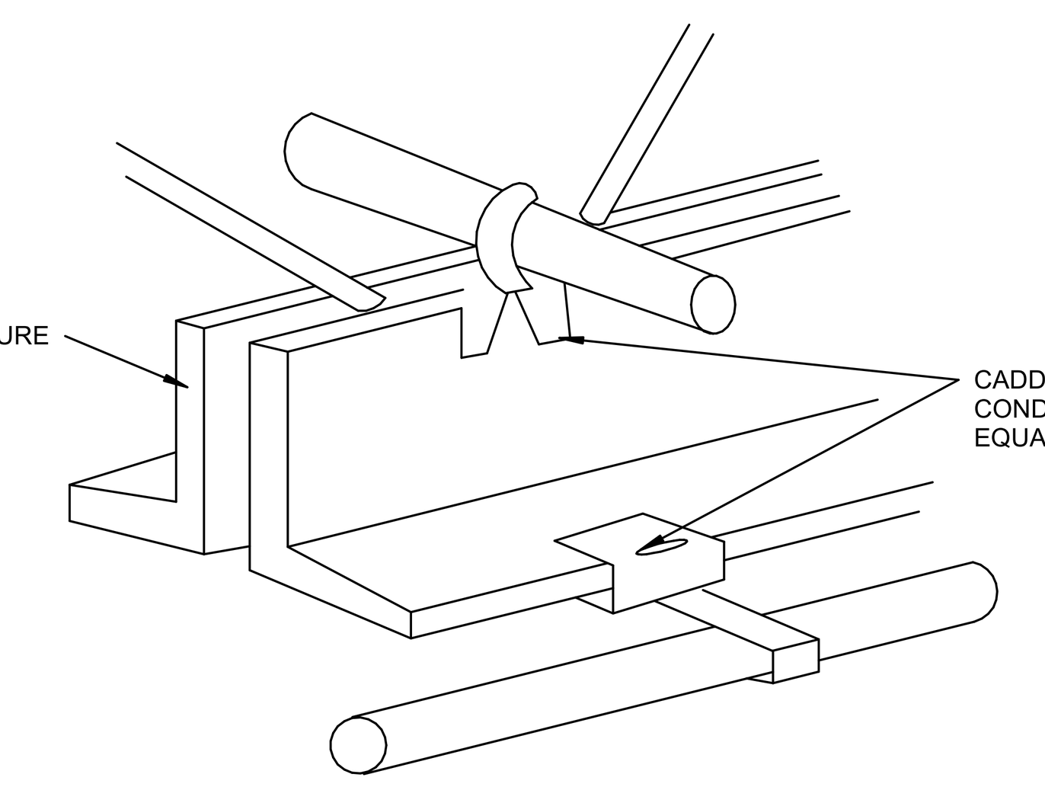
KEY PLAN

M.S.D. of Washington Township

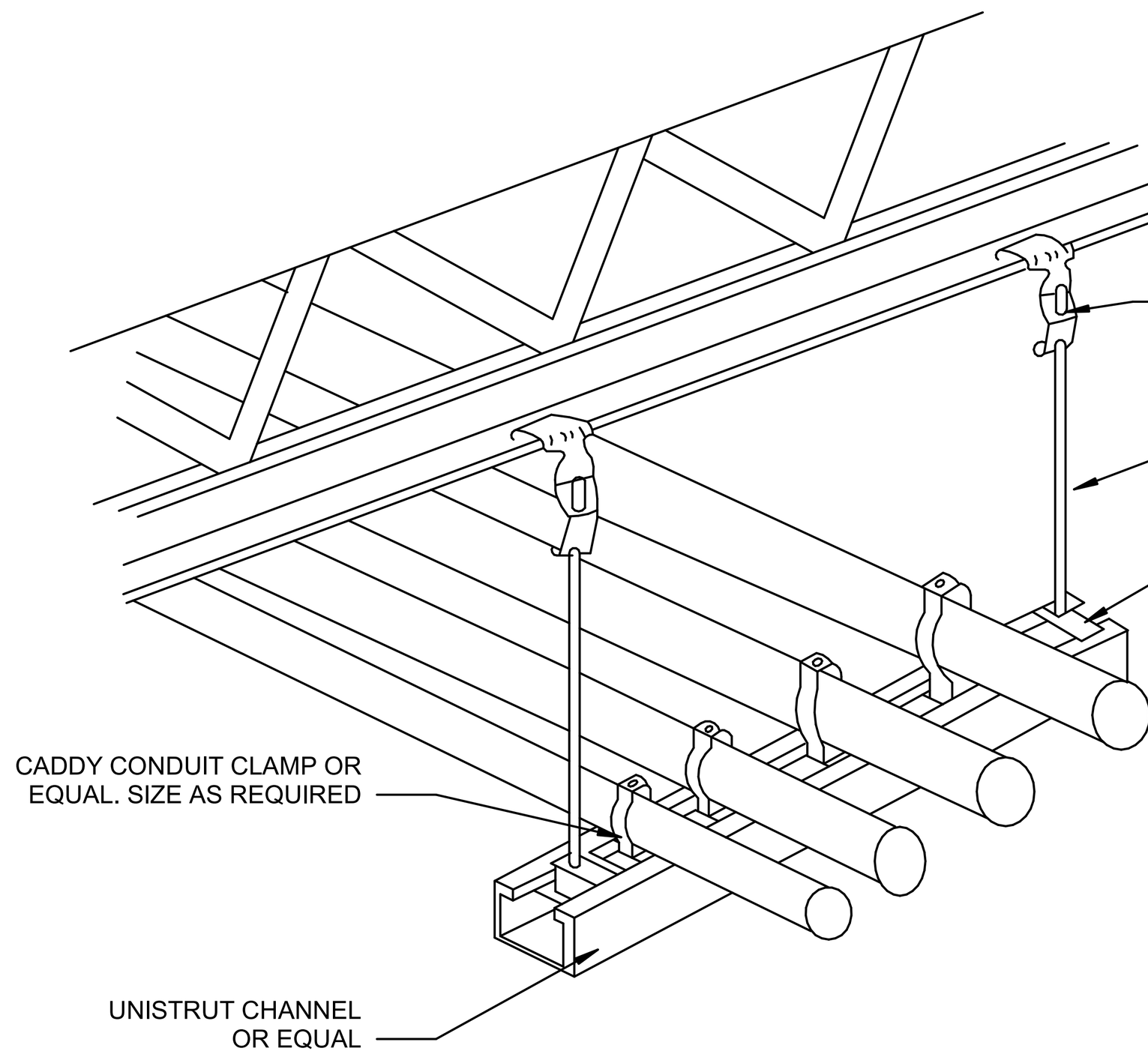
North Central High School Renovation - West Gym Addition

DETAILS

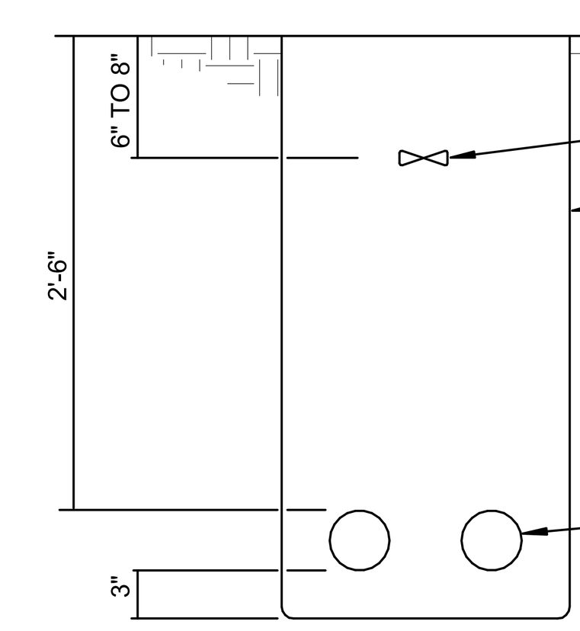
E-501.2



4D CONDUIT 2" AND SMALLER SUPPORT DETAIL
NOT TO SCALE

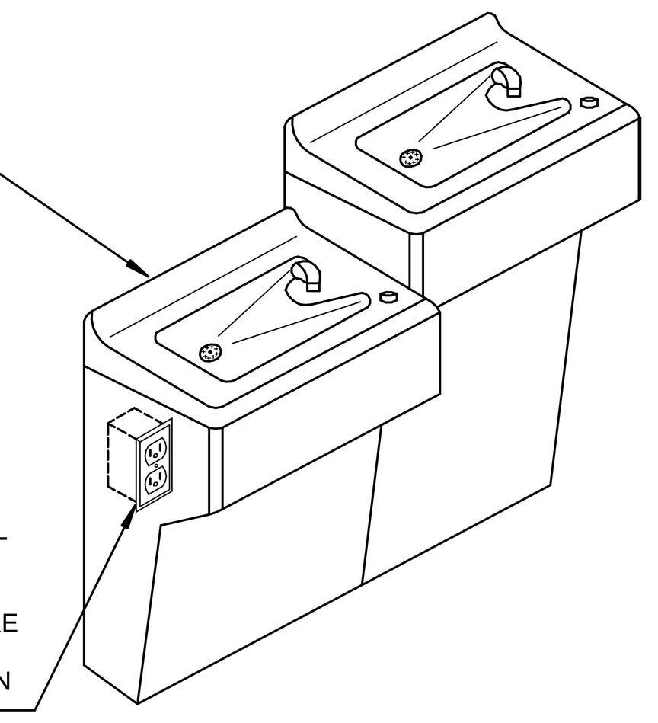


2D CONDUIT 2-1/2" AND LARGER SUPPORT DETAIL
NOT TO SCALE

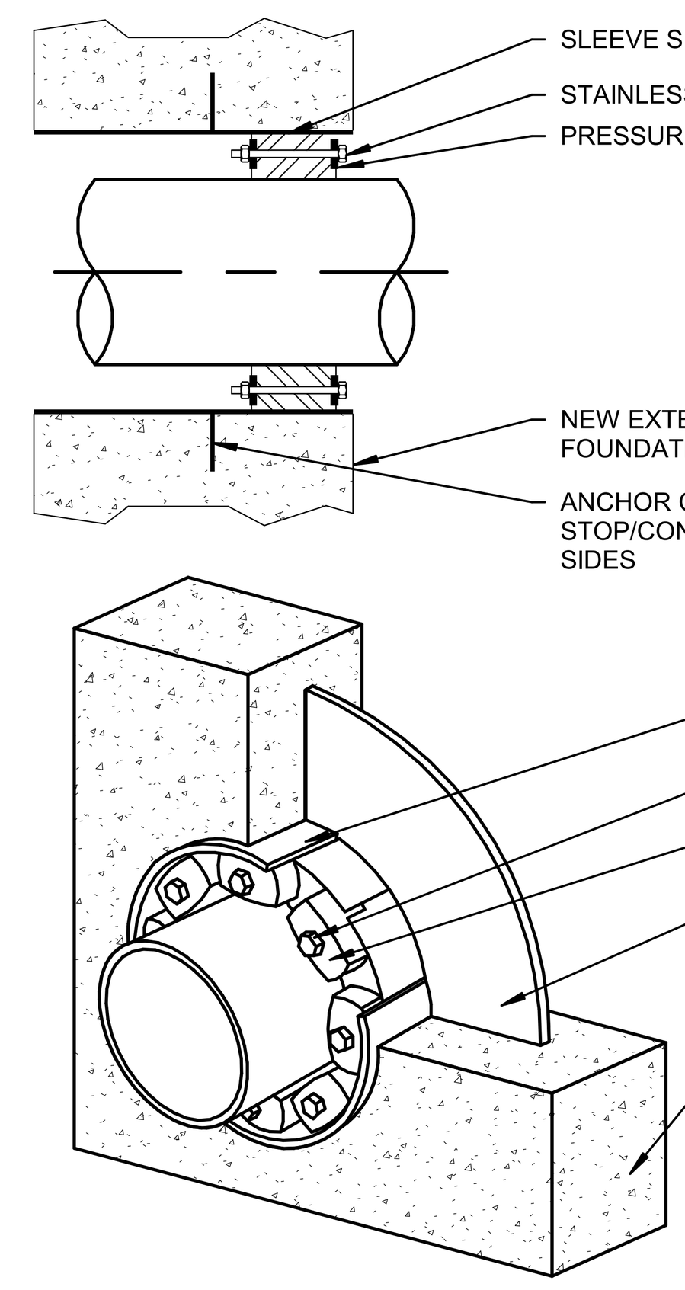


NOTE:
1. USE BURIAL DEPTH SHOWN UNLESS NOTED OTHERWISE IN SPECIFICATIONS OR ON DRAWINGS. BURIAL DEPTHS FOR CONDUITS WITH MEDIUM VOLTAGE CABLES SHALL BE INSTALLED AT 42" BELOW GRADE.

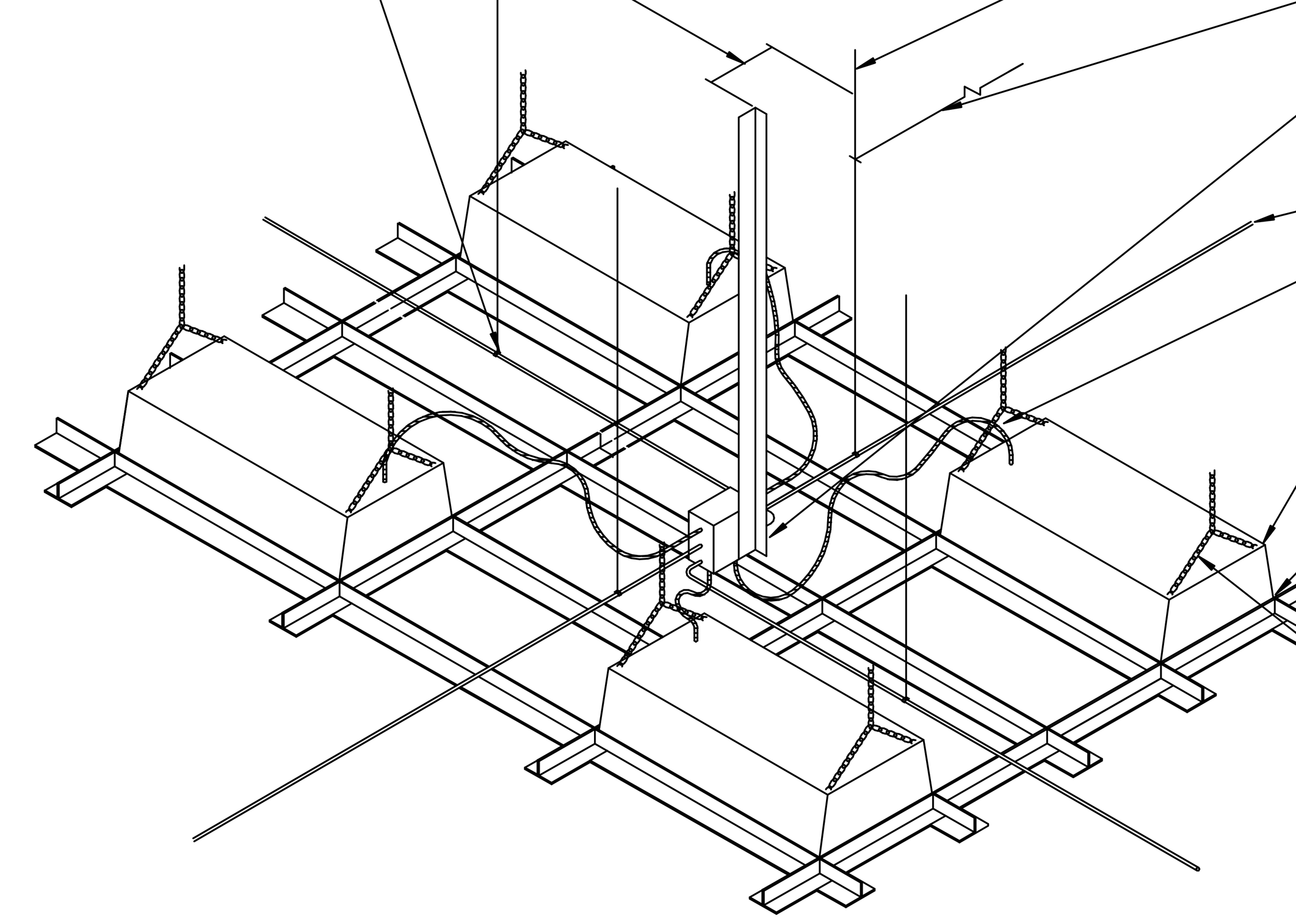
1D UNDERGROUND BRANCH CIR. CONDUIT(S) DETAIL
NOT TO SCALE



1C ELECTRIC WATER COOLER (EWC) DETAIL
NOT TO SCALE

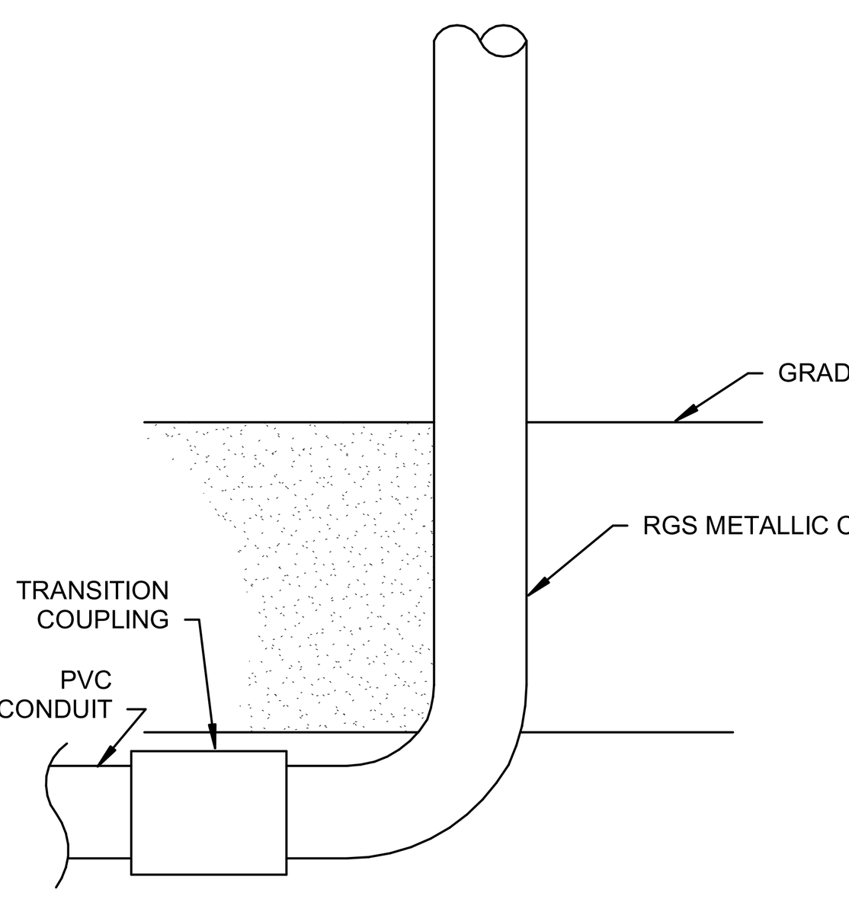


4B SLEEVE SEAL SYSTEM WITH SLEEVE DETAIL
NOT TO SCALE



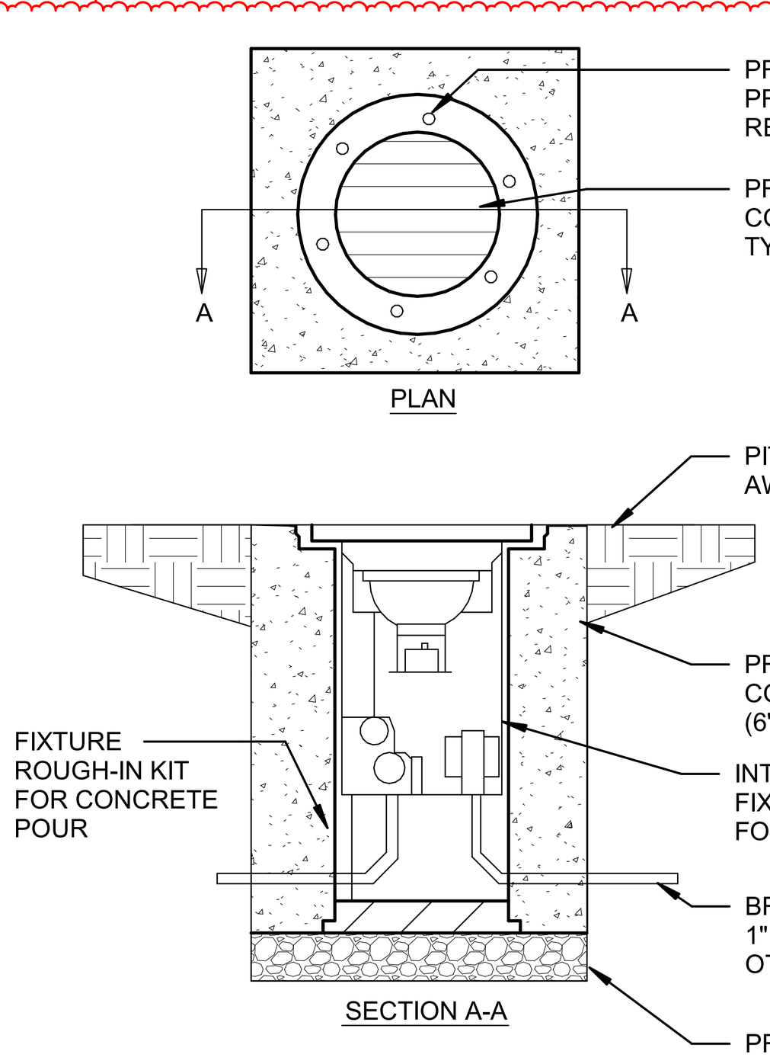
NOTE:
DO NOT SUPPORT CONDUIT OR BOX FROM CEILING GRID HANGERS

3B RECESSED LIGHTING INSTALLATION
NOT TO SCALE

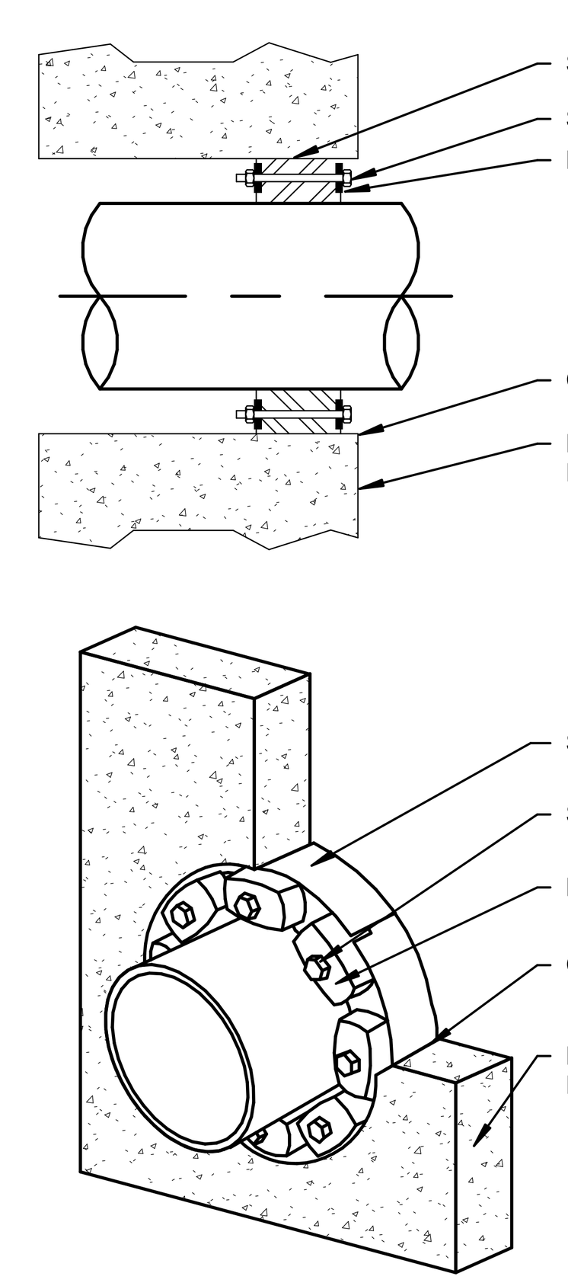


2B PVC TO ABOVE GROUND CONDUIT STUB-UP DETAIL
NOT TO SCALE

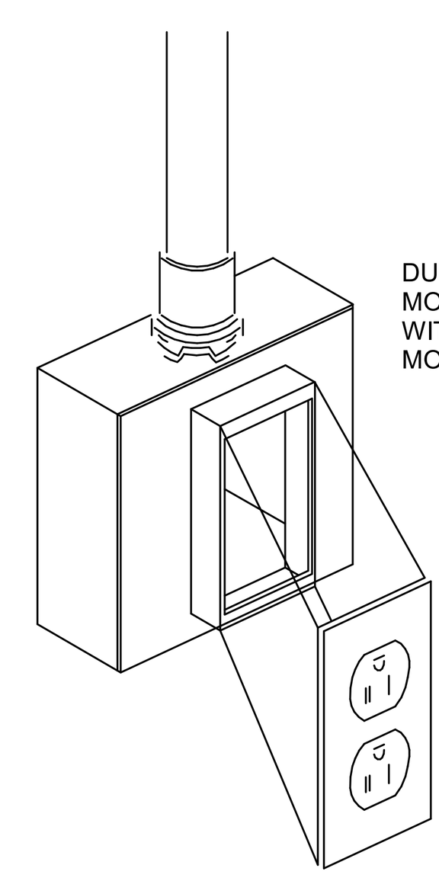
A1.2



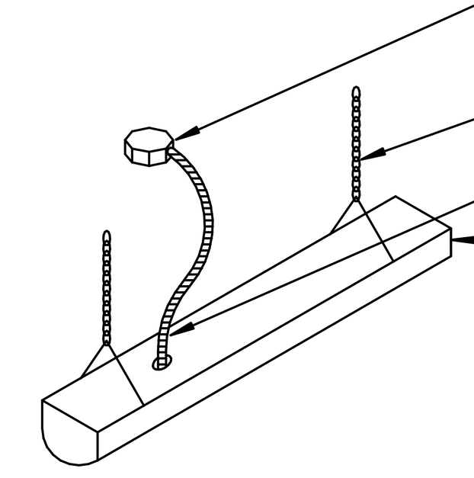
5A GROUND MOUNTED LIGHT DETAIL
NOT TO SCALE



4A SLEEVE SEAL SYSTEM WITH SLEEVE DETAIL
NOT TO SCALE

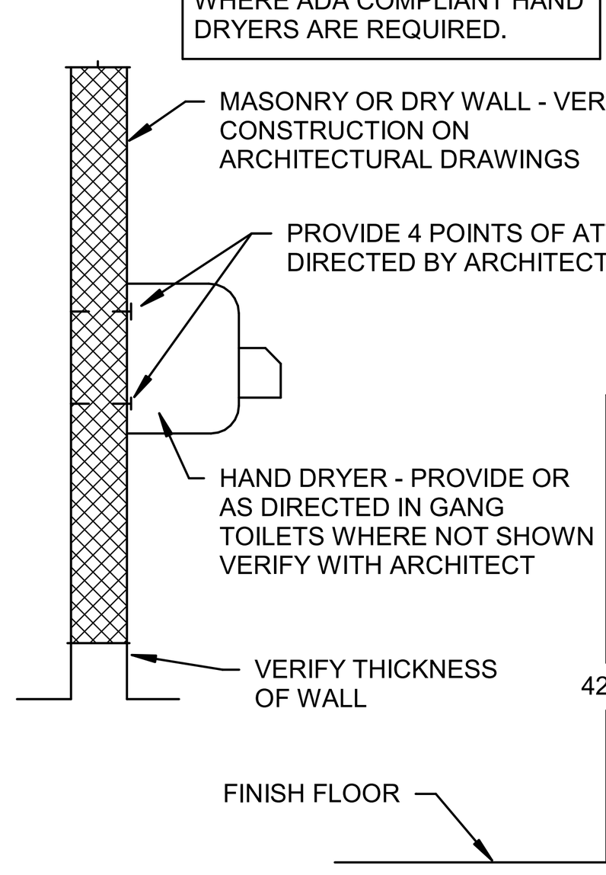


3A TYPICAL FLUSH MOUNTED DUPLEX DETAIL
NOT TO SCALE

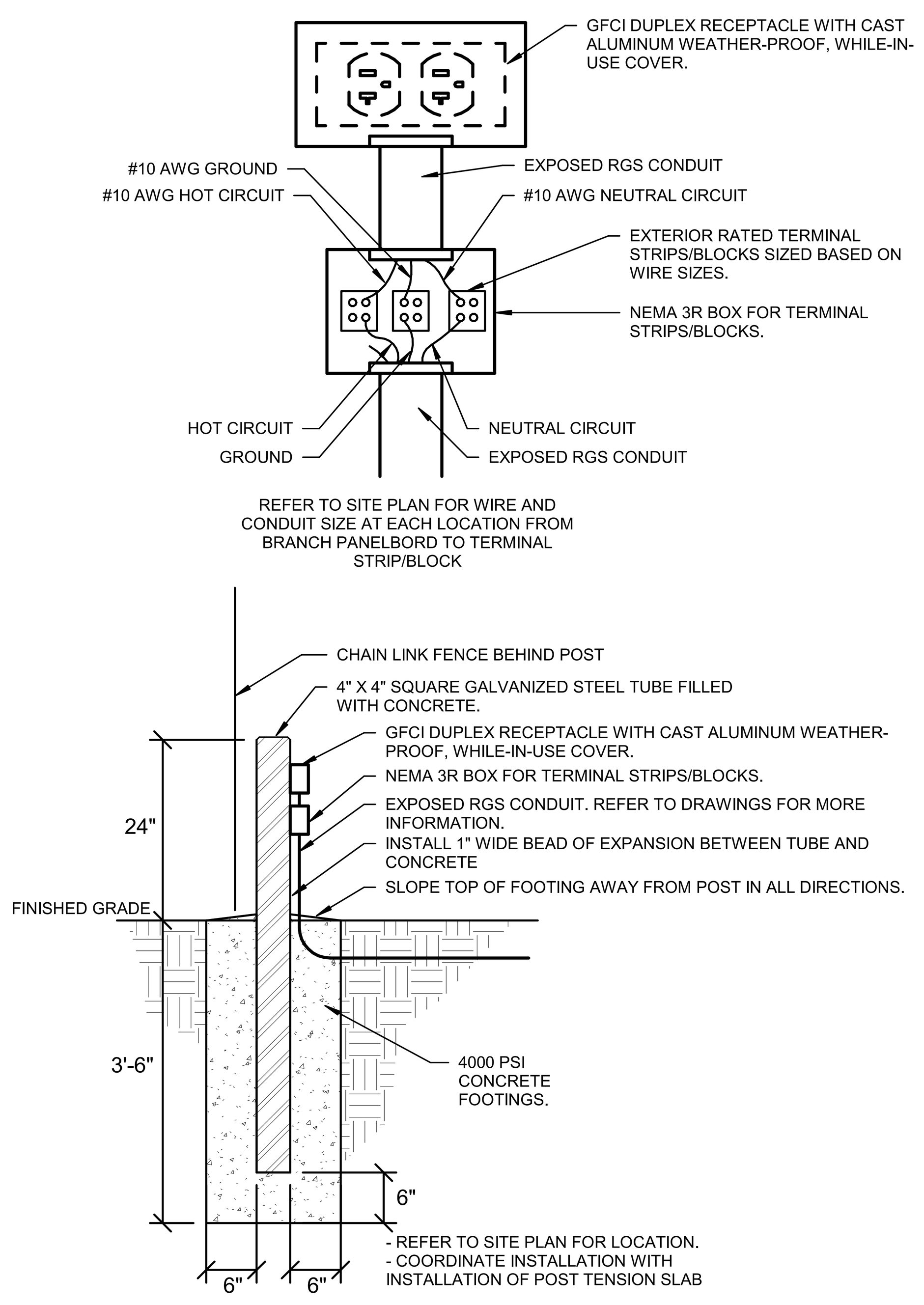


NOTES:
1. SELECT CHAIN LENGTH TO PROVIDE MOUNTING HEIGHT AS REQUIRED ON DRAWINGS
2. PROVIDE TWO CHAIN HANGERS FOR EACH FIXTURE. ADJUST TO HANG FIXTURE LEVEL

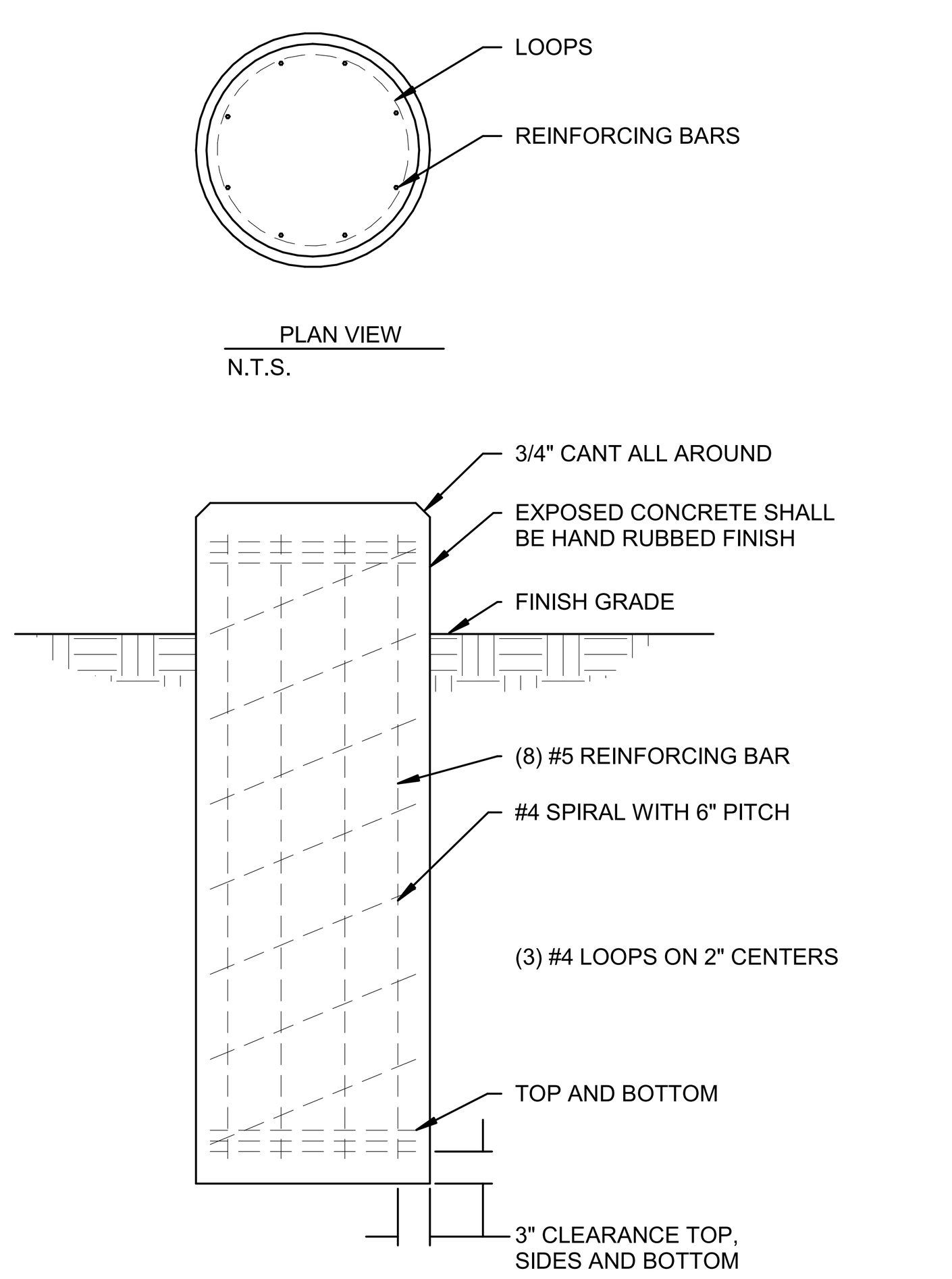
2A CHAIN SUSPENDED LIGHTING INSTALLATION
NOT TO SCALE



1A ELECTRIC HAND DRYER DETAIL
NOT TO SCALE

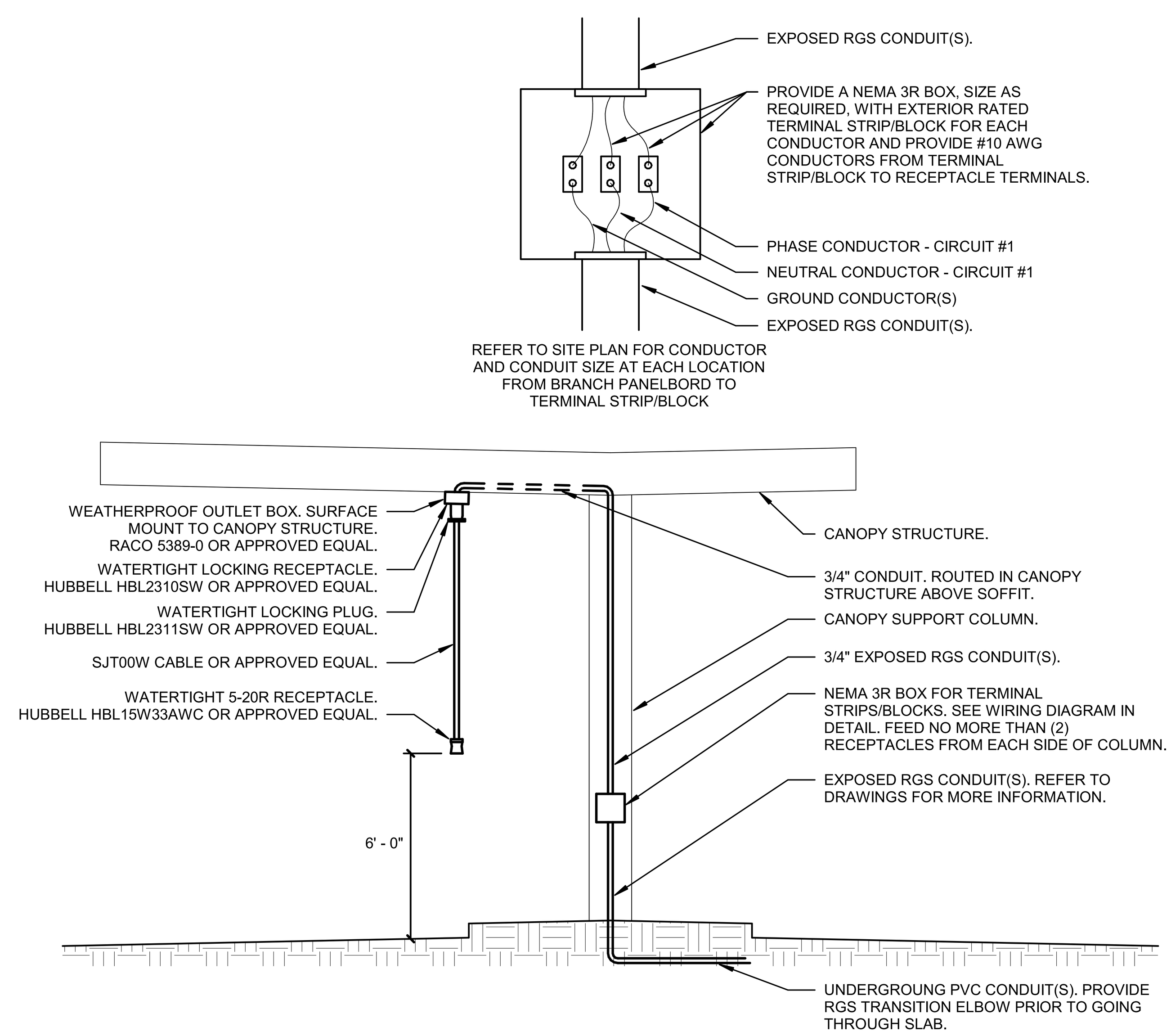


5C TENNIS COURT RECEPTACLES MOUNTING DETAIL
NOT TO SCALE

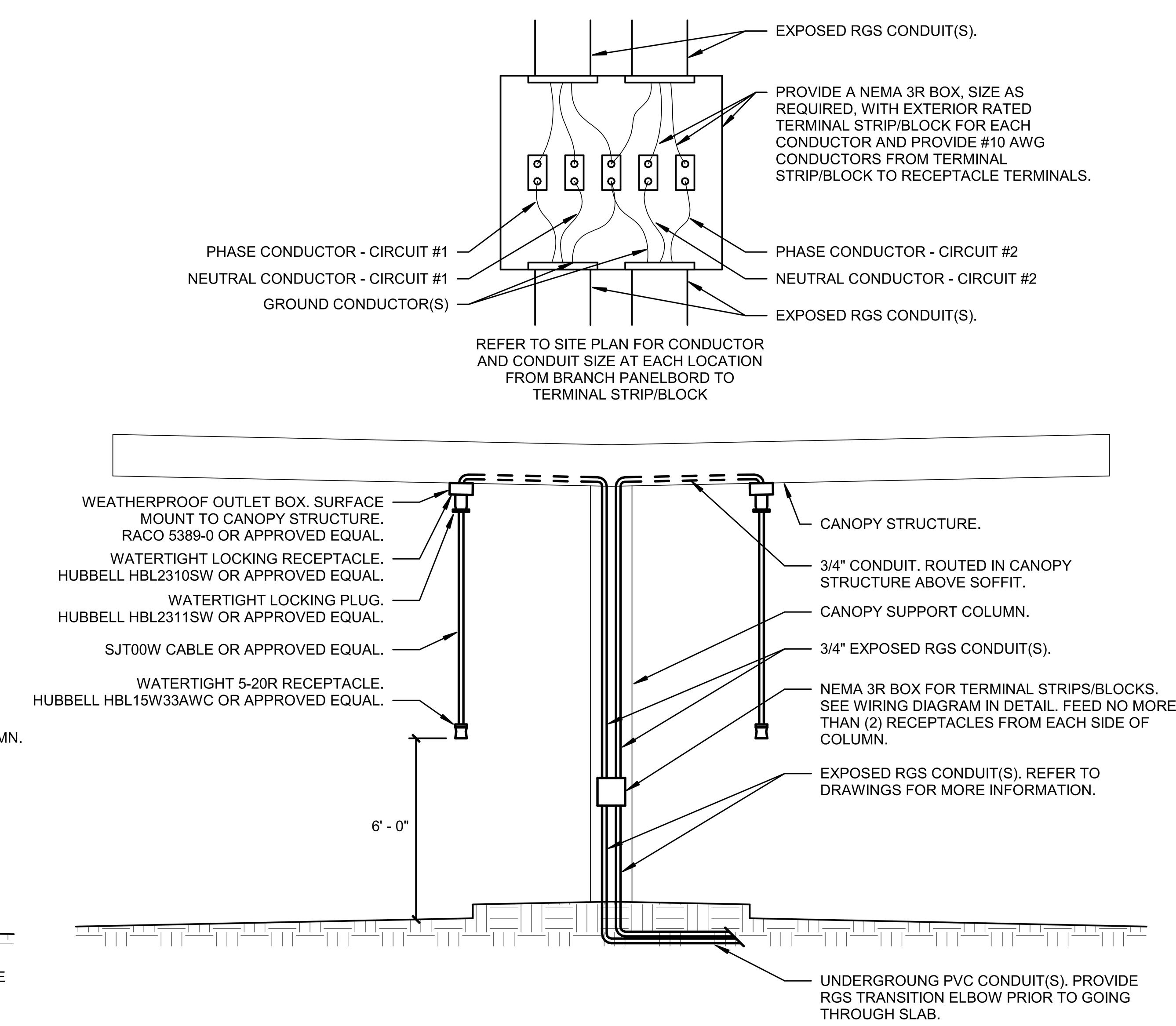


NOTES:
1. USE 4000 PSI 28 DAY STRENGTH CONCRETE FOR POLE BASE
2. PLACE CONCRETE THE SAME DAY BASE IS DRILLED
3. USE SONOTUBE FORM ABOVE GRADE AND EXTEND TO 6" BELOW GRADE
4. REFER TO POLE BASE DETAIL FOR DIMENSIONS

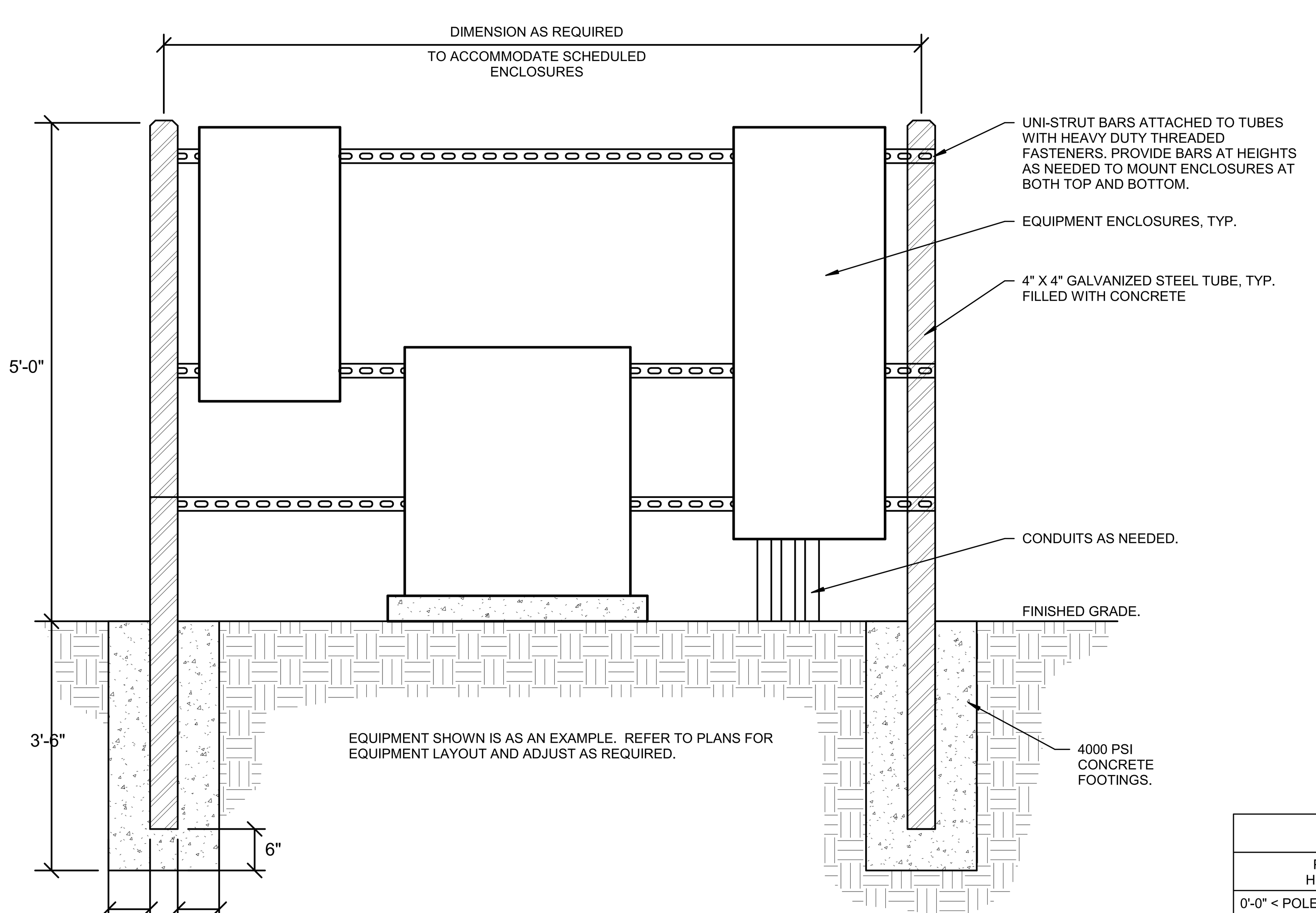
4C POLE BASE CONCRETE AND REINFORCING DETAIL
NOT TO SCALE



2C BUS BLOCK HEATER RECEPTACLES MOUNTING DETAIL - CANOPY HALF SECTION
NOT TO SCALE

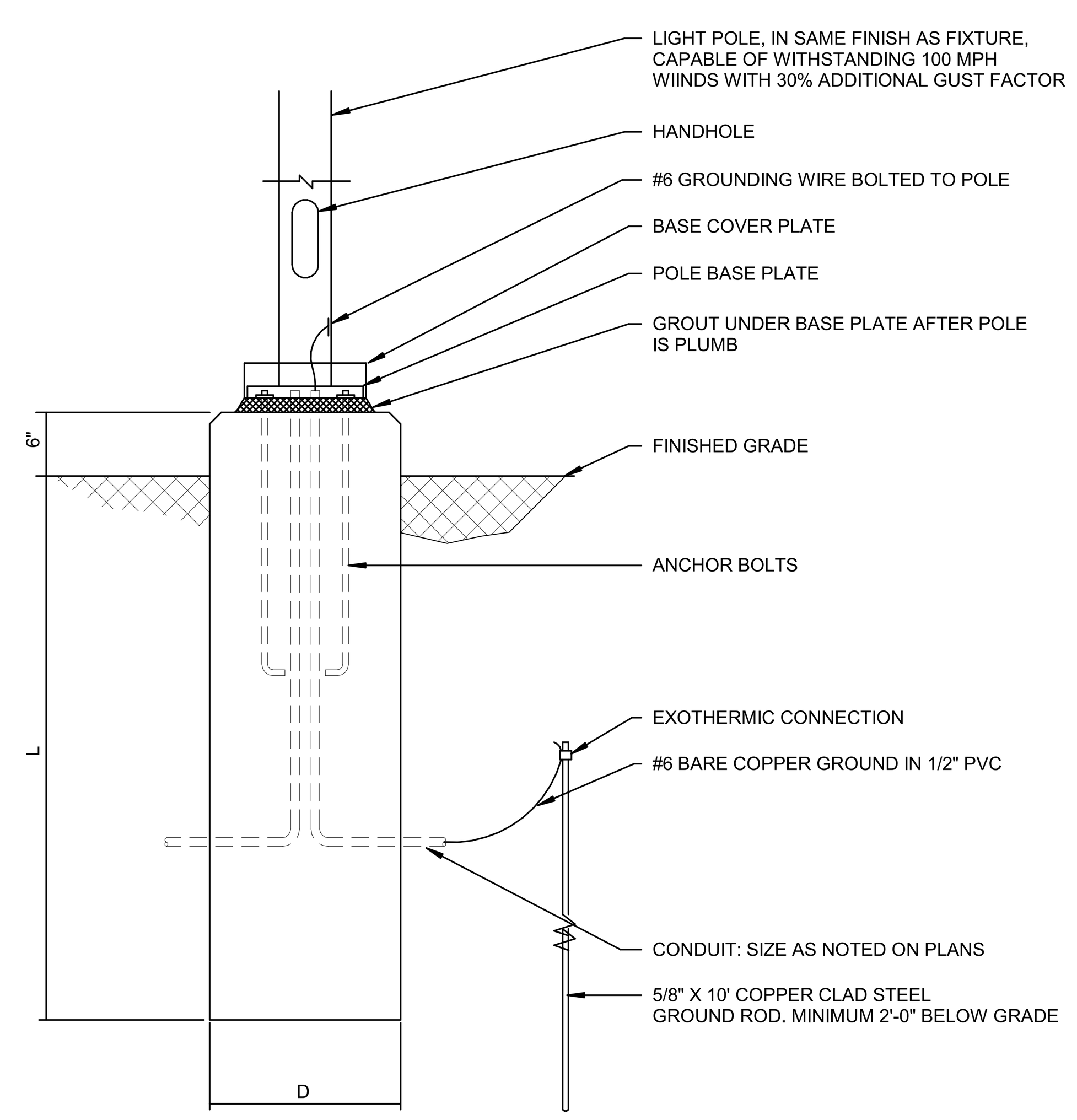


1C BUS BLOCK HEATER RECEPTACLES MOUNTING DETAIL - CANOPY
NOT TO SCALE



NOTE: UNI-STRUT BARS AND EQUIPMENT ENCLOSURES MAY BE MOUNTED TO BOTH SIDES OF STEEL TUBES

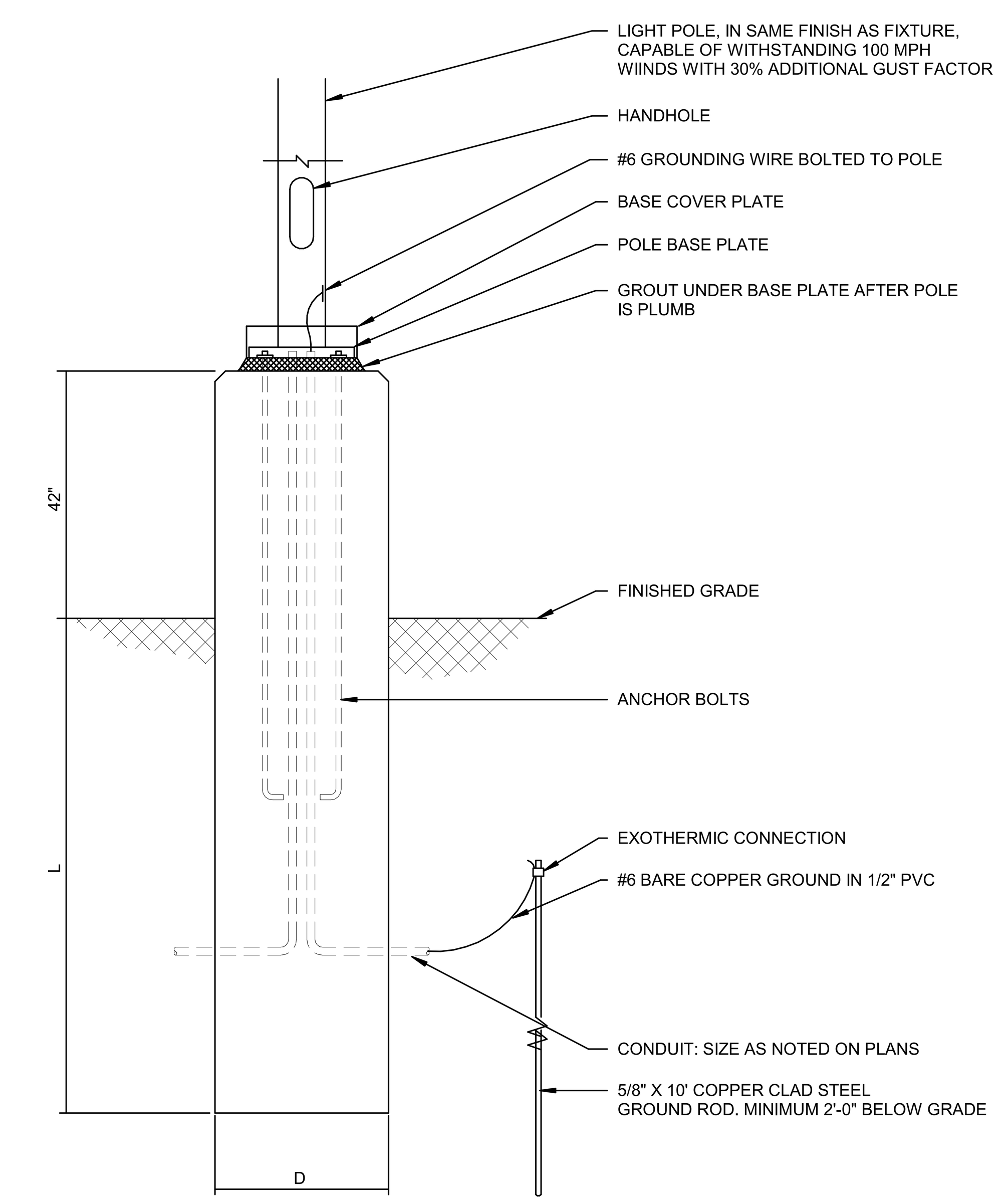
4A EXTERIOR EQUIPMENT MOUNTING FRAME DETAIL
NOT TO SCALE



DIMENSIONS		
POLE HEIGHT	L	D
0'-0" < POLE HEIGHT ≤ 12'-0"	4'-6"	1'-6"
12'-0" < POLE HEIGHT ≤ 20'-0"	5'-0"	2'-0"
20'-0" < POLE HEIGHT ≤ 30'-0"	6'-0"	2'-6"
30'-0" < POLE HEIGHT ≤ 40'-0"	7'-0"	3'-0 "

NOTES:
1. VERIFY ANCHOR BOLT LOCATIONS WITH MANUFACTURER'S TEMPLATE PRIOR TO BASE CONSTRUCTION
2. REFER TO POLE BASE CONCRETE AND REINFORCING DETAIL 3 FOR ADDITIONAL REQUIREMENTS
3. THIS POLE BASE SHALL BE USED WHERE POLE IS IN GRASSY AREA PROTECTED BY CURB OR OTHER BARRIER

3A POLE BASE - 6"
NOT TO SCALE



DIMENSIONS		
POLE HEIGHT	L	D
0'-0" < POLE HEIGHT ≤ 12'-0"	4'-6"	1'-6"
12'-0" < POLE HEIGHT ≤ 20'-0"	5'-0"	2'-0"
20'-0" < POLE HEIGHT ≤ 30'-0"	6'-0"	2'-6"
30'-0" < POLE HEIGHT ≤ 40'-0"	7'-0"	3'-0 "

NOTES:
1. VERIFY ANCHOR BOLT LOCATIONS WITH MANUFACTURER'S TEMPLATE PRIOR TO BASE CONSTRUCTION
2. REFER TO POLE BASE CONCRETE AND REINFORCING DETAIL 3 FOR ADDITIONAL REQUIREMENTS
3. THIS POLE BASE SHALL BE USED WHERE POLE IS IN GRASSY AREA PROTECTED BY CURB OR OTHER BARRIER

1A POLE BASE - 42"
NOT TO SCALE

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SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
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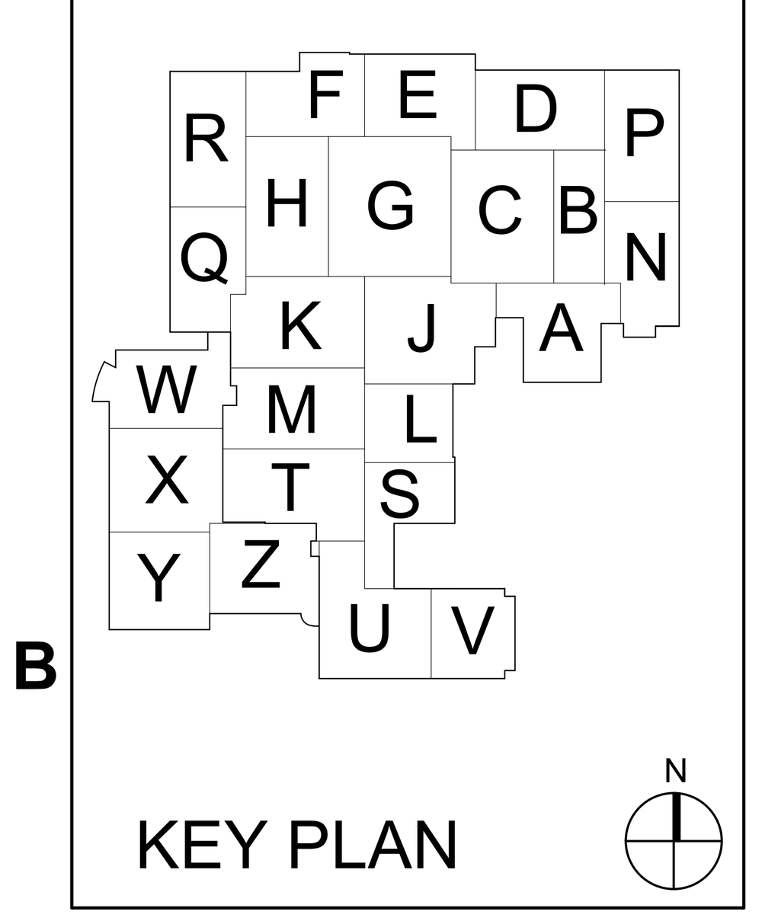


KEY PLAN

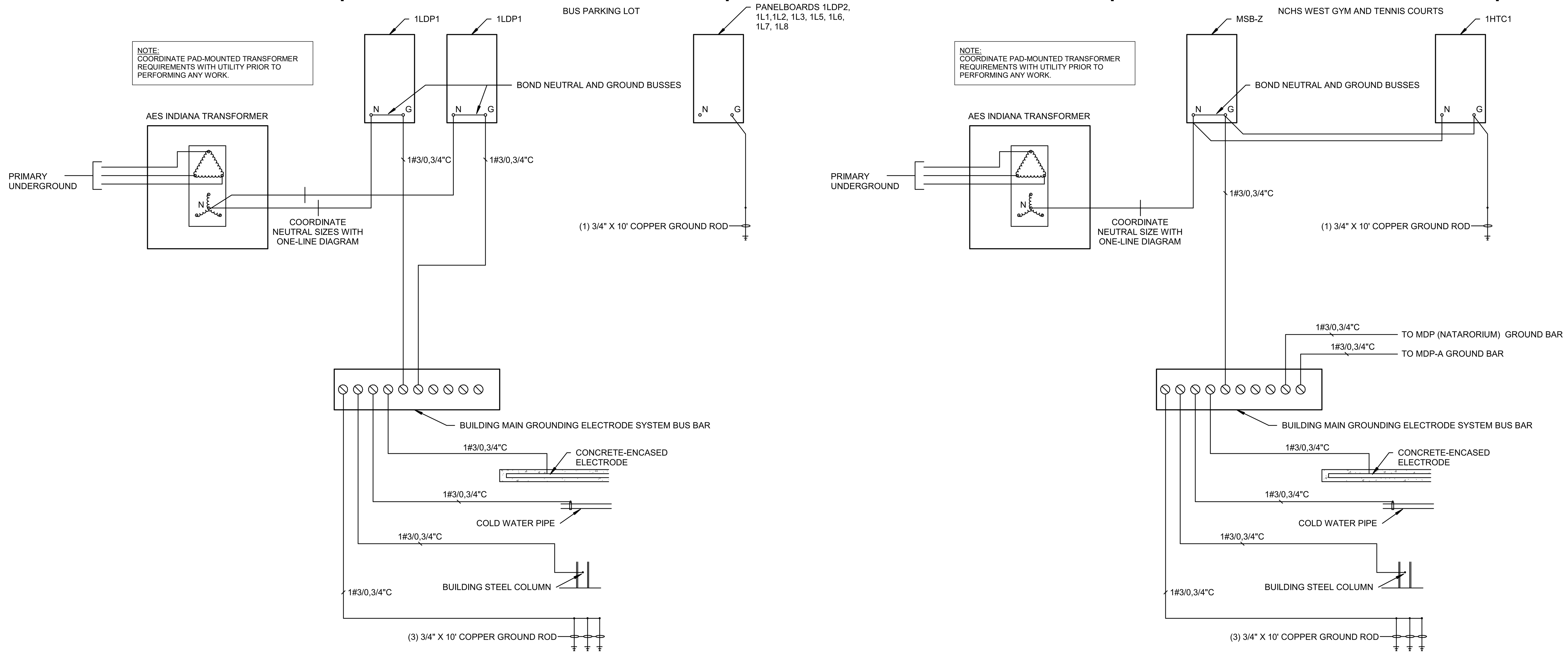
M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

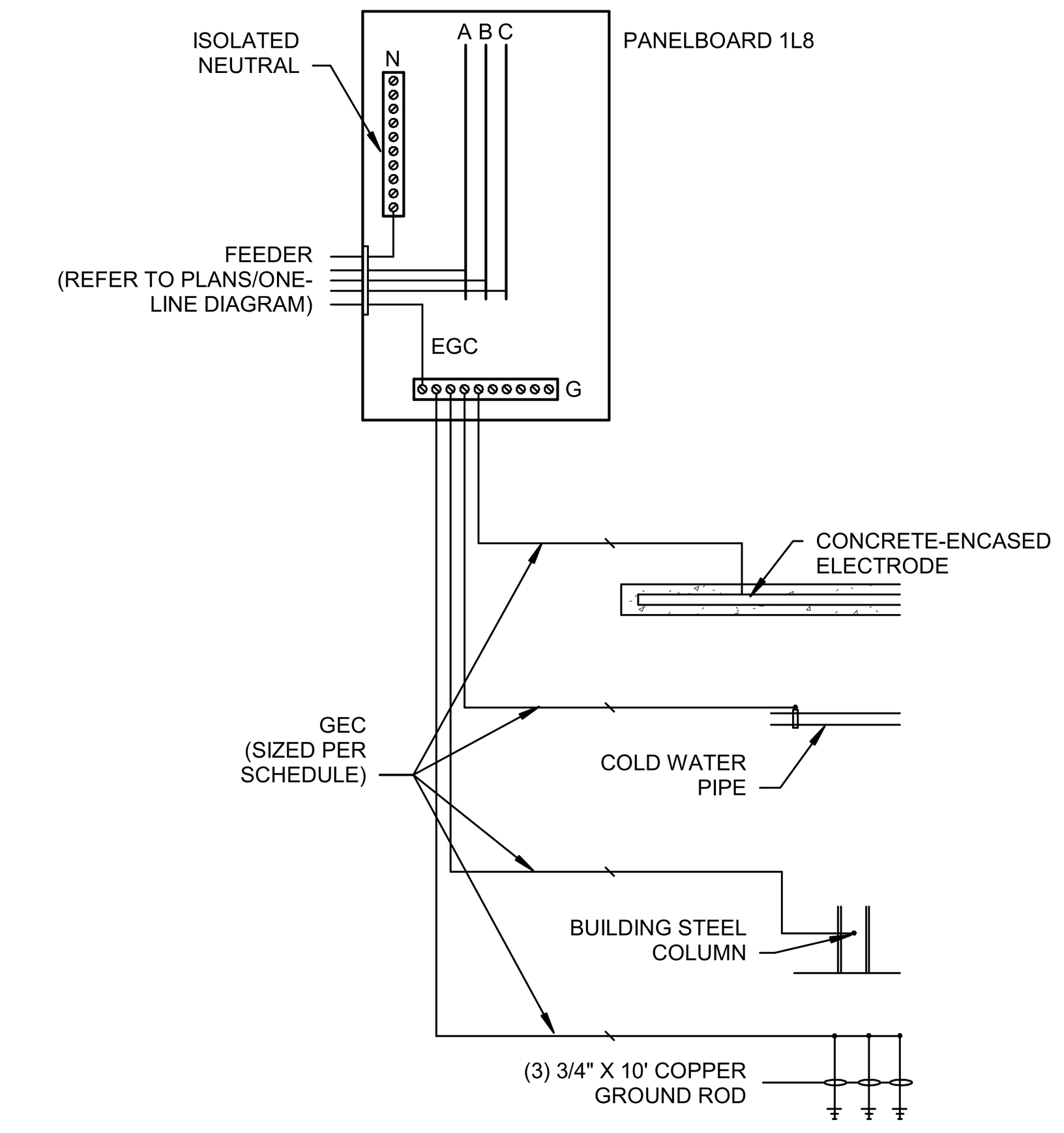
DETAILS

E-502.2

6 5 4 3 2 1

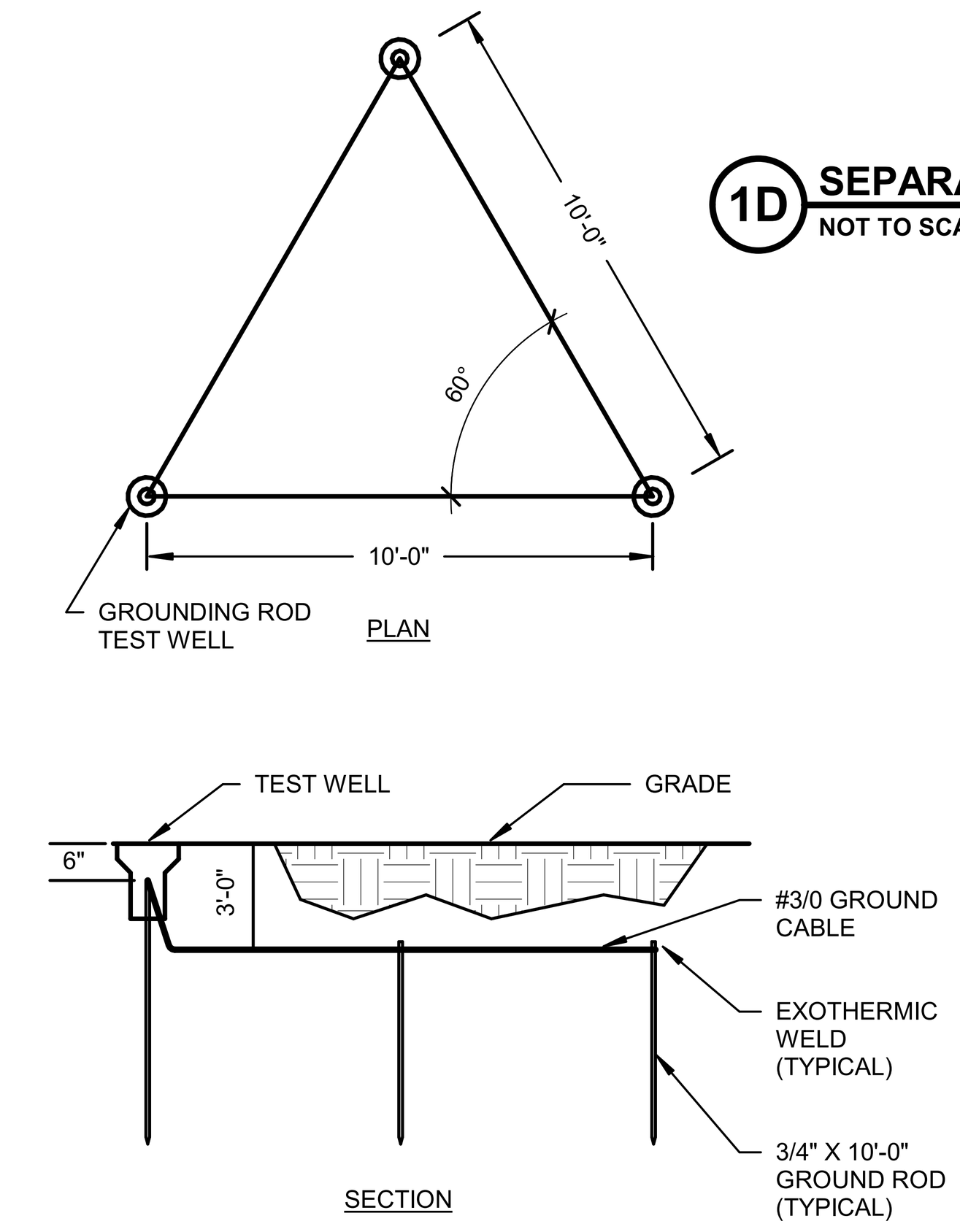


2D SERVICE ENTRANCE GROUNDING AND BONDING SCHEMATIC
NOT TO SCALE

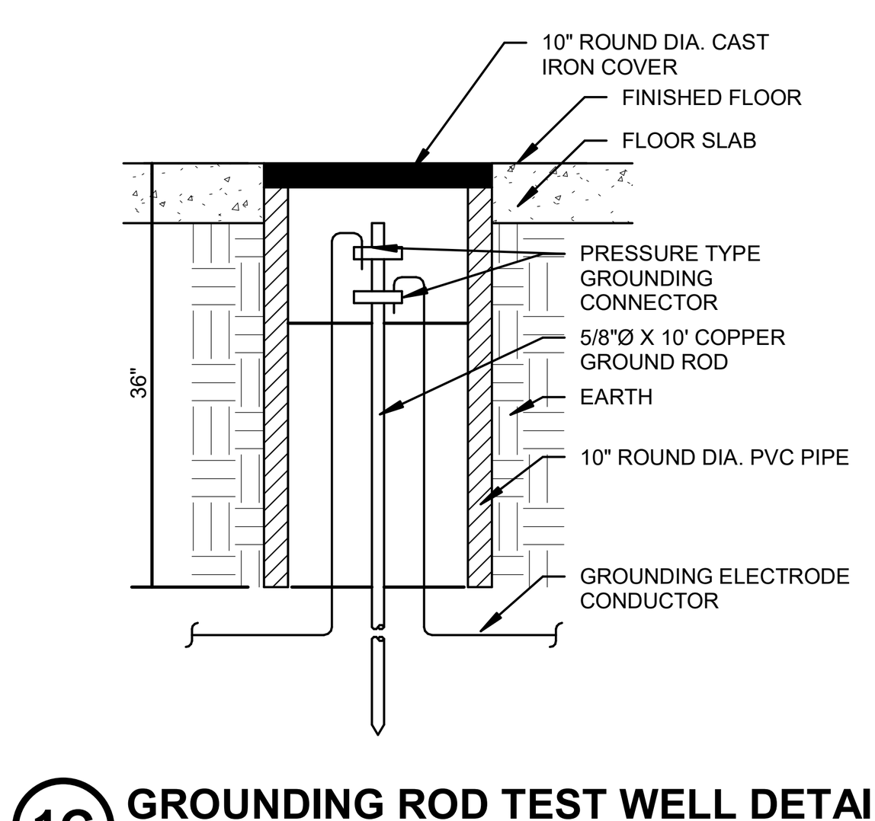


COPPER GROUNDING ELECTRODE CONDUCTOR (GEC) SIZES	
FEEDER SIZES	GEC SIZE
F20 - F90	1#8 IN 3/4"C
F100 - F150	1#6 IN 3/4"C
F175 - F200	1#4 IN 3/4"C
F225 - F300	1#2 IN 3/4"C
F350 - F500	1#1/0 IN 3/4"C
F600 - F900	1#2/0 IN 3/4"C
F1000 - F3000	1#3/0 IN 3/4"C

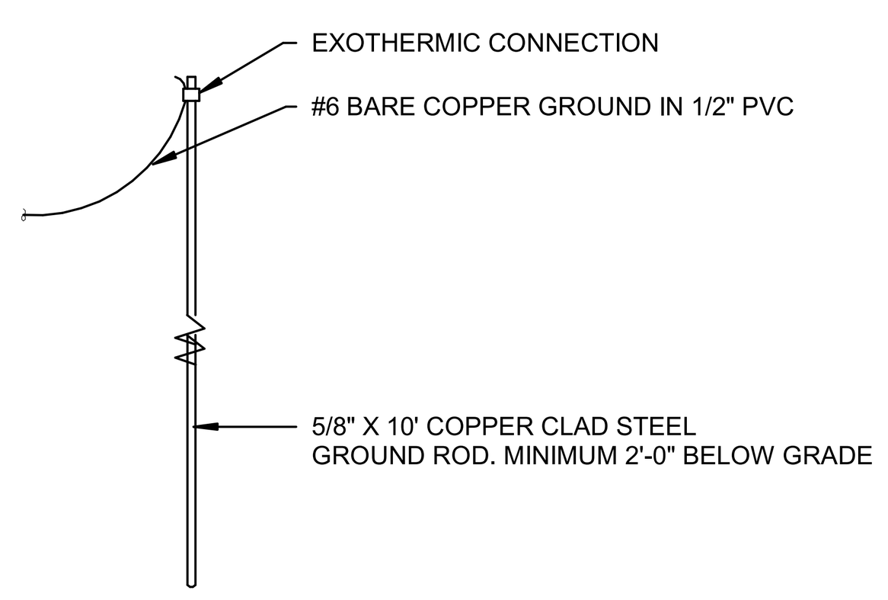
1D SEPARATE BUILDING/STRUCTURE GROUNDING & BONDING SCHEMATIC
NOT TO SCALE



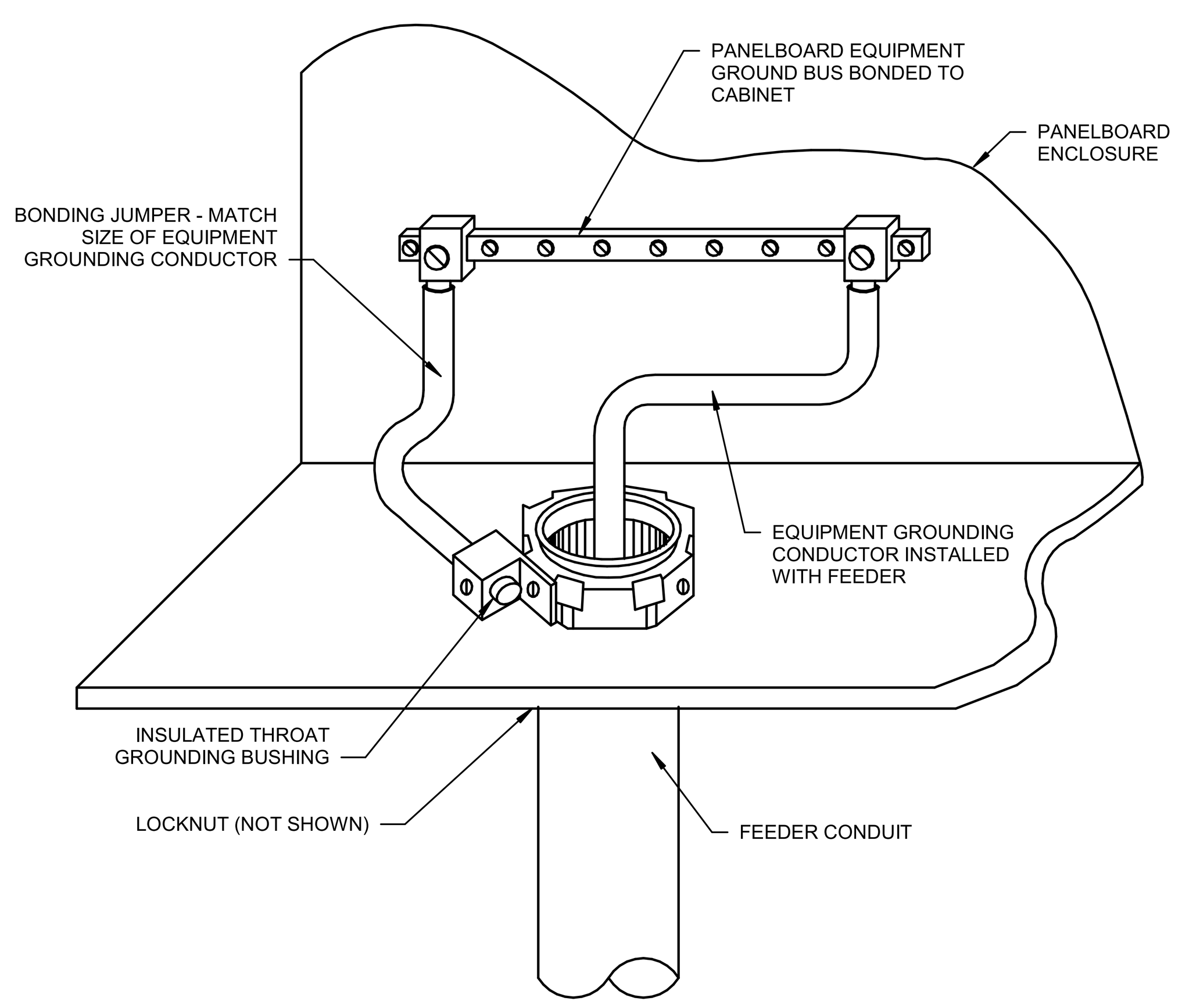
2C GROUNDING GRID/TRIANGLE DETAIL
NOT TO SCALE



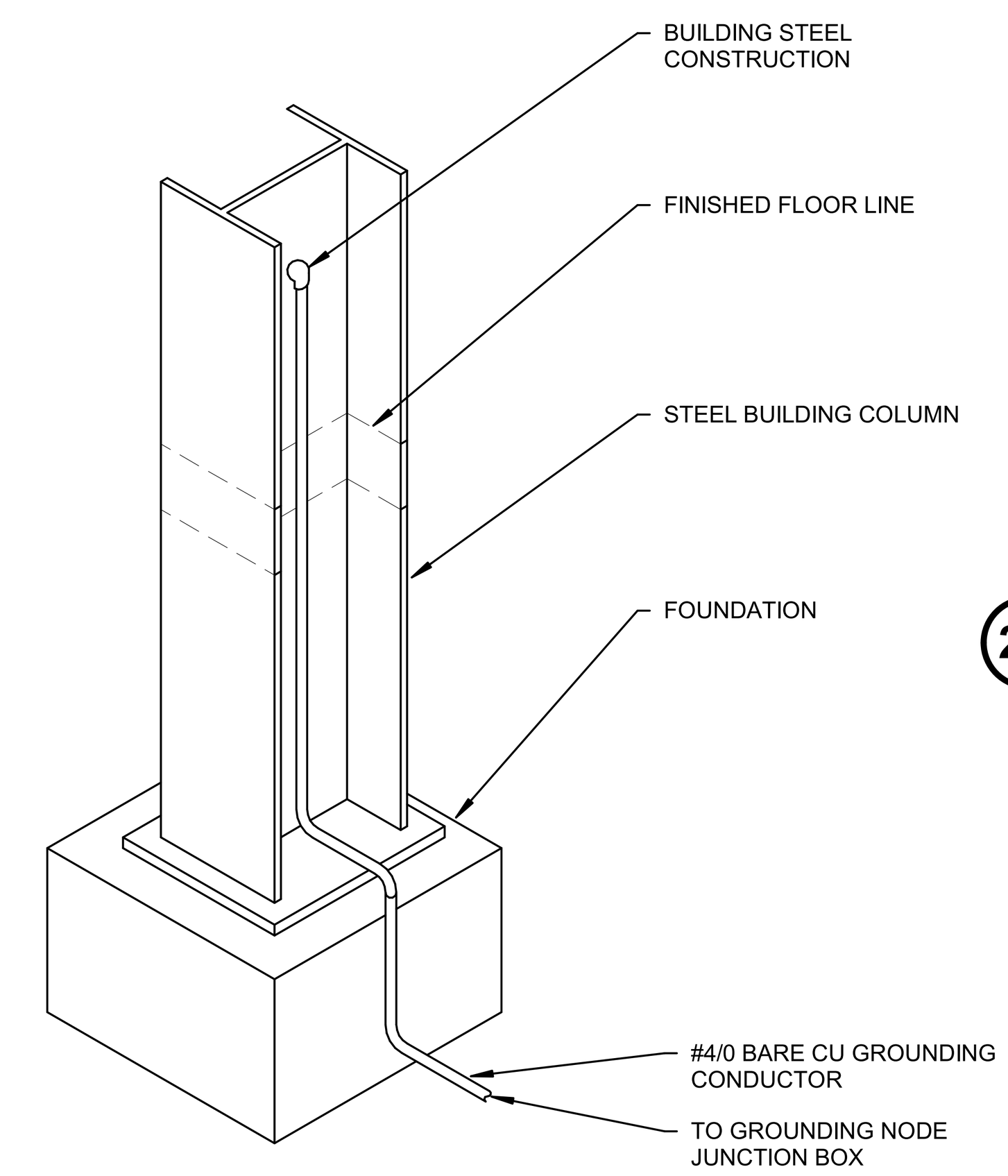
1C GROUNDING ROD TEST WELL DETAIL
NOT TO SCALE



5B GROUND ROD DETAIL
NOT TO SCALE

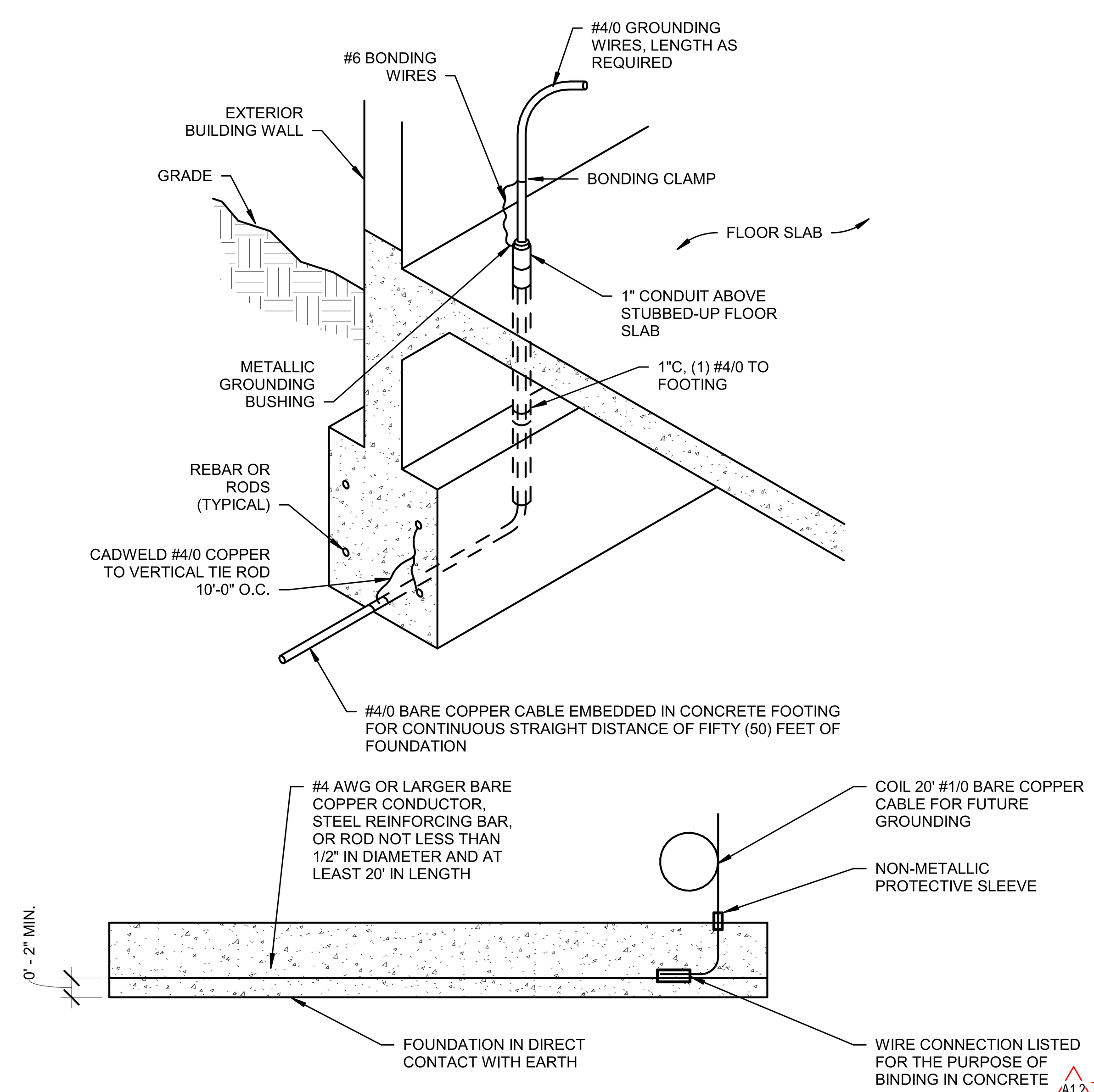


4B PANELBOARD BONDING DETAIL
NOT TO SCALE



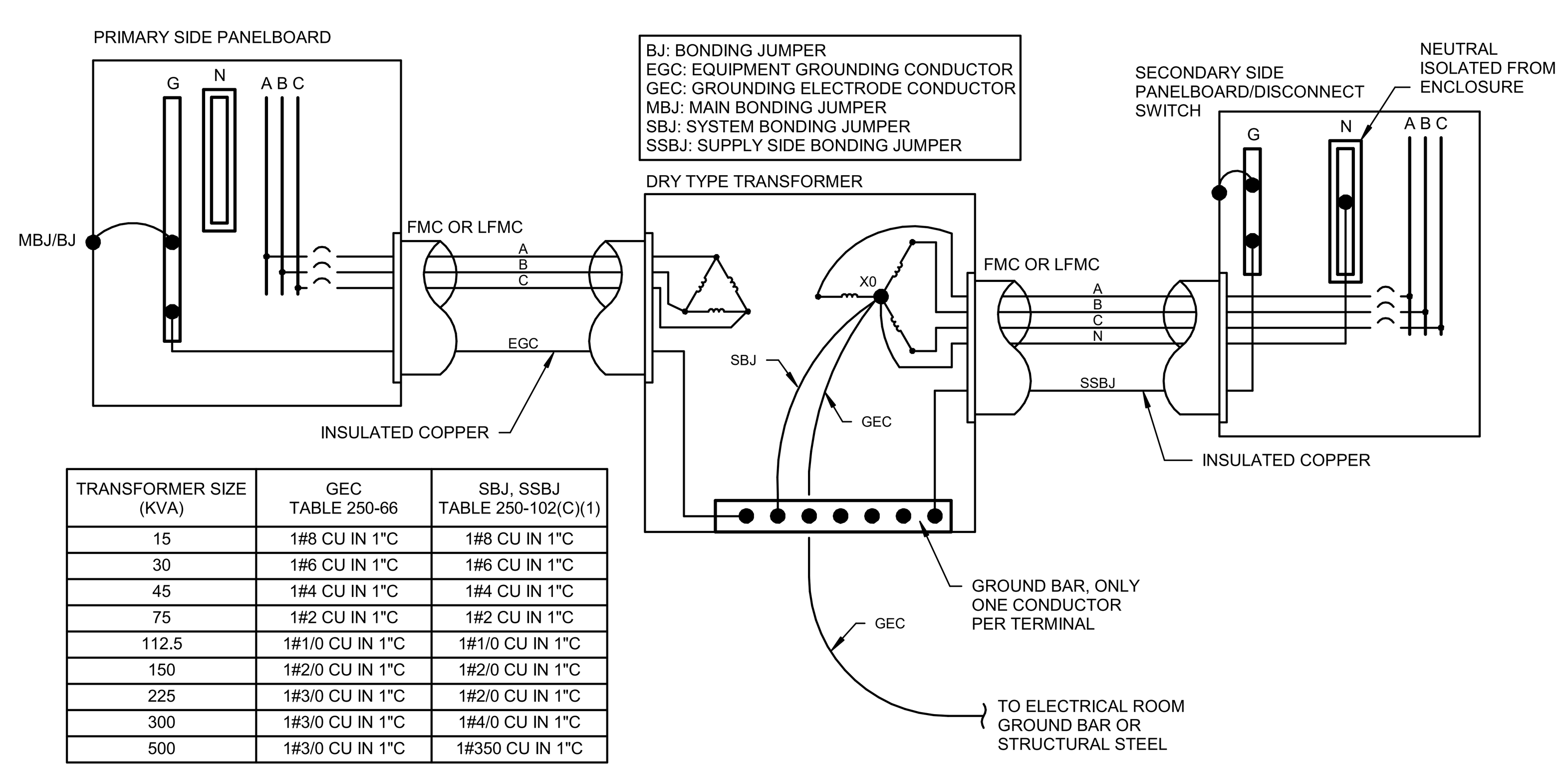
NOTES:
1. BUILDING STEEL CONNECTION SHALL BE EXOTHERMIC WELD. CLEAN SURFACE TO BRIGHT METAL BEFORE CONNECTION AND RESTORE TO ORIGINAL FINISH AFTER MAKING CONNECTION
2. BUILDING STEEL CONNECTION SHALL BE LOCATED ABOVE THE FINISHED FLOOR

3B STRUCTURAL STEEL GROUNDING DETAIL
NOT TO SCALE



NOTE:
PROVIDE ENCASED GROUNDING ELECTRODE IN NEW SLAB.

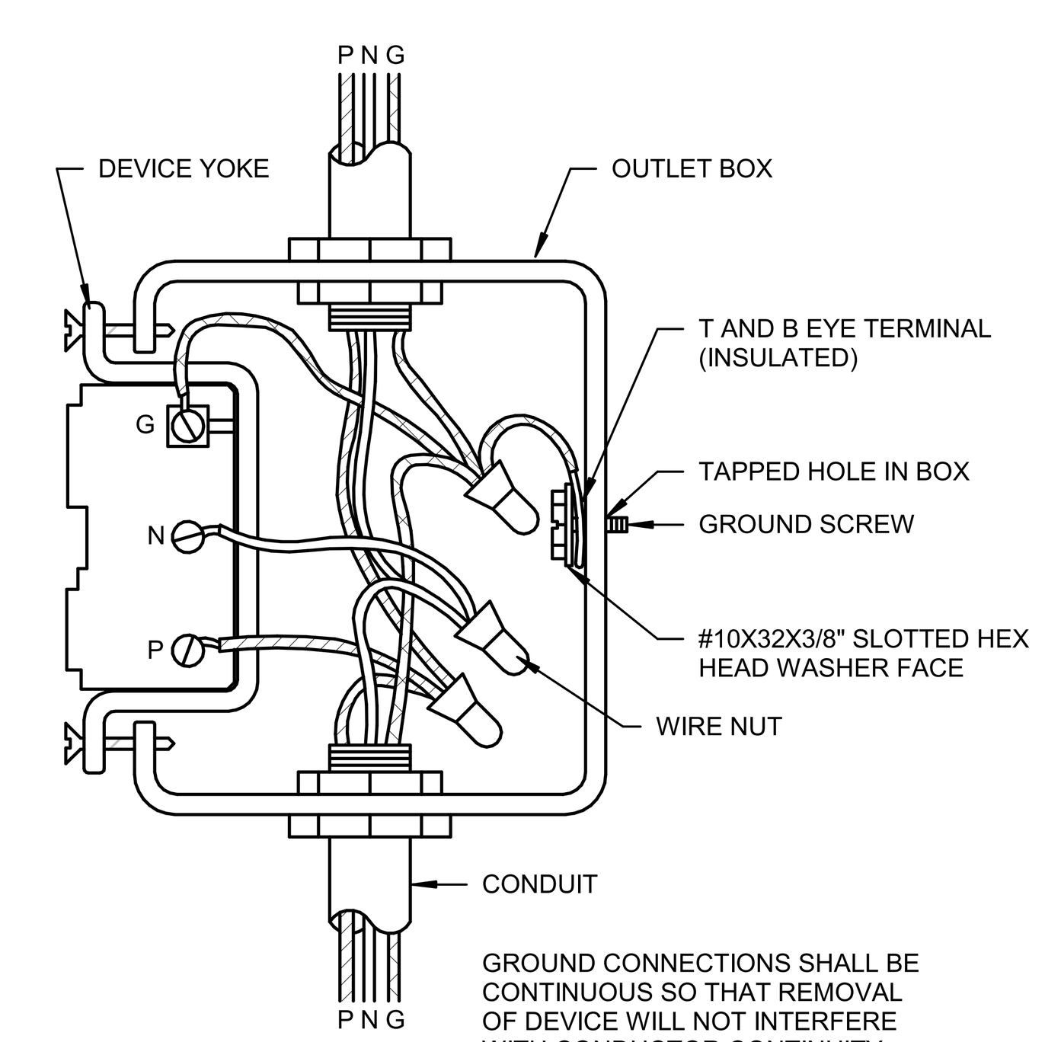
1A UFER GROUNDING DETAIL
NOT TO SCALE



TRANSFORMER SIZE (KVA)	GEC TABLE 250-66	SBJ, SSBJ TABLE 250-102(C)(1)
15	1#8 CU IN 1"C	1#8 CU IN 1"C
30	1#6 CU IN 1"C	1#6 CU IN 1"C
45	1#4 CU IN 1"C	1#4 CU IN 1"C
75	1#2 CU IN 1"C	1#2 CU IN 1"C
112.5	1#1/0 CU IN 1"C	1#1/0 CU IN 1"C
150	1#2/0 CU IN 1"C	1#2/0 CU IN 1"C
225	1#3/0 CU IN 1"C	1#2/0 CU IN 1"C
300	1#3/0 CU IN 1"C	1#4/0 CU IN 1"C
500	1#3/0 CU IN 1"C	1#350 CU IN 1"C

GENERAL NOTE:
THE INTENT OF THIS DETAIL IS TO SHOW THE GROUNDING, BONDING AND CONNECTIONS OF TYPICAL DRY TYPE TRANSFORMERS ON THIS PROJECT. FOR ITEMS NOT INDICATED, REFER TO SPECIFICATIONS AND/OR DRAWINGS FOR QUANTITIES AND CONDUCTOR SIZE AND MATERIAL.

4A DRY TYPE TRANSFORMER GROUNDING DETAIL
NOT TO SCALE



3A DEVICE GROUNDING DETAIL
NOT TO SCALE

6 5 4 3 2 1

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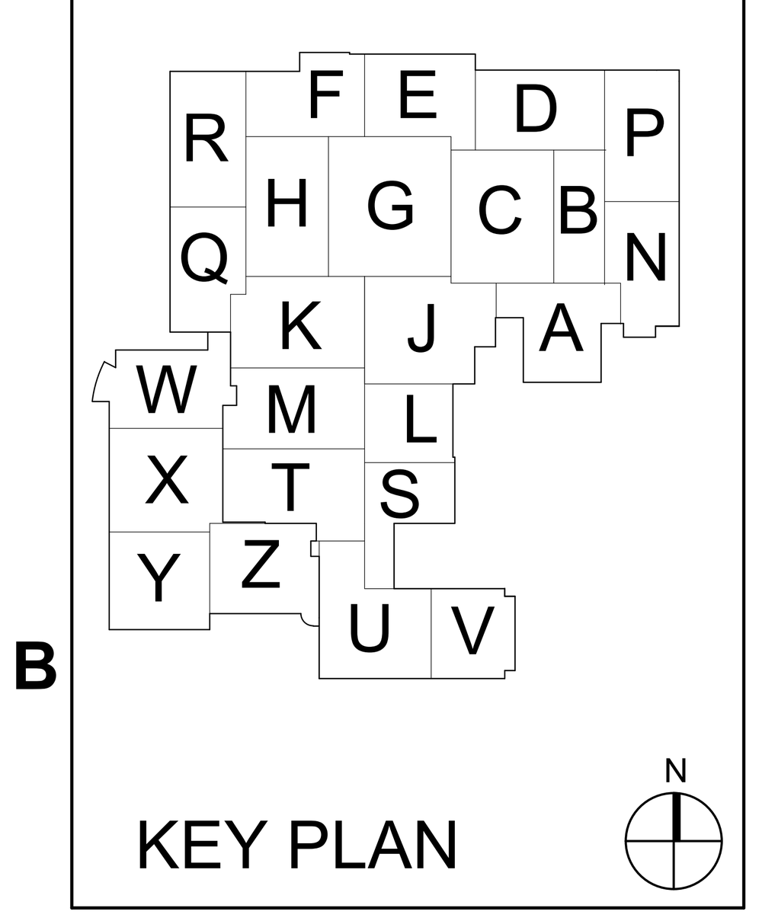
Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

Sarah K Hempstead

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

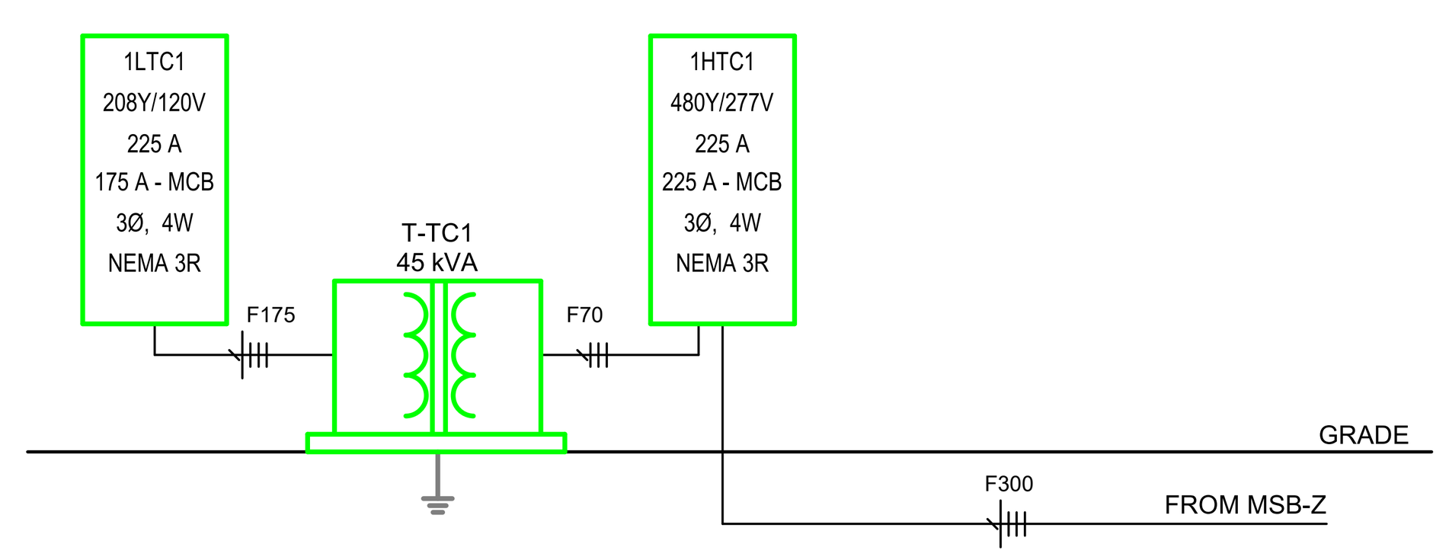
M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

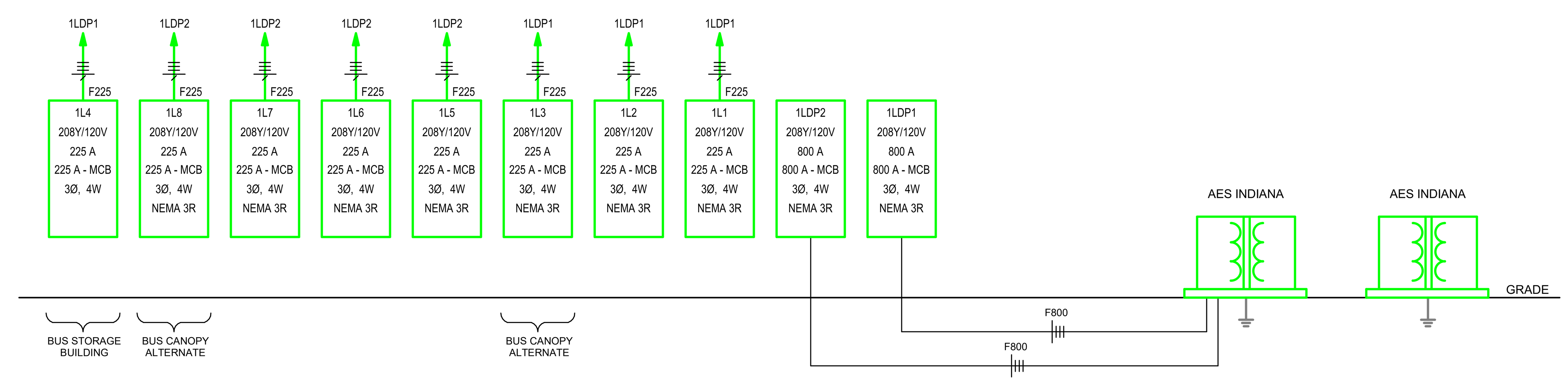
DETAILS

E-504.2

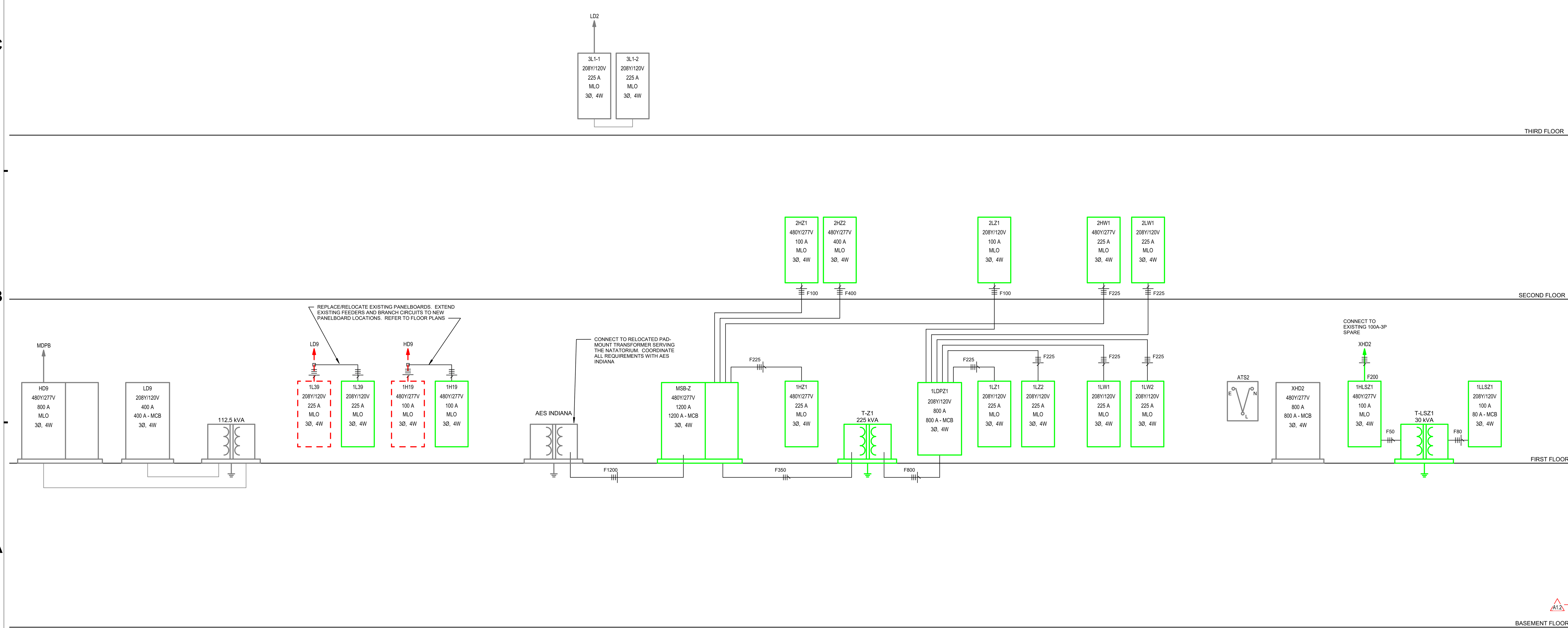
FEEDER & BRANCH CIRCUIT SCHEDULE (COPPER)								
	CONDUCTOR SIZE PER CONDUIT		CONDUIT SIZE & QUANTITY					
FEEDER/BRANCH CIRCUIT LABEL	PHASE & NEUTRAL	EQUIP/SERV GROUND	1P,1N,1G 2P,1G	2P,1N,1G 3P,1G	3P,1N,1G 3P,1N	3P,2N,1G	3P,3N,1G	3P,1N,2G
F20	12	12	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F30	10	10	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
F40	8	10	3/4"	3/4"	1"	1"	1"	1"
F50	6	10	1"	1"	1"	1-1/4"	1-1/4"	1"
F60	4	10	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
F70	4	8	1"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/4"
F80	3	8	1"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/4"
F90	2	8	1"	1-1/4"	1-1/2"	1-1/2	2"	1-1/2"
F100	1	8	1-1/4"	1-1/2"	1-1/2"	2"	2"	2"
F110	1	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F125	1/0	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F150	1/0	6	1-1/4"	1-1/2"	2"	2"	2-1/2"	2"
F175	2/0	6	1-1/2"	2"	2"	2-1/2"	2-1/2"	2"
F200	3/0	6	1-1/2"	2"	2"	2-1/2"	3"	2-1/2"
F225	4/0	4	2"	2"	2-1/2"	3"		2-1/2"
F250	250	4	2"	2-1/2"	3"	3"		3"
F300	350	4	2"	2-1/2"	3"	3-1/2"		3"
F350	500	3	2-1/2"	3"	3-1/2"	4"		3-1/2"
F400	3/0	3	(2) 1-1/2"	(2) 2"	(2) 2-1/2"	(2) 2-1/2"		(2) 2-1/2"
F450	4/0	2	(2) 2"	(2) 2"	(2) 2-1/2"	(2) 3"		(2) 2-1/2"
F500	250	2	(2) 2"	(2) 2-1/2"	(2) 3"	(2) 3"		(2) 3"
F600	350	1	(2) 2-1/2"	(2) 3"	(2) 3"	(2) 3-1/2"		(2) 3"
F700	500	1/0	(2) 2-1/2"	(2) 3"	(2) 3-1/2"	(2) 4"		(2) 3-1/2"
F800	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"		(3) 3"
F900	350	2/0	(3) 2-1/2"	(3) 3"	(3) 3"	(3) 3-1/2"		
F1000	500	2/0	(3) 2-1/2"	(3) 3"	(3) 3-1/2"	(3) 4"		
F1200	350	3/0	(4) 2-1/2"	(4) 3"	(4) 3"	(4) 3-1/2"		
F1600	500	4/0	(5) 3"	(5) 3"	(5) 3-1/2"	(5) 4"		
F2000	500	250	(6) 3"	(6) 3"	(6) 3-1/2"	(6) 4"		
F2500	500	350	(7) 4"	(7) 3-1/2"	(7) 3-1/2"	(7) 4"		
F3000	500	500	(8) 4"		(8) 4"	(8) 4"		



4C RISER DIAGRAM - RISER DIAGRAM - TENNIS COURTS
NOT TO SCALE



1C RISER DIAGRAM - CENTRALIZED BUS PARKING LOT
NOT TO SCALE



1A RISER DIAGRAM - PHASE 2
NOT TO SCALE

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SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

RISER DIAGRAM

E-601.2

GENERAL LIGHT FIXTURE SCHEDULE NOTES

#	NOTES
A	REFER TO LIGHT FIXTURE SCHEDULE AND REFLECTED CEILING PLANS FOR MOUNTING REQUIREMENTS, CEILING TYPES, AND FINAL LOCATIONS. PROVIDE APPROPRIATE MOUNTING TRIM REQUIRED FOR CEILING TYPE.
B	PROVIDE VIBRATION DAMPERS FOR ALL ALUMINUM & STEEL POLES 20'-0" AND ABOVE.
C	PROVIDE SELF-DIAGNOSTICS AND SELF-TESTING FOR ALL LIFE SAFETY FIXTURES (EXIT FIXTURES, WALL PACKS, INVERTERS, ETC.)

A1.2

265119/265619/26213.1 - INTERIOR/EXTERIOR/EMERGENCY & EXIT LIGHT FIXTURES SCHEDULE

LABEL	DESCRIPTION	VOLTAGE	SOURCE TYPE	LUMENS	WATTS	CCT	MOUNTING	LENS/REFLECTOR	CERTIFICATIONS	ACCEPTABLE MANUFACTURERS	LABEL
L1	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. MEDIUM DISTRIBUTION (50°). 0-10V DIMMING.	120/277 V	LED	1,000 LM	11 W	4000 K	RECESSED IN EXTERIOR SOFFIT	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LTR-4RD GOTHAM EVO	L1
L2	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. MEDIUM DISTRIBUTION (50°). 0-10V DIMMING.	120/277 V	LED	1,000 LM	11 W	4000 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LTR-4RD GOTHAM EVO	L2
L3	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. MEDIUM DISTRIBUTION (50°). 0-10V DIMMING.	120/277 V	LED	1,500 LM	18 W	4000 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LTR-4RD GOTHAM EVO	L3
L4	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. MEDIUM DISTRIBUTION (50°). 0-10V DIMMING.	120/277 V	LED	4,000 LM	42 W	4000 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LF4SL GOTHAM EVO	L4
L5	1X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	3,000 LM	27 W	4000 K	RECESSED	WHITE FROST ACRYLIC	DLC	METALUX 14FP COLUMBIA CFP14 LITHONIA EPANL14	L5
L6	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	4,400 LM	47 W	4000 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL24	L6
L7	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	5,500 LM	63 W	4000 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL24	L7
L8	2X4 LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	5,500 LM	63 W	4000 K	RECESSED IN DRYWALL	WHITE FROST ACRYLIC	DLC	METALUX 24FP COLUMBIA CFP24 LITHONIA EPANL24	L8
L9	3" LED GIMBAL RECESSED FIXTURE. ALUMINUM BODY WITH ADJUSTABLE GIMBLE. PROVIDE OUTLET BOX AS REQUIRED FOR COMPLETE FLOOR INSTALLATION.	120/277 V	LED	710 LM	7 W	4000 K	RECESSED IN FLOOR	45 DEGREE ADJUSTABLE LENS	ES	LITELINE RA3-7G-40K HALO RA LITHONIA 4JBK	L9
L10	2X4 ARCHITECTURAL LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING.	120/277 V	LED	4,900 LM	41 W	4000 K	RECESSED IN GRID	SMOOTH FROSTED ACRYLIC LENS	DLC	METALUX 24CZSB COLUMBIA RLA24 LITHONIA 2BLTBA4	L10
L11	2X4 ARCHITECTURAL LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING.	120/277 V	LED	5,600 LM	46 W	4000 K	RECESSED	SMOOTH FROSTED ACRYLIC LENS	DLC	METALUX 24CZSB COLUMBIA RLA24 LITHONIA 2BLTBA4	L11
L12	2X4 ARCHITECTURAL LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING.	120/277 V	LED	7,000 LM	64 W	4000 K	RECESSED	SMOOTH FROSTED ACRYLIC LENS	DLC	METALUX 24CZSB COLUMBIA RLA24 LITHONIA 2BLTBA4	L12
L13	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	3,000 LM	27 W	4000 K	SURFACE MOUNTED	SEMI-FROSTED CURVED LENS	DLC	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L13
L14	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	3,000 LM	27 W	4000 K	SURFACE/WALL	SEMI-FROSTED CURVED LENS	DLC	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L14
L15	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	5,000 LM	45 W	4000 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED CURVED LENS	DLC	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L15
L17	4' LED VAPORTIGHT FIXTURE. FIBERGLASS HOUSING. U.L. LISTED WET LOCATION. INTEGRAL BATTERY INVERTER.	120/277 V	LED	4,000 LM	38 W	4000 K	SURFACE/CEILING	IMPACT RESISTANT, GASKETED PRISMATIC LENS	N/A	METALUX 4VT2 COLUMBIA LXEM4 LITHONIA FEM LED	L17
L18	15" X 18" LED HIGHBAY. WHITE ALUMINUM HOUSING. WIDE DISTRIBUTION. 0-10V DIMMING.	120/277 V	LED	22,600 LM	215 W	4000 K	CABLE MOUNTED WITH SEPARATE SAFETY CABLE	HIGH IMPACT POLYCARBONATE LENS	DLC	METALUX VHB COLUMBIA PEL2 LITHONIA CHPB	L18
L19	4" WIDE EXTRUDED ALUMINUM LED DIRECT SUSPENDED. 0-10V DIMMING. FLUSH LENS. REFER TO LIGHTING PLANS FOR LENGTH.	120/277 V	LED	1,000 LM/FT	184 W	4000 K	SUSPENDED	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS FINELITE HP4 PINNACLE EDGE	L19
L20	4" WIDE EXTRUDED ALUMINUM LED DIRECT SUSPENDED. 0-10V DIMMING. FLUSH LENS. REFER TO LIGHTING PLANS FOR LENGTH.	120/277 V	LED	1,250 LM/FT		4000 K	SUSPENDED	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS FINELITE HP4 PINNACLE EDGE	L20
L21	4" WIDE EXTRUDED ALUMINUM LED DIRECT SUSPENDED. 0-10V DIMMING. FLUSH LENS. REFER TO LIGHTING PLANS FOR LENGTH.	120/277 V	LED	875 LM/FT	429 W	4000 K	SUSPENDED	FLUSH SATIN LENS	DLC	FOCAL POINT FSM4LS FINELITE HP4 PINNACLE EDGE	L21
L22	LED WALL LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	4,300 LM	50 W	4000 K	WALL MOUNTED	TYPE IV DISTRIBUTION	N/A	MCGRAW-EDISON ISS SPAULDING QSP LITHONIA WSQ	L22
L23	8" ROUND LED CYLINDER. DIE-CAST ALUMINUM HOUSING. ASYMMETRIC DISTRIBUTION. STAINLESS STEEL HARDWARE. WET LABEL. CUSTOM FINISH DETERMINED BY A/E.	120/277 V	LED	2,566 LM	29 W	4000 K	SURFACE MOUNTED	IMPACT RESISTANT CLEAR LENS	N/A	LIGMAN LIGHTING UTA-80552-29W-AS-W40 FC LIGHTING FCC8GA LUMINIS SY810	L23
L24	8" ROUND LED CYLINDER. DIE-CAST ALUMINUM HOUSING. ASYMMETRIC DISTRIBUTION. STAINLESS STEEL HARDWARE. WET LABEL. CUSTOM FINISH DETERMINED BY A/E.	120/277 V	LED	3,418 LM	42 W	4000 K	SURFACE MOUNTED	IMPACT RESISTANT CLEAR LENS	N/A	LIGMAN LIGHTING UTA-80553-42W-AS-W40 FC LIGHTING FCC8GA LUMINIS SY810	L24
L25	LED LATTICE GRID SYSTEM. PROVIDE ALL LED'S, SUPPORTING HARDWARE, ENGINEERING FOR LAYOUT, CONTRACTOR INSTRUCTIONS, ETC. FOR A COMPLETE OPERATIONAL SYSTEM.	120/277 V	LED			4000 K	SUSPENDED/ATTACHED TO STRUCTURE	N/A	N/A	WHITE BOX LIGHTING DESIGN - TO BE DETERMINED. PROVIDE AN ALLOWANCE OF $90,000 FOR MATERIAL ONLY, ADD LABOR REQUIRED FOR INSTALLATION.	L25
S1	LED SITE FLOOD. SINGLE-PIECE ALUMINUM HOUSING. KNUCKLE (10 DEGREE ADJUSTABLE FITTER). U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (2) FIXTURES PER POLE, 180° APART. WATTAGE AND LUMENS LISTED ARE PER FIXTURE.	480 V	LED	42,000 LM	380 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	WIDE FLOOD DISTRIBUTION	DLC	BEACON MATRIX AF MAF-148L-380-5K7 McGRAW-EDISON GLEON FLOOD LITHONIA RSXF4	S1
S2	LED DECORATIVE SITE FIXTURE. 5" DIAMETER FLUTED POLE,.188" WALL THICKNESS, 6061-T6 STRUCTURAL GRADE ALUMINUM. POLE WELDED FOR SINGLE UNIT CONSTRUCTION. 22" DIAMETER HEXAGONAL BASE, 1" FLOOR THICKNESS, 4 ANCHOR BOLTS AND ONE GROUND LUG. BANNER ARMS SET FOR 24" X 30" BANNER.	480 V	LED	9,470 LM	120 W	4000 K	16' POLE, BASE BY DIVISION 26 CONTRACTOR	ACRYLIC REFLECTOR TYPE II DISTRIBUTION	N/A	STERNBERG PT-1130A-5P-24L40T2-MDL018 5400 HAMILTON POLE PROVIDE AN ALLOWANCE OF $5.000 FOR MATERIAL ONLY, ADD LABOR REQUIRED FOR INSTALLATION.	S2
S3	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD.	480 V	LED	11,500 LM	270 W	4000 K	16' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE II DISTRIBUTION; ZERO UPLIGHT	DLC	McGRAW-EDISON GLEON LED BEACON VPS LITHONIA DSX1 LED	S3
S4	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD. WITH HOUSESIDE SHIELD	480 V	LED	27,000 LM	270 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE II DISTRIBUTION; ZERO UPLIGHT	DLC	McGRAW-EDISON GLEON LED BEACON VPS LITHONIA DSX1 LED	S4
S5	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD.	480 V	LED	32,500 LM	270 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE III DISTRIBUTION; ZERO UPLIGHT	DLC	McGRAW-EDISON GLEON LED BEACON VPS LITHONIA DSX1 LED	S5
S6	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (2) HEADS, 180° APART.	480 V	LED	32,500 LM PER FIXTURE	540 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE III DISTRIBUTION; ZERO UPLIGHT	DLC	McGRAW-EDISON GLEON LED BEACON VPS LITHONIA DSX LED	S6
S7	LED WALL LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS. PROVIDE FIXTURE TYPE ONLY IN BASE BID. DELETE FIXTURE TYPE IN CANOPY ALTERNATE.	120/277 V	LED	26,000 LM	241 W	4000 K	WALL MOUNTED	TYPE IV DISTRIBUTION	N/A	MCGRAW-EDISON ISS SPAULDING QSP LITHONIA WSQ	S7
S8	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (1) HEAD.	480 V	LED	32,500 LM	270 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE IV DISTRIBUTION; ZERO UPLIGHT	DLC	McGRAW-EDISON GLEON LED BEACON VPS LITHONIA DSX1 LED	S8
S9	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (2) HEADS, 180° APART. PROVIDE FIXTURE TYPE IN BASE BID WITH (2) FIXTURES. DELETE (1) FIXTURE IN CANOPY ALTERNATE AND PROVIDE ONLY THE EAST FIXTURE.	120 V	LED	32,500 LM PER FIXTURE	540 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE IV DISTRIBUTION; ZERO UPLIGHT	DLC	McGRAW-EDISON GLEON LED BEACON VPS LITHONIA DSX LED	S9
S10	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (2) HEADS, 180° APART.	480 V	LED	32,500 LM PER FIXTURE	540 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE IV DISTRIBUTION; ZERO UPLIGHT	DLC	McGRAW-EDISON GLEON LED BEACON VPS LITHONIA DSX LED	S10
S11	LED SITE FIXTURE. SINGLE-PIECE ALUMINUM HOUSING. ARM MOUNT. U.L. LISTED WET LOCATION. DARK BRONZE FINISH. ROUND, STRAIGHT, STEEL, POLE DESIGNED TO SUPPORT FIXTURE(S) IN 100 MPH WINDS WITH 1.3 GUST FACTOR. PRIMARY FUSES. FLAT LENS. SURGE PROTECTION. (4) HEADS, 90° APART.	480 V	LED	32,500 LM	1080 W	4000 K	30' POLE, BASE BY DIVISION 26 CONTRACTOR	TYPE IV DISTRIBUTION; ZERO UPLIGHT	DLC	McGRAW-EDISON GLEON LED BEACON VPS LITHONIA DSX1 LED	S11
S12	LED 12" IN-GRADE FIXTURE, POLYMER HOUSING, ALUMINUM OPTICS, DRIVER COMPARTMENT, SILICON GASKETED LENS, NON-DIMMING, DARK BRONZE DOOR FINISH. UL WET LABEL.	120/277 V	LED	2,500 LM	36 W	4000 K	IN GRADE	CROWNED CLEAR TEMPERED GLASS LENS NARROW SPOT DISTRIBUTION	N/A	VISTA 1188 HYDREL M9700C KIM LTV8FF	S12
X1C1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. AC ONLY.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL-CEILING	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X1C1
X1W1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. AC ONLY	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL-WALL	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X1W1
X1W2	VANDAL PROOF LED EXIT LIGHT, DIE-CAST ALUMINUM HOUSING, BLACK FINISH. SINGLE FACE. STENCIL FACE, RED LETTERS. AC ONLY	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL-WALL	VANDAL-RESISTANT POLYCARBONATE SHIELD WITH TAMPERPROOF SCREWS	N/A	SURE-LITES UX DUAL-LITE SEWL LITHONIA LV	X1W2

A1.2

262913.2 - LIGHTING CONTACTORS SCHEDULE

LABEL	LOCATION NUMBER	LOCATION NAME	EQUIPMENT RATINGS VOLTAGE	AMPERAGE	POLES	NEMA ENCL	ACCESSORIES	COIL CIRCUIT VOLTAGE	PANEL	CIRCUIT	CONTROL	CIRCUIT(S) CONTROLLED	REMARKS
LC-1			600 V	30 A	6	NEMA 1	H-O-A PILOT LIGHT	120 V	1L4	1	PHOTOCELL LOCATED ON ROOF	1L4-1	TRANSPORTATION STORAGE BUILDING
LC-2			600 V	30 A	10	NEMA 3X	H-O-A PILOT LIGHT	120 V	1L1	33	PHOTOCELL LOCATED ON ROOF	1L1-39,1L1-41,1L2-37,1L2-39,1L3-21	BUS PARKING LOT
LC-3			600 V	30 A	10	NEMA 3X	H-O-A PILOT LIGHT	120 V	1L5	37	PHOTOCELL LOCATED ON ROOF	1L5-39,1L5-41,1L6-37,1L6-39,1L7-22,1L8-22	BUS PARKING LOT
LC-4			600 V	30 A	10	NEMA 1	H-O-A PILOT LIGHT	120 V			EXISTING CONTROLS	1H1-(62,64),(66,68),(70,72)	CONNECT TO EXISTING RC-2 CONTROLS AND COIL CIRCUIT IN BUS MAINT. BLDG
LC-R1	P112	Space	600 V	30 A	12	NEMA 1	H-O-A PILOT LIGHT DDC INTEGRATION	277 V	1H16	15	TEMPERATURE CONTROL SYSTEM	1H16-(17,19),(21,23),25	NORTH EXTERIOR/WEST EXTERIOR
LC-U1			600 V	30 A	12	NEMA 1	H-O-A PILOT LIGHT DDC INTEGRATION	277 V			TEMPERATURE CONTROL SYSTEM	HA-(61,63),(65,67,(69,71)	SOUTH PARKING LOT; CONNECT TO EXISTING CONTROLS AND COIL CIRCUIT IN ELEC ROOM
LC-Z1	P102	ELEC.	600 V	30 A	12	NEMA 1	H-O-A PILOT LIGHT DDC INTEGRATION	277 V	1HZ1	13	TEMPERATURE CONTROL SYSTEM	1HZ1-13,16,18,20,22,24,1HLSZ1-14	SOUTH EXTERIOR/WRESTLING ENTRANCE
LC-Z2	P102	ELEC.	600 V	30 A	12	NEMA 1	H-O-A PILOT LIGHT DDC INTEGRATION	277 V	1HZ1	13	TEMPERATURE CONTROL SYSTEM	1HZ1-15,17,19,21,23,25,27,29,31,1HLSZ1-12	WEST EXTERIOR/GYM ENTRANCE
LC-Z3	P102	ELEC.	600 V	30 A	12	NEMA 1	H-O-A PILOT LIGHT DDC INTEGRATION	277 V	1HZ1	13	TEMPERATURE CONTROL SYSTEM	1HZ1-(26,28),(30,32),(34,36)	SOUTH PARKING LOT LIGHTING

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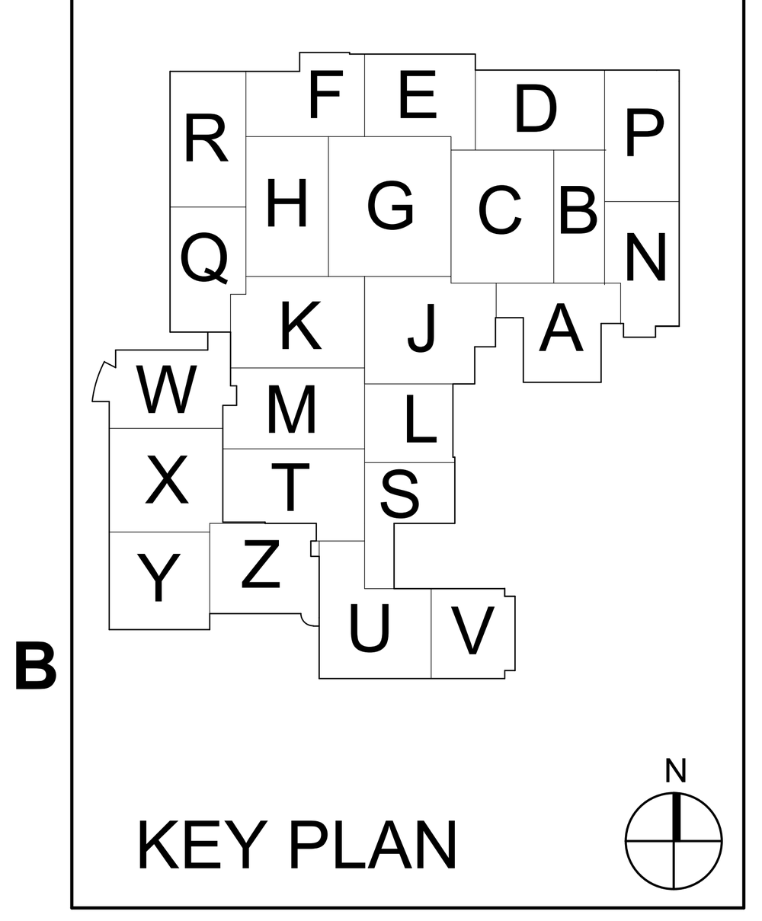
Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

LIGHTING FIXTURE SCHEDULE

E-603.2

262213.1 - LOW-VOLTAGE DISTRIBUTION TRANSFORMERS SCHEDULE																	
	LOCATION			EQUIPMENT RATINGS					VOLTAGE		CONNECTION		FEEDER SIZES		GROUNDING / BONDING		
LABEL	NUMBER	NAME	EQUIPMENT SERVED	KVA	PHASE	TYPE	MOUNT	NEMA ENCL	PRIMARY	SECONDARY	PRIMARY	SECONDARY	PRIMARY	SECONDARY	GEC	SBJ / SSBJ	REMARKS
T-LSZ1	P102	ELEC.	1LLSZ1	30	3	DRY	FLOOR	Type 2	480 V	208Y/120	DELTA	WYE	F50	F100	1#6GND, 1"C	1#6GND, 1"C	
T-TC1			1LTC1	45	3	DRY	FLOOR	Type 3R	480 V	208Y/120	DELTA	WYE	F70	F175	1#4GND, 1"C	1#4GND, 1"C	
T-Z1	P102	ELEC.	1LDPZ1	225	3	DRY	FLOOR	Type 2	480 V	208Y/120	DELTA	WYE	F400	F800	1#3/0GND, 1"C	1#2/0GND, 1"C	

A1.2

262816.1 - ENCLOSED SWITCHES & CIRCUIT BREAKERS SCHEDULE												
	LOCATION			EQUIPMENT RATINGS						ACCESSORIES		
LABEL	NUMBER	NAME	EQUIPMENT SERVED	VOLTAGE	POLES	AMPERAGE	FUSED	FUSE SIZE	NEMA ENCL	AUX. CONTACTS	SOLID NEUTRAL	REMARKS
DS-X1	E100	WEST GYM	GOAL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X2	E100	WEST GYM	GOAL HEIGHT ADJUSTER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X3	E100	WEST GYM	GOAL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X4	E100	WEST GYM	GOAL HEIGHT ADJUSTER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X5	E100	WEST GYM	GOAL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X6	E100	WEST GYM	GOAL HEIGHT ADJUSTER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X7	E100	WEST GYM	GOAL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X8	E100	WEST GYM	GOAL HEIGHT ADJUSTER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X9	E100	WEST GYM	GOAL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X10	E100	WEST GYM	GOAL HEIGHT ADJUSTER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X11	E100	WEST GYM	GOAL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X12	E100	WEST GYM	GOAL HEIGHT ADJUSTER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X13	E100	WEST GYM	GOAL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X14	E100	WEST GYM	GOAL HEIGHT ADJUSTER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X15	E100	WEST GYM	GOAL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X16	E100	WEST GYM	GOAL HEIGHT ADJUSTER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X17	E100	WEST GYM	GYM CURTAIN DIVIDER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X18	E100	WEST GYM	GYM CURTAIN DIVIDER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X19	E100	WEST GYM	GYM CURTAIN DIVIDER	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X20	E100	WEST GYM	VOLLEYBALL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X21	E100	WEST GYM	VOLLEYBALL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X22	E100	WEST GYM	VOLLEYBALL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X23	E100	WEST GYM	VOLLEYBALL HOIST	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X24	E100B	STOR	OVERHEAD DOOR	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X25	E100C	STOR	OVERHEAD DOOR	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X26	E100D	STOR	OVERHEAD DOOR	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X27	E100E	STOR	OVERHEAD DOOR	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-X28	E100	WEST GYM	OVERHEAD DOOR	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z1	N264	IDF	MSI-Z1	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	No	
DS-Z2	P102	ELEC.	MSI-Z2	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	No	
DS-Z3	P002	STOR	OVERHEAD DOOR	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z4	P002	STOR	OVERHEAD DOOR	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z5	P002	STOR	OVERHEAD DOOR	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z6	P002A	LAUNDRY	WASHER	240 V	3	30 A	Yes	20A	1	(1) N.O. / N.C.	No	
DS-Z7	P002A	LAUNDRY	DRYER	240 V	3	200 A	Yes	150A	1	(1) N.O. / N.C.	No	
DS-Z8	E100E	STOR	UH-Z1	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z9	E100E	STOR	UH-Z2	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z10	P002	STOR	UH-Z3	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z11	P002	STOR	UH-Z4	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z13	E203	MECHANICAL	UH-Z5	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z14	E203	MECHANICAL	UH-Z6	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z15	E203	MECHANICAL	UH-Z7	240 V	2	30 A	Yes	20A	1	(1) N.O. / N.C.	Yes	
DS-Z16			MSO-Z1	240 V	2	30 A	Yes	20A	3R	(1) N.O. / N.C.	No	
DS-Z17			MSO-Z2	240 V	2	30 A	Yes	20A	3R	(1) N.O. / N.C.	No	

262719.2 - MULTI-OUTLET ASSEMBLIES								
		ELECTRICAL REQUIREMENTS				TELECOM REQUIREMENTS		
LABEL	DESCRIPTION	P	N	G	POWER	DATA	AV	REMARKS
FB-1	6-GANG FLOOR BOX. ON-GRADE PAN.	1	1	1	(2) DUPLEX RECEPTACLES	(2) SCOREBOARD CONNECTORS; (2) DATA OUTLETS	(2) XLR PORTS	COORDINATE DATA OUTLETS AND A/V PORTS WITH T-SERIES DRAWINGS
FB-2	6-GANG FLOOR BOX. ON-GRADE PAN.	1	1	1	(2) DUPLEX RECEPTACLES	(2) SCOREBOARD CONNECTORS; (2) DATA OUTLETS	(2) XLR PORTS	COORDINATE DATA OUTLETS AND A/V PORTS WITH T-SERIES DRAWINGS
FB-3	6-GANG FLOOR BOX. ON-GRADE PAN.	1	1	1	(2) DUPLEX RECEPTACLES	(2) SCOREBOARD CONNECTORS; (2) DATA OUTLETS	(2) XLR PORTS	COORDINATE DATA OUTLETS AND A/V PORTS WITH T-SERIES DRAWINGS
FB-4	6-GANG FLOOR BOX. ON-GRADE PAN.	1	1	1	(2) DUPLEX RECEPTACLES	(2) SCOREBOARD CONNECTORS; (2) DATA OUTLETS	(2) XLR PORTS	COORDINATE DATA OUTLETS AND A/V PORTS WITH T-SERIES DRAWINGS

262913/262923.2 - ENCLOSED & VARIABLE-FREQUENCY MOTOR CONTROLLERS SCHEDULE														
	LOCATION			EQUIPMENT RATINGS					STARTER		DISCONNECT SWITCH			
LABEL	NUMBER	NAME	EQUIPMENT SERVED	VOLTAGE	PHASE	HP	FLA	NEMA ENCL	TYPE	NEMA SIZE	TYPE	FUSE SIZE	REMOTE CAPACITOR	REMARKS
MS-K1	P111	Space	EF-K1	120 V	1	1/6	4.4 A	-	1	-	-	-	-	
MS-M1	E102A	ELEC	EF-M1	120 V	1	1/4	5.8 A	-	1	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH MOTOR OVERLOADS.
MS-T1	N266A	STOR	EF-T1	120 V	1	1/6	4.4 A	-	1	-	-	-	-	
MS-W1	N679	MECH	AHU-W1 SF#1	480 V	3	10	14.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-W2	N679	MECH	AHU-W1 SF#2	480 V	3	10	14.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-W3	N679	MECH	AHU-W1 RF	480 V	3	7.5	11.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-W4	N679	MECH	CP-W1	120 V	1	1/2	9.8 A	-	1	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH MOTOR OVERLOADS.
MS-W5	E107	CONCESSIONS	EF-W1	120 V	1	1/4	5.8 A	-	1	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH MOTOR OVERLOADS.
MS-W6	N679	MECH	EF-W2	120 V	1	1/4	5.8 A	-	1	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH MOTOR OVERLOADS.
MS-Z1	E203	MECHANICAL	AHU-Z1 SF#1	480 V	3	10	14.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z2	E203	MECHANICAL	AHU-Z1 SF#2	480 V	3	10	14.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z3	E203	MECHANICAL	AHU-Z1 SF#3	480 V	3	10	14.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z4	E203	MECHANICAL	AHU-Z1 SF#4	480 V	3	10	14.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z5	E203	MECHANICAL	AHU-Z1 RF	480 V	3	15	21.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z6	E203	MECHANICAL	CP-Z1	120 V	1	1/2	9.8 A	-	1	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH MOTOR OVERLOADS.
MS-Z7	E203	MECHANICAL	AHU-Z2 SF#1	480 V	3	10	14.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z8	E203	MECHANICAL	AHU-Z2 SF#2	480 V	3	10	14.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z9	E203	MECHANICAL	AHU-Z2 SF#3	480 V	3	10	14.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z10	E203	MECHANICAL	AHU-Z2 SF#4	480 V	3	10	14.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z11	E203	MECHANICAL	AHU-Z2 RF	480 V	3	15	21.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z12	E203	MECHANICAL	CP-Z2	120 V	1	1/2	9.8 A	-	1	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH MOTOR OVERLOADS.
MS-Z13	E203	MECHANICAL	ERU-Z3 SF	480 V	3	15	21.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z14	E203	MECHANICAL	ERU-Z3 HEAT WHEEL	480 V	3	7.5	11.0 A	-	VFD	-	-	-	-	FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
MS-Z15	E203	MECHANICAL	CP-Z3	120 V	1	1/2	9.8 A	-	1	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH MOTOR OVERLOADS.
MS-Z16	P102	ELEC.	EF-Z1	120 V	1	1/4	5.8 A	-	1	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH MOTOR OVERLOADS.
MS-Z17	P102	ELEC.	EF-Z2	120 V	1	1/4	5.8 A	-	1	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH MOTOR OVERLOADS.
MS-Z18	E203	MECHANICAL	EF-Z3	120 V	1	1/2	9.8 A	-	1	-	-	-	-	FRACTIONAL HORSEPOWER RATED TOGGLE SWITCH WITH MOTOR OVERLOADS.

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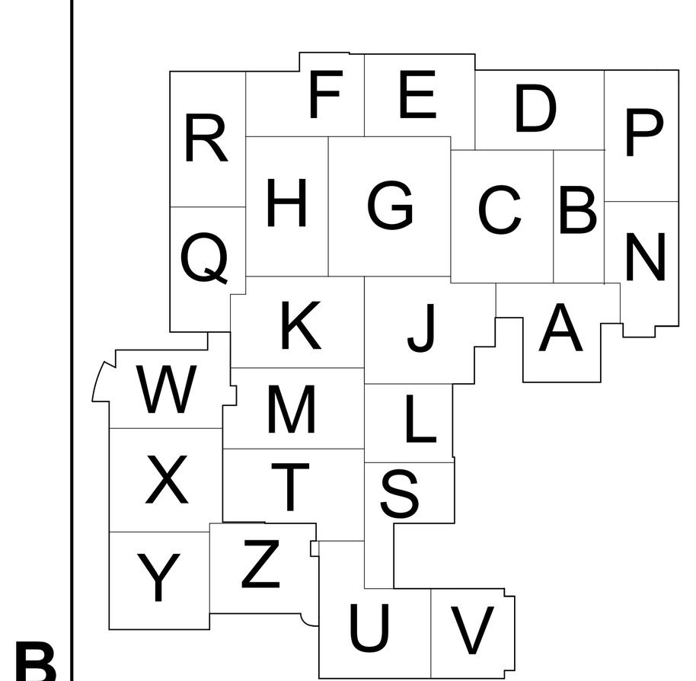

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

EQUIPMENT SCHEDULES

E-604.2

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 2HZ1
LOCATION: MECHANICAL E203
MOUNTING: SURFACE
SUPPLY FROM: MSB-Z
VOLTS: 480Y/277 V
PHASES: 3
WIRES: 4
AIC RATING: 35,000 A
MAINS RATING: 100 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	E100-ZONE 1	LIGHTING	20 A	1	3.01	3.44					1	20 A	LIGHTING	E100-ZONE 1	2	
	3	E100-ZONE 1	LIGHTING	20 A	1			3.44	3.66			1	20 A	LIGHTING	E100-ZONE 1	4	
	5	E100-ZONE 1	LIGHTING	20 A	1					3.44	3.44	1	20 A	LIGHTING	E100-ZONE 2	6	
	7	E100-ZONE 2	LIGHTING	20 A	1	3.44	3.44					1	20 A	LIGHTING	E100-ZONE 2	8	
	9	E100-ZONE 2	LIGHTING	20 A	1			3.44	2.58			1	20 A	LIGHTING	E100-ZONE 2	10	
--	11	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	12	--
--	13	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	16	--
--	17	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--

	A	B	C
TOTAL LOAD:	13.33 kVA	13.12 kVA	6.88 kVA
TOTAL AMPS:	52 A	51 A	25 A

TOTAL CONNECTED LOAD: 33.33 kVA
TOTAL CONNECTED AMPS: 52 A
TOTAL DEMAND LOAD: 41.66 kVA
TOTAL DEMAND AMPS: 50 A

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Lighting - Interior	33325 VA	125.00%	41656 VA

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 2HZ2
LOCATION: MECHANICAL E203
MOUNTING: SURFACE
SUPPLY FROM: MSB-Z
VOLTS: 480Y/277 V
PHASES: 3
WIRES: 4
AIC RATING: 35,000 A
MAINS RATING: 400 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	E203 - AHU-Z1	SF #1	30 A	3	3.88	3.88					3	30 A	SF #2	E203 - AHU-Z1	2	
--	3	--	--	--	--			3.88	3.88			--	--	--	--	4	--
--	5	--	--	--	--					3.88	3.88	--	--	--	--	6	--
	7	E203 - AHU-Z1	SF #3	30 A	3	3.88	3.88					3	30 A	SF #4	E203 - AHU-Z1	8	
--	9	--	--	--	--			3.88	3.88			--	--	--	--	10	--
--	11	--	--	--	--					3.88	3.88	--	--	--	--	12	--
	13	E203 - AHU-Z1	RF	40 A	3	5.82	3.88					3	30 A	SF #1	E203 - AHU-Z2	14	
--	15	--	--	--	--			5.82	3.88			--	--	--	--	16	--
--	17	--	--	--	--					5.82	3.88	--	--	--	--	18	--
	19	E203 - AHU-Z2	SF #2	30 A	3	3.88	3.88					3	30 A	SF #3	E203 - AHU-Z2	20	
--	21	--	--	--	--			3.88	3.88			--	--	--	--	22	--
--	23	--	--	--	--					3.88	3.88	--	--	--	--	24	--
	25	E203 - AHU-Z2	SF #4	30 A	3	3.88	5.82					3	40 A	RF	E203 - AHU-Z2	26	
--	27	--	--	--	--			3.88	5.82			--	--	--	--	28	--
--	29	--	--	--	--					3.88	5.82	--	--	--	--	30	--
	31	E203 - ERU-Z3	SF	40 A	3	5.82	3.05					3	20 A	HT WHL	E203 - ERU-Z3	32	
--	33	--	--	--	--			5.82	3.05			--	--	--	--	34	--
--	35	--	--	--	--					5.82	3.05	--	--	--	--	36	--
--	37	SPARE		20 A	3	0.00	0.00					3	30 A		SPARE	38	--
--	39	--	--	--	--			0.00	0.00			--	--	--	--	40	--
--	41	--	--	--	--					0.00	0.00	--	--	--	--	42	--
--	43	SPARE		40 A	3	0.00	0.00					1	20 A		SPARE	44	--
--	45	--	--	--	--			0.00	0.00			1	20 A		SPARE	46	--
--	47	--	--	--	--					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--

	A	B	C
TOTAL LOAD:	51.55 kVA	51.55 kVA	51.55 kVA
TOTAL AMPS:	186 A	186 A	186 A

TOTAL CONNECTED LOAD: 154.65 kVA
TOTAL CONNECTED AMPS: 186 A
TOTAL DEMAND LOAD: 154.65 kVA
TOTAL DEMAND AMPS: 186 A

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Mechanical - Motor	154650 VA	100.00%	154650 VA

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 2LZ1
LOCATION: MECHANICAL E203
MOUNTING: SURFACE
SUPPLY FROM: 1LDPZ1
VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4
AIC RATING: 22,000 A
MAINS RATING: 100 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	EXTERIOR PENTHOUSE	RECEPT	20 A	1	0.18	1.18					1	20 A	CP-Z1	E203	2	
	3	E203	RECEPT	20 A	1			0.90	1.18			1	20 A	CP-Z2	E203	4	
	5	E203	RECEPT	20 A	1					0.72	1.18	1	20 A	CP-Z3	E203	6	
	7	E203	UH'S	20 A	1	0.72	0.00					1	20 A		SPARE	8	--
	9	E203	EF-Z3	20 A	1			1.18	0.00			1	20 A		SPARE	10	--
	11	E203	TCP	20 A	1					1.44	0.00	1	20 A		SPARE	12	--
--	13	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	16	--
--	17	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--

	A	B	C
TOTAL LOAD:	2.08 kVA	3.26 kVA	3.34 kVA
TOTAL AMPS:	17 A	29 A	29 A

TOTAL CONNECTED LOAD: 8.68 kVA
TOTAL CONNECTED AMPS: 29 A
TOTAL DEMAND LOAD: 8.68 kVA
TOTAL DEMAND AMPS: 24 A

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
Yes	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Receptacle - General	1800 VA	100.00%	1800 VA
Mechanical - Motor	5440 VA	100.00%	5440 VA
Power - Continuous	1440 VA	100.00%	1440 VA

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1LZ1
LOCATION: ELEC. P102
MOUNTING: SURFACE
SUPPLY FROM: 1LDPZ1
VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4
AIC RATING: 22,000 A
MAINS RATING: 225 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	P000A	RECEPT	20 A	1	0.72	0.54					1	20 A	RECEPT	P000	2	
	3	P000A	RECEPT	20 A	1			0.36	0.72			1	20 A	RECEPT	P000, P001	4	
	5	P000A	RECEPT	20 A	1					0.54	0.36	1	20 A	RECEPT	EXTERIOR	6	
	7	P000A	RECEPT	20 A	1	0.54	1.00					1	20 A	EWC	P000	8	G
	9	P000A	G DSPLY	20 A	1			0.18	1.20			1	20 A	H DRY	P107	10	PG
	11	P102	RECEPT	20 A	1					0.18	1.20	1	20 A	H DRY	P107	12	PG
	13	N264	RECEPT	20 A	1	0.72	1.20					1	20 A	H DRY	P107	14	PG
	15	P103, P104, P105	RECEPT	20 A	1			0.54	1.20			1	20 A	H DRY	P108	16	PG
PG	17	P104	H DRY	20 A	1					1.20	1.20	1	20 A	H DRY	P108	18	PG
PG	19	P105	H DRY	20 A	1	1.20	1.20					1	20 A	H DRY	P108	20	PG
G	21	P104, P105	SENSOR	20 A	1			0.00	1.20			1	20 A	O/H DR	P002	22	
G	23	P107,P108	SENSOR	20 A	1					0.00	1.20	1	20 A	O/H DR	P002	24	
	25	P107, P108	RECEPT	20 A	1	0.36	1.20					1	20 A	O/H DR	P002	26	
	27	P109	RECEPT	20 A	1			0.72	0.54			1	20 A	RECEPT	P002	28	
	29	P109A	RECEPT	20 A	1					0.18	0.90	1	20 A	RECEPT	P002	30	
PG	31	P109A	H DRY	20 A	1	1.20	0.72					1	20 A	RECEPT	P100	32	
	33	P110	RECEPT	20 A	1			0.90	0.54			1	20 A	RECEPT	P100	34	
	35	P100A	RECEPT	20 A	1					0.18	0.36	1	20 A	A/V RACK	P100	36	
	37	P106, P106B	RECEPT	20 A	1	0.54	0.50					1	20 A	EWC	P100	38	
PG	39	P106B	H DRY	20 A	1			1.20	0.36			1	20 A	RECEPT	P002A	40	
PG	41	P106B	H DRY	20 A	1					1.20	0.48	1	20 A	UH'S	P002 A1.2	42	
G	43	P106B, P101B	SENSOR	20 A	1	0.00	0.70					1	20 A	EF-Z1	ROOF	44	
PG	45	P101, P101B	RECEPT	20 A	1			0.54	0.70			1	20 A	EF-Z2	ROOF	46	
PG	47	P101B	H DRY	20 A	1					1.20	1.00	1	20 A	CH'S	P107, P108	48	
PG	49	P101B	H DRY	20 A	1	1.20	0.54					1	20 A	RECEPT	ROOF	50	
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--

	A	B	C
TOTAL LOAD:	14.08 kVA	10.90 kVA	11.38 kVA
TOTAL AMPS:	118 A	91 A	95 A

TOTAL CONNECTED LOAD: 36.36 kVA
TOTAL CONNECTED AMPS: 118 A
TOTAL DEMAND LOAD: 34.22 kVA
TOTAL DEMAND AMPS: 95 A

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
Yes	FEED THROUGH LUGS (FTL)
No	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Receptacle - General	14280 VA	85.01%	12140 VA
Mechanical - Motor	22080 VA	100.00%	22080 VA

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1LZ2
LOCATION: ELEC. P102
MOUNTING: SURFACE
SUPPLY FROM: 1LDPZ1
VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4
AIC RATING: 22,000 A
MAINS RATING: 225 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	E100	RECEPT	20 A	1	0.90	0.90					1	20 A	RECEPT	E100	2	
	3	E100	RECEPT	20 A	1			0.90	0.90			1	20 A	RECEPT	E100	4	
	5	E100	RECEPT	20 A	1					1.08	0.90	1	20 A	RECEPT	E100	6	
	7	E100	FLR BOX	20 A	1	0.36	1.20					1	20 A	SCRBD	E100	8	
	9	E100	FLR BOX	20 A	1			0.36	1.20			1	20 A	SCRBD	E100	10	
	11	E100	FLR BOX	20 A	1					0.36	1.20	1	20 A	SCRBD	E100	12	
	13	E100	FLR BOX	20 A	1	0.36	1.20					1	20 A	SCRBD	E100	14	
	15	E100A	GYM PNL	30 A	1			1.44	1.20			1	20 A	O/H DR	E100B	16	
	17	E100A	GYM PNL	30 A	1					1.44	1.20	1	20 A	O/H DR	E100C	18	
	19	E100A	GYM PNL	30 A	1	1.44	1.20					1	20 A	O/H DR	E100D	20	
	21	E100A	GYM PNL	30 A	1			1.44	1.20			1	20 A	O/H DR	E100E	22	
	23	E100A	GYM PNL	30 A	1					1.44	1.20	1	20 A	O/H DR	E100	24	
	25	E100A	GYM PNL	30 A	1	1.44	0.48					3	20 A	MAT HST	E100	26	
	27	E100A, E100C, E100B	RECEPT	20 A	1			0.72	0.48			--	--	--	--	28	--
	29	E100A	AV RACK	20 A	1					1.25	0.48	--	--	--	--	30	--
	31	EXTERIOR	RECEPT	20 A	1	0.36	0.00					1	20 A		SPARE	32	--
	33	E100E	RECEPT	20 A	1			0.72	0.00			1	20 A		SPARE	34	--
	35	E100E	UH'S	20 A	1					0.48	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
--	43	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	44	--
--	45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--

	A	B	C
TOTAL LOAD:	9.84 kVA	10.56 kVA	11.03 kVA
TOTAL AMPS:	82 A	89 A	93 A

TOTAL CONNECTED LOAD: 29.99 kVA
TOTAL CONNECTED AMPS: 93 A
TOTAL DEMAND LOAD: 27.56 kVA
TOTAL DEMAND AMPS: 76 A

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
Yes	FEED THROUGH LUGS (FTL)
No	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Receptacle - General	14870 VA	83.62%	12435 VA
Mechanical - Motor	15120 VA	100.00%	15120 VA

NOTES:

SWITCHBOARD SCHEDULE

A1.2

SWITCHBOARD: MSB-Z
LOCATION: ELEC. P102
MOUNTING: FLOOR
SUPPLY FROM:
VOLTS: 480Y/277 V
PHASES: 3
WIRES: 4
AIC RATING: 65,000 A
MAINS RATING: 1200 A
MAINS TYPE: MCB
MCB RATING: 1200 A
MCB OPTIONS: Z

O	CKT NO.	CIRCUIT DESCRIPTION	P	FRAME SIZE	TRIP RATING	A	B	C	LOAD	REMARKS
	1	T-Z1	3	400 A	350 A	65.54	64.03	63.40	192.98	XFMR
	2	1HZ1	3	225 A	225 A	21.60	16.85	21.67	60.12	PANEL
	3	2HZ1	3	100 A	100 A	13.33	13.12	6.88	33.33	PANEL
	4	2HZ2	3	400 A	400 A	51.55	51.55	51.55	154.65	PANEL
	5	2HW1	3	225 A	225 A	10.81	10.81	10.81	32.43	PANEL
	6	1HTC1	3	225 A	225 A	7.20	6.00	6.00	19.20	PANEL
--	7	SPARE	3	--	225 A	--	--	--	0.00	
--	8	SPARE	3	--	225 A	--	--	--	0.00	
--	9	SPARE	3	--	100 A	--	--	--	0.00	
--	10	SPARE	3	--	100 A	--	--	--	0.00	
--	11	SPACE	--	--	--	--	--	--	0.00	--
--	12	SPACE	--	--	--	--	--	--	0.00	--
					TOTAL LOAD:	170.04 kVA	162.36 kVA	160.31 kVA		
					TOTAL AMPS:	615 A	587 A	579 A		

TOTAL CONNECTED LOAD: 491.26 kVA
TOTAL CONNECTED AMPS: 615 A
TOTAL DEMAND LOAD: 462.41 kVA
TOTAL DEMAND AMPS: 556 A

SWITCHBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Receptacle - General	103720 VA	54.82%	56860 VA
Kitchen Equipment -...	9600 VA	65.00%	6240 VA
Lighting - Interior	50224 VA	125.00%	62780 VA
Lighting - Exterior	35220 VA	125.00%	44025 VA
Mechanical - Motor	236620 VA	100.00%	236620 VA
Mechanical - Heating	48000 VA	100.00%	48000 VA
Power - Continuous	7880 VA	100.00%	7880 VA

Notes:
1. UL LISTED SERVICE ENTRANCE RATED.
2. PROVIDE INTEGRAL SPD.
3. PROVIDE CUSTOMER METERING PER SPECIFICATIONS.

BRANCH PANELBOARD SCHEDULE

A1.2

DESIGNATION: 1HZ1
LOCATION: ELEC. P102
MOUNTING: SURFACE
SUPPLY FROM: MSB-Z
VOLTS: 480Y/277 V
PHASES: 3
WIRES: 4
AIC RATING: 35,000 A
MAINS RATING: 225 A
MAINS TYPE: MLO

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	E100E, P002A, P002	LIGHTING	20 A	1	1.44	0.89					1	20 A	LIGHTING	N001, 167, 181	2	
	3	E000, E00X	LIGHTING	20 A	1			0.63	1.29			1	20 A	LIGHTING	E107, N273, N271	4	
	5	E103, E104, E105, E106	LIGHTING	20 A	1					3.08	0.50	1	20 A	LIGHTING	E100C, E100D, E100A, E100B	6	
	7	P000, N3061, N3060, P000A,...	LIGHTING	20 A	1	2.45	0.98					1	20 A	LIGHTING	P101, P106, P110, P109, P100A	8	
	9	E000, E002	LIGHTING	20 A	1			1.97	0.25			1	20 A	LIGHTING	P107, P108, P103	10	
	11	P100	LIGHTING	20 A	1					3.43	4.00	2	30 A	EUH	E101	12	
	13	EXTERIOR	LIGHTING	20 A	1	0.35	4.00					--	--	--	--	14	--
	15	EXTERIOR SIGNAGE	LIGHTING	20 A	1			1.50	1.28			1	20 A	LIGHTING	SOUTH LIGHT BOX	16	
	17	WEST CANOPY	LIGHTING	20 A	1					0.40	1.28	1	20 A	LIGHTING	SOUTH LIGHT BOX	18	
	19	WEST LIGHT BOX	LIGHTING	20 A	1	1.83	1.28					1	20 A	LIGHTING	SOUTH LIGHT BOX	20	
	21	WEST LIGHT BOX	LIGHTING	20 A	1			1.83	1.28			1	20 A	LIGHTING	SOUTH LIGHT BOX	22	
	23	WEST LIGHT BOX	LIGHTING	20 A	1					1.83	1.28	1	20 A	LIGHTING	SOUTH LIGHT BOX	24	
	25	WEST LIGHT BOX	LIGHTING	20 A	1	1.83	1.90					2	20 A	LIGHTING	SITE	26	
	27	WEST LIGHT BOX	LIGHTING	20 A	1			1.83	1.90			--	--	--	--	28	--
	29	WEST LIGHT BOX	LIGHTING	20 A	1					1.83	1.90	2	20 A	LIGHTING	EXTERIOR	30	
	31	WEST LIGHT BOX	LIGHTING	20 A	1	1.83	1.90					--	--	--	--	32	--
--	33	SPARE		20 A	1			0.00	2.16			2	20 A	LIGHTING	EXTERIOR	34	
--	35	SPARE		20 A	1					0.00	2.16	--	--	--	--	36	--
--	37	SPARE		20 A	1	0.00	0.95					2	20 A	LIGHTING	EXTERIOR	38	
--	39	SPARE		20 A	1			0.00	0.95			--	--	--	--	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
--	43	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	44	--
--	45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--

	A	B	C
TOTAL LOAD:	21.60 kVA	16.85 kVA	21.67 kVA
TOTAL AMPS:	81 A	61 A	81 A

TOTAL CONNECTED LOAD: 60.12 kVA
TOTAL CONNECTED AMPS: 81 A
TOTAL DEMAND LOAD: 73.15 kVA
TOTAL DEMAND AMPS: 88 A

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Lighting - Interior	16899 VA	125.00%	21123 VA
Lighting - Exterior	35220 VA	125.00%	44025 VA
Mechanical - Heating	8000 VA	100.00%	8000 VA

NOTES:
1. PROVIDE INTEGRAL SPD.

POWER DISTRIBUTION PANELBOARD SCHEDULE

DESIGNATION: 1LDPZ1
LOCATION: ELEC. P102
MOUNTING: SURFACE
SUPPLY FROM: T-Z1
VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4
AIC RATING: 22,000 A
MAINS RATING: 800 A
MAINS TYPE: MCB
MCB RATING: 800 A
MCB OPTIONS: Y

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	1LZ1	PANEL	225 A	3	14.08	9.84					3	225 A	PANEL	1LZ2	2	
--	3	--	--	--	--			10.90	10.56			--	--	--	--	4	--
--	5	--	--	--	--					11.38	11.03	--	--	--	--	6	--
	7	1LW1	PANEL	225 A	3	11.50	9.23					3	225 A	PANEL	1LW2	8	
--	9	--	--	--	--			9.96	7.56			--	--	--	--	10	--
--	11	--	--	--	--					10.80	7.56	--	--	--	--	12	--
	13	2LZ1	PANEL	100 A	3	2.08	4.84					3	225 A	PANEL	2LW1	14	
--	15	--	--	--	--			3.26	5.32			--	--	--	--	16	--
--	17	--	--	--	--					3.34	2.82	--	--	--	--	18	--
	19	P002A	DRYER	150 A	3	13.33	0.64					3	20 A	WASHER	P002A	20	
--	21	--	--	--	--			13.33	0.64			--	--	--	--	22	--
--	23	--	--	--	--					13.33	0.64	--	--	--	--	24	--
--	25	SPACE	--	--	--	0.00	0.00					3	225 A		SPARE	26	--
	27	P001	EUH-Z1	40 A	2			2.50	0.00			--	--	--	--	28	--
--	29	--	--	--	--					2.50	0.00	--	--	--	--	30	--
--	31	SPARE		100 A	3	0.00	0.00					3	100 A		SPARE	32	--
--	33	--	--	--	--			0.00	0.00			--	--	--	--	34	--
--	35	--	--	--	--					0.00	0.00	--	--	--	--	36	--
--	37	SPARE		20 A	3	0.00	0.00					3	20 A		SPARE	38	--
--	39	--	--	--	--			0.00	0.00			--	--	--	--	40	--
--	41	--	--	--	--					0.00	0.00	--	--	--	--	42	--

	A	B	C
TOTAL LOAD:	65.54 kVA	64.03 kVA	63.40 kVA
TOTAL AMPS:	547 A	534 A	528 A

TOTAL CONNECTED LOAD: 191.54 kVA
TOTAL CONNECTED AMPS: 547 A
TOTAL DEMAND LOAD: 150.92 kVA
TOTAL DEMAND AMPS: 419 A

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)	
C	CONTACTOR CONTROLLED
G	GFCI PROTECTED
P	HANDLE LOCKING DEVICE
S	SHUNT TRIP
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG
	FEED THROUGH LUGS (FTL)
	SUB FEED LUGS (SFL)

LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
Receptacle - General	84520 VA	55.92%	47260 VA
Kitchen Equipment -...	9600 VA	65.00%	6240 VA
Mechanical - Motor	49540 VA	100.00%	49540 VA
Mechanical - Heating	40000 VA	100.00%	40000 VA
Power - Continuous	7880 VA	100.00%	7880 VA

NOTES:

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD
NO. AR10400134

Sarah K Hempstead

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

PANELBOARD SCHEDULES - UNIT Z

E-605.2

RELOCATED BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1L39 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: ELEC E102A **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: LD9 **AIC RATING:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
--	1	EXISTING CIRCUIT		20 A	1	0.00	0.00					1	20 A		EXISTING CIRCUIT	2	--
--	3	EXISTING CIRCUIT		20 A	1			0.00	0.00			1	20 A		EXISTING CIRCUIT	4	--
--	5	EXISTING CIRCUIT		20 A	1					0.00	0.00	1	20 A		EXISTING CIRCUIT	6	--
--	7	EXISTING CIRCUIT		20 A	1	0.00	0.00					1	20 A		EXISTING CIRCUIT	8	--
--	9	EXISTING CIRCUIT		20 A	1			0.00	0.00			1	20 A		EXISTING CIRCUIT	10	--
--	11	EXISTING CIRCUIT		20 A	1					0.00	0.00	1	20 A		EXISTING CIRCUIT	12	--
PG	13	N269	H DRY	20 A	1	1.20	0.00					1	20 A		EXISTING CIRCUIT	14	--
PG	15	N269	H DRY	20 A	1			1.20	0.00			1	20 A		EXISTING CIRCUIT	16	--
PG	17	N269	H DRY	20 A	1					1.20	0.00	1	20 A	SENSOR	N269	18	G
PG	19	N270	H DRY	20 A	1	1.20	0.00					1	20 A	SENSOR	N270	20	G
PG	21	N270	H DRY	20 A	1			1.20	0.36			1	20 A	RECEPT	N268	22	
PG	23	N270	H DRY	20 A	1					1.20	1.20	1	20 A	REFRIG	N268	24	G
	25	N269,N270	RECEPT	20 A	1	0.36	1.20					1	20 A	ICE M/C	N268	26	G
G	27	N001	EWC	20 A	1			1.00	1.20			1	20 A	WHRLPL	N268	28	G
G	29	N266	EWC	20 A	1					0.50	0.54	1	20 A	RECEPT	N268	30	
	31	N266	RECEPT	20 A	1	0.72	0.72					1	20 A	RECEPT	N001	32	
	33	N266	TRDMLL	20 A	1			1.20	0.54			1	20 A	RECEPT	N001	34	
	35	N266	TRDMLL	20 A	1					1.20	0.54	1	20 A	RECEPT	N001	36	
	37	N266	TRDMLL	20 A	1	1.20	0.36					1	20 A	RECEPT	E102	38	
	39	N266	TRDMLL	20 A	1			1.20	0.80			1	20 A	CH'S	N269, N270	40	
	41	N266	TRDMLL	20 A	1					1.20	0.18	1	20 A	RECEPT	N266A	42	
	43	N266	TRDMLL	20 A	1	1.20	0.53					1	20 A	EF-T1	N266A	44	
	45	N266	TRDMLL	20 A	1			1.20	0.70			1	20 A	EF-M1	E102A	46	
	47	N266	TRDMLL	20 A	1					1.20	1.25	1	20 A	AV RACK	N267	48	
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--
--	55	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	56	--
--	57	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	58	--
--	59	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	60	--
--	61	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	62	--
--	63	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	64	--
--	65	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	66	--
					TOTAL LOAD:	8.69 kVA		10.60 kVA		10.21 kVA							
					TOTAL AMPS:	72 A		90 A		87 A							

TOTAL CONNECTED LOAD:	29.50 kVA		24.37 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	90 A		68 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	20270 VA	74.67%	15135 VA
C	CONTACTOR CONTROLLED	Mechanical - Motor	9230 VA	100.00%	9230 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. CIRCUIT POSITION FOR REFERENCE ONLY. REUSE EXISTING BREAKERS THAT COME AVAILABLE AFTER DEMOLITION.
2. RELOCATE EXISTING PANELBOARD AND BRANCH CIRCUITS AS INDICATED ON DRAWINGS.
3. FIELD VERIFY QUANTITY OF BRANCH CIRCUITS TO BE RELOCATED.
4. FIELD VERIFY FEEDER SIZE TO BE EXTENDED TO NEW LOCATION.

BRANCH PANELBOARD SCHEDULE

A1.2

DESIGNATION: 1HLSZ1 **VOLTS:** 480Y/277 V **MAINS RATING:** 100 A
LOCATION: ELEC. P102 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4 **MCB RATING:** 100 A
SUPPLY FROM: XHD2 **AIC RATING:** 35,000 A **MCB OPTIONS:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	T-LSZ1	XFMR	50 A	3	2.84	0.04					1	20 A	LIGHTING	E100	2	
--	3	--	--	--	--			3.78	4.52			1	20 A	LIGHTING	E100	4	
--	5	--	--	--	--					2.74	5.16	1	20 A	LIGHTING	E100	6	
	7	E000, E002, E101	LIGHTING	20 A	1	0.91	1.05					1	20 A	LIGHTING	E203, N2222, E100F	8	
	9	E000, E00X	LIGHTING	20 A	1			0.37	0.43			1	20 A	LIGHTING	N001	10	
	11	E107, N274	LIGHTING	20 A	1					0.47	0.11	1	20 A	LIGHTING	WEST CANOPY	12	
	13	P000, P001	LIGHTING	20 A	1	1.42	0.10					1	20 A	LIGHTING	SOUTH CANOPY	14	
	15	P105, P104, P107, P108, N264,...	LIGHTING	20 A	1			0.58								16	
	17	P109A, P106, P106B, P101,...	LIGHTING	20 A	1					1.88						18	
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
					TOTAL LOAD:	6.35 kVA		9.67 kVA		10.36 kVA							
					TOTAL AMPS:	23 A		37 A		39 A							

TOTAL CONNECTED LOAD:	26.38 kVA		29.59 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	39 A		36 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	600 VA	100.00%	600 VA
C	CONTACTOR CONTROLLED	Receptacle - Continuous	4600 VA	100.00%	4600 VA
G	GFCI PROTECTED	Lighting - Interior	16808 VA	125.00%	21010 VA
P	HANDLE LOCKING DEVICE	Lighting - Exterior	209 VA	125.00%	261 VA
S	SHUNT TRIP	Mechanical - Cooling	4160 VA	75.00%	3120 VA
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL SPD.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1LLSZ1 **VOLTS:** 208Y/120 V **MAINS RATING:** 100 A
LOCATION: ELEC. P102 **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4 **MCB RATING:** 80 A
SUPPLY FROM: T-LSZ1 **AIC RATING:** 10.000 A **MCB OPTIONS:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	N264	SEC. PNL	20 A	1	0.60	1.20					1	20 A	RACK	N264	2	
	3	ROOF	MSO-Z1	20 A	2			1.04	1.70			2	20 A	RACK	N264	4	
--	5	--	--	--	--					1.04	1.70	--	--	--	--	6	--
	7	ROOF	MSO-Z2	20 A	2	1.04	0.00					1	20 A		SPARE	8	--
--	9	--	--	--	--			1.04	0.00			1	20 A		SPARE	10	--
--	11	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	12	--
--	13	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	16	--
--	17	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
					TOTAL LOAD:	2.84 kVA		3.78 kVA		2.74 kVA							
					TOTAL AMPS:	24 A		32 A		23 A							

TOTAL CONNECTED LOAD:	9.36 kVA		8.32 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	32 A		23 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	600 VA	100.00%	600 VA
C	CONTACTOR CONTROLLED	Receptacle - Continuous	4600 VA	100.00%	4600 VA
G	GFCI PROTECTED	Mechanical - Cooling	4160 VA	75.00%	3120 VA
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL SPD.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 2HW1 **VOLTS:** 480Y/277 V **MAINS RATING:** 225 A
LOCATION: MECH N679 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: MSB-Z **AIC RATING:** 35,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	N679 - AHU-W1	RF	20 A	3	3.05	3.88					3	30 A	SF #2	N679 - AHU-W1	2	
--	3	--	--	--	--			3.05	3.88			--	--	--	--	4	--
--	5	--	--	--	--					3.05	3.88	--	--	--	--	6	--
	7	N679 - AHU-W1	SF #1	30 A	3	3.88	0.00					3	30 A		SPARE	8	--
--	9	--	--	--	--			3.88	0.00			--	--	--	--	10	--
--	11	--	--	--	--					3.88	0.00	--	--	--	--	12	--
--	13	SPARE		20 A	3	0.00	0.00					3	30 A		SPARE	14	--
--	15	--	--	--	--			0.00	0.00			--	--	--	--	16	--
--	17	--	--	--	--					0.00	0.00	--	--	--	--	18	--
--	19	SPARE		20 A	3	0.00	0.00					3	40 A		SPARE	20	--
--	21	--	--	--	--			0.00	0.00			--	--	--	--	22	--
--	23	--	--	--	--					0.00	0.00	--	--	--	--	24	--
--	25	SPARE		20 A	3	0.00	0.00					3	40 A		SPARE	26	--
--	27	--	--	--	--			0.00	0.00			--	--	--	--	28	--
--	29	--	--	--	--					0.00	0.00	--	--	--	--	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
					TOTAL LOAD:	10.81 kVA		10.81 kVA		10.81 kVA							
					TOTAL AMPS:	39 A		39 A		39 A							

TOTAL CONNECTED LOAD:	32.43 kVA		32.43 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	39 A		39 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Mechanical - Motor	32430 VA	100.00%	32430 VA
C	CONTACTOR CONTROLLED				
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 2LW1 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: MECH N679 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDPZ1 **AIC RATING:** 22,000 A

A1.2

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	E002	RECEPT	20 A	1	0.54	0.36					1	20 A	RECEPT	N680	2	
	3	E002	RECEPT	20 A	1			0.90	0.54			1	20 A	RECEPT	N679	4	
	5	E002	RECEPT	20 A	1					0.36	0.36	1	20 A	RECEPT	E201	6	
	7	E201	RECEPT	20 A	1	0.36	1.20					1	20 A	REFRIG	E201	8	G
	9	E201	RECEPT	20 A	1			0.54	1.20			1	20 A	RECEPT	E201	10	
	11	E201	RECEPT	20 A	1					0.54	1.20	1	20 A	RECEPT	E201	12	
	13	N679	CP-W1	20 A	1	1.18	1.20					1	20 A	RECEPT	E201	14	
	15	N679	EF-W2	20 A	1			0.70	1.44			1	20 A	TCP	N679	16	
	17	ROOF	RECEPT	20 A	1					0.36	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
					TOTAL LOAD:	4.84 kVA		5.32 kVA		2.82 kVA							
					TOTAL AMPS:	43 A		47 A		24 A							

TOTAL CONNECTED LOAD:	12.98 kVA		12.98 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	47 A		36 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	9660 VA	100.00%	9660 VA
C	CONTACTOR CONTROLLED	Mechanical - Motor	1880 VA	100.00%	1880 VA
G	GFCI PROTECTED	Power - Continuous	1440 VA	100.00%	1440 VA
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
Yes	SUB FEED LUGS (SFL)				

NOTES:

RELOCATED BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1H19 **VOLTS:** 480Y/277 V **MAINS RATING:** 100 A
LOCATION: ELEC E102A **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: HD9 **AIC RATING:** 14,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
--	1	EXISTING CIRCUIT		20 A	1	0.00	0.00					1	20 A		EXISTING CIRCUIT	2	--
--	3	EXISTING CIRCUIT		20 A	1			0.00	0.00			1	20 A		EXISTING CIRCUIT	4	--
--	5	EXISTING CIRCUIT		20 A	1					0.00	0.00	1	20 A		EXISTING CIRCUIT	6	--
--	7	EXISTING CIRCUIT		20 A	1	0.00	0.00					1	20 A		EXISTING CIRCUIT	8	--
--	9	EXISTING CIRCUIT		20 A	1			0.00	0.00			1	20 A		EXISTING CIRCUIT	10	--
--	11	EXISTING CIRCUIT		20 A	1					0.00	0.00	1	20 A		EXISTING CIRCUIT	12	--
--	13	EXISTING CIRCUIT		20 A	1	0.00	0.00					1	20 A		EXISTING CIRCUIT	14	--
--	15	EXISTING CIRCUIT		20 A	1			0.00	0.00			1	20 A		EXISTING CIRCUIT	16	--
--	17	EXISTING CIRCUIT		20 A	1					0.00	0.00	1	20 A		EXISTING CIRCUIT	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
					TOTAL LOAD:	0.00 kVA		0.00 kVA		0.00 kVA							
					TOTAL AMPS:	0 A		0 A		0 A							

TOTAL CONNECTED LOAD:	0.00 kVA		0.00 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	0 A		0 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED				
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. RELOCATE EXISTING PANELBOARD AND BRANCH CIRCUITS AS INDICATED ON DRAWINGS.
2. FIELD VERIFY QUANTITY OF BRANCH CIRCUITS TO BE RELOCATED.
3. FIELD VERIFY FEEDER SIZE TO BE EXTENDED TO NEW LOCATION.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1LW1 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: STOR N271 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDPZ1 **AIC RATING:** 22,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	E107	RECEPT	20 A	1	1.20	1.20					1	20 A	RECEPT	E107	2	G
G	3	E107	RECEPT	20 A	1			1.20	1.20			1	20 A	RECEPT	E107	4	G
G	5	E107	RECEPT	20 A	1					1.20	1.20	1	20 A	RECEPT	E107	6	
	7	E107	RECEPT	20 A	1	1.20	1.20					1	20 A	RECEPT	E107	8	
	9	E107	RECEPT	20 A	1			1.20	1.20			1	20 A	RECEPT	E107	10	G
	11	E107	RECEPT	20 A	1					1.20	1.20	1	20 A	RECEPT	E107	12	
	13	E107	RECEPT	20 A	1	1.20	1.20					1	20 A	RECEPT	E107	14	
	15	E107	RECEPT	20 A	1			1.20	1.20			1	20 A	RECEPT	E107	16	
	17	E107	RECEPT	20 A	1					1.20	1.20	1	20 A	RECEPT	E107	18	
	19	E107	RECEPT	20 A	1	1.20	1.20					1	20 A	RECEPT	E107	20	
	21	E107	RECEPT	20 A	1			1.20	0.36			1	20 A	RECEPT	N271	22	
	23	E107	RECEPT	20 A	1					1.20	1.20	1	20 A	RECEPT	N271	24	G
	25	E107	EF-W1	20 A	1	0.70	1.20					1	20 A	RECEPT	N271	26	G
--	27	SPARE		20 A	1			0.00	1.20			1	20 A	RECEPT	N271	28	G
--	29	SPARE		20 A	1					0.00	1.20	1	20 A	RECEPT	N271	30	G
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
--	43	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	44	--
--	45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--
					TOTAL LOAD:	11.50 kVA		9.96 kVA		10.80 kVA							
					TOTAL AMPS:	97 A		83 A		91 A							

TOTAL CONNECTED LOAD:	32.26 kVA		21.48 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	97 A		60 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	31560 VA	65.84%	20780 VA
C	CONTACTOR CONTROLLED	Mechanical - Motor	700 VA	100.00%	700 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1LW2 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: STOR N271 **PHASES:** 3 **MAINS TYPE:** MLO
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDPZ1 **AIC RATING:** 22,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	E00X	RECEPT	20 A	1	0.54	0.60					1	20 A	RECEPT	E103	2	
	3	N274	RECEPT	20 A	1			0.36	0.60			1	20 A	RECEPT	E103	4	
	5	N273	RECEPT	20 A	1					0.72	0.60	1	20 A	RECEPT	E103	6	
	7	N273	RECEPT	20 A	1	0.72	0.60					1	20 A	RECEPT	E103	8	
	9	E000	RECEPT	20 A	1			0.36	0.54			1	20 A	RECEPT	E103	10	
	11	E000	RECEPT	20 A	1					0.72	0.54	1	20 A	RECEPT	E103	12	
	13	E101, EXTERIOR	RECEPT	20 A	1	0.54	0.60					1	20 A	RECEPT	E104	14	
	15	E000	RECEPT	20 A	1			0.72	0.60			1	20 A	RECEPT	E104	16	
	17	E000	RECEPT	20 A	1					0.72	0.60	1	20 A	RECEPT	E104	18	
	19	E000	G DSPLY	20 A	1	0.18	0.60					1	20 A	RECEPT	E104	20	
	21	E105	RECEPT	20 A	1			0.60	0.72			1	20 A	RECEPT	E104	22	
	23	E105	RECEPT	20 A	1					0.60	1.20	1	20 A	PRJ...	E103,E104	24	
	25	E105	RECEPT	20 A	1	0.60	1.20					1	20 A	PRJ...	E105,E106	26	
	27	E105	RECEPT	20 A	1			0.60	0.72			1	20 A	PROJ.	E103, E104, E105, E106	28	
	29	E105	RECEPT	20 A	1					0.72	0.00	1	20 A		SPARE	30	--
	31	E106	RECEPT	20 A	1	0.60	0.00					1	20 A		SPARE	32	--
	33	E106	RECEPT	20 A	1			1.20	0.00			1	20 A		SPARE	34	--
	35	E106	RECEPT	20 A	1					0.60	0.00	1	20 A		SPARE	36	--
G	37	E106	REFRIG	20 A	1	1.20	0.00					1	20 A		SPARE	38	--
	39	E106	RECEPT	20 A	1			0.54	0.00			1	20 A		SPARE	40	--
	41	E106	RECEPT	20 A	1					0.54	0.00	1	20 A		SPARE	42	--
	43	E106A	AV RACK	20 A	1	1.25	0.00					1	20 A		SPARE	44	--
--	45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--
					TOTAL LOAD:	9.23 kVA		7.56 kVA		7.56 kVA							
					TOTAL AMPS:	77 A		63 A		63 A							

TOTAL CONNECTED LOAD:	24.35 kVA		19.82 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	77 A		55 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	12350 VA	90.49%	11175 VA
C	CONTACTOR CONTROLLED	Kitchen Equipment -...	9600 VA	65.00%	6240 VA
G	GFCI PROTECTED	Mechanical - Motor	2400 VA	100.00%	2400 VA
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:

SCHMIDT
ASSOCIATES

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Indianapolis, IN 46204
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Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD
REGISTERED
NO. AR10400134
STATE OF INDIANA
ARCHITECT

Sarah K Hempstead

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

PANELBOARD SCHEDULES - UNIT Z

E-606.2

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1L3 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDP1 **AIC RATING:** 22,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
G	1	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	2	G
G	3	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	4	G
G	5	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	6	G
G	7	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	8	G
G	9	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	10	G
G	11	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	12	G
G	13	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	14	G
G	15	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	16	G
G	17	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	18	G
G	19	EXTERIOR	BLK HTR	20 A	1	1.50	0.00					1	20 A		SPARE	20	--
G	21	BUS CANOPY LIGHTING	LIGHTS	20 A	1			3.36	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
					TOTAL LOAD:	10.50 kVA		12.36 kVA		9.00 kVA							
					TOTAL AMPS:	89 A		105 A		75 A							

TOTAL CONNECTED LOAD:	31.86 kVA	23.45 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	105 A	65 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	28500 VA	67.54%	19250 VA
C	CONTACTOR CONTROLLED	Lighting - Exterior	3360 VA	125.00%	4200 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
2. PROVIDE NEMA 3R ENCLOSURE.
3. INCLUDE PANEL UNDER CANOPY ALTERNATE ONLY.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1L4 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDP1 **AIC RATING:** 22,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
--	1	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	2	--
--	3	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	4	--
--	5	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	6	--
--	7	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	8	--
--	9	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	10	--
--	11	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	12	--
--	13	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	16	--
--	17	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE - PROVIDE HANDLE...		20 A	3			0.00	0.00			3	20 A		SPARE - PROVIDE HANDLE LOCK	22	--
--	23	--	--	--	--					0.00	0.00	--	--	--	--	24	--
--	25	--	--	--	--	0.00	0.00					--	--	--	--	26	--
--	27	SPARE - PROVIDE HANDLE...		20 A	3			0.00	0.00			3	20 A		SPARE - PROVIDE HANDLE LOCK	28	--
--	29	--	--	--	--					0.00	0.00	--	--	--	--	30	--
--	31	--	--	--	--	0.00	0.00					--	--	--	--	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
--	43	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	44	--
--	45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--
					TOTAL LOAD:	0.00 kVA		0.00 kVA		0.00 kVA							
					TOTAL AMPS:	0 A		0 A		0 A							

TOTAL CONNECTED LOAD:	0.00 kVA	0.00 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	0 A	0 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
C	CONTACTOR CONTROLLED				
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
2. PROVIDE NEMA 3R ENCLOSURE.
3. PANELBOARD INSTALLED IN THIS PROJECT. PANELBOARD WILL BE CONNECTED TO AS PART OF THE CENTRALIZED BUS STORAGE PROJECT.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1L1 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDP1 **AIC RATING:** 22,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
G	1	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	2	G
G	3	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	4	G
G	5	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	6	G
G	7	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	8	G
G	9	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	10	G
G	11	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	12	G
G	13	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	14	G
G	15	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	16	G
G	17	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	18	G
G	19	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	20	G
G	21	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	22	G
G	23	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	24	G
G	25	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	26	G
G	27	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	28	G
G	29	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	30	G
G	31	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	32	G
	33	LIGHTING CONTACTOR	LC-3	20 A	1			0.05	0.00			1	20 A		SPARE	34	--
	35	BUS CANOPY LIGHTING	LIGHTS	20 A	1					1.20	0.00	1	20 A		SPARE	36	--
	37	BUS CANOPY LIGHTING	LIGHTS	20 A	1	1.20	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
--	43	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	44	--
--	45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--
					TOTAL LOAD:	19.20 kVA		15.05 kVA		16.20 kVA							
					TOTAL AMPS:	161 A		125 A		136 A							

TOTAL CONNECTED LOAD:	50.45 kVA	32.06 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	161 A	89 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	48000 VA	60.42%	29000 VA
C	CONTACTOR CONTROLLED	Lighting - Exterior	2450 VA	125.00%	3063 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
2. PROVIDE NEMA 3R ENCLOSURE.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1L2 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDP1 **AIC RATING:** 22,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
G	1	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	2	G
G	3	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	4	G
G	5	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	6	G
G	7	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	8	G
G	9	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	10	G
G	11	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	12	G
G	13	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	14	G
G	15	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	16	G
G	17	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	18	G
G	19	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	20	G
G	21	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	22	G
G	23	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	24	G
G	25	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	26	G
G	27	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	28	G
G	29	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	30	G
G	31	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	32	G
G	33	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	34	G
G	35	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	36	G
	37	BUS CANOPY LIGHTING	LIGHTS	20 A	1	1.20	0.00					1	20 A		SPARE	38	--
	39	BUS CANOPY LIGHTING	LIGHTS	20 A	1			1.20	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
--	43	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	44	--
--	45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--
					TOTAL LOAD:	19.20 kVA		19.20 kVA		18.00 kVA							
					TOTAL AMPS:	162 A		162 A		150 A							

TOTAL CONNECTED LOAD:	56.40 kVA	35.00 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	162 A	97 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	54000 VA	59.26%	32000 VA
C	CONTACTOR CONTROLLED	Lighting - Exterior	2400 VA	125.00%	3000 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
2. PROVIDE NEMA 3R ENCLOSURE.

POWER DISTRIBUTION PANELBOARD SCHEDULE

DESIGNATION: 1LDP1 **VOLTS:** 208Y/120 V **MAINS RATING:** 800 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4 **MCB RATING:** 800 A
SUPPLY FROM: **AIC RATING:** 65,000 A **MCB OPTIONS:** Y

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	1L1	PANEL	225 A	3	19.20	19.20					3	225 A	PANEL	1L2	2	
--	3	--	--	--	--			15.05	19.20			--	--	--	--	4	--
--	5	--	--	--	--					16.20	18.00	--	--	--	--	6	--
	7	1L3	PANEL	225 A	3	10.50	17.08					3	225 A	PANEL	1L4	8	
--	9	--	--	--	--			12.36	16.47			--	--	--	--	10	--
--	11	--	--	--	--					9.00	15.83	--	--	--	--	12	--
--	13	SPARE		225 A	3	0.00	0.00					3	100 A		SPARE	14	--
--	15	--	--	--	--			0.00	0.00			--	--	--	--	16	--
--	17	--	--	--	--					0.00	0.00	--	--	--	--	18	--
--	19	SPACE	--	--	--	0.00	0.00					--	--	--	SPACE	20	--
--	21	SPACE	--	--	--			0.00	0.00			--	--	--	SPACE	22	--
--	23	SPACE	--	--	--					0.00	0.00	--	--	--	SPACE	24	--
--	25	SPACE	--	--	--	0.00	0.00					--	--	--	SPACE	26	--
--	27	SPACE	--	--	--			0.00	0.00			--	--	--	SPACE	28	--
--	29	SPACE	--	--	--					0.00	0.00	--	--	--	SPACE	30	--
					TOTAL LOAD:	65.98 kVA		63.08 kVA		59.03 kVA							
					TOTAL AMPS:	555 A		531 A		492 A							

TOTAL CONNECTED LOAD:	188.09 kVA	129.91 kVA	TOTAL DEMAND LOAD:
TOTAL CONNECTED AMPS:	555 A	361 A	TOTAL DEMAND AMPS:

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	130500 VA	53.83%	70250 VA
C	CONTACTOR CONTROLLED	Lighting - Exterior	8260 VA	125.00%	10325 VA
G	GFCI PROTECTED	Spare	49330 VA	100.00%	49330 VA
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. UL LISTED SERVICE ENTRANCE RATED.
2. PROVIDE INTERNAL SPD.
3. PROVIDE CUSTOMER METERING PER SPECIFICATIONS.
4. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
5. PROVIDE NEMA 3R ENCLOSURE.

SCHMIDT ASSOCIATES
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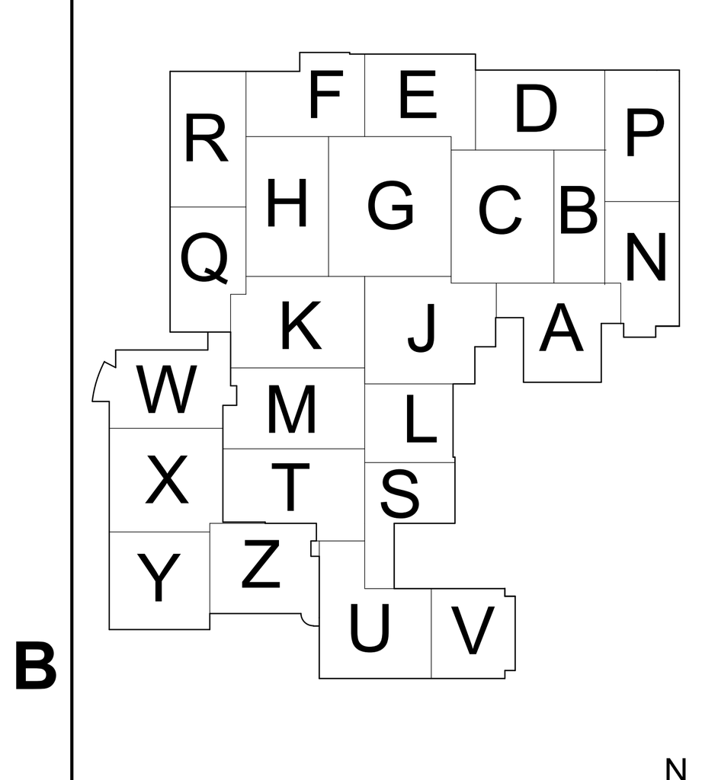
Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

PANELBOARD SCHEDULES - SITE

E-607.2

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1HTC1 **VOLTS:** 480Y/277 V **MAINS RATING:** 225 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4 **MCB RATING:** 225 A
SUPPLY FROM: MSB-Z **AIC RATING:** **MCB OPTIONS:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	T-TC1	XFMR	70 A	3	7.20	0.00					2	20 A		SPARE	2	--
--	3	--	--	--	--			6.00	0.00			--	--	--	--	4	--
--	5	--	--	--	--					6.00	0.00	2	20 A		SPARE	6	--
--	7	SPARE		20 A	1	0.00	0.00					--	--	--	--	8	--
--	9	SPARE		20 A	1			0.00	0.00			2	20 A		SPARE	10	--
--	11	SPARE		20 A	1					0.00	0.00	--	--	--	--	12	--
--	13	SPARE		20 A	1	0.00	0.00					2	20 A		SPARE	14	--
--	15	SPARE		20 A	1			0.00	0.00			--	--	--	--	16	--
--	17	SPARE		20 A	1					0.00	0.00	2	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					--	--	--	--	20	--
--	21	SPARE		20 A	1			0.00	0.00			2	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	--	--	--	--	24	--
--	25	SPARE		20 A	1	0.00	0.00					2	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			--	--	--	--	28	--
--	29	SPARE		20 A	1					0.00	0.00	2	20 A		SPARE	30	--
--	31	SPACE	--	--	--	0.00	0.00					--	--	--	--	32	--
--	33	SPACE	--	--	--			0.00	0.00			2	20 A		SPARE	34	--
--	35	SPACE	--	--	--					0.00	0.00	--	--	--	--	36	--
--	37	SPACE	--	--	--	0.00	0.00					--	--	--	SPACE	38	--
--	39	SPACE	--	--	--			0.00	0.00			--	--	--	SPACE	40	--
--	41	SPACE	--	--	--					0.00	0.00	--	--	--	SPACE	42	--
					TOTAL LOAD:	7.20 kVA		6.00 kVA		6.00 kVA							
					TOTAL AMPS:	26 A		22 A		22 A							

TOTAL CONNECTED LOAD: 19.20 kVA — 14.60 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 26 A — 18 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	19200 VA	76.04%	14600 VA
C	CONTACTOR CONTROLLED				
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
2. PROVIDE NEMA 3R ENCLOSURE.
3. PROVIDE INTERNAL SPD.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1L7 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDP2 **AIC RATING:** 22,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
G	1	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	2	G
G	3	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	4	G
G	5	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	6	G
G	7	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	8	G
G	9	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	10	G
G	11	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	12	G
G	13	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	14	G
G	15	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	16	G
G	17	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	18	G
G	19	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	20	G
G	21	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	22	G
	23	BUS CANOPY LIGHTING	LIGHTS	20 A	1					1.40	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
					TOTAL LOAD:	12.00 kVA		12.00 kVA		10.40 kVA							
					TOTAL AMPS:	102 A		102 A		87 A							

TOTAL CONNECTED LOAD: 34.40 kVA — 23.25 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 102 A — 65 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	33000 VA	65.15%	21500 VA
C	CONTACTOR CONTROLLED	Lighting - Exterior	1400 VA	125.00%	1750 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
2. PROVIDE NEMA 3R ENCLOSURE.

POWER DISTRIBUTION PANELBOARD SCHEDULE

DESIGNATION: 1LDP2 **VOLTS:** 208Y/120 V **MAINS RATING:** 800 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4 **MCB RATING:** 800 A
SUPPLY FROM: **AIC RATING:** 65,000 A **MCB OPTIONS:** Y

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	1L5	PANEL	225 A	3	18.05	19.20					3	225 A	PANEL	1L6	2	
--	3	--	--	--	--			19.20	19.20			--	--	--	--	4	--
--	5	--	--	--	--					19.20	18.00	--	--	--	--	6	--
	7	1L7	PANEL	225 A	3	12.00	12.00					3	225 A	PANEL	1L8	8	
--	9	--	--	--	--			12.00	12.00			--	--	--	--	10	--
--	11	--	--	--	--					10.40	11.61	--	--	--	--	12	--
--	13	SPARE		225 A	3	0.00	0.00					3	100 A		SPARE	14	--
--	15	--	--	--	--			0.00	0.00			--	--	--	--	16	--
--	17	--	--	--	--					0.00	0.00	--	--	--	--	18	--
--	19	SPACE	--	--	--	0.00	0.00					--	--	--	SPACE	20	--
--	21	SPACE	--	--	--			0.00	0.00			--	--	--	SPACE	22	--
--	23	SPACE	--	--	--					0.00	0.00	--	--	--	SPACE	24	--
--	25	SPACE	--	--	--	0.00	0.00					--	--	--	SPACE	26	--
--	27	SPACE	--	--	--			0.00	0.00			--	--	--	SPACE	28	--
--	29	SPACE	--	--	--					0.00	0.00	--	--	--	SPACE	30	--
					TOTAL LOAD:	61.25 kVA		62.40 kVA		59.21 kVA							
					TOTAL AMPS:	513 A		523 A		493 A							

TOTAL CONNECTED LOAD: 182.86 kVA — 103.07 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 523 A — 286 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	174000 VA	52.87%	92000 VA
C	CONTACTOR CONTROLLED	Lighting - Exterior	8855 VA	125.00%	11069 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. UL LISTED SERVICE ENTRANCE RATED.
2. PROVIDE INTERNAL SPD.
3. PROVIDE CUSTOMER METERING PER SPECIFICATIONS.
4. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1LTC1 **VOLTS:** 208Y/120 V **MAINS RATING:** 2251 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4 **MCB RATING:** 175 A
SUPPLY FROM: T-TC1 **AIC RATING:** **MCB OPTIONS:**

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	TENNIS COURTS	RECEPT	20 A	1	1.20	1.20					1	20 A	RECEPT	TENNIS COURTS	2	
	3	TENNIS COURTS	RECEPT	20 A	1			1.20	1.20			1	20 A	RECEPT	TENNIS COURTS	4	
	5	TENNIS COURTS	RECEPT	20 A	1					1.20	1.20	1	20 A	RECEPT	TENNIS COURTS	6	
	7	TENNIS COURTS	RECEPT	20 A	1	1.20	1.20					1	20 A	RECEPT	TENNIS COURTS	8	
	9	TENNIS COURTS	RECEPT	20 A	1			1.20	1.20			1	20 A	RECEPT	TENNIS COURTS	10	
	11	TENNIS COURTS	RECEPT	20 A	1					1.20	1.20	1	20 A	RECEPT	TENNIS COURTS	12	
	13	TENNIS COURTS	RECEPT	20 A	1	1.20	1.20					1	20 A	RECEPT	TENNIS COURTS	14	
	15	TENNIS COURTS	RECEPT	20 A	1			1.20	0.00			1	20 A		SPARE	16	--
	17	TENNIS COURTS	RECEPT	20 A	1					1.20	0.00	1	20 A		SPARE	18	--
--	19	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	20	--
--	21	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	22	--
--	23	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
					TOTAL LOAD:	7.20 kVA		6.00 kVA		6.00 kVA							
					TOTAL AMPS:	60 A		50 A		50 A							

TOTAL CONNECTED LOAD: 19.20 kVA — 14.60 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 60 A — 41 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	19200 VA	76.04%	14600 VA
C	CONTACTOR CONTROLLED				
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
2. PROVIDE NEMA 3R ENCLOSURE.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1L8 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDP2 **AIC RATING:** 22,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
G	1	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	2	G
G	3	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	4	G
G	5	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	6	G
G	7	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	8	G
G	9	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	10	G
G	11	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	12	G
G	13	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	14	G
G	15	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	16	G
G	17	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	18	G
G	19	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	20	G
G	21	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	22	G
	23	BUS CANOPY LIGHTING	LIGHTS	20 A	1					2.61	0.00	1	20 A		SPARE	24	--
--	25	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	26	--
--	27	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	28	--
--	29	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	30	--
--	31	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	32	--
--	33	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	34	--
--	35	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	36	--
--	37	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	38	--
--	39	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
					TOTAL LOAD:	12.00 kVA		12.00 kVA		11.61 kVA							
					TOTAL AMPS:	101 A		101 A		97 A							

TOTAL CONNECTED LOAD: 35.61 kVA — 24.76 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 101 A — 69 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	33000 VA	65.15%	21500 VA
C	CONTACTOR CONTROLLED	Lighting - Exterior	2605 VA	125.00%	3256 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
2. PROVIDE NEMA 3R ENCLOSURE.
3. INCLUDE PANEL UNDER CANOPY ALTERNATE ONLY.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1L5 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDP2 **AIC RATING:** 22,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
G	1	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	2	G
G	3	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	4	G
G	5	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	6	G
G	7	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	8	G
G	9	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	10	G
G	11	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	12	G
G	13	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	14	G
G	15	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	16	G
G	17	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	18	G
G	19	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	20	G
G	21	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	22	G
G	23	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	24	G
G	25	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	26	G
G	27	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	28	G
G	29	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	30	G
G	31	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	32	G
G	33	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	34	G
G	35	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	36	G
	37	LIGHTING CONTACTOR	LC-3	20 A	1	0.05	0.00					1	20 A		SPARE	38	--
	39	BUS CANOPY LIGHTING	LIGHTS	20 A	1			1.20	0.00			1	20 A		SPARE	40	--
	41	BUS CANOPY LIGHTING	LIGHTS	20 A	1					1.20	0.00	1	20 A		SPARE	42	--
--	43	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	44	--
--	45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--
					TOTAL LOAD:	18.05 kVA		19.20 kVA		19.20 kVA							
					TOTAL AMPS:	150 A		161 A		161 A							

TOTAL CONNECTED LOAD: 56.45 kVA — 35.06 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 161 A — 97 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	54000 VA	59.26%	32000 VA
C	CONTACTOR CONTROLLED	Lighting - Exterior	2450 VA	125.00%	3063 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
2. PROVIDE NEMA 3R ENCLOSURE.

BRANCH PANELBOARD SCHEDULE

DESIGNATION: 1L6 **VOLTS:** 208Y/120 V **MAINS RATING:** 225 A
LOCATION: **PHASES:** 3 **MAINS TYPE:** MCB
MOUNTING: SURFACE **WIRES:** 4
SUPPLY FROM: 1LDP2 **AIC RATING:** 22,000 A

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
G	1	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	2	G
G	3	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	4	G
G	5	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	6	G
G	7	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	8	G
G	9	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	10	G
G	11	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	12	G
G	13	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	14	G
G	15	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	16	G
G	17	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	18	G
G	19	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	20	G
G	21	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	22	G
G	23	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	24	G
G	25	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	26	G
G	27	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	28	G
G	29	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	30	G
G	31	EXTERIOR	BLK HTR	20 A	1	1.50	1.50					1	20 A	BLK HTR	EXTERIOR	32	G
G	33	EXTERIOR	BLK HTR	20 A	1			1.50	1.50			1	20 A	BLK HTR	EXTERIOR	34	G
G	35	EXTERIOR	BLK HTR	20 A	1					1.50	1.50	1	20 A	BLK HTR	EXTERIOR	36	G
	37	BUS CANOPY LIGHTING	LIGHTS	20 A	1	1.20	0.00					1	20 A		SPARE	38	--
	39	BUS CANOPY LIGHTING	LIGHTS	20 A	1			1.20	0.00			1	20 A		SPARE	40	--
--	41	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	42	--
--	43	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	44	--
--	45	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	46	--
--	47	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	48	--
--	49	SPARE		20 A	1	0.00	0.00					1	20 A		SPARE	50	--
--	51	SPARE		20 A	1			0.00	0.00			1	20 A		SPARE	52	--
--	53	SPARE		20 A	1					0.00	0.00	1	20 A		SPARE	54	--
					TOTAL LOAD:	19.20 kVA		19.20 kVA		18.00 kVA							
					TOTAL AMPS:	162 A		162 A		150 A							

TOTAL CONNECTED LOAD: 56.40 kVA — 35.00 kVA **TOTAL DEMAND LOAD:**
TOTAL CONNECTED AMPS: 162 A — 97 A **TOTAL DEMAND AMPS:**

PANELBOARD & CIRCUIT BREAKER OPTIONS ("O" COLUMN / MCB OPTIONS ABBREVIATIONS)		LOAD CLASSIFICATION	CONNECTED LOAD (VA)	DEMAND FACTOR	ESTIMATE DEMAND (VA)
		Receptacle - General	54000 VA	59.26%	32000 VA
C	CONTACTOR CONTROLLED	Lighting - Exterior	2400 VA	125.00%	3000 VA
G	GFCI PROTECTED				
P	HANDLE LOCKING DEVICE				
S	SHUNT TRIP				
X	80% RATED MAIN CIRCUIT BREAKER WITH LSI				
Y	100% RATED MAIN CIRCUIT BREAKER WITH LSI				
Z	100% RATED MAIN CIRCUIT BREAKER WITH LSIG				
	FEED THROUGH LUGS (FTL)				
	SUB FEED LUGS (SFL)				

NOTES:
1. PROVIDE INTERNAL THERMOSTATICALLY CONTROLLED STRIP HEATER.
2. PROVIDE NEMA 3R ENCLOSURE.

SCHMIDT
ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
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Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD
NO. AR10400134

Sarah K Hempstead

#	Revision	Date
A1.2	ADDENDUM 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

A1.2

PANELBOARD SCHEDULES - SITE

E-608.2

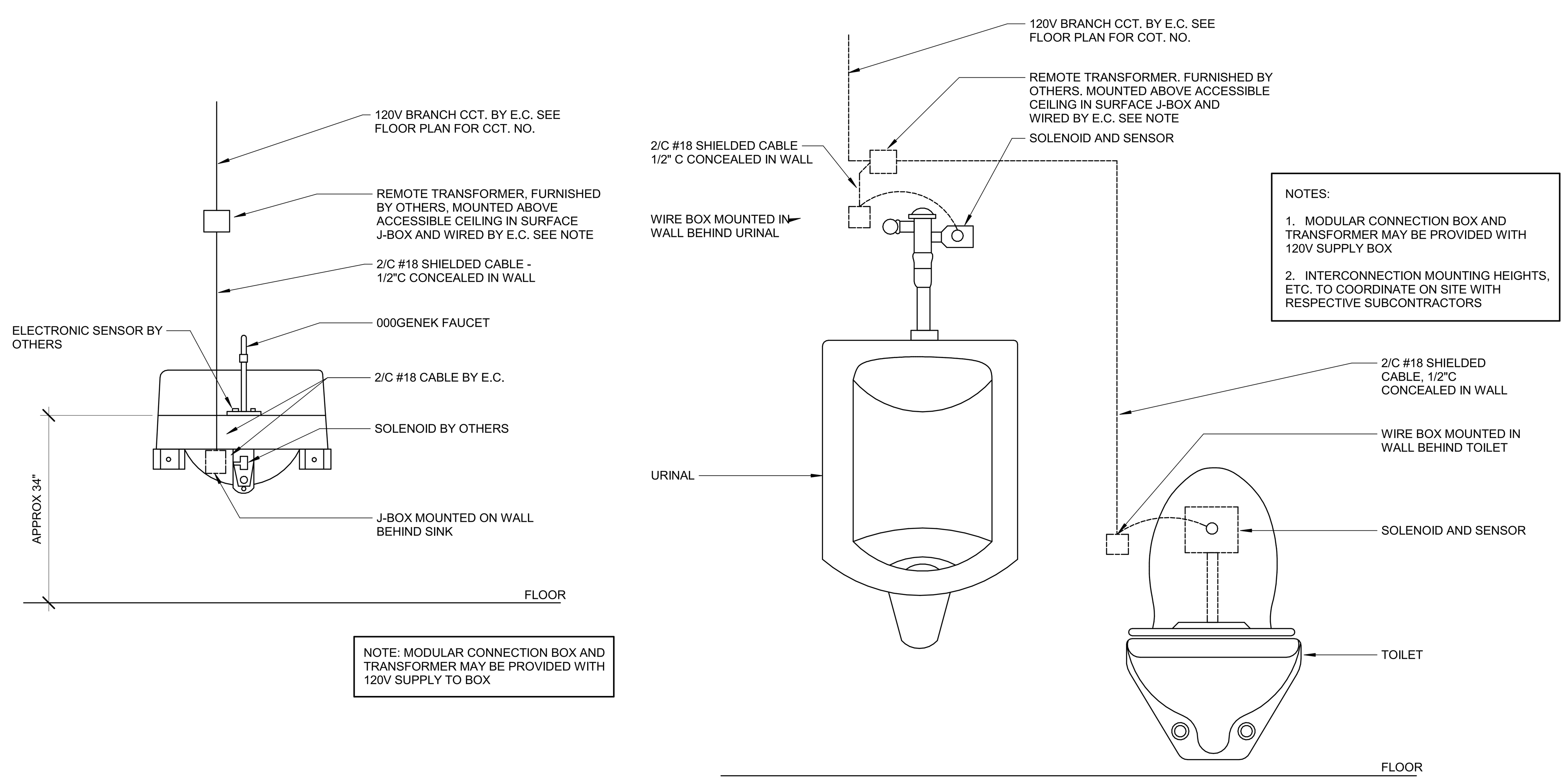
E-608.2_ PANELBOARD SCHEDULES - SITE
2019-067.NCH_M.S.D. of Washington Township_North Central High School Renovation_
BIM 360://2019-067.NCH - North Central High School/2019-067.NCH_Bldg001_E_2020_Cloud.rvt
1/13/2022 10:48:54 AM

265119/265619/26213.1 - INTERIOR/EXTERIOR/EMERGENCY & EXIT LIGHT FIXTURES SCHEDULE											
			SOURCE								
LABEL	DESCRIPTION	VOLTAGE	TYPE	LUMENS	WATTS	CCT	MOUNTING	LENS/REFLECTOR	CERTIFICATIONS	ACCEPTABLE MANUFACTURERS	LABEL
E1	LED EMERGENCY LIGHT. 25' ON CENTER COVERAGE. ADJUSTABLE OPTICS. SELF DIAGNOSTIC. WHITE FINISH. SEALED NICKEL CADMIUM BATTERY.	120/277 V	LED	N/A	10 W	N/A	SURFACE MOUNTED	N/A	N/A	SURE-LITES SEL25 DUAL-LITE EV LITHONIA ELM2	E1
L1	1X4 EDGE LIT LED FLAT PANEL. 0-10V DIMMING.	120/277 V	LED	4,400 LM	45 W	4000 K	RECESSED IN GRID	WHITE FROST ACRYLIC	DLC A1.2	METALUX 14FP COLUMBIA CFP14 LITHONIA EPANL 14	L1
L2	1X4 ARCHITECTURAL LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING.	120/277 V	LED	4,500 LM	41 W	4000 K	RECESSED IN GRID	SMOOTH FROSTED ACRYLIC LENS	DLC	METALUX 14CZSB COLUMBIA RLA14 LITHONIA BLTBA4	L2
L3	2X2 ARCHITECTURAL LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING.	120/277 V	LED	4,300 LM	42 W	4000 K	RECESSED IN GRID	SMOOTH FROSTED ACRYLIC LENS	DLC	METALUX 22CZSB COLUMBIA RLA22 LITHONIA 2BLTBA2	L3
L4	2X4 ARCHITECTURAL LED TROFFER. WHITE FLUSH ALUMINUM DOOR. 0-10V DIMMING.	120/277 V	LED	4,900 LM	41 W	4000 K	RECESSED IN GRID	SMOOTH FROSTED ACRYLIC LENS	DLC	METALUX 24CZSB COLUMBIA RLA24 LITHONIA 2BLTBA4	L4
L5	4" ROUND LED DOWNLIGHT. SELF-FLANGED TRIM. MEDIUM DISTRIBUTION (50°). 0-10V DIMMING.	120/277 V	LED	3,000 LM	28 W	4000 K	RECESSED IN DRYWALL	SEMI-SPECULAR CLEAR	ES	PORTFOLIO LD4B PRESCOLITE LTR-4RD GOTHAM EVO	L5
L6	4' LED VAPORTIGHT FIXTURE. FIBERGLASS HOUSING. U.L. LISTED WET LOCATION.	120/277 V	LED	6,000 LM	58 W	4000 K	SURFACE/WALL	IMPACT RESISTANT, GASKETED PRISMATIC LENS	DLC	METALUX 4VT2 COLUMBIA LXEM4 LITHONIA FEM4 LED	L6
L7	4' LED VAPORTIGHT FIXTURE. FIBERGLASS HOUSING. U.L. LISTED WET LOCATION. INTEGRAL BATTERY INVERTER.	120/277 V	LED	6,000 LM	58 W	4000 K	SURFACE/WALL	IMPACT RESISTANT, GASKETED PRISMATIC LENS	DLC	METALUX 4VT2 COLUMBIA LXEM4 LITHONIA FEM4 LED	L7
L8	4'X2" WIDE LED WALL-MOUNTED FIXTURE. DIRECT DISTRIBUTION. WHITE EXTRUDED ALUMINUM HOUSING. WALL BRACKET. 0-10V DIMMING.	120/277 V	LED	750 LM/FT	40 W	4000 K	WALL-MOUNTED	FLUSH FROSTED ACRYLIC LEN	DLC	FOCAL POINT FSM1W FINELITE HP-2 WM D PINNACLE EX1	L8
L9	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	5,000 LM	45 W	4000 K	CHAIN MOUNTED TO STRUCTURE	SEMI-FROSTED CURVED LENS	DLC	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L9
L10	4' LENSED LED STRIP LIGHT. 0-10V DIMMING, WHITE FINISH.	120/277 V	LED	5,000 LM	45 W	4000 K	SURFACE/WALL	SEMI-FROSTED CURVED LENS	DLC	METALUX SNLED COLUMBIA MPS LITHONIA CLX	L10
L11	LED WALL LIGHT. DIE-CAST ALUMINUM HOUSING. HINGED DOOR FRAME. DARK BRONZE FINISH. U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	2,700 LM	30 W	4000 K	WALL MOUNTED	TYPE III DISTRIBUTION	N/A	MCGRAW-EDISON ISS SPAULDING QSP LITHONIA WSQ	L11
L12	LED WALL PACK, DIE-CAST ALUMINUM HOUSING, HINGED REMOVABLE DIE-CAST ALUMINUM DOOR, DARK BRONZE FINISH, U.L. LISTED FOR WET LOCATIONS.	120/277 V	LED	12,000 LM	100 W	4000 K	WALL MOUNTED	BOROSILICATE REFRACTIVE GLASS LENS	DLC	LUMARK WPM HUBBELL WGH3 LITHONIA TWX3	L12 A1.2
L13	15" X 18" LED HIGHBAY. WHITE ALUMINUM HOUSING. WIDE DISTRIBUTION. 0-10V DIMMING.	120/277 V	LED	18,000 LM	150 W	4000 K	CABLE MOUNTED WITH SEPARATE SAFETY CABLE	HIGH IMPACT POLYCARBONATE LENS	DLC	METALUX VHB COLUMBIA PEL2 LITHONIA CHPB	L13
X1C1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. SELF-POWERED. NICKEL-CADMIUM BATTERY. SELF-DIAGNOSTIC/SELF-TESTING MODULE.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X1C1
X1W1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. SINGLE FACE. STENCIL FACE, RED LETTERS. SELF-POWERED. NICKEL-CADMIUM BATTERY. SELF-DIAGNOSTIC/SELF-TESTING MODULE.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X1W1
X2C1	LED EXIT LIGHT, MATTE BLACK DIE-CAST ALUMINUM HOUSING, BRUSHED ALUM. DUAL FACE. STENCIL FACE, RED LETTERS. SELF-POWERED. NICKEL-CADMIUM BATTERY. SELF-DIAGNOSTIC/SELF-TESTING MODULE.	120/277 V	LED	N/A	5 W	N/A	UNIVERSAL	N/A	N/A	SURE-LITES CX DUAL-LITE SE LITHONIA LE	X2C1

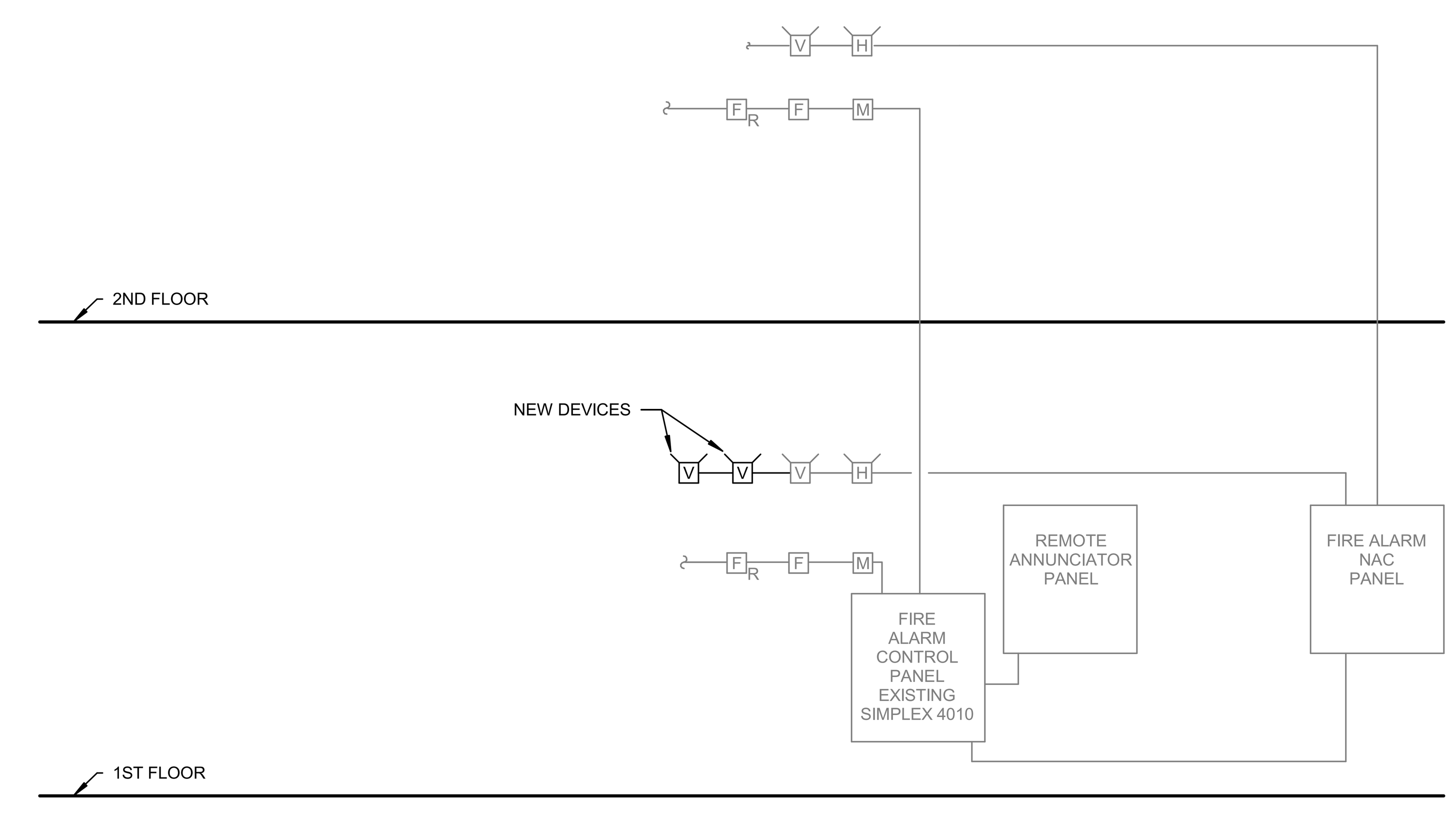
GENERAL LIGHT FIXTURE SCHEDULE NOTES

#	NOTES
A	PROVIDE LAMPS FOR ALL LIGHT FIXTURES SPECIFIED.
B	FOR ALL FIXTURES, PROVIDE 4000 DEGREE K COLOR TEMPERATURE.
C	REFER TO LIGHT FIXTURE SCHEDULE AND REFLECTED CEILING PLANS FOR MOUNTING REQUIREMENTS, CEILING TYPES, AND FINAL LOCATIONS. PROVIDE APPROPRIATE MOUNTING TRIM REQUIRED FOR CEILING TYPE.
D	PROVIDE FACTORY INSTALLED DISCONNECTS FOR ALL LINEAR FIXTURES.
E	PROVIDE VIBRATION DAMPERS FOR ALL ALUMINUM & STEEL POLES 20'-0" AND ABOVE.
F	PROVIDE SELF-DIAGNOSTICS AND SELF-TESTING FOR ALL LIFE SAFETY FIXTURES (EXIT FIXTURES, WALL PACKS, INVERTERS BALLASTS, ETC.)

262913/262923.1 - ENCLOSED & VARIABLE-FREQUENCY MOTOR CONTROLLERS SCHEDULE														
	LOCATION		EQUIPMENT	EQUIPMENT RATINGS					STARTER		DISCONNECT SWITCH		REMOTE	
LABEL	NUMBER	NAME	SERVED	VOLTAGE	PHASE	HP	FLA	NEMA ENCL	TYPE	NEMA SIZE	TYPE	FUSE SIZE	CAPACITOR	REMARKS
MS-1	10-1	MECH-1	HWCP-1	120 V	1	1/12	1.6 A	-	1	-	-	-	-	

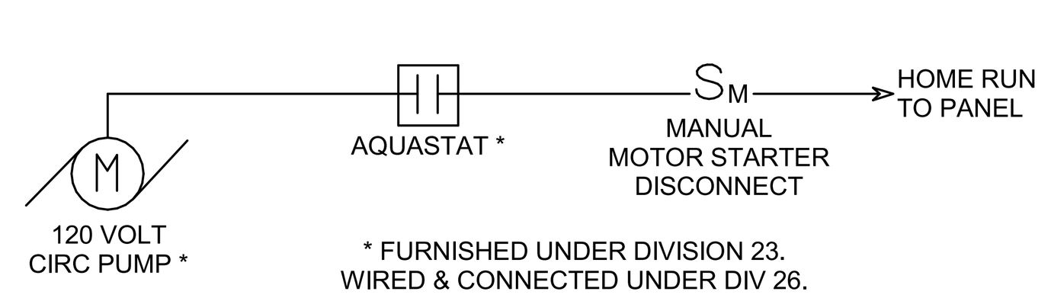


3B **PLUMBING FIXTURES ELECTRICAL ROUGH-IN SCHEMATIC**
NOT TO SCALE

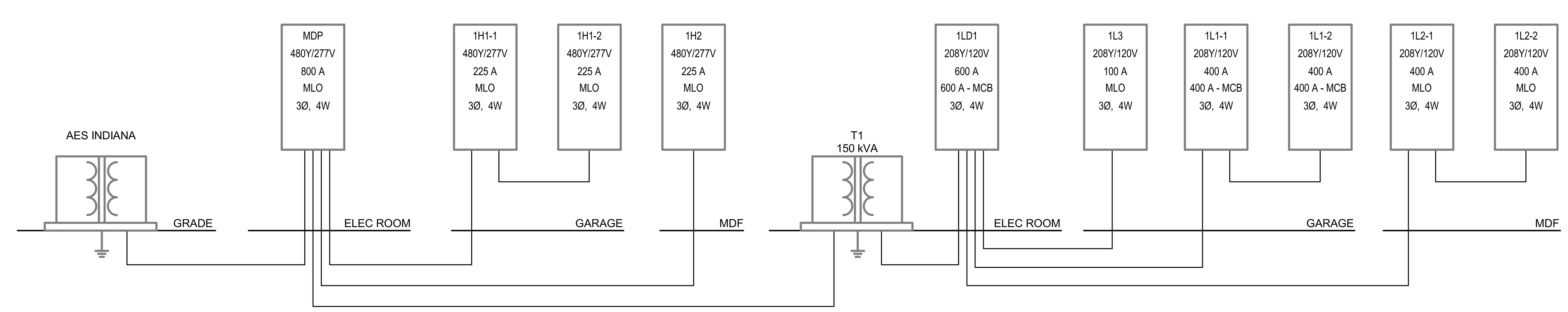


NOTES:
1. REFER TO FLOOR PLANS FOR DEVICE QUANTITIES
2. ALL VISUAL DEVICES AND SPEAKER/STROBES TO BE SYNCHRONIZED FLASH

1B **FIRE ALARM SCHEMATIC**
NOT TO SCALE



4A **WATER HEATER CIRCULATING PUMP DETAIL**
NOT TO SCALE



1A **RISER DIAGRAM TRANSPORTATION BLDG**
NOT TO SCALE

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.CBS
Project Date 12.06.2021
Bid Set 02
Produced JAR ZCG

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

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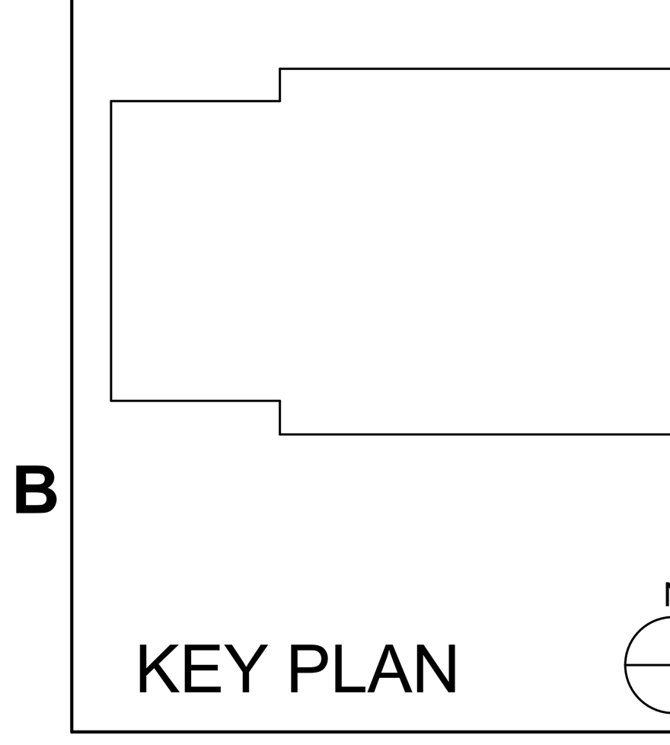
#	Revision	Date
A1.2	Addendum #1	01.13.2022

1815 E. 86th Street
Indianapolis, IN 46240



KEY PLAN

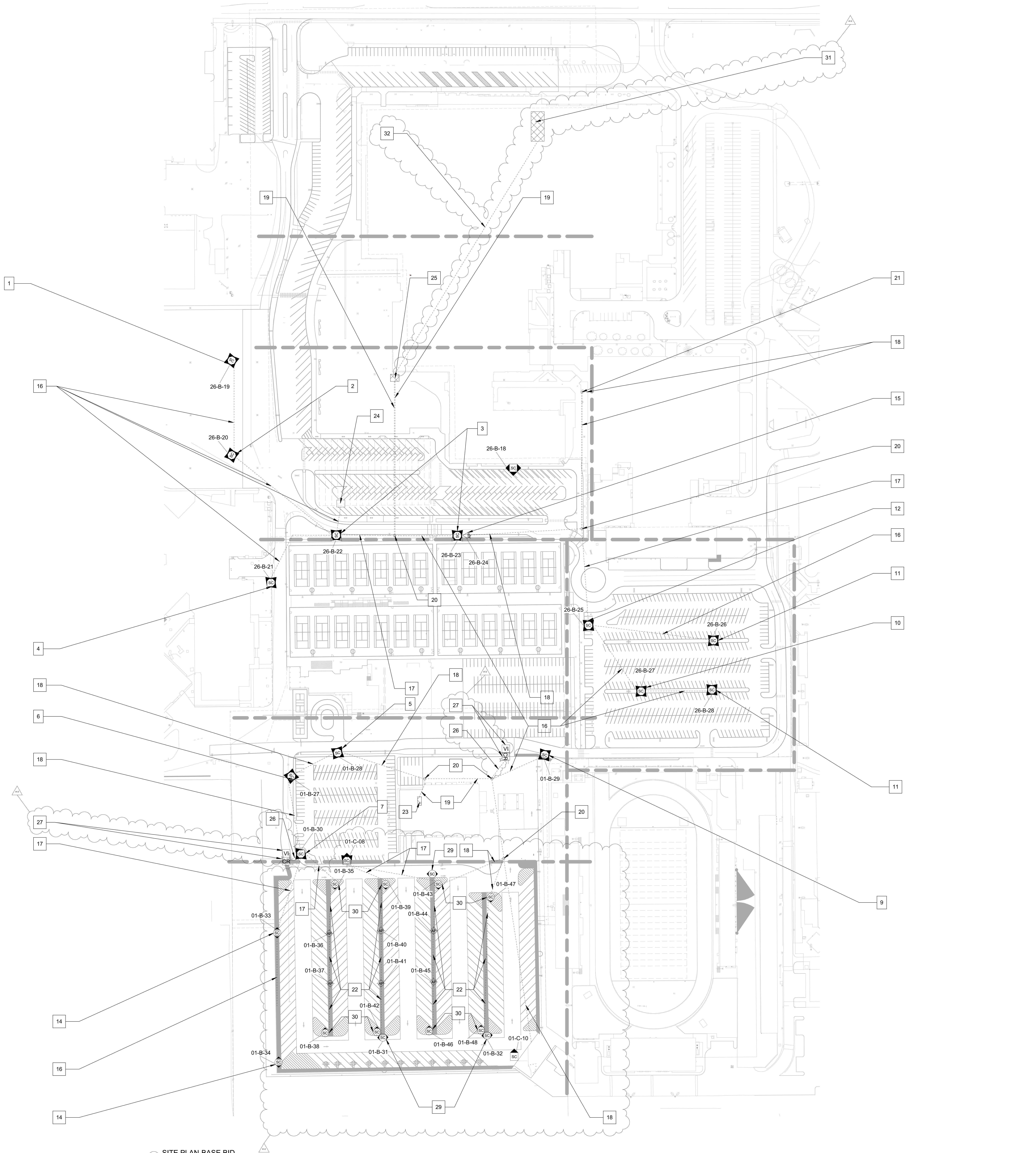
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE
Transportation Building

DIAGRAMS AND SCHEDULES

1-E-601



1 SITE PLAN-BASE BID
1" = 100'-0"

GENERAL SITE PLAN NOTES

- A CONTRACTOR SHALL FURNISH AND INSTALL ALL CABLING AND PATHWAYS TO ENSURE A COMPLETE AND FUNCTIONAL SYSTEM FOR BACKBONE FIBER OPTIC AND COPPER CABLING.
- B ALL BACKBONE OSP FIBER OPTIC AND COPPER CABLING SHALL BE FURNISHED AND INSTALLED ACCORDING TO THE DIVISION 27 SPECIFICATIONS.
- C ALL OSP CONDUIT AND PATHWAYS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE DIVISION 27 SPECIFICATIONS.
- D ALL EXISTING OSP CONDUITS AND CABLING SHALL REMAIN UNLESS OTHERWISE NOTED.
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- H CONTRACTOR SHALL MAINTAIN A MINIMUM 24" SEPARATION FROM THE TELECOM DUCTBANK AND PATHWAY FROM EMI SOURCES. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 36" SEPARATION FROM ALL OTHER UTILITIES.
- I REFER TO CIVIL DRAWINGS FOR ALL FINAL ROUTES AND REQUIREMENTS.
- J REFER TO THE RISER CABLING DIAGRAM ON SHEET T300.1 DETAIL #3 FOR FURTHER FIBER OPTIC AND COPPER CABLING REQUIREMENTS.

TELECOM LEGEND

- SC SECURITY CAMERA - CEILING MOUNTED
- SC SECURITY CAMERA - POLE MOUNTED

SHEET NOTES

1. MOUNT AT 18' A.F.F. ON SOUTHWEST SIDE OF POST PERPENDICULAR TO FIXTURES. CAMERA SHALL BE MINIMUM 8MP PER SENSOR.
2. MOUNT AT 18' A.F.F. ON NORTHWEST SIDE OF POST PERPENDICULAR TO FIXTURES. CAMERA SHALL BE MINIMUM 8MP PER SENSOR.
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22. APPROXIMATE ROUTING OF 1" OVERHEAD SCH-40 CONDUIT FOR SECURITY CAMERA CABLING.
23. TRANSPORTATION BUILDING MDF C-103.
24. BAND TOWER LOCATION. COORIDNATE FINAL LOCATION WITH OWNER.
25. IDF N264 (IDF 26)
26. MINIMUM 2" CONDUIT TO GATE CONTROLLER PEDESTAL. COORDINATE WITH GATE INSTALLATION CONTRACTOR FOR EXACT LOCATION.
27. PROVIDE AND INSTALL VIDEO INTERCOM DOOR STATION AND CARD READER FOR TRAFFIC GATE. CONTRACTOR SHALL PROVIDE AND INSTALL PEDESTAL(S) FOR MOUNTING OF DEVICES. VIDEO INTERCOM SHALL BE INSTALLED AT 66" TO TOP OF DEVICE. CARD READER SHALL BE INSTALLED ADJACENT TO OR IMMEDIATELY BELOW INTERCOM. PROVIDE MINIMUM 1¼" CONDUIT PATHWAY FROM DEVICE PEDESTAL(S) TO GATE CONTROLLER PEDESTAL. COORDINATE WITH GATE INSTALLATION CONTRACTOR FOR PEDESTAL LOCATION PATHWAY ROUTING AND GATE CONTROLLER CABLING REQUIREMENTS.
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32. APPROXIMATE ROUTING OF FIBER FROM SECOND FLOOR MDF THROUGH FIRST FLOOR TO IDF N264 (IDF26).

A1.2

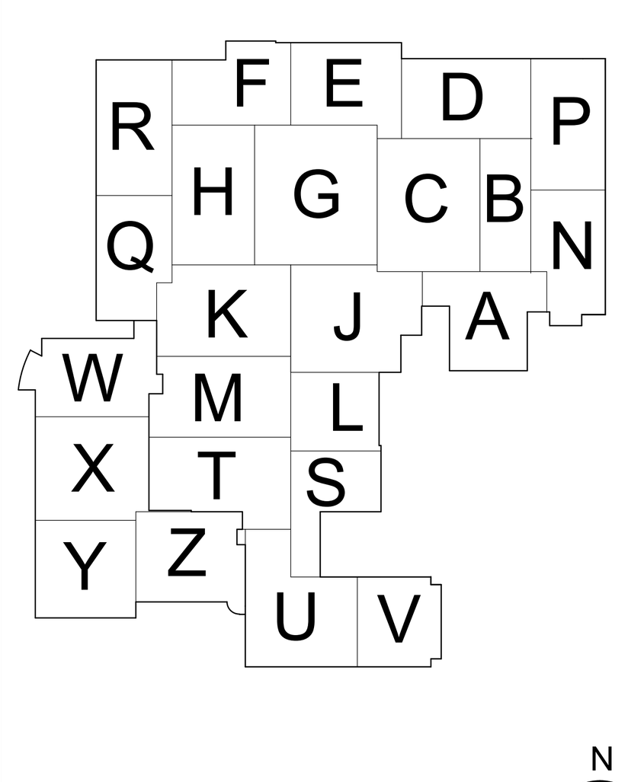
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced MJC D27

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Matthew Connolly
BICSI ID # 212593
Expires 12-31-21
RCDD

#	Revision	Date
A1.2	Addendum 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



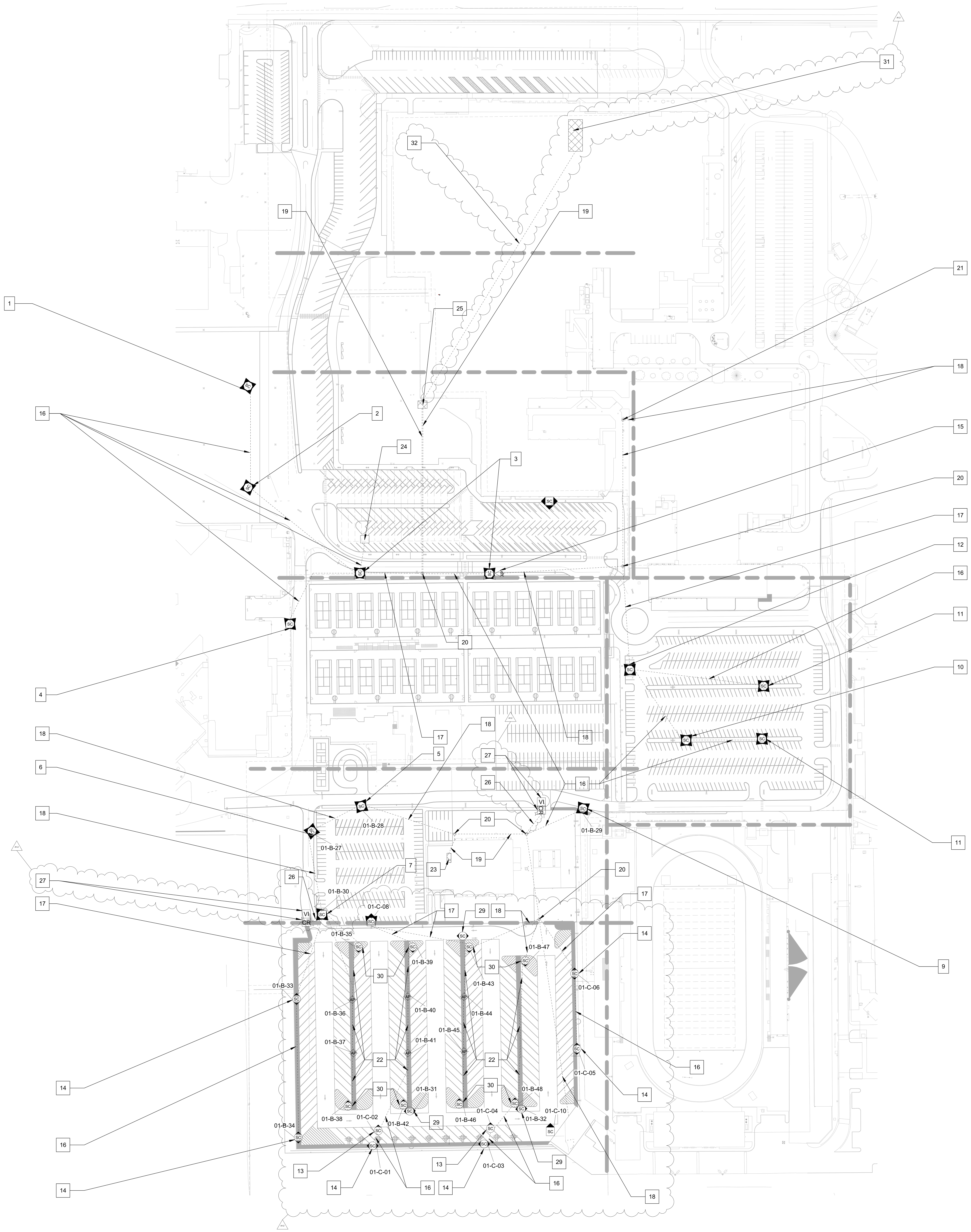
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE PLAN - BASE BID

TF001.2



SITE PLAN - ALTERNATE
1" = 100'-0"

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TELECOM LEGEND

Symbol	Description
SC (circle)	SECURITY CAMERA - CEILING MOUNTED
SC (square)	SECURITY CAMERA - POLE MOUNTED

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24. BAND TOWER LOCATION. COORIDNATE FINAL LOCATION WITH OWNER.
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32. APPROXIMATE ROUTING OF FIBER FROM SECOND FLOOR MDF THROUGH FIRST FLOOR TO IDF N264 (IDF26).

A1.2

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
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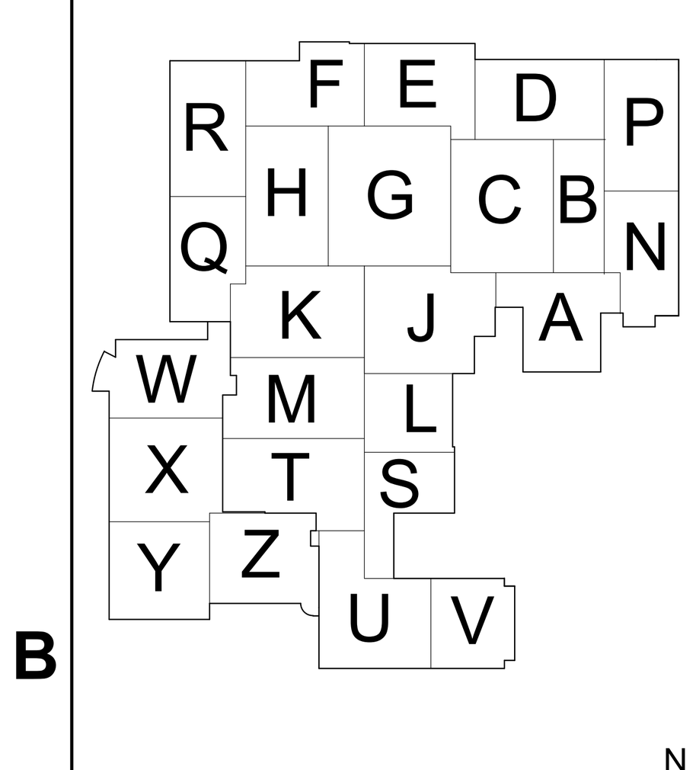
Project No.	2019-067.NCH
Project Date	12.06.2021
Bid Set	02
Produced	MJC D27

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER – BICSI – Matthew Connolly – BICSI ID # 212593 – EXPIRES 12-31-21 – RCDD

#	Revision	Date
A1.2	Addendum 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



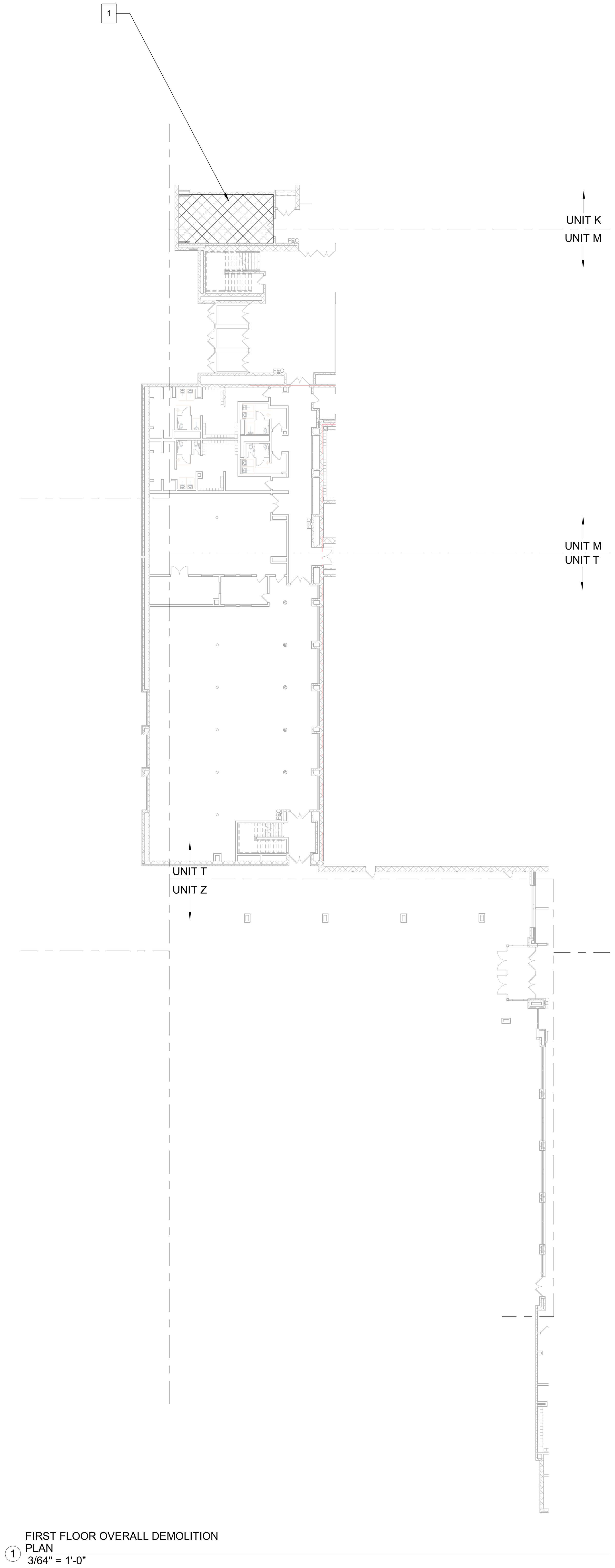
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SITE PLAN - ALTERNATE

TF002.2



1 FIRST FLOOR OVERALL DEMOLITION PLAN
3/64" = 1'-0"

GENERAL DEMO NOTES

A CONTRACTOR SHALL DEMOLISH ALL EXISTING CABLING OUTLETS WITHIN THE CONSTRUCTION AREA. OUTLETS WITHIN AREAS THAT ARE TO REMAIN OCCUPIED SHALL BE PROTECTED IN PLACE UNTIL THE OUTLETS ARE NO LONGER REQUIRED.

B DEMOLITION SHALL REQUIRE CABLING BE REMOVED IN IN ENTIRETY FROM THE WORK AREA OUTLET BACK TO THE POINT OF TERMINATION IN THE DESIGNATED TELECOM ROOM.

C ALL DEMOLITION SHALL BE COMPLETED ACCORDING TO THE DIVISION 27 SPECIFICATIONS.

D ALL EXISTING ALARM AND SECURITY SYSTEM COMPONENTS SERVING THE FACILITY OUTSIDE OF THE CONSTRUCTION AREA SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION. IN THE EVENT THAT CONSTRUCTION ACTIVITIES RESULT IN THE NEED TO SHUT DOWN ANY SECURITY SYSTEM OR COMPONENTS THEREOF, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48 HOUR NOTICE TO THE OWNER SO THAT PROPER MEASURES MAY BE TAKEN.

E EXISTING SECURITY SYSTEM COMPONENTS REMOVED DURING DEMOLITION, WHETHER EXPLICITLY SHOWN ON THE DEMOLITION SHEETS OR REMOVED DUE TO CONSTRUCTION ACTIVITIES, SHALL BE REMOVED SUCH THAT THE COMPONENT MAY BE RE-USED IF NEEDED AND TURNED OVER TO THE OWNER FOR STORAGE.

F EXISTING AUDIO-VISUAL EQUIPMENT, WHETHER EXPLICITLY SHOWN ON THE DEMOLITION SHEETS OR AFFECTED BY CONSTRUCTION ACTIVITES SHALL BE REMOVED AND TURNED OVER TO THE OWNER FOR STORAGE.

G EXISTING TELECOM EQUIPMENT, WHETHER EXPLICITLY SHOWN ON THE DEMOLITION SHEETS OR AFFECTED BY CONSTRUCTION ACTIVITES SHALL BE REMOVED AND TURNED OVER TO THE OWNER FOR STORAGE.

H EXISTING MDF LOCATION TO REMAIN THROUGHOUT CONSTRUCTION. CONTRACTOR TO PROTECT ROOM, EQUIPMENT, AND CABLING DURING CONSTRUCTION.

I ALL EXISTING DEVICES WITHIN PHASE 3 SHALL REMAIN UNLESS OTHERWISE NOTED.

SHEET NOTES

1. EXISTING PE STORAGE D139C (IDF #7) LOCATION.

SCHMIDT ASSOCIATES
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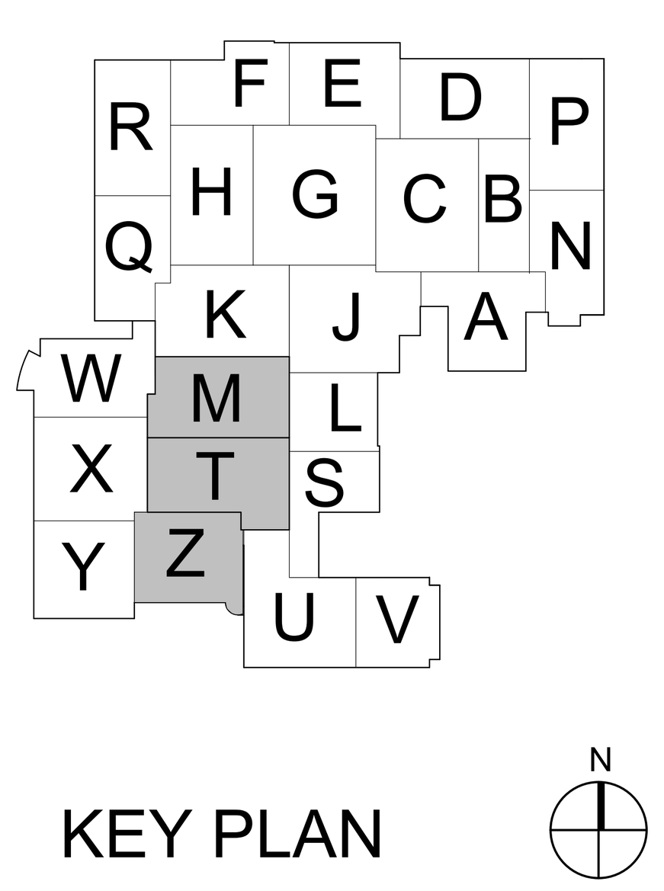


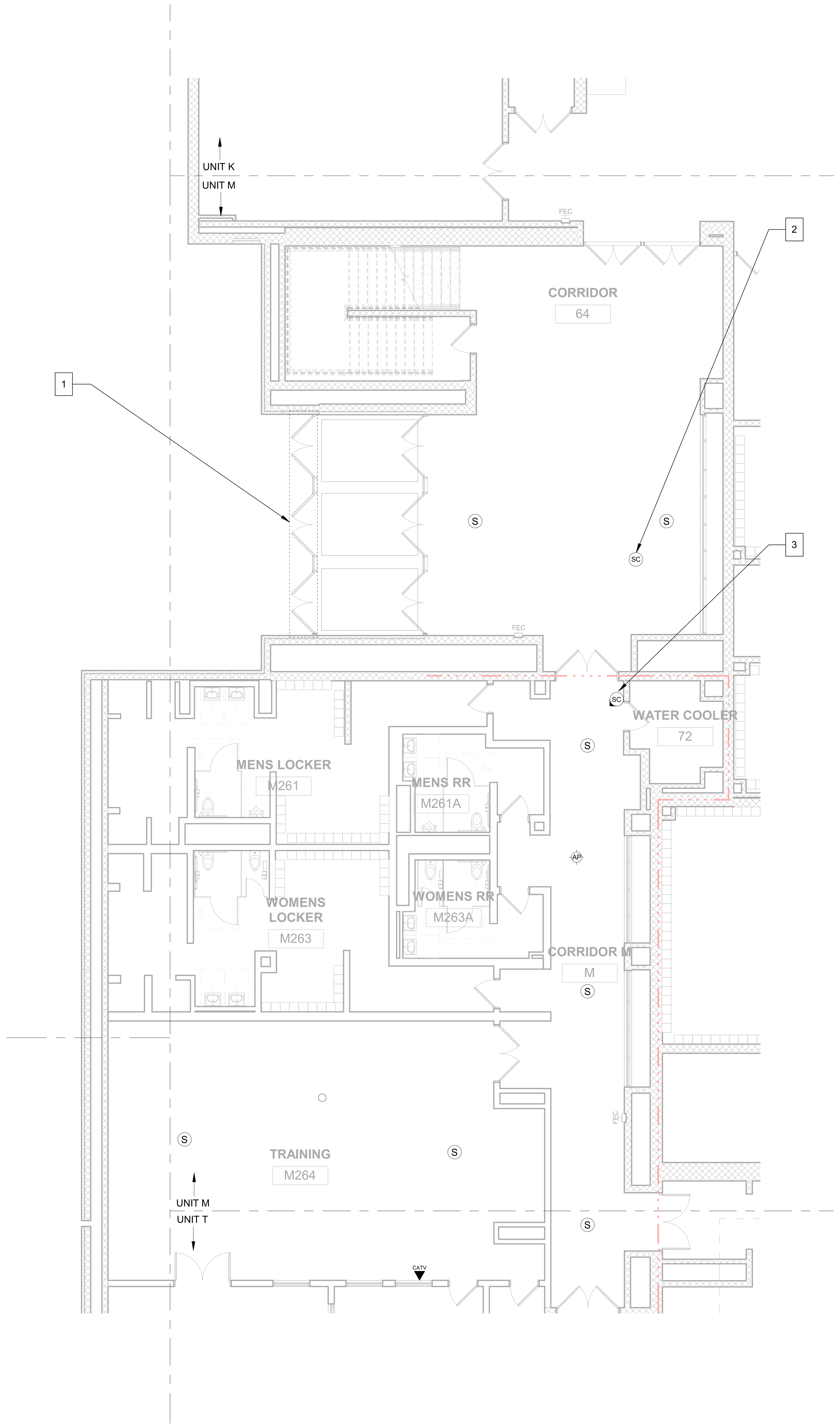
KEY PLAN

M.S.D. of Washington Township

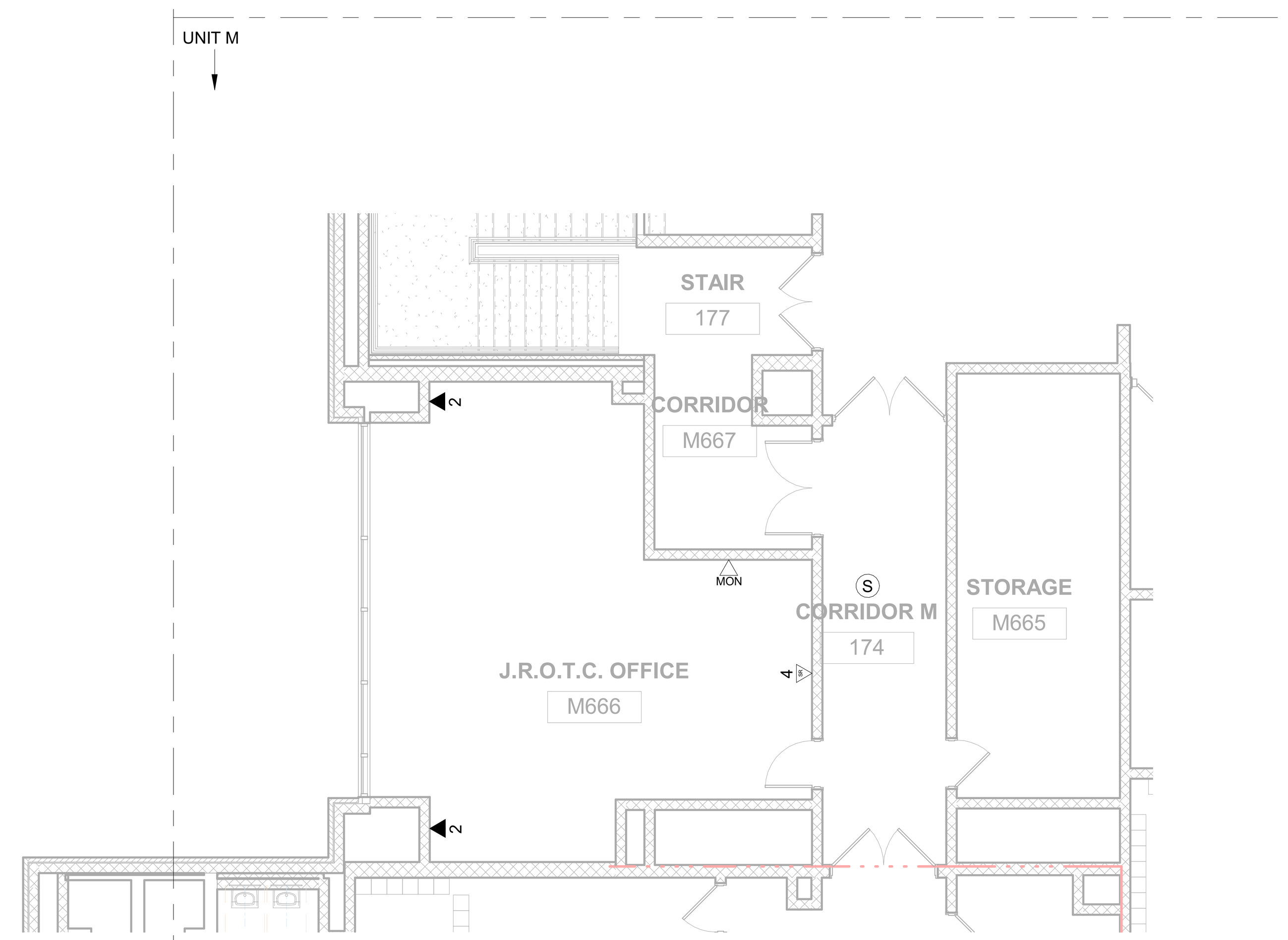
North Central High School Renovation - West Gym Addition

FIRST FLOOR OVERALL DEMOLITION PLAN

TD101.2



1 FIRST FLOOR DEMOLITION PLAN - UNIT M
1/8" = 1'-0"



2 SECOND FLOOR DEMOLITION PLAN - UNIT M
1/8" = 1'-0"

GENERAL DEMO NOTES

A CONTRACTOR SHALL DEMOLISH ALL EXISTING CABLING OUTLETS WITHIN THE CONSTRUCTION AREA. OUTLETS WITHIN AREAS THAT ARE TO REMAIN OCCUPIED SHALL BE PROTECTED IN PLACE UNTIL THE OUTLETS ARE NO LONGER REQUIRED.

B DEMOLITION SHALL REQUIRE CABLING BE REMOVED IN IN ENTIRETY FROM THE WORK AREA OUTLET BACK TO THE POINT OF TERMINATION IN THE DESIGNATED TELECOM ROOM.

C ALL DEMOLITION SHALL BE COMPLETED ACCORDING TO THE DIVISION 27 SPECIFICATIONS.

A1.2

D ALL EXISTING ALARM AND SECURITY SYSTEM COMPONENTS SERVING THE FACILITY OUTSIDE OF THE CONSTRUCTION AREA SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION. IN THE EVENT THAT CONSTRUCTION ACTIVITIES RESULT IN THE NEED TO SHUT DOWN ANY SECURITY SYSTEM OR COMPONENTS THEREOF, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48 HOUR NOTICE TO THE OWNER SO THAT PROPER MEASURES MAY BE TAKEN.

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H EXISTING MDF LOCATION TO REMAIN THROUGHOUT CONSTRUCTION. CONTRACTOR TO PROTECT ROOM, EQUIPMENT, AND CABLING DURING CONSTRUCTION.

I ALL EXISTING DEVICES WITHIN PHASE 3 SHALL REMAIN UNLESS OTHERWISE NOTED.

DEMOLITION TELECOM LEGEND

- DATA LOCATION (# REPRESENTS AMOUNT OF DATA PRESENT)
- SURFACE RACEWAY DATA LOCATION (# REPRESENTS AMOUNT OF DATA PRESENT)
- EXISTING TEACHER STATION LOCATION
- AV INPUT - TYPE 1
- AV INPUT - TYPE 2
- AV CONTROL LOCATION
- CABLE TELEVISION LOCATION
- AV FLOOR BOX LOCATION
- DIGITAL SIGNAGE LOCATION
- MONITOR LOCATION
- PROJECTOR LOCATION
- SHORT THROW PROJECTOR LOCATION
- PROMETHEAN ACTIVBOARD LOCATION
- WIRELESS ACCESS POINT - CEILING MOUNTED
- WIRELESS ACCESS POINT - WALL MOUNTED
- IR MICROPHONE LOCATION
- AUDIO INPUT LOCATION
- MICROPHONE INPUT LOCATION
- CEILING MICROPHONE LOCATION
- VOLUME CONTROL LOCATION
- PAGING SPEAKER LOCATION
- CLASSROOM SPEAKER LOCATION
- WALL MOUNTED SPEAKER LOCATION
- LOUDSPEAKER JUNCTION BOX LOCATION
- AV EQUIPMENT RACK LOCATION
- KP INTRUSION DETECTION KEYPAD LOCATION
- CR CARD READER LOCATION
- CR MULLION MOUNTED CARD READER LOCATION
- SC SECURITY CAMERA - CEILING MOUNTED
- SC SECURITY CAMERA - WALL MOUNTED
- MS MOTION SENSOR LOCATION
- WS WATER PRESENCE SENSOR LOCATION
- PB PANIC BUTTON LOCATION
- D DOOR RELEASE BUTTON LOCATION

SHEET NOTES

1. EXISTING INTRUSION DETECTION MONITORING, CARD READER AND ASSOCIATED CABLING WITHIN DOTTED REGION SHALL BE REMOVED.
2. EXISTING SECURITY CAMERA #1 SHALL BE RE-INSTALLED AT LOCATION SHOWN ON TF2M1.2. EXISTING CABLING SHALL BE REMOVED.
3. EXISTING SECURITY CAMERA SHALL REMAIN.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No.	2019-067.NCH
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Bid Set	02
Produced	MJC D27

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Matthew Connolly
BICSI ID # 212593
EXPIRES 12-31-21
RCDD

#	Revision	Date
A1.2	Addendum 1.2	01.13.2022

1801 East 86th Street
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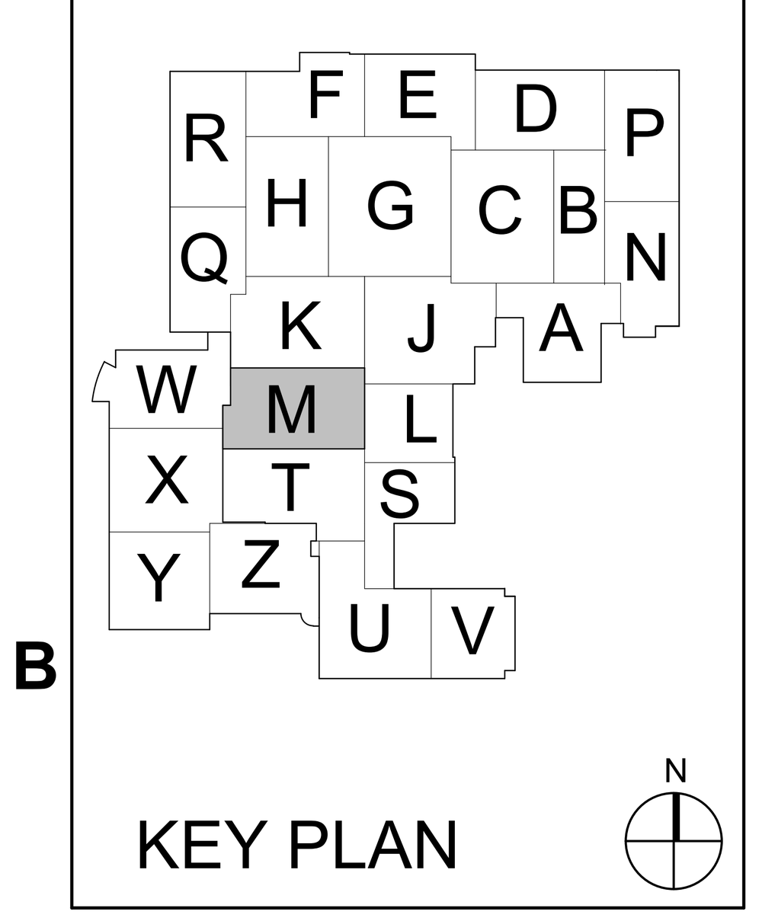


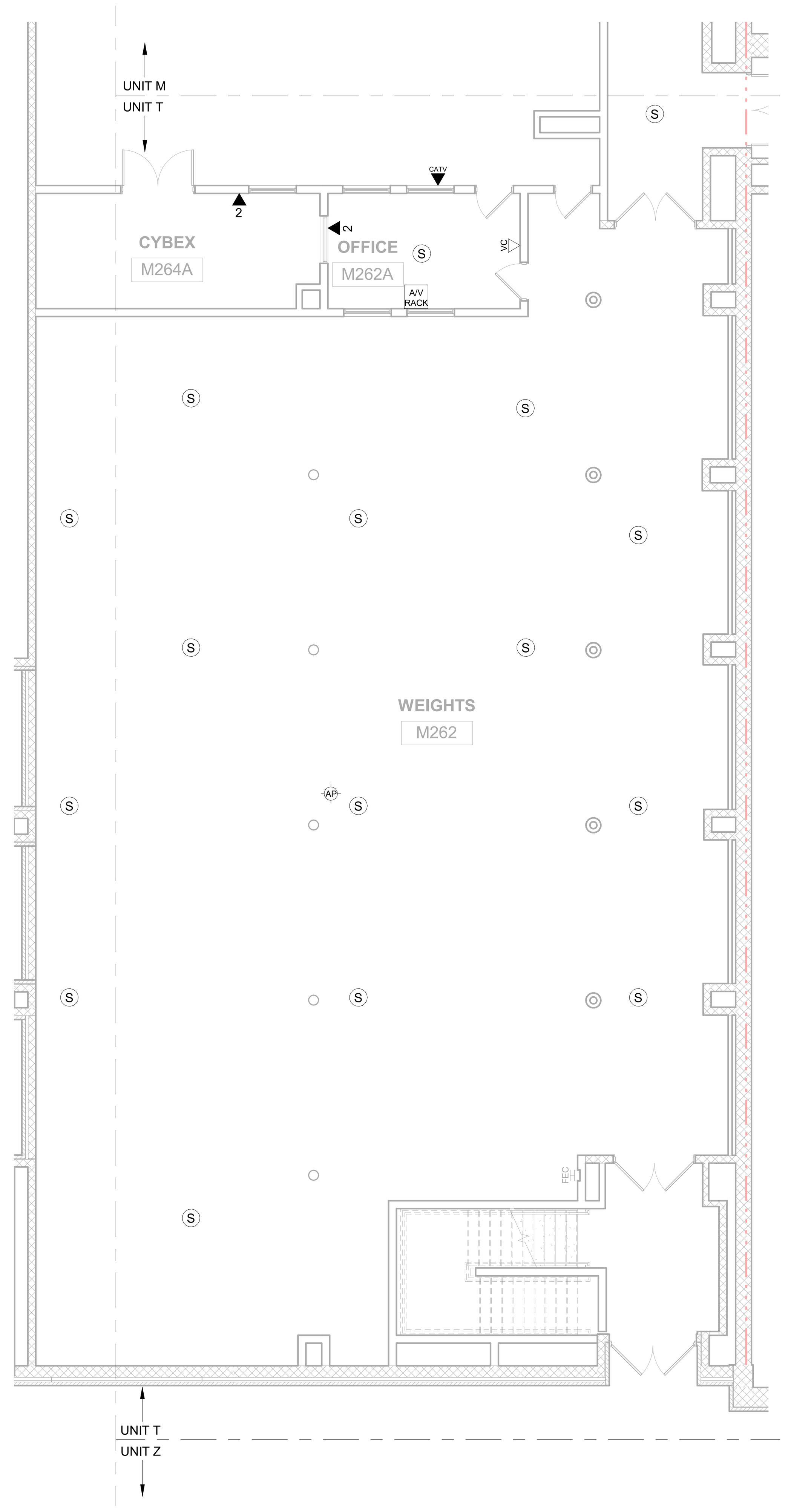
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST AND SECOND FLOOR DEMO PLAN - UNIT M

TD1M1.2



FIRST FLOOR DEMOLITION PLAN - UNIT T
1/8" = 1'-0"

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CATV	CABLE TELEVISION LOCATION
AV	AV FLOOR BOX LOCATION
DS	DIGITAL SIGNAGE LOCATION
MON	MONITOR LOCATION
P	PROJECTOR LOCATION
STP	SHORT THROW PROJECTOR LOCATION
AB	PROMETHEAN ACTIVBOARD LOCATION
AP	WIRELESS ACCESS POINT - CEILING MOUNTED
AP	WIRELESS ACCESS POINT - WALL MOUNTED
IR	IR MICROPHONE LOCATION
AUD	AUDIO INPUT LOCATION
MIC	MICROPHONE INPUT LOCATION
M	CEILING MICROPHONE LOCATION
VC	VOLUME CONTROL LOCATION
S	PAGING SPEAKER LOCATION
S	CLASSROOM SPEAKER LOCATION
SPK	WALL MOUNTED SPEAKER LOCATION
LC	LOUDSPEAKER JUNCTION BOX LOCATION
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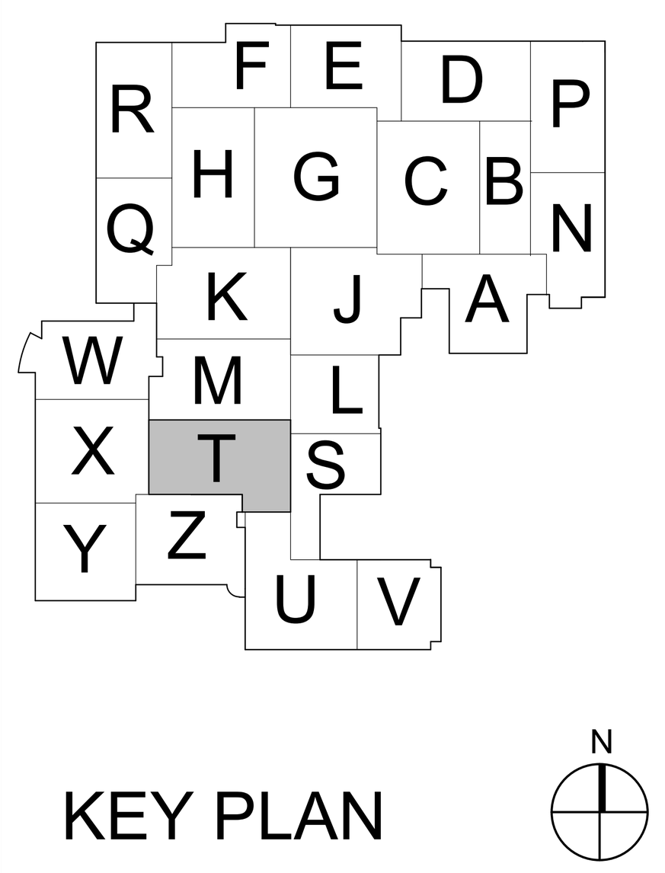


KEY PLAN

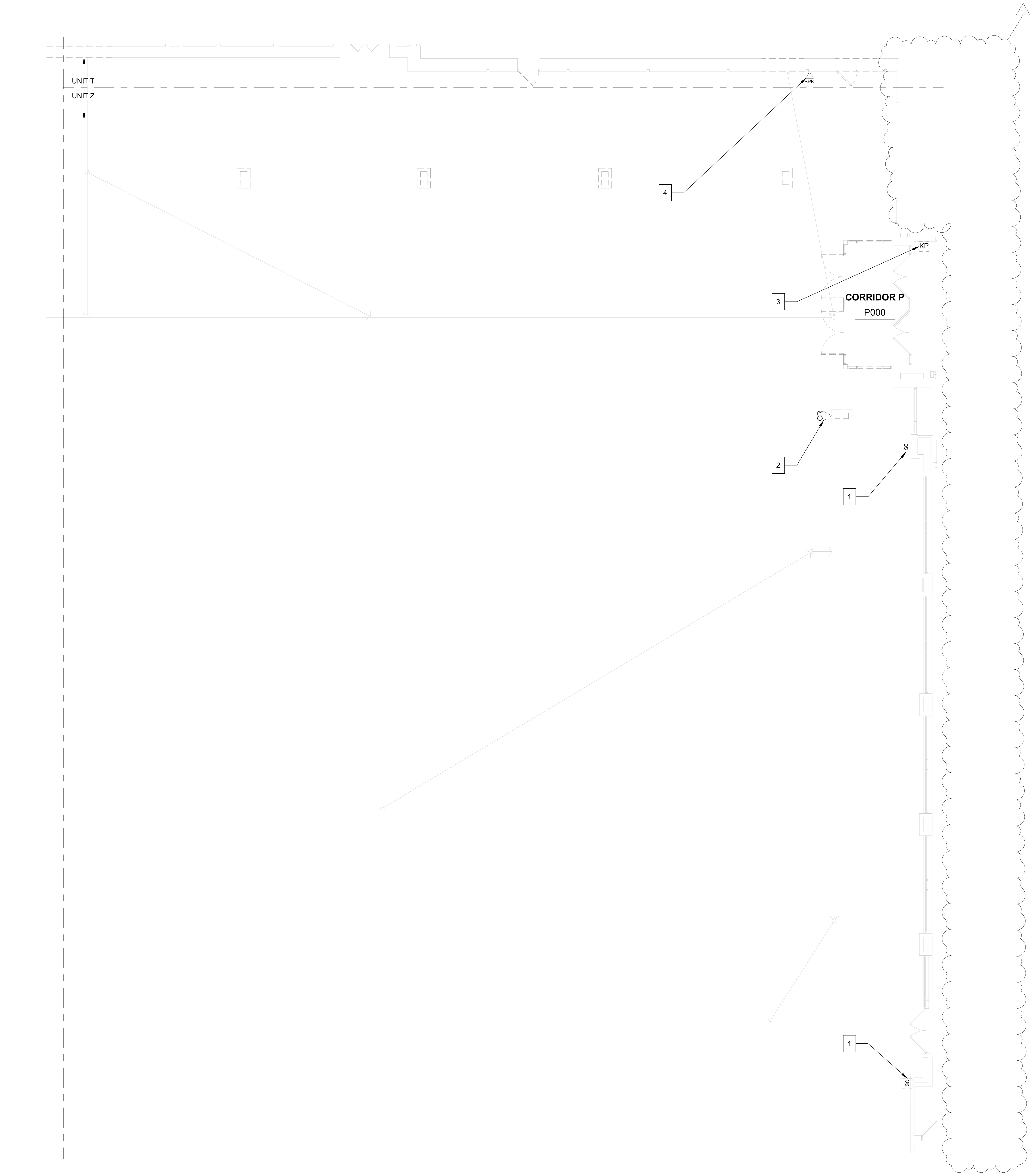
M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR DEMO PLAN - UNIT T

TD1T1.2

6 5 4 3 2 1



1 FIRST FLOOR DEMOLITION PLAN - UNIT Z
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AUD	AUDIO INPUT LOCATION
MIC	MICROPHONE INPUT LOCATION
M	CEILING MICROPHONE LOCATION
VC	VOLUME CONTROL LOCATION
S	PAGING SPEAKER LOCATION
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SC	SECURITY CAMERA - WALL MOUNTED
MS	MOTION SENSOR LOCATION
WS	WATER PRESENCE SENSOR LOCATION
PB	PANIC BUTTON LOCATION
D	DOOR RELEASE BUTTON LOCATION

SHEET NOTES

1. EXTERIOR SECURITY CAMERA SHALL BE REMOVED AND REUSED.
2. CARD READER SHALL BE REMOVED AND REUSED.
3. INTRUSION DETECTION KEYPAD LOCATION SHALL BE REMOVED AND REUSED.
4. EXTERIOR SPEAKER LOCATION SHALL BE REMOVED.

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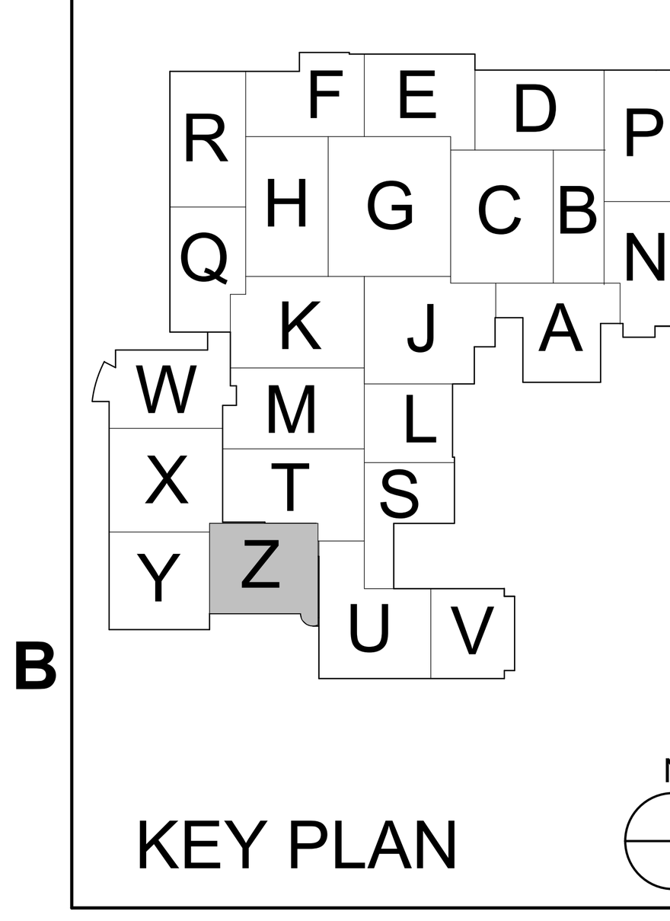


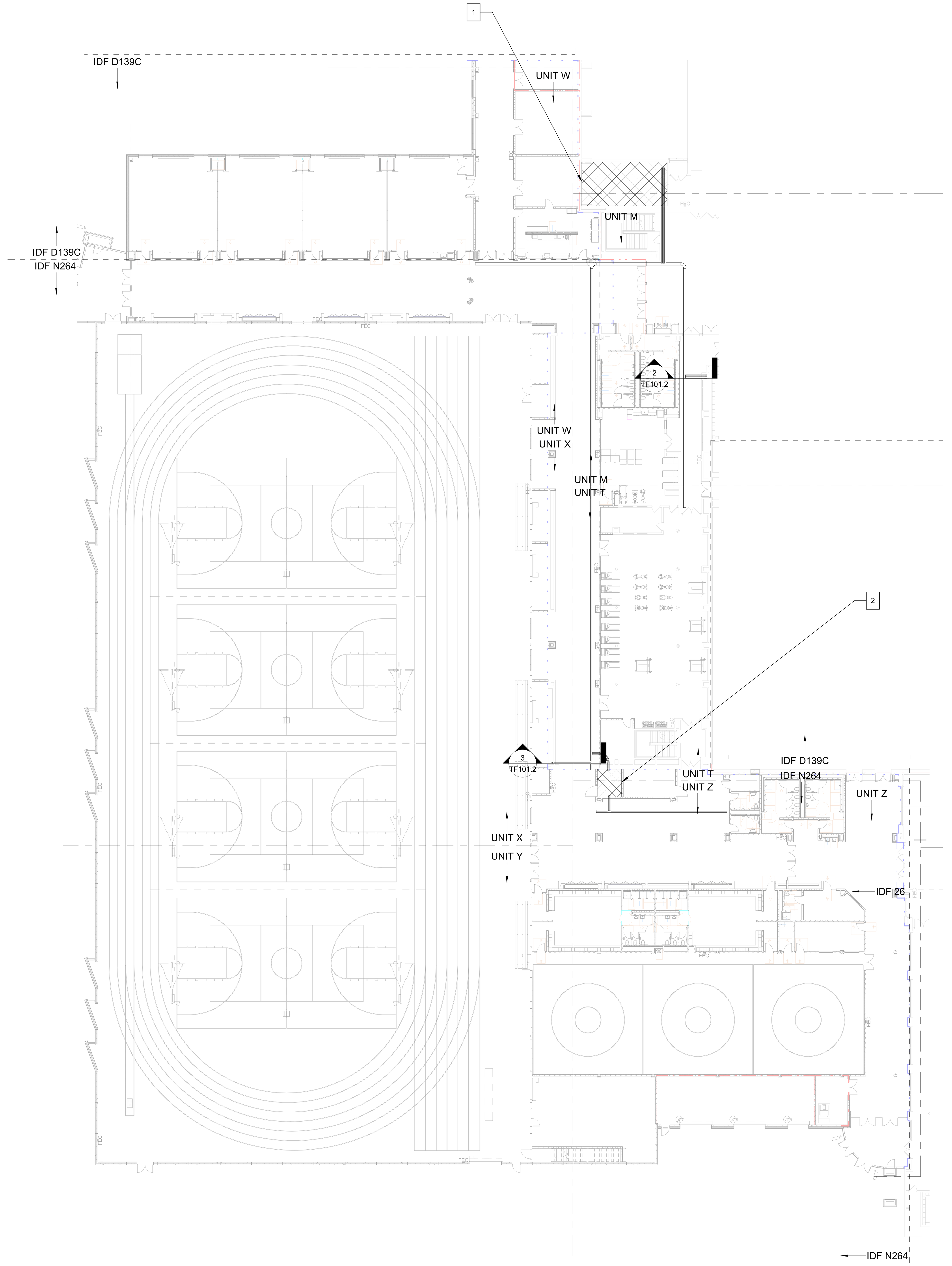
KEY PLAN

M.S.D. of Washington Township

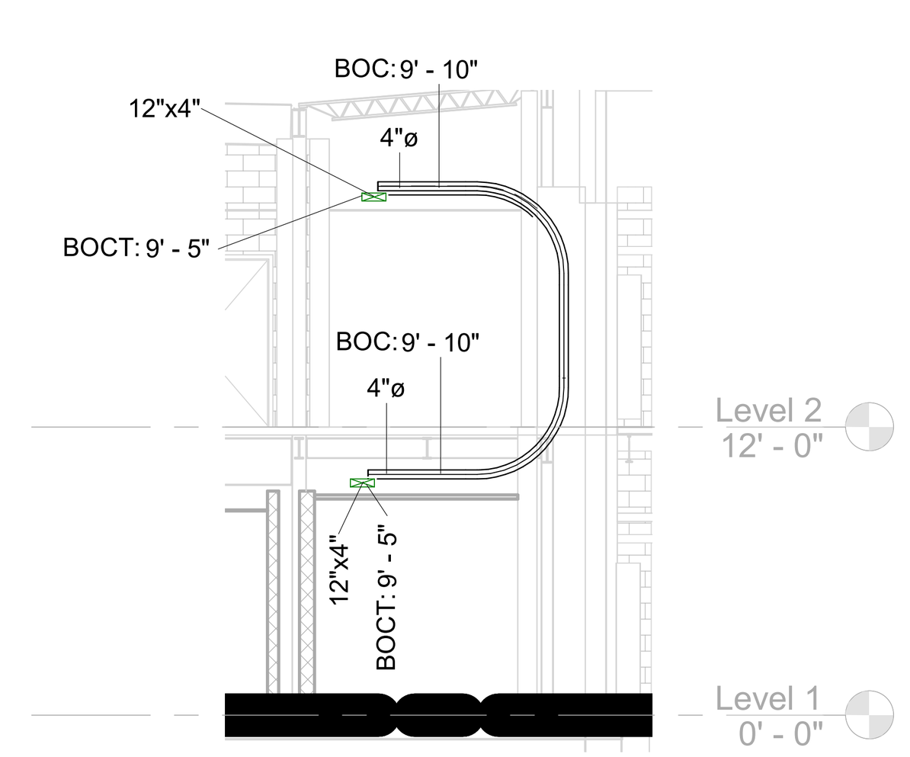
North Central High School Renovation - West Gym Addition

FIRST FLOOR DEMO PLAN - UNIT Z

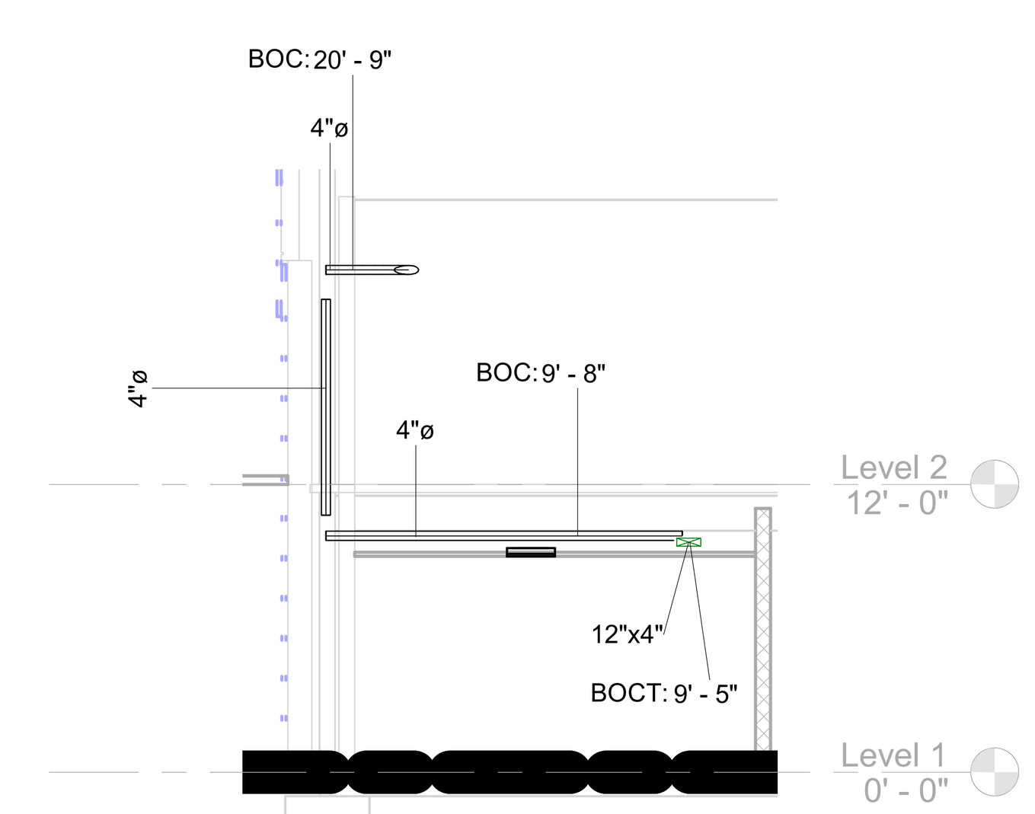
TD1Z1.2



FIRST FLOOR OVERALL DISTRIBUTION PLAN
1 — 3/64" = 1'-0"



2 — IDF D139C RISER CONDUIT
1/8" = 1'-0"



3 — IDF N264 RISER ELEVATION
1/8" = 1'-0"

GENERAL PATHWAYS NOTES

A ALL CABLING SHALL BE TERMINATED IN THE ER/TR NOTED IN THE TELECOM SCHEDULES.

B CONTRACTOR SHALL SUPPLY ALL CONDUIT, BOXES, AND CABLE TRAY AS REQUIRED TO ENSURE ALL TRANSMISSION MEDIA IS FULLY SUPPORTED FROM ALL DEVICE LOCATIONS TO THE POINT OF TERMINATION.

C ALL TELECOM PATHWAY SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED FROM AND ATTACHED TO THE BUILDING STRUCTURE.

D ALL TELECOM PATHWAY SYSTEMS SHALL BE COMPLETELY AND PROPERLY LABELED AS REQUIRED IN REFERENCED STANDARDS.

E CONDUIT SYSTEMS SHALL BE PROVIDED FOR ALL PATHWAYS IN INACCESIBLE CEILING SPACES AND WHERE EXPOSED TO PUBLIC VIEW. ALL CONDUIT SYSTEMS THROUGHOUT THE BUILDING SHALL INCLUDE PROPERLY SIZED SLEEVED PENETRATIONS THROUGH ALL BARRIERS.

F ALL TELECOM OUTLET BOXES SHALL BE A MINIMUM 4 11/16" SQUARE BOX NO LESS THAN 2 1/8" DEEP.

G CORRIDOR CABLE TRAY SHALL BE PROVIDED AS REQUIRED BY THE CONTRACT DRAWINGS. REFER TO DIVISION 27 SPECIFICATIONS FOR ADDITIONAL PRODUCT DETAILS AND REQUIREMENTS.

H CONTRACTOR SHALL NOT EXCEED 40% FILL RATIO WITHIN ANY CONDUIT MEANT FOR TELECOMMUNICATIONS CABLING.

I CONTRACTOR SHALL CALCULATE FILL RATIOS BASED ON ACTUAL CATEGORY 6A CABLING USED. TYPICAL FILL RATIOS FOR CATEGORY 6A CABLE ARE SHOWN HERE FOR REFERENCE PURPOSES ONLY:
1" EMT = 5 CABLES;
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A1.2

J CONDUIT RUNS SHALL BE NO LONGER THAN 100 FEET NOR SHALL CONTAIN MORE THAN TWO 90°BENDS BETWEEN PULLING POINTS. IF THE PATH OF THE CONDUIT RUN REQUIRES BENDS EXCEEDING A TOTAL OF 180°, INSTALLATION OF AN APPROPRIATELY SIZED JUNCTION BOX IS REQUIRED.

K CONTRACTOR SHALL PROVIDE FIRE STOPS TO SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, STAIRS, AND ELEVATORS AS NECESSARY TO MEET CODE REQUIREMENTS. FIRE STOPS SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.

L CONTRACTOR SHALL PROVIDE PROPERLY RATED FIRE STOP SYSTEMS FOR ALL CONDUIT AND/OR CABLE TRAY ENTERING THE TELECOMMUNICATIONS ROOMS. EACH CONTRACTOR IS RESPONSIBLE FOR SEALING PENETRATIONS AFTER EACH SCOPE OF WORK IS COMPLETED.

SHEET NOTES

1. EXISTING PE STORAGE D139C (IDF #7) LOCATION.
2. NEW IDF N264 (IDF #26) LOCATION.

SCHMIDT ASSOCIATES
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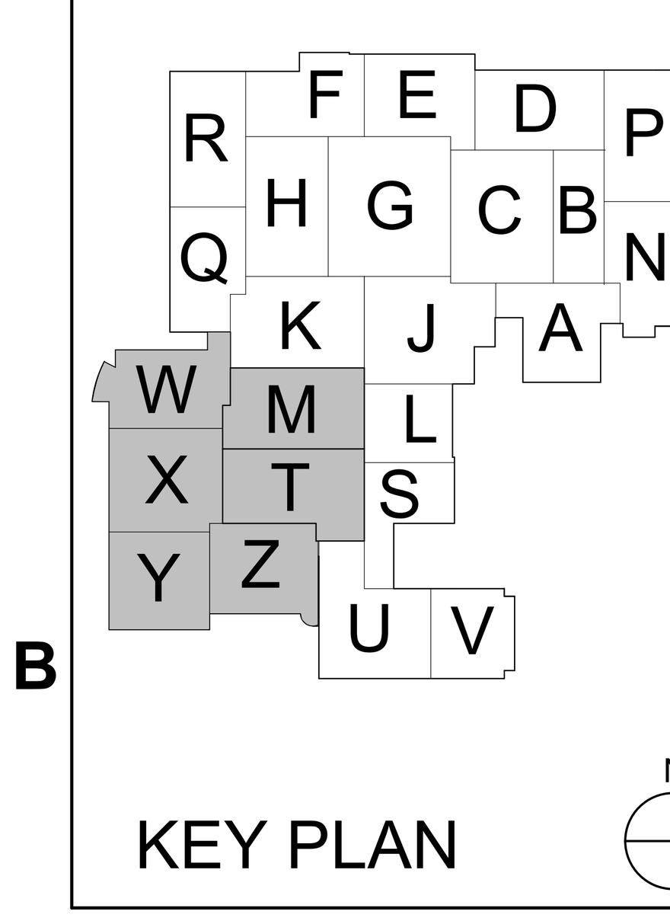

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR OVERALL DISTRIBUTION PLAN

TF101.2

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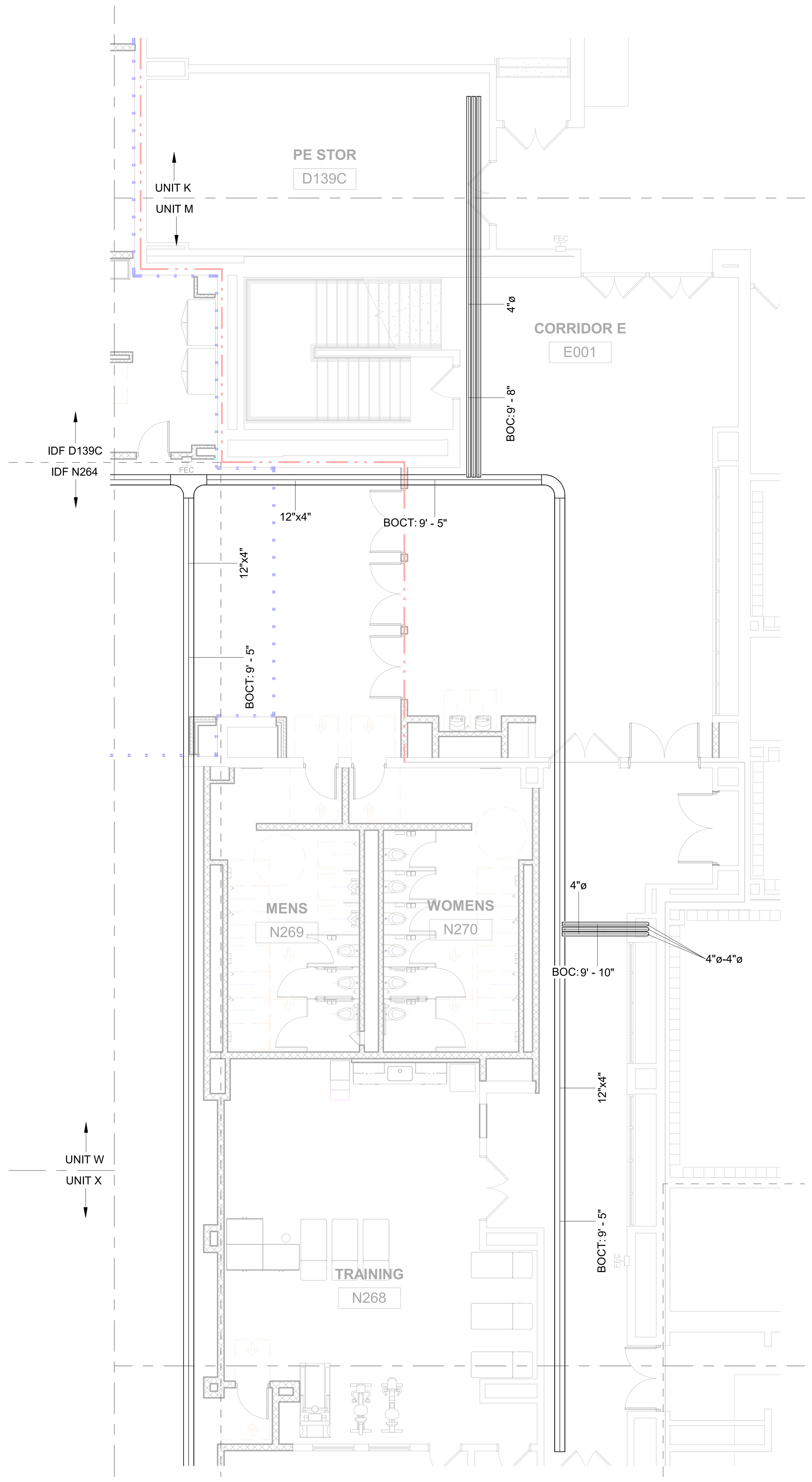

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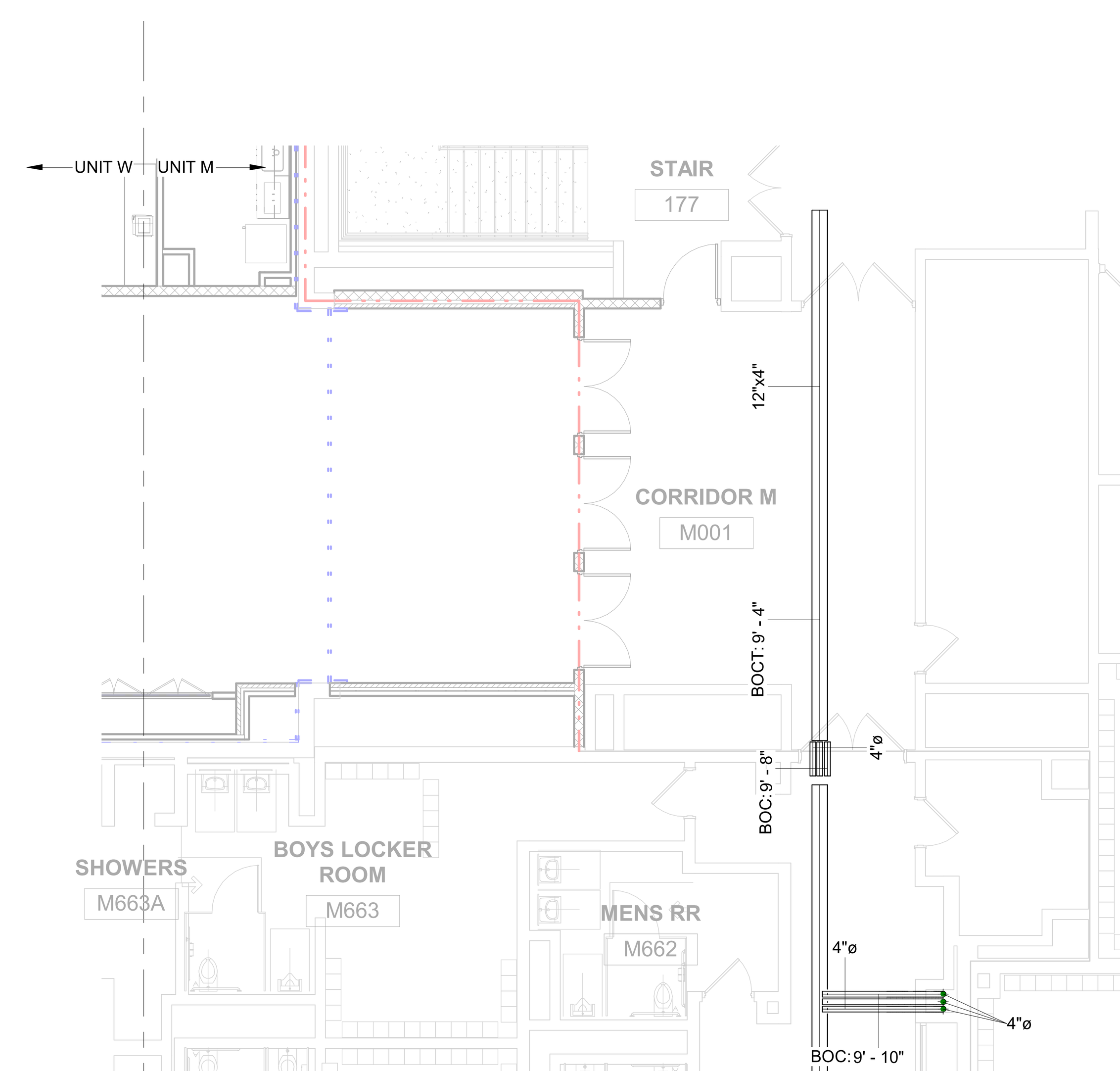

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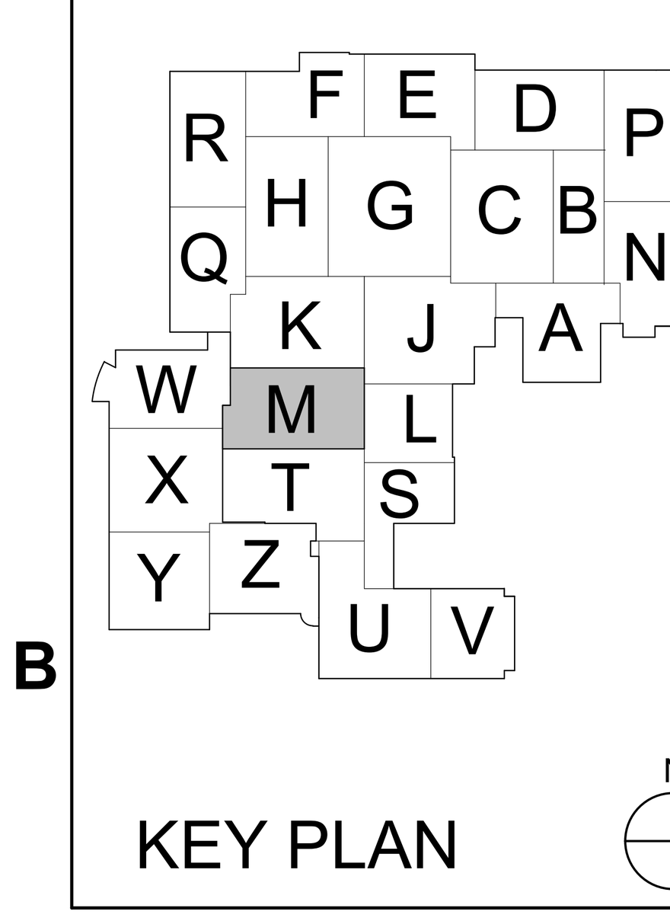

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M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST AND SECOND FLOOR DISTRIBUTION PLAN - UNIT M

TF1M1.2

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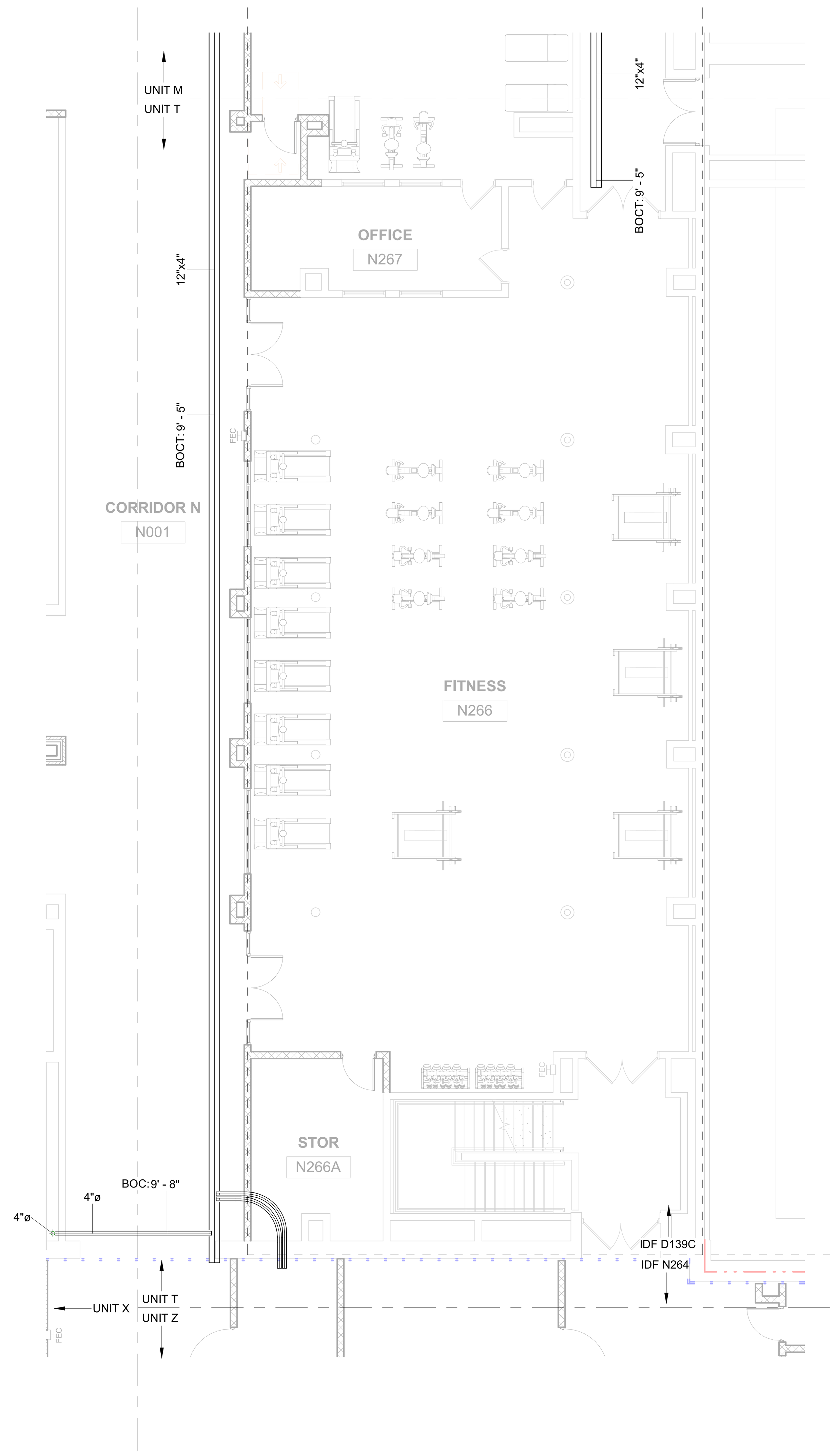


1 FIRST FLOOR DISTRIBUTION PLAN - UNIT T
1/8" = 1'-0"

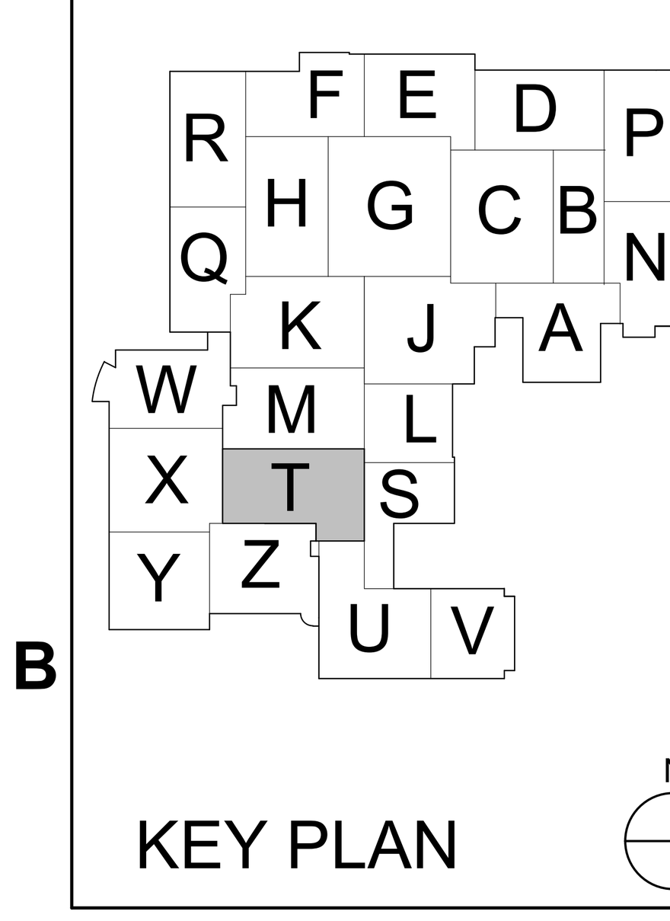
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced MJC D27

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Matthew Connolly
BICSI ID # 212593
EXPIRES 12-31-21
RCDD

#	Revision	Date
A1.2	Addendum 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR DISTRIBUTION PLAN - UNIT T

TF1T1.2

GENERAL PATHWAYS NOTES

A ALL CABLING SHALL BE TERMINATED IN THE ER/TR NOTED IN THE TELECOM SCHEDULES.

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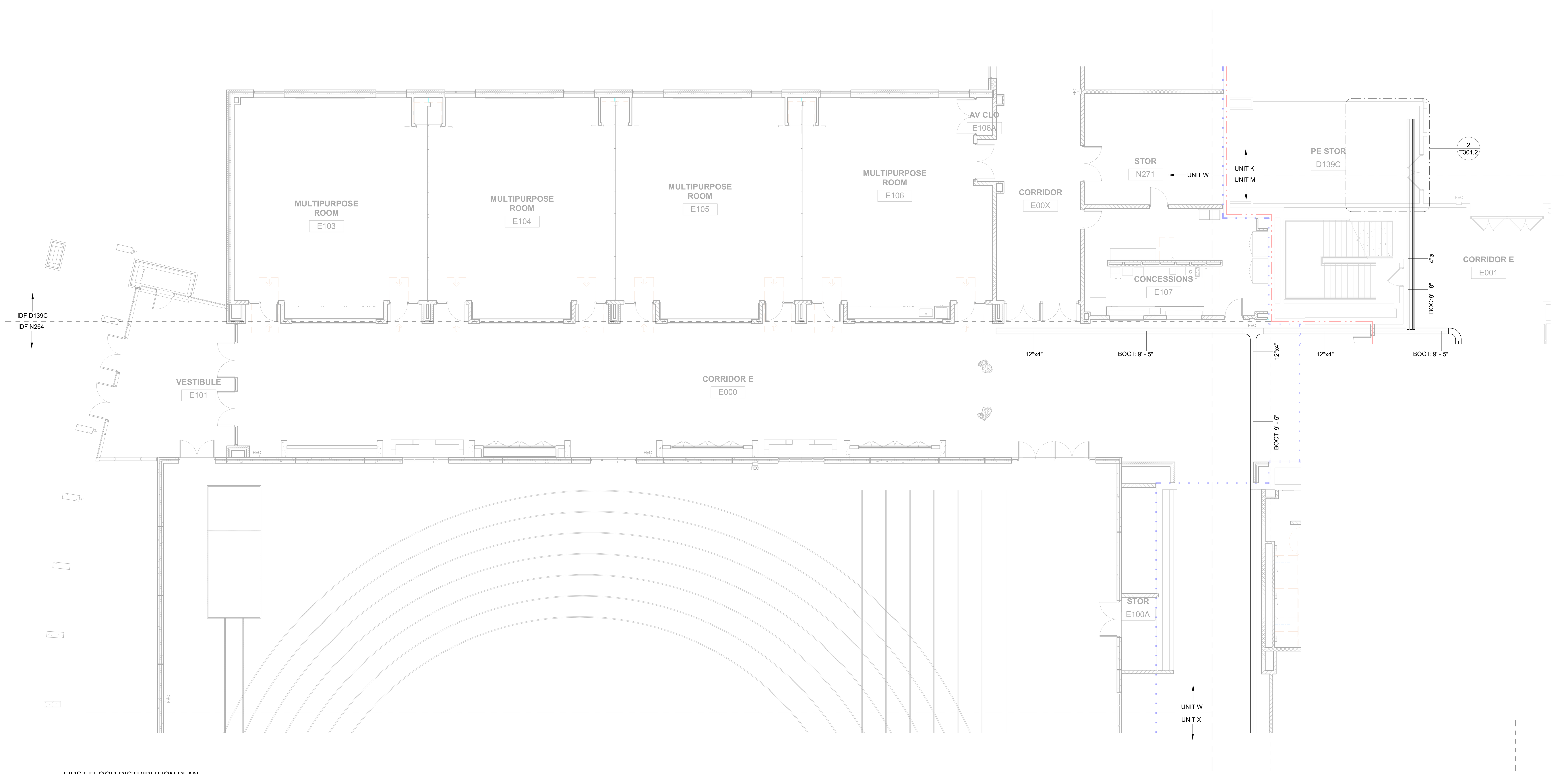

1 FIRST FLOOR DISTRIBUTION PLAN - UNIT W
1/8" = 1'-0"

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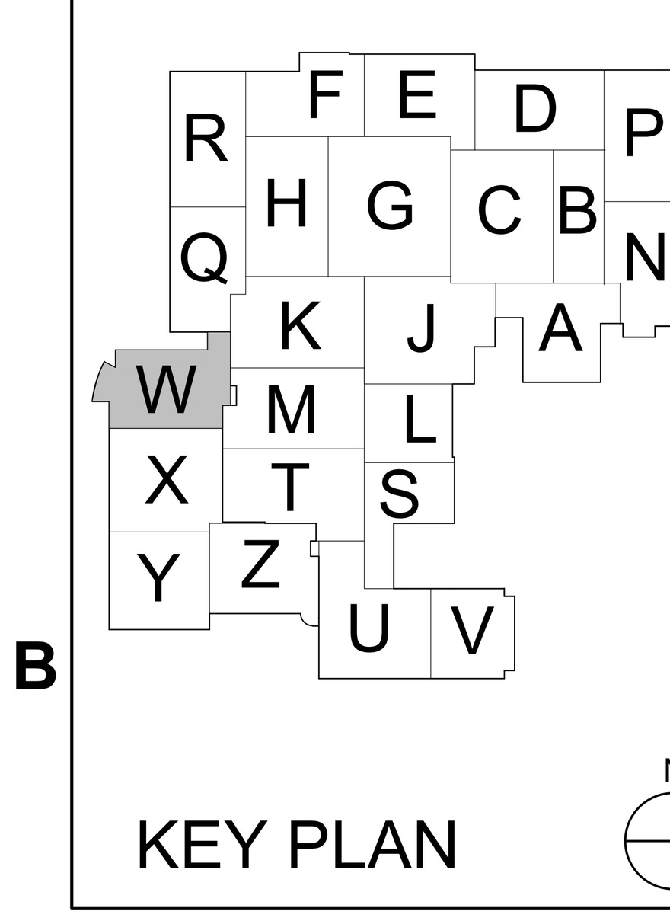


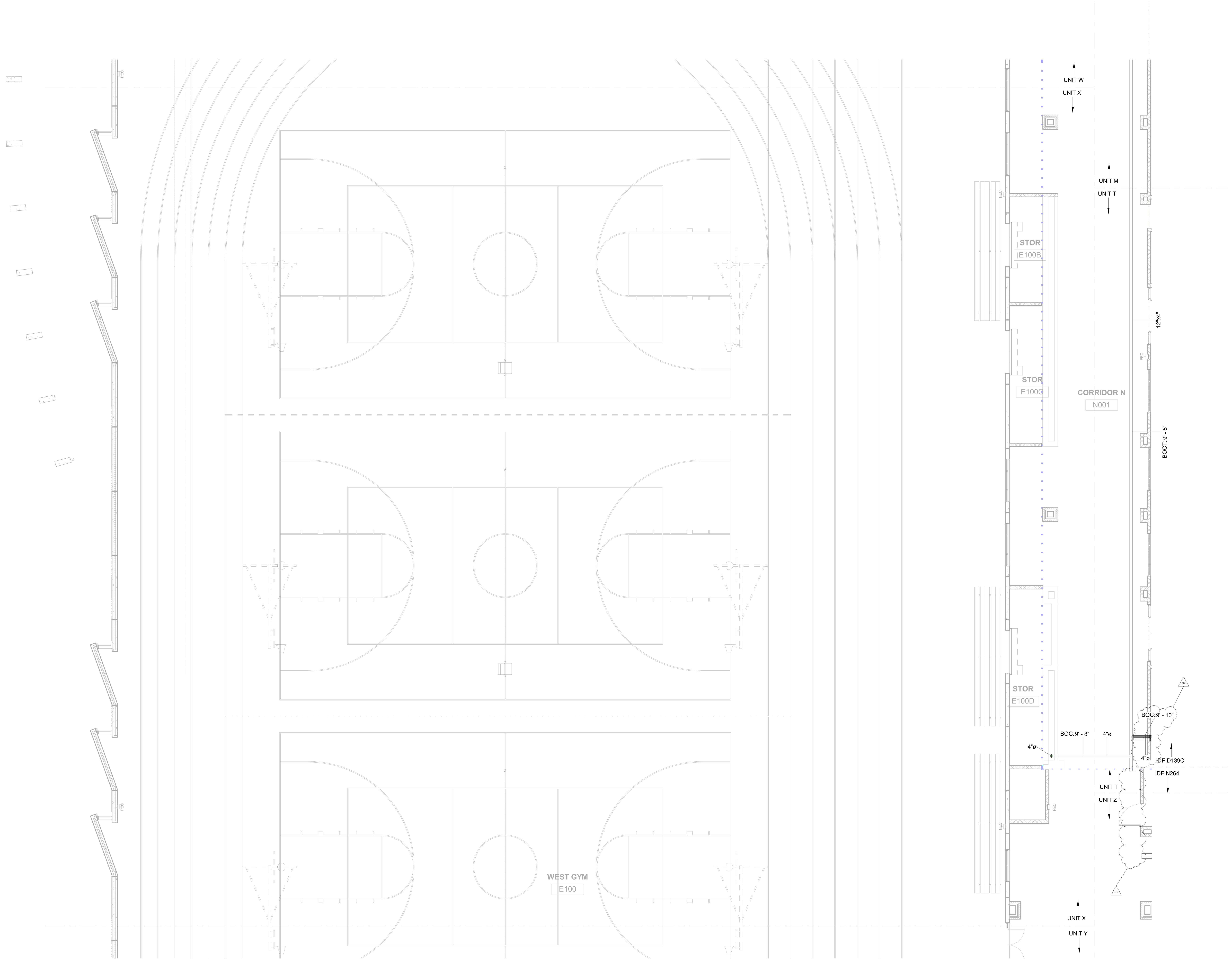
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR DISTRIBUTION PLAN - UNIT W

TF1W1.2



FIRST FLOOR DISTRIBUTION PLAN - UNIT X
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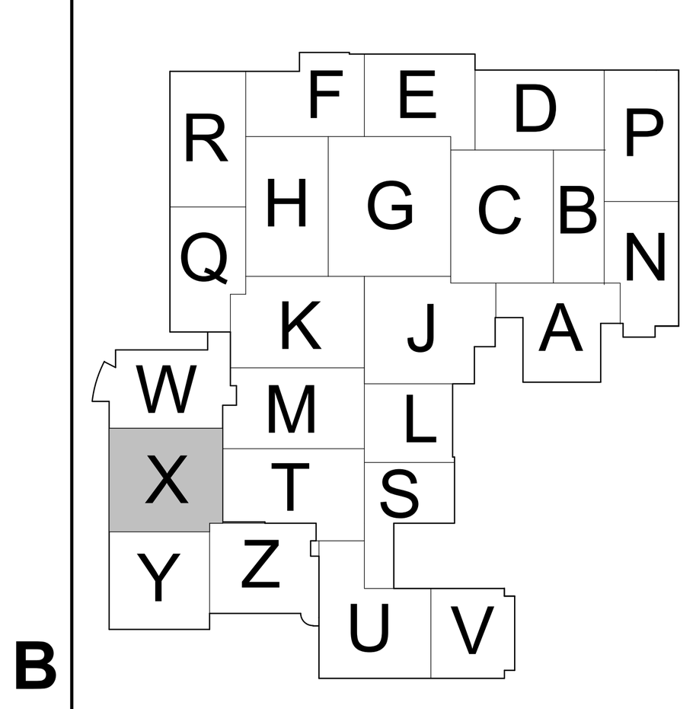


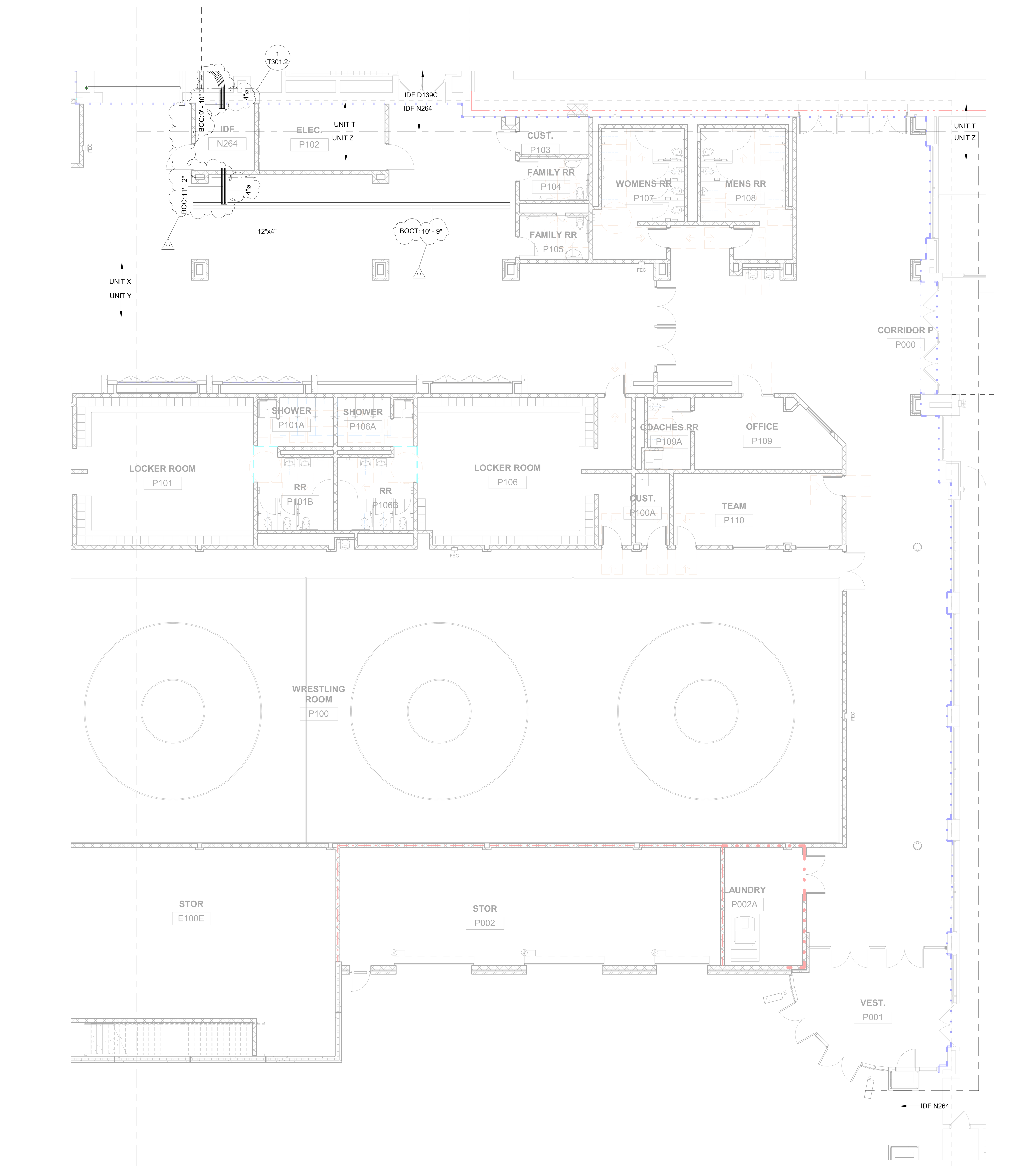
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR DISTRIBUTION PLAN - UNIT X

TF1X1.2



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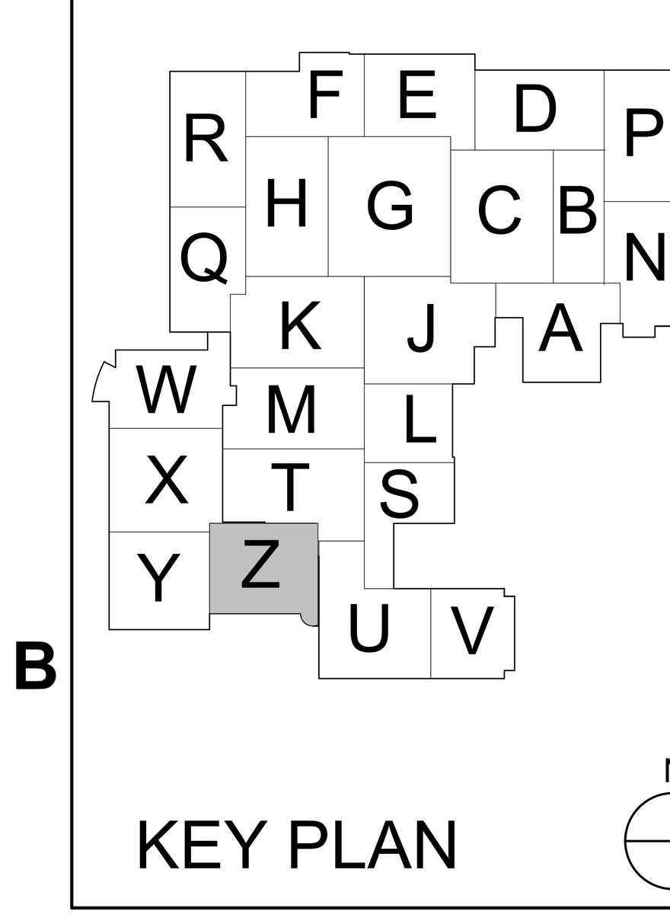


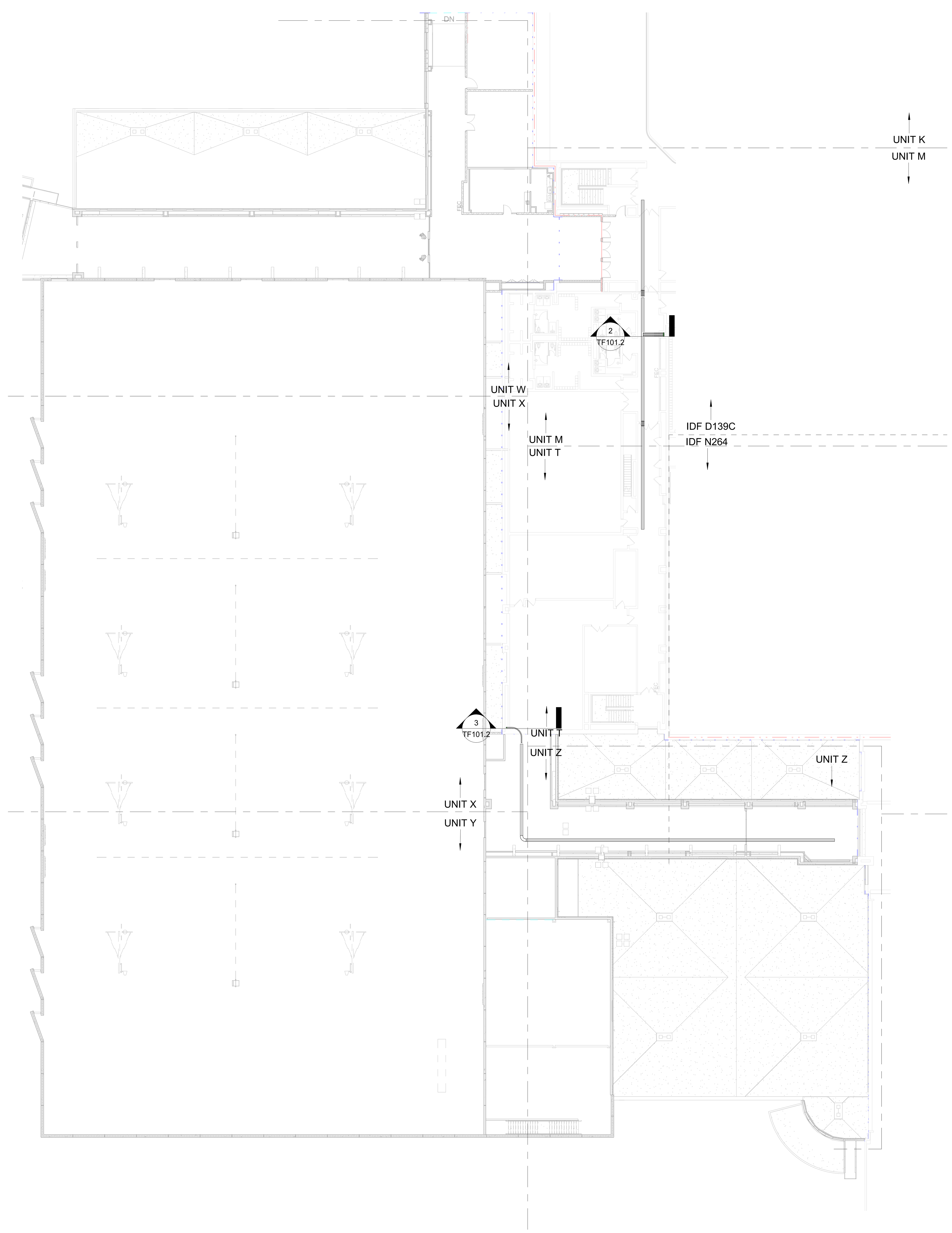
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR DISTRIBUTION PLAN - UNIT Z

TF1Z1.2



1 SECOND FLOOR OVERALL DISTRIBUTION PLAN
3/64" = 1'-0"

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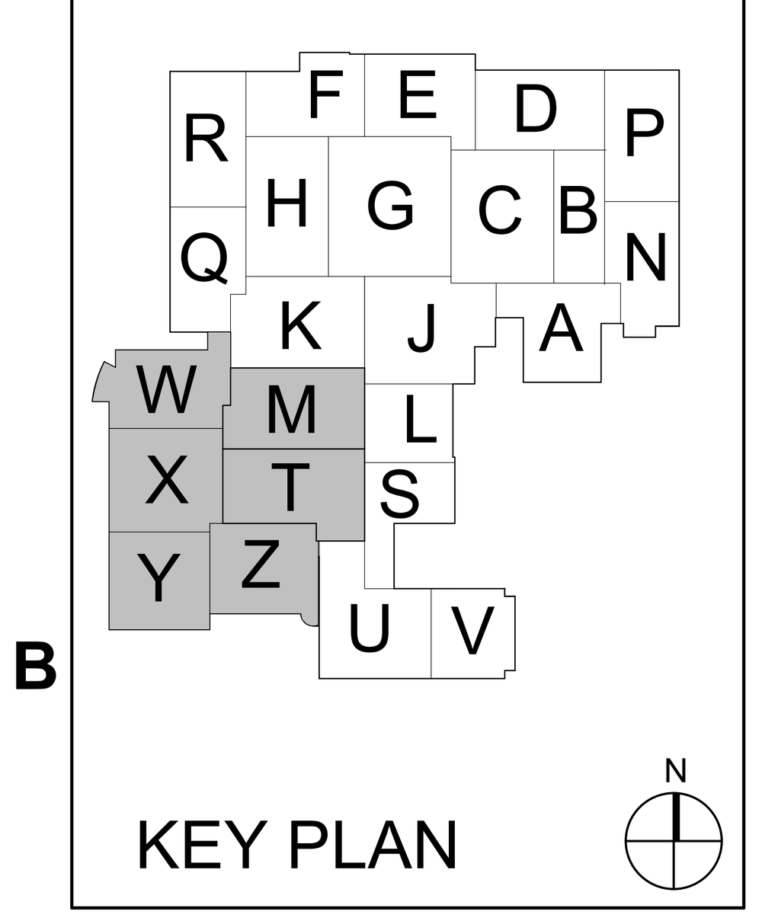


KEY PLAN

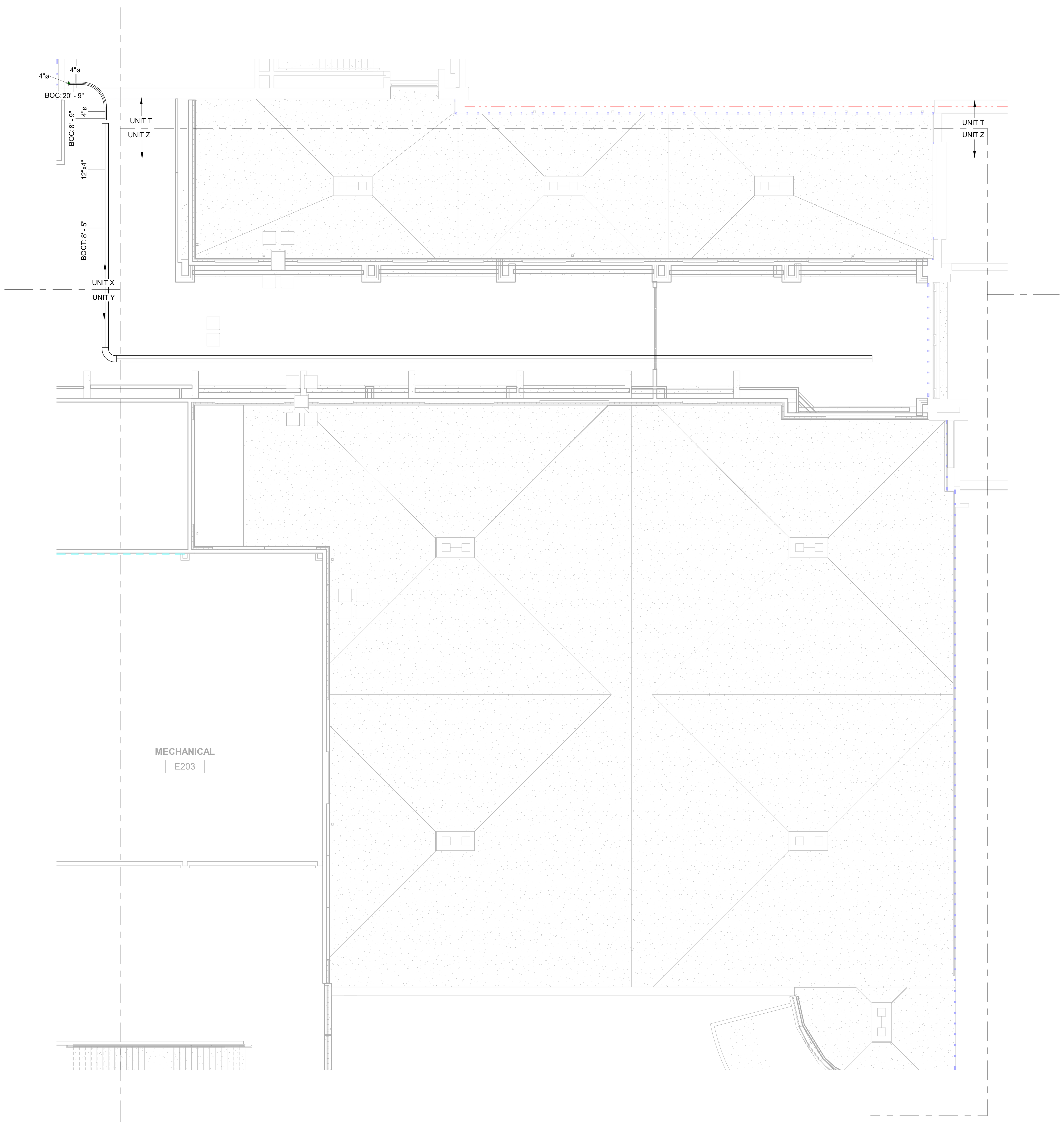
M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SECOND FLOOR OVERALL DISTRIBUTION PLAN

TF102.2

6 5 4 3 2 1



1 SECOND FLOOR DISTRIBUTION PLAN - UNIT Z
1/8" = 1'-0"

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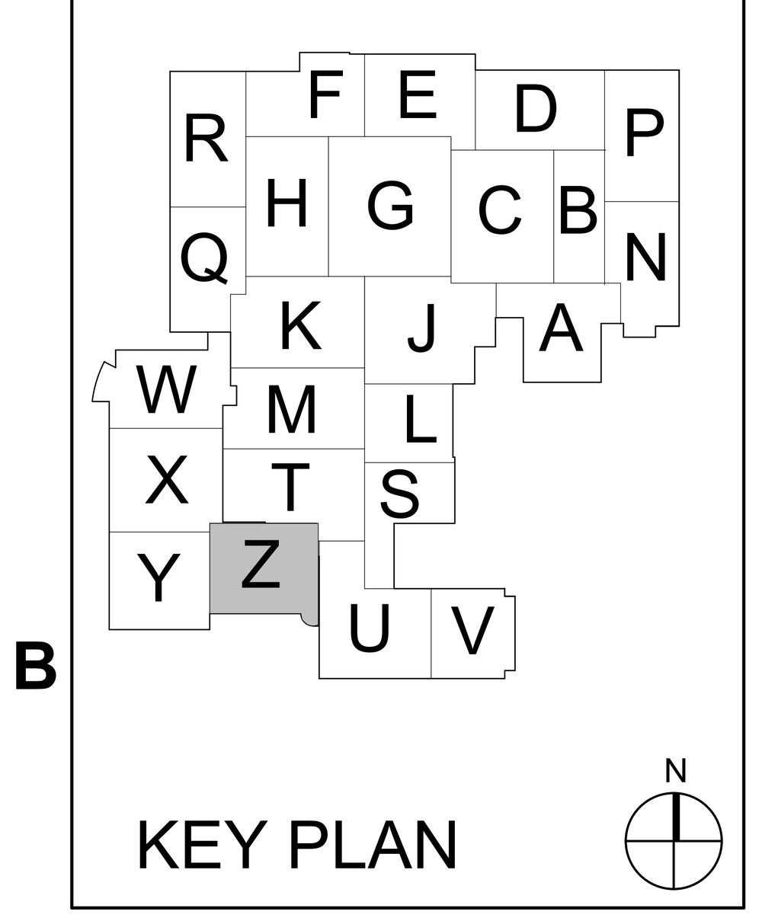


KEY PLAN

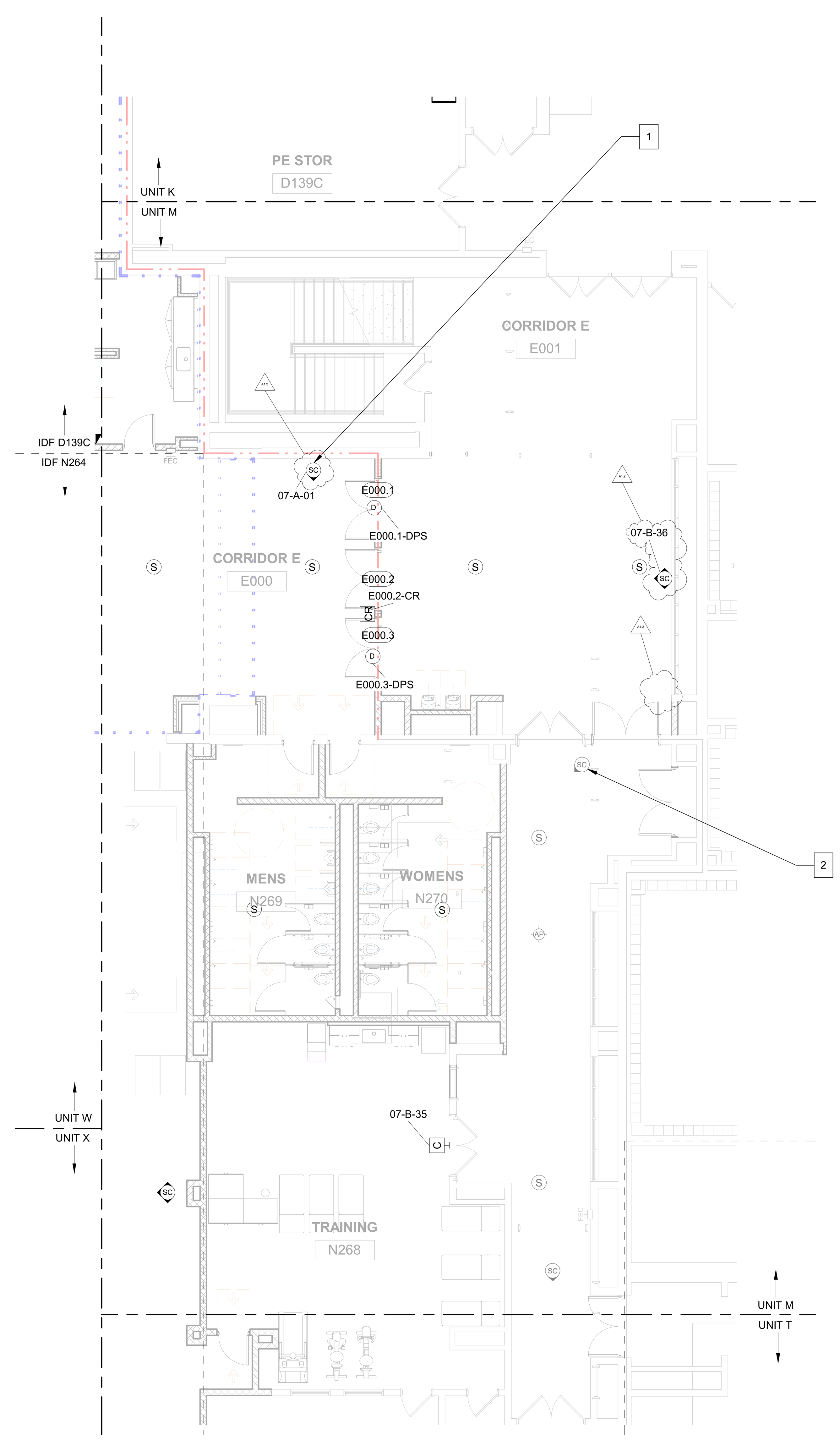
M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

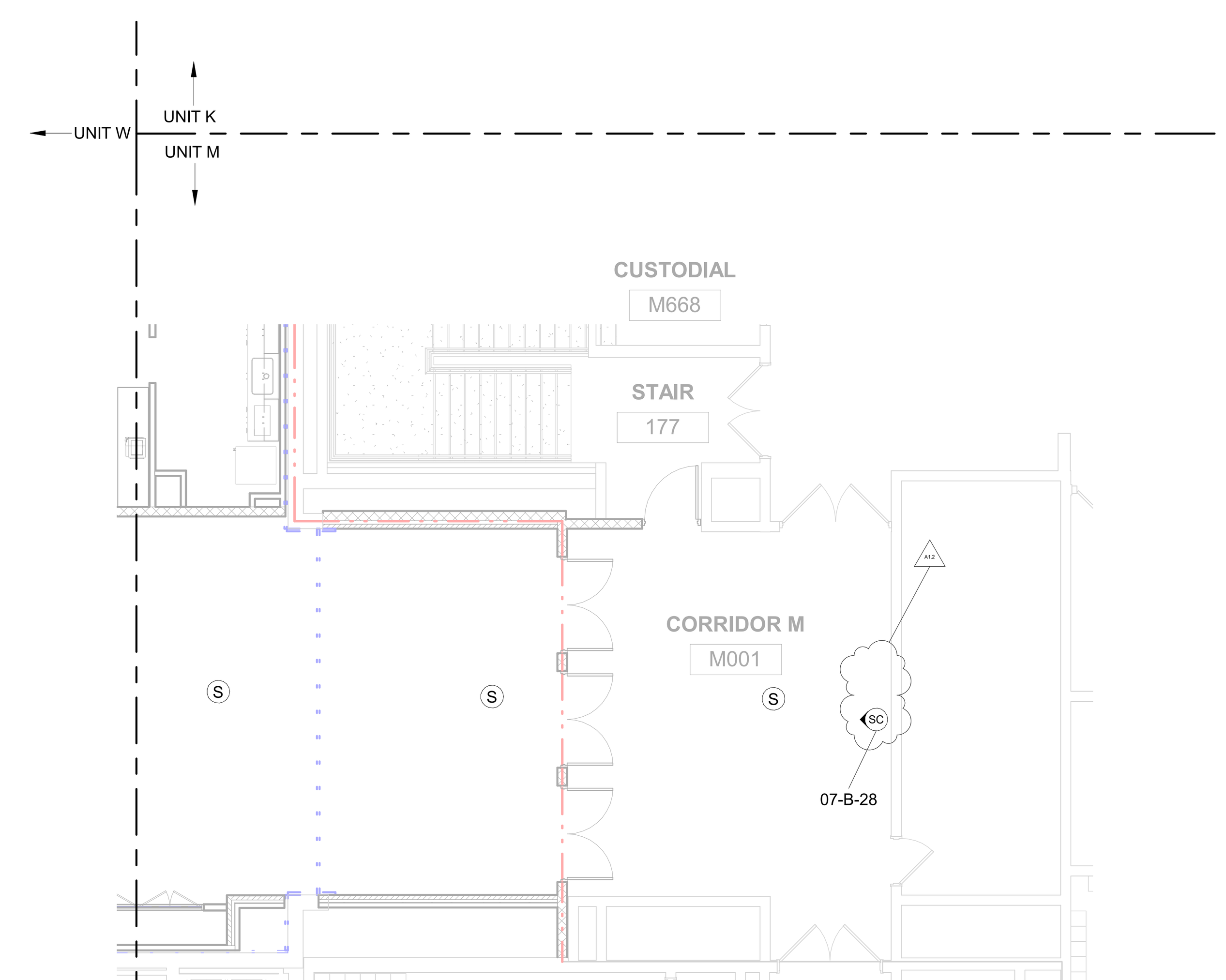
SECOND FLOOR DISTRIBUTION PLAN - UNIT Z

TF1Z2.2

6 5 4 3 2 1



FIRST FLOOR TELECOM PLAN - UNIT M
1/8" = 1'-0"



SECOND FLOOR TELECOM PLAN - UNIT M
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

- A MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
- B MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
- C PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.
- D PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.
- E ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.
- F REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS.
- G LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.
- H PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.
- I ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TELECOM LEGEND

- DATA VOICE LOCATION - FLUSH MOUNTED
- DATA VOICE LOCATION - SURFACE MOUNTED
- DATA ROUGH-IN LOCATION
- MON M — MOBILE MONITOR LOCATION (OFOI)
- AV — AV INPUT ROUGH-IN LOCATION
- AV — AV INPUT LOCATION - FLUSH MOUNTED
- AV — AV INPUT LOCATION - SURFACE MOUNTED
- CTL — AV CONTROL ROUGH-IN LOCATION
- CTL — AV CONTROL LOCATION - FLUSH MOUNTED
- CTL — AV CONTROL LOCATION - SURFACE MOUNTED
- WP — WALL PHONE LOCATION - FLUSH MOUNTED
- WP — WALL PHONE LOCATION - SURFACE MOUNTED
- VC — VOLUME CONTROL LOCATION - FLUSH MOUNTED
- VC — VOLUME CONTROL LOCATION - SURFACE MOUNTED
- FB — FLOORBOX LOCATION
- AV — AV FLOORBOX LOCATION
- DS — DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
- DS — DIGITAL SIGNAGE LOCATION - SURFACE MOUNTED
- MON — MONITOR LOCATION - FLUSH MOUNTED
- MON — MONITOR LOCATION - SURFACE MOUNTED
- RS — ROOM SCHEDULER LOCATION - FLUSH MOUNTED
- RS — ROOM SCHEDULER ROUGH-IN LOCATION
- P — PROJECTOR LOCATION
- STP — SHORT THROW PROJECTOR ROUGH-IN LOCATION
- STP — SHORT THROW PROJECTOR - FLUSH MOUNTED
- STP — SHORT THROW PROJECTOR - SURFACE MOUNTED
- AP — WIRELESS ACCESS POINT - CEILING MOUNTED
- AP — WIRELESS ACCESS POINT - WALL MOUNTED
- C — CLOCK LOCATION - FLUSH MOUNTED
- C — CLOCK LOCATION - SURFACE MOUNTED
- C C — DUAL SIDED CLOCK LOCATION
- IR — IR MICROPHONE LOCATION
- MIC — MICROPHONE INPUT LOCATION - FLUSH MOUNTED
- MIC — MICROPHONE INPUT LOCATION - SURFACE MOUNTED
- M — CEILING MICROPHONE LOCATION
- S — PAGING SPEAKER LOCATION
- S — PROGRAM AUDIO SPEAKER LOCATION
- SPK — PROGRAM AUDIO SPEAKER - WALL MOUNTED
- SPK — PAGING SPEAKER - WALL MOUNTED
- LC — LOUDSPEAKER JUNCTION BOX LOCATION
- A/V RACK — AV EQUIPMENT RACK LOCATION
- BR — BLUETOOTH RECEIVER ANTENNA LOCATION
- AUD — AUDIO INPUT LOCATION - FLUSH MOUNTED
- AUD — AUDIO INPUT LOCATION - SURFACE MOUNTED
- HA — HEARING ASSIST ANTENNA - FLUSH MOUNTED
- HA — HEARING ASSIST ANTENNA - SURFACE MOUNTED
- WA — WIRELESS MIC ANTENNA - FLUSH MOUNTED
- WA — WIRELESS MIC ANTENNA - SURFACE MOUNTED
- TS — TOUCHSCREEN LOCATION - FLUSH MOUNTED
- TS — TOUCHSCREEN LOCATION - SURFACE MOUNTED
- KP — INTRUSION DETECTION KEYPAD LOCATION
- CR — CARD READER LOCATION
- CR — MULLION MOUNTED CARD READER LOCATION
- SC — SECURITY CAMERA - CEILING MOUNTED
- SC — SECURITY CAMERA - WALL MOUNTED
- MS — MOTION SENSOR LOCATION
- WS — WATER PRESENCE SENSOR LOCATION
- PB — PANIC BUTTON LOCATION
- D — DOOR POSITION SWITCH LOCATION
- MS — VIDEO INTERCOM MASTER STATION
- VI — VIDEO INTERCOM DOOR STATION

SHEET NOTES

1. RELOCATED SECURITY CAMERA #1.
2. EXISTING SECURITY CAMERA.

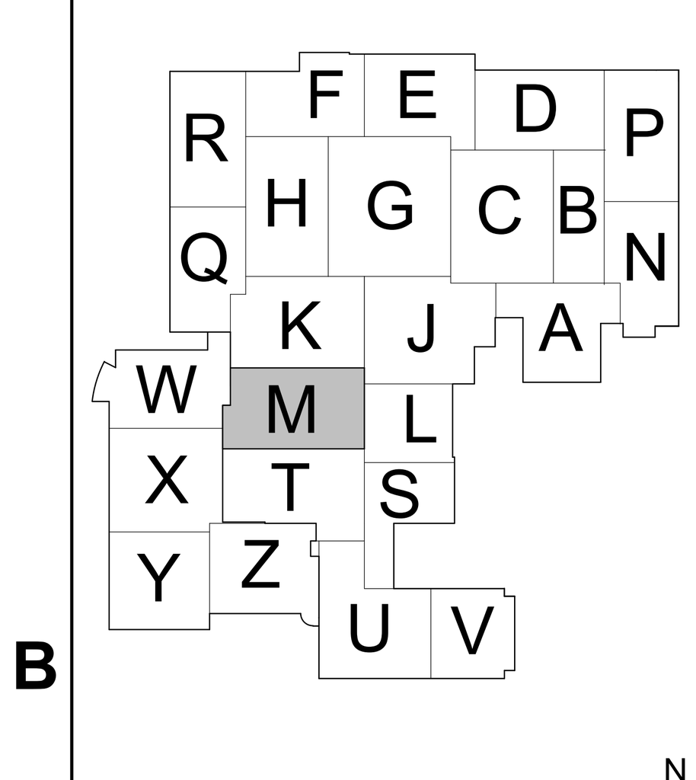
SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced MJC D27

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Matthew Connolly
BICSI ID # 212593
EXPIRES 12-31-21
RCDD

#	Revision	Date
A1.2	Addendum 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



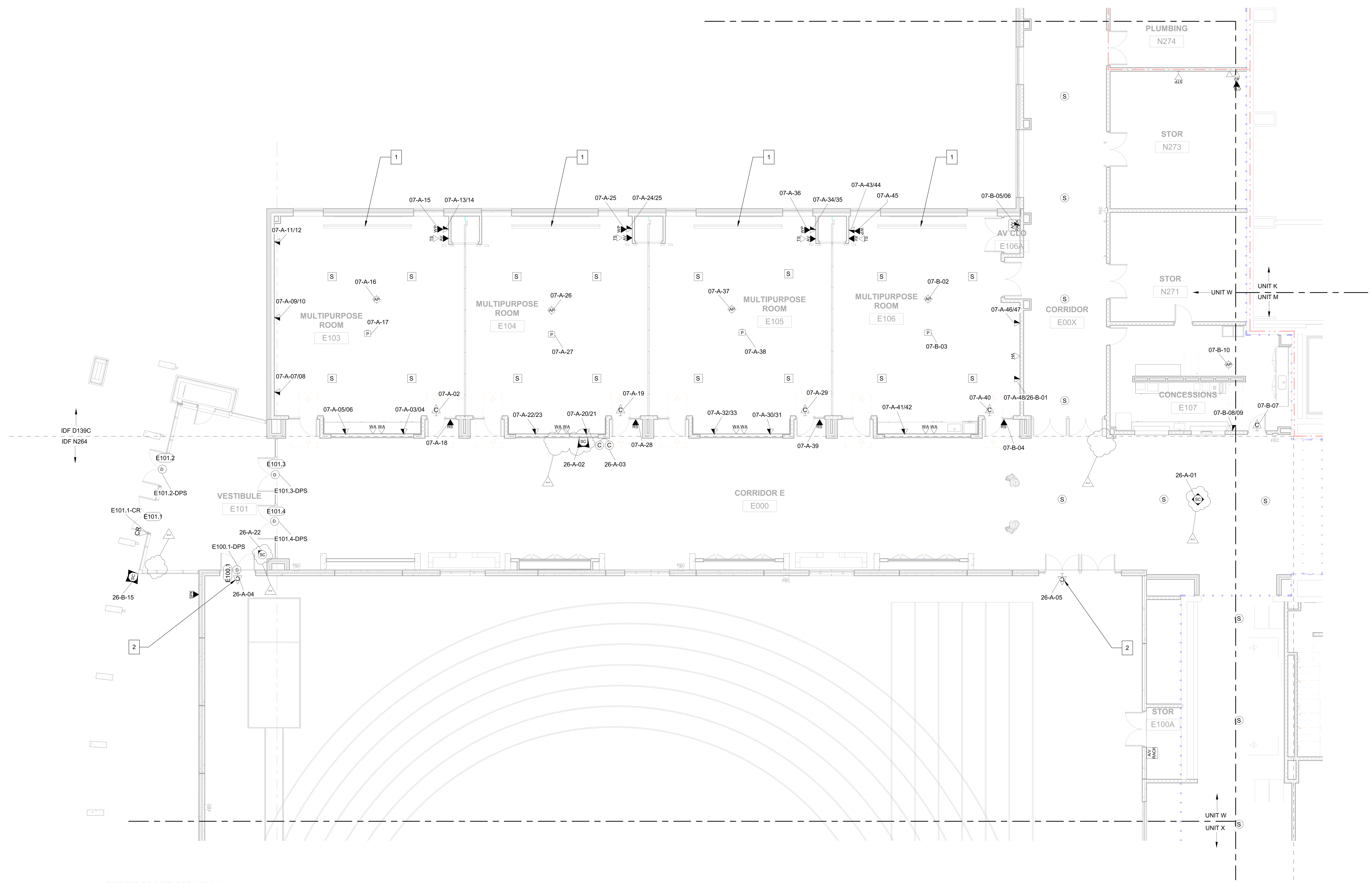
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST AND SECOND FLOOR TELECOM PLAN - UNIT M

TF2M1.2



1 FIRST FLOOR TELECOM PLAN - UNIT W
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

A MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.

B MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.

C PAINTING OF THE STRUCTURED CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL STRUCTURED CABLING IS PROTECTED PRIOR TO ANY PAINTING.

D PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.

E ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.

F REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS.

G LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.

H PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.

I ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

TELECOM LEGEND

- DATA VOICE LOCATION - FLUSH MOUNTED
- DATA VOICE LOCATION - SURFACE MOUNTED
- DATA ROUGH-IN LOCATION
- MOBILE MONITOR LOCATION (OFOI)
- AV INPUT ROUGH-IN LOCATION
- AV INPUT LOCATION - FLUSH MOUNTED
- AV INPUT LOCATION - SURFACE MOUNTED
- AV CONTROL ROUGH-IN LOCATION
- AV CONTROL LOCATION - FLUSH MOUNTED
- AV CONTROL LOCATION - SURFACE MOUNTED
- WALL PHONE LOCATION - FLUSH MOUNTED
- WALL PHONE LOCATION - SURFACE MOUNTED
- VOLUME CONTROL LOCATION - FLUSH MOUNTED
- VOLUME CONTROL LOCATION - SURFACE MOUNTED
- FLOORBOX LOCATION
- AV FLOORBOX LOCATION
- DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
- DIGITAL SIGNAGE LOCATION - SURFACE MOUNTED
- MONITOR LOCATION - FLUSH MOUNTED
- MONITOR LOCATION - SURFACE MOUNTED
- ROOM SCHEDULER LOCATION - FLUSH MOUNTED
- ROOM SCHEDULER ROUGH-IN LOCATION
- PROJECTOR LOCATION
- SHORT THROW PROJECTOR ROUGH-IN LOCATION
- SHORT THROW PROJECTOR - FLUSH MOUNTED
- SHORT THROW PROJECTOR - SURFACE MOUNTED
- WIRELESS ACCESS POINT - CEILING MOUNTED
- WIRELESS ACCESS POINT - WALL MOUNTED
- CLOCK LOCATION - FLUSH MOUNTED
- CLOCK LOCATION - SURFACE MOUNTED
- DUAL SIDED CLOCK LOCATION
- IR MICROPHONE LOCATION
- MICROPHONE INPUT LOCATION - FLUSH MOUNTED
- MICROPHONE INPUT LOCATION - SURFACE MOUNTED
- CEILING MICROPHONE LOCATION
- PAGING SPEAKER LOCATION
- PROGRAM AUDIO SPEAKER LOCATION
- PROGRAM AUDIO SPEAKER - WALL MOUNTED
- PAGING SPEAKER - WALL MOUNTED
- LOUDSPEAKER JUNCTION BOX LOCATION
- AV EQUIPMENT RACK LOCATION
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- CR CARD READER LOCATION
- CR MULLION MOUNTED CARD READER LOCATION
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- MS VIDEO INTERCOM MASTER STATION
- VI VIDEO INTERCOM DOOR STATION

SHEET NOTES

1. NEW 189" PROJECTION SCREEN RECESSED WITHIN CEILING.
2. CONTRACTOR SHALL INSTALL PLEXIGLASS COVERS OVER CLOCK LOCATION.

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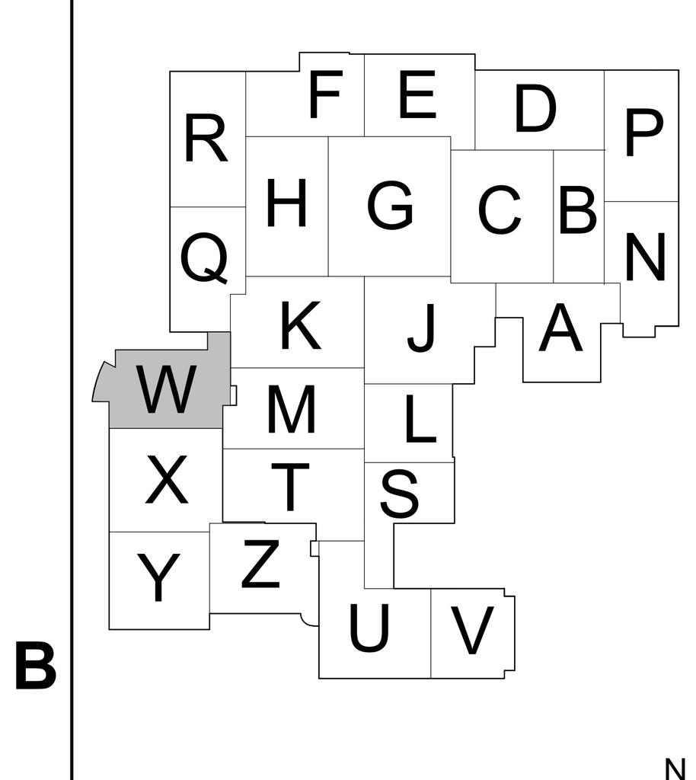


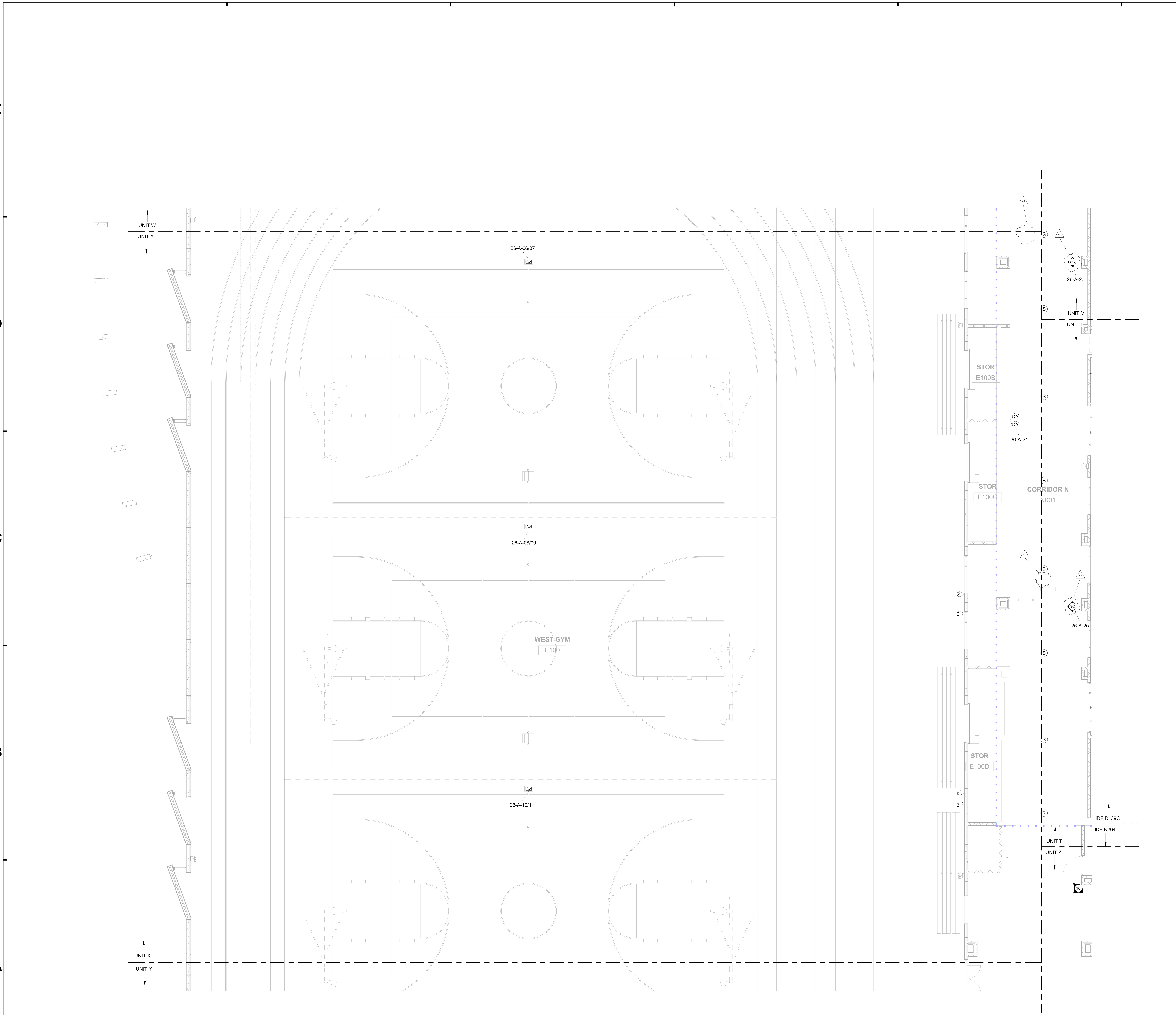
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR TELECOM PLAN - UNIT W

TF2W1.2



FIRST FLOOR TELECOM PLAN - UNIT X
1/8" = 1'-0"

GENERAL HORIZONTAL CABLING NOTES

- A MINIMUM CATEGORY 6A COMPLIANT 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.
- B MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.
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- DATA ROUGH-IN LOCATION
- MOBILE MONITOR LOCATION (OFOI)
- AV INPUT ROUGH-IN LOCATION
- AV INPUT LOCATION - FLUSH MOUNTED
- AV INPUT LOCATION - SURFACE MOUNTED
- AV CONTROL ROUGH-IN LOCATION
- AV CONTROL LOCATION - FLUSH MOUNTED
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- WALL PHONE LOCATION - SURFACE MOUNTED
- VOLUME CONTROL LOCATION - FLUSH MOUNTED
- VOLUME CONTROL LOCATION - SURFACE MOUNTED
- FLOORBOX LOCATION
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- DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
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1801 East 86th Street
Indianapolis, IN 46240

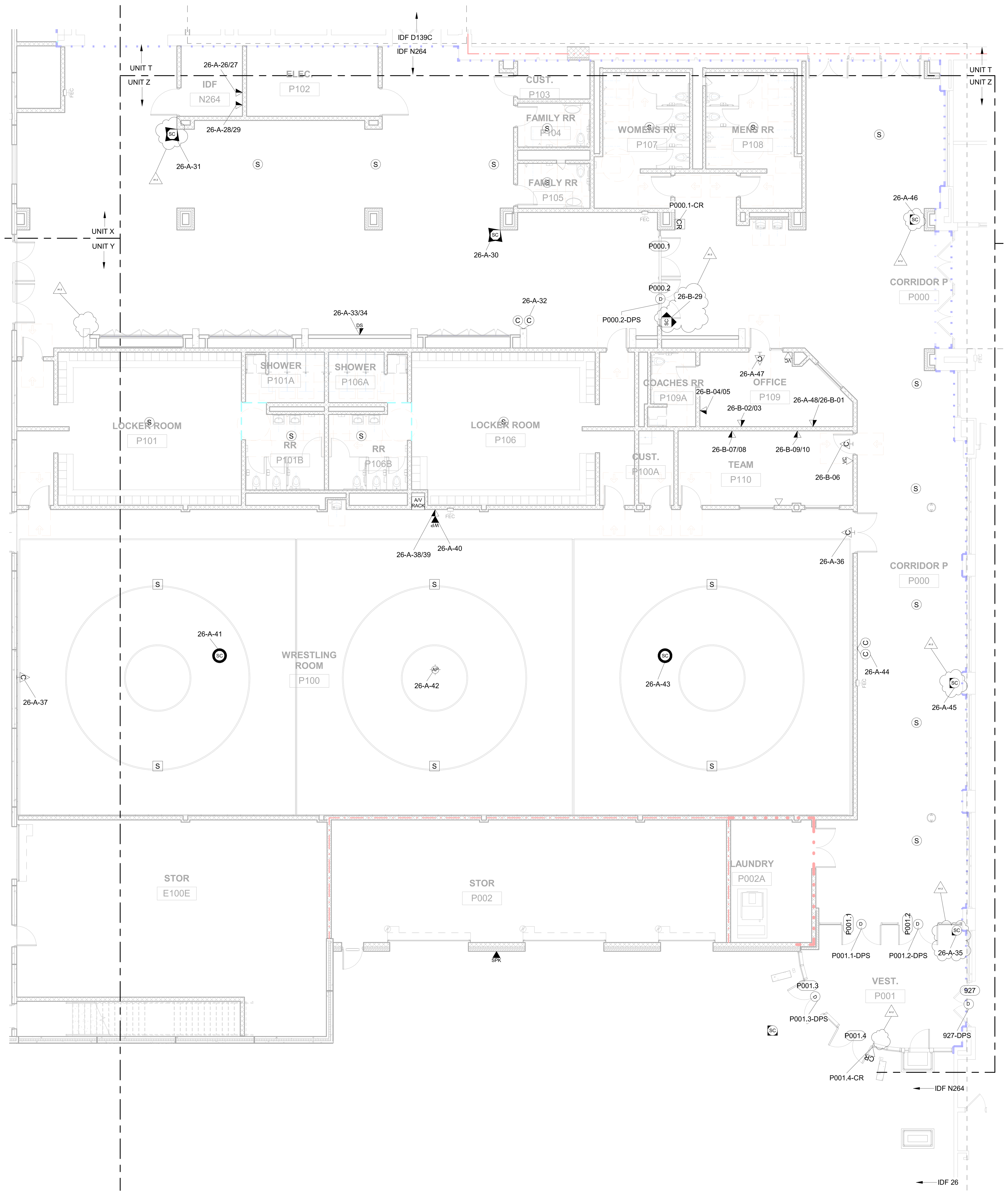
KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR TELECOM PLAN - UNIT X

TF2X1.2



FIRST FLOOR TELECOM PLAN - UNIT Z
1/8" = 1'-0"

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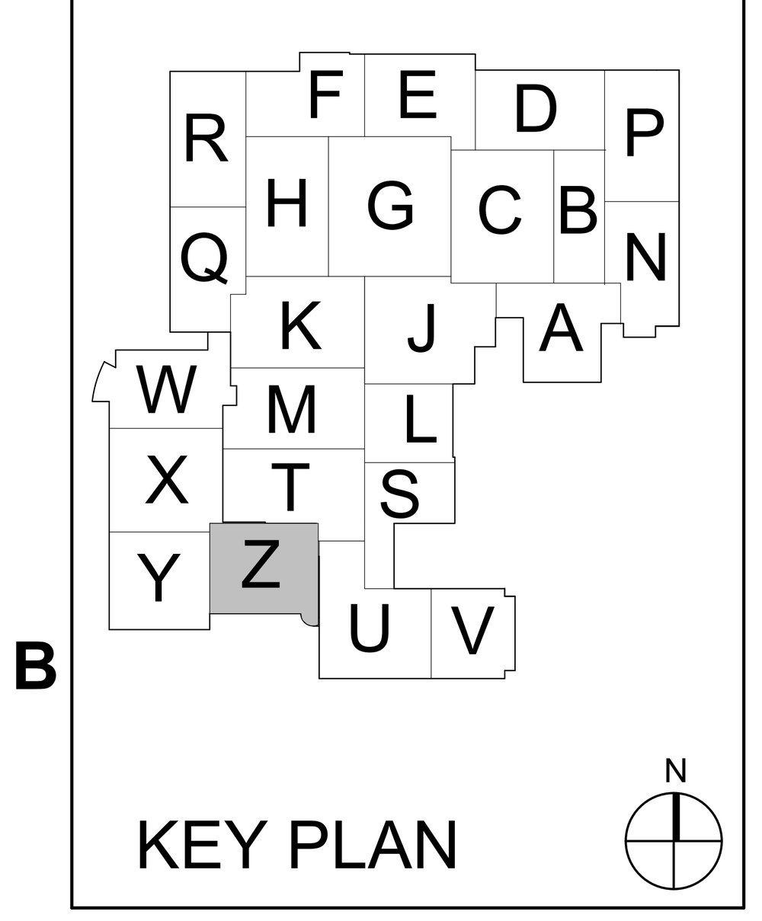

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

FIRST FLOOR TELECOM PLAN - UNIT Z

TF2Z1.2

6 5 4 3 2 1

GENERAL HORIZONTAL CABLING NOTES

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TELECOM LEGEND

Symbol	Description
	DATA VOICE LOCATION - FLUSH MOUNTED
	DATA VOICE LOCATION - SURFACE MOUNTED
	DATA ROUGH-IN LOCATION
MON M	MOBILE MONITOR LOCATION (OFOI)
AV	AV INPUT ROUGH-IN LOCATION
AV	AV INPUT LOCATION - FLUSH MOUNTED
AV	AV INPUT LOCATION - SURFACE MOUNTED
CTL	AV CONTROL ROUGH-IN LOCATION
CTL	AV CONTROL LOCATION - FLUSH MOUNTED
CTL	AV CONTROL LOCATION - SURFACE MOUNTED
WP	WALL PHONE LOCATION - FLUSH MOUNTED
WP	WALL PHONE LOCATION - SURFACE MOUNTED
VC	VOLUME CONTROL LOCATION - FLUSH MOUNTED
VC	VOLUME CONTROL LOCATION - SURFACE MOUNTED
FB	FLOORBOX LOCATION
AV	AV FLOORBOX LOCATION
DS	DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
DS	DIGITAL SIGNAGE LOCATION - SURFACE MOUNTED
MON	MONITOR LOCATION - FLUSH MOUNTED
MON	MONITOR LOCATION - SURFACE MOUNTED
RS	ROOM SCHEDULER LOCATION - FLUSH MOUNTED
RS	ROOM SCHEDULER ROUGH-IN LOCATION
P	PROJECTOR LOCATION
STP	SHORT THROW PROJECTOR ROUGH-IN LOCATION
STP	SHORT THROW PROJECTOR - FLUSH MOUNTED
STP	SHORT THROW PROJECTOR - SURFACE MOUNTED
AP	WIRELESS ACCESS POINT - CEILING MOUNTED
AP	WIRELESS ACCESS POINT - WALL MOUNTED
C	CLOCK LOCATION - FLUSH MOUNTED
C	CLOCK LOCATION - SURFACE MOUNTED
C C	DUAL SIDED CLOCK LOCATION
IR	IR MICROPHONE LOCATION
MIC	MICROPHONE INPUT LOCATION - FLUSH MOUNTED
MIC	MICROPHONE INPUT LOCATION - SURFACE MOUNTED
M	CEILING MICROPHONE LOCATION
S	PAGING SPEAKER LOCATION
S	PROGRAM AUDIO SPEAKER LOCATION
SPK	PROGRAM AUDIO SPEAKER - WALL MOUNTED
SPK	PAGING SPEAKER - WALL MOUNTED
LC	LOUDSPEAKER JUNCTION BOX LOCATION
A/V RACK	AV EQUIPMENT RACK LOCATION
BR	BLUETOOTH RECEIVER ANTENNA LOCATION
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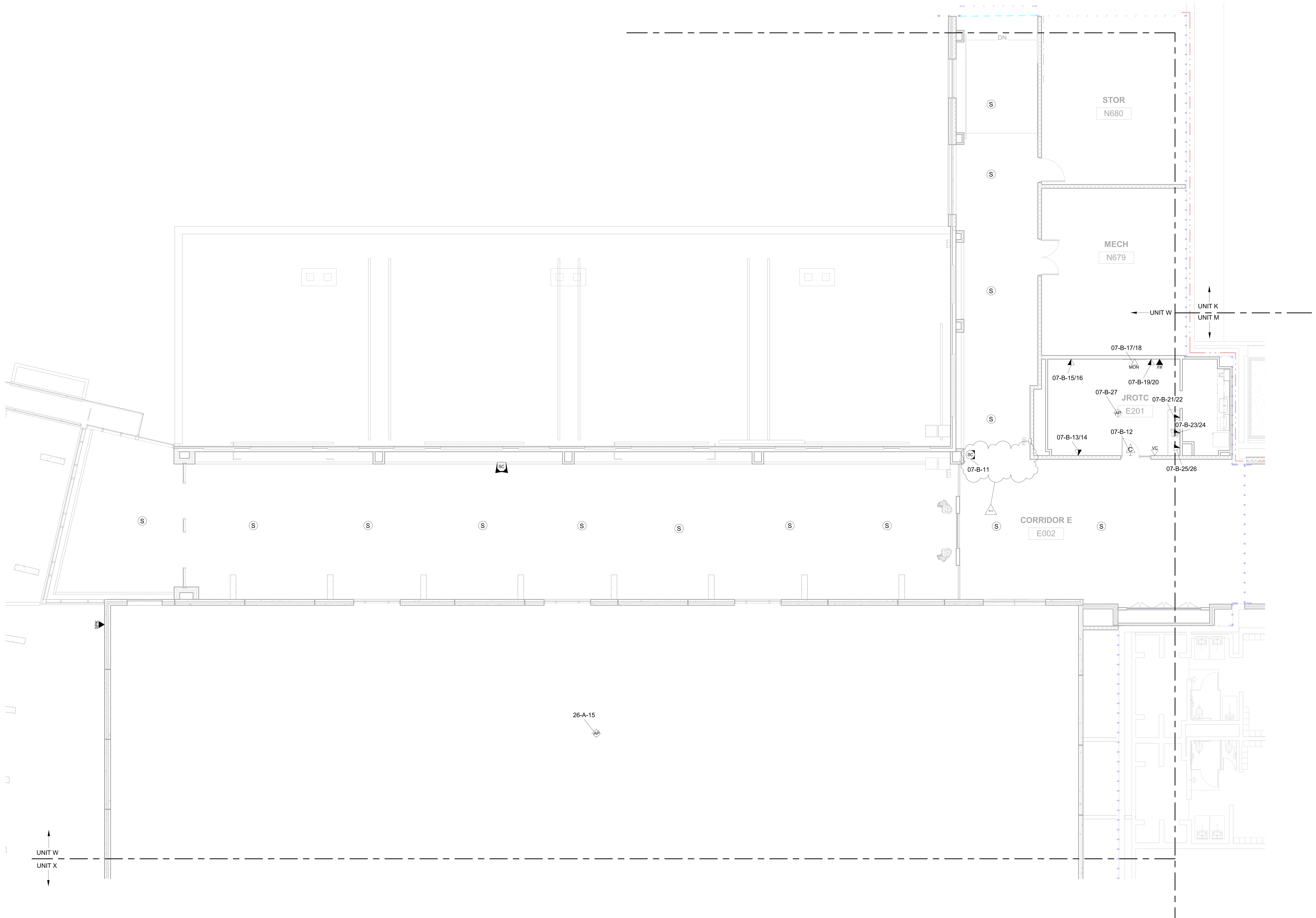

1 SECOND FLOOR TELECOM PLAN - UNIT W
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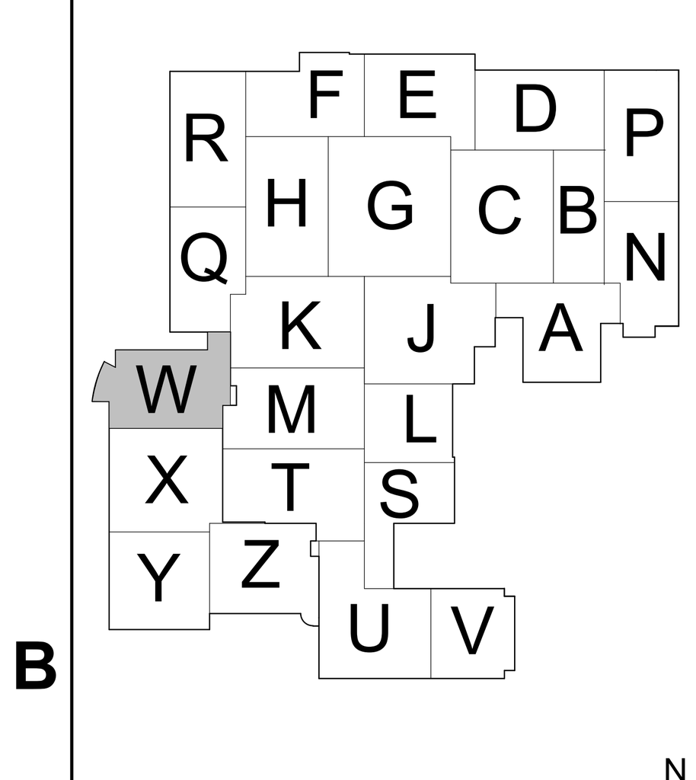

KEY PLAN

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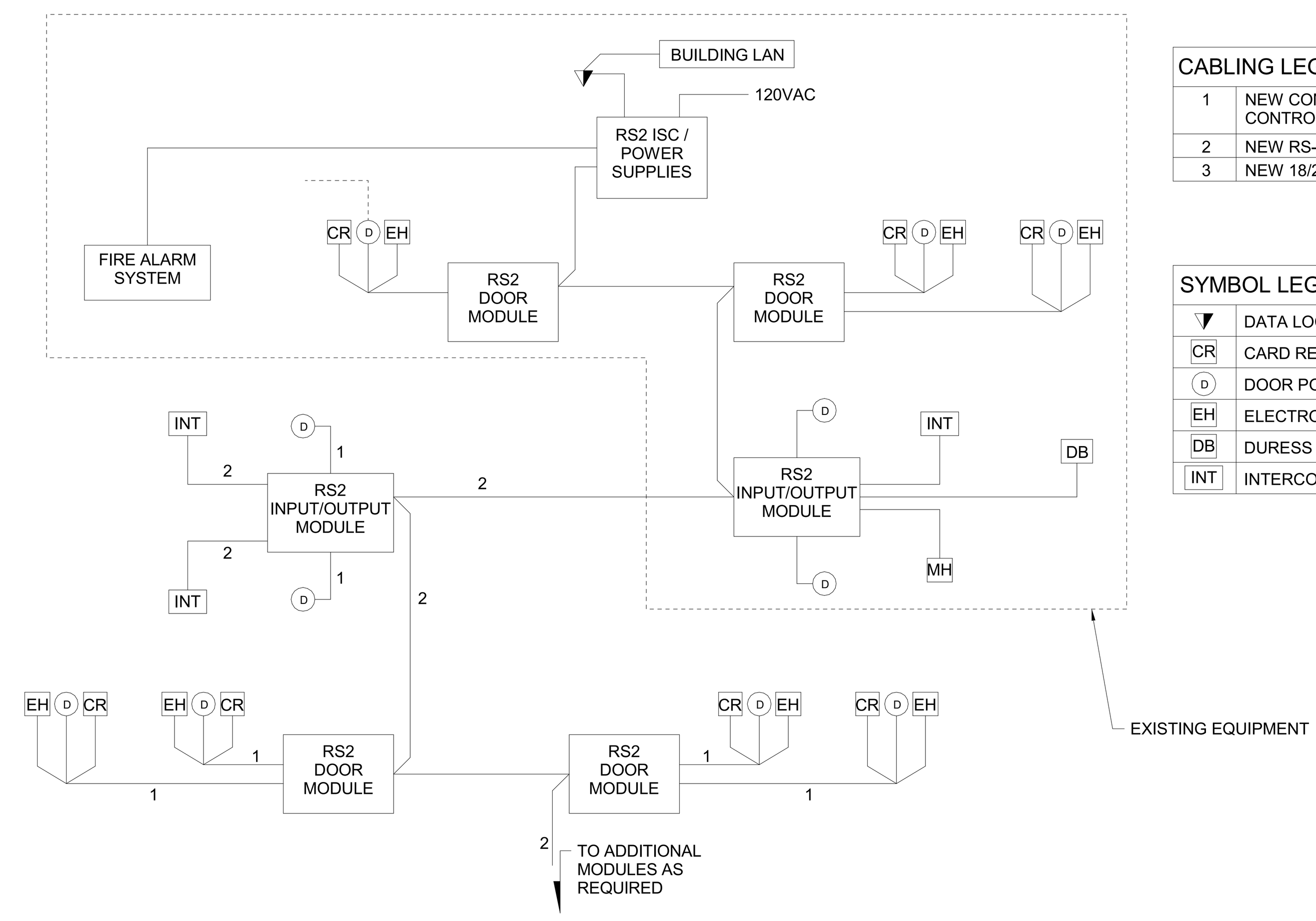
North Central High School Renovation - West Gym Addition

SECOND FLOOR TELECOM PLAN - UNIT W

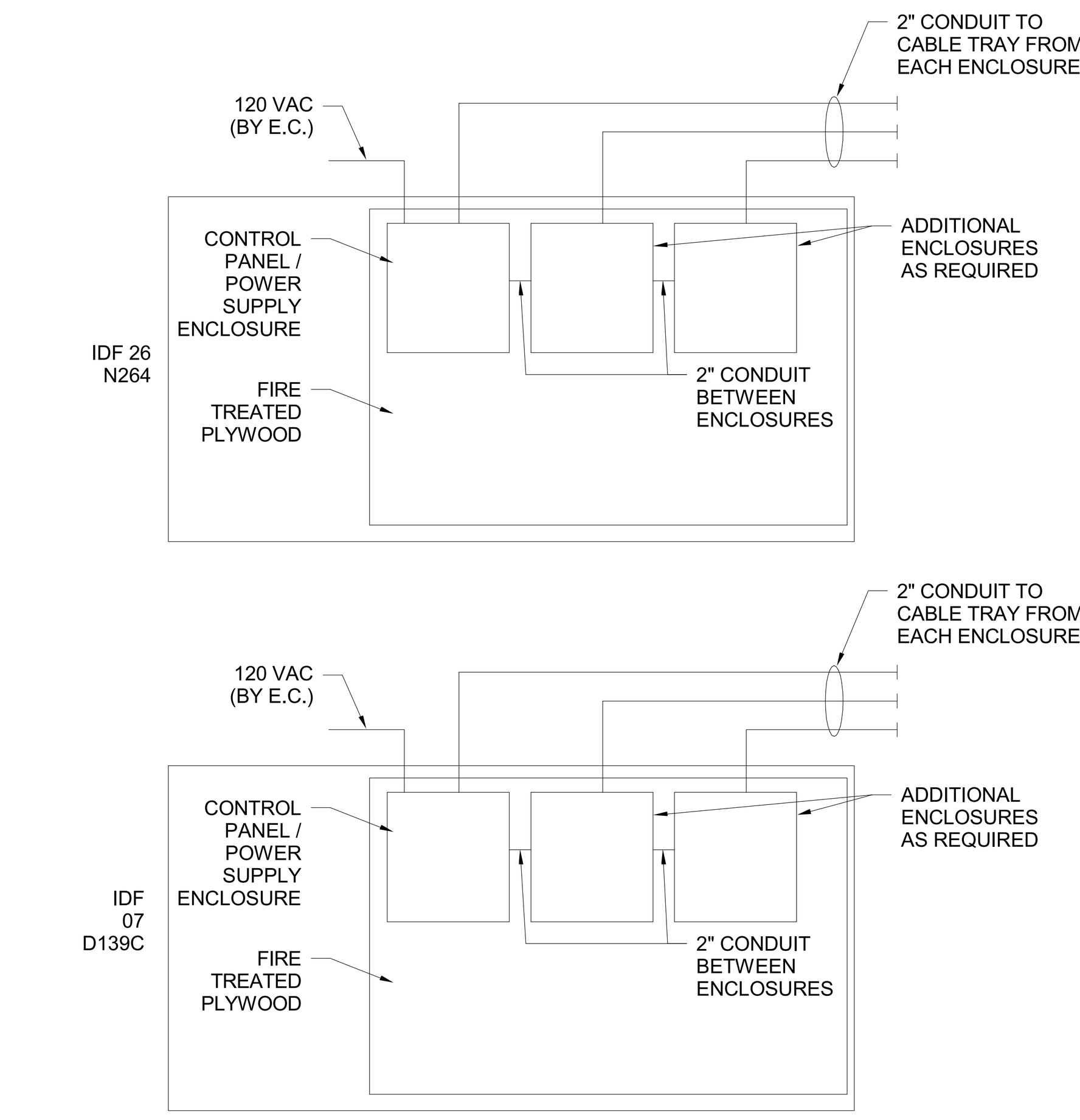
TF2W2.2



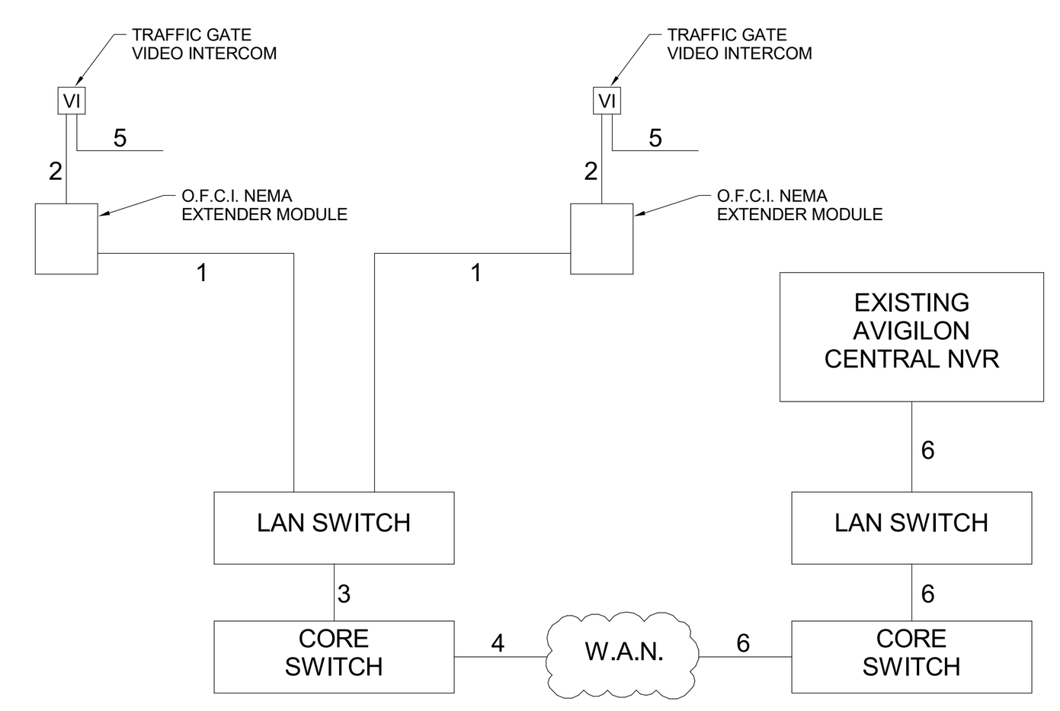
CABLING LEGEND (THIS DETAIL)	
1	NEW COMPOSITE ACCESS CONTROL CABLE
2	NEW RS-485 CABLE
3	NEW 18/2 PLENUM CABLE

SYMBOL LEGEND (THIS DETAIL)	
◥	DATA LOCATION
CR	CARD READER
D	DOOR POSITION SENSOR (DPDT)
EH	ELECTRONIC LOCKING HARDWARE
DB	DURESS BUTTON FOR LOCKDOWN
INT	INTERCOM DOOR STATION

1 ACCESS CONTROL FUNCTIONAL DIAGRAM
N.T.S.



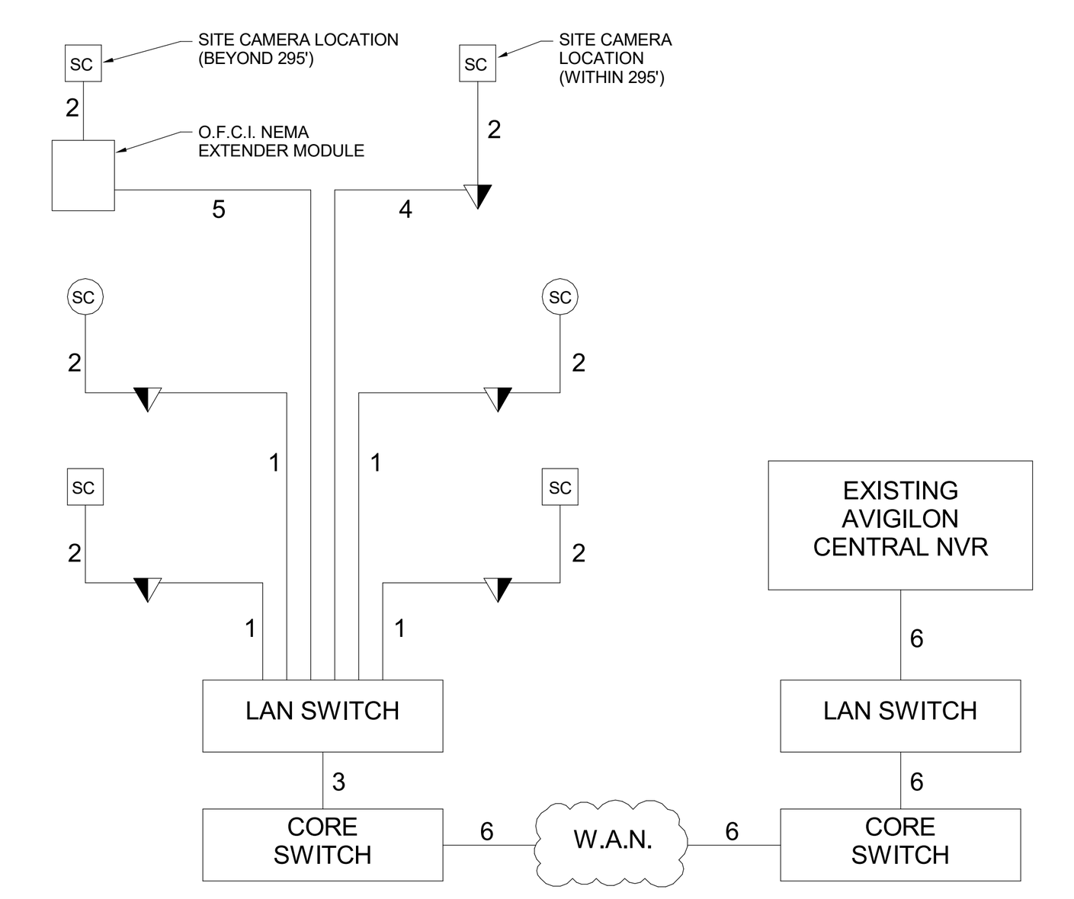
2 ACCESS CONTROL RISER DIAGRAM
N.T.S.



CABLING LEGEND (THIS DETAIL)	
1	NEW POWERED FIBER OPTICAL CABLE (BY DIVISION 27)
2	NEW ETHERNET PATCH CABLE (BY DIVISION 27)
3	NEW FIBER CABLING (BY DIVISION 27)
4	OUTSIDE PLANT CABLING (BY OTHERS)
5	NEW OUTDOOR RATED RS-485 CABLING TO RS2 SYSTEM CONTROLLER
6	EXISTING CABLING

SYMBOL LEGEND (THIS DETAIL)	
VI	VIDEO INTERCOM DOOR STATION

3 VIDEO INTERCOM SYSTEM FUNCTIONAL DIAGRAM
N.T.S.



CABLING LEGEND (THIS DETAIL)	
1	NEW PLENUM CAT 6A UTP CABLE (BY DIVISION 27)
2	NEW ETHERNET PATCH CABLE (BY DIVISION 27)
3	NEW FIBER CABLING (BY DIVISION 27)
4	NEW INDOOR/OUTDOOR CAT 6A CABLE (BY DIVISION 27)
5	NEW POWERED FIBER OPTICAL CABLE (BY DIVISION 27)
6	EXISTING CABLING

SYMBOL LEGEND (THIS DETAIL)	
◥	DATA JACK WITHIN BACK BOX
SC	WALL MOUNT CAMERA LOCATION
(SC)	CEILING MOUNT CAMERA LOCATION

4 VIDEO SECURITY FUNCTIONAL DIAGRAM
N.T.S.

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
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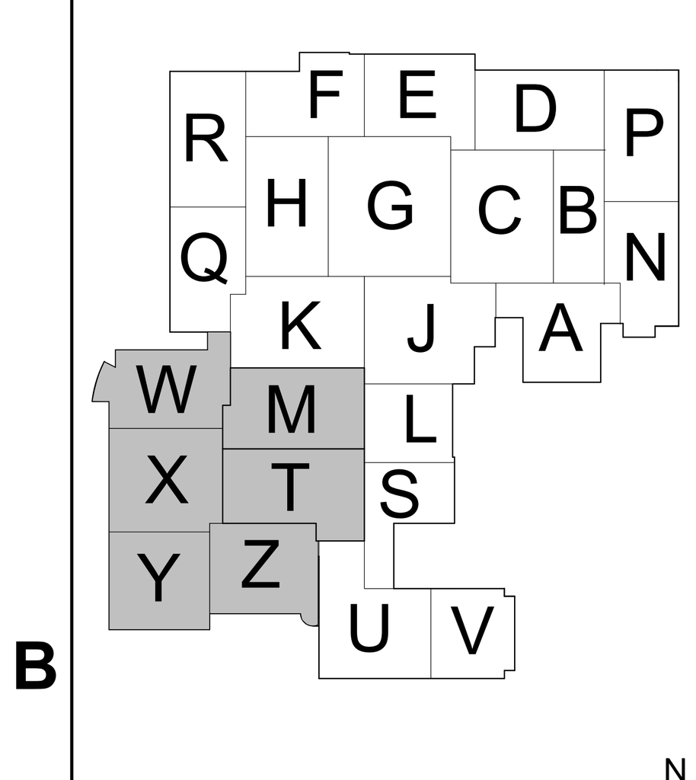
Project No. 2019-067.NCH
Project Date 12.06.2021
Bid Set 02
Produced MJC D27

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Matthew Connolly
BICSI ID # 212593
EXPIRES 12-31-21
RCDD

#	Revision	Date
A1.2	Addendum 1.2	01.13.2022

1801 East 86th Street
Indianapolis, IN 46240



KEY PLAN

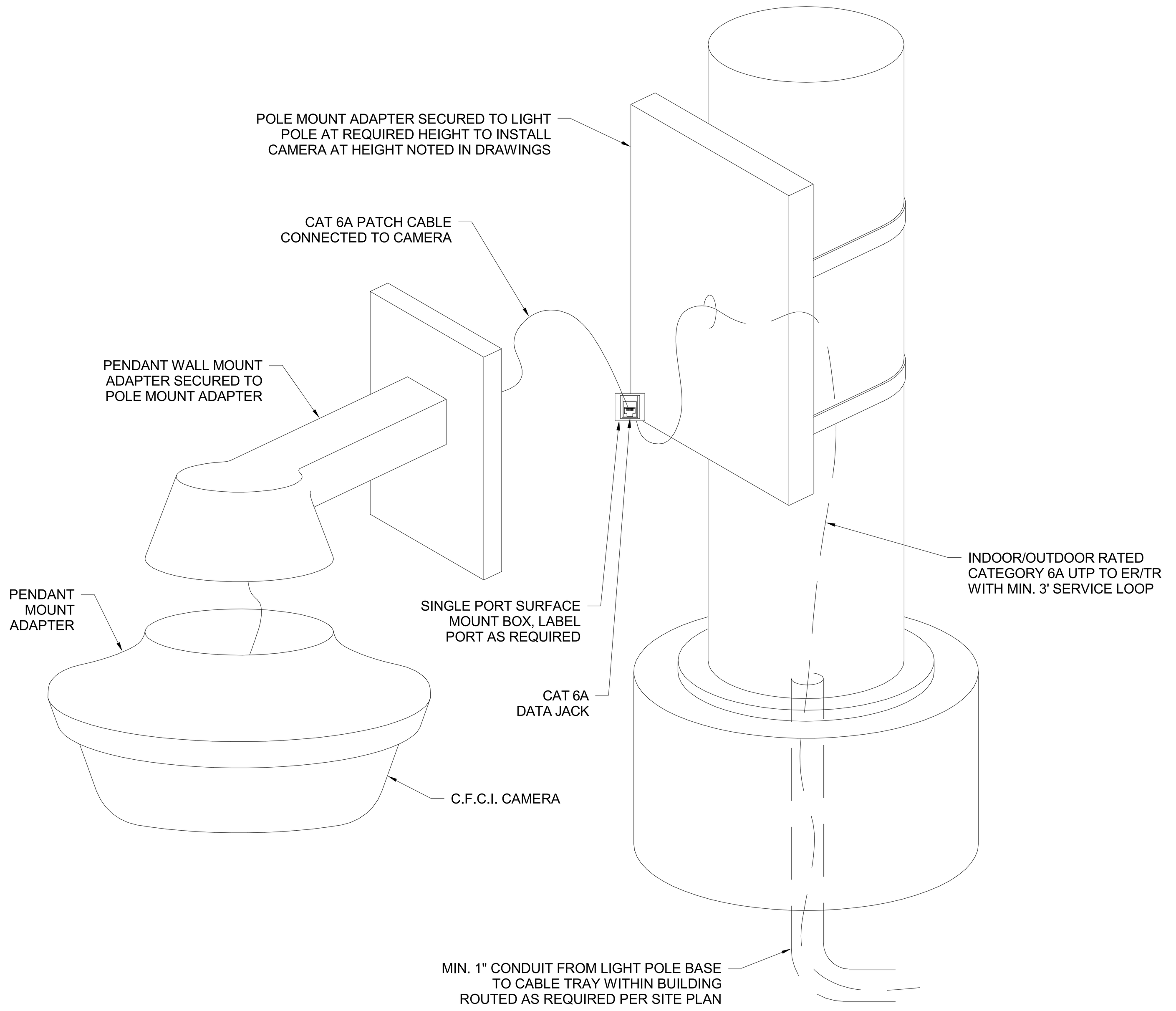
M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

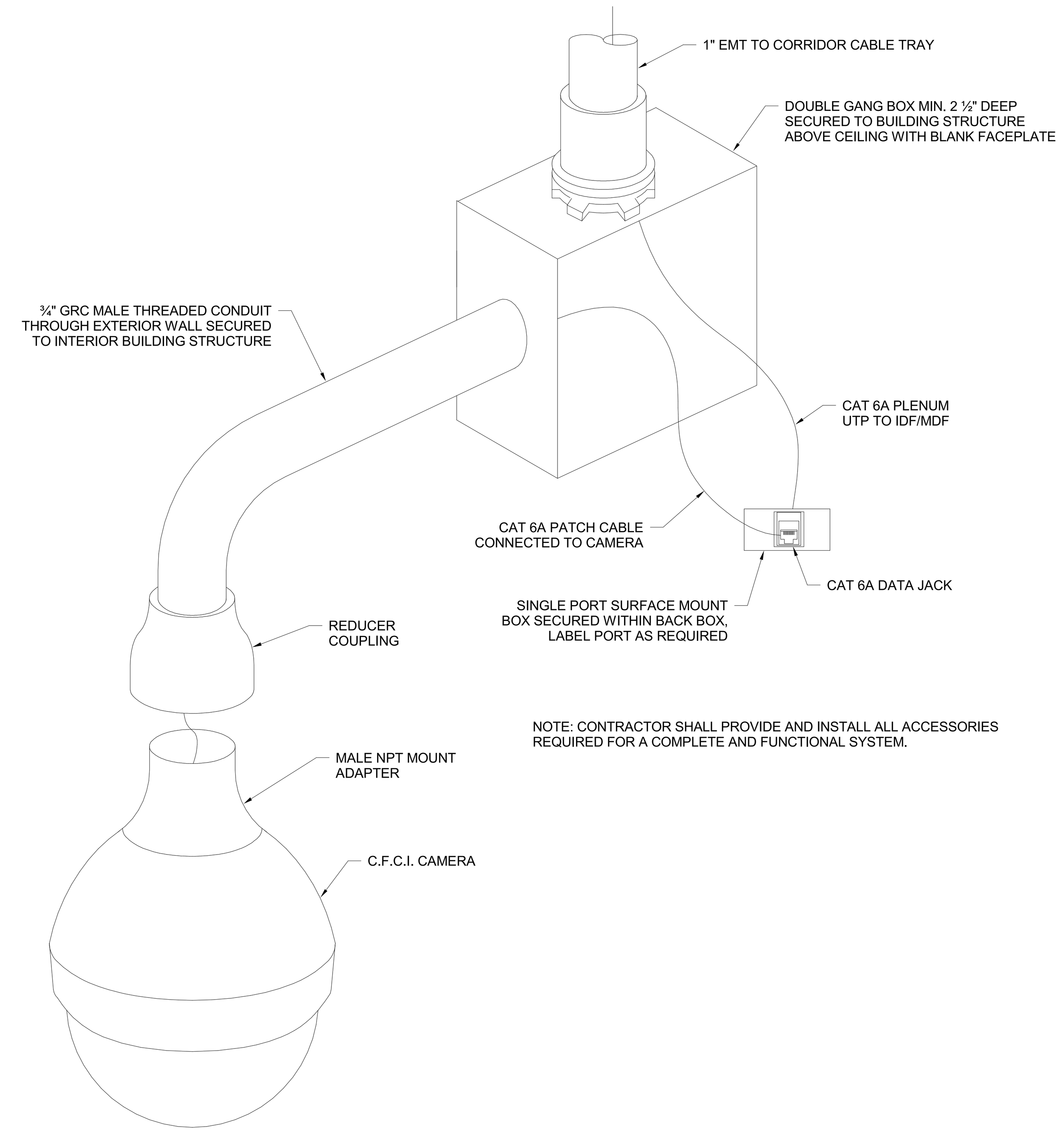
SECURITY DIAGRAMS.

T307.2

6 5 4 3 2 1

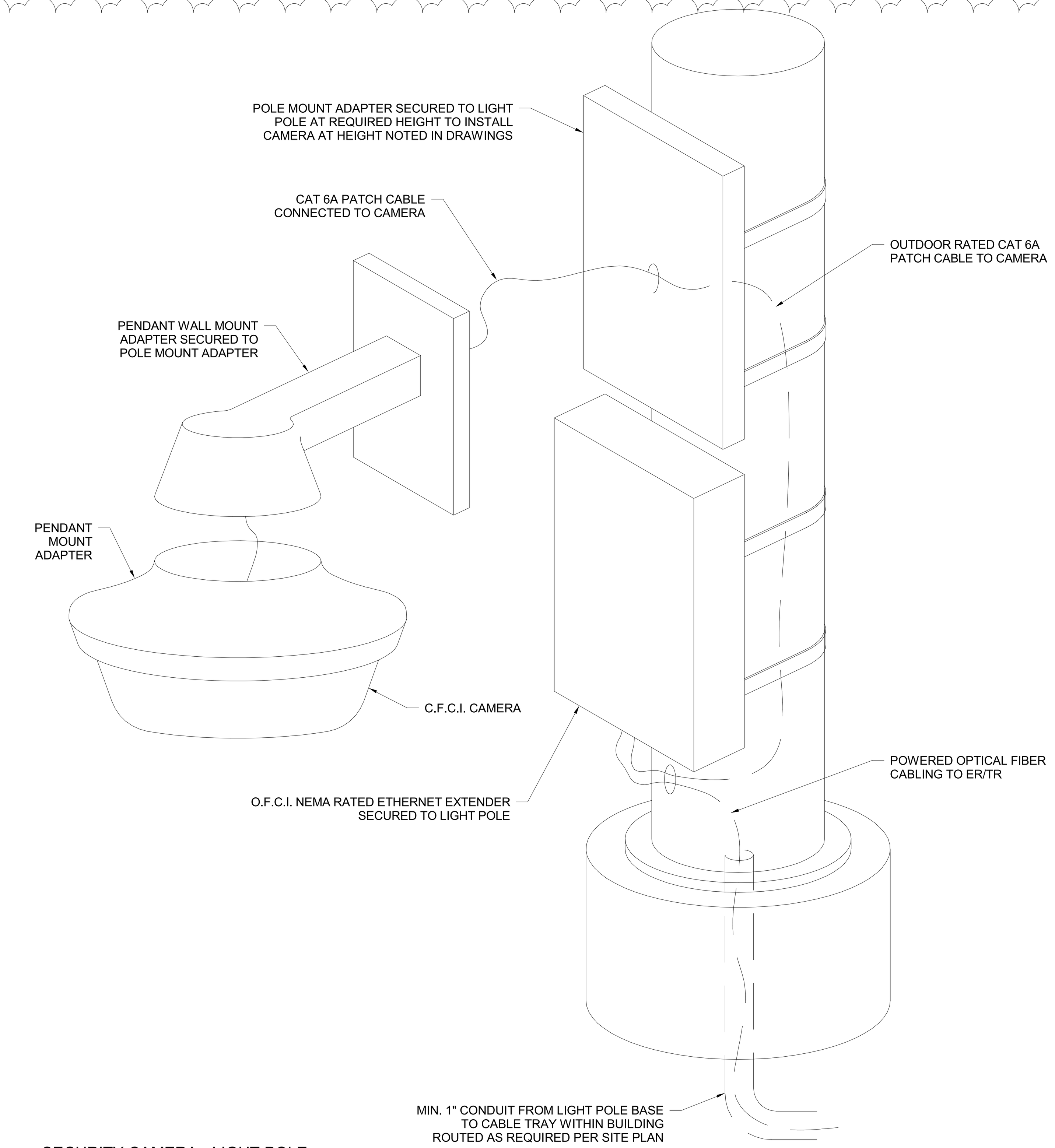


1 SECURITY CAMERA - LIGHT POLE MOUNT #1 (UNDER 295')
N.T.S.

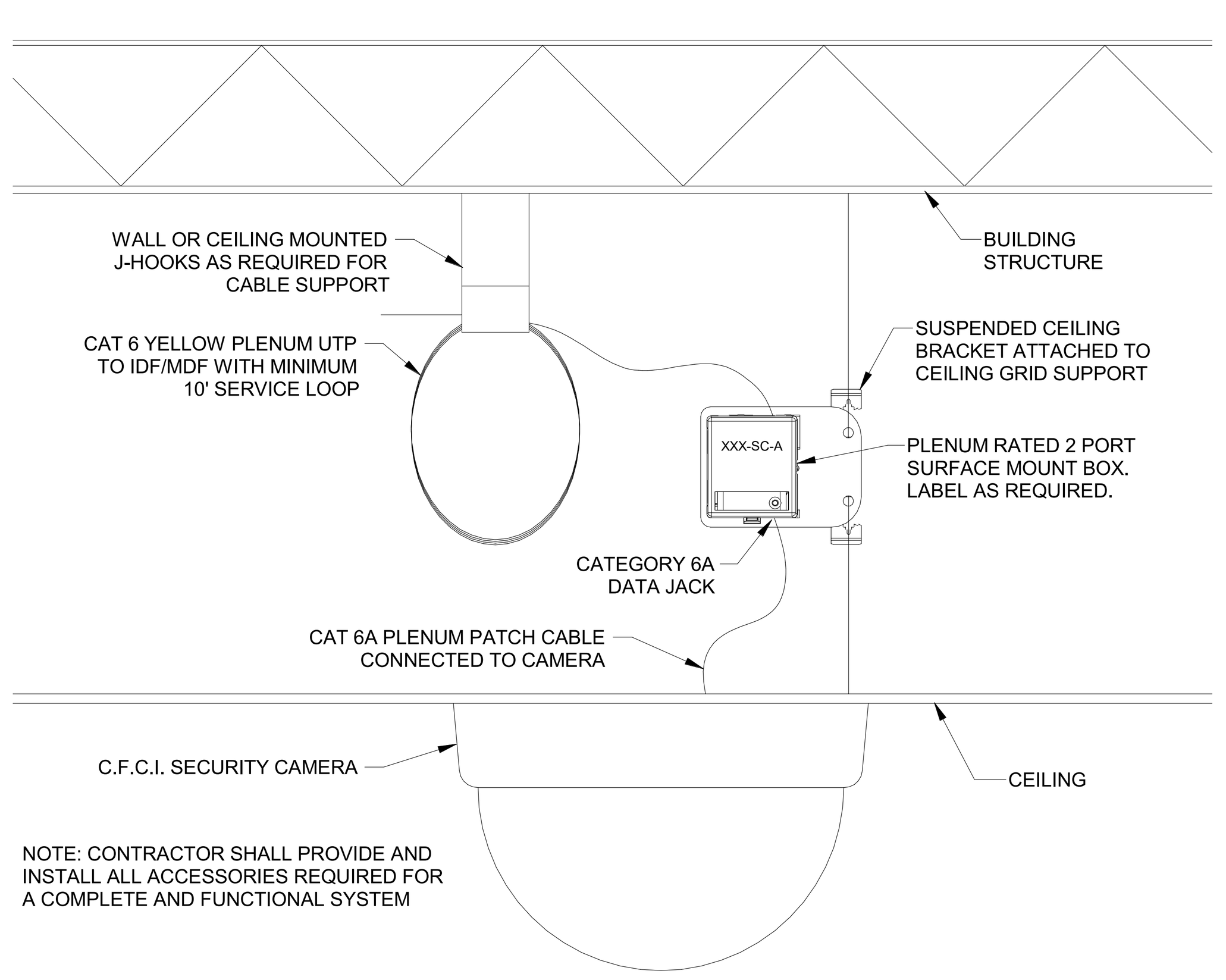


NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.

2 EXTERIOR WALL MOUNT SECURITY CAMERA
N.T.S.

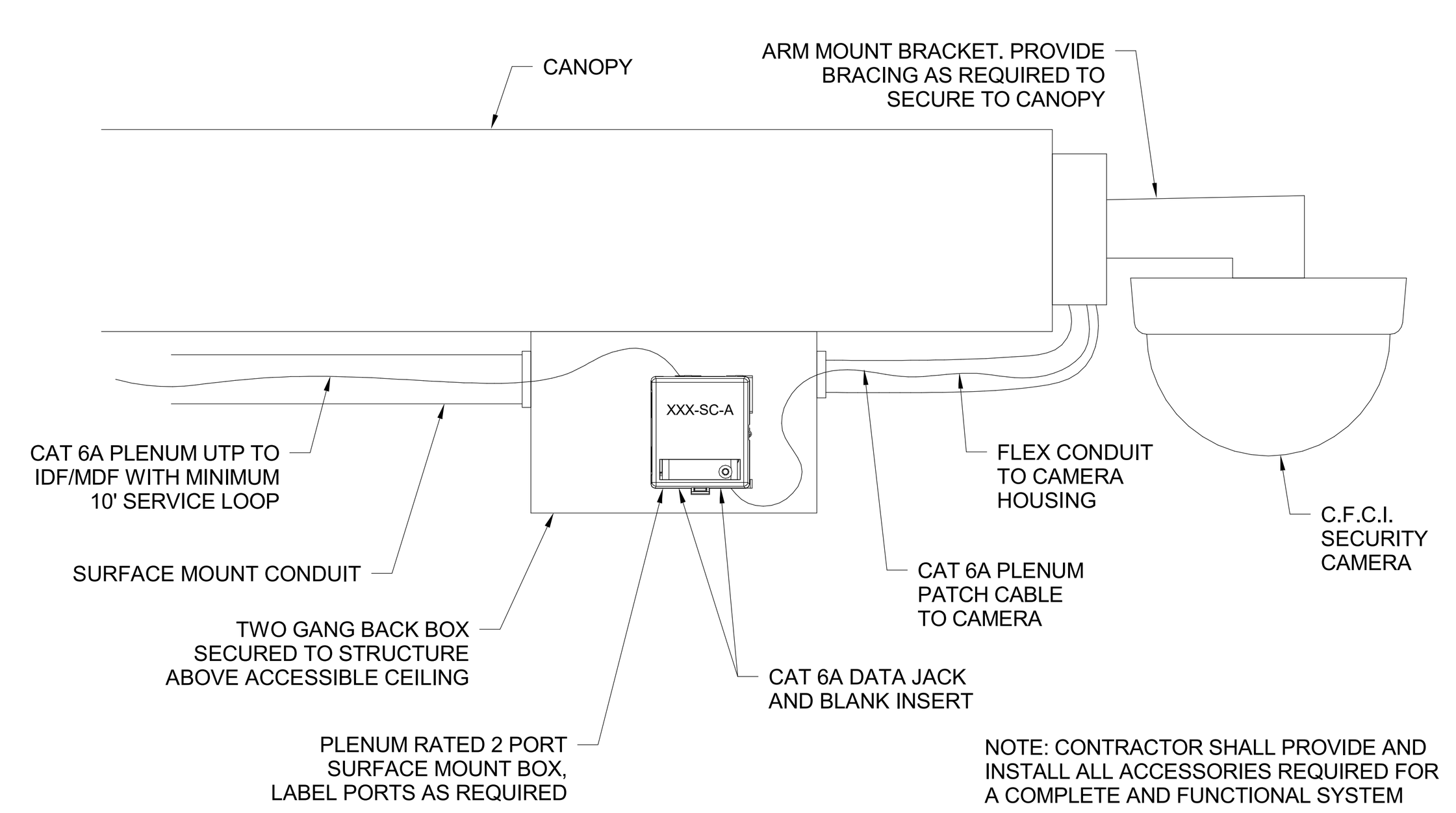


3 SECURITY CAMERA - LIGHT POLE MOUNT #2 (OVER 295')
N.T.S.



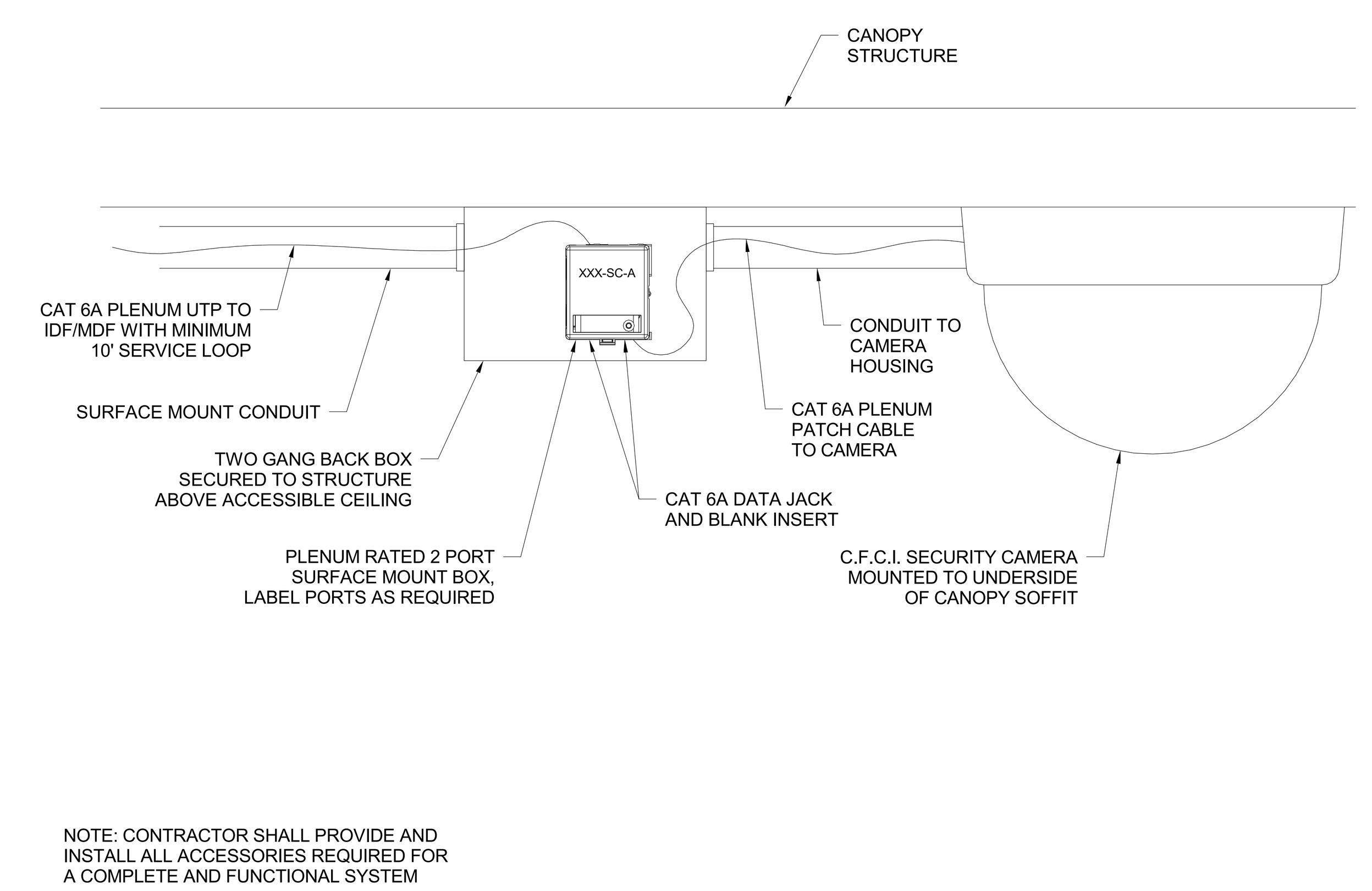
NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM

4 CEILING SECURITY CAMERA LOCATION
N.T.S.



NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM

5 SECURITY CAMERA - CANOPY END MOUNT LOCATION
N.T.S.



NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM

6 SECURITY CAMERA - CANOPY SOFFIT MOUNT LOCATION
N.T.S.

6 5 4 3 2 1

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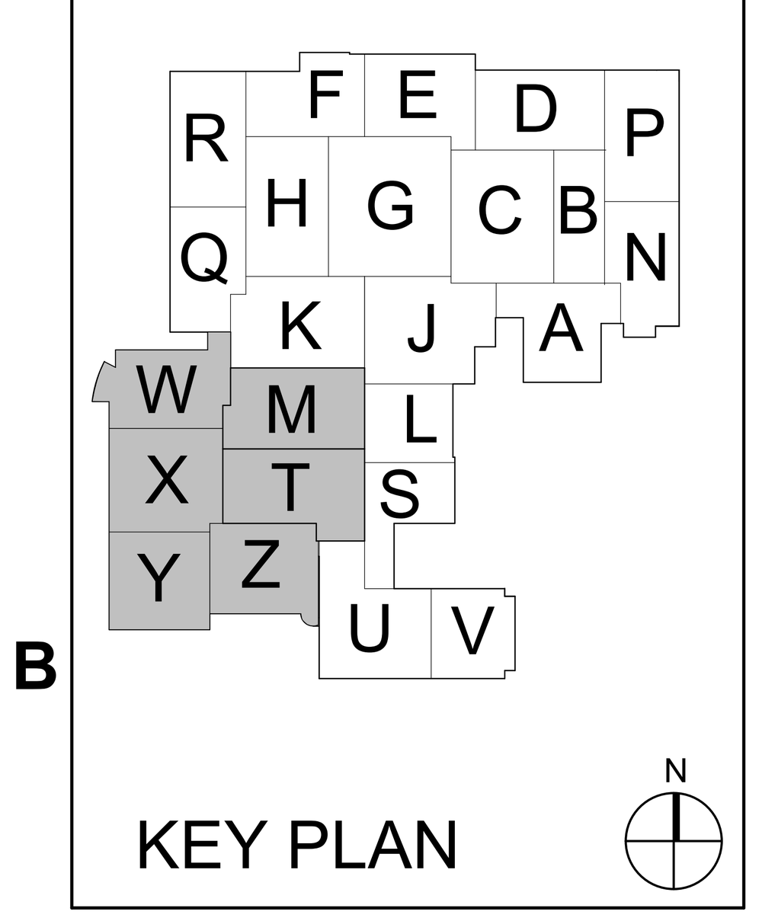


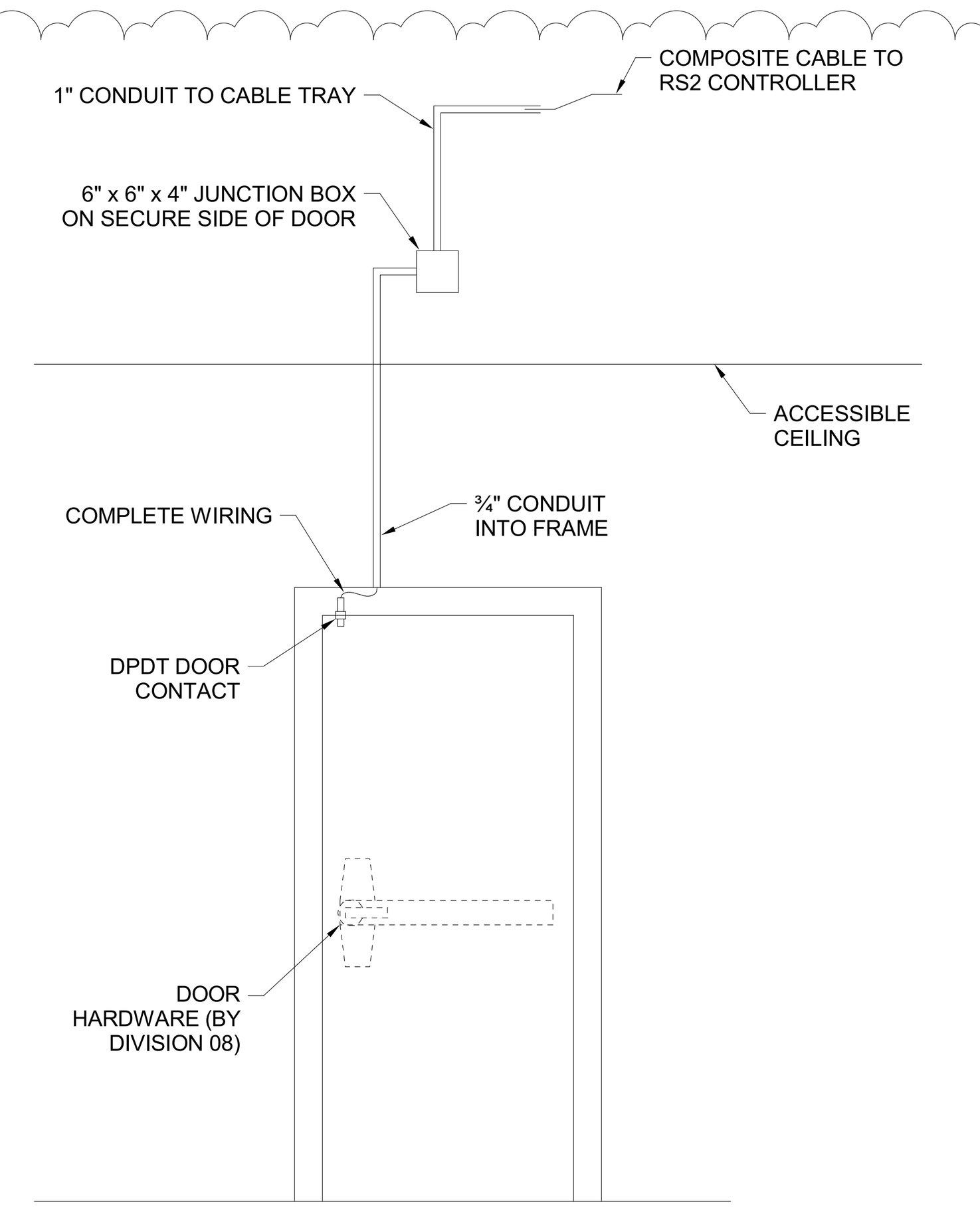
KEY PLAN

M.S.D. of Washington Township

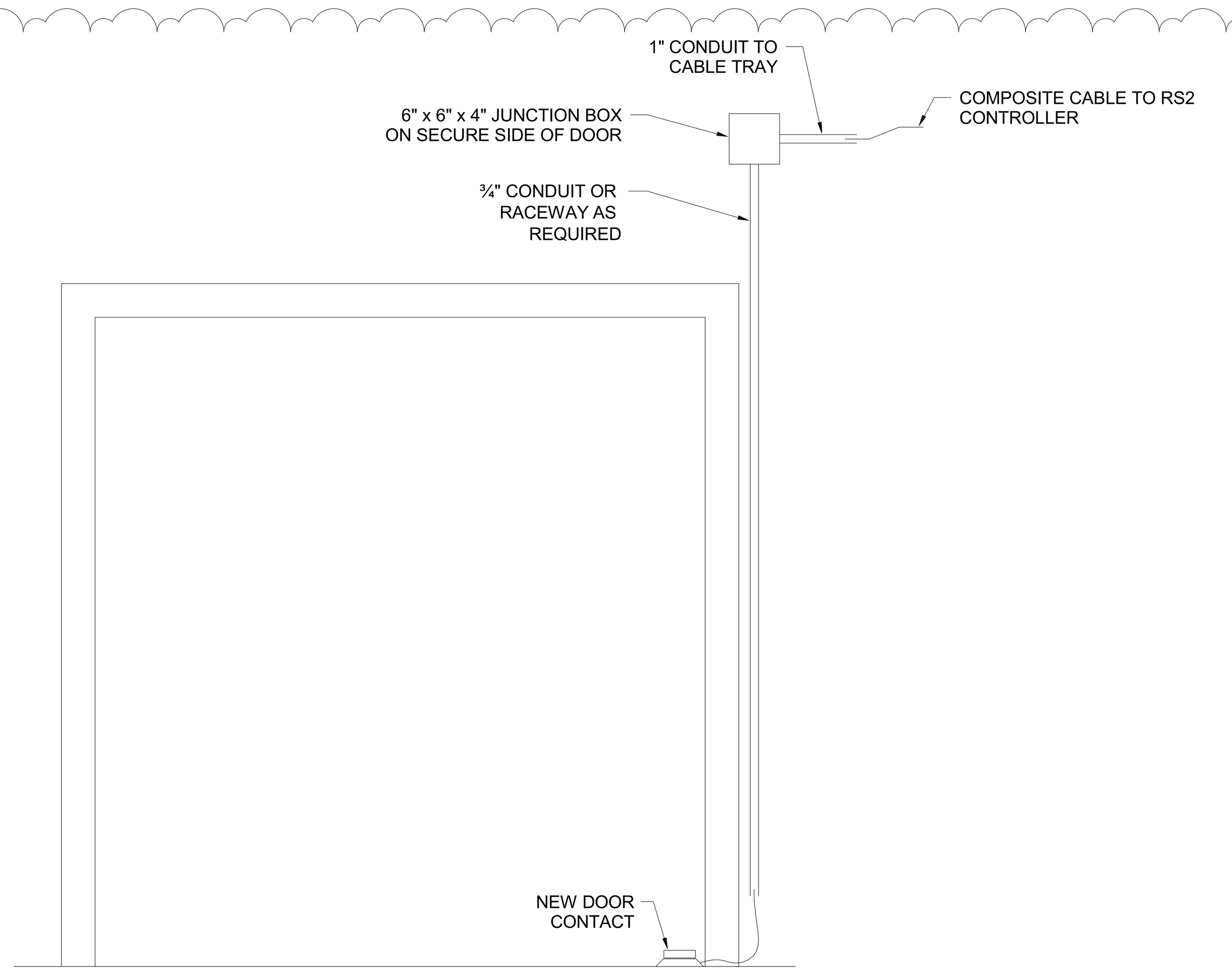
North Central High School Renovation - West Gym Addition

SECURITY DETAILS

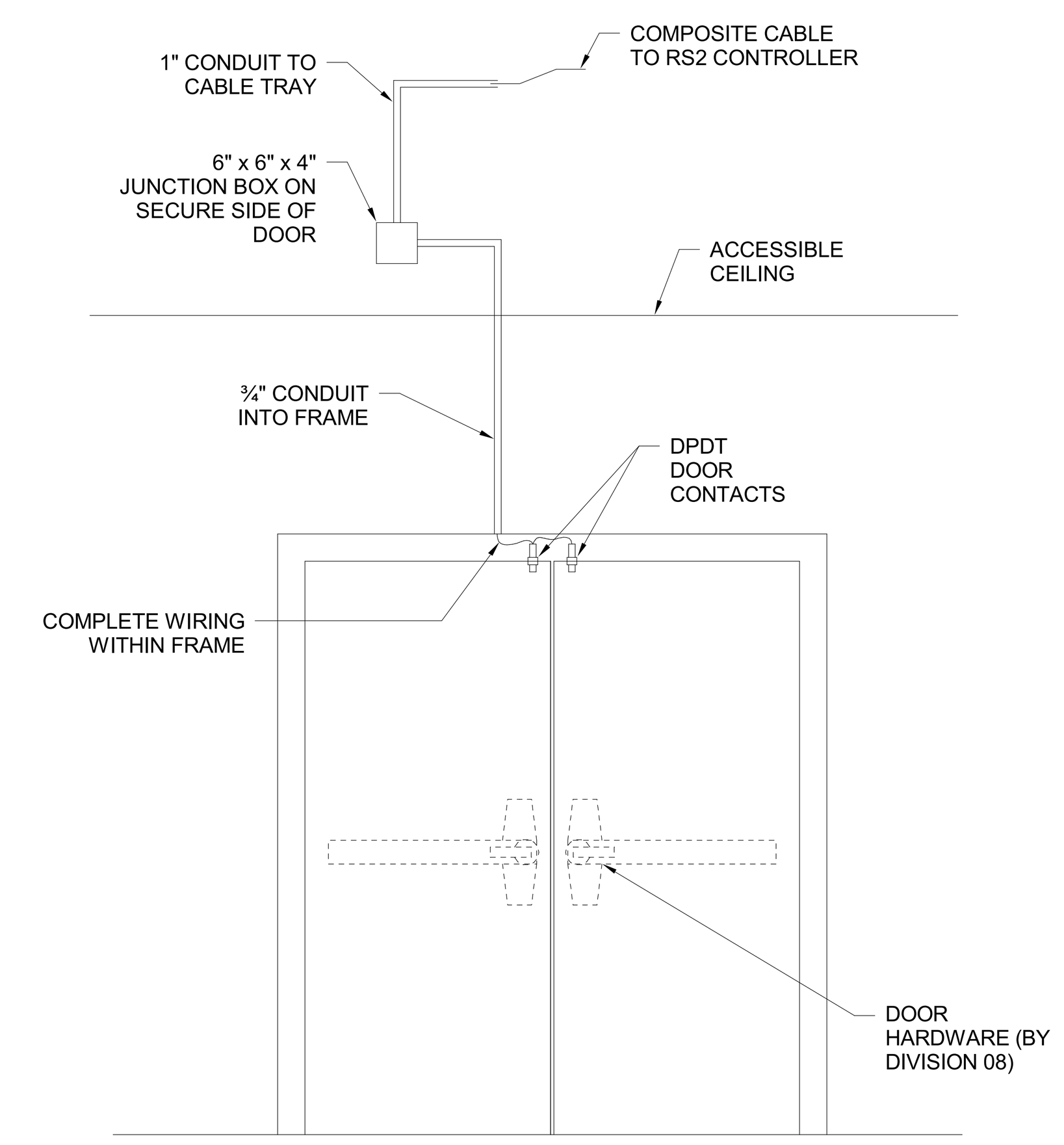
T405.2



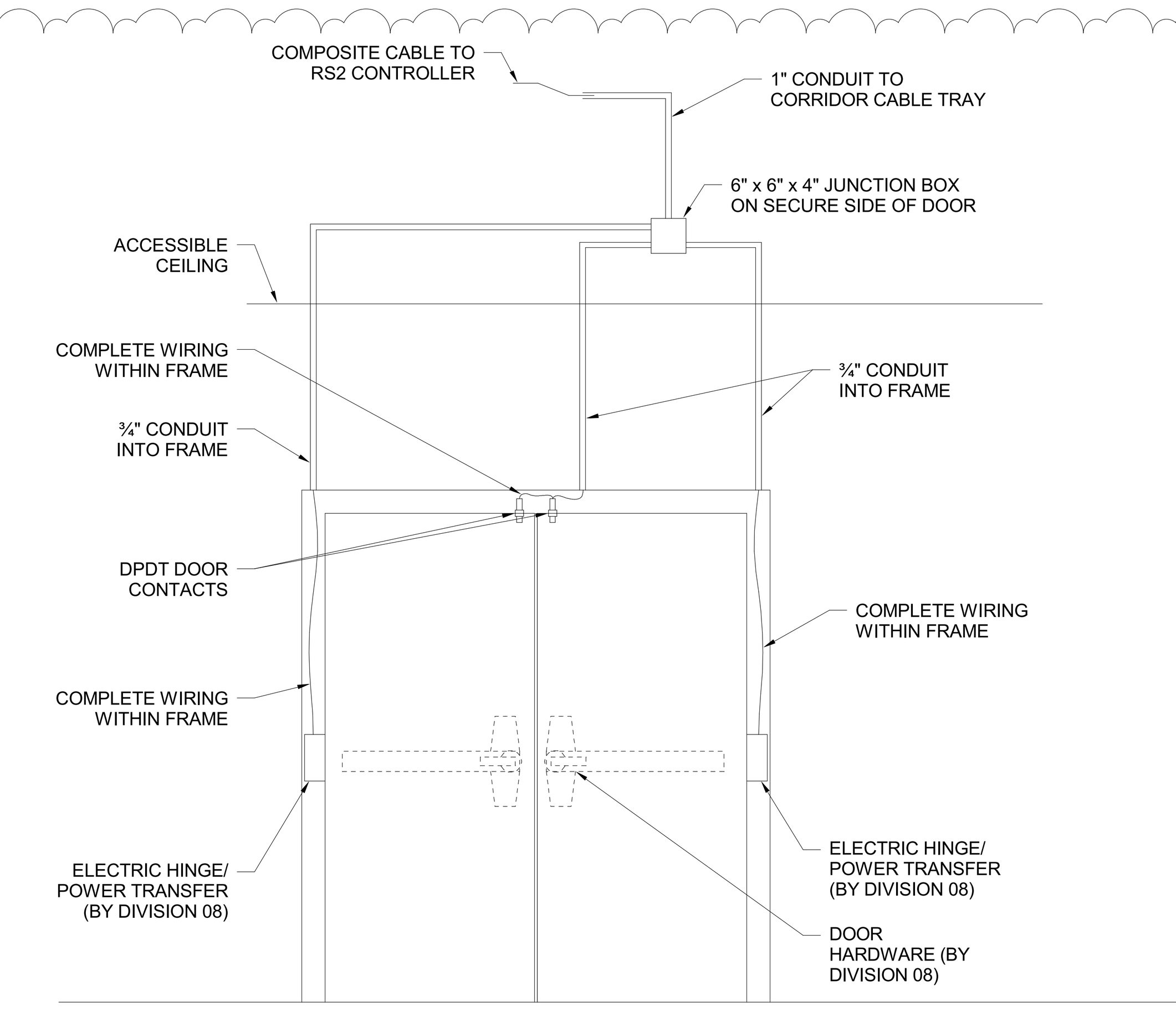
1 EAC DOOR TYPE S1.2 - MONITORING ONLY
N.T.S.



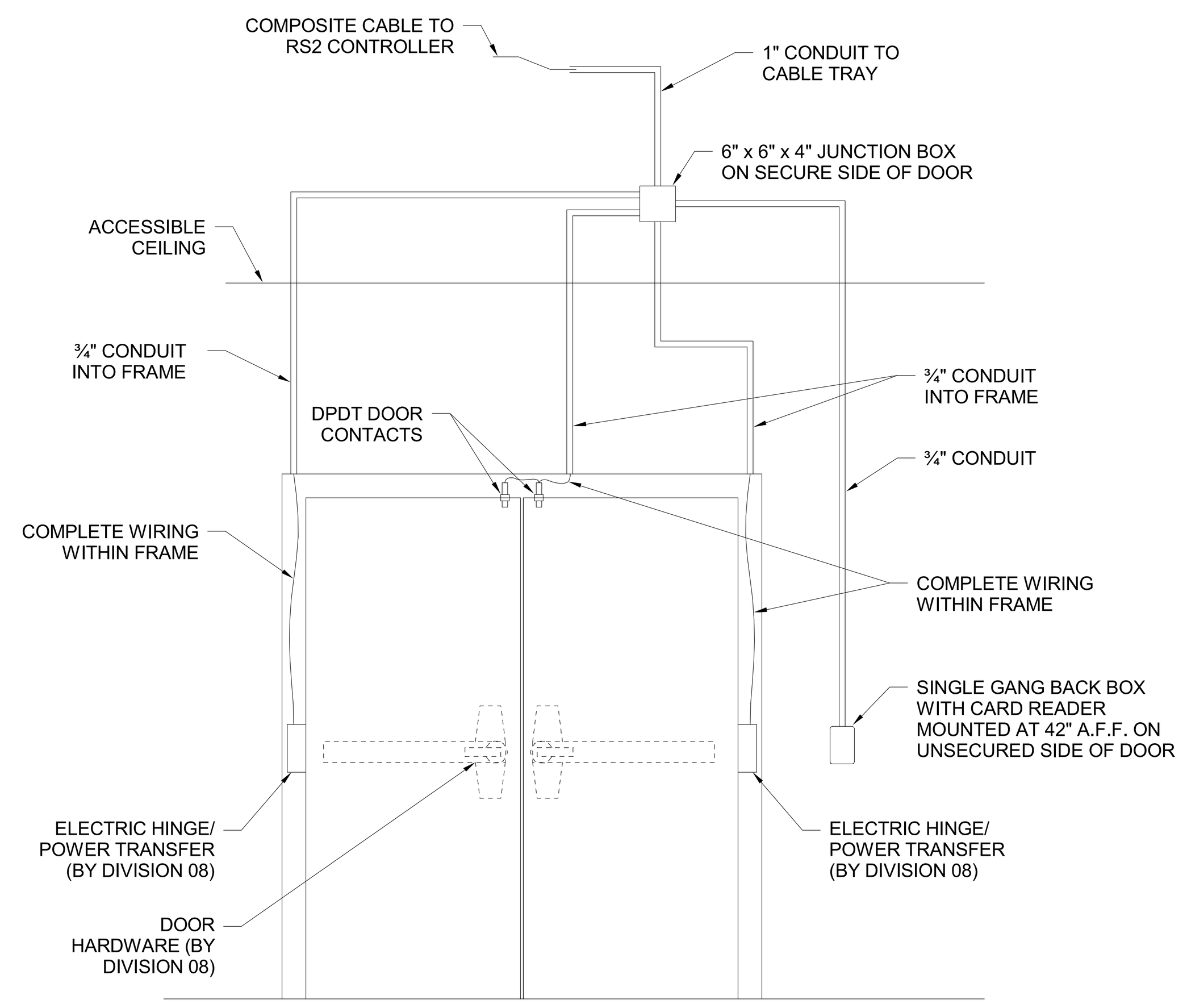
2 EAC DOOR TYPE S7.2 - OVERHEAD DOOR WITH MONITORING
N.T.S.



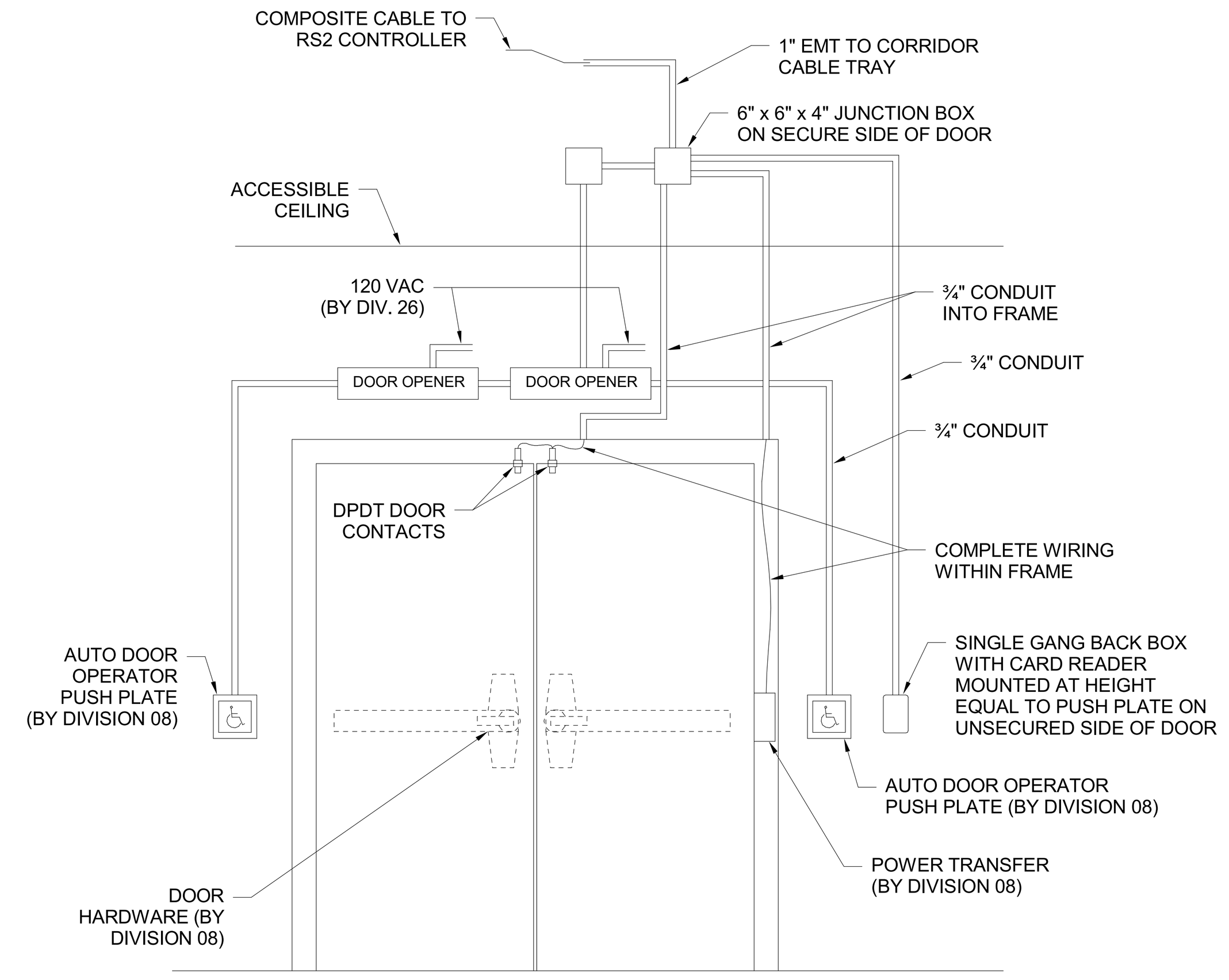
3 EAC DOOR TYPE D1.2 - MONITORING ONLY
N.T.S.



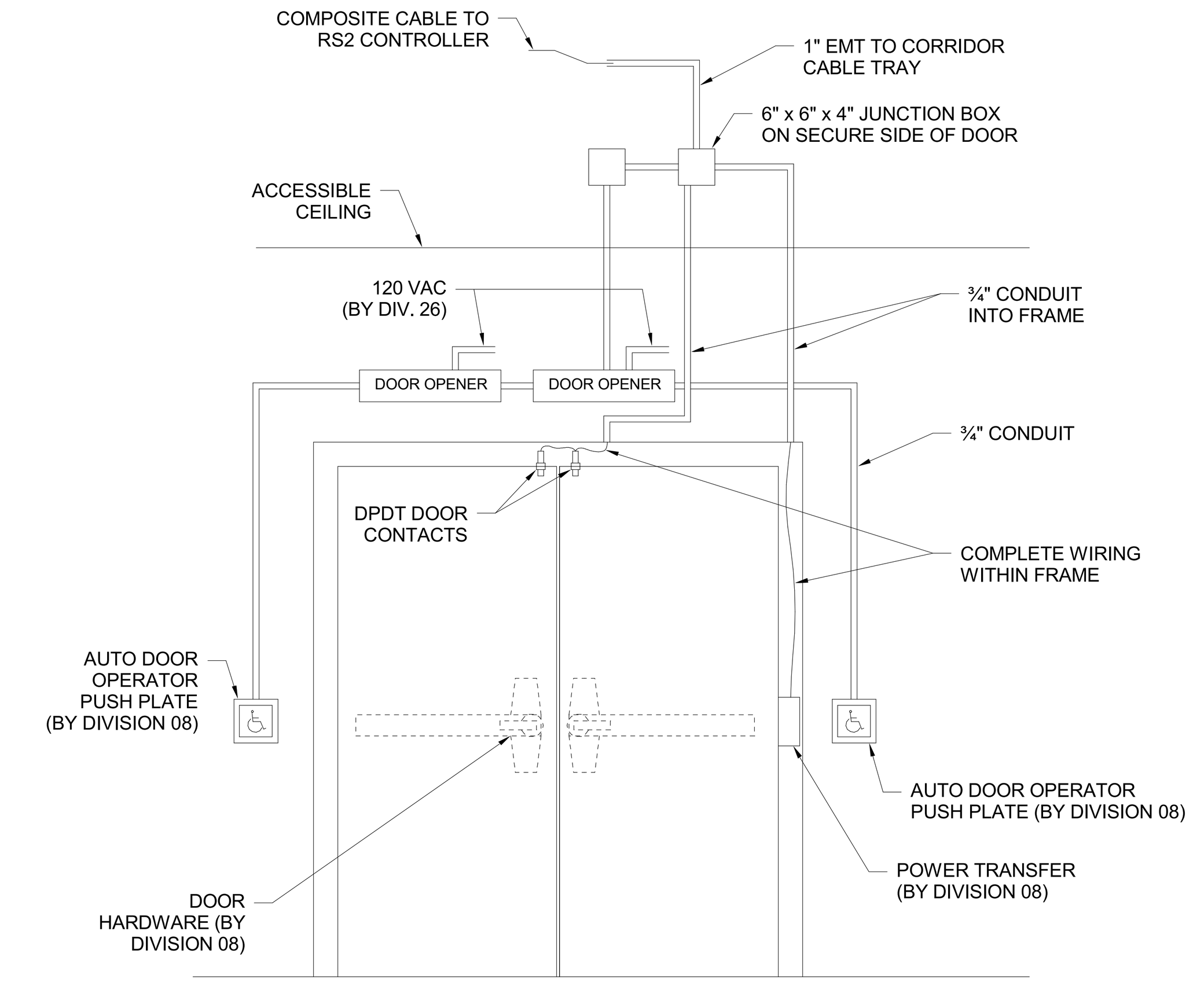
4 EAC DOOR TYPE D2.2 - MONITORING & CONTROL
N.T.S.



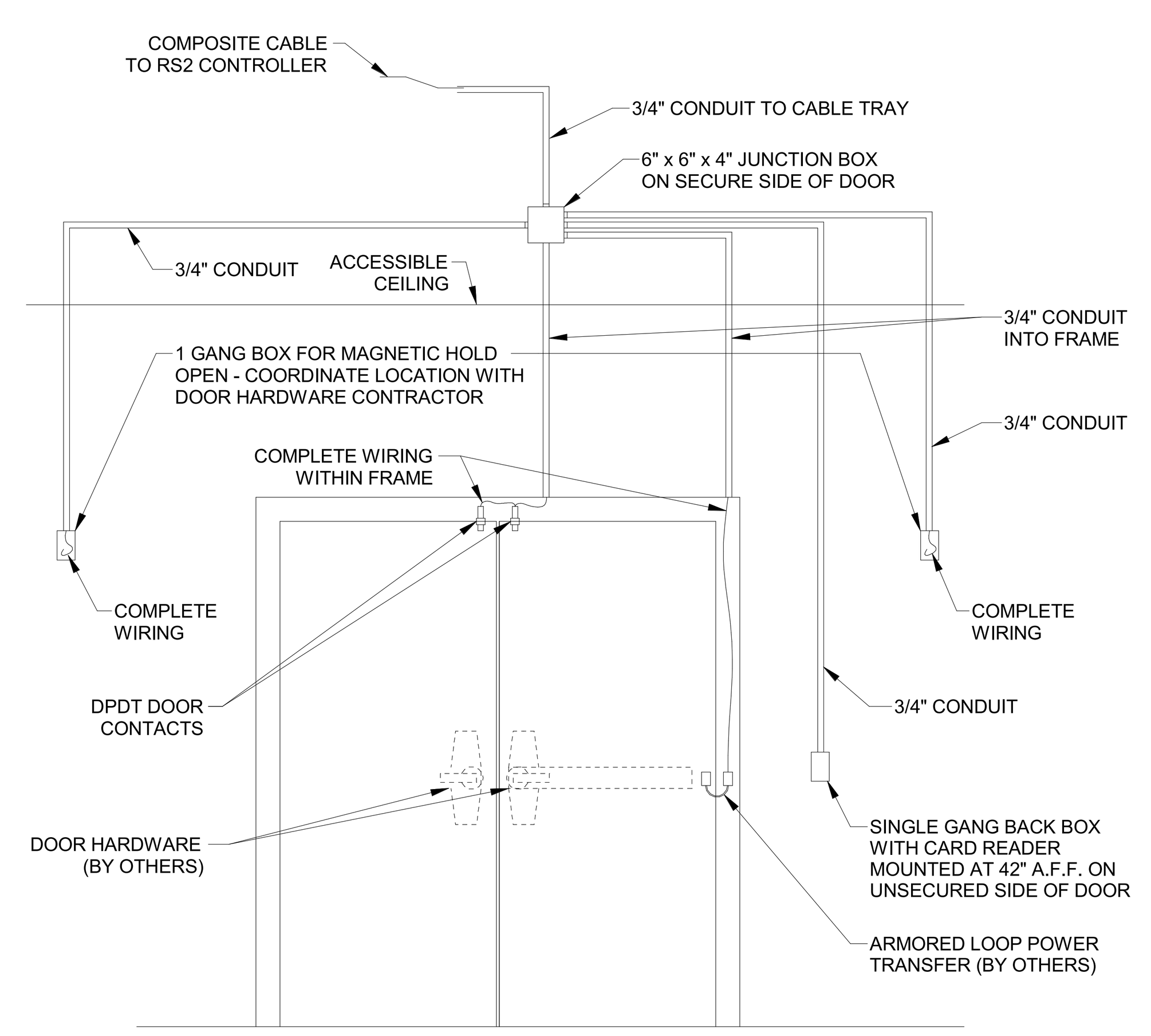
5 EAC DOOR TYPE D3.2 - CARD READER
N.T.S.



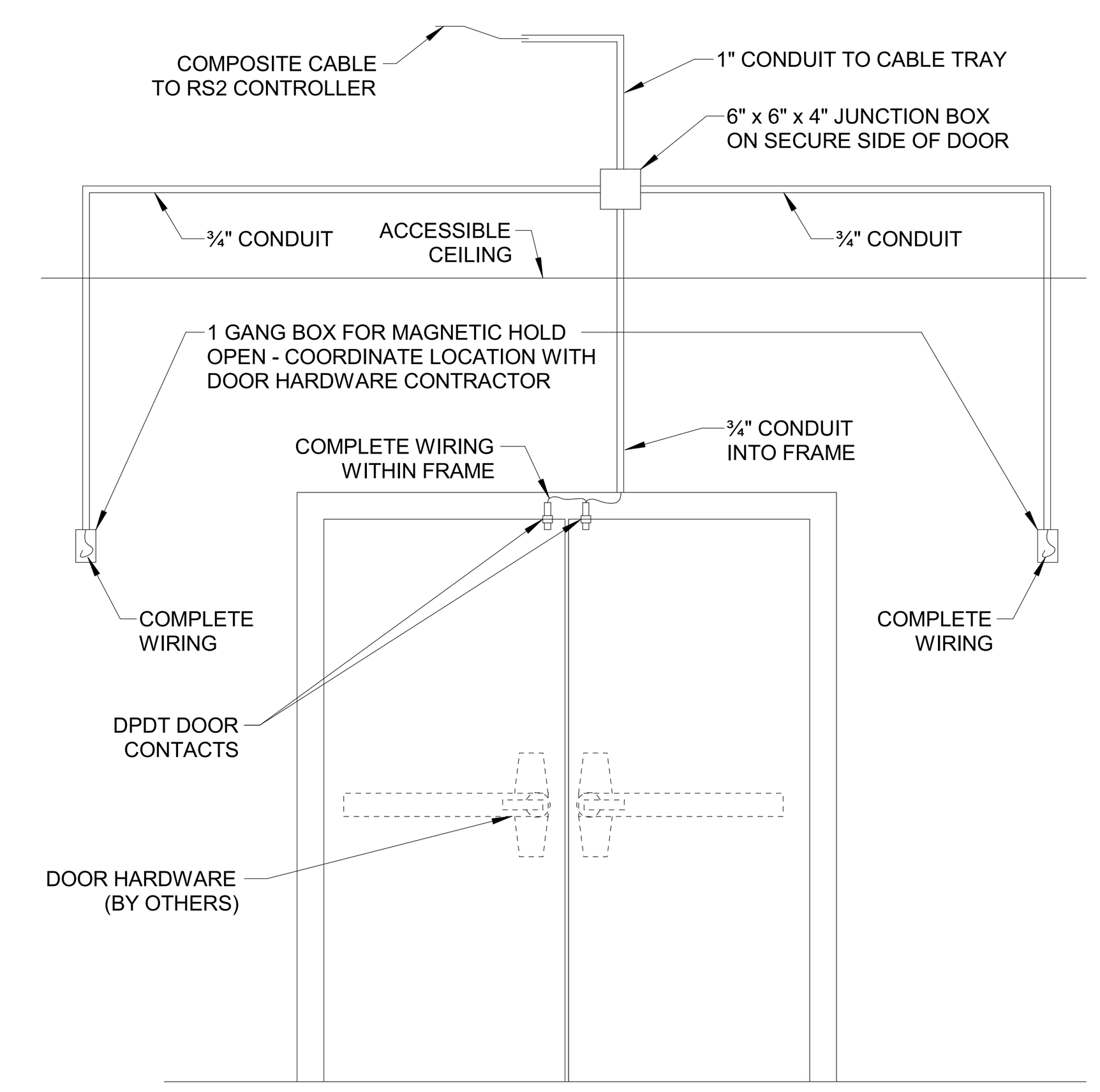
6 EAC DOOR TYPE D4.2 - CARD READER WITH ADA
N.T.S.



7 EAC DOOR TYPE D5.2 - MONITORING AND CONTROL WITH ADA
N.T.S.



8 EAC DOOR TYPE D6 - CARD READER WITH HOLD OPEN
N.T.S.



9 EAC DOOR TYPE D7 - MAGNETIC HOLD OPEN WITH LOCKDOWN AND MONITORING
N.T.S.

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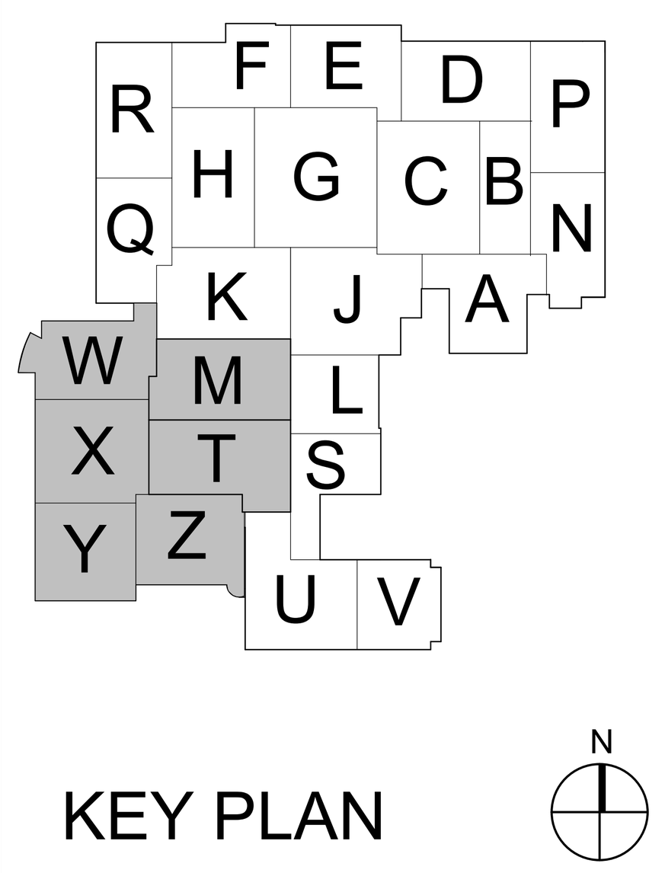

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

SECURITY DETAILS

T406.2

IDF D139C (IDF 07) TELECOM SCHEDULE (PHASE 2)

ROOM NUMBER	TELECOM ROOM	LABEL	TOTAL DATA	COMMENTS
E000	D139C	07-A-01	1	SECURITY CAMERA LOCATION - CEILING MOUNTED - RELOCATED EXISTING
E103	D139C	07-A-02	1	CLOCK LOCATION - FLUSH MOUNTED
E103	D139C	07-A-03/04	2	DATA VOICE LOCATION - FLUSH MOUNTED
E103	D139C	07-A-05/06	2	DATA VOICE LOCATION - FLUSH MOUNTED
E103	D139C	07-A-07/08	2	DATA VOICE LOCATION - FLUSH MOUNTED
E103	D139C	07-A-09/10	2	DATA VOICE LOCATION - FLUSH MOUNTED
E103	D139C	07-A-11/12	2	DATA VOICE LOCATION - FLUSH MOUNTED
E103	D139C	07-A-13/14	2	DATA VOICE LOCATION - FLUSH MOUNTED
E103	D139C	07-A-15	1	WALL PHONE LOCATION - FLUSH MOUNTED
E103	D139C	07-A-16	1	WIRELESS ACCESS POINT - CEILING MOUNTED
E103	D139C	07-A-17	1	PROJECTOR LOCATION - CEILING MOUNTED
E103	D139C	07-A-18	1	ROOM SCHEDULER LOCATION - FLUSH MOUNTED
E104	D139C	07-A-19	1	CLOCK LOCATION - FLUSH MOUNTED
E104	D139C	07-A-20/21	2	DATA VOICE LOCATION - FLUSH MOUNTED
E104	D139C	07-A-22/23	2	DATA VOICE LOCATION - FLUSH MOUNTED
E104	D139C	07-A-24/25	2	DATA VOICE LOCATION - FLUSH MOUNTED
E104	D139C	07-A-25	1	WALL PHONE LOCATION - FLUSH MOUNTED
E104	D139C	07-A-26	1	WIRELESS ACCESS POINT - CEILING MOUNTED
E104	D139C	07-A-27	2	PROJECTOR LOCATION - CEILING MOUNTED
E104	D139C	07-A-28	2	ROOM SCHEDULER LOCATION - FLUSH MOUNTED
E105	D139C	07-A-29	1	CLOCK LOCATION - FLUSH MOUNTED
E103	D139C	07-A-30/31	2	DATA VOICE LOCATION - FLUSH MOUNTED
E105	D139C	07-A-32/33	2	DATA VOICE LOCATION - FLUSH MOUNTED
E105	D139C	07-A-34/35	2	DATA VOICE LOCATION - FLUSH MOUNTED
E105	D139C	07-A-36	1	WALL PHONE LOCATION - FLUSH MOUNTED
E105	D139C	07-A-37	1	WIRELESS ACCESS POINT - CEILING MOUNTED
E105	D139C	07-A-38	2	PROJECTOR LOCATION - CEILING MOUNTED
E105	D139C	07-A-39	2	ROOM SCHEDULER LOCATION - FLUSH MOUNTED
E106	D139C	07-A-40	1	CLOCK LOCATION - FLUSH MOUNTED
E106	D139C	07-A-41/42	2	DATA VOICE LOCATION - FLUSH MOUNTED
E106	D139C	07-A-43/44	2	DATA VOICE LOCATION - FLUSH MOUNTED
E106	D139C	07-A-45	1	WALL PHONE LOCATION - FLUSH MOUNTED
E106	D139C	07-A-46/47	2	DATA VOICE LOCATION - FLUSH MOUNTED
E106	D139C	07-A-48/26-B-01	2	DATA VOICE LOCATION - FLUSH MOUNTED
E106	D139C	07-B-02	1	WIRELESS ACCESS POINT - CEILING MOUNTED
E106	D139C	07-B-03	2	PROJECTOR LOCATION - CEILING MOUNTED
E106	D139C	07-B-04	2	ROOM SCHEDULER LOCATION - FLUSH MOUNTED
E106A	D139C	07-B-05/06	2	DATA VOICE LOCATION - FLUSH MOUNTED
E107	D139C	07-B-07	1	CLOCK LOCATION - FLUSH MOUNTED
E107	D139C	07-B-08/09	2	DATA VOICE LOCATION - FLUSH MOUNTED
E107	D139C	07-B-10	1	WIRELESS ACCESS POINT - CEILING MOUNTED
E002	D139C	07-B-11	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
E201	D139C	07-B-12	1	CLOCK LOCATION - FLUSH MOUNTED
E201	D139C	07-B-13/14	2	DATA VOICE LOCATION - FLUSH MOUNTED
E201	D139C	07-B-15/16	2	DATA VOICE LOCATION - FLUSH MOUNTED
E201	D139C	07-B-17/18	2	MONITOR LOCATION - FLUSH MOUNTED
E201	D139C	07-B-19/20	2	DATA VOICE LOCATION - FLUSH MOUNTED
E201	D139C	07-B-21/22	2	DATA VOICE LOCATION - FLUSH MOUNTED
E201	D139C	07-B-23/24	2	DATA VOICE LOCATION - FLUSH MOUNTED
E201	D139C	07-B-25/26	2	DATA VOICE LOCATION - FLUSH MOUNTED
E201	D139C	07-B-27	1	WIRELESS ACCESS POINT - CEILING MOUNTED
M001	D139C	07-B-28	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
N266	D139C	07-B-29	1	CLOCK LOCATION - SURFACE MOUNTED
N266	D139C	07-B-30	1	CLOCK LOCATION - SURFACE MOUNTED
N266	D139C	07-B-31	1	WIRELESS ACCESS POINT - CEILING MOUNTED
N267	D139C	07-B-32	1	CLOCK LOCATION - SURFACE MOUNTED
N267	D139C	07-B-33/34	2	DATA VOICE LOCATION - FLUSH MOUNTED
N268	D139C	07-B-35	1	CLOCK LOCATION - SURFACE MOUNTED
E001	D139C	07-B-36	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
Grand total			91	

IDF N264 (IDF 26) TELECOM SCHEDULE (PHASE 2)

ROOM NUMBER	TELECOM ROOM	LABEL	TOTAL DATA	COMMENTS
E000	N264	26-A-01	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
E000	N264	26-A-02	1	SECURITY CAMERA LOCATION - WALL MOUNTED AT 12' A.F.F.
E000	N264	26-A-03	1	DUAL SIDED CLOCK LOCATION
E100	N264	26-A-05	1	CLOCK LOCATION - FLUSH MOUNTED
E100	N264	26-A-06/07	2	AV FLOORBOX LOCATION
E100	N264	26-A-08/09	2	AV FLOORBOX LOCATION
E100	N264	26-A-10/11	2	AV FLOORBOX LOCATION
E100	N264	26-A-12/13	2	AV FLOORBOX LOCATION
E100	N264	26-A-14	1	CLOCK LOCATION - FLUSH MOUNTED
E100	N264	26-A-15	1	WIRELESS ACCESS POINT - CEILING MOUNTED
E100	N264	26-A-16	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
E100	N264	26-A-17	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
E100	N264	26-A-18	1	WIRELESS ACCESS POINT - CEILING MOUNTED
E100	N264	26-A-19	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
E100	N264	26-A-20	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
E100	N264	26-A-21	1	WIRELESS ACCESS POINT - CEILING MOUNTED
E101	N264	26-A-22	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
N001	N264	26-A-23	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
N001	N264	26-A-24	1	DUAL SIDED CLOCK LOCATION
N001	N264	26-A-25	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
N264	N264	26-A-26/27	2	DATA VOICE LOCATION - FLUSH MOUNTED
N264	N264	26-A-28/29	2	DATA VOICE LOCATION - FLUSH MOUNTED
P000	N264	26-A-30	1	SECURITY CAMERA LOCATION - WALL MOUNTED AT 9' 6" A.F.F.
P000	N264	26-A-31	1	SECURITY CAMERA LOCATION - WALL MOUNTED AT 9' A.F.F.
P000	N264	26-A-32	1	DUAL SIDED CLOCK LOCATION
P000	N264	26-A-33/34	2	DIGITAL SIGNAGE LOCATION - FLUSH MOUNTED
P001	N264	26-A-35	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
P100	N264	26-A-36	1	CLOCK LOCATION - FLUSH MOUNTED
P100	N264	26-A-37	1	CLOCK LOCATION - FLUSH MOUNTED
P100	N264	26-A-38/39	2	DATA VOICE LOCATION - FLUSH MOUNTED
P100	N264	26-A-40	1	WALL PHONE LOCATION - FLUSH MOUNTED
P100	N264	26-A-41	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
P100	N264	26-A-42	1	WIRELESS ACCESS POINT - CEILING MOUNTED
P100	N264	26-A-43	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
P000	N264	26-A-44	1	DUAL SIDED CLOCK LOCATION
P000	N264	26-A-45	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
P000	N264	26-A-46	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
P109	N264	26-A-47	1	CLOCK LOCATION - FLUSH MOUNTED
P109	N264	26-A-48/26-B-01	2	DATA VOICE LOCATION - FLUSH MOUNTED
P109	N264	26-B-02/03	2	DATA VOICE LOCATION - FLUSH MOUNTED
P109	N264	26-B-04/05	2	DATA VOICE LOCATION - FLUSH MOUNTED
P110	N264	26-B-06	1	CLOCK LOCATION - FLUSH MOUNTED
P110	N264	26-B-07/08	2	DATA VOICE LOCATION - FLUSH MOUNTED
P110	N264	26-B-09/10	2	DATA VOICE LOCATION - FLUSH MOUNTED
E203	N264	26-B-11/12	2	DATA VOICE LOCATION - FLUSH MOUNTED
E203	N264	26-B-13/14	2	DATA VOICE LOCATION - FLUSH MOUNTED
EXT	N264	26-B-15	1	SECURITY CAMERA LOCATION - WALL MOUNTED
EXT	N264	26-B-16	1	SECURITY CAMERA LOCATION - WALL MOUNTED
EXT	N264	26-B-17	1	SECURITY CAMERA LOCATION - CEILING MOUNTED
SITE	N264	26-B-18	1	SECURITY CAMERA LOCATION - WALL MOUNTED
SITE	N264	26-B-19	1	SECURITY CAMERA LOCATION - POLE MOUNTED
SITE	N264	26-B-20	1	SECURITY CAMERA LOCATION - POLE MOUNTED
SITE	N264	26-B-21	1	SECURITY CAMERA LOCATION - POLE MOUNTED
SITE	N264	26-B-22	1	SECURITY CAMERA LOCATION - POLE MOUNTED
SITE	N264	26-B-23	1	SECURITY CAMERA LOCATION - POLE MOUNTED
SITE	N264	26-B-24	1	WIRELESS ACCESS POINT - POLE MOUNTED
SITE	N264	26-B-25	1	SECURITY CAMERA LOCATION - POLE MOUNTED
SITE	N264	26-B-26	1	SECURITY CAMERA LOCATION - POLE MOUNTED
SITE	N264	26-B-27	1	SECURITY CAMERA LOCATION - POLE MOUNTED
SITE	N264	26-B-28	1	SECURITY CAMERA LOCATION - POLE MOUNTED
P000	N264	26-B-29	1	SECURITY CAMERA - WALL MOUNTED AT 10' 6" A.F.F.
Grand total			76	

IDF D139C ACCESS CONTROL SCHEDULE

DOOR NUMBER	PANEL LOCATION	LABEL	COMMENTS
E000.1	D139C	E000.1-DPS	EAC DOOR TYPE D2.2
E000.2	D139C	E000.2-CR	EAC DOOR TYPE D3.2
E000.3	D139C	E000.3-DPS	EAC DOOR TYPE D2.2

IDF N264 ACCESS CONTROL SCHEDULE

DOOR NUMBER	PANEL LOCATION	LABEL	COMMENTS
927	N264	927-DPS	EAC DOOR TYPE D2.2
E100.1	N264	E100.1-DPS	EAC DOOR TYPE D2.2
E100.6	N264	E100.6-DPS	EAC DOOR TYPE S1.2
E100.7	N264	E100.7-DPS	EAC DOOR TYPE S7.2
E100.8	N264	E100.8-DPS	EAC DOOR TYPE D1.2
E101.1	N264	E101.1-CR	EAC DOOR TYPE D4.2
E101.2	N264	E101.2-DPS	EAC DOOR TYPE D2.2
E101.3	N264	E101.3-DPS	EAC DOOR TYPE D2.2
E101.4	N264	E101.4-DPS	EAC DOOR TYPE D5.2
P000.1	N264	P000.1-CR	EAC DOOR TYPE D6
P000.2	N264	P000.2-DPS	EAC DOOR TYPE D7
P001.1	N264	P001.1-DPS	EAC DOOR TYPE D2.2
P001.2	N264	P001.2-DPS	EAC DOOR TYPE D5.2
P001.3	N264	P001.3-DPS	EAC DOOR TYPE D2.2
P001.4	N264	P001.4-CR	EAC DOOR TYPE D4.2

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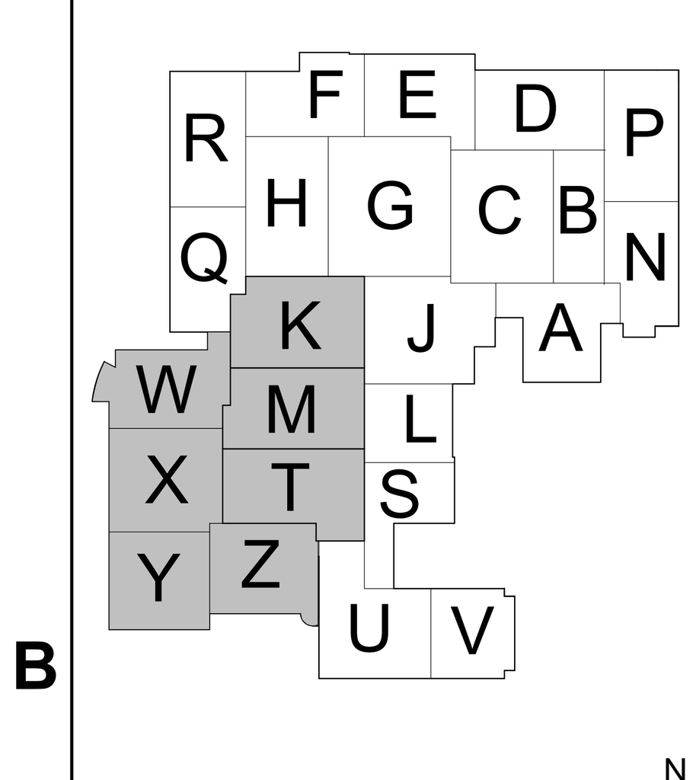

KEY PLAN

M.S.D. of Washington Township

North Central High School Renovation - West Gym Addition

TELECOM / SECURITY SCHEDULES

T500.2

1 OVERALL FIRST FLOOR DEMO PLAN
1/8" = 1'-0"

DEMO TELECOM LEGEND

- DATA LOCATION (# = AMOUNT OF DATA)
- DATA ROUGH-IN LOCATION
- AV INPUT
- AUDIO ONLY INPUT LOCATION
- MONITOR LOCATION
- VOLUME CONTROL LOCATION
- WIRELESS ACCESS POINT - CEILING MOUNTED
- CEILING PROJECTOR LOCATION
- PAGING SPEAKER - CEILING MOUNTED
- PROGRAM AUDIO SPEAKER - CEILING MOUNTED
- PROGRAM AUDIO - WALL MOUNTED
- WALL PHONE LOCATION
- SECURITY CAMERA - CEILING MOUNTED
- SECURITY CAMERA - WALL MOUNTED
- CARD READER LOCATION
- DURESS PANIC BUTTON LOCATION
- DOOR POSITION SWITCH LOCATION
- INTRUSION DETECTION SYSTEM KEYPAD

GENERAL DEMO NOTES

A CONTRACTOR SHALL DEMOLISH ALL EXISTING CABLING OUTLETS WITHIN THE CONSTRUCTION AREA. OUTLETS WITHIN AREAS THAT ARE TO REMAIN OCCUPIED SHALL BE PROTECTED IN PLACE UNTIL THE OUTLETS ARE NO LONGER REQUIRED.

B DEMOLITION SHALL REQUIRE CABLING BE REMOVED IN IN ENTIRETY FROM THE WORK AREA OUTLET BACK TO THE POINT OF TERMINATION IN THE DESIGNATED TELECOM ROOM.

C ALL DEMOLITION SHALL BE COMPLETED ACCORDING TO THE DIVISION 27 SPECIFICATIONS.

A1.2

D ALL EXISTING ALARM AND SECURITY SYSTEM COMPONENTS SERVING THE FACILITY OUTSIDE OF THE CONSTRUCTION AREA SHALL REMAIN FULLY OPERATIONAL THROUGHOUT CONSTRUCTION. IN THE EVENT THAT CONSTRUCTION ACTIVITIES RESULT IN THE NEED TO SHUT DOWN ANY SECURITY SYSTEM OR COMPONENTS THEREOF, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48 HOUR NOTICE TO THE OWNER SO THAT PROPER MEASURES MAY BE TAKEN.

E EXISTING SECURITY SYSTEM COMPONENTS REMOVED DURING DEMOLITION, WHETHER EXPLICITLY SHOWN ON THE DEMOLITION SHEETS OR REMOVED DUE TO CONSTRUCTION ACTIVITIES, SHALL BE REMOVED SUCH THAT THE COMPONENT MAY BE RE-USED IF NEEDED AND TURNED OVER TO THE OWNER FOR STORAGE.

F EXISTING AUDIO-VISUAL EQUIPMENT, WHETHER EXPLICITLY SHOWN ON THE DEMOLITION SHEETS OR AFFECTED BY CONSTRUCTION ACTIVITES SHALL BE REMOVED AND TURNED OVER TO THE OWNER FOR STORAGE.

G EXISTING TELECOM EQUIPMENT, WHETHER EXPLICITLY SHOWN ON THE DEMOLITION SHEETS OR AFFECTED BY CONSTRUCTION ACTIVITES SHALL BE REMOVED AND TURNED OVER TO THE OWNER FOR STORAGE.

H EXISTING MDF LOCATION TO REMAIN THROUGHOUT CONSTRUCTION. CONTRACTOR TO PROTECT ROOM, EQUIPMENT, AND CABLING DURING CONSTRUCTION.

SHEET NOTES

A1.2

1. EXISTING EAC AND INTRUSION DETECTION SYSTEM ENCLOSURES TO REMAIN AND SHALL BE PROTECTED IN PLACE DURING CONSTRUCTION
2. EXISTING PROJECTOR SCREEN SHALL BE REMOVED AND TURNED OVER TO OWNER FOR STORAGE OR DISPOSAL
3. EXISTING PROJECTOR LOCATION SHALL BE REMOVED AND TURNED OVER TO OWNER FOR STORAGE OR DISPOSAL
4. EXISTING KEYPAD LOCATION SHALL REMAIN
5. EXISTING CARD READER LOCATION SHALL REMAIN
6. EXISTING TIME CLOCK IN/OUT LOCATION SHALL REMAIN

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Project No. 2019-067.CBS
Project Date 12.06.2021
Bid Set 02
Produced MJC D27

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
Matthew Connolly
BICSI ID # 212593
EXPIRES 12-31-21
RCDD

DESIGN 27 TECHNOLOGY + ACOUSTICS
1650 E. 49TH ST.
INDIANAPOLIS, IN 46205
317.536.8000
DESIGN27.COM

#	Revision	Date
A1.2	Addendum 1.2	01.13.2022

1815 E. 86th Street
Indianapolis, IN 46240

KEY PLAN

M.S.D. Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE
Transportation Building

OVERALL FIRST FLOOR DEMO PLAN

1-TD101

GENERAL PATHWAYS NOTES

A ALL CABLING SHALL BE TERMINATED IN THE ER/TR NOTED IN THE TELECOM SCHEDULES.

B CONTRACTOR SHALL SUPPLY ALL CONDUIT, BOXES, AND CABLE TRAY AS REQUIRED TO ENSURE ALL TRANSMISSION MEDIA IS FULLY SUPPORTED FROM ALL DEVICE LOCATIONS TO THE POINT OF TERMINATION.

C ALL TELECOM PATHWAY SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED FROM AND ATTACHED TO THE BUILDING STRUCTURE.

D ALL TELECOM PATHWAY SYSTEMS SHALL BE COMPLETELY AND PROPERLY LABELED AS REQUIRED IN REFERENCED STANDARDS.

E CONDUIT SYSTEMS SHALL BE PROVIDED FOR ALL PATHWAYS IN INACCESSIBLE CEILING SPACES AND WHERE EXPOSED TO PUBLIC VIEW. ALL CONDUIT SYSTEMS THROUGHOUT THE BUILDING SHALL INCLUDE PROPERLY SIZED SLEEVED PENETRATIONS THROUGH ALL BARRIERS.

F ALL TELECOM OUTLET BOXES SHALL BE A MINIMUM 4 11/16" SQUARE BOX NO LESS THAN 2 1/8" DEEP.

G CORRIDOR CABLE TRAY SHALL BE PROVIDED AS REQUIRED BY THE CONTRACT DRAWINGS. REFER TO DIVISION 27 SPECIFICATIONS FOR ADDITIONAL PRODUCT DETAILS AND REQUIREMENTS.

H CONTRACTOR SHALL NOT EXCEED 40% FILL RATIO WITHIN ANY CONDUIT MEANT FOR TELECOMMUNICATIONS CABLING.

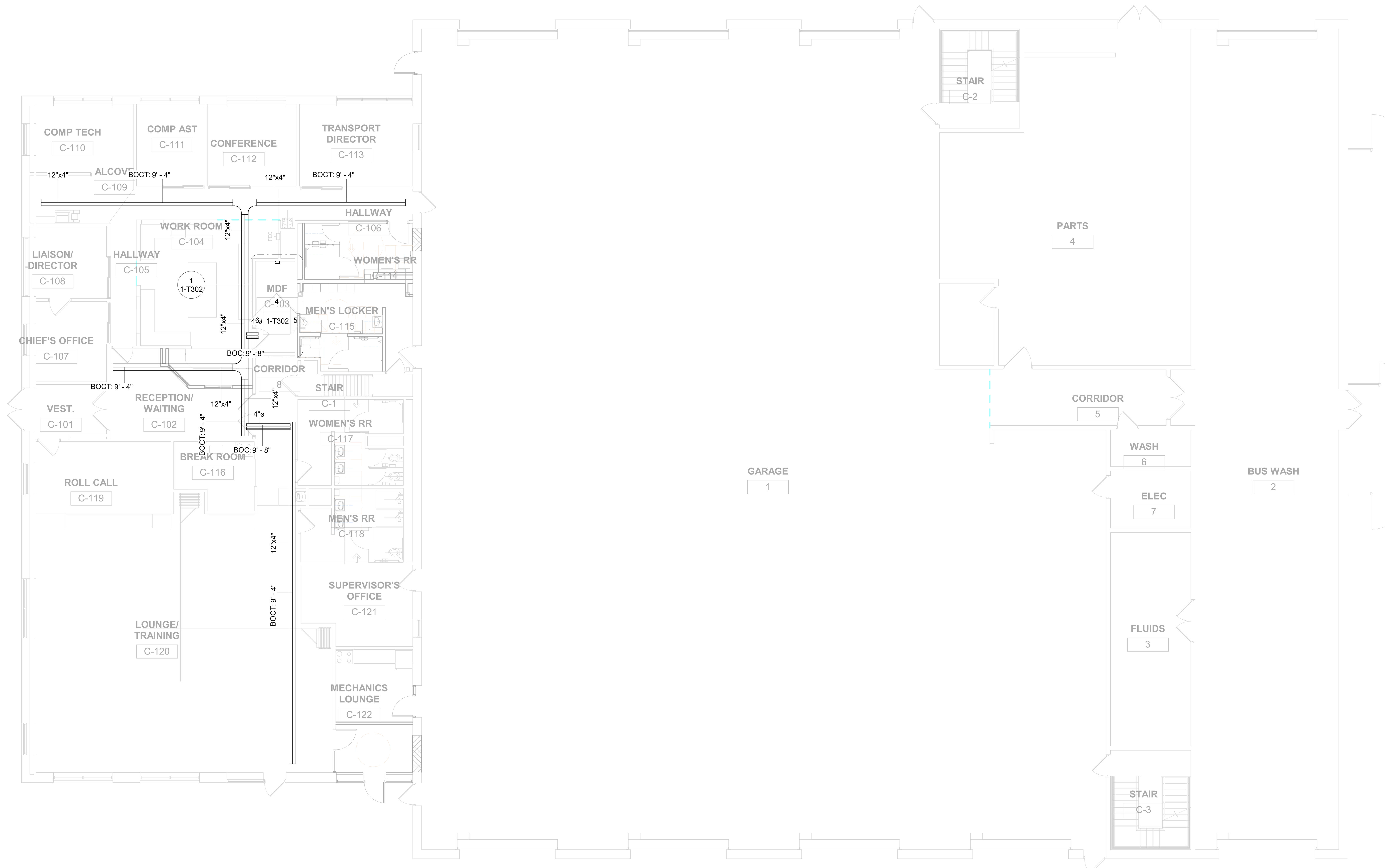
I CONTRACTOR SHALL CALCULATE FILL RATIOS BASED ON ACTUAL CATEGORY 6A CABLING USED. TYPICAL FILL RATIOS FOR CATEGORY 6A CABLE ARE SHOWN HERE FOR REFERENCE PURPOSES ONLY:
1" EMT = 5 CABLES;
1¼" EMT = 9 CABLES;
2" EMT = 21 CABLES;
3" EMT = 57 CABLES;
4" EMT = 96 CABLES

A1.2

J CONDUIT RUNS SHALL BE NO LONGER THAN 100 FEET NOR SHALL CONTAIN MORE THAN TWO 90°BENDS BETWEEN PULLING POINTS. IF THE PATH OF THE CONDUIT RUN REQUIRES BENDS EXCEEDING A TOTAL OF 180°, INSTALLATION OF AN APPROPRIATELY SIZED JUNCTION BOX IS REQUIRED.

K CONTRACTOR SHALL PROVIDE FIRE STOPS TO SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, STAIRS, AND ELEVATORS AS NECESSARY TO MEET CODE REQUIREMENTS. FIRE STOPS SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.

L CONTRACTOR SHALL PROVIDE PROPERLY RATED FIRE STOP SYSTEMS FOR ALL CONDUIT AND/OR CABLE TRAY ENTERING THE TELECOMMUNICATIONS ROOMS. EACH CONTRACTOR IS RESPONSIBLE FOR SEALING PENETRATIONS AFTER EACH SCOPE OF WORK IS COMPLETED.



1 OVERALL FIRST FLOOR DISTRIBUTION PLAN
1/8" = 1'-0"

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KEY PLAN

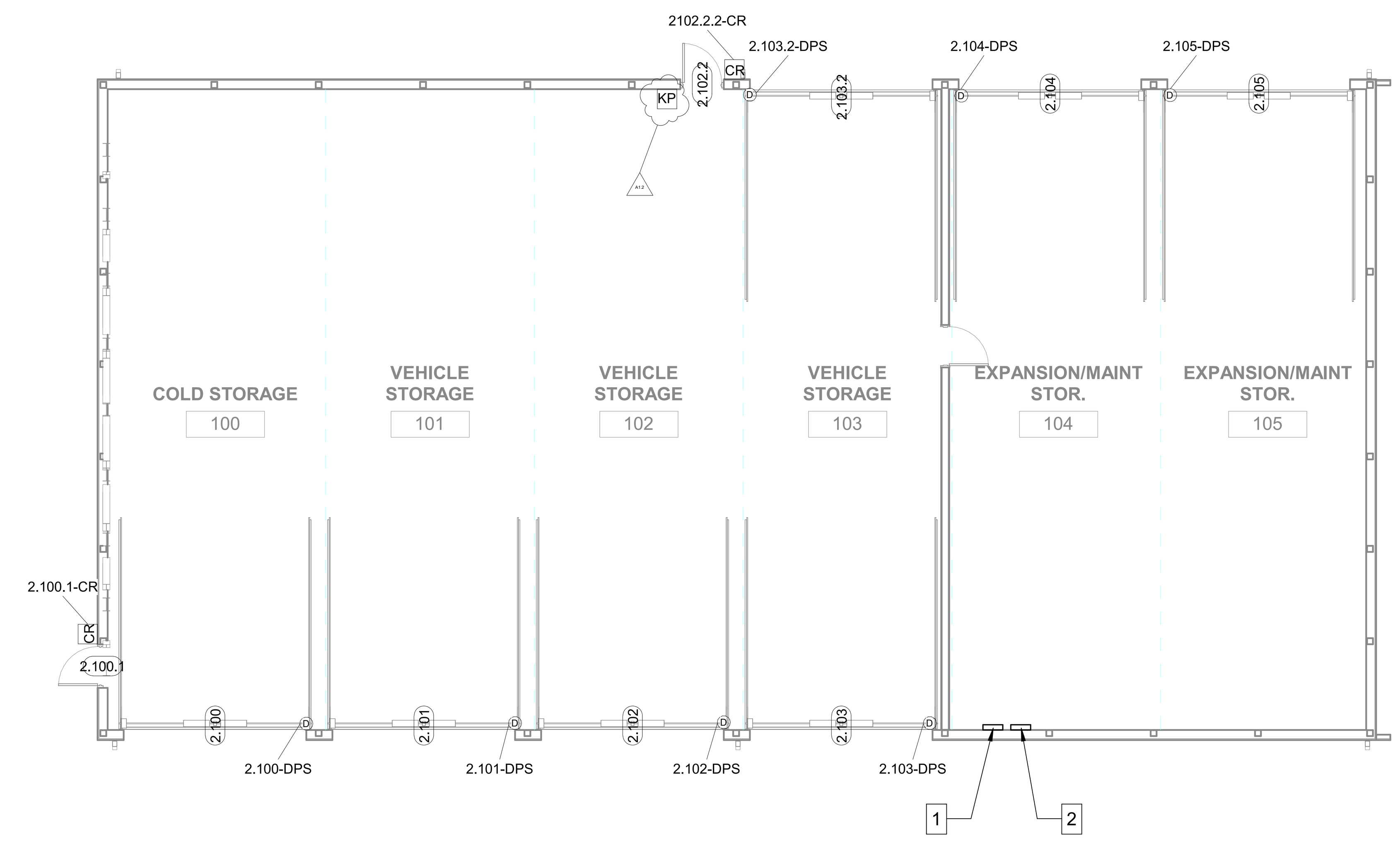
M.S.D. Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE
Transportation Building

OVERALL FIRST FLOOR DISTRIBUTION PLAN

1-TF101



1 MAINTENANCE STORAGE BUILDING
1/8" = 1'-0"

TELECOM LEGEND

- CR — CARD READER LOCATION
- D — DOOR POSITION SWITCH LOCATION
- KP — INTRUSION DETECTION SYSTEM KEYPAD

A1.2

GENERAL HORIZONTAL CABLING NOTES

A HORIZONTAL CABLING SHALL BE CATEGORY 6A COMPLIANT, 4-PAIR UNSHIELDED TWISTED PAIR (UTP). ALL HORIZONTAL CABLING MUST BE PLENUM RATED.

B HORIZONTAL CABLING SHALL BE MANUFACTURER CERTIFIED INCLUDING THE MINIMIMUM PERFORMANCE AND APPLICATIONS WARRANTY.

C PAINTING OF THE HORIZONTAL CABLING WILL VOID THE WARRANTY. ENSURE PROPER COORDINATION WITH PAINTING CONTRACTOR SO THAT ALL HORIZONTAL CABLING IS PROTECTED PRIOR TO ANY PAINTING.

D PROVIDE A MINIMUM 10 FOOT MAINTENANCE LOOP ON EACH HORIZONTAL CABLING RUN. MAINTENANCE LOOPS SHALL BE STORED ABOVE ACCESIBLE CEILINGS, IN CABLE TRAY, AND IN TELECOMMUNICATION ROOM CABLE TRAY. CABLING ABOVE CEILING SHALL BE SUSPENDED FROM APPROPRIATE SUPPORTS AND SHALL NOT TOUCH THE CEILING.

E ALL PIN/PAIR ASSIGNMENTS SHALL BE T568B.

F REFER TO SPECIFICATION SECTION 27 15 13 FOR CABLE JACKET COLOR REQUIREMENTS.

G LABELING SHALL BE COMPLETED AS DEFINED IN THE CONTRACT DOCUMENTS AND SHALL BE COORDINATED WITH THE OWNER.

H PROVIDE ALL TELECOMMUNICATION OUTLETS AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO PROVIDE CONNECTIONS FOR EACH DEVICE SHOWN ON THE DRAWINGS.

I ALL TESTING OF HORIZONTAL CABLING SHALL BE COMPLETED AS DIRECTED BY THE PROJECT SPECIFICATIONS. ALL CABLING MUST BE TESTED AND CERTIFIED TO THE APPLICABLE STANDARDS.

SHEET NOTES

1. ACCESS CONTROL ENCLOSURE
2. INTRUSION DETECTION ENCLOSURE

ACCESS CONTROL SCHEDULE

DOOR NUMBER	PANEL LOCATION	LABEL	DOOR TYPE
2.100	C-103	2.100-DPS	EAC DOOR TYPE S7
2.100.1	C-103	2.100.1-CR	EAC DOOR TYPE S3
2.101	C-103	2.101-DPS	EAC DOOR TYPE S7
2.102	C-103	2.102-DPS	EAC DOOR TYPE S7
2.103	C-103	2.103-DPS	EAC DOOR TYPE S7
2.103.2	C-103	2.103.2-DPS	EAC DOOR TYPE S7
2.104	C-103	2.104-DPS	EAC DOOR TYPE S7
2.105	C-103	2.105-DPS	EAC DOOR TYPE S7
2102.2.2	C-103	2102.2.2-CR	EAC DOOR TYPE S3
2102.2.2	C-103	2.104	

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Street Address
City , State Zip

KEY PLAN

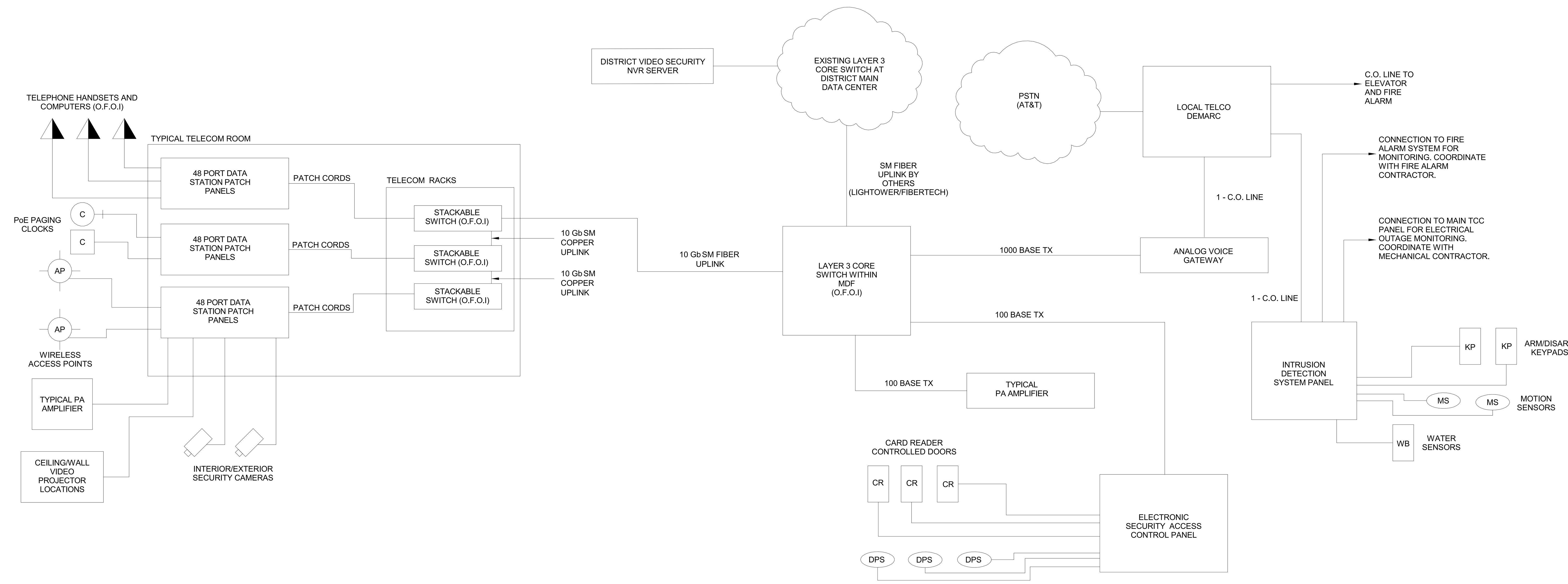
M.S.D. of Washington Township

WASHINGTON TOWNSHIP SCHOOLS

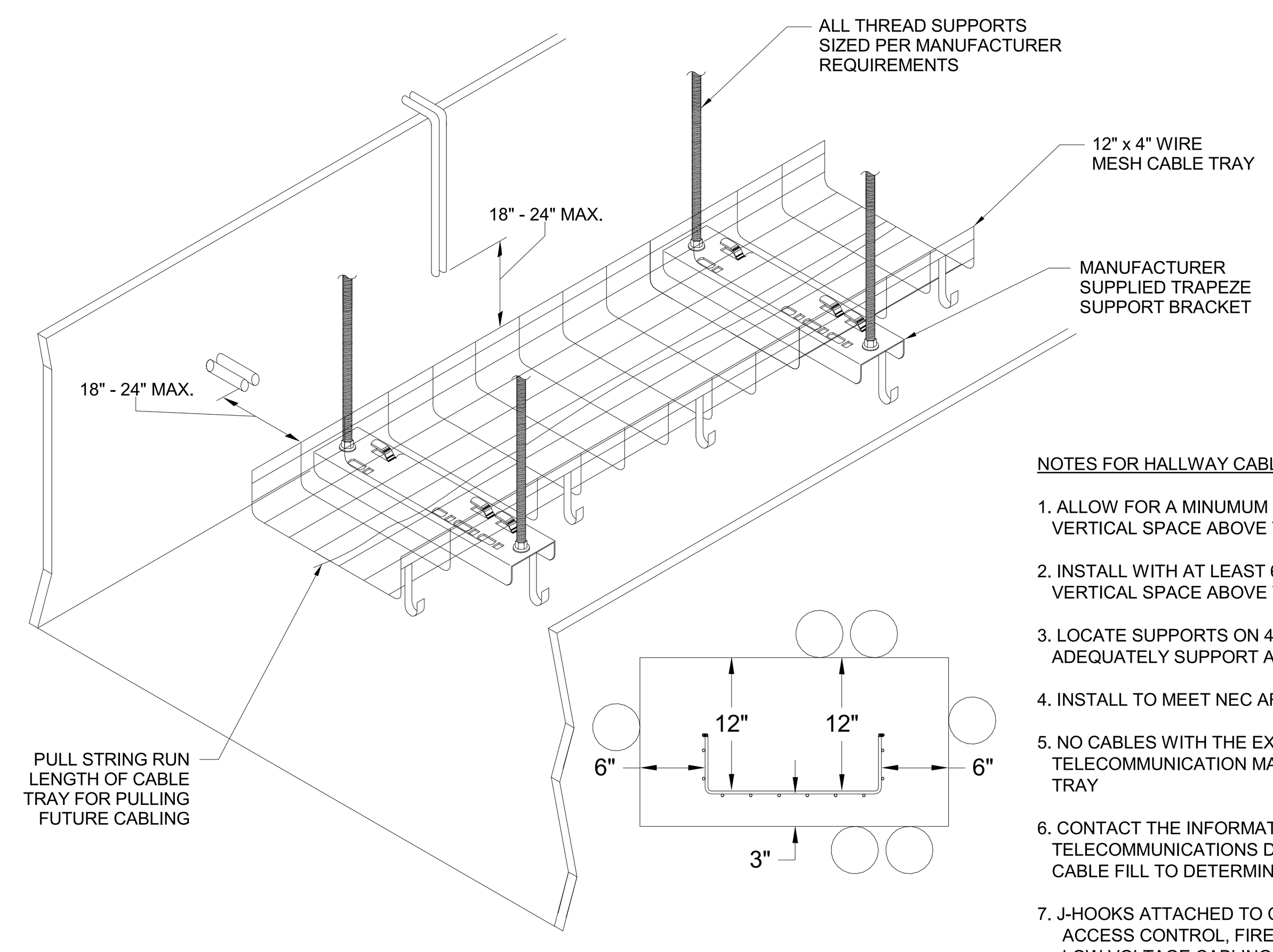
CENTRALIZED BUS STORAGE

MAINTENANCE STORAGE BUILDING

2-TF203



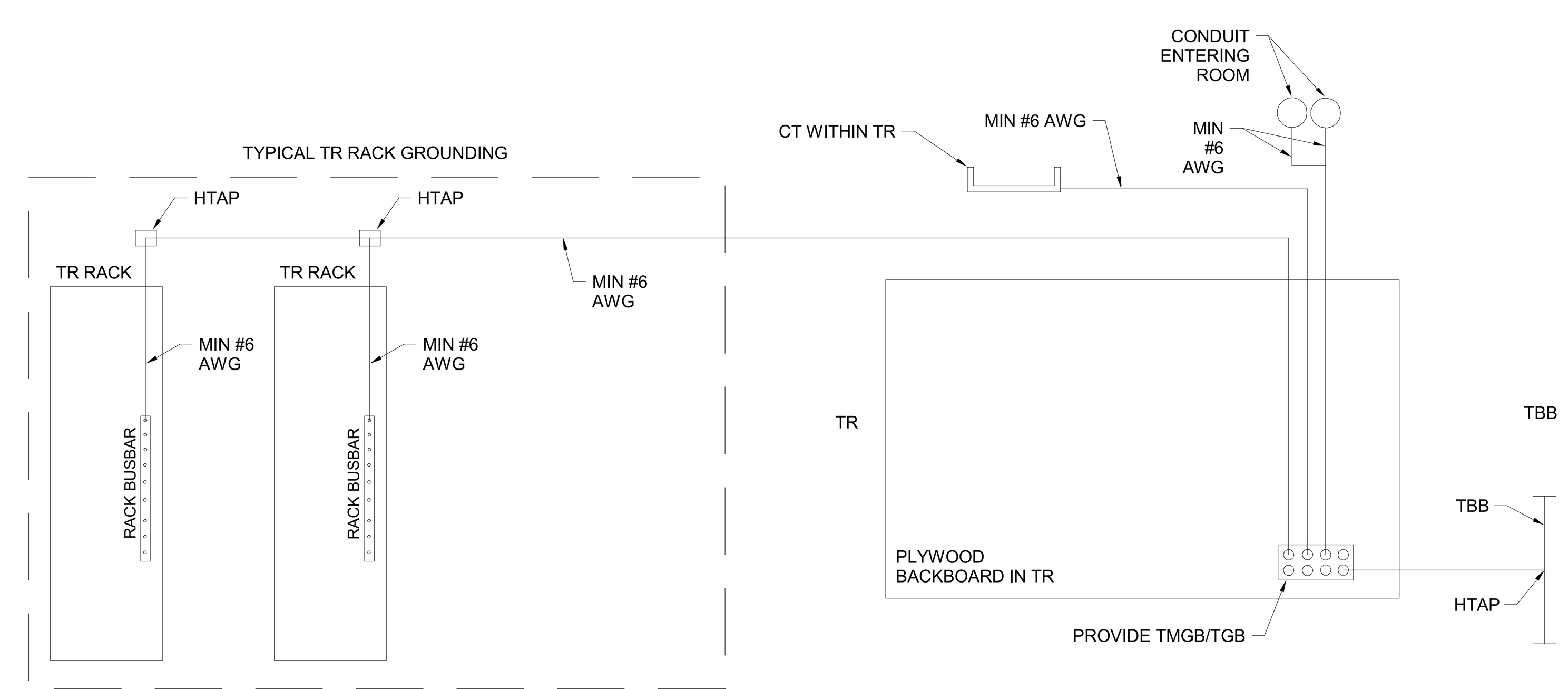
1 NEW OVERALL TECHNOLOGY DIAGRAM
N.T.S.



NOTES FOR HALLWAY CABLE TRAY DISTRIBUTION

1. ALLOW FOR A MINUMUM OF 12 INCHES OF CLEAR VERTICAL SPACE ABOVE THE CABLE TRAY
2. INSTALL WITH AT LEAST 6 INCHES OF CLEAR VERTICAL SPACE ABOVE THE CEILING TILES
3. LOCATE SUPPORTS ON 4 FT TO 5 FT CENTERS TO ADEQUATELY SUPPORT AND DISTRIBUTE CABLE WEIGHT
4. INSTALL TO MEET NEC ARTICLE 318
5. NO CABLES WITH THE EXCEPTION OF TELECOMMUNICATION MAY BE PLACED ON THE CABLE TRAY
6. CONTACT THE INFORMATION TECHNOLOGY TELECOMMUNICATIONS DEPARTMENT WITH CABLE TRAY CABLE FILL TO DETERMINE LOAD CAPACITY OF THE SYSTEM
7. J-HOOKS ATTACHED TO CABLE TRAY SUPPORTS FOR ALL ACCESS CONTROL, FIRE ALARM, AND OTHER APPROVED LOW VOLTAGE CABLING.

2 TYPICAL CORRIDOR CABLE TRAY
N.T.S.



4 TYPICAL TELECOM ROOM GROUND DIAGRAM
N.T.S.

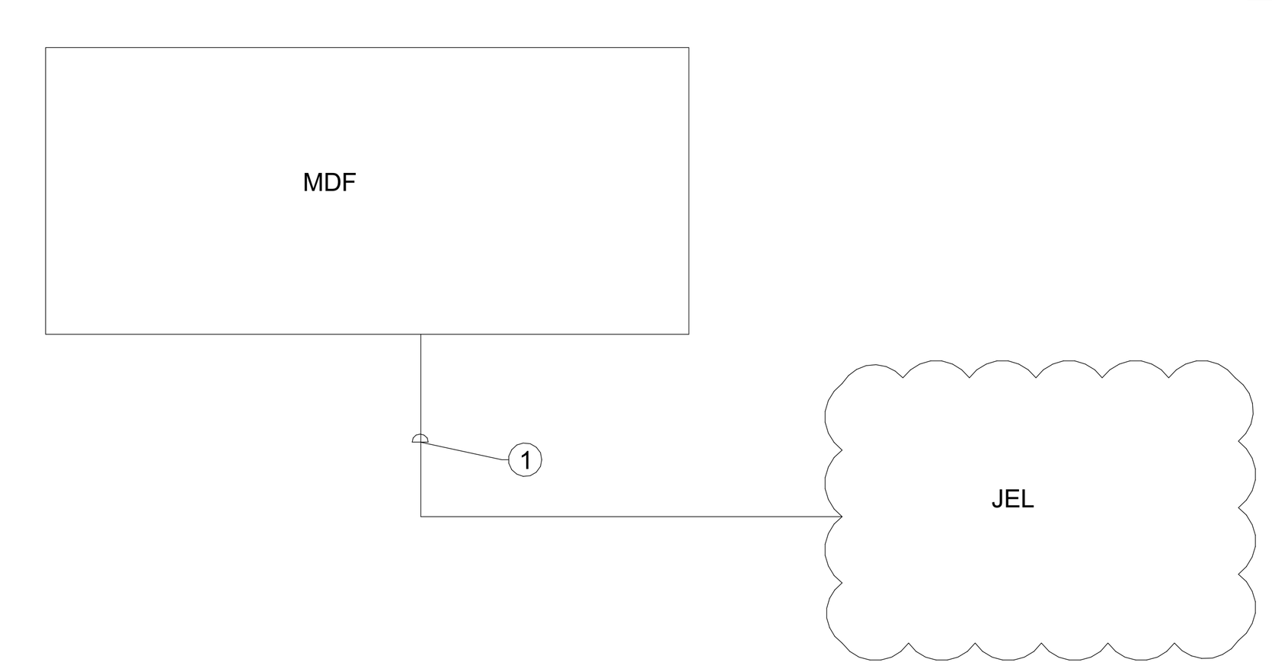
*RISER CABLES ENTERING MDF AND TELECOMMUNICATIONS ROOM(S) SHALL CONTINUE WITHIN EACH ROOM TO THEIR SPECIFIED TERMINATION POINT WITH REQUIRED SERVICE LOOP (SEE NOTES WITHIN THIS DIAGRAM)

RISER LEGEND: (THIS DETAIL)

1.EXISTING OSP FIBER OPTIC CABLING TO REMAIN.

RISER NOTES (THIS DETAIL)

A. UNLESS OTHERWISE NOTED, RISER TERMINATIONS SHALL BE AS FOLLOWS:
   1) SINGLE MODE FIBER OPTIC CABLE WILL TERMINATE IN PATCH PANELS IN THE RACKS AT EACH END;
B. CONTRACTOR SHALL CONFIRM ALL RISER CABLE LABELING WITH OWNER PRIOR TO FINAL IDENTIFICATION AND LABELING.



5 TELECOM RISER CABLING DIAGRAM
N.T.S.

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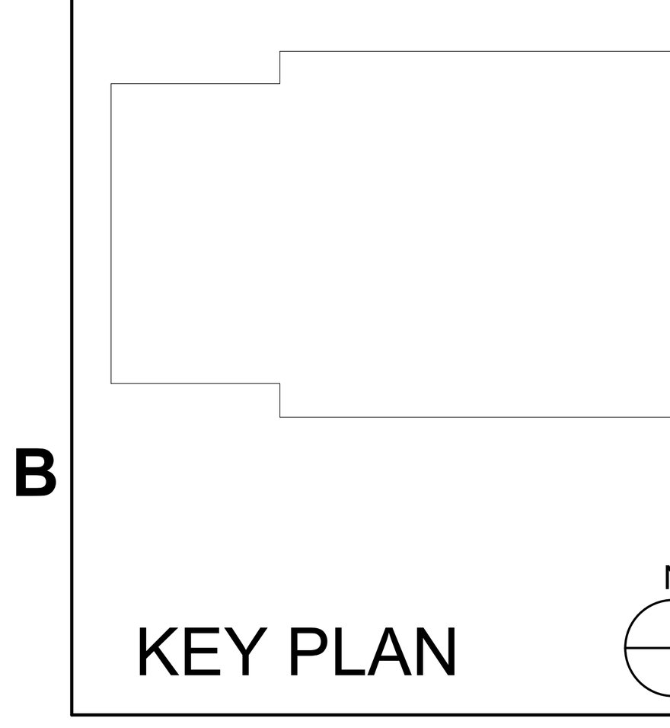

KEY PLAN

M.S.D. Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE
Transportation Building

TELECOM DIAGRAMS

1-T300

MDF C-103 TELECOM SCHEDULE

ROOM NUMBER	TELECOM ROOM	Mark	TOTAL DATA	Comments
1	C-103	01-A-01	1	SECURITY CAMERA - WALL MOUNTED
1	C-103	01-A-02	1	SECURITY CAMERA - WALL MOUNTED
1	C-103	01-A-03	1	TIME CLOCK IN/OUT LOCATION
1	C-103	01-A-04	1	WIRELESS ACCESS LOCATION - CEILING MOUNTED
8	C-103	01-A-05	1	TIME CLOCK IN/OUT LOCATION
10	C-103	01-A-06	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-101	C-103	01-A-07	1	TIME CLOCK IN/OUT LOCATION
C-102	C-103	01-A-08/09/10/11	4	DATA VOICE LOCATION - FLUSH MOUNTED
C-102	C-103	01-A-12	1	WIRELESS ACCESS LOCATION - CEILING MOUNTED
C-102	C-103	01-A-13	1	SECURITY CAMERA - CEILING MOUNTED
C-103	C-103	01-A-14/15	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-103	C-103	01-A-16/17	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-104	C-103	01-A-18/19	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-104	C-103	01-A-20/21	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-104	C-103	01-A-22/23	2	MONITOR LOCATION - FLUSH MOUNTED
C-104	C-103	01-A-24	1	WIRELESS ACCESS LOCATION - CEILING MOUNTED
C-104	C-103	01-A-24/25	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-107	C-103	01-A-26/27	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-109	C-103	01-A-27	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-108	C-103	01-A-28/29	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-110	C-103	01-A-30/31	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-110	C-103	01-A-32/33	2	MONITOR LOCATION - FLUSH MOUNTED
C-111	C-103	01-A-34/35	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-112	C-103	01-A-36/37	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-112	C-103	01-A-38/39	2	MONITOR LOCATION - FLUSH MOUNTED
C-113	C-103	01-A-40/41	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-113	C-103	01-A-42/43	2	MONITOR LOCATION - FLUSH MOUNTED
C-119	C-103	01-A-44/45	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-119	C-103	01-A-46/47	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-119	C-103	01-A-48/01-B-01	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-120	C-103	01-B-02/03	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-120	C-103	01-B-04/05	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-120	C-103	01-B-06/07	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-120	C-103	01-B-08/09	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-120	C-103	01-B-10/11	2	MONITOR LOCATION - SURFACE MOUNTED
C-120	C-103	01-B-12/13	2	MONITOR LOCATION - SURFACE MOUNTED
C-120	C-103	01-B-15/16	2	MONITOR LOCATION - SURFACE MOUNTED
C-120	C-103	01-B-17	1	SECURITY CAMERA - CEILING MOUNTED
C-120	C-103	01-B-18	1	PROJECTOR LOCATION - CEILING MOUNTED
C-120	C-103	01-B-19	1	WIRELESS ACCESS LOCATION - CEILING MOUNTED
C-121	C-103	01-B-20/21	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-122	C-103	01-B-22/23	2	DATA VOICE LOCATION - SURFACE MOUNTED
EXT	C-103	01-B-24	1	SECURITY CAMERA - WALL MOUNTED
EXT	C-103	01-B-25	1	SECURITY CAMERA - WALL MOUNTED
EXT	C-103	01-B-26	1	SECURITY CAMERA - WALL MOUNTED
SITE	C-103	01-B-27	1	SECURITY CAMERA - POLE MOUNTED
SITE	C-103	01-B-28	1	SECURITY CAMERA - POLE MOUNTED
SITE	C-103	01-B-30	1	SECURITY CAMERA - POLE MOUNTED
SITE	C-103	01-B-31	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-32	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-33	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-34	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-35	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-36	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-37	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-38	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-39	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-40	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-41	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-42	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-43	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-44	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-45	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-46	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-47	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-48	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-C-01	1	SECURITY CAMERA - POLE MOUNTED
SITE	C-103	01-C-08	1	SECURITY CAMERA - POLE MOUNTED
SITE	C-103	01-C-09	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-C-10	1	SECURITY CAMERA - WALL MOUNTED

Grand Total: 70

1

ACCESS CONTROL SCHEDULE

DOOR NUMBER	PANEL LOCATION	LABEL	COMMENTS
1.1	C-103	1.1-CR	EAC DOOR TYPE S3
44	C-103	44-CR	EAC EXISTING EQUIPMENT TO REMAIN
72	C-103	72-DPS	EAC DOOR TYPE S1
74	C-103	74-CR	EAC EXISTING EQUIPMENT TO REMAIN
76	C-103	76-DPS	EAC DOOR TYPE S1
84	C-103	84-DPS	EAC DOOR TYPE D1
87	C-103	87-DPS	EAC DOOR TYPE D1
139	C-103	139-DPS	EAC DOOR TYPE S1
141	C-103	141-CR	EAC EXISTING EQUIPMENT TO REMAIN
176	C-103	176-CR	EAC DOOR TYPE S3
185	C-103	185-DPS	EAC DOOR TYPE S7
186	C-103	186-DPS	EAC DOOR TYPE S7
187	C-103	187-DPS	EAC DOOR TYPE S7
188	C-103	188-DPS	EAC DOOR TYPE S7
189	C-103	189-DPS	EAC DOOR TYPE S7
190	C-103	190-DPS	EAC DOOR TYPE S7
191	C-103	191-DPS	EAC DOOR TYPE S7
192	C-103	192-DP2	EAC DOOR TYPE S7
193	C-103	193-DPS	EAC DOOR TYPE S7
C-120A.1	C-103	C-120A.1-CR	EAC DOOR TYPE S6

SHEET NOTES

1. REFER TO SHEET TF001.2 FOR SITE DEVICE LOCATIONS.

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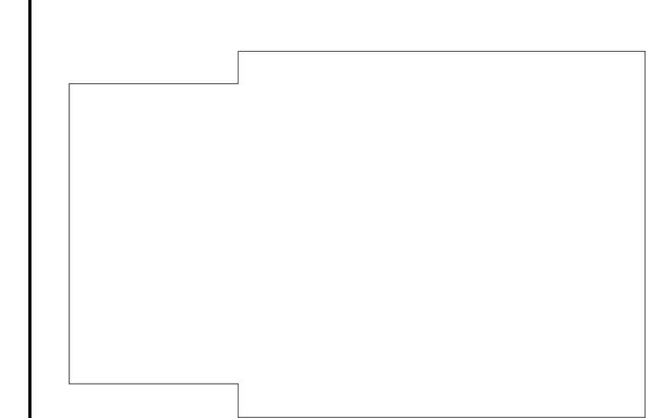

KEY PLAN

N

M.S.D. Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE
Transportation Building

TELECOM / SECURITY SCHEDULES (BASE BID)

1-T500

MDF C-103 TELECOM SCHEDULE (ALTERNATE)

ROOM NUMBER	TELECOM ROOM	Mark	TOTAL DATA	Comments
1	C-103	01-A-01	1	SECURITY CAMERA - WALL MOUNTED
1	C-103	01-A-02	1	SECURITY CAMERA - WALL MOUNTED
1	C-103	01-A-03	1	TIME CLOCK IN/OUT LOCATION
1	C-103	01-A-04	1	WIRELESS ACCESS LOCATION - CEILING MOUNTED
8	C-103	01-A-05	1	TIME CLOCK IN/OUT LOCATION
10	C-103	01-A-06	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-101	C-103	01-A-07	1	TIME CLOCK IN/OUT LOCATION
C-102	C-103	01-A-08/09/10/11	4	DATA VOICE LOCATION - FLUSH MOUNTED
C-102	C-103	01-A-12	1	WIRELESS ACCESS LOCATION - CEILING MOUNTED
C-102	C-103	01-A-13	1	SECURITY CAMERA - CEILING MOUNTED
C-103	C-103	01-A-14/15	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-103	C-103	01-A-16/17	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-104	C-103	01-A-18/19	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-104	C-103	01-A-20/21	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-104	C-103	01-A-22/23	2	MONITOR LOCATION - FLUSH MOUNTED
C-104	C-103	01-A-24	1	WIRELESS ACCESS LOCATION - CEILING MOUNTED
C-104	C-103	01-A-24/25	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-107	C-103	01-A-26/27	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-109	C-103	01-A-27	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-108	C-103	01-A-28/29	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-110	C-103	01-A-30/31	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-110	C-103	01-A-32/33	2	MONITOR LOCATION - FLUSH MOUNTED
C-111	C-103	01-A-34/35	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-112	C-103	01-A-36/37	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-112	C-103	01-A-38/39	2	MONITOR LOCATION - FLUSH MOUNTED
C-113	C-103	01-A-40/41	2	DATA VOICE LOCATION - SURFACE MOUNTED
C-113	C-103	01-A-42/43	2	MONITOR LOCATION - FLUSH MOUNTED
C-119	C-103	01-A-44/45	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-119	C-103	01-A-46/47	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-119	C-103	01-A-48/01-B-01	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-120	C-103	01-B-02/03	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-120	C-103	01-B-04/05	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-120	C-103	01-B-06/07	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-120	C-103	01-B-08/09	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-120	C-103	01-B-10/11	2	MONITOR LOCATION - SURFACE MOUNTED
C-120	C-103	01-B-12/13	2	MONITOR LOCATION - SURFACE MOUNTED
C-120	C-103	01-B-15/16	2	MONITOR LOCATION - SURFACE MOUNTED
C-120	C-103	01-B-17	1	SECURITY CAMERA - CEILING MOUNTED
C-120	C-103	01-B-18	1	PROJECTOR LOCATION - CEILING MOUNTED
C-120	C-103	01-B-19	1	WIRELESS ACCESS LOCATION - CEILING MOUNTED
C-121	C-103	01-B-20/21	2	DATA VOICE LOCATION - FLUSH MOUNTED
C-122	C-103	01-B-22/23	2	DATA VOICE LOCATION - SURFACE MOUNTED
EXT	C-103	01-B-24	1	SECURITY CAMERA - WALL MOUNTED
EXT	C-103	01-B-25	1	SECURITY CAMERA - WALL MOUNTED
EXT	C-103	01-B-26	1	SECURITY CAMERA - WALL MOUNTED
SITE	C-103	01-B-27	1	SECURITY CAMERA - POLE MOUNTED
SITE	C-103	01-B-28	1	SECURITY CAMERA - POLE MOUNTED
SITE	C-103	01-B-30	1	SECURITY CAMERA - POLE MOUNTED
SITE	C-103	01-B-31	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-32	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-33	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-34	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-35	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-36	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-37	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-38	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-39	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-40	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-41	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-42	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-43	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-44	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-45	1	WIRELESS ACCESS LOCATION - CANOPY MOUNTED
SITE	C-103	01-B-46	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-47	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-B-48	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-C-01	1	SECURITY CAMERA - POLE MOUNTED
SITE	C-103	01-C-02	1	SECURITY CAMERA - CANOPY MOUNTED (ALTERNATE)
SITE	C-103	01-C-03	1	SECURITY CAMERA - CANOPY MOUNTED (ALTERNATE)
SITE	C-103	01-C-04	1	SECURITY CAMERA - CANOPY MOUNTED (ALTERNATE)
SITE	C-103	01-C-05	1	SECURITY CAMERA - CANOPY MOUNTED (ALTERNATE)
SITE	C-103	01-C-06	1	SECURITY CAMERA - CANOPY MOUNTED (ALTERNATE)
SITE	C-103	01-C-07	1	SECURITY CAMERA - CANOPY MOUNTED (ALTERNATE)
SITE	C-103	01-C-08	1	SECURITY CAMERA - POLE MOUNTED
SITE	C-103	01-C-09	1	SECURITY CAMERA - CANOPY MOUNTED
SITE	C-103	01-C-10	1	SECURITY CAMERA - WALL MOUNTED

Grand Total: 76

SHEET NOTES

1. REFER TO SHEET TF002.2 FOR SITE DEVICE LOCATIONS.

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KEY PLAN

N

M.S.D. Washington Township

WASHINGTON TOWNSHIP SCHOOLS

CENTRALIZED BUS STORAGE
Transportation Building

TELECOM/SECURITY SCHEDULES (ALTERNATE)

1-T501