Clark & Enersen Project No.: 097-045-19
LPS Bid #: 11090

ADDENDUM NO. 1

The Architect/ Engineer issues this addendum, applicable to the above named project, to all known Contractors before receipt of proposal.

This addendum includes Item Number 1-1 thru 1-6. This addendum item shall be fully incorporated into the Bidding/Contract Documents and have the same force and effect as though originally included.

The Bidder shall acknowledge receipt of this Addendum No. 1 on the Bid Proposal Form in the place provided.

SPECIFICATIONS

Item 1-1: Section 08 71 00A – Finish Hardware (SBHS)

This section has been revised and reissued in its entirety as part of this Addendum.

NORTHWEST ACTIVITIES COMPLEX

No Items

SOUTHEAST ACTIVITIES COMPLEX

ARCHITECTURAL

Item 1-2: SEAC - Sheet A0.02 – Exterior Assemblies

Refer to attached revised sheet. Notes revised in exterior assembly details.

ELECTRICAL

Item 1-3: Sheet E0.01 – Electrical Site Utilities Plan

This sheet has been revised and reissued in its entirety as part of this Addendum to show new fiber back to the school, in lieu of splicing.

Item 1-4: Sheet E0.02 – Overall Electrical Site Utilities Plan

This sheet has been added in its entirety as part of this Addendum to show new fiber back to the school, in lieu of splicing.

Item 1-5: Sheet E1.10 – First Floor Lighting Plan (Phase 1)

This sheet has been revised and reissued in its entirety as part of this addendum to clarify exterior light fixture mounting heights, and show the addition of one exterior light fixture.

TELECOMMUNICATIONS

Item 1-6: Sheet T2.01 – Telecommunications Risers & Details

This sheet has been revised and reissued in its entirety as part of this Addendum to show new fiber back to the school, in lieu of splicing.

END OF ADDENDUM NO. 1

SECTION 08 71 00A – FINISH HARDWARE (SBHS) – REISSUED ADD-001

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Door Hardware, including electric hardware.
2. Storefront and entrance door hardware.
3. Power supplies for electric hardware.
4. Low energy door operators plus sensors and actuators.
5. Cylinders for doors fabricated with locking hardware.
6. Wiring and riser diagrams for electric hardware.

B. Related Sections:

1. Section 06 20 00 - Finish Carpentry: Finish Hardware Installation.
2. Section 08 11 13 - Metal Doors and Frames.
3. Section 08 14 16 - Wood and Plastic Doors.
4. Section 08 41 13 - Entrances and Storefronts.
5. Division 28 - Security Access Systems.

1.2 REFERENCES

A. Use date of standard in effect as of Bid date.

B. American National Standards Institute – ANSI 156.18 – Materials and Finishes.

C. ICC/ANSI A117.1 - 1998 – Specifications for making buildings and facilities usable by physically handicapped people.

D. ADA – Americans with Disabilities Act of

E. BHMA – Builders Hardware Manufacturers Association

F. DHI – Door and Hardware Institute

G. NFPA – National Fire Protection Association

1. NFPA 80 – Fire Doors and Windows
2. NFPA 101 – Life Safety Code
3. NFPA 105 – Smoke and Draft Control Door Assemblies
4. NFPA 252 – Fire Tests of Door Assemblies

H. UL – Underwriters Laboratories

1. UL10B – Fire Tests of Door Assemblies as amended to incorporate positive pressure testing.
2. UL 305 – Panic Hardware

I. WHI – Warnock Hersey Incorporated

J. Local applicable codes

K. SDI – Steel Door Institute

L. AWI – Architectural Woodwork Institute

M. NAAMM – National Association of Architectural Metal Manufacturers

1.3 SUBMITTALS & SUBSTITUTIONS

A. SUBMITTALS: Submit six copies of schedule per Division 1. Organize vertically formatted schedule into “Hardware Sets” with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:

1. Type, style, function, size, quantity and finish of hardware items.
2. Use BHMA Finish codes per ANSI A156.18.
3. Name, part number and manufacturer of each item.
4. Fastenings and other pertinent information.
5. Location of hardware set coordinated with floor plans and door schedule.
6. Explanation of abbreviations, symbols, and codes contained in schedule.
7. Mounting locations for hardware.
8. Door and frame sizes, materials and degrees of swing.
9. List of manufacturers used and their nearest representative with address and phone number.
10. Catalog cuts.
11. Manufacturer’s technical data and installation instructions for electronic hardware.
12. Date of jobsite visit.

B. Bid and submit manufacturer’s updated/improved item if scheduled item is discontinued.

C. Make substitution requests in accordance with Division 1. Include product data and indicate benefit to the Project. Furnish operating samples on request.

1. Items listed with no substitute manufacturers have been requested by Owner to meet existing standard.

D. Furnish as-built/as-installed schedule with closeout documents, manufacturers’ installation, adjustment and maintenance information, and supplier’s final inspection report.

1.4 QUALITY ASSURANCE

A. Qualifications:

1. Hardware supplier: direct factory contract supplier who employs a Certified Architectural Hardware Consultant (AHC), available at reasonable times during course Work for project hardware consultation to Owner, Architect and Contractor. (This does not include DBA suppliers).

    a. Responsible for detailing, scheduling and ordering of finish hardware.

B. Hardware: New, free of defects, blemishes and excessive play. Obtain each kind of hardware (latch and locksets, exit devices, hinges and closers) from one manufacturer.

C. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.

D. Fire-Rated Openings: NFPA 80 compliant. Hardware UL10C / UBC Standard 7-2 (positive pressure) compliant for given type/size opening and degree of label. Provide proper latching hardware, non-flaming door closers, approved-bearing hinges, and resilient seals. Coordinate with wood door section for required intumescent seals. Furnish openings complete.

E. Furnish hardware items required to complete the work in accordance with specified performance level and design intent, complying with manufacturers' instructions.

1. Where scheduled item is now obsolete, bid and furnish manufacturer's updated item at no additional cost to LPS.

F. Pre-Installation Meetings: Initiate and conduct with supplier, installer and related trades, coordinate materials and techniques, and sequence complex hardware items and systems installation. Include manufacturers' representatives of locks, panic hardware and door closers in the meetings. Convene at least one week prior to commencement of related work.

1.5 DELIVERY, STORAGE AND HANDLING

A. Delivery: coordinate delivery to appropriate locations (shop or field).

1. Permanent keys and cores: secured delivery direct to Owner's representative.
2. Hardware for aluminum door manufacture direct to supplier excluding power supplies, electrical boards and actuators

B. Acceptance at Site: Items individually packaged in manufacturers' original containers, complete with proper fasteners and related pieces. Clearly mark packages to indicate contents, locations in hardware schedule and door numbers.

C. Storage: Provide securely locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, dust, excessive heat and cold, etc.

1.6 PROJECT CONDITIONS

A. Where exact types of hardware specified are not adaptable to finished shape or size of members requiring hardware, provide suitable types having as nearly as practical as the same operation and quality as type specified, subject to Architect's approval.

B. Prior to submittal, carefully inspect existing conditions to verify finish hardware required to complete Work, including sizes, quantities, existing hardware scheduled for re-use, and sill condition material. If conflict between the specified/scheduled hardware and existing conditions, submit request for direction from Architect. Include date of jobsite visit in the submittal.

1. Submittals prepared without thorough jobsite visit by qualified hardware expert will be rejected as non-compliant.

1.7 SEQUENCING AND COORDINATION

A. Reinforce walls for wall-mounted hardware.

B. Coordinate finish floor materials and floor-mounted hardware.

C. Conduit and raceways as needed for electrical, electronic and electro-pneumatic hardware items. Fire/life-safety system interfacing. Point-to-point wiring diagrams plus riser diagrams to related trades.

D. Furnish manufacturer templates to door and frame fabricators.

1. Ensure proper blocking in wood doors to support wood screws for panic hardware and door closers.
2. Ensure proper reinforcement in aluminum doors, aluminum frames, metal doors and frames to support machine screws for panic hardware and door closers.

E. Use hardware consultant to check Shop Drawings for doors and entrances to confirm that adequate provisions will be made for proper hardware installation.

1.8 WARRANTY

A. Part of respective manufacturers' regular terms of sale. Provide manufacturers' warranties:

1. Locksets: ND series Seven years.
2. Exit Devices: Three years mechanical, one year electrical.
3. Closers: Ten years mechanical, two years electrical.
4. Other Hardware: One year.

1.9 COMMISSIONING

A. Conduct these tests three weeks prior to request for certificate of substantial completion

B. Test door hardware operation with climate control system and stairwell pressurization system both at rest and while in full operation.

C. Test electrical, electronic and electro-pneumatic hardware systems for satisfactory operation.

D. Test hardware interfaced with fire/life-safety system for proper operation and release.

PART 2. PRODUCTS

2.1 MANUFACTURERS

A. Listed acceptable alternate manufacturers: submit for review products with equivalent function and features of scheduled products.

ITEM:	MANUFACTURER:	ACCEPTABLE SUB:
Hinges	(IVE) Ives	Hager, Stanley
Continuous Hinges	(IVE) Ives	Select, ABH
Key System	(SCH) Schlage Primus	No Substitution
Locks	(SCH) Schlage	No Substitution
Exit Devices	(VON) Von Duprin	No Substitution
Closers	(LCN) LCN	No Substitution
Operators	(LCN) LCN	No Substitution
Auto Flush Bolts	(IVE) Ives	DCI, Trimco
Coordinators	(IVE) Ives	DCI, Trimco
Push & Pull Plates	(IVE) Ives	DCI, Trimco
Kickplates	(IVE) Ives	DCI, Trimco
Stops & Holders –	(IVE) Ives	DCI, Trimco
Overhead Stops	(GLY) Glynn-Johnson	ABH, Hager
Thresholds	(ZE) Zero	NGP, Reese
Seals & Bottoms	(ZE) Zero	NGP, Reese

2.2 HINGING METHODS

A. Note: drawings typically depict doors at 90 degrees, doors will actually swing to maximum allowable. Use wide-throw conventional or continuous hinges as needed up to 8 inches in width to allow door to stand parallel to wall for true 180-degree opening. Advise architect if 8-inch width is insufficient.

B. Conventional Hinges: Steel or stainless steel pins and concealed bearings. Hinge open widths minimum, but of sufficient throw to permit maximum door swing.

1. Three hinges per leaf to 7 foot, 6 inch height. Add one for each additional 30 inches in height, or any fraction thereof.
2. Extra heavy weight hinges on doors over 3 foot, 5 inches in width.
3. Extra-heavy weight hinges on doors with panic hardware or fire exit devices.
4. Out swinging exterior doors: non-ferrous with non-removable (NRP) pins.
5. Non-ferrous material exteriors and at doors subject to corrosive atmospheric conditions.
6. Provide shims and shimming instructions for proper door adjustment.

C. Continuous Hinges:

1. Geared-type aluminum at exteriors.

a. Heavy-duty, extra-bearing units for doors over 3 foot, 5 inches in width.
b. Heavy-duty, extra-bearing units for doors with panic hardware or fire exit devices.
c. Use wide-throw units where needed for maximum degree of swing, advise architect if commonly available hinges are insufficient.
d. Verify hinge type required; supply depending on door and frame being supplied in aluminum door and frame section. At no additional cost to LPS EXAMPLE (Kawneer 500 Wide Stile use Ives 112HD and EFCO use Ives 224HD.

2.3 LOCKSETS, LATCHSETS, DEADBOLTS:

A. Extra Heavy Duty Cylindrical Locks and Latches: as scheduled.

1. Chassis: cylindrical design, corrosion-resistant plated cold-rolled steel, through-bolted.
2. Locking Spindle: stainless steel, interlocking design.
3. Latch Retractors: forged steel. Balance of inner parts: corrosion-resistant plated steel, or stainless steel.
4. Backset: 2-3/4” typically, more or less as needed to accommodate frame, door or other hardware.
5. Lever Trim: accessible design, independent operation, spring-cage supported, minimum 2” clearance from lever mid-point to door face.
6. Electric operation: Manufacturer-installed continuous duty solenoid.
7. Strikes: 16 gage curved steel, bronze or brass with 1” deep box construction, lips of sufficient length to clear trim and protect clothing.
8. Lock Series and Design: Schlage ND series, “Rhodes” design.
9. Certifications:

a. ANSI A156.2, 1994, Series 4000, Grade 1.
b. UL listed for A label and lesser class single doors up to 4ft x 8ft.

10. Accepted substitutions: Schlage No Substitutions

2.4 EXIT DEVICES / PANIC HARDWARE

A. General features:

1. Independent lab-tested 1,000,000 cycles.
2. Push-through push-pad design. No exposed push-pad fasteners, no exposed cavities when operated. Return stroke fluid dampeners and rubber bottoming dampeners, plus anti-rattle devices.
3. End caps: impact-resistant, flush-mounted. No raised edges or lips to catch carts or other equipment.
4. No exposed screws to show through glass doors.
5. Non-handed basic device design with center case interchangeable with all functions, no extra parts required to effect change of function.
6. Releasable in normal operation with 15-lb. maximum operating force per UBC Standard 10-4, and with 32 lb. maximum pressure under 250-lb. load to the door.
7. Flush end cap design as opposed to typical “bottle-cap” design end cap.
8. Comply with CBC Section 1003.3.1.9.

B. Specific features:

1. Lever Trim: Breakaway type, forged brass or bronze escutcheon min .130” thickness, compression spring drive, match lockset lever design.
2. Inpact recessed devices: 1-1/4inch projection when push-pad is depressed. Sloped metal end caps to deflect carts, etc. No pinch points to catch skin between touchbar and door.
3. Electrically Operated Devices: Single manufacturer source for electric latch retraction devices, power transfers, power supplies.
4. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key.
5. Accepted substitutions: Von Duprin No Substitutions

2.5 CLOSERS

A. Surface Closers: [4011/4111]

1. Full rack-and-pinion type cylinder with removable non-ferrous cover and cast iron body. Double heat-treated pinion shaft, single piece forged piston, chrome-silicon steel spring.
2. ISO 2000 certified. Units stamped with date-of-manufacture code.
3. Independent lab-tested 10,000,000 cycles.
4. Non-sized and adjustable.
5. Plates, brackets and special templating when needed for interface with particular header, door and wall conditions and neighboring hardware.
6. Opening pressure: Exterior doors 8.5 lb., interior doors 5 lb., labeled fire doors 15 lb.
7. Separate adjusting valves for closing speed, latching speed and backcheck, fourth valve for delayed action where scheduled.
8. Extra-duty arms (EDA) at exterior doors scheduled with parallel arm units. EDA arms: rigid main and forearm, reinforced elbow.

9. Exterior door closers: tested to 100 hours of ASTM B117 salt spray test, furnish data on request.
10. Exterior doors do not require seasonal adjustments in temperatures from 120 degrees F to –30 degrees F, furnish data on request.
11. Non-flaming fluid, will not fuel door or floor covering fires.
12. Pressure Relief Valves (PRV): unsafe, not permitted.
13. Accepted substitutions: LCN No Substitutions

B. Low-Energy Door Operators: Comply with ANSI/BHMA 156.19 Electric power-open, hydraulically checked spring power closing. Modular construction. Finished metal cover. Field-adjustable opening force, opening speed, time-open, closing and latching speeds. Door reopens and timing cycle restores if system reactuated during closing cycle.

1. Self-contained low-voltage power supply, terminal strip and sequencing for incorporation of electric hardware with system operation.
2. Accepted substitutions: LCN No Substitutions

2.6 OTHER HARDWARE

A. Automatic Flush Bolts: Low operating force design, “LBR” type where scheduled.

B. Kick Plates: Four beveled edges, .050 inches minimum thickness, height and width as scheduled. Sheet-metal screws of bronze or stainless steel to match other hardware.

C. Door Stops: Provide stops to protect walls, casework or other hardware.

1. Unless otherwise noted in Hardware Sets, provide wall type with appropriate fasteners. Where wall type cannot be used, provide floor type. If neither can be used, provide overhead type.
2. Locate overhead stops for maximum possible opening. Consult with Owner for furniture locations. Minimum: 90deg stop / 95deg deadstop. Note degree of opening in submittal.

D. Through-bolts: Do not use. Coordinate with wood doors, ensure provision of proper blocking to support wood screws for mounting panic hardware and door closers. Coordinate with metal doors and frames, ensure provision of proper reinforcement to support machine screws for mounting panic hardware and door closers.

E. Silencers: Interior hollow metal frames, 3 for single doors, 4 for pairs of doors. Omit where adhesive mounted seal occurs. Leave no unfilled/uncovered pre-punched silencer holes.

2.7 FINISH

A. Generally BHMA 626 Satin Chromium.

1. Areas using BHMA 626 to have push-plates, pulls and protection plates of BHMA 630, Satin Stainless Steel, unless otherwise noted.

B. Door closers: factory powder coated to match other hardware, unless otherwise noted.

2.8 KEYING REQUIREMENTS

A. Key System: Schlage Primus or Everest Primus high-security utility-patented keyway where specified, interchangeable core where specified. Key blanks available only from factory-direct sources, not available from after-market keyblank manufacturers. Initiate and conduct meetings(s) with Owner to determine system keyway(s), keybow styles, structure. Furnish Owner's written approval of the system.

1. Primus match owners existing system.
2. Ship all cylinders direct to owner.
3. Supply all cylinders less keys O bitted.
4. Keying is by owner.

B. Key Cylinders: furnish 6-pin solid brass construction.

C. Permanent keys: use secured shipment direct from point of origination to Owner.

1. For estimate: 2 keys per cylinder round up to the nearest 100 delivered separate from the cylinders direct to owner.

PART 3. EXECUTION

3.1 INSTALLATION

A. Install hardware per manufacturer's instructions and recommendations. Do not install surface-mounted items until finishes have been completed on substrate. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate for proper installation and operation. Remove and reinstall or replace work deemed defective by Architect.

1. Gaskets: install jamb-applied gaskets before closers, overhead stops, rim strikes, etc; fasten hardware over and through these seals. Install sweeps across bottoms of doors before astragals, cope sweeps around bottom pivots, trim astragals to tops of sweeps.
2. When hardware is to be attached to existing metal surface and insufficient reinforcement exists, use RivNuts, NutSerts or similar anchoring device for screws.
3. Use manufacturers' fasteners furnished with hardware items, or submit Request for Substitution with Architect.
4. Replace fasteners damaged by power-driven tools.

B. Locate floor stops no more that 4 inches from walls and not within paths of travel. See paragraph 2.2 regarding hinge widths, door should be well clear of point of wall reveal. Point of door contact no closer to the hinge edge than half the door width. Where situation is questionable or difficult, contact Architect for direction.

C. Locate overhead stops for minimum 90 degrees and maximum allowable degree of swing.

D. Drill pilot holes for fasteners in wood doors and/or frames.

E. Lubricate and adjust existing hardware scheduled to remain. Carefully remove and give to Owner items not scheduled for reuse.

3.2 ADJUSTING

A. Adjust and check for proper operation and function. Replace units, which cannot be adjusted to operate freely and smoothly.

1. Hardware damaged by improper installation or adjustment methods to be repaired or replaced to Owner's satisfaction.
2. Adjust doors to fully latch with no more than 1 pound of pressure.
3. Adjust delayed-action closers on fire-rated doors to fully close from fully-opened position in no more than 10 seconds.

B. Inspection: Use hardware supplier. Include supplier's report with closeout documents.

C. Follow-up inspection: Installer to provide letter of agreement to Owner that approximately 6 months after substantial completion, installer will visit Project with representatives of the manufacturers of the locking devices and door closers to accomplish following:

1. Re-adjust hardware.
2. Evaluate maintenance procedures and recommend changes or additions, and instruct Owner's personnel.
3. Identify items that have deteriorated or failed.
4. Submit written report identifying problems and likely future problems.

3.3 DEMONSTRATION

A. Demonstrate electrical, electronic and pneumatic hardware systems, including adjustment and maintenance procedures.

3.4 PROTECTION/CLEANING

A. Cover installed hardware, protect from paint, cleaning agents, weathering, carts/barrows, etc. Remove covering materials and clean hardware just prior to substantial completion.

B. Clean adjacent wall, frame and door surfaces soiled from installation/reinstallation process.

3.5 SCHEDULE OF FINISH HARDWARE

A. See door schedule in drawings for hardware set assignments.

B. Manufacturers and their abbreviations used in this schedule:

1. GLY Glynn-Johnson Hardware
2. IVE H. B. Ives
3. LCN LCN Closers
4. SCH Schlage Lock Company
5. SCE Schlage Lock Electronics
6. VON Von Duprin
7. ZE Zero

HW SET: 01
DOOR NUMBER:
1
EACH TO HAVE:

2	EA	FILLER PLATE	EPT-1	P	DON
1	EA	CONTINUOUS HINGE	112XY EPT	628	IVE
1	EA	PANIC HARDWARE	99NL 990NL	626	VON
1	EA	RIM CYLINDER	20-757	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
1	EA	BLADE STOP SPACER	4110-61	689	LCN
1	EA	THRESHOLD	8655A	AL	ZER
1	EA	SWEEP	8197AA	AL	ZER
1	EA	DRIP CAP	142AA	AL	ZER

Provide rough-in for future card reader and door operator, perimeter seal provided by door manufacture.

HW SET: 02
DOOR NUMBER:
4 **7**
EACH TO HAVE:

2	EA	FILLER PLATE	EPT-1	P	DON
1	EA	CONTINUOUS HINGE	112XY EPT	628	IVE
1	EA	SAFE SCHOOL LOCK	ND93LD RHO	626	SCH
2	EA	ND SERIES CYLINDER	20-765	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
1	EA	BLADE STOP SPACER	4110-61	689	LCN
1	EA	THRESHOLD	8655A	AL	ZER
1	EA	SWEEP	8197AA	AL	ZER
1	EA	DRIP CAP	142AA	AL	ZER
1	EA	LATCH GUARD	LG12	630	IVE

Provide rough-in for future card reader and door operator, perimeter seal provided by door manufacture.

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HW SET: 03
DOOR NUMBER:
5
EACH TO HAVE:

2	EA	FILLER PLATE	EPT-1	P	DON
1	EA	CONTINUOUS HINGE	112XY EPT	628	IVE
1	EA	INDICATOR DEADBOLT	B571	626	SCH
1	EA	SAFE SCHOOL LOCK	ND93LD RHO	626	SCH
2	EA	ND SERIES CYLINDER	20-765	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
1	EA	BLADE STOP SPACER	4110-61	689	LCN
1	EA	THRESHOLD	8655A	AL	ZER
1	EA	SWEEP	8197AA	AL	ZER
1	EA	DRIP CAP	142AA	AL	ZER
1	EA	LATCH GUARD	LG12	630	IVE

Provide rough-in for future card reader and door operator, perimeter seal provided by door manufacture.

HW SET: 04
DOOR NUMBER:
181B 181G 182B 182G
EACH TO HAVE:

1	EA	CONTINUOUS HINGE	112XY	628	IVE
1	EA	PUBLIC TOILET DEADBOLT	LC4878	630	SAR
2	EA	MORTISE CYLINDER	20-763 CAM AS REQUIRED	626	SCH
1	EA	PULL/PLATE	8303 0 4 X 16	630	IVE
1	EA	PUSH PLATE	8200 4 X 16	630	IVE
1	EA	SURFACE CLOSER	4111 SHCUSH	689	LCN
1	EA	CUSH SHOE SUPPORT	4110-30	689	LCN
1	EA	BLADE STOP SPACER	4110-61	689	LCN
1	EA	THRESHOLD	8655A	AL	ZER
1	EA	SWEEP	8197AA	AL	ZER

Perimeter seal provided by door manufacture.

HW SET: 05
DOOR NUMBER:
181P 182P
EACH TO HAVE:

1	EA	CONTINUOUS HINGE	112XY	628	IVE
1	EA	STOREROOM LOCK	ND96LD RHO	626	SCH
1	EA	ND SERIES CYLINDER	20-765	626	SCH
1	EA	OVERHEAD STOP	90S SHIM 2	630	GLY
1	EA	THRESHOLD	8655A	AL	ZER
1	EA	SWEEP	8197AA	AL	ZER

Perimeter seal provided by door manufacture.

HW SET: 06
DOOR NUMBER:
100
EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	ND94LD RHO	626	SCH
1	EA	ND SERIES CYLINDER	20-765	626	SCH
1	EA	SURFACE CLOSER	4011 REG	689	LCN
1	EA	KICK PLATE	8402 10" X 2" LDW CS B4E	630	IVE
1	EA	WALL STOP	WS407CCV	630	IVE
1	EA	SMOKE SEAL	488S BK	BK	ZER

HW SET: 07
DOOR NUMBER:
100D
EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND96LD RHO	626	SCH
1	EA	ND SERIES CYLINDER	20-765	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW CS B4E	630	IVE

HW SET: 08
DOOR NUMBER:
100P
EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND96LD RHO	626	SCH
1	EA	ND SERIES CYLINDER	20-765	626	SCH
1	EA	OVERHEAD STOP	90S	630	GLY

HW SET: 09
DOOR NUMBER:
100R **100S** **101R**
EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	ND40S RHO IS-LOC OS-OCC	626	SCH
1	EA	KICK PLATE	8400 10" X 2" LDW CS B4E	630	IVE
1	EA	MOP PLATE	8400 4" X 1" LDW CS B4E	630	IVE
1	EA	WALL STOP	WS407CCV	630	IVE

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HW SET: 10
DOOR NUMBER:
102A
EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND96LD RHO	626	SCH
1	EA	ND SERIES CYLINDER	20-765	626	SCH
1	EA	OVERHEAD STOP/HOLDER	90H	630	GLY

HW SET: 11
DOOR NUMBER:
180A
EACH TO HAVE:

3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND96LD RHO	626	SCH
1	EA	ND SERIES CYLINDER	20-765	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW CS B4E	630	IVE
1	EA	SMOKE SEAL	488S BK	BK	ZER

HW SET: 12
DOOR NUMBER:
180H
EACH TO HAVE:

4	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND96LD RHO	626	SCH
1	EA	ND SERIES CYLINDER	20-765	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW CS B4E	630	IVE

HW SET: 13
DOOR NUMBER:
180M
EACH TO HAVE:

4	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND96LD RHO	626	SCH
1	EA	ND SERIES CYLINDER	20-765	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW CS B4E	630	IVE
1	EA	SMOKE SEAL	488S BK	BK	ZER

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HW SET: 14
DOOR NUMBER:
ST-01.1 **ST-02.1**
EACH TO HAVE:

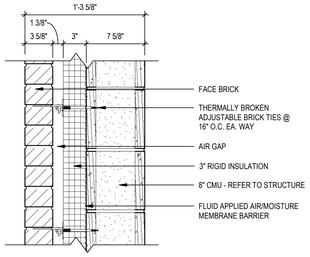
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PANIC HARDWARE	99L 996L F	626	VON
1	EA	RIM CYLINDER	20-757	626	SCH
1	EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW CS B4E	630	IVE
1	EA	SMOKE SEAL	488S BK	BK	ZER

HW SET: 15 ACCESS PANEL/COILING OVERHEAD CYLINDERS
DOOR NUMBER:
AP1 **AP2** **AP3** **AP4** **AP5** **AP6**
AP7 **AP8** **AP9** **OV1** **OV2** **OV3**
OV4 **OV5**
EACH TO HAVE:

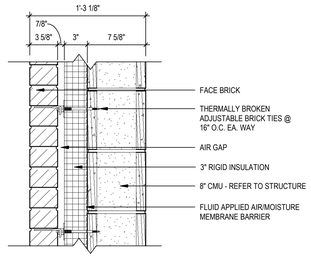
1	EA	MORTISE CYLINDER	20-001 114 C KEYWAY CAM AS REQUIRED	626	SCH

END OF SECTION 08 71 00A

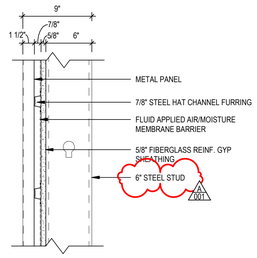
EXTERIOR WALL ASSEMBLIES



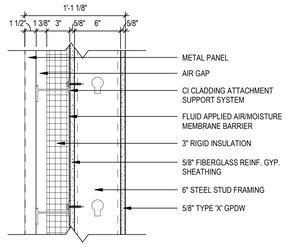
X1 CMU STRUCTURE
MASONRY CLADDING - RIGID INSULATION



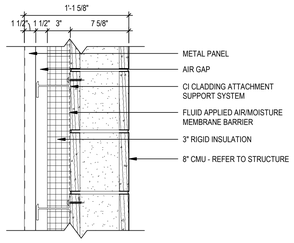
X2 CMU STRUCTURE
MASONRY CLADDING - RIGID INSULATION



X3 STEEL STUD FRAME STRUCTURE
METAL PANEL CLADDING

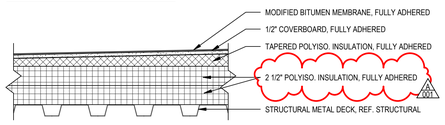


X4 STEEL STUD FRAME STRUCTURE
METAL PANEL - RIGID INSULATION

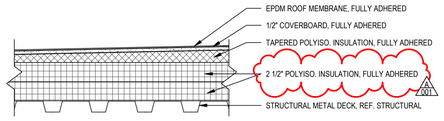


X5 CMU STRUCTURE
METAL PANEL - RIGID INSULATION

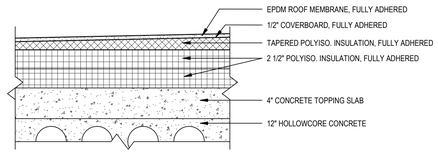
ROOF ASSEMBLIES



XR1 MODIFIED BITUMEN MEMBRANE - METAL DECKING
TAPERED INSULATION - RIGID INSULATION

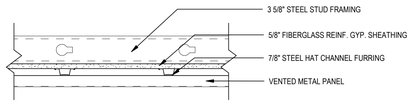


XR2 EPDM - METAL DECKING
TAPERED INSULATION - RIGID INSULATION



XR3 EPDM - CONCRETE
TAPERED INSULATION - RIGID INSULATION

SOFFIT ASSEMBLIES



XS1 METAL FRAMED STRUCTURE
METAL PANEL CLADDING

GENERAL EXTERIOR ASSEMBLY NOTES

1. REFER TO STRUCTURAL DRAWINGS FOR SUBSTITUTION OF GYPSUM BOARD SHEATHING FOR PLYWOOD SHEATHING FOR STRUCTURAL REQUIREMENTS.

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ISSUED	10/04/2024	Construction Documents
A - 001	10/11/2024	Addendum 001

Per Nebraska State Statute 81-3436, section 6.5.3
Required Information on Technical Submissions
Clark & Enersen, Inc.
Architecture Contact: Tim Ripp
Engineering Contact: TJ Schirmer
1010 Lincoln Mall, Suite 200
Lincoln, NE 68508
COA No. CA0029AE

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LPS Southeast Activities Complex

11100 S. 70th St.
Lincoln, NE 68516

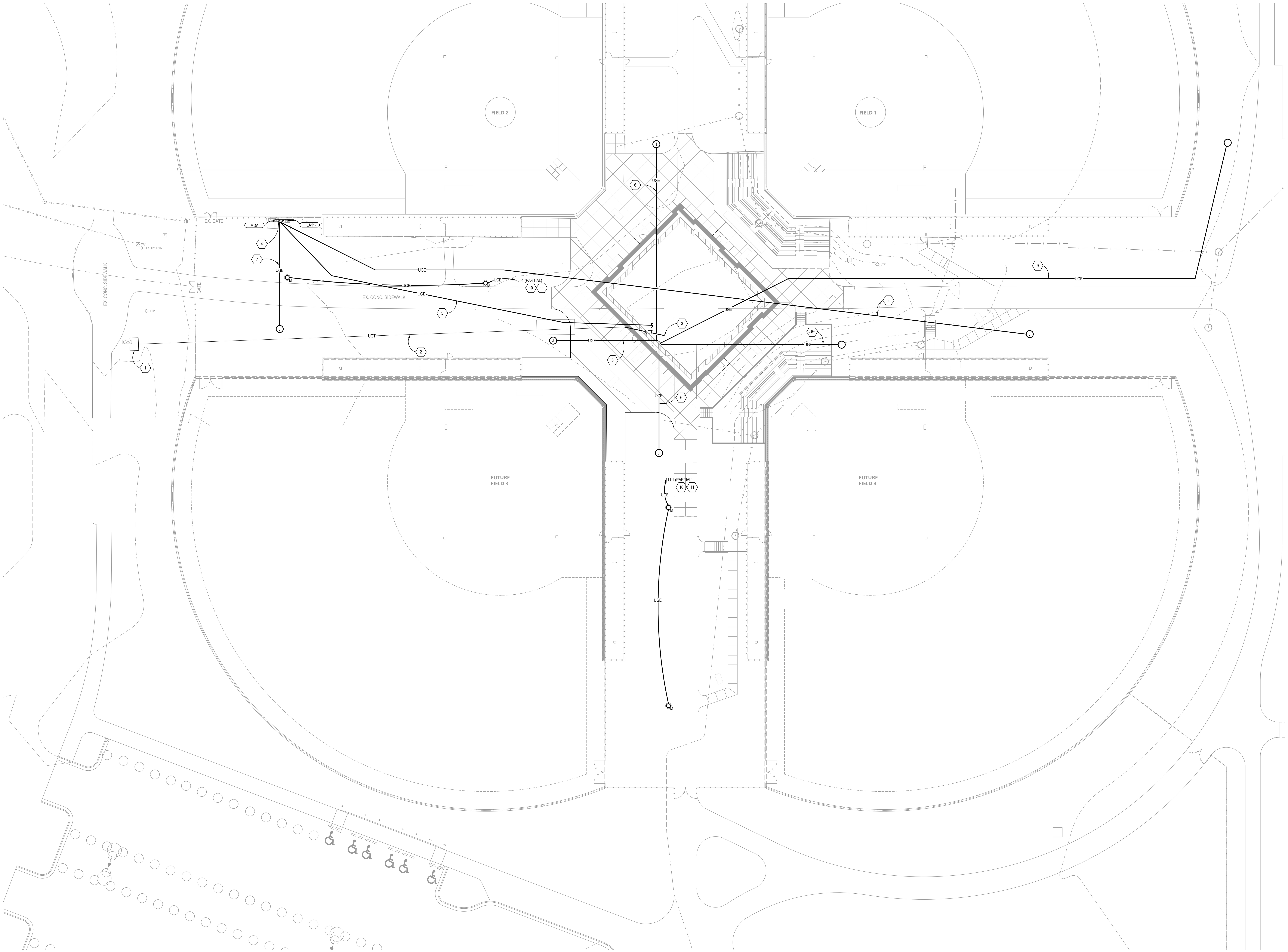
CE No. 097-045-19
LPS BID #11090

October 4, 2024

Exterior Assemblies

A0.02

Plot Time Stamp: 10/8/2024 1:38:01 PM
File Location/Name: Autodesk Docs://097-045-19 LPS HS(NWHS & SEHS)/097045-SEAC Activities Fieldhouse-A23.rvt



ELECTRICAL SITE UTILITIES PLAN

SCALE: 1" = 20'-0"

KEY NOTE	DESCRIPTION
1	EXISTING FIBER OPTIC JUNCTION BOX INSTALLED IN THE APPROXIMATE LOCATION INDICATED. CONTRACTOR SHALL ROUTE NEW 12 STRAND FIBER FROM THIS LOCATION INTO THE NEW ACTIVITIES BUILDING ELEC/TELECOM 100D ROOM, UTILIZING EXISTING 1" CONDUIT DENOTED BY PLAN NOTE NUMBER 2.
2	EXISTING 1" CONDUIT ROUTED BELOW GRADE FROM THE EXISTING FIBER OPTIC JUNCTION BOX TO THE APPROXIMATE LOCATION INDICATED. REMOVE CONDUIT CAP AND EXTEND CONDUIT INTO THE ACTIVITIES BUILDING ELEC/TELECOM 100D ROOM.
3	APPROXIMATE FIBER CONDUIT STUB-UP LOCATION WITHIN THE BUILDING. REFER TO THE TELECOM PLANS FOR EXACT LOCATION AND ADDITIONAL INFORMATION.
4	EXISTING DISTRIBUTION PANEL 'MDA'. SEE THE ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
5	ELECTRICAL FEEDER TO BUILDING. SEE THE ONE LINE DIAGRAM AND THE FIRST FLOOR POWER PLAN - (PHASE 1) FOR ADDITIONAL INFORMATION.

A 001

KEY NOTE	DESCRIPTION
6	2-1" CONDUITS FROM ELECTRICAL ROOM TO THE POINT INDICATED. TERMINATE INTO A IN-GRADE 12" X 12" QUAZITE BOX. INSTALL TRACER WIRE IN CONDUIT. MARK LOCATION ON AS-BUILT DRAWINGS. INSTALL TRACER WIRE IN CONDUITS.
7	ROUTE 1-3" CONDUITS FROM DISTRIBUTION PANEL 'MDA'. TERMINATE INTO A IN-GRADE 12" X 12" QUAZITE BOX. INSTALL TRACER WIRE IN CONDUIT. MARK LOCATION ON AS-BUILT DRAWINGS. INSTALL TRACER WIRE IN CONDUITS.
8	ROUTE 3-3" CONDUITS FROM DISTRIBUTION PANEL 'MDA' UNDER BUILDING TO THIS POINT. TERMINATE INTO A IN-GRADE 12" X 12" QUAZITE BOX. INSTALL TRACER WIRE IN CONDUIT. MARK LOCATION ON AS-BUILT DRAWINGS. INSTALL TRACER WIRE IN CONDUITS.
9	1-1" CONDUIT FROM ELECTRICAL ROOM TO THE POINT INDICATED FOR FUTURE FLAG POLE LIGHTING. TERMINATE INTO A IN-GRADE 12" X 12" QUAZITE BOX. INSTALL TRACER WIRE IN CONDUIT. MARK LOCATION ON AS-BUILT DRAWINGS. INSTALL TRACER WIRE IN CONDUITS.

KEY NOTE	DESCRIPTION
10	ROUTE LIGHTING CIRCUIT THROUGH THE 1P/20 AMP CIRCUIT BREAKER INDICATED IN THE EMERGENCY LIGHTING INVERTER AND THE LIGHTING CONTACTOR INDICATED SO THAT UNDER NORMAL POWER CONDITIONS, THE LIGHTING CIRCUIT OPERATES AS PROGRAMMED THROUGH THE BMS CONTROLLED LIGHTING CONTACTOR, AND THEN UPON POWER LOSS, THE LIGHTING CIRCUIT TURNS ON TO 100% OUTPUT BACKED UP BY THE EMERGENCY LIGHTING INVERTER BATTERY BACK-UP. SEE PLAN NOTE NUMBER 8 ON THE FIRST FLOOR LIGHTING PLAN (PHASE 1) FOR ADDITIONAL INFORMATION.
11	ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR 'C1' WHICH WILL BE CONTROLLED VIA THE BMS. SEE THE EXTERIOR LIGHTING CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.

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A - 001 10/11/2024 ADDENDUM #001

Per Nebraska State Statute 81-3436, section 6.5.3
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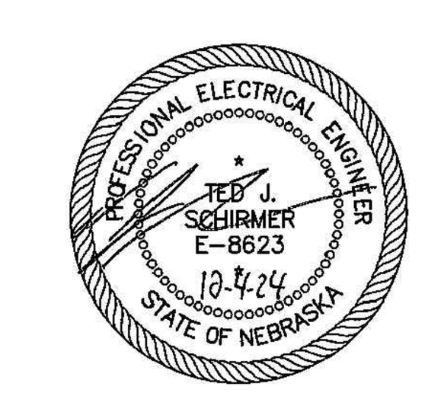
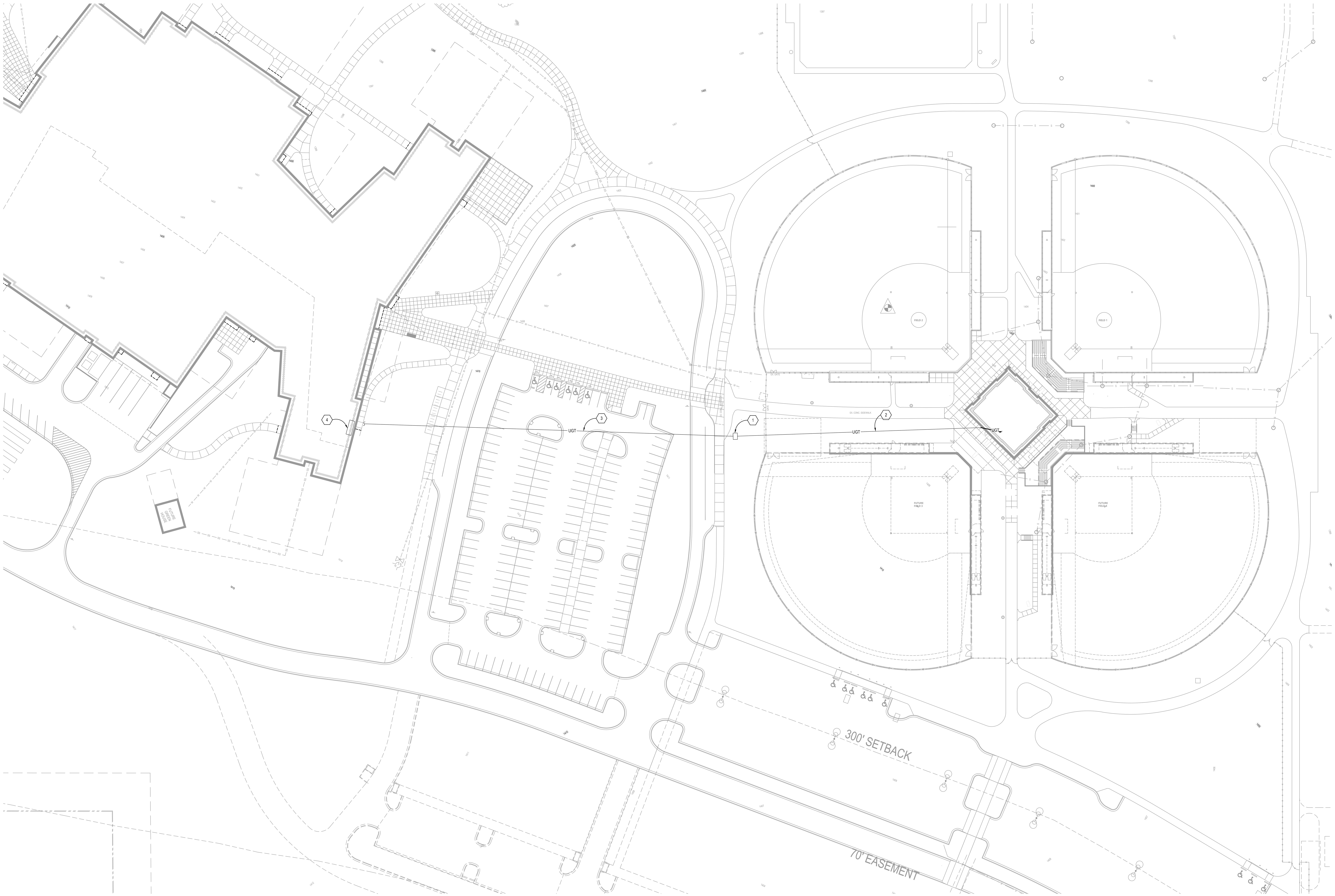
October 4, 2024



Electrical Site Utilities Plan

E0.01



OVERALL ELECTRICAL SITE UTILITIES PLAN

SCALE: 1" = 40'-0"

OVERALL ELECTRICAL SITE UTILITIES PLAN	
KEY NOTE	DESCRIPTION
1	APPROXIMATE LOCATION OF EXISTING QUAZITE BOX.
2	CONDUIT FOR FIBER OPTIC CABLE TO NEW BUILDING. SEE THE ELECTRICAL SITE UTILITIES PLAN FOR ADDITIONAL INFORMATION.
3	EXISTING SPARE 1" CONDUIT TO ABOVE THE FIRST FLOOR CEILING IN THE HIGH SCHOOL BUILDING. USE CONDUIT TO ROUTE FIBER OPTIC CABLE FOR NEW BUILDING. SEE THE TELECOMMUNICATIONS RISER FOR ADDITIONAL INFORMATION..
4	APPROXIMATE LOCATION OF 'IDF-B' LOCATED ON THE SECOND FLOOR OF THE EXISTING HIGH SCHOOL. ROUTE CABLING THROUGH EXISTING EZ-PATH FROM FIRST FLOOR TO SECOND FLOOR. COORDINATE PATHWAY WITH OWNER PRIOR TO INSTALLATION.

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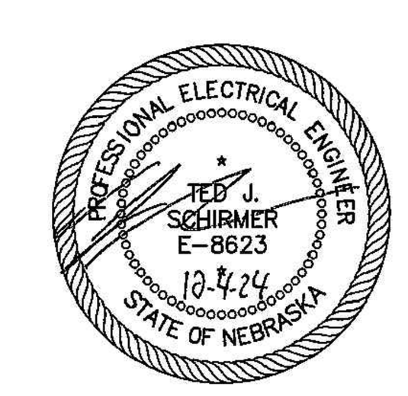
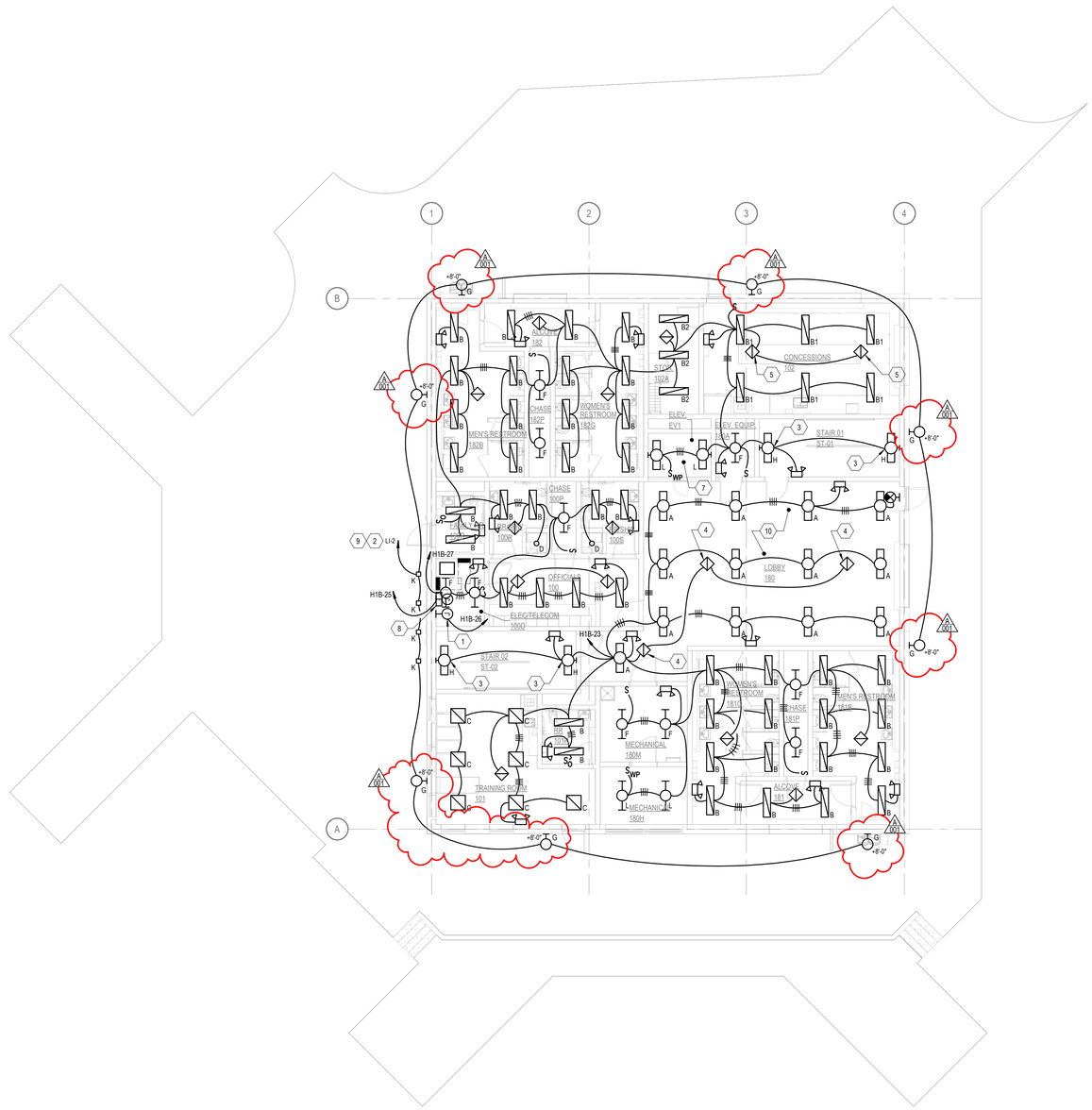


Overall
Electrical Site
Utilities Plan

E0.02



FIRST FLOOR LIGHTING PLAN (PHASE 1)

Plan North

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

GENERAL LIGHTING NOTES:

1. CONNECT ALL EMERGENCY OR EXIT LIGHTS TO THE UNSWITCHED HOT CONDUCTOR OF THE CIRCUIT INDICATED.
2. COORDINATE LIGHT FIXTURE LAYOUT AND MOUNTING HEIGHT IN MECHANICAL SPACES WITH THE MECHANICAL CONTRACTOR.
3. IN ROOMS WITH OCCUPANCY SENSORS, SENSORS SHALL BE SET TO OPERATE AS AUTO ON/AUTO OFF, UNLESS SPECIFICALLY NOTED OTHERWISE.

LIGHTING PLAN NOTES

KEYNOTE	DESCRIPTION
1	CONTACTOR 'C1': SEE THE EXTERIOR LIGHTING CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.
2	ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR 'C1' WHICH WILL BE CONTROLLED VIA THE BMS. SEE THE EXTERIOR LIGHTING CONTROL DIAGRAM FOR ADDITIONAL INFORMATION.
3	LIGHT FIXTURE PROVIDED WITH INTEGRAL OCCUPANCY SENSOR.
4	CONNECT OCCUPANCY SENSORS TOGETHER IN ROOMS WITH MULTIPLE OCCUPANCY SENSORS AS NECESSARY TO TURN ALL LIGHTS ON UPON ACTIVATION OF ANY SENSOR.
5	OCCUPANCY SENSORS IN THIS SPACE SHALL BE WIRED AND SET TO ACT AS VACANCY SENSORS. LIGHTS SHALL BE SHUT OFF UPON ALL SENSORS NOT SENSING MOTION FOR 15 MINUTES.
7	LIGHT FIXTURES IN THIS AREA TO BE MOUNTED AT 8'-0" ABOVE FINISH FLOOR ELEVATION IN PHASE 1, AND THEN AS PART OF PHASE 2, THE FIXTURES AND SWITCH SHALL BE RELOCATED TO THE ELEVATOR PIT.
8	LIGHTING INVERTER 'LI', ISOLITE CATALOG NUMBER: E3X-750-C4-SD, OR ENGINEER APPROVED EQUAL. LIGHTING INVERTER SHALL BE PROVIDED WITH THE NUMBER OF 1P/20 AMP CIRCUIT BREAKERS AS INDICATED FOR OUTPUT TO EMERGENCY EGRESS LIGHTING. TWO OUTPUT CIRCUITS ARE FOR FUTURE USE. INVERTER SHALL ALSO BE PROVIDED WITH INPUT TRANSIENT VOLTAGE SUPPRESSOR OPTION. PROVIDE INPUT 277V CIRCUIT AS INDICATED. CONTRACTOR SHALL PROVIDE ALL WIRING AND CONNECTIONS FOR A COMPLETE AND FUNCTIONAL INSTALLATION. CONTRACTOR SHALL INCLUDE INVERTER START-UP, PROGRAMMING AND OWNER TRAINING IN THEIR BID.
9	ROUTE LIGHTING CIRCUIT THROUGH THE 1P/20 AMP CIRCUIT BREAKER INDICATED IN THE EMERGENCY LIGHTING INVERTER AND THE LIGHTING CONTACTOR INDICATED SO THAT UNDER NORMAL POWER CONDITIONS, THE LIGHTING CIRCUIT OPERATES AS PROGRAMMED THROUGH THE BMS CONTROLLED LIGHTING CONTACTOR, AND THEN UPON POWER LOSS, THE LIGHTING CIRCUIT TURNS ON TO 100% OUTPUT BACKED UP BY THE EMERGENCY LIGHTING INVERTER BATTERY BACK-UP. SEE PLAN NOTE NUMBER 8 ON THE FIRST FLOOR LIGHTING PLAN (PHASE 1) FOR ADDITIONAL INFORMATION.
10	ALL LIGHT FIXTURES IN THIS AREA SHALL BE SURFACE MOUNTED TO THE BOTTOM OF ROOF STRUCTURE.

TICK MARKS DO NOT IDENTIFY 0-10 VOLT DIMMING CONDUCTORS. WHERE DIMMING IS INDICATED, CONTRACTOR SHALL PROVIDE NECESSARY 0-10 VOLT DIMMING CONDUCTORS COLORED PER CODE.

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LPS Bid #11090

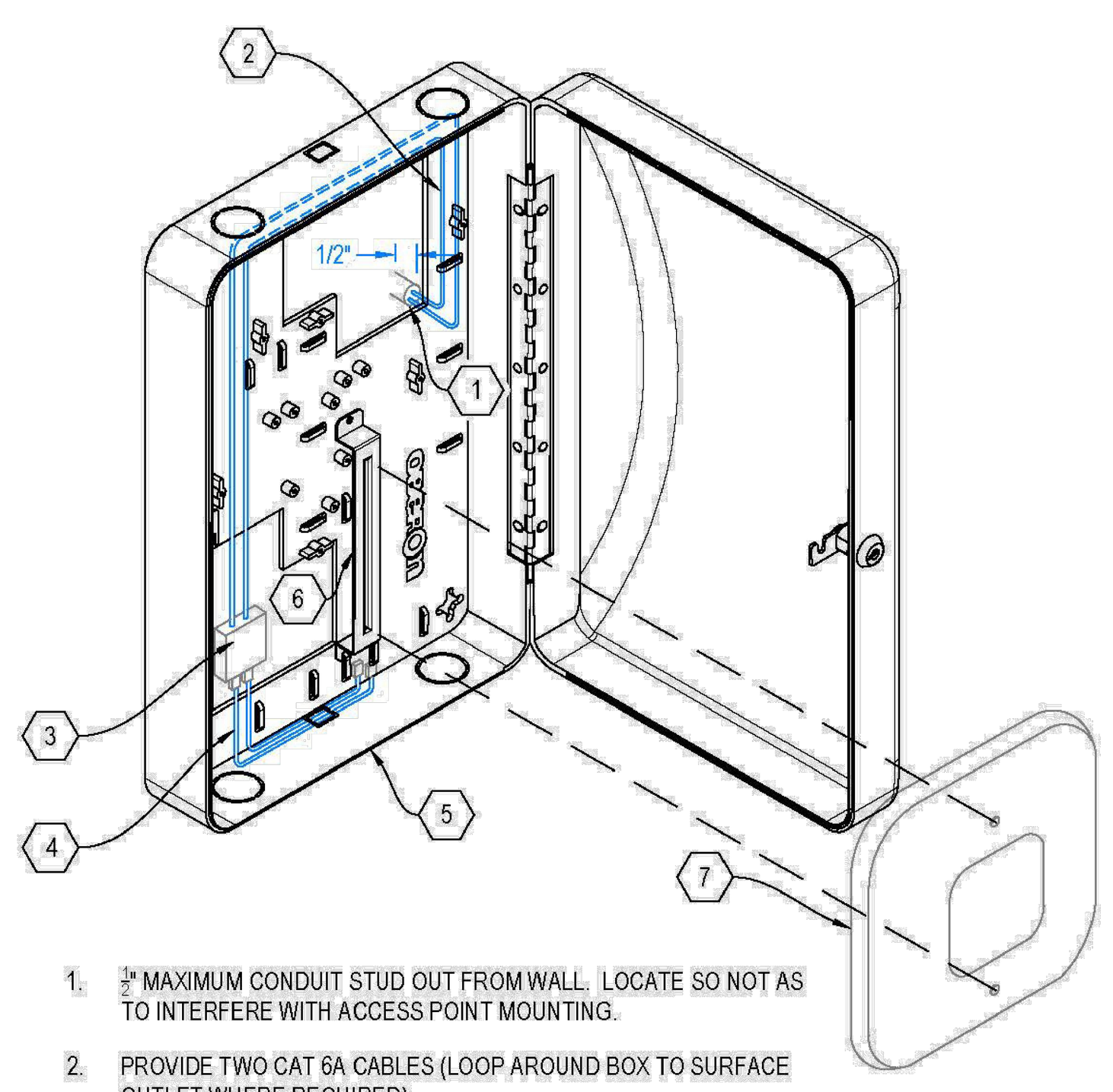
October 4, 2024

PROFESSIONAL ELECTRICAL ENGINEER
TJ R. SCHIRMER
E-8623
10-4-24
STATE OF NEBRASKA

First Floor Lighting Plan (Phase 1)

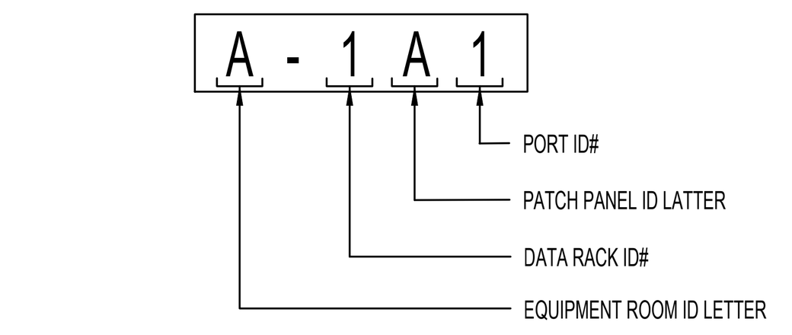
E1.10

Plot Time Stamp: 10/9/2024 3:46:23 PM
File Location/Name: Autodesk Docs://097-045-19 LPS HS(NWHS & SEHS)/097045-SEAC Activities Fieldhouse-E23.rvt



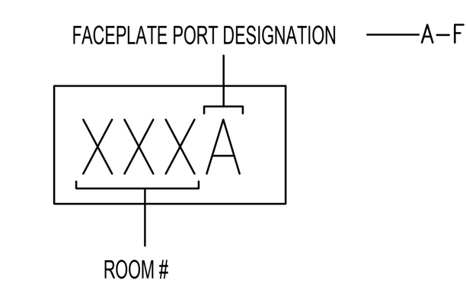
1. 1/2" MAXIMUM CONDUIT STUD OUT FROM WALL. LOCATE SO NOT AS TO INTERFERE WITH ACCESS POINT MOUNTING.
2. PROVIDE TWO CAT 6A CABLES (LOOP AROUND BOX TO SURFACE OUTLET WHERE REQUIRED).
3. 2-PORT CAT 6A SURFACE OUTLET BOX. SEE DG 27 05 50 DETAIL A.
4. PROVIDE TWO CAT 6A, 2' LONG PATCH CORDS.
5. OBERON MODEL 1016-00 WIRELESS ACCESS POINT BOX. KEY TO LPS STANDARD LOCK.
6. T-BAR BRACKET INCLUDED WITH ACCESS POINT BOX. POP-RIVET TO BOX AT THIS LOCATION. COORDINATE WITH LPS ELECTRONICS.
7. ACCESS POINT & MOUNTING KIT BY LPS.

1 WIRELESS ACCESS POINT (WAP) ENCLOSURE DETAIL
NO SCALE

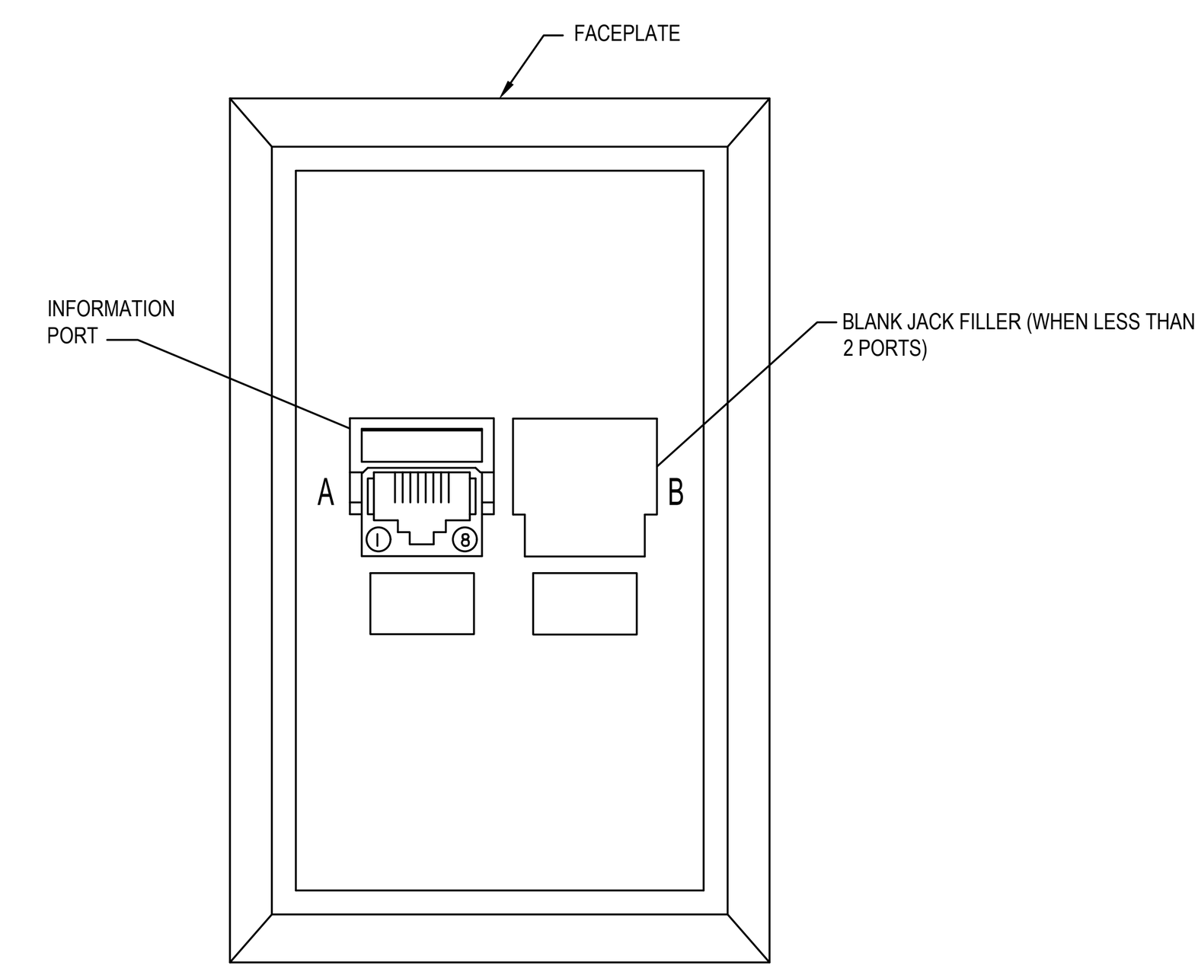


NOTE: LABELING SHALL USE FINAL ROOM SIGNAGE LETTERS WHERE DIFFERENT THAN DRAWING ROOM LETTERS.

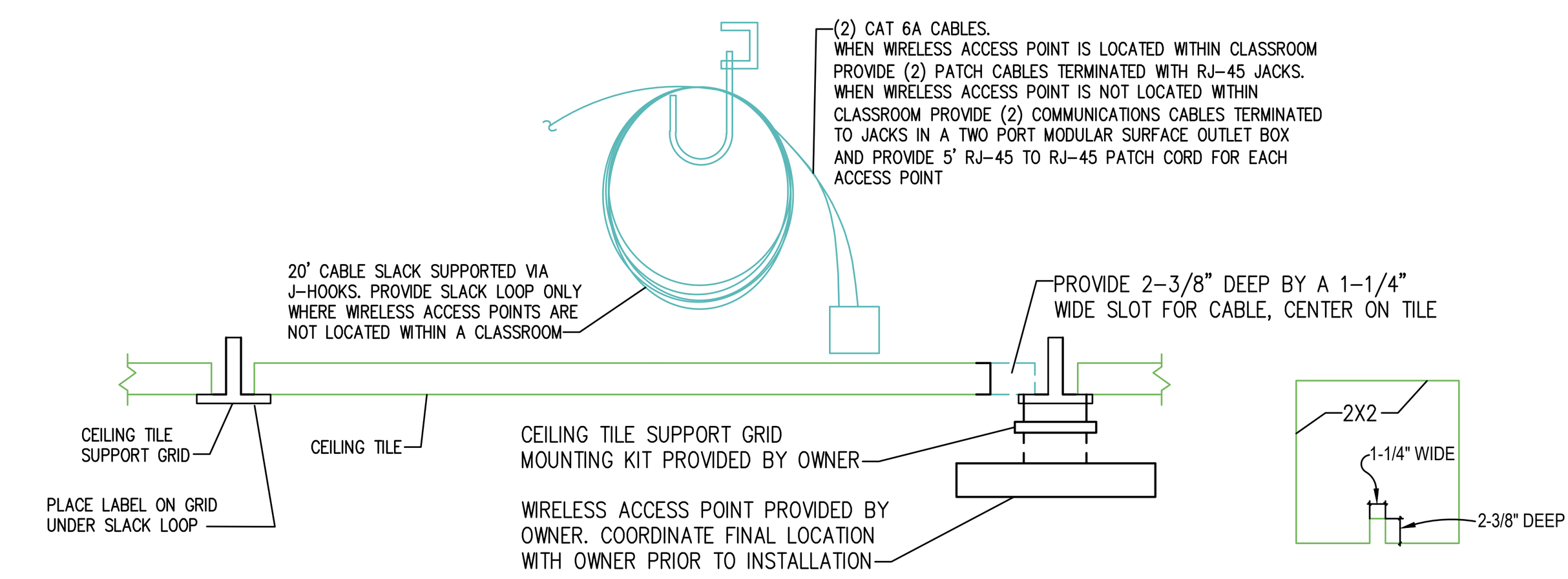
2 OUTLET FACEPLTE LABELING DETAIL
NO SCALE



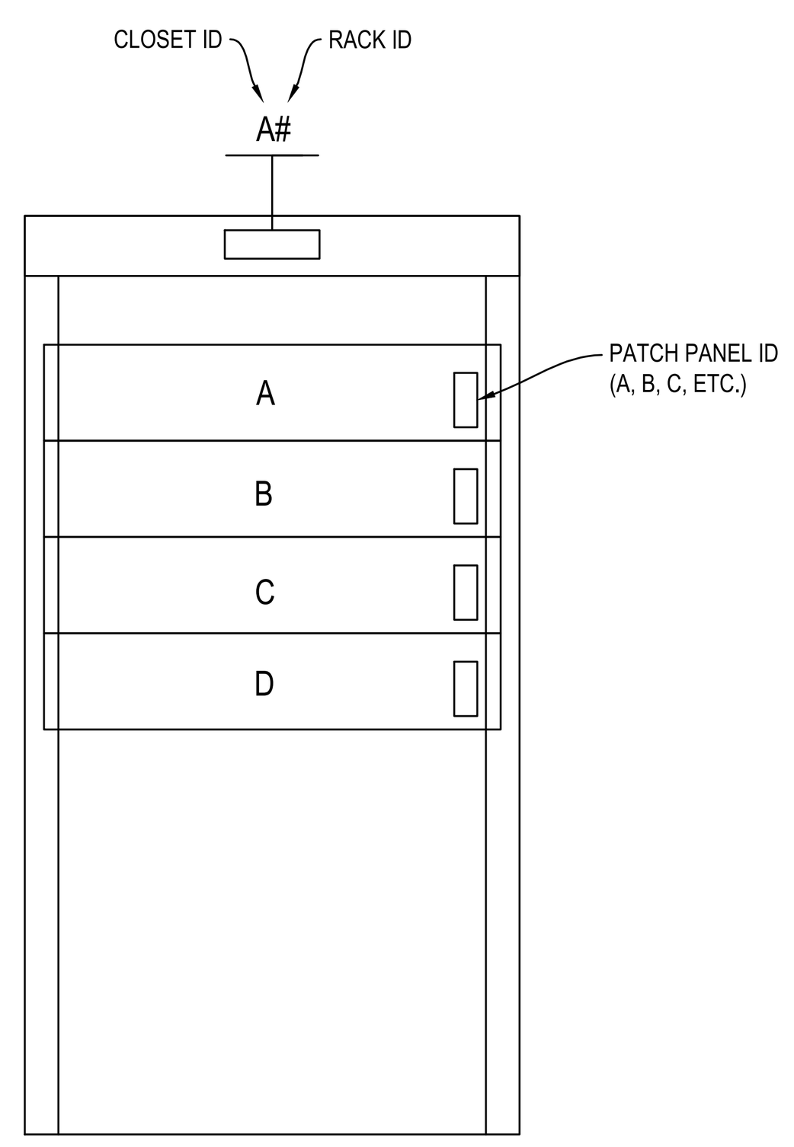
3 LABELING DETAIL
NO SCALE



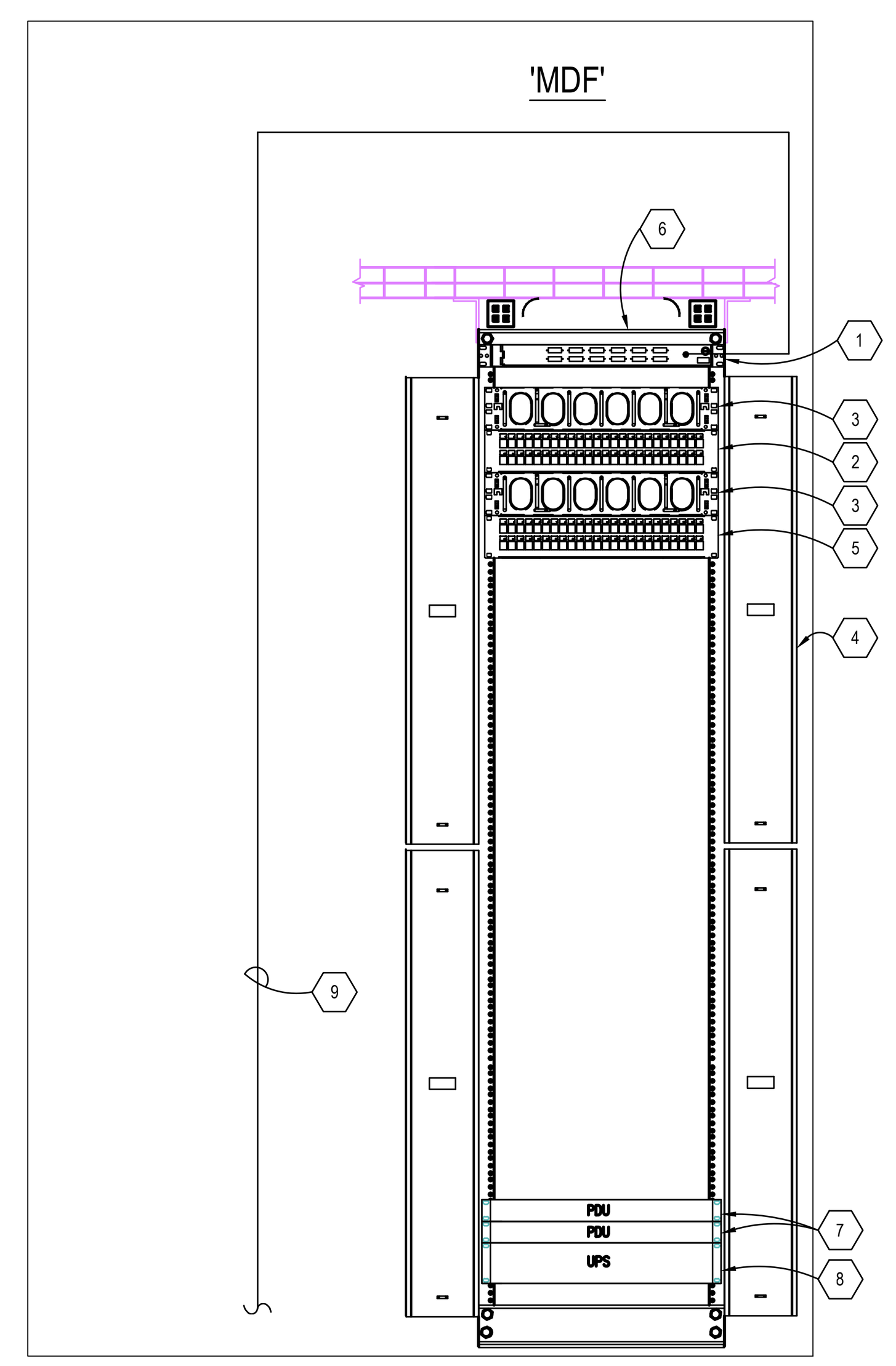
4 ONE & TWO PORT FACEPLATE DETAIL
NO SCALE



5 CEILING MOUNT WIRELESS ACCESS POINT (WAP) ROUGH-IN DETAIL
NO SCALE



6 RACK LABELING DETAIL
NO SCALE



FRONT VIEW

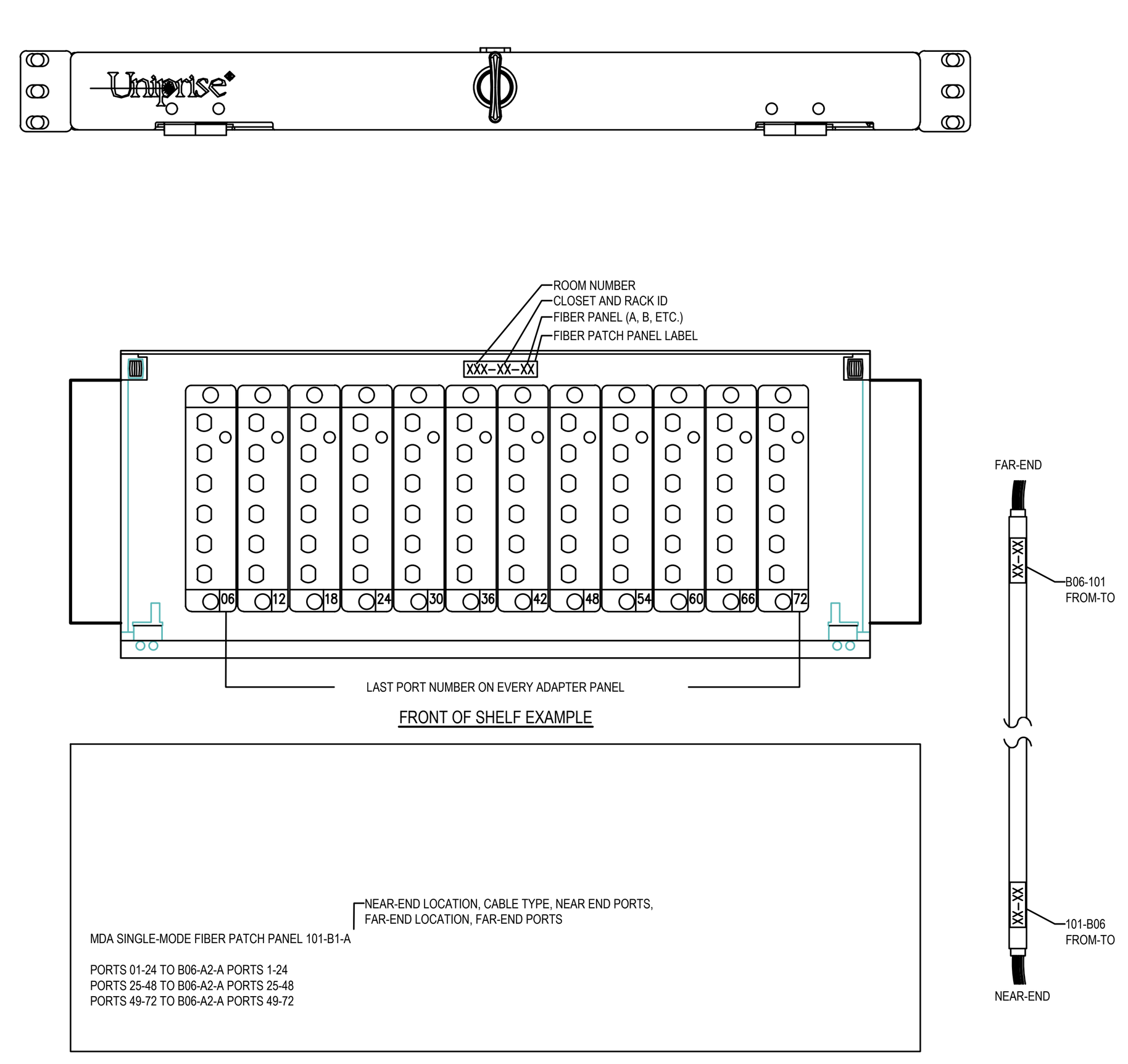
ELEC/DATA ROOM 100D ('MDF') RISER
NO SCALE

ELEC/DATA ROOM 100D ('MDF') RISER NOTES:

1. FIBER OPTIC PATCH PANEL FOR TERMINATION OF THE ONE 12 STRAND THAT IS BEING INSTALLED BETWEEN THIS BUILDING AND THE HIGH SCHOOL. LEAVE ONE "U" BETWEEN THE FIBER AND COPPER PATCH PANEL. SEE THE SITE PLANS AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ONE 48 PORT PATCH PANEL FOR TERMINATION OF THE HORIZONTAL CATEGORY 6A WORK AREA CABLING BEING ROUTED TO THIS RACK. SEE THE TELECOMMUNICATIONS PLANS, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. HORIZONTAL WIRE MANAGEMENT, ONE FOR EVERY PATCH PANEL INSTALLED. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. VERTICAL WIRE MANAGEMENT. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. ONE 48 PORT PATCH PANEL FOR TERMINATION OF THE HORIZONTAL CATEGORY 6 WORK AREA CABLING BEING ROUTED TO THIS RACK. SEE THE TELECOMMUNICATIONS PLANS, DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. FLOOR MOUNTED RELAY RACK WITH CABLE TRAY AND POWER ABOVE THE RACK. SEE THE TELECOMMUNICATION PLANS, DETAILS AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE LOCATION, REQUIRED WORK AND RACK LAYOUT WITH THE OWNER.
7. PROVIDE TWO POWER STRIPS AT A LOCATION IN EACH RACK DIRECTED BY LPS. SEE THE DETAILS FOR ADDITIONAL INFORMATION.
8. UPS PROVIDED AND INSTALLED BY LPS. SEE THE DETAILS FOR ADDITIONAL INFORMATION.

A 001

9. 12 STRAND MULTIMODE OM4 FIBER OPTIC CABLE BETWEEN THIS BUILDING AND THE HIGH SCHOOL 'IDF-B'. ROUTE CABLE TO EXISTING PATCH PANEL IN 'IDF-B' AND TERMINATE. COORDINATE TERMINATION WITH THE OWNER. SEE THE SITE PLANS, THE FIRST FLOOR FIRE ALARM, SECURITY & TELECOM PLAN (PHASE 1) AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



7 FIBER SHELF AND CABLE LABELING
NO SCALE

Plot Time Stamp: 10 / 08 / 2024 2:05:00 PM
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TED J. SCHIRMER
E-8623
10-4-24
STATE OF NEBRASKA

Telecommunications Risers & Details Plan

T2.01