NEBRASKA DEPARTMENT OF CORRECTIONS TECUMSEH STATE CORRECTIONAL INSTITUTION FIBER CABLE REPLACEMENT 2725 NE-50, Tecumseh, Nebraska 68450

Construction Documents March 12, 2024

DCS PROJECT # 2315A

<u>PHASII</u>	NG 50	CHEDUL	E															
APR 2024	MAY 2024	JUN 2024	JUL 2024	AUG 2024	SEP 2024	OCT 2024	NOV 2024	DEC 2024	JAN 2025	FEB 2025	MAR 2025	APR 2025	MAY 2025	JUN 2025	JUL 2025	AUG 2025	SEP 2025	0CT 2025
		EETING 4/2																
	SITE ADMIN SUPPORT BLDGS HOUSING UNITS			CONTRACT WORK KEEP DOWNTIME TO A MINIMUM														
						PUNCH	LIST / CL	OSE OUT										

NOTE:

NORMAL OPERATING TIMES AT THIS FACILITY ARE FROM 7:30 AM TO 3:30 PM MONDAY THROUGH FRIDAY. GENERAL CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH OWNER AT WEEKLY MEETINGS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL WORK SHALL BE COORDINATED WITH THE FACILITY DIRECTOR AT LEAST 1 WEEK PRIOR TO COMMENCING ACTIVITY IN ANY PARTICULAR AREA.

- GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING INFORMATION ON ALL CONTRACTORS AND SUB-CONTRACTOR (INFORMATION TO INCLUDE BUT NOT LIMITED TO: NAME, ADDRESS, AND DATE OF BIRTH) TO THE NEBRASKA STATE PATROL FOR BACKGROUND CHECK. GENERAL CONTRACTOR IS TO PROVIDE OWNER WITH STATE PATROL'S REPORT LISTING CONTRACTORS WHO HAVE PASSED THE BACKGROUND CHECK.
- THIS IS A TOBACCO FREE FACILITY. CONSTRUCTION PROJECT EMPLOYEES MAY USE TOBACCO PRODUCTS ONLY IN THE DESIGNATED AREAS.
- CONTRACTOR IS RESPONSIBLE FOR PROPER NOTIFICATION OF WORK THAT MAY AFFECT THE BUILDING OCCUPANTS; WORK INCLUDES, BUT NOT LIMITED TO, TEMPORARY BLOCKAGE OF EGRESS AND EXITS, DEACTIVATION OF FIRE ALARM AND/OR FIRE SUPPRESSION SYSTEM, OR ANY UTILITY INTERRUPTION.
- ALL VEHICLES, TOOLS, AND EQUIPMENT ARE TO REMAIN SECURE AT ALL TIMES AND IS THE RESPONSIBILITY OF THE CONTRACTOR. PLAN INDICATES AREA THAT CAN BE USED AS STAGING AREA FOR CONTRACTORS.
- CONTRACTOR IS RESPONSIBLE FOR INFORMING OWNER VIA HOT WORK (WELDING, BRAZING, SOLDERING) PERMIT OF ALL HOT WORK BEING PERFORMED.
- CONTRACTOR IS RESPONSIBLE FOR FILLING OUT AND FILING ALL REQUIRED PERMITS AND PAPERWORK.
- SYSTEM SHUT DOWNS SHALL BE COORDINATED WITH THE OWNER A MINIMUM 1 WEEK PRIOR TO ACTUAL SHUT DOWN. SHUTDOWNS WILL BE WEATHER DEPENDANT. SHUT DOWN AT THE END OF EACH PHASE SHALL BE AS SHORT AS POSSIBLE TO A MAXIMUM OF 2 DAYS. ALL EFFORTS SHALL BE MADE TO REDUCE THE LENGTH OF THE SHUTDOWN.
- CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY CONDITIONS FOR EXACT SIZES AND LOCATIONS, ALL EXISTING CONDITIONS ARE SHOWN BASED ON VISIBLE EXISTING CONDITIONS AND ORIGINAL DESIGN DRAWINGS.

NOTE:

ALL CONTRACTORS AND SUB-CONTRACTORS BEFORE BIDDING SHALL READ AND REVIEW ALL SHEETS FOR THE EXTENTS OF THEIR RESPECTIVE WORK. EACH CONTRACTORS WORK MAY SHOW UP ON SHEETS OTHER THAN THEIR NAMED SHEETS. THIS PROJECT CONTAINS A SPECIFICATION BOOK. ALL CONTRACTORS ARE RESPONSIBLE FOR MEETING ALL REQUIREMENT OUTLINED.

GHT SHAD	NOTES ID IS GENERAL IN NATURE, NOT ALL SYMBOLS SHOWN ARE USED DING INDICATES ITEM IS EXISTING HEIGHTS ARE FROM ABOVE FINISHED FLOOR TO CENTER OF BOX,		OTHERWISE		
1	KEY NOTE DESIGNATION	B	BELL - STAND ALONE DEVICE OR CONNECTED TO MASTER CLOCK	A	AMPERES
XX-#	EQUIPMENT DESIGNATION, REFER TO EQUIPMENT CONNECTION SCHEDULE	(1)	CLOCK – STAND ALONE DEVICE OR CONNECTED TO MASTER CLOCK SYSTEM	AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
S	SINGLE POLE SWITCH @48"AFF DOUBLE POLE SWITCH @48"AFF (IF SERVING MECHANICAL	0	DUCT SMOKE DETECTOR	AFI	ARC FAULT CIRCUIT INTERRUPT
S ² S ³	EQUIPMENT, LOCATE ADJACENT TO UNIT) THREE WAY SWITCH @48"AFF	@ M	DOOR CONTACT MOTOR CONNECTION	ATS	AUTOMATIC TRANSFER SWITCH
S ⁴	FOUR WAY SWITCH @48"AFF	(P)	PUSH BUTTON @48"AFF	AWG BB/BC/FACB	AMERICAN WIRE GAUGE FIRE ALARM BATTERY CABINET
SS _P	INBOARD/OUTBOARD SWITCH @48"AFF	(\$)	CEILING MOUNT SPEAKER TELEVISION OUTLET @18"AFF - ROUTE 3/4"C TO ABOVE	BFG	BELOW FINISH GRADE
S ^K	KEY SWITCH @48"AFF MOMENTARY CONTACT SWITCH @48"AFF	10	ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE	C CATV	CONDUIT CABLE TELEVISION
SP	PILOT LIGHT SWITCH @48"AFF	Q	WALL MOUNT CLOCK OUTLET @90"AFF - ROUTE 3/4"C TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE	CCTV	CLOSED-CIRCUIT TELEVISION
S ^T STE	TIMER SWITCH @48"AFF MANUAL STARTER WITH TOGGLE – PROVIDE THERMAL	®	PHOTO CONTROLLER	CLG	CEILING
_	ELEMENT IF MOTOR IS NOT INTERNALLY PROTECTED	@	DIGITAL PUSHBUTTON LIGHTING CONTROL STATION, LETTER INDICATES TYPE @ 48" AFF.	CO CU	CARBON MONOXIDE COPPER
D D	START/STOP SWITCH @48"AFF DIMMER @48"AFF	<u> </u>	WALL MOUNT SPEAKER @84"AFF - ROUTE 3/4"C TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE	D	INDICATES ITEM TO BE DEMOLI
0#	CEILING MOUNT LIGHT FIXTURE - NUMBER INDICATES	В	BOILER SHUTDOWN SWITCH @48"AFF	E EM	INDICATES EXISTING ITEM EMERGENCY
0	DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE CEILING MOUNT LIGHT FIXTURE WITH EMERGENCY BALLAST OR	C ES	CARD READER @40"AFF ELECTRIC STRIKE	EMD	ESTIMATED MAXIMUM DEMAND
Ø *	ON EMERGENCY POWER - NUMBER INDICATES DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE	H	MAGNETIC DOOR HOLDER	EMT	ELECTRICAL METALLIC TUBING EMERGENCY RESPONDER COMMU
O #	WALL MOUNT LIGHT FIXTURE - NUMBER INDICATES	HD	DUAL INPUT MODULE	ERCES	ENHANCEMENT SYSTEM
I .	DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE WALL MOUNT LIGHT FIXTURE WITH EMERGENCY BALLAST OR	HR HZ	RELAY WITH INPUT MODULE ZONE INPUT MODULE	ERRCS	EMERGENCY RESPONDER RADIO CO System
Ø *	ON EMERGENCY POWER - NUMBER INDICATES DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE		INTERCOM CALL-IN SWITCH @48"AFF	EXP	EXPLOSION PROOF
	$\overline{\cdot}$	J	JUNCTION BOX @18"AFF - ROUTE 1"C TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE	F FA	FRACTIONAL FIRE ALARM
	FLUORESCENT/LED LIGHT FIXTURE - NUMBER INDICATES	K	KEYPAD @48"AFF	FAAP	FIRE ALARM ANNUNCIATOR PA
$\overline{\overline{A}}$	DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE	M ML	MICROPHONE OUTLET @18"AFF MAGNETIC LOCK	FACP FCM	FIRE ALARM CONTROL PANEL FIRE ALARM CONTROL MODULE
₩	,	N	NURSE CALL @48"AFF	FCPS	FIELD CHARGER POWER SUPPL
		P	PANIC BUTTON	FSEC	FOOD SERVICE EQUIPMENT CON
	FLUORESCENT/LED LIGHT FIXTURE WITH EMERGENCY	TP R	TELE-POWER POLE RELAY	GND GFI	GROUND GROUND FAULT CIRCUIT INTER
<u></u>	BALLAST OR ON EMERGENCY POWER - NUMBER INDICATES DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE	RE	REQUEST TO RELEASE ACTUATOR	GCC	GRAPHIC COMMAND CENTER
₩#		V	VOLUME CONTROL @48"AFF	HA	HIGH ABUSE/SECURITY CAST V
_	CEILING MOUNT, SINGLE FACE EXIT SIGN – ARROW INDICATES	•	FIRE ALARM PULL STATION @48"AFF TO TOP FIRE ALARM FLASHING STROBE LIGHT @80"AFF TO BOTTOM	HG HL	HOSPITAL GRADE HAZARDOUS LOCATION
⊗ *	DIRECTION – NÚMBER INDICATES DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE		OR 6" BELOW CEILING	HPS	HIGH PRESSURE SODIUM
:⊗ *	CEILING MOUNT, DOUBLE FACE EXIT SIGN - ARROW INDICATES DIRECTION - NUMBER INDICATES DESIGNATION, REFER TO	⊗	CEILING MOUNT FIRE ALARM FLASHING STROBE LIGHT FIRE ALARM HORN AND FLASHING STROBE LIGHT @80"AFF	HVAC	HEATING, VENTILATION & AIR
· ·	LIGHT FIXTURE SCHEDULE		TO BOTTOM OR 6" BELOW CEILING	KAIC KVA	THOUSAND AMPS INTERRUPTING KILOVOLT AMPERES
⊗ ,	WALL MOUNT EXIT SIGN - ARROW INDICATES DIRECTION - NUMBER INDICATES DESIGNATION, REFER TO LIGHT FIXTURE	⊗⊲	CEILING MOUNT FIRE ALARM HORN AND FLASHING STROBE LIGHT	KW	KILOWATTS
	SCHEDULE COMBINATION EXIT SIGN AND EMERGENCY LIGHTING UNIT -		FIRE ALARM SPEAKER AND FLASHING STROBE LIGHT @80"AFF TO BOTTOM OR 6" BELOW CEILING	LED	LIGHT EMITTING DIODE
₩,	NUMBER INDICATES DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE	© \$	CEILING MOUNT FIRE ALARM SPEAKER AND FLASHING STROBE	MCA MCM	MINIMUM CIRCUIT AMPACITY THOUSAND CIRCULAR MILS
7. ♡	EMERGENCY LIGHTING UNIT - NUMBER INDICATES DESIGNATION,		FIRE ALARM HORN @80"AFF TO BOTTOM OR 6" BELOW	MH	METAL HALIDE
──── * ▽	REFER TO LIGHT FIXTURE SCHEDULE TRACK LIGHTING - NUMBER INDICATES DESIGNATION, REFER TO		CEILING FIRE ALARM BELL @80"AFF TO BOTTOM OR 6" BELOW	MOCP NEC	MAXIMUM OVER CURRENT PRO NATIONAL ELECTRIC CODE
10	LIGHT FIXTURE SCHEDULE	H O	CEILING SMOKE DETECTOR	NFPA	NATIONAL FIRE PROTECTION A
A.	CEILING FAN – NUMBER INDICATES DESIGNATION, REFER TO LIGHT FIXTURE SCHEDULE	(THERMAL HEAT DETECTOR	NL	NIGHT LIGHT
}⊷□ •	POLE MOUNT LIGHT FIXTURE - NUMBER INDICATES TYPE, REFER TO LIGHT FIXTURE SCHEDULE	\Leftrightarrow	WATER FLOW SWITCH	P PVC	POLE POLYVINYL CHLORIDE NON ME
0 *	CEILING MOUNT OCCUPANCY SENSOR - NUMBER INDICATES DESIGNATION, REFER TO OCCUPANCY SENSOR SCHEDULE	X -⊘	TAMPER SWITCH	R	INDICATES ITEM TO BE RELOC
	WALL MOUNT OCCUPANCY SENSOR - ARROW INDICATES	(PIV) HD	POST INDICATOR VALVE SINGLE BED CALL LIGHT	RGS	RIGID GALVANIZED STEEL CON
: ⊕	DIRECTION – NUMBER INDICATES DESIGNATION, REFER TO OCCUPANCY SENSOR SCHEDULE	$\bigoplus_{\mathbf{D}}$	DOUBLE BED CALL LIGHT	RSC SPD	RIGID STEEL CONDUIT SURGE PROTECTIVE DEVICE
Θ	SIMPLEX RECEPTACLE @18"AFF		CLOSED CIRCUIT TELEVISION CAMERA DOOR CHIME @80"AFF	SS	STAINLESS STEEL
⊕ ⊜	DUPLEX RECEPTACLE @18"AFF SPECIAL RECEPTACLE @18"AFF		SURFACE MOUNT, LIGHTING & APPLIANCE PANELBOARD	TEL TR	TELEPHONE TAMBER DESISTANT
⊕	QUADPLEX RECEPTACLE @18"AFF	₹ 'A'	@72"AFF TO TOP - LETTER INDICATES DESIGNATION - HATCHING INDICATES REQUIRED CLEARANCE	TV	TAMPER RESISTANT TELEVISION
(HORIZONTAL DUPLEX RECEPTACLE @44"AFF	'B'	FLUSH MOUNT, LIGHTING & APPLIANCE PANELBOARD @72"AFF TO TOP – LETTER INDICATES DESIGNATION – HATCHING	V	VOLTS
⊕ ⊕	ISOLATED GROUND DUPLEX RECEPTACLE @18"AFF SPLIT DUPLEX RECEPTACLE @18"AFF		INDICATES REQUIRED CLEARANCE	VA VFD	VOLT-AMPERES VARIABLE FREQUENCY DRIVE
Q	CEILING MOUNT OR SUSPENDED DUPLEX RECEPTACLE	'MDP'	POWER DISTRIBUTION PANELBOARD – LETTER INDICATES DESIGNATION – HATCHING INDICATES REQUIRED CLEARANCE	W	WATTS
⊙ ЭЭ	FLOOR RECEPTACLE		HOMERUN - LETTER INDICATES PANELBOARD - NUMBER	WG	WIRE GUARD
⊙ ▼	COMBINATION FLOOR BOX TELEPHONE OUTLET @18"AFF - ROUTE 1"C TO ABOVE	A-1	INDICATES CIRCUIT CONDUIT IN WALL OR CEILING – SYMBOL REPRESENTS	WP XFMR	WEATHERPROOF TRANSFORMER
2	ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE DATA OUTLET @18"AFF -NUMBERS INDICATED JACKS		UNSWITCHED CIRCUIT		
∇	REQUIRED (NO NUMBER INDICATES ONE-1 JACK) - ROUTE 1"C TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE		DATA RACEWAY DATA & TELEPHONE RACEWAY		
_2	COMBINATION TELEPHONE/DATA OUTLET @18"AFF - NUMBERS INDICATE JACKS REQUIRED (NO NUMBER INDICATES ONE-1	<u></u> EM <u></u>	EMERGENCY CIRCUIT		
$lackbox{V}$	JACK) - ROUTE 1"C TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE	——F0—— ——GP0——	FIBER OPTICS RACEWAY GENERATOR POWER OUTPUT		
	FUSIBLE DISCONNECT SWITCH @54"AFF		OVERHEAD SECONDARY ELECTRICAL SERVICE		
	NON-FUSIBLE DISCONNECT SWITCH @54"AFF		TELEPHONE RACEWAY		
⊠ ⊠	MOTOR STARTER @54"AFF COMBINATION STARTER @54"AFF	—UF—	TELEVISION RACEWAY CONDUIT TO BE CONCEALED UNDER FLOOR		
<u> </u>	ENCLOSED CIRCUIT BREAKER				
	PLUGMOLD RACEWAY MULTIOUTLET SYSTEM		UNDERGROUND PRIMARY ELECTRICAL SERVICE		
▲	PAD MOUNT TRANSFORMER DRY TRANSFORMER	——USE——			
	TELEPHONE PEDESTAL	— ⊲ SD	SMOKE DAMPER		
TV	TELEVISION PEDESTAL	─ FSD	FIRE/SMOKE DAMPER		
	WIRELESS ACCESS POINT				

(ACT) ACOUSTICAL PANEL CEILING SYSTEM

(OTS) OPEN TO STRUCTURE

(CON) CONCRETE CEILING

(PMC) PERFORATED METAL CEILING

(SGW) SUSPENDED GYPSUM WALL BOARD CEILING

ELECTRICAL GENERAL NOTES DISPOSED OF PROPERLY. **DEMOLITION GENERAL NOTES** G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING ANY HOLES IN EXISTING/NEW BEAMS THAT ARE REQUIRED FOR ROUTING THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE DURING ON-SITE INVESTIGATION AND/OR EXISTING DRAWINGS. THERE MAY BE MORE DEVICES TO BE REMOVED THAN SHOWN. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE PRIOR TO SUBMITTING A BID. PIPING/DUCT/CONDUIT. ALL HOLES TO BE MADE IN THE MIDDLE THIRD (HEIGHT AND WIDTH WISE) OF THE BEAMS. COORDINATE WITH STRUCTURAL ENGINEER/GENERAL CONTRACTOR BEFORE CUTTING. THE BUILDING NEEDS TO REMAIN FUNCTIONAL DURING ALL PHASES OF CONSTRUCTION. COORDINATE ALL REQUIREMENTS WITH THE OWNER AND ARCHITECT. MAINTAIN THE INTEGRITY OF ALL DEVICES NOT COORDINATE ALL WALL PENETRATIONS WITH EXISTING/NEW STRUCTURAL CONDITIONS. MAINTAIN ALL ROOF WARRANTIES. ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE CAULKED AND SEALED WITH APPROVED FIRE RATED CAULKING ALL DASHED ITEMS AND ITEMS NOTED WITH 'D' SHALL BE REMOVED IN THEIR ENTIRETY. THIS INCLUDES WIRING DEVICES, CONDUIT/RACEWAY, J-BOXES, AND ALL ASSOCIATED WIRING/CABLING TO EXTENT POSSIBLE. NOT ALL OR EVERY ITEM IS SHOWN FOR INSTALL RACEWAYS AND ELECTRICAL EQUIPMENT, WHICH PENETRATE FIRE-RATED OR SMOKE BARRIER SURFACES, IN A MANNER, WHICH MAINTAINS THE SURFACE RATING OR BARRIER INTENT. DRILL WALL AND FLOOR OPENINGS FOR PENETRATIONS AS NEEDED. THE EXISTING ITEMS SHOWN IN LIGHT SHADE ARE TO REMAIN AND SHALL CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING SLEEVES, CUTTING BE PROTECTED. ALL DEVICES SHOWN WITH 'RL' ARE TO BE REMOVED AND PATCHING, AND PLACING ROOF PENETRATIONS. AND RELOCATED. RETEST ALL AFFECTED DEVICES TO MAINTAIN CIRCUIT INTEGRITY OF ALL EXISTING CIRCUITS AND CONNECTIONS. J. PROVIDE PERMANENT TYPED LABELS PER NEC 110 AND AHJ. EXISTING ELECTRICAL CONDUIT WHICH IS NOT CONCEALED IN WALLS K. THE CONTRACTOR SHALL COORDINATE SERVICE INTERRUPTIONS WITH OWNER, MINIMUM OF 10 DAYS NOTICE IN ADVANCE. OR FLOOR SLAB AND WHICH IS NOT BEING REUSED SHALL BE REMOVED. WIRING SHALL BE REMOVED AND ABANDONED CONDUIT SHALL BE CUT OFF FLUSH WHERE IT ENTERS THE FLOOR OR WALL L. ALL CONDUIT IN EXPOSED CEILING AREAS SHALL BE RUN IN AND SEALED. EXISTING CONDUIT TO REMAIN SHALL BE SUPPORTED. STRAIGHT LINES PARALLEL TO OR AT RIGHT ANGLES TO BUILDING WHERE DEVICES ARE TO BE REMOVED FROM EXISTING SURFACES OR ABANDONED, THE CONTRACTOR SHALL INSTALL BLANK STAINLESS M. COORDINATE FINAL LOCATIONS OF EQUIPMENT AND ENCLOSURES IN STEEL WALL PLATES. EXTRA CARE SHOULD BE TAKEN NOT TO UNFINISHED AREAS WITH PIPING, DUCTWORK, EQUIPMENT, CABLE TRAY, ETC. TO AVOID CONFLICTS. MAKE MINOR ADJUSTMENTS TO DAMAGE EXISTING SURFACES OR FINISHES. ALL REPAIR COSTS SHALL BE AT THE EXPENSES OF THE CONTRACTOR. REPAIR ALL HOLES FIXTURE AND/OR DEVICE LOCATIONS AS REQUIRED. FROM THE REMOVAL OF ELECTRICAL ITEMS AND PATCH/PAINT TO MATCH EXISTING. N. ANY MODIFICATION TO CONDUIT ROUTINGS FROM WHAT IS SHOWN ON THESE PLANS MUST BE SUBMITTED AND APPROVED PRIOR TO ALL NEW WIRING/CONDUITS SHALL BE CONCEALED IN NEW WALLS AND ALSO IN EXISTING WALLS WHERE POSSIBLE. EVERY EFFORT JNICATIONS SHALL BE MADE TO CONCEAL WIRING IN EXISTING WALLS. 3/4" O. ALL CONDUIT INSTALLED (EXCLUDING EQUIPMENT ROOMS) SHALL BE FLEXIBLE METALLIC CONDUIT MAY BE USED AND ROUTED THROUGH CONCEALED. CONDUIT IN INMATE AREAS AND WHERE FEASIBLE IN THE REMAINDER OF THE FACILITY, SHALL BE ROUTED UNDER SLAB OR ABOVE CEILINGS. FULLY COORDINATE THE MOUNTING LOCATIONS OF ALL PULL BOXES AND CONDUIT ROUTING WITH ALL TRADES. EXISTING WALLS. BOXES SHALL BE CUT IN AND RECESSED WHERE POSSIBLE. SURFACE MOUNT CONDUIT INSTALLATIONS ARE ACCEPTABLE ONLY IN UNFINISHED AREAS (I.E. MECHANICAL AND ELECTRICAL P. EXISTING EQUIPMENT AND CONDITIONS INDICATED HERE WERE SURFACE INSTALLATIONS IN FINISHED AREAS SHALL BE PERMITTED GATHERED FROM AS-BUILT DOCUMENTS AND SITE SURVEYS. ALL ONLY IF ABSOLUTELY NECESSARY. IF IT IS NOT PHYSICALLY INFORMATION IS BELIEVED TO BE CORRECT, BUT IS NOT GUARANTEED. THE CONTRACTOR SHALL CONFIRM ALL EXISTING POSSIBLE OR PRACTICAL TO CONCEAL RACEWAYS, THE CONTRACTORS SHALL BE PREPARED TO FURNISH AND INSTALL CONDUIT WITH 2 HOLE STRAPS FOR ADDED SECURITY. FOR NEW DEVICES SHOWN ON EQUIPMENT LOCATION AND CONDITIONS (SHOWN IN HALF-TONE/DASHED) UNLESS OTHERWISE NOTED. EXISTING GYP-BOARD WALLS, CONTRACTOR SHALL BE CUT NEW RECESSED REMODEL J-BOX INTO WALL AND ROUTE 3/4" FLEXIBLE WHERE FLOORS OR WALLS ARE PENETRATED, TAKE ALL METALLIC CONDUIT INSIDE WALL FROM J-BOX TO ABOVE CEILING TO PRECAUTIONS TO AVOID STRUCTURAL DAMAGE. FIREPROOF ALL ACCESSIBLE AREA. CONDUIT ENDS SHALL BE REAMED AND FREE OF BURRS. SURFACE MOUNT EMT IS ACCEPTABLE IN UNFINISHED AREAS. PENETRATIONS MADE FOR THIS PROJECT. THE CONTRACTOR SHALL PATCH ANY HOLES IN EXISTING WALL/CEILING WHERE PENETRATION OCCURS. FILL HOLES WITH GROUT. MATCH COLOR OF EXISTING WALLS NEW BOXES SHALL BE CUT IN & RECESSED WHERE POSSIBLE. AS CLOSELY AS POSSIBLE. PLATE ELECTRICAL CONTRACTOR SHALL MAKE EVERY EFFORT TO CONCEAL NEW RACEWAYS IN EXISTING WALLS [3/4" FMC WILL BE PERMITTED]. AD. ALL INTERIOR PENETRATIONS SHALL BE FIRE SEALED IN ACCORDANCE EXPOSED RACEWAYS WILL BE PERMITTED IN UNFINISHED AREAS WITH THE EXISTING WALL RATING. EXPOSED CONDUIT BELOW (12') SHALL BE RIGID, ATTACHED, AND STRAPPED. ALL EXTERIOR PENETRATIONS SHALL BE WEATHER SEALED. IF IT IS NOT PHYSICALLY POSSIBLE OR PRACTICAL TO CONCEAL RACEWAYS, ELECTRICAL CONTRACTOR SHALL BE PREPARED TO AE. EXISTING WIRING THAT IS NOT RE USED/ENERGIZED CANNOT BE FURNISH/INSTALL ONE-PIECE STEEL SURFACE RACEWAY, WIREMOLD 700 SERIES OR EQUAL. COLOR TO BE APPROVED BY OWNER. SECURE APACITY ABANDONED IN PLACE. REMOVE ALL ABANDONED WIRE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ALL PATHWAYS WITH TWO HOLE STRAPS AND TAMPER PROOF SCREW/BOLTS HEADS. AF. WORK LIFTS SHALL REMAIN ON SITE UNTIL ALL TESTING IS COMPLETE AND THE FIRE MARSHAL HAS SIGNED OFF ON THE ENTIRE FACILITY NETWORKED SYSTEM. IF TAKEN OFF PRIOR TO COMPLETION PATCH, REPAIR, PAINT WALLS WHERE DEVICES HAVE BEEN REMOVED. PROVIDE IVORY COVERPLATES OVER UNUSED OR ABANDONED J-BOXES. NO COMPENSATION WILL BE GIVEN FOR REMOBILIZATION. AG. FIELD VERIFY AND DOCUMENT EXISTING FIBER BACKBONE SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CUTTING, FOR AS BUILT INFORMATION. DEVELOP AN INSTALLATION SCHEDULE OF THE NEW BACKBONE FIBER CABLES IN EACH OF THE BUILDINGS. PATCHING AND REPAIRING OF EXISTING WALLS WHERE NEW DEVICES/CONDUIT ARE TO BE INSTALLED RECESSED. GET SCHEDULE APPROVAL BEFORE BEGINNING WORK. ALL ABANDONED AND UNUSED CABLING SHALL BE REMOVED UNLESS AH. THE INTENT OF THIS PROJECT IS TO PROVIDE SINGLE MODE FIBER LABELED FOR FUTURE USE AND SUPPORTED BACK TO SOURCES. BETWEEN THE BUILDINGS ON THE CAMPUS UTILIZING THE EXISTING UNDERGROUND CONDUIT SYSTEM. PROVIDE INDOOR/OUTDOOR RATED SINGLE MODE OS2 FIBER THROUGHTOUT. PROVIDING FIBER SPLICE CONTRACTOR TO VISIT SITE PRIOR TO BIDDING FOR FIELD CONDITIONS. BOXES, JUMPERS, AND LC FITTINGS. C RACEWAY PROJECT GENERAL NOTES AI. PROVIDE A SIGNAMAX RACK MOUNTED ENCLOSURE FER1-031B WITH 3 UFE-B_12LC-C FOR SM, WITH 12 STRAND UFE-B_06LC-C INSERTS FOR . ALL SHEETS REQUESTED IN CAD (.DWG) FORMAT SHALL BE PROVIDED EACH 48 STRAND CABLE. SUMITOMO OR CORNING ARE ACCEPTABLE MANUFACTURES. IN ACAD 2018 AT A CHARGE OF \$25/SHEET (MINIMUM \$250) FOR FIRE ALARM, TELECOMMUNICATIONS, AND SECURITY EQUIPMENT AJ. PROVIDE PROTERIAL 61480-48 OS2, 48 STRAND INDOOR/ OUTDOOR CONTRACTORS AND FOR LIGHTING FIXTURE MANUFACTURER FIBER CABLE WITH YELLOW JACKET. SUMITOMO, HITACHI OR CORNING REPRESENTATIVES. ALL OTHERS REQUESTING CAD FILES SHALL BE ARE ACCEPTABLE MANUFACTURES. CHARGED \$50/SHEET (MINIMUM \$250). PRIOR TO TRANSMISSION OF FILES, THE REQUESTING PARTY MUST SIGN AND RETURN "DOCUMENT" AK. MOST WALLS ARE MASONRY AND WILL REQUIRE CORE DRILLING. THE ENTIRE INSTALLATION SHOWN IN THE CONSTRUCTION DOCUMENTS (CDS) SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, CITY, STATE AND NATIONAL CODES, LAWS, ACTS AND ORDINANCES AND ALL AUTHORITIES HAVING JURISDICTION, THE OWNERS INSURANCE COMPANY REQUIREMENTS, UTILITY COMPANY REQUIREMENTS, APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE AND SAFETY, THE MANUFACTURER'S STRICTEST REQUIREMENTS AND RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND INSTALLATION. IN THE EVENT OF CONFLICT BETWEEN THESE CONTRACT DOCUMENTS AND GOVERNING LAWS, THE MORE STRICT SHALL APPLY. ALL COSTS REQUIRED SHOULD BE INCLUDED IN THE DRAWINGS ARE LARGELY SCHEMATIC IN NATURE AND SHALL BE ADAPTED TO ACTUAL SITE CONDITIONS AND OWNER'S REQUIREMENTS AT NO ADDITIONAL COST. THE DRAWINGS ARE NOT INTENDED TO INDICATE EVERY DETAIL APPLICABLE TO PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONTRACT DOCUMENTS AND TO COORDINATE WITH ALL OTHER TRADES AND EXISTING/SITE CONDITIONS TO PROVIDE A FULLY FUNCTIONAL SYSTEM PER THE INTENT OF DESIGN. ALL REQUIRED SUPPORTS AND SYSTEMS SHALL BE PROVIDED FOR A FULLY FUNCTIONAL SYSTEM PER THE DESIGN INTENT, AS DETERMINED BY THE ARCHITECT AND



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www.a-e-sys.com (C) ADVANCED ENGINEERING SYSTEMS

CERTIFICATE OF AUTHORIZATION #: CA1800

24 50, 4SK

BL 272 4,

PROJECT #: 23152

ALL EQUIPMENT SHALL BE THOROUGHLY CLEANED AND ALL BARE, SCRATCHED OR MARRED AREAS SHALL BE PAINTED WITH FACTORY PAINT OR AN OWNER APPROVED EQUAL.

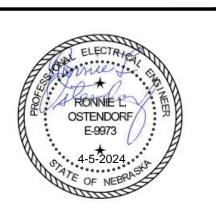
IN A MANNER SATISFACTORY TO THE OWNER'S REPRESENTATIVE, TOUCH-UP OR REFINISH FACTORY-APPLIED PAINTS OR FINISHES WHICH ARE CHIPPED, DEFACED, SCRATCHED, OR IN ANY OTHER WAY DISTURBED DUE TO HANDLING, INSTALLATION, OR GENERAL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP DURING AND AT CONCLUSION OF CONSTRUCTION PERIOD. NO MATERIALS SHALL BE LEFT ON SITE WHEN WORK IS COMPLETED, UNLESS REQUESTED BY OWNER'S REPRESENTATIVE. ALL MATERIALS SHALL BE

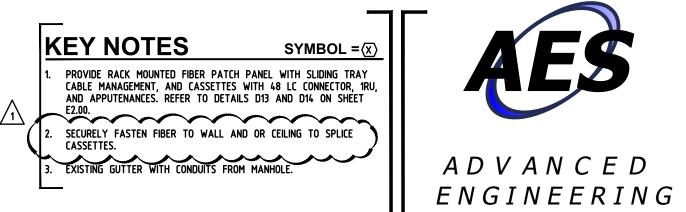
> Issued For 04/05/2024 ADDENDUM #1

DATE: 03/12/2024

TECUMSE



ELECTRICAL SYMBOLS AND GENERAL NOTES

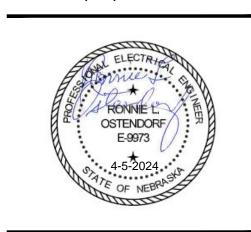




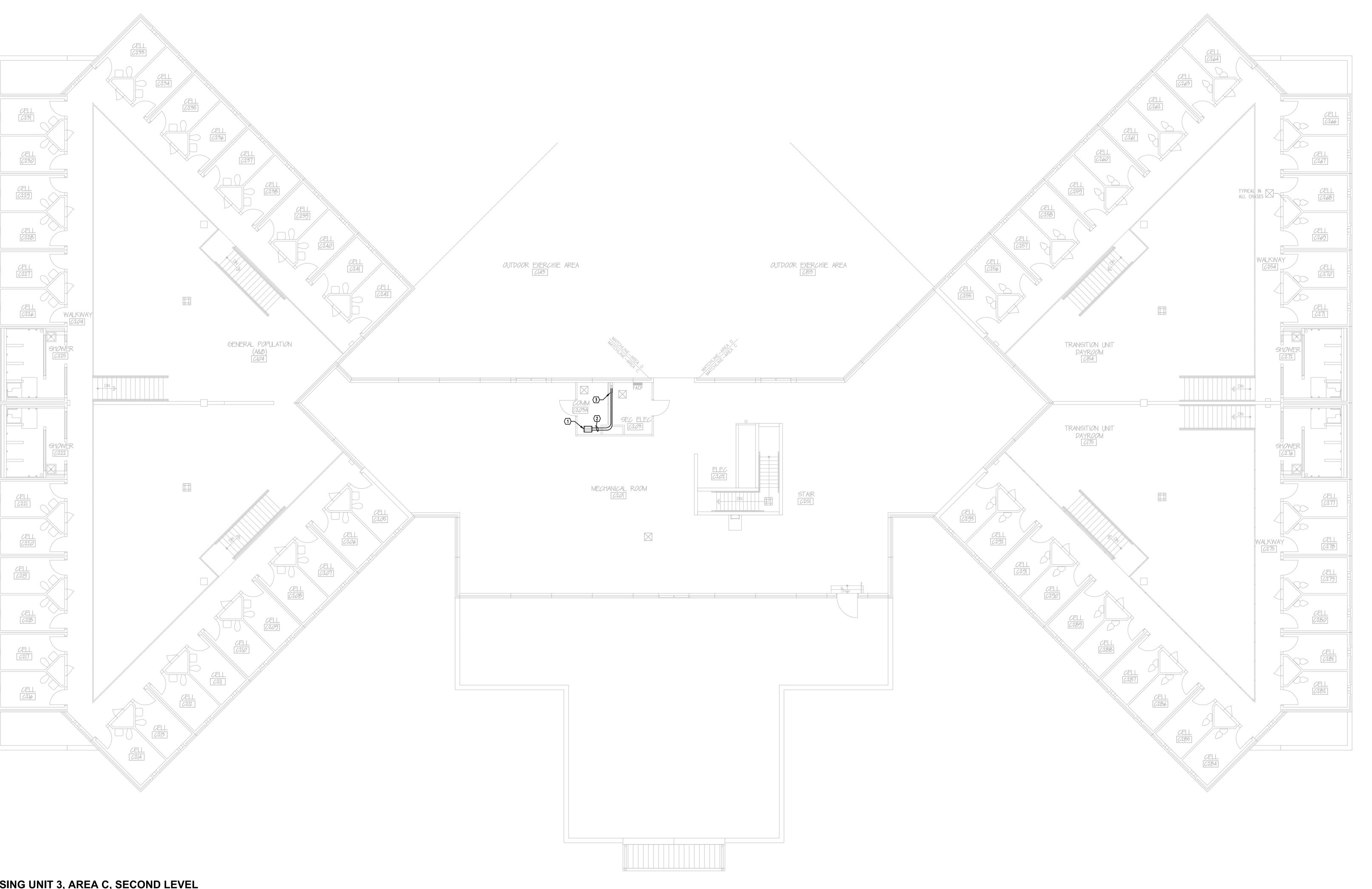
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DATE: 03/12/2024

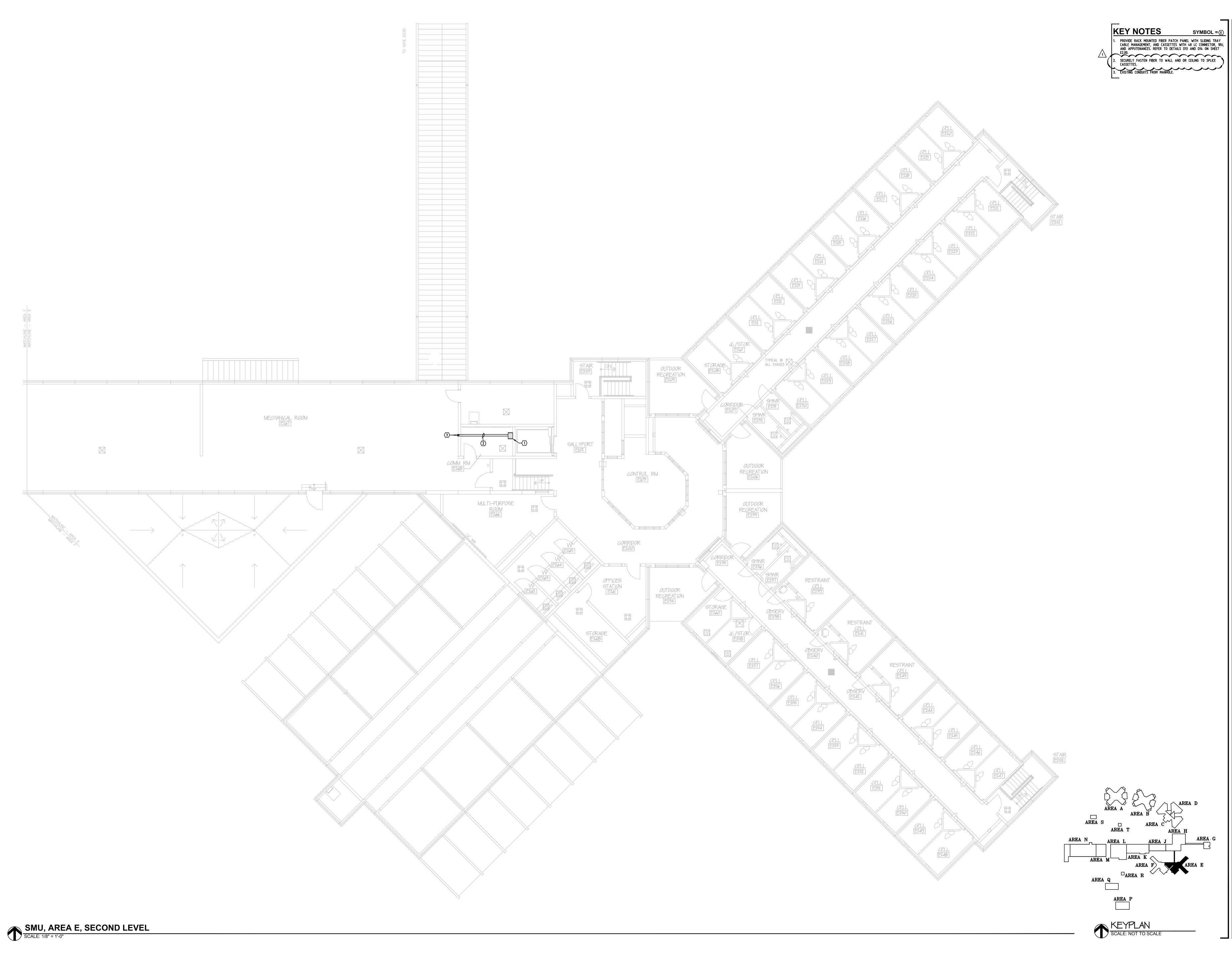


HOUSING UNIT 1 SECOND LEVEL FIBER CABLING



HOUSING UNIT 3, AREA C, SECOND LEVEL

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





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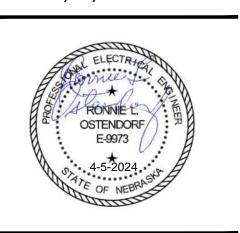
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FIBER CABLE REPLACEMENT
2725 NE-50,
TECUMSEH, NEBRASKA 68450

No. Issued For Date

1 ADDENDUM #1 04/05/2024

DATE: 03/12/2024



SMU AREA E SECOND LEVEL FIBER CABLING

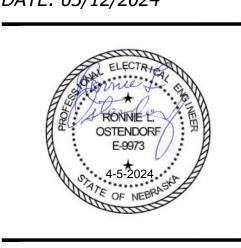
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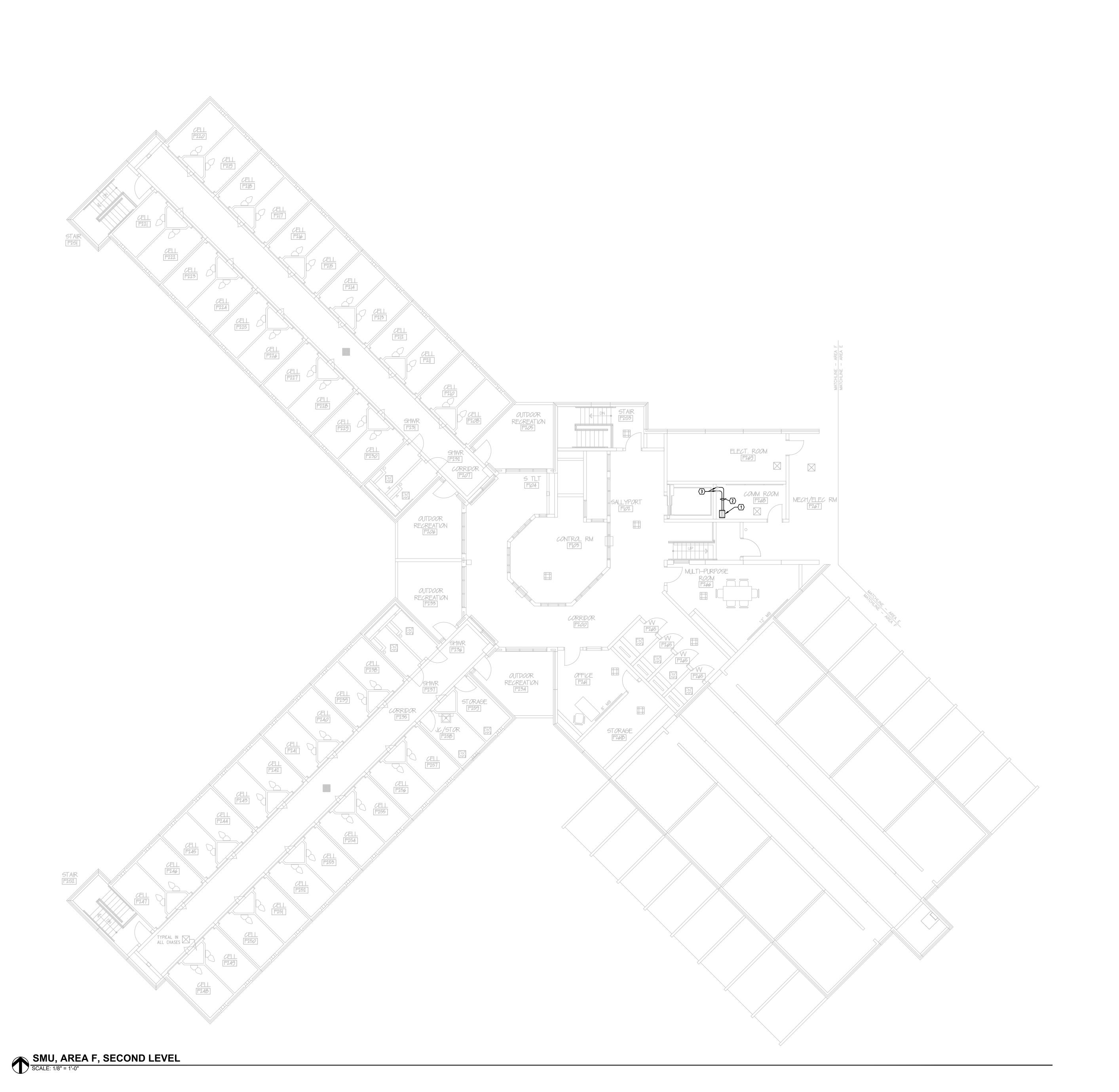
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KEYPLAN
SCALE: NOT TO SCALE



SMU AREA F SECOND LEVEL FIBER CABLING



KEY NOTES 1. PROVIDE RACK MOUNTED FIBER PATCH PANEL WITH SLIDING TRAY CABLE MANAGEMENT, AND CASSETTES WITH 48 LC CONNECTOR, 1RU, AND APPUTENANCES. REFER TO DETAILS D13 AND D14 ON SHEET E2.00.

2. SECURELY FASTEN FIBER TO WALL AND OR CEILING TO SPLICE CASSETTES.

3. EXISTING CONDUITS FROM MANHOLE.

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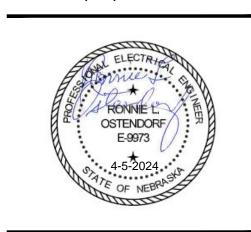
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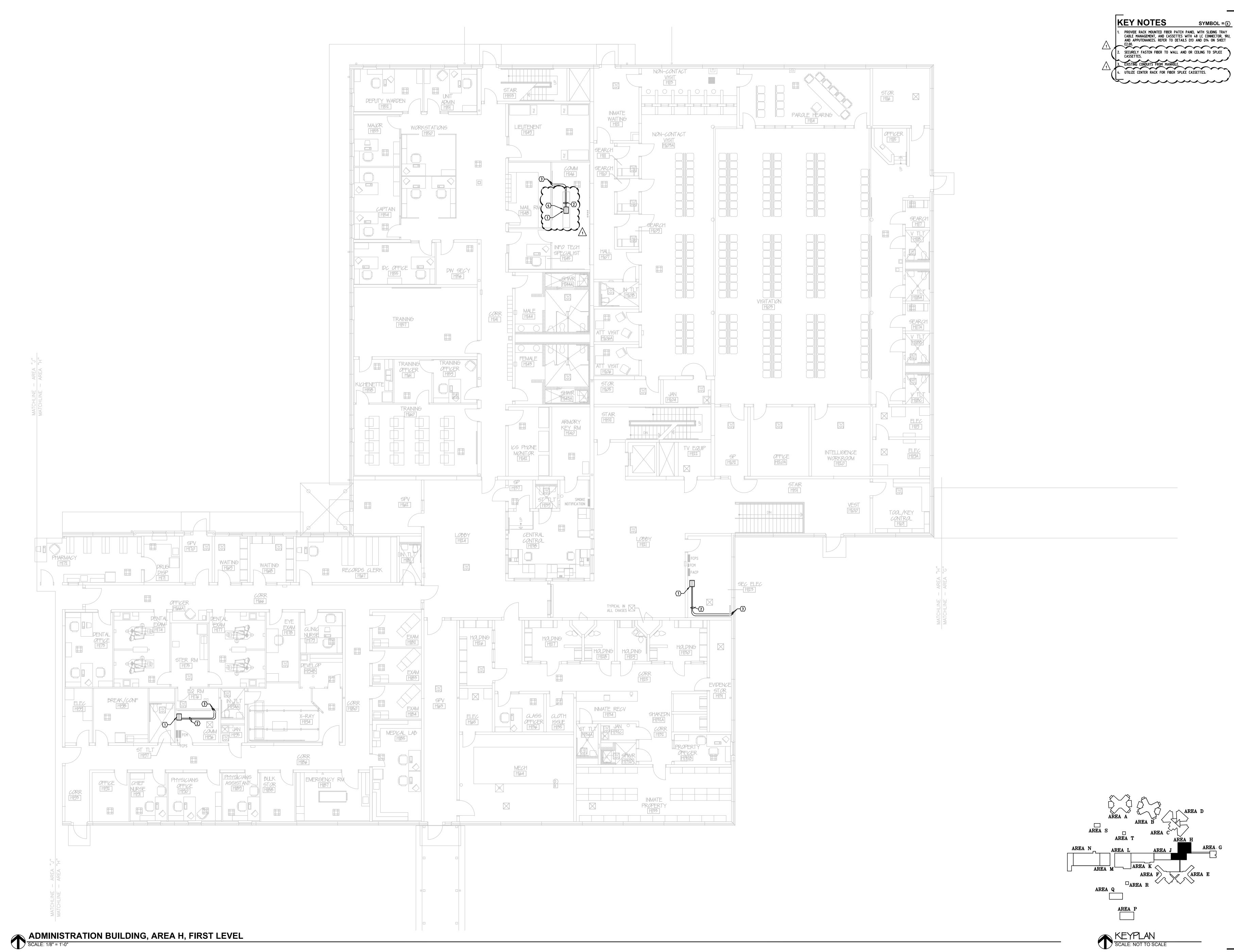
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GATEHOUSE/TUNNEL FIBER CABLING





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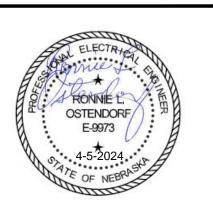
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TECUMSEH STATE CORRECTIONAL INSTITUTION FIBER CABLE REPLACEMENT
2725 NE-50,
TECHNISH NERRASKA 68450

. Issued For Date

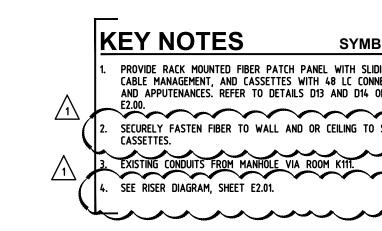
ADDENDUM #1 04/05/2024

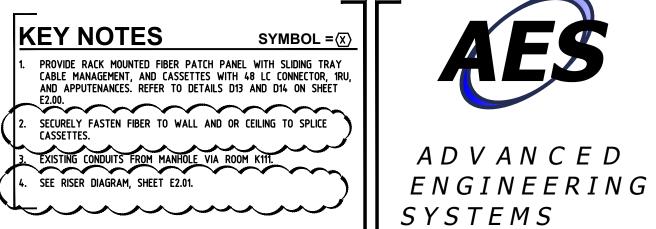
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ADMINISTRATION BUILDING FIRST LEVEL FIBER CABLING

E1.07



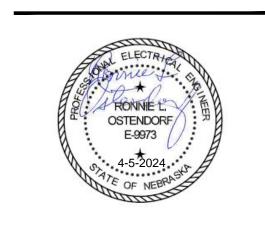


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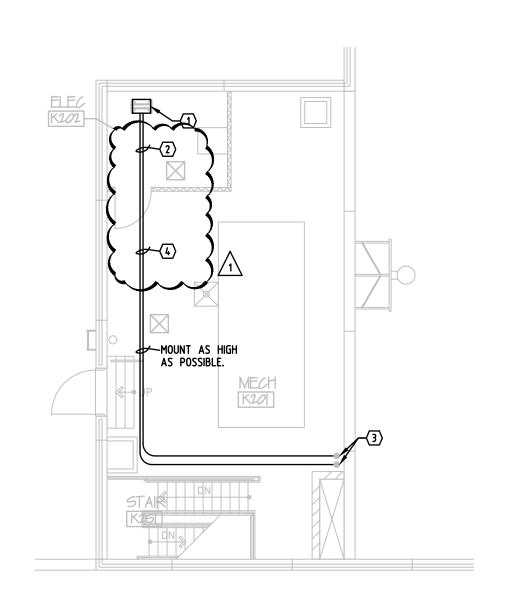
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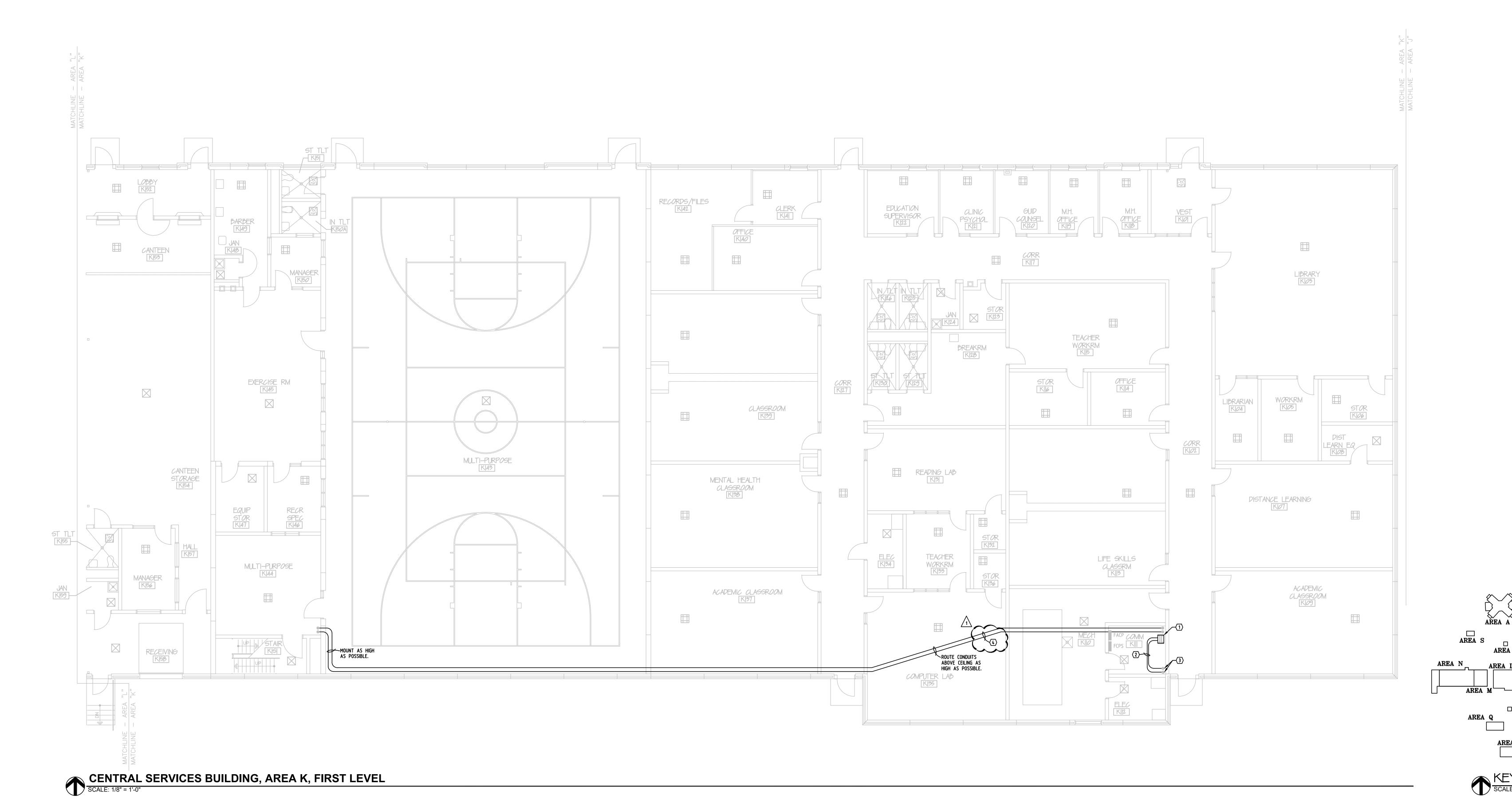


CENTRAL SERVICES BUILDING FIRST LEVEL FIRE ALARM



CENTRAL SERVICES BUILDING, AREA K, SECOND LEVEL

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



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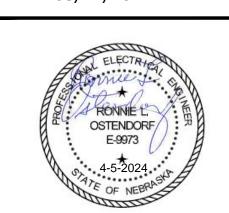
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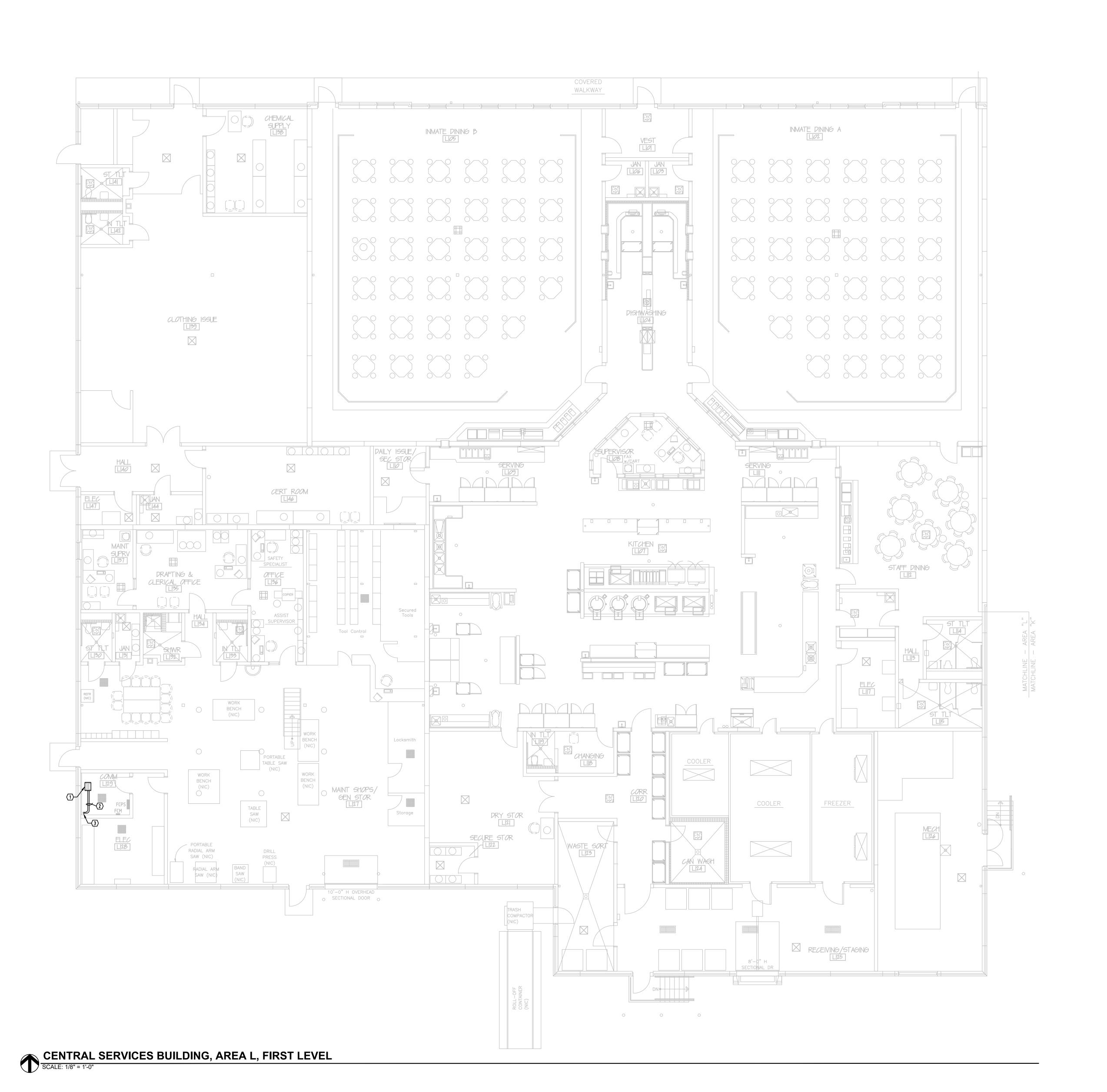
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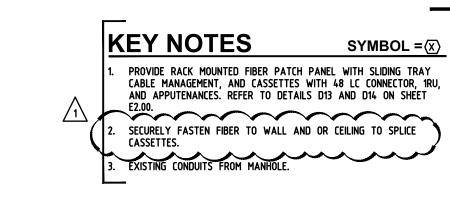
PROJECT #: 23152

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CENTRAL SERVICES BUILDING FIRST LEVEL FIBER CABLING







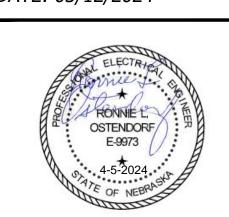
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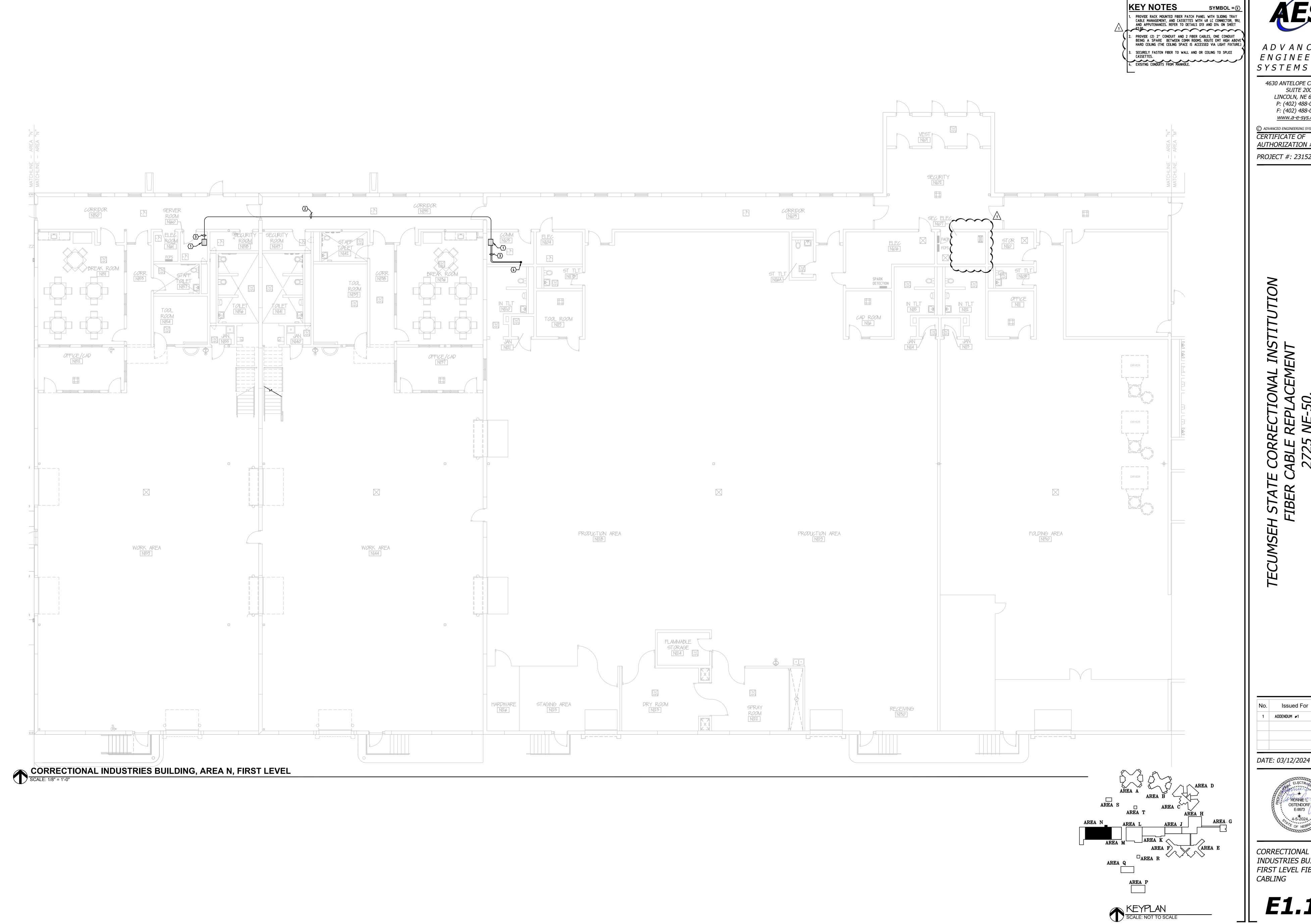
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CORRECTIONAL INDUSTRIES BUILDING FIRST LEVEL FIRE ALARM



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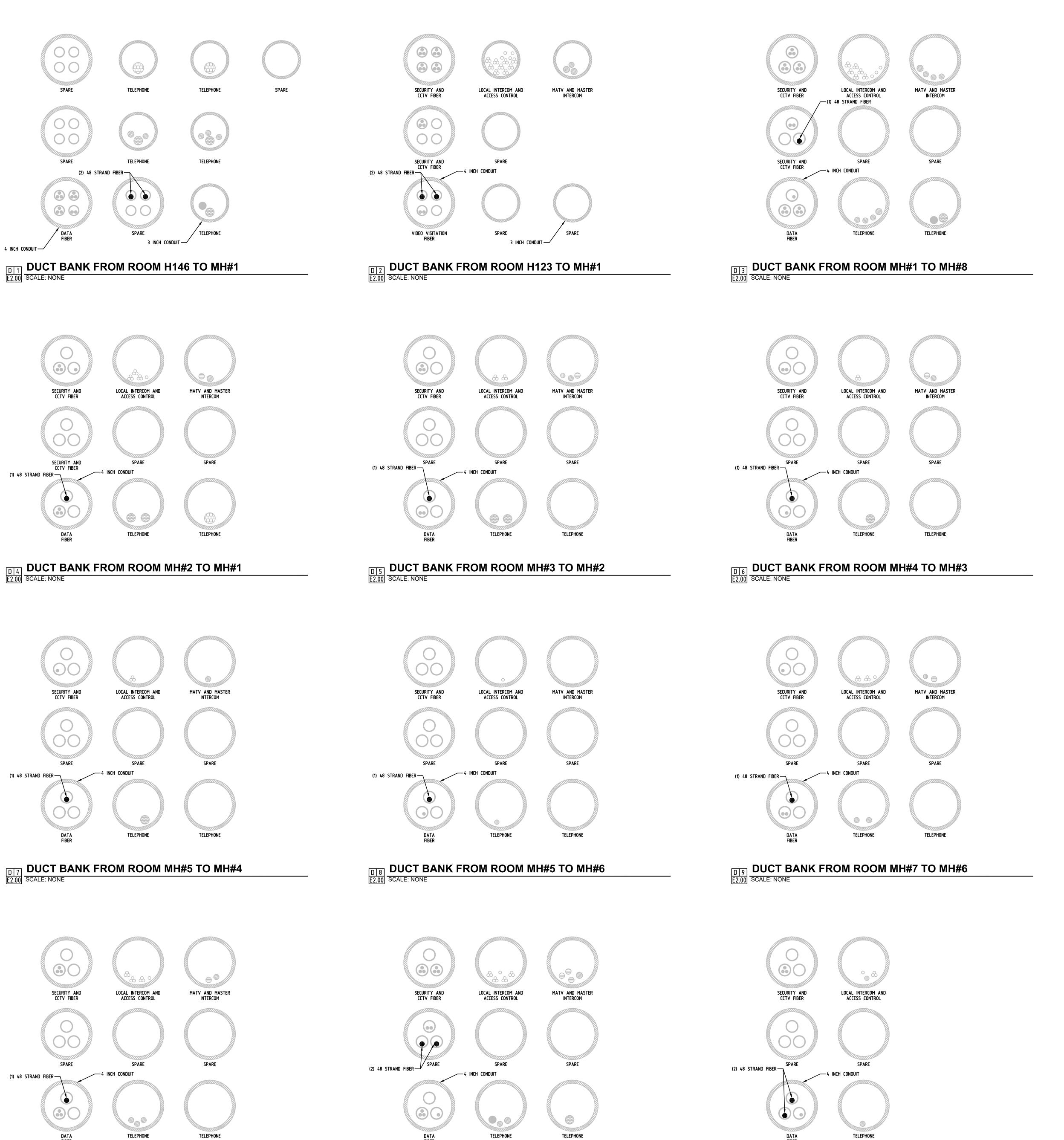
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CORRECTIONAL INDUSTRIES BUILDING FIRST LEVEL FIBER CABLING



DUCT BANK FROM ROOM MH#9 TO MH#8

DUCT BANK FROM ROOM MH#7 TO MH#8



- SUPPLEMENTAL INFORMATION TAKEN FROM RECORD DRAWINGS AND TO BE FIELD VERIFIED.
- PROVIDE AS-BUILT DOCUMENTATION OF PATHWAY USED. FIELD VERIFY AND USE DESIGNATED PATHWAY FOR
- NOTIFY OWNER AND ENGINEER IF FOUND UNUSABLE. PROVIDE ENGRACED BRASS TAGS ON CABLES SECURED WITH STAINLESS STEEL BAND. ENGRAVED INFORMATION SHALL INDICATE BUILDING NOMENCLATURE AND ROOM

NUMBER THE CABLE IS GOING TO. LETTERS SHALL BE 3/8"

150 PAIR TELEPHONE 100 PAIR TELEPHONE

O ACCESS CONTROL

LOCAL INTERCOM CABLES

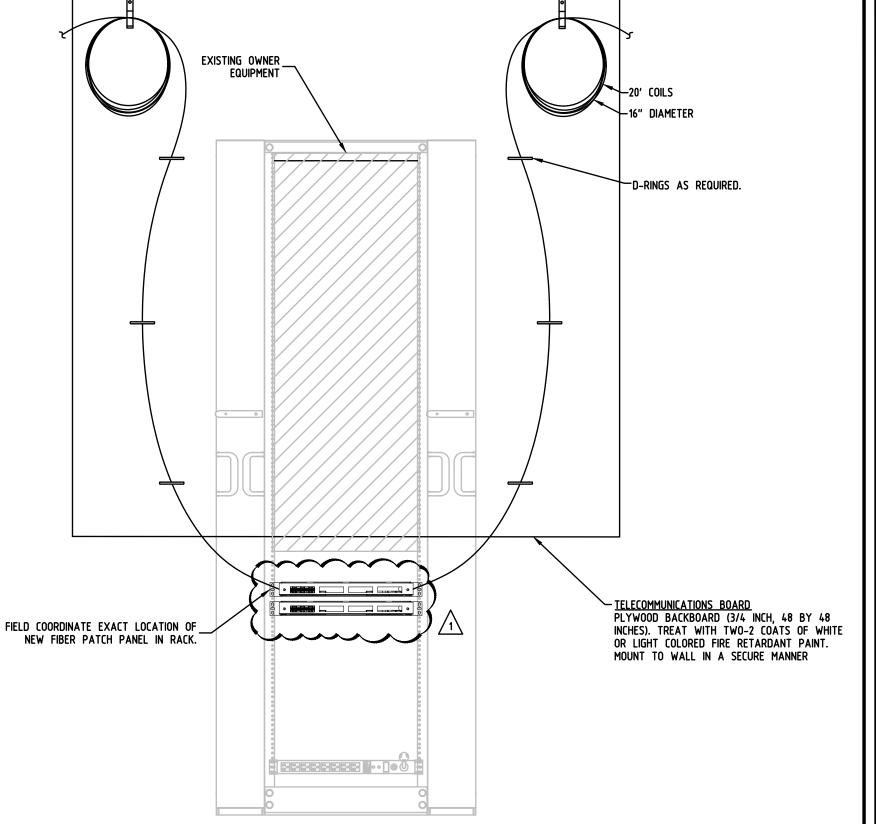
300 PAIR TELEPHONE

200 PAIR TELEPHONE

LEGEND

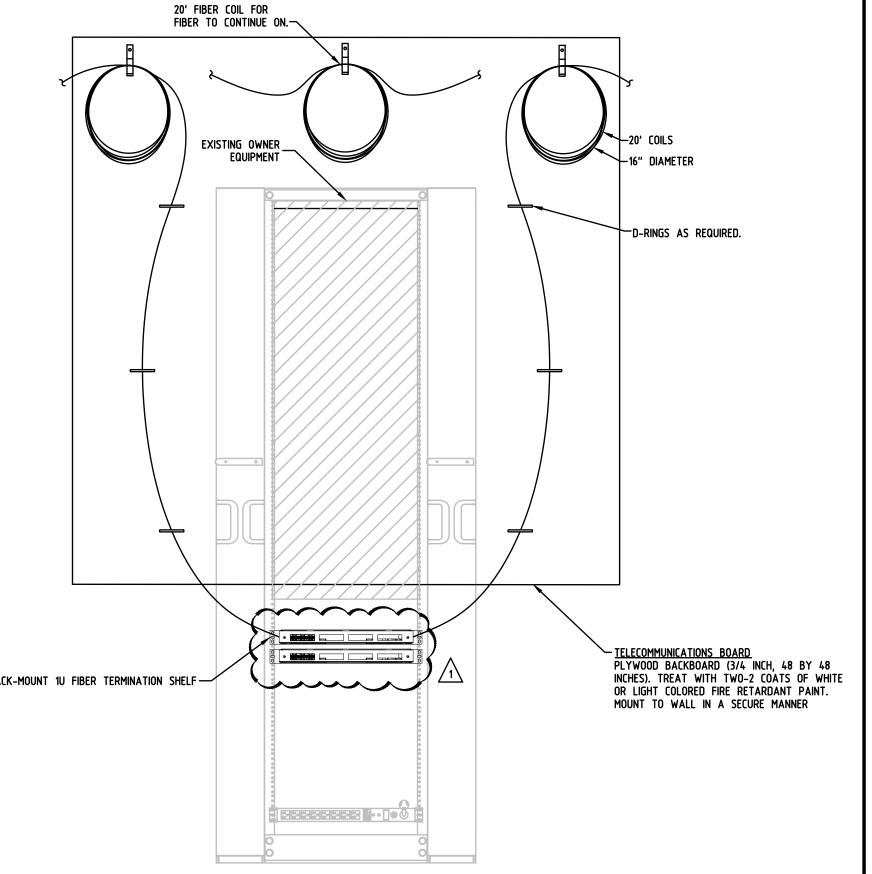
- 50 PAIR TELEPHONE 25 PAIR TELEPHONE
- FIBER OPTIC CABLE 4,5, AND 12 STRAND FIBER 1 - 1/4 INCH INNERDUCT
- 1 INCH INNERDUCT

FIBER OPTIC SINGLE MODE 48 STRAND FIBER



GENERAL DETAIL NOTES

- A. THIS DETAIL IS GENERIC IN NATURE & IS NOT INTENDED TO SHOW EVERY DETAIL. ADAPT TO ACTUAL SITE
- B. PROVIDE INSTALLATION/MOUNTING HARDWARE & SECURE PER MFTR.
- TO COMM ROOM FIBER BACKBONE EQUIPMENT ELEVATION DETAIL



GENERAL DETAIL NOTES

DUCT BANK FROM ROOM MH#9 TO MH#10

- A. THIS DETAIL IS GENERIC IN NATURE & IS NOT INTENDED TO SHOW EVERY DETAIL. ADAPT TO ACTUAL SITE
- B. PROVIDE INSTALLATION/MOUNTING HARDWARE & SECURE PER MFTR.
- C. PROVIDE INNERDUCTS TO PROTECT THE BACKBONE FIBER CABLES FROM POINT OF ENTRY INTO THE ROOM TO THE COILED LOOPS ON THE PLYWOOD.

COMM ROOM FIBER BACKBONE EQUIPMENT ELEVATION **WITH ADDITIONAL BACKBONE CABLE DETAIL**

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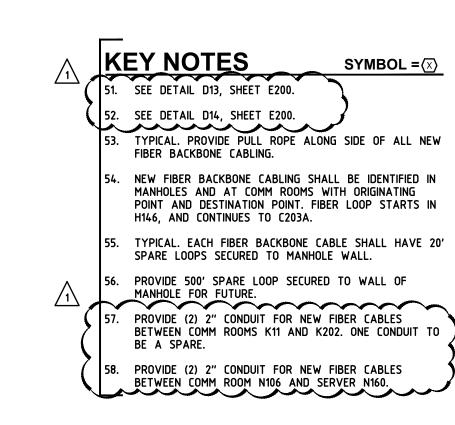
(C) ADVANCED ENGINEERING SYSTEMS

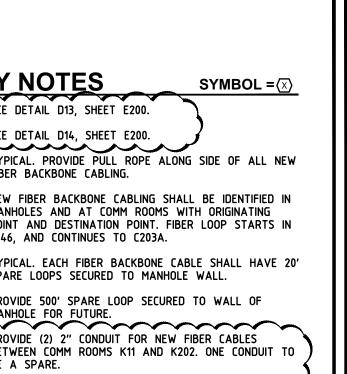
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FIBER DETAILS







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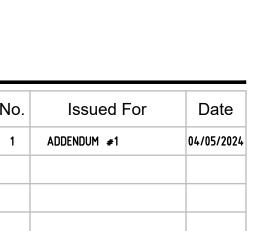
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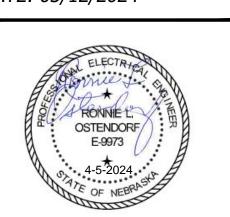
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FIBER ONE-LINE DIAGRAM & DETAILS

