



Addendum #1

Project: 20240606 - BL000A Site - Replace Section of 12470V Circuit 104 and 106

Date: November 25, 2025

This Addendum, issued prior to bidding, alters, amends, corrects, or clarifies the Construction Bid Documents to the extent stated herein and does thereby become a part of the Construction Bid Documents, and will become part of the Contract Documents of the successful bidder. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

ITEMS INCLUDED IN THIS ADDENDUM

Item 1

Submit bids on the attached, revised bid form.

Item 2

See the attached drawing sheets.

Attachments

Revised bid form dated 11/25/25

Drawing Sheets E1 - E6

END OF ADDENDUM 1

REVISED per Addendum 1 dated 11/25/25**BID FORM**

for

BL000A - SITE - Replace Section of 12470V Circuit 104 and 106
Indiana University Bloomington
Bloomington, Indiana
IU 20240606

TO: The Trustees of Indiana University
Bloomington, Indiana

****Submit bid online via www.iuplanroom.com****

FROM:

Bidder's Name _____

Address _____

City, State, Zip Code _____

Phone Number _____ FAX Number _____

CONTACTS:

Bid / Contract Information: Name: _____

Phone: _____ E-mail: _____

Proposed Project Manager: Name: _____

Phone: _____ E-mail: _____

Indicate if your firm is a certified minority-, women-, or veteran-owned business ____ Yes ____ No

If “Yes”, please attach a copy of certification

FOR: **Unified Bid** to include General, Mechanical, and Electrical Construction Work

Bidders:

LUMP SUM BASE BID

The undersigned Bidder, with a complete understanding of existing conditions at the Project Site and a complete understanding of the Bidding Documents, including any Addenda acknowledged hereinafter, for 20240606 – BL000A Site – Replace Section of 12470V Circuit 104 and 106 on the Indiana University Bloomington campus, as prepared by IU Capital Projects, hereby proposes to complete the project, in full and complete accordance with the requirements of the Bidding documents, for the LUMP SUM BASE BID PRICE of:

_____ Dollars \$ _____
(written amount) (numerals)

MAJOR SUBCONTRACTORS

Subcontractors and other persons and organizations proposed by the Bidder and accepted by the Owner and the Owner's Representative must be used on the work for which they were proposed and accepted and shall not be changed except with the written approval of the Owner and the Owner's Representative.

If requested, the supplemental Subcontractors and Products List will be submitted by email to the Owner at bidtab@iu.edu within 48 hours of the bid opening. The understanding of the Owner and the design team is that these same Major Subcontractors will be the same subcontractors listed below.

The Contractor proposes to utilize the following primary subcontractors for the work indicated.

List one major subcontractor per trade. Any deviation could result in the Owner removing the bid from consideration.

Indicate which are certified by the State of Indiana as an MBE, WBE, or VBE company by circling the M/W/VBE after the name.

Trade: Electrical Subcontractor: _____ M/W/VBE

Trade: NETA Acceptance Testing Subcontractor: _____ M/W/VBE

Trade: _____ Subcontractor: _____ M/W/VBE

Trade: _____ Subcontractor: _____ M/W/VBE

Trade: _____ Subcontractor: _____ M/W/VBE

ALTERNATE PROPOSALS

1. Alternate proposals are requested under Alternates of the Bidding Documents. (See Specification Index)
2. The alternate proposal shall indicate the amount to be added to or deducted from the Lump Sum Base Bid if the alternate proposal is accepted by the Owner.
3. The alternate proposal shall include all costs necessary for the complete installation of the materials or items indicated for the alternate proposal, including materials, labor, equipment, operations, administration, overhead, profit, and taxes (as applicable).
4. The alternate proposal shall also include all costs for changes in the work (including work of other Separate Contracts) that will be made necessary by acceptance of the alternate proposal.
5. The Bidder shall submit prices for all the alternates listed below in the manner indicated. Cross out (Add) or (Deduct) as applicable. If there is no change in price to the Lump Sum Base Bid, write in "No Change".

Alternate No. 1: Replace addition section of 104 circuit

(Add) (Deduct) _____ Dollars \$ _____
(written amount) (numerals)

Alternate No. 2: Add modular splices to 4160 circuit 4B

(Add) (Deduct) _____ Dollars \$ _____
(written amount) (numerals)

UNIT PRICES

1. The following Unit Prices shall include all costs necessary for the complete installation of the materials or items indicated, including materials, labor, equipment, operations, administration, overhead, profit and taxes (if applicable).
2. These Unit Prices shall be used to determine the costs for changes in the work during the construction period, when agreed upon by the Owner.
3. These Unit Prices are submitted as a price per unit of measurement for materials or services added to or deducted from the Contract Sum by appropriate modification, if estimated quantities of Work required by the Contract Documents are increased or decreased.
4. The Bidder shall submit one Unit Price for each of the following items, plus any other Unit Prices requested in the Bidding Documents, in the manner indicated.

	<u>Item</u>	<u>Unit</u>	<u>Price</u>
1.	Adding modular splices to existing 350KCM cables - Set of 3		\$ _____
2.	Adding modular splices to existing 500KCM cables - Set of 3		\$ _____

TAX EXEMPTIONS

The undersigned Bidder has informed himself and all his prospective sub-contractors and suppliers of the tax-exempt status of the Owner, as set forth in the General Conditions, and therefore, has not included these taxes in his Lump Sum Base Bid price.

SUBSTITUTIONS

The undersigned Bidder has based his bid upon the materials, products, articles, equipment, brands, manufacturers and processes described in the Bidding Documents or upon approved equivalents. Proof of equivalency of substitutions is the responsibility of the Bidder, but the Architect/Engineer shall be the sole judge of equivalency. Proposed equivalent substitutions shall be equal in all respects to the requirements of the Bidding Documents, including but not limited to the design, quality, physical size, performance characteristics, strength, previous history of use, and to the method of installation, attachment, or connection to related or adjoining work. Determination of equivalency of proposed substitutions shall be by the Architect/Engineer, before the bid opening date, as described in paragraph entitled "Substitutions" in the Instructions to Bidders.

COMPLETION DATE

The Undersigned Bidder agrees to coordinate and expedite his work and shall take into consideration any lead time and schedule parameters with all contractors, and that this Work will be completed no later than **July 31, 2026**.

ASSIGNMENT OF COORDINATION

The undersigned Bidder agrees to the assignment of Mechanical and Electrical work to the successful General Contractor for the responsibility of complete coordination of the work as stated in the Instructions to Bidders.

PERFORMANCE AND PAYMENT BOND

The undersigned Bidder agrees, if awarded the Contract, to deliver to the Owner a satisfactory Performance Bond, in the full amount (100%) of the total Contract price, not later than the date of execution of the contract. The cost of the Bond shall be included in the Lump Sum Base Bid contained in this Proposal.

SUPPLEMENTAL AND REQUIRED DOCUMENTS

Bid Security; State Form 96 (Revised 2013); Written Drug Testing Program, which must be in full compliance with IC 4-13-18; a completed Minority, Women's and Veteran's Business Enterprise Participation Plan; Contractor Asbestos Certification; Asbestos Protocol for Contractors.

ADDENDA

The following Addenda have been received by the undersigned Bidder; and all costs resulting from these Addenda have been included in the preparation of this Bid Form:

Addendum No. _____	Dated _____
Addendum No. _____	Dated _____
Addendum No. _____	Dated _____

SIGNATURES

1. **When a Bidder is an Individual:**

_____	_____
Witness	Bidder
Date: _____	Address: _____

2. **When a Bidder is a Partnership:**

_____	_____
	Name of Partnership
Date: _____	Address: _____

_____	_____
Partner	Partner

3. **When Bidder is a Corporation:**

_____	_____
	Name of Corporation
Date: _____	Address: _____

	By: _____
	President
Attest: _____	
Secretary	

CORPORATE SEAL

END

****Submit bid online via www.iuplanroom.com****

GENERAL NOTES:

- ATTEND WEEKLY CONSTRUCTION PROGRESS MEETINGS.
- A DETAILED PROJECT SCHEDULE INDICATING PROPOSED OUTAGES MUST BE SUBMITTED FOR REVIEW WITHIN ONE WEEK OF THE KICKOFF MEETING.
- ALL OUTAGES MUST BE SCHEDULED AND APPROVED AT LEAST 5 DAYS IN ADVANCE BY THE OWNER.
- SUBMIT THE FOLLOWING SHOP DRAWINGS FOR OWNER REVIEW: MEDIUM VOLTAGE CABLES, 600V CABLES, MV TERMINATIONS, MV MODULAR SPLICES, MV INLINE SPLICES, CABLE SUPPORTS, AND CABLE PULLING CALCULATIONS PREPARED BY CABLE MANUFACTURER FOR ALL CABLE PULLS.
- ONCE AN EXISTING CABLE IS CUT, PROCEED IN A WORKMAN LIKE MANNER TO COMPLETE THE WORK TO RESTORE THE CABLE TO OPERATION.
- REPAIR ALL DAMAGE TO LAWNS CAUSED BY THIS PROJECT.
- PROVIDE SIX FOOT FENCES WITH RED SCREENS AROUND ALL WORK AREAS AS REQUIRED.
- AT THE MANHOLES PERFORM THE FOLLOWING:
 - PUMP WATER FROM MANHOLES AS NECESSARY.
 - CLEAN UP ANY DEBRIS IN MANHOLES BEFORE YOU START WORK AND AFTER WORK IS COMPLETE.
 - ALL METAL PARTS IN MANHOLES, E.G. LID, RING, FRAME AND SUPPORT, LADDER, AND ETC., SHALL BE BONDED TO GROUND ROD AND DUCTBANK GROUND CONDUCTOR WITH A MINIMUM #4 AWG 600V THWN CONDUCTOR. REPLACE ALL EXISTING BONDING CONDUCTORS AND GROUND RODS IN THE MANHOLES AS REQUIRED.
 - ALL GROUND CONNECTIONS SHALL BE CADWELD OR IRREVERSIBLE COMPRESSION TYPE SUCH AS BY BURNDY OR AN OWNER APPROVED EQUIVALENT. MECHANICAL CONNECTIONS ARE NOT ACCEPTABLE. REPLACE EXISTING CONNECTIONS AS REQUIRED.
 - REPLACE ALL METAL CABLE SUPPORTS WITH NON-METALLIC CABLE SUPPORTS SUCH AS THOSE BY UNDERGROUND DEVICES, INC. OR OWNER APPROVED EQUAL. SUPPORTS SHALL BE SPACED AT A MAXIMUM OF 30 INCHES ON CENTER OR AS NEEDED TO PREVENT CABLE SAGGING. PROVIDE A MINIMUM OF 12 INCHES VERTICALLY BETWEEN CABLE SUPPORTS.

- 15 KV CABLES SHALL BE SINGLE CONDUCTOR TYPE RATED MV-105, 133% INSULATION LEVEL (220 MILS) COMPOSED OF CLASS B COMPRESSED OR COMPACT STRANDED COPPER CONDUCTOR, EXTRUDED SEMI-CONDUCTOR SHIELD, ETHYLENE PROPYLENE (EPR) INSULATION COMPLYING WITH ICEA S-93-639 AND CABLE TRAY RATED. PROVIDE A COMBINATION INSULATION SHIELD AND JACKET CONSISTING OF 25% OVERLAPPED ANNEALED COPPER TAPE RIBBON (MINIMUM 5 MIL THICK) EMBEDDED IN EXTRUDED NON-CONDUCTING PVC OR CHLORINATED POLYETHYLENE (CPE). CABLE SIZE SHALL BE 500KCM UNLESS OTHERWISE INDICATED. CABLE SHALL BE SEALED AGAINST LONGITUDINAL WATER PENETRATION AT 5 PSI WATER PRESSURE PER ICEA T-31-610. CABLES SHALL BE STORED AND INSTALLED PER THE MANUFACTURES RECOMMENDATION. CABLE REELS SHALL BE STORED INDOORS AT 55°F OR HIGHER UNTIL NEEDED AT THE JOBSITE WHERE THEY WILL BE KEPT INSIDE A HEATED TENT UNTIL JUST BEFORE THE START OF PULLING CABLES. APPROVED MANUFACTURERS OF MEDIUM VOLTAGE CABLE ARE GENERAL CABLE, PRYSMAN CABLES & SYSTEMS, OKONITE AND SOUTHWIRE.

- INSTALL A 600V THWN (OR THW) INSULATED GROUND CONDUCTOR WITH EACH CIRCUIT INSTALLED IN THE SAME CONDUIT. GROUND CONDUCTOR SIZE SHALL BE #4/O AWG UNLESS OTHERWISE NOTED. A GREEN JACKET IS NOT REQUIRED.

- TERMINATION AND SPlicing OF CABLES SHALL BE BY UTILIZING MANUFACTURED KITS. TERMINATIONS AND SPLICES SHALL BE INSTALLED BY JOURNEYMAN ELECTRICIANS WHO HAVE BEEN TRAINED BY THE MANUFACTURER FOR THE TYPE OF EQUIPMENT INSTALLED. SUBMIT TRAINING RECORDS. COMPRESSION TYPE SLEEVES AND LUGS, SPECIFICALLY LISTED FOR USE ON MEDIUM VOLTAGE SYSTEMS, SHALL BE USED TO SPLICE OR TERMINATE CONDUCTORS. 3M COLD SHRINK QT-III INDOOR AND OUTDOOR 15KV, 110KV BIL TERMINATIONS SHALL BE USED. MODULAR PULLING SYSTEMS SHALL COMPLY WITH ANSI/IEEE STD. 386 - SEPARABLE INSULATED CONNECTOR SYSTEMS. ELASTIMOLD 600 SERIES WITH VOLTAGE TEST POINT, AND USE OF SPANNER WRENCHES TO TIGHTEN. USE OF HEX HEAD SCREWS TO TIGHTEN CONNECTION IS NOT ACCEPTABLE. EQUIVALENTS BY HUBBELL OR RICHARDS MANUFACTURING ARE ALSO APPROVED. ABANDONED FEEDERS OR CIRCUIT TAPS THAT REMAIN ENERGIZED AS A RESULT OF PROJECT WORK SHALL BE TERMINATED WITH A MODULAR SPLICE OR LIVE END SEAL KITS LIKE RAYCHEM TYPE HVES. INLINE SPLICES SHALL BE 3M QS-III 5500 SERIES. USE OF INLINE SPLICES SHALL BE USED ONLY WITH OWNERS EXPLICIT, WRITTEN APPROVAL.

- INSTALL THE CABLES IN ACCORDANCE WITH TEE S76 AND AS FOLLOWS:
 - PROOF CONDUITS PRIOR TO CONDUCTOR INSTALLATION BY PASSING A WIRE BRUSH MANDEL AND THEN A RUBBER DUCT SWAB THROUGH THE CONDUIT. SEPARATE THE WIRE BRUSH AND THE RUBBER SWAB BY 48 TO 72 INCHES (1200 TO 1800 MM) ON THE PULL ROPE.
 - *WIRE BRUSH MANDEL: CONSISTS OF A LENGTH OF BRUSH APPROXIMATELY THE SIZE OF THE CONDUIT INNER DIAMETER WITH STIFF STEEL BRISTLES AND AN EYE ON EACH END FOR ATTACHING THE PULL ROPES. IF AN OBSTRUCTION IS FELT, PULL THE BRUSH BACK AND FORTH REPEATEDLY TO BREAK UP THE OBSTRUCTION.
 - *RUBBER DUCT SWAB: CONSISTS OF A SERIES OF RUBBER DISCS APPROXIMATELY THE SIZE OF THE CONDUIT INNER DIAMETER ON A LENGTH OF STEEL CABLE WITH AN EYE ON EACH END FOR ATTACHING THE PULL ROPES. PULL THE RUBBER DUCT SWAB THROUGH THE DUCT TO EXTRACT LOOSE DEBRIS FROM THE DUCT.
 - DISTANCES BETWEEN MANHOLES AND/OR PRIMARY SWITCHES INDICATED ON THE DRAWINGS AS A REFERENCE. CONTRACTOR IS RESPONSIBLE FOR DETERMINE THE LENGTHS OF CABLES REQUIRED.
 - USE A MANUFACTURER APPROVED PULLING LUBRICANT THAT WILL NOT DETERIORATE INSULATION AS REQUIRED.
 - USE A RECORDING TYPE DYNAMOMETER TO RECORD PULLING TENSION. MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSION AND SIDE WALL PRESSURE SHALL NOT BE EXCEEDED. SUBMIT RECORDS TO OWNER.
 - ALL CONDUCTORS IN A CONDUIT MUST BE PULLED SIMULTANEOUSLY, INCLUDING THE GROUND CONDUCTOR.
 - WHEN INSTALLING CABLE USE PULLING EYES CONNECTED TO EACH CONDUCTOR IN LIEU OF PULLING "BASKETS" WHICH GRIP THE OUTER JACKET OF CABLE. STEEL CABLE OR OTHER PULLING MEANS THAT CAN DAMAGE THE CONDUITS SHALL NOT BE USED TO PULL IN THE CABLES.
 - SEAL OPEN ENDS OF CABLES USING A RAYCHEM CABLE END SEAL TO PREVENT ENTRANCE OF MOISTURE IF CABLES ARE NOT SUPPLIED BY MANUFACTURER CUT TO LENGTH. TAPING OF CABLE ENDS IS NOT ACCEPTABLE.
 - CABLE SHALL BE PULLED IN AS A CIRCUIT OFF SPOOLS AND NOT LAID OUT ON THE GROUND.
 - CABLES SHALL TAKE THE LONGEST ROUTE AROUND THE MANHOLE TO ALLOW SLACK FOR FUTURE USE. IN ALL CASES, ADEQUATE SLACK FOR FUTURE SPLICES SHALL BE PROVIDED IN THE CABLE ROUTING. OWNER SHALL APPROVE FINAL CABLE ROUTING.
 - REMOVE ENDS OF CABLES DAMAGED BY THE PULLING PROCESS.
 - ONLY INSTALL SPLICES AS INDICATED ON THE DRAWINGS OR APPROVED BY THE OWNER. REMOVE ALL EXISTING SPLICES IN THE MANHOLE FROM THE EXISTING CABLE BEING SPLICED TO A NEW CABLE.
 - GROUND SHIELDS OF SHIELDED CABLE AT TERMINATIONS, SPLICES AND MODULAR SPLICES.
 - CABLES SHALL BE WRAPPED AS A CIRCUIT WITH FIRE PROOFING TAPE IN MANHOLES AND JUNCTION BOXES. WHERE INSTALLED, MODULAR TEES SHALL NOT BE FIRE TAPED. SCOTCH 77 FIREPROOFING TAPE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND SPIRALLY OVERWRAPPED WITH 1/2" SCOTCH 69 GLASS CLOTH ELECTRICAL TAPE ON 6" CENTERS IS APPROVED FOR THIS USE.

- CABLE TESTING SHALL BE PERFORMED BY AN INDEPENDENT, THIRD PARTY, OWNER APPROVED TESTING AGENCY. THE TESTING AGENCY'S FIELD SUPERVISOR SHALL BE CURRENTLY CERTIFIED BY INTERNATIONAL ELECTRICAL TESTING ASSOCIATION OR NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES TO SUPERVISE ON-SITE ELECTRICAL TESTING. THIS PERSON'S RESUME MUST BE SUBMITTED TO OWNER FOR APPROVAL.
 - CABLES SHALL BE TESTED THREE TIMES.
 - MEGGAR TEST CABLE ON REELS AT 5000VDC FOR ONE MINUTE. (CAN BE DONE BY CONTRACTOR)
 - AFTER THE INSTALLATION OF NEW CABLE IN CONDUIT OR DUCTBANK, AND PRIOR TO TERMINATION, CABLES SHALL AGAIN BE MEGGAR TESTED AT 5000VDC FOR ONE MINUTE. (CAN BE DONE BY CONTRACTOR)
 - AFTER TERMINATION AND SPLICE KITS ARE INSTALLED THE FOLLOWING TESTS SHALL BE CONDUCTED IN ACCORDING TO CURRENT INTERNATIONAL ELECTRICAL TESTING ASSOCIATION (INETA) ACCEPTANCE TEST STANDARDS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
 - THE NEW CABLE SHALL BE DC HI-POT TESTED. THIS TEST SHALL NOT TO EXCEED 80% OF FACTORY TEST VALUE. MAINTAIN THE FINAL TEST VOLTAGE LEVEL APPLIED TO THE CABLE FOR 10 MINUTES. EXISTING CABLE SHALL NOT BE HI-POT TESTED.
 - THE CABLE SHALL BE TESTED USING THE TAN DELTA METHOD (NOT APPLICABLE TO CABLE SEGMENTS LESS THAN 100 FEET).
 - RECORD AND SUBMIT ALL TEST RESULTS TO THE OWNER FOR APPROVAL PRIOR TO ENERGIZATION. THE FOLLOWING INFORMATION SHALL BE INCLUDED ON TEST REPORTS: DATE, PROJECT, CIRCUIT IDENTIFICATION, CABLE MANUFACTURER, INSULATION RATING, CONDUCTOR SIZE, TEMPERATURE AND HUMIDITY AT TIME OF TEST, VOLTAGE INCREMENTS, STABILIZATION TIME, LEAKAGE CURRENT AT FINAL TEST VOLTAGE AFTER 10 MINUTES, TEST GRAPHS, MEGOHM METER READINGS, AND NAMES AND MODEL NUMBERS OF INSTRUMENTS USED. IF ANY SINGLE CABLE FAILS TESTING, ALL THREE CABLES IN RACEWAY SYSTEM SHALL BE REPLACED AND THEN RETESTED PER THE ABOVE REQUIREMENTS. DISCONNECT AND RECONNECT INSTRUMENT TRANSFORMERS AND LIGHTNING ARRESTORS AS REQUIRED FOR THE ACCEPTANCE TESTING.

- FURNISH AND INSTALL NEW ENGRAVED THREE-LAYER LAMINATED NAMEPLATES ON ALL MEDIUM VOLTAGE CABLES IN EACH MANHOLE. SUBMIT PROPOSED TEXT TO OWNER FOR APPROVAL BEFORE FABRICATING THE NAMEPLATES. THE TEXT SHALL BE 1.5 INCHES TALL AND BLACK ON A WHITE BACKGROUND. ALL NAMEPLATES SHALL BE THE SAME LENGTH AND HAVE A MINIMUM LENGTH OF 6 INCHES. THE NAMEPLATES SHALL BE ATTACHED VIA TWO

- (2) SUNLIGHT RESISTANCE NON CONDUCTING WIRE TIES. INSTALL THE NAMEPLATES SO THEY CAN BE READ FROM SOMEONE STANDING AT THE BOTTOM OF THE MANHOLE LADDER OR AS APPROVED BY OWNER.
- FOR ANY DUCTS DETERMINED TO BE UNUSABLE FURNISH AND INSTALL A ENGRAVED THREE-LAYER LAMINATED PLASTIC NAMEPLATE WITH WORD "BLOCKED" IN BLACK 1.5 INCH LETTERS ON A WHITE BACKGROUND AT EACH MANHOLE OVER TOP OF END BELLS.
- SEAL ALL UNUSED DUCTS WITH A CARLON 5" BLANK DUCT PLUG OR OWNER APPROVED EQUIVALENT.
- GENERATOR CONNECTION AND DISCONNECTION WILL BE AFTER HOURS.
 - INCLUDE 6" CHAIN LINK FENCE AROUND GENERATOR(S) WITH FABRIC SCREEN COLOR-PANTONE 201.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE CITY OF BLOOMINGTON TO ARRANGE ANY CITY ROAD/ALLEY/SIDEWALKS SHUT DOWNS THAT MAY BE REQUIRED AND PAY ANY ASSOCIATED FEES.

SCOPE OF WORK:

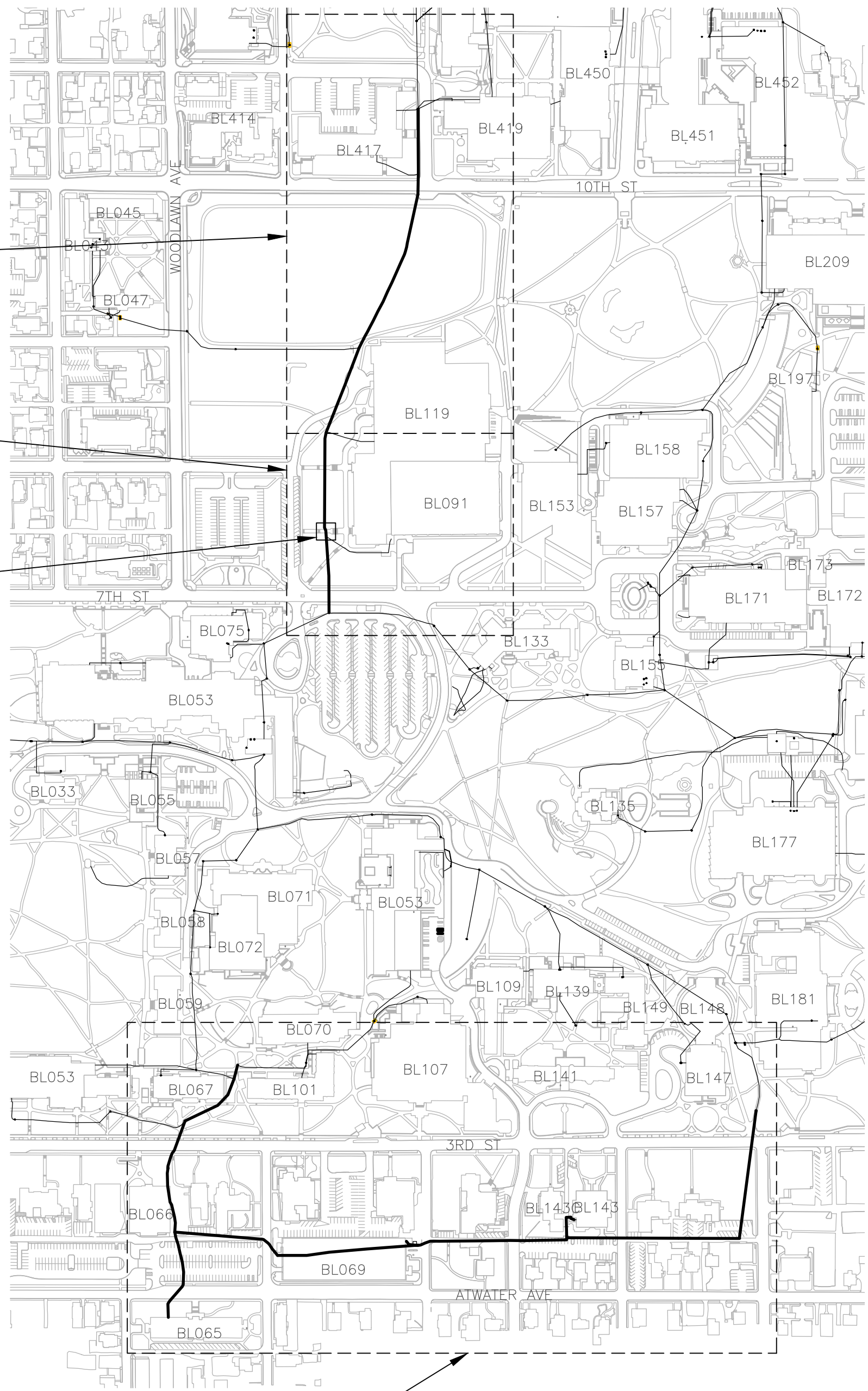
- WHEN SCHEDULING:
- PLAN FOR A MINIMUM OF (2) 8-HOUR SHIFTS EACH WORKING DAY.
 - WORK WEEKENDS AND PLAN OUTAGES TO MINIMIZE TIME THAT BUILDINGS ARE ON THE GENERATORS.

- REPLACE SECTIONS OF CIRCUIT 106--
- REMOVE EXISTING CABLE FOR CIRCUIT 106 FROM MANHOLE(MH) E-39-J TO MH E-24-M.b AND FROM SG2 TO BL143 AND BL069 TRANSFORMERS.
 - FURNISH AND INSTALL NEW CABLE FOR CIRCUIT 106 FROM MH E-39-J TO MH E-24-M.b AND FROM SG2 TO BL143 AND BL069 TRANSFORMERS.
 - REMOVE EXISTING INLINE SPLICES, FURNISH AND INSTALL MODULAR SPLICE BETWEEN NEW SECTION OF CABLE AND EXISTING SECTION OF CABLE FOR CIRCUIT 106 IN MH E-39-J, MH E-23-L AND MH E-24-M.b.
 - FURNISH AND INSTALL MODULAR SPLICES OR TEES IN OTHER LOCATIONS AS REQUIRED FOR CABLE INSTALLATION. REVIEW LOCATIONS WITH IU ENGINEERING PRIOR TO CONSTRUCTION.
 - FURNISH GENERATORS (FUEL, CABLES, AND MAINTENANCE INCLUDED) TO PROVIDE POWER TO BUILDINGS: BL027/061 SWAIN BUILDINGS, BL065 OPTOMETRY SCHOOL, BL143 MUSIC PRACTICE, BL069 ATWATER PARKING GARAGE, BL101 MYERS HALL, BL107 BIOLOGY ADDITION BUILDING, AND BL111 BALLANTINE HALL DURING OUTAGES AS REQUIRED TO REPLACE CABLES.
 - UPGRADE GROUNDING IN SG2. ALSO INSPECT CONDITION OF THE GROUNDING AND CABLE SUPPORT ARMS IN THE MAN HOLES USED FOR THIS PROJECT AND UPGRADE AS REQUIRED. SEE GENERAL NOTES #8.d-e.
 - WORK IN MH E-29-H MUST HAPPEN ON A WEEKEND AND THE ATWATER PARKING GARAGE WILL NEED TO STAY IN OPERATION. COORDINATE WITH OWNER AND CITY TO RESTRICT LANES AS REQUIRED FOR SAFETY AND TO MAINTAIN GARAGE ACCESS.

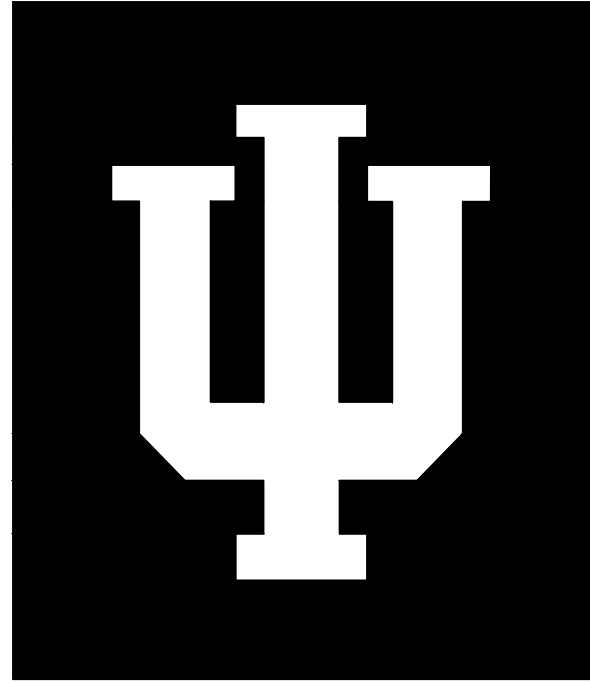
- REPLACE SECTIONS OF CIRCUIT 104--
- REMOVE EXISTING CABLE FOR CIRCUIT 104 FROM MH E-27-EE TO MH E-29-NN.
 - FURNISH AND INSTALL NEW CABLE FOR CIRCUIT 104 FROM MH E-27-EE TO MH E-29-NN.
 - FURNISH AND INSTALL MODULAR SPLICES BETWEEN NEW SECTION OF CABLE AND EXISTING SECTIONS OF CABLE FOR CIRCUIT 104 IN MH E-27-EE AND MH E-29-NN.
 - FURNISH AND INSTALL MODULAR SPLICES OR TEES IN OTHER LOCATIONS AS REQUIRED FOR CABLE INSTALLATION. REVIEW LOCATIONS WITH IU ENGINEERING PRIOR TO CONSTRUCTION.
 - PROVIDE EXTRA CABLE FOR CIRCUIT 104 IN MH E-28-GG BY LOOPING THE MANHOLE TWO TIMES.
 - INSPECT CONDITON OF THE GROUNDING AND CABLE SUPPORT ARMS IN THE MAN HOLES USED FOR THIS PROJECT AND UPGRADE AS REQUIRED. SEE GENERAL NOTES #8.d-e.
 - FURNISH GENERATORS (FUEL, CABLES, AND MAINTENANCE INCLUDED) TO PROVIDE POWER TO BUILDINGS: BL091/119 FIELDHOUSE/SPH, BL047 SMITH HALL, BL043 EDMONDSON HALL, BL075 ERNIE PYLE HALL, BL133 WOODBURN HALL, BL135 BRYAN HOUSE, BL155 LILLY LIBRARY, BL171 AUDITORIUM, BL417 GEOLOGICAL SCIENCES, AND BL419 PSYCHOLOGY DURING OUTAGES AS REQUIRED TO REPLACE CABLES.

- ALTERNATE 1: REPLACE ADDITIONAL SECTIONS OF CIRCUIT 104--
- REMOVE EXISTING CABLE FOR CIRCUIT 104 FROM MH E-27-EE TO MH E-27-Z.
 - FURNISH AND INSTALL NEW CABLE FOR CIRCUIT 104 FROM MH E-27-EE TO MH E-27-Z.
 - FURNISH AND INSTALL MODULAR SPLICES BETWEEN NEW SECTION OF CABLE AND EXISTING SECTIONS OF CABLE FOR CIRCUIT 104 IN MH E-27-Z.
 - FURNISH AND INSTALL MODULAR SPLICES OR TEES IN OTHER LOCATIONS AS REQUIRED FOR CABLE INSTALLATION. REVIEW LOCATIONS WITH IU ENGINEERING PRIOR TO CONSTRUCTION.
 - INSPECT CONDITON OF THE GROUNDING AND CABLE SUPPORT ARMS IN THE MAN HOLES USED FOR THIS PROJECT AND UPGRADE AS REQUIRED. SEE GENERAL NOTES #8.d-e.
 - FURNISH GENERATORS (FUEL, CABLES, AND MAINTENANCE INCLUDED) TO PROVIDE POWER TO BUILDINGS: BL091/119 FIELDHOUSE/SPH, BL047 SMITH HALL, BL043 EDMONDSON HALL, BL075 ERNIE PYLE HALL, BL133 WOODBURN HALL, BL135 BRYAN HOUSE, BL155 LILLY LIBRARY, BL171 AUDITORIUM, BL417 GEOLOGICAL SCIENCES, AND BL419 PSYCHOLOGY DURING OUTAGES AS REQUIRED TO REPLACE CABLES.

- ALTERNATE 2: MODIFY 4160V CIRCUIT 4B
- INSTALL MODULAR SPLICES ON CIRCUIT 4B IN MAN HOLE E-27-BB. FURNISH AND INSTALL INSULATED END CAPS AS NEEDED DURING CONSTRUCTION.
 - REDUCE GENERATOR RUN TIME FOR BUILDINGS: BL075 ERNIE PYLE HALL, BL133 WOODBURN HALL, BL135 BRYAN HOUSE, BL155 LILLY LIBRARY, BL171 AUDITORIUM



INDIANA
UNIVERSITY



CAPITAL
PROJECTS

SERVICE BUILDING
2901 E. DISCOVERY PARKWAY
BLOOMINGTON, IN 47408-9650

CERTIFIED BY:

REVISIONS: ADDENDUM #1 - 11/25/2025

KEY PLAN:

PROJECT TITLE:

BLOOMINGTON
CAMPUS

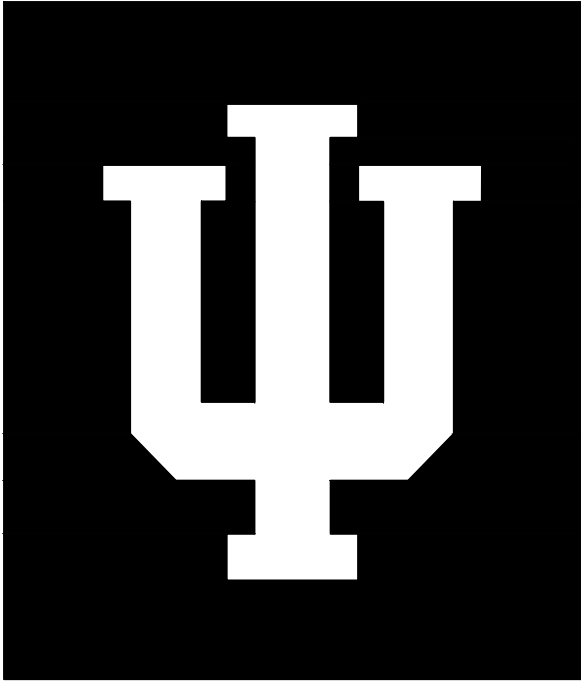
REPLACE SECTION OF
12470V CIRCUIT 106
AND CIRCUIT 104

SHEET TITLE:

ELECTRICAL SITE PLAN
SCOPE & GENERAL NOTES

DRAWN: NS	DATE: 11/13/2025
CHECKED BY: KP/LV	
WORK REQUEST NUMBER:	
MMS PROJECT NUMBER:	20240606
CAD FILE NAME:	20240606-E
TRACING INDEX NUMBER:	
CAMPUS: BL	BLOG. NUMBER: 000A
SHEET:	
E1	
OF 6 SHEETS	

INDIANA
UNIVERSITY



CAPITAL
PROJECTS

SERVICE BUILDING
2901 E. DISCOVERY PARKWAY
BLOOMINGTON, IN 47408-9650

CERTIFIED BY:

REVISIONS: ADDENDUM #1 - 11/25/2025

KEY PLAN:

PROJECT TITLE:

BLOOMINGTON
CAMPUS

REPLACE SECTION OF
12470V CIRCUIT 106
AND CIRCUIT 104

SHEET TITLE:

ELECTRICAL SITE PLAN
FOR CIRCUIT 106

DRAWN: NS DATE: 11/13/2025

CHECKED BY: KP/LV

WORK REQUEST NUMBER:

MMS PROJECT NUMBER: 20240606

CAD FILE NAME: 20240606-E

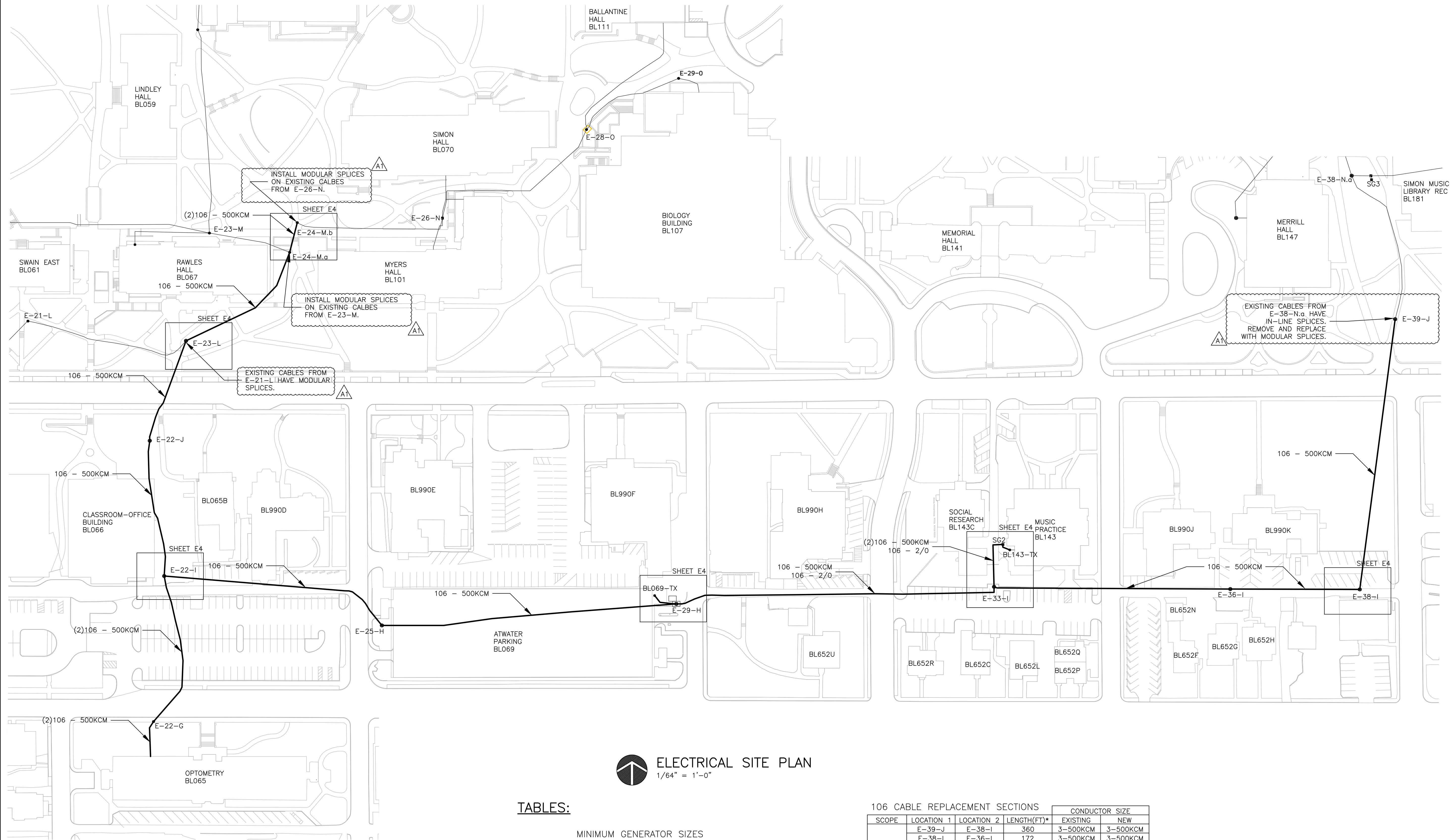
TRACING INDEX NUMBER:

CAMPUS: BL BLDG. NUMBER: 000A

SHEET:

E2

OF 6 SHEETS



ELECTRICAL SITE PLAN
1/64" = 1'-0"

TABLES:

MINIMUM GENERATOR SIZES

BL #	BL NAME	QUANTITY	V	P	KW
143	MUSIC PRACTICE	1	480	3	160
069	ATWATER GARAGE	1	480	3	100
065	OPTOMETRY	1	480	3	250
061	SWAIN	2	480	3	100
			208	3	100
107	BIOLOGY	2	480	3	1000*
			208	3	150
111	BALLANTINE	1	480	3	150
101	MYERS	1	480	3	500*

- * CONTRACTOR IS RESPONSIBLE FOR CONFIRMING BUILDINGS IMPACTED BY CONSTRUCTION AND ENSURING ALL IMPACTED BUILDINGS, HAVE CONTINUOUS POWER.
- * DOUBLE ENDED SUBSTATION - LOAD PROVIDED IS COMBINED TRANSFORMER LOADS. TIE BETWEEN WILL BE CLOSED TO PERMIT THE INSTALLATION OF ONE GENERATOR.

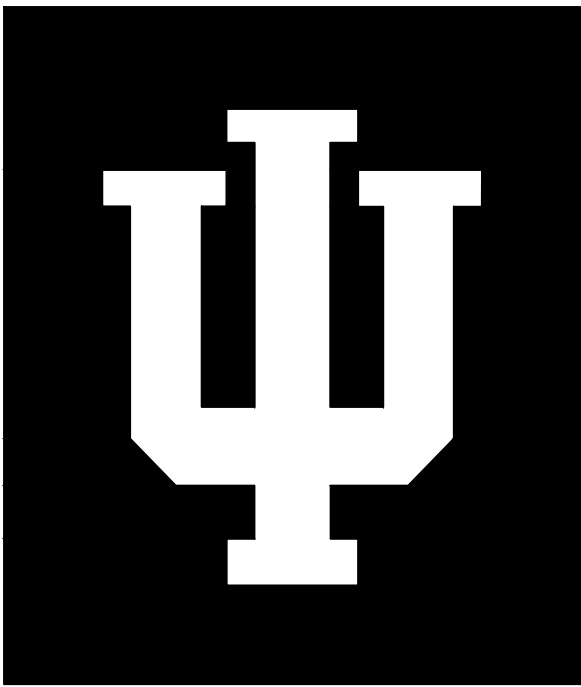
106 CABLE REPLACEMENT SECTIONS

SCOPE	LOCATION 1	LOCATION 2	LENGTH(FT)*	CONDUCTOR SIZE	
				EXISTING	NEW
BASE 106	E-39-J	E-38-I	360	3-500KCM	3-500KCM
	E-38-I	E-36-I	172	3-500KCM	3-500KCM
	E-36-I	E-33-I	312	3-500KCM	3-500KCM
	E-33-I	SG2 SW2	68	3-500KCM	3-500KCM
	SG2 SW1	E-33-I	68	3-500KCM	3-500KCM
	E-33-I	E-29-H	425	3-350KCM	3-500KCM
	E-29-H	E-25-H	390	3-350KCM	3-500KCM
	E-25-H	E-22-I	309	3-350KCM	3-500KCM
	E-22-I	E-22-G	209	3-350KCM	3-500KCM
	E-22-G	BL065 SW2	55	3-350KCM	3-500KCM
	BL065 SW1	E-22-G	55	3-350KCM	3-500KCM
	E-22-G	E-22-I	209	3-350KCM	3-500KCM
	E-22-I	E-22-J	181	3-350KCM	3-500KCM
	E-22-J	E-23-L	141	3-350KCM	3-500KCM
	E-23-L	E-24-M.a	189	3-350KCM	3-500KCM
	E-24-M.a	E-24-M.b	40	3-350KCM	3-500KCM
BASE XFMR FEEDS	E-24-M.a	E-24-M.b	40	3-350KCM	3-500KCM
	SG2 SW4	BL143 TX	15	3-#1/0	3-#2/0 **
	SG2 SW3	E-33-I	68	3-#1/0	3-#2/0 **
	E-33-I	E-29-H	425	3-#1/0	3-#2/0 **
	E-29-H	BL069 TX	33	3-#1/0	3-#2/0 **

* APPROXIMATE DISTANCES ONLY, BASED ON GIS COORDINATES. DOES NOT ACCOUNT FOR ELEVATION CHANGES. CONTRACTOR IS RESPONSIBLE FOR FIELD MEASURING CABLE LENGTHS.

** GROUND CONDUCTORS FOR #2/0 PHASE CONDUCTORS SHALL BE #2/0.

INDIANA
UNIVERSITY



CAPITAL
PROJECTS

SERVICE BUILDING
2901 E. DISCOVERY PARKWAY
BLOOMINGTON, IN 47408-9650

CERTIFIED BY:

REVISIONS: ADDENDUM #1 - 11/25/2025

KEY PLAN:

PROJECT TITLE:

BLOOMINGTON
CAMPUS

REPLACE SECTION OF
12470V CIRCUIT 106
AND CIRCUIT 104

SHEET TITLE:

ELECTRICAL SITE PLAN
FOR CIRCUIT 104

DRAWN: NS DATE: 11/13/2025

CHECKED BY: KP/LV

WORK REQUEST NUMBER:

MMS PROJECT NUMBER: 20240606

CAD FILE NAME: 20240606-E

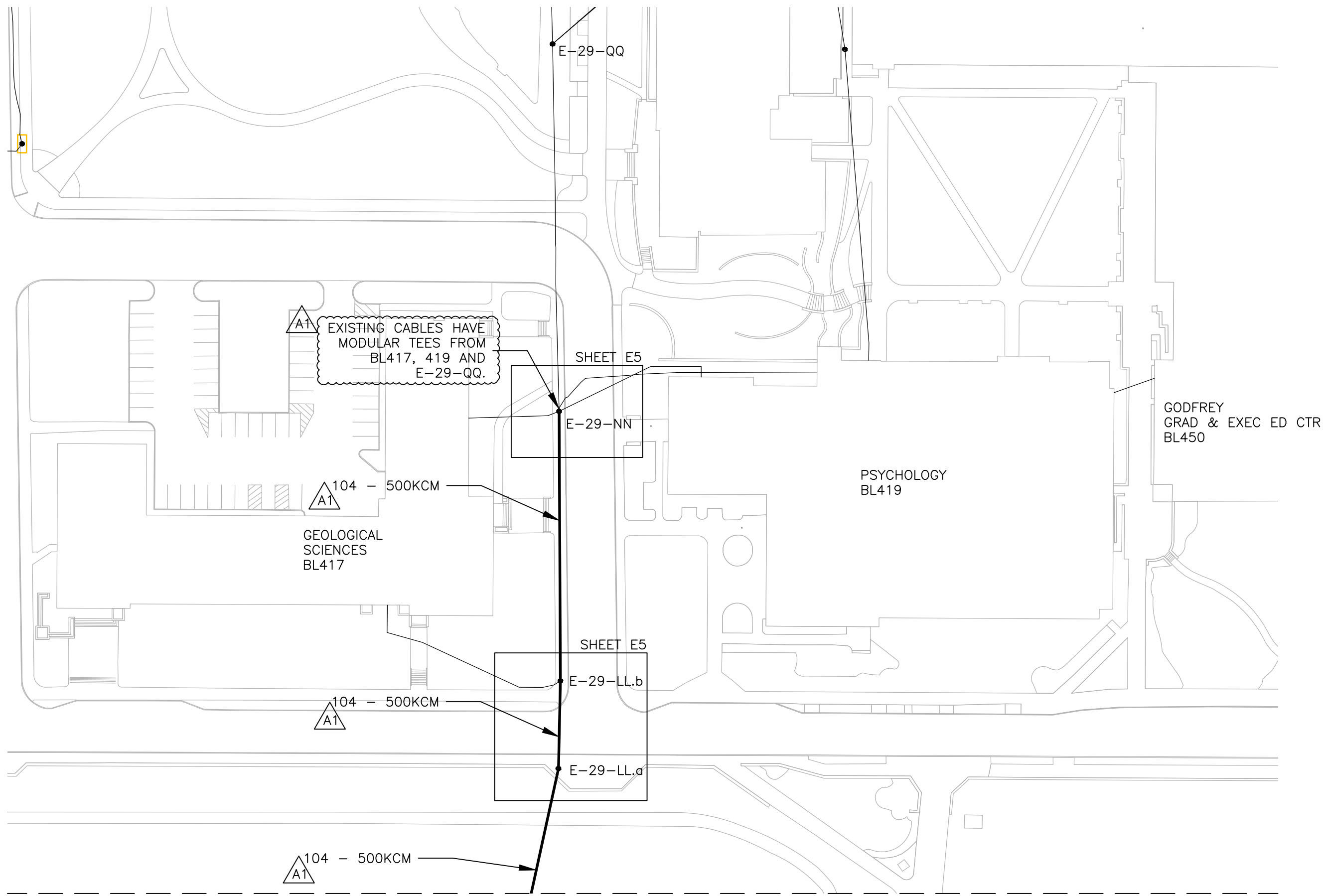
TRACING INDEX NUMBER:

CAMPUS: BL BLOG. NUMBER: 000A

SHEET:

E3

OF 6 SHEETS



TABLES:

MINIMUM GENERATOR SIZES

BL #	BL NAME	QUANTITY	V	P	KW
419	PSYCHOLOGY	1	480	3	500
417	GEOLOGICAL	1	480	3	250*
091/119	SPH/FIELDHOUSE	1	480	3	500*
047	SMITH HALL	1	480	3	50
043	EDMONDSON HALL	1	480	3	250
075	ERNIE PYLE HALL	1	480	3	200
133	WOODBURN HALL	1	480	3	150
155	LILLY LIBRARY	1	480	3	250
171	AUDITORIUM	2	480	3	200
			208	3	250
135	BRYAN HOUSE	1	240	1	150

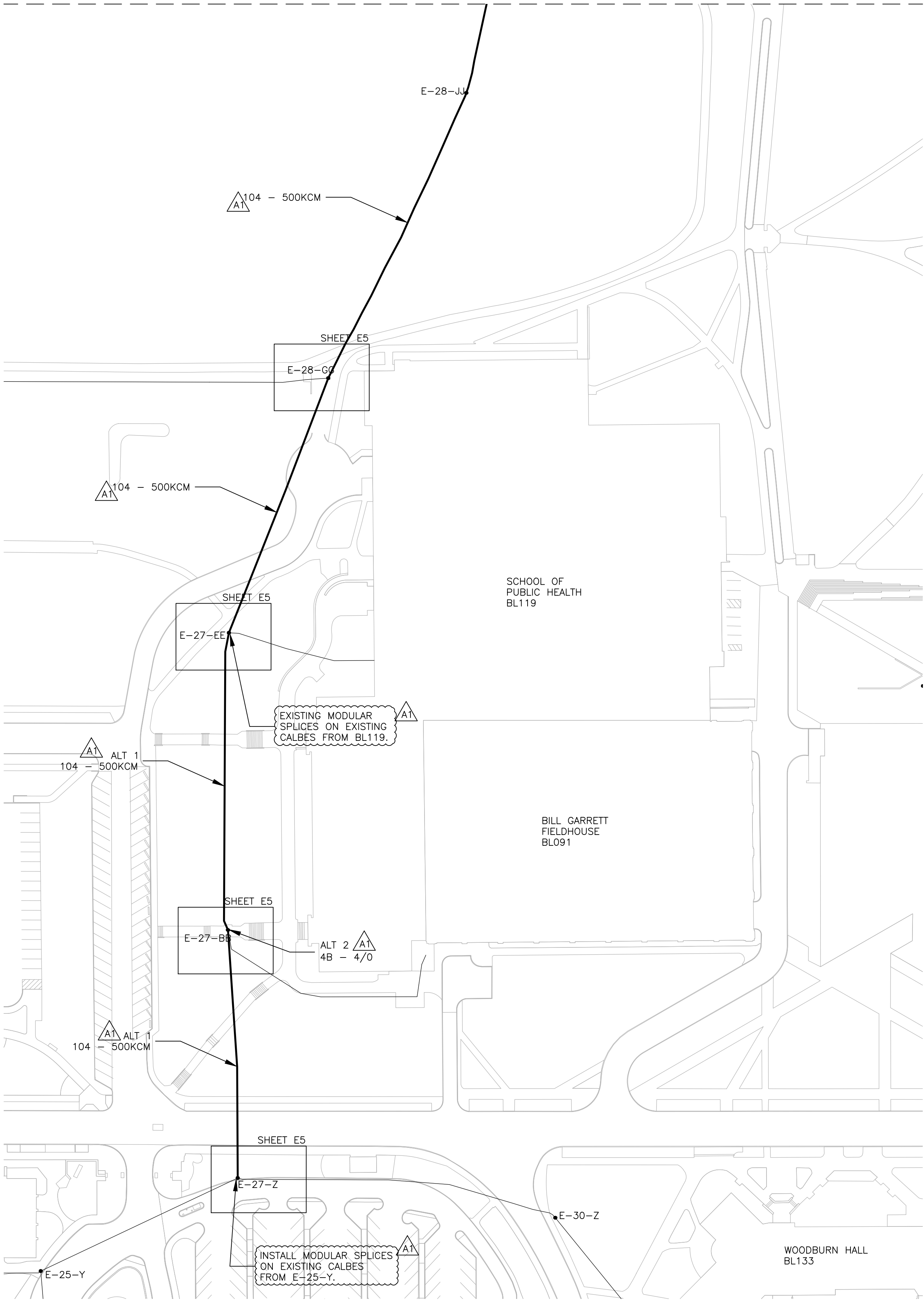
• CONTRACTOR IS RESPONSIBLE FOR CONFIRMING BUILDINGS IMPACTED BY CONSTRUCTION AND ENSURING ALL IMPACTED BUILDINGS, HAVE CONTINUOUS POWER.

* DOUBLE ENDED SUBSTATION - LOAD PROVIDED IS COMBINED TRANSFORMER LOADS. TIE BETWEEN WILL BE CLOSED TO PERMIT THE INSTALLATION OF ONE GENERATOR.

104 CABLE REPLACEMENT SECTIONS

SCOPE	LOCATION 1	LOCATION 2	LENGTH(FT)*	CONDUCTOR SIZE	
				EXISTING	NEW
BASE 104	E-29-NN	E-29-LL.b	180	3-500KCM	3-500KCM
	E-29-LL.b	E-29-LL.a	60	3-500KCM	3-500KCM
	E-29-LL.a	E-28-JJ	170	3-500KCM	3-500KCM
	E-28-JJ	E-28-GG	293	3-500KCM	3-500KCM
	E-28-GG	E-27-EE	253	3-500KCM	3-500KCM
ATL 1	E-27-EE	E-27-BB	275	3-500KCM	3-500KCM
	E-27-BB	E-27-Z	230	3-500KCM	3-500KCM

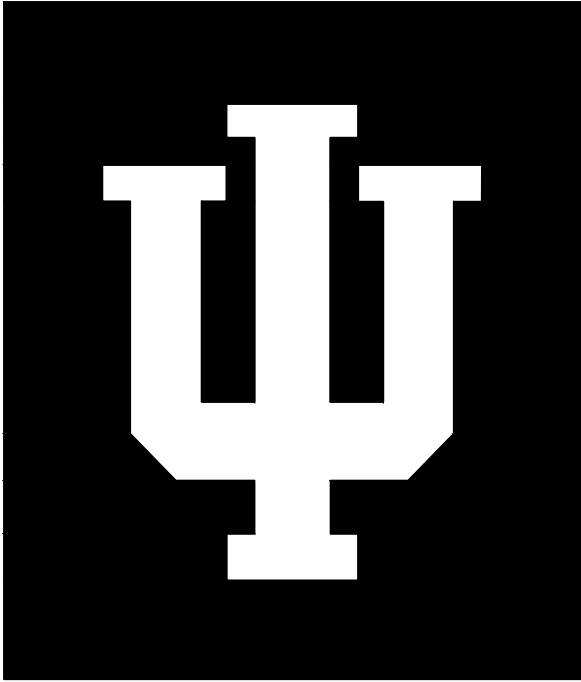
* APPROXIMATE DISTANCES ONLY, BASED ON GIS COORDINATES, DOES NOT ACCOUNT FOR ELEVATION CHANGES. CONTRACTOR IS RESPONSIBLE FOR FIELD MEASURING CABLE LENGTHS.



ELECTRICAL SITE PLAN

1/64" = 1'-0"

INDIANA
UNIVERSITY



CAPITAL
PROJECTS

SERVICE BUILDING
2901 E. DISCOVERY PARKWAY
BLOOMINGTON, IN 47408-9650

CERTIFIED BY:

REVISIONS: ADDENDUM #1 - 11/25/2025

KEY PLAN:

PROJECT TITLE:

BLOOMINGTON
CAMPUS

REPLACE SECTION OF
12470V CIRCUIT 106
AND CIRCUIT 104

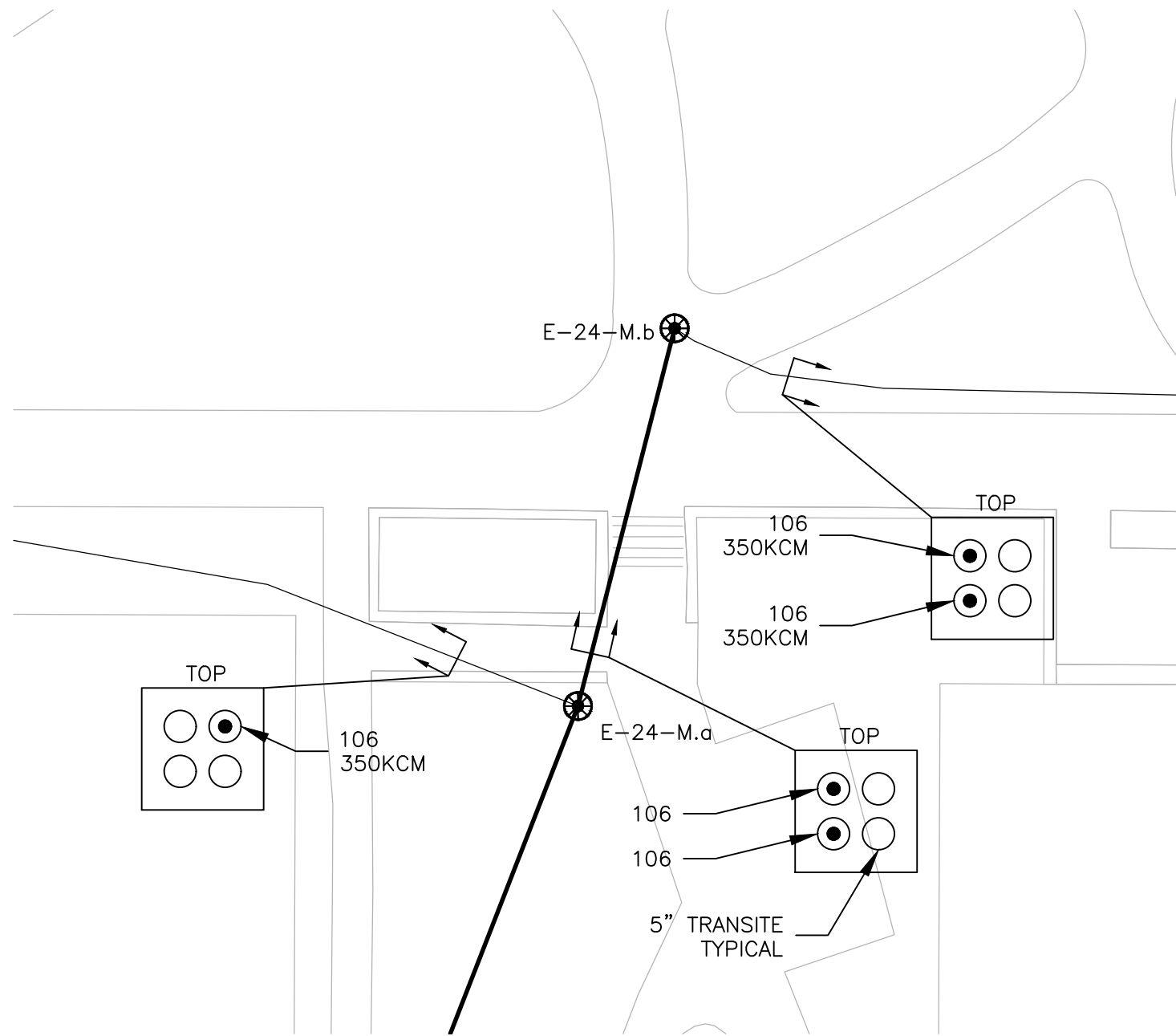
SHEET TITLE:

CIRCUIT 106 MANHOLES
DETAILS

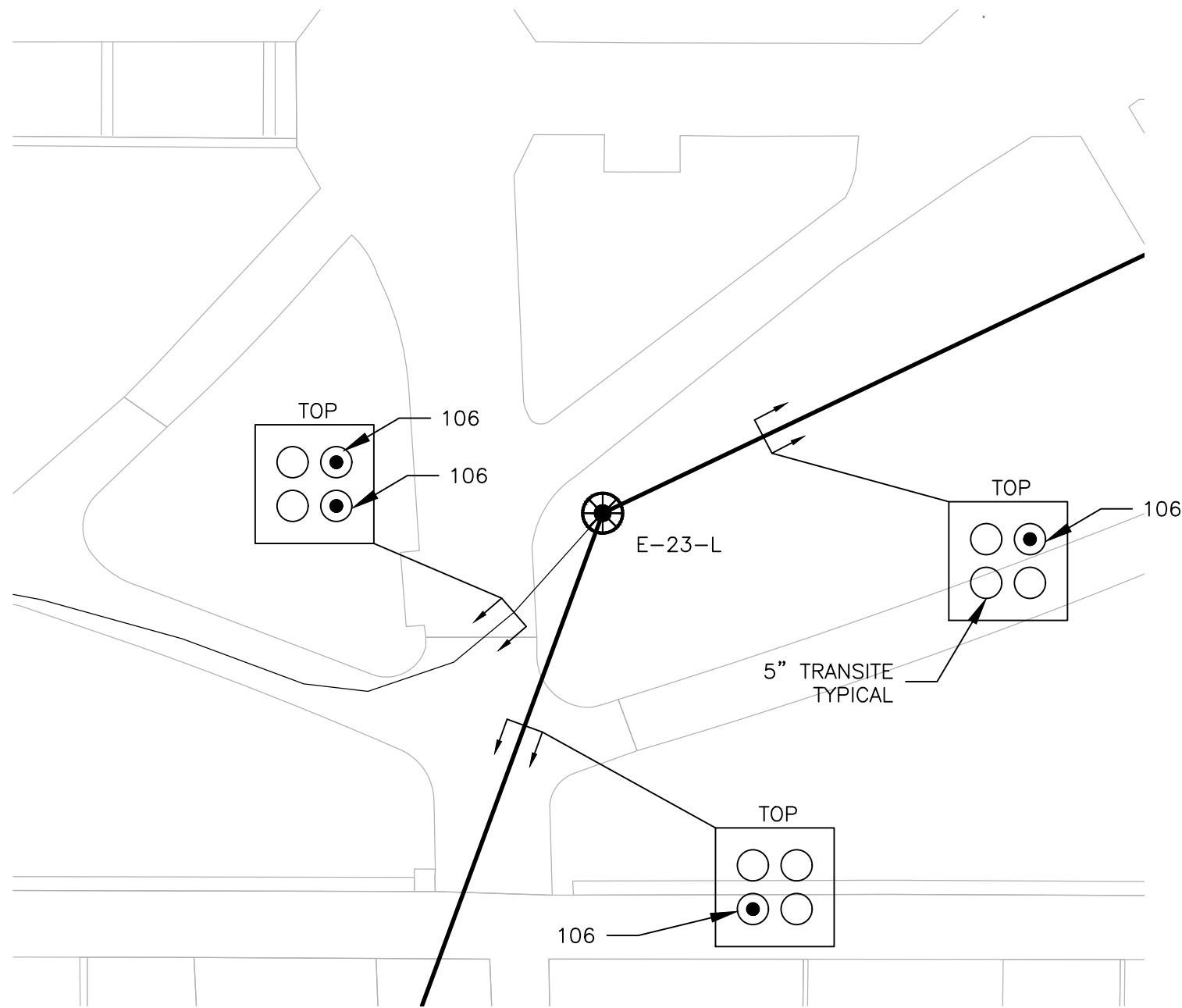
DRAWN:	NS	DATE:	11/13/2025
CHECKED BY:	KP/LV		
WORK REQUEST NUMBER:			
MMS PROJECT NUMBER:	20240606		
CAD FILE NAME:	20240606-E		
TRACING INDEX NUMBER:			
CAMPUS:	BL	BLDG. NUMBER:	000A
SHEET:			

E4

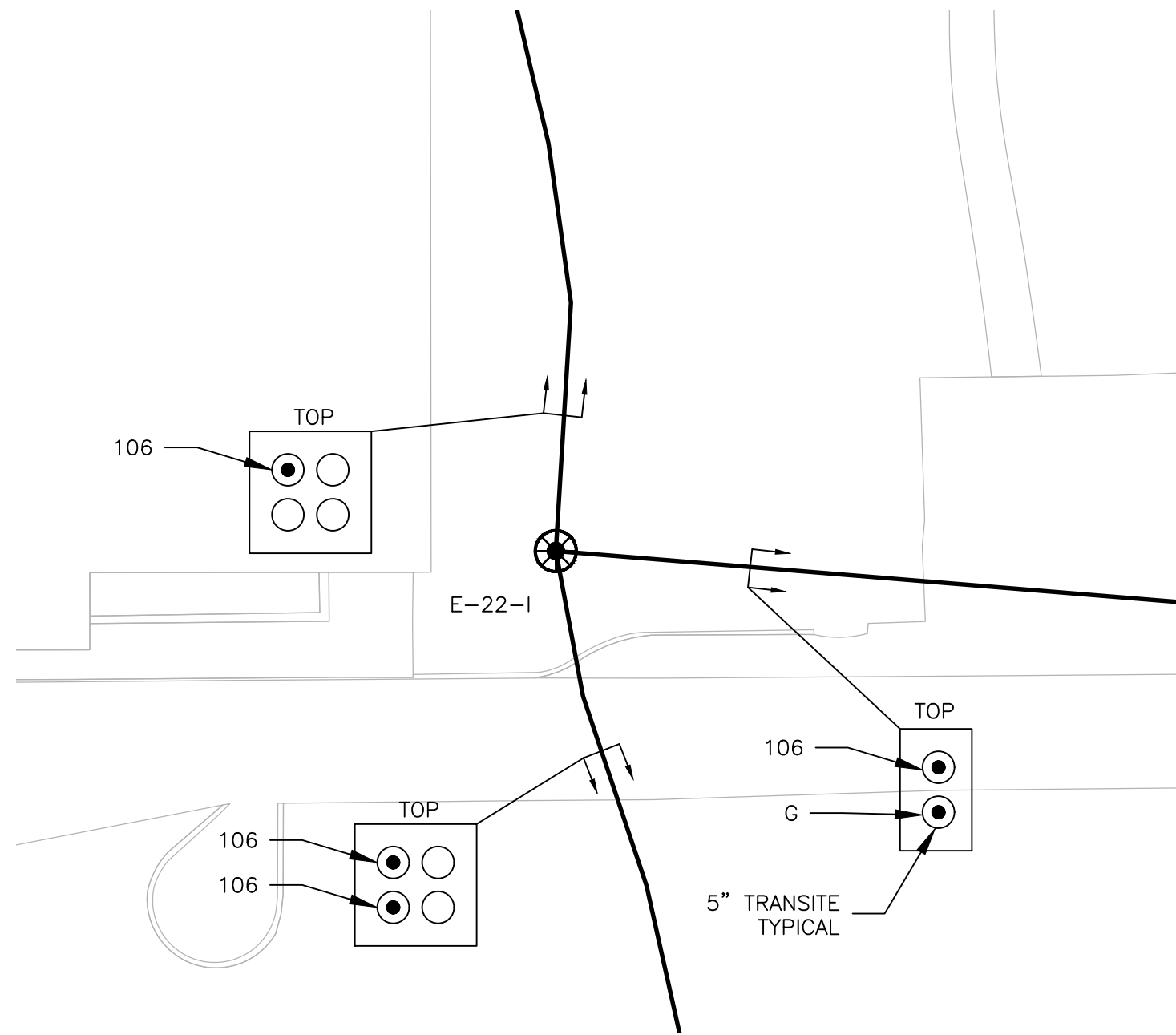
OF 6 SHEETS



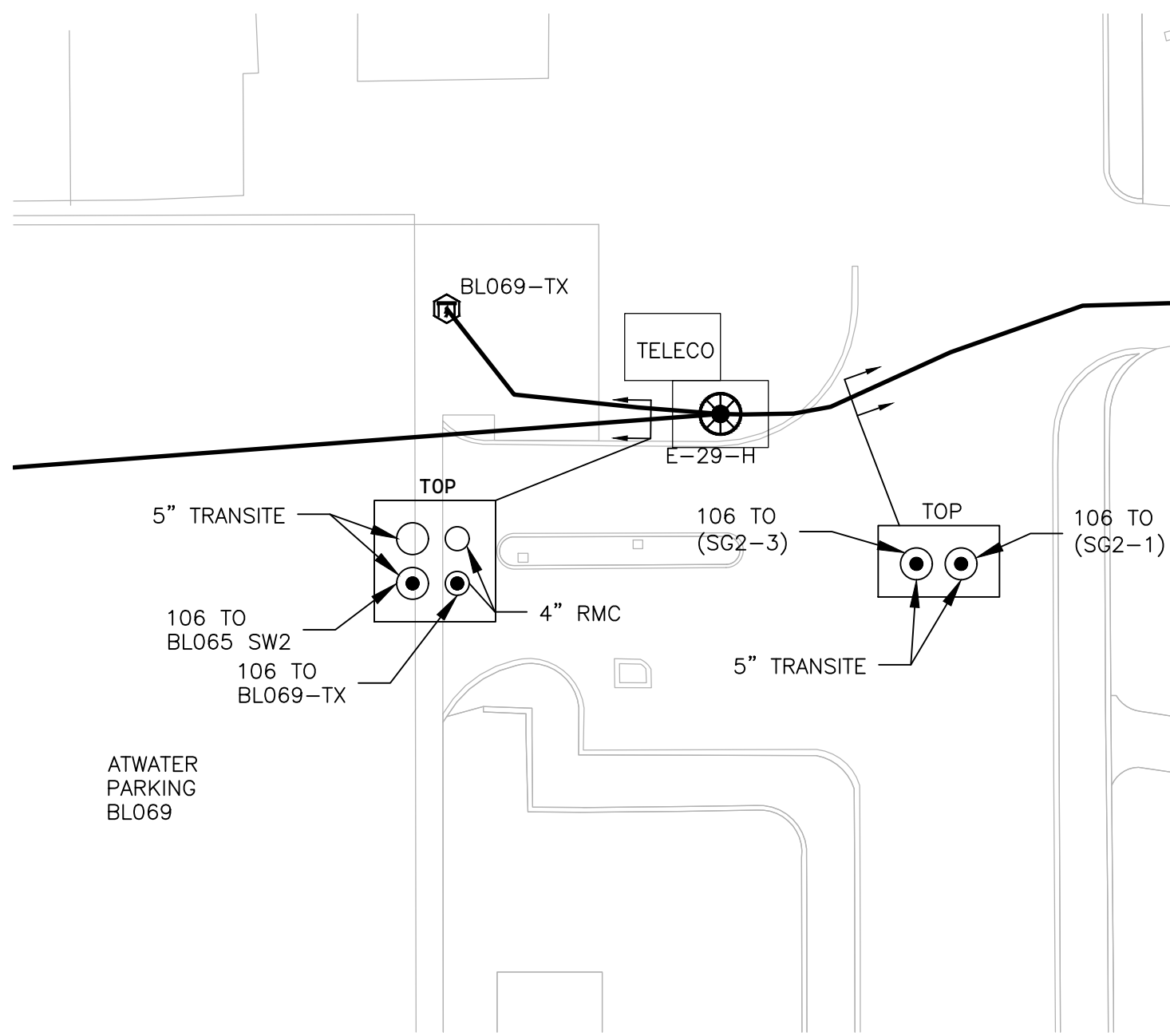
MANHOLE E-24-M.a & E-24-M.b
1/16" = 1'-0"



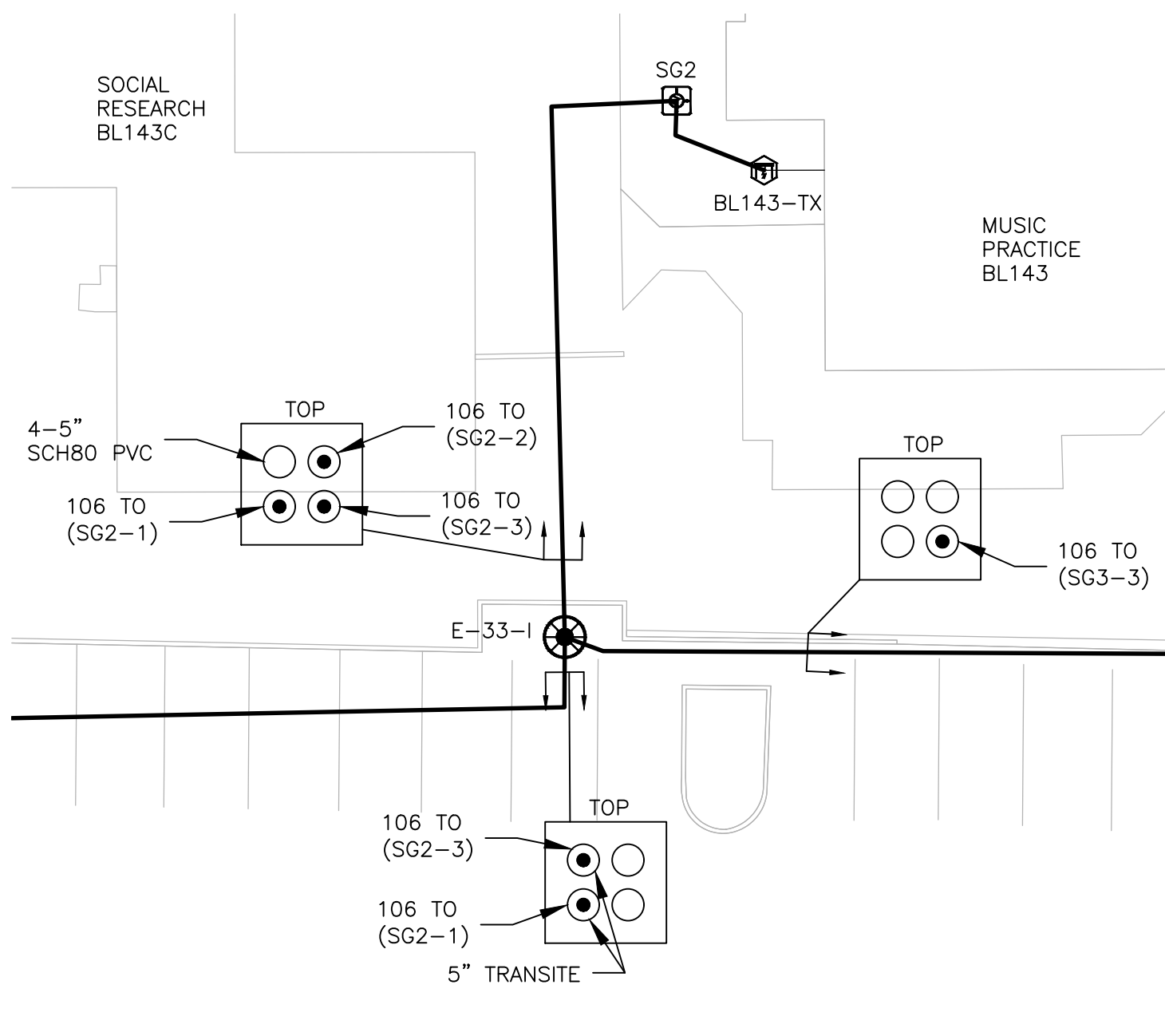
MANHOLE E-23-L
1/16" = 1'-0"



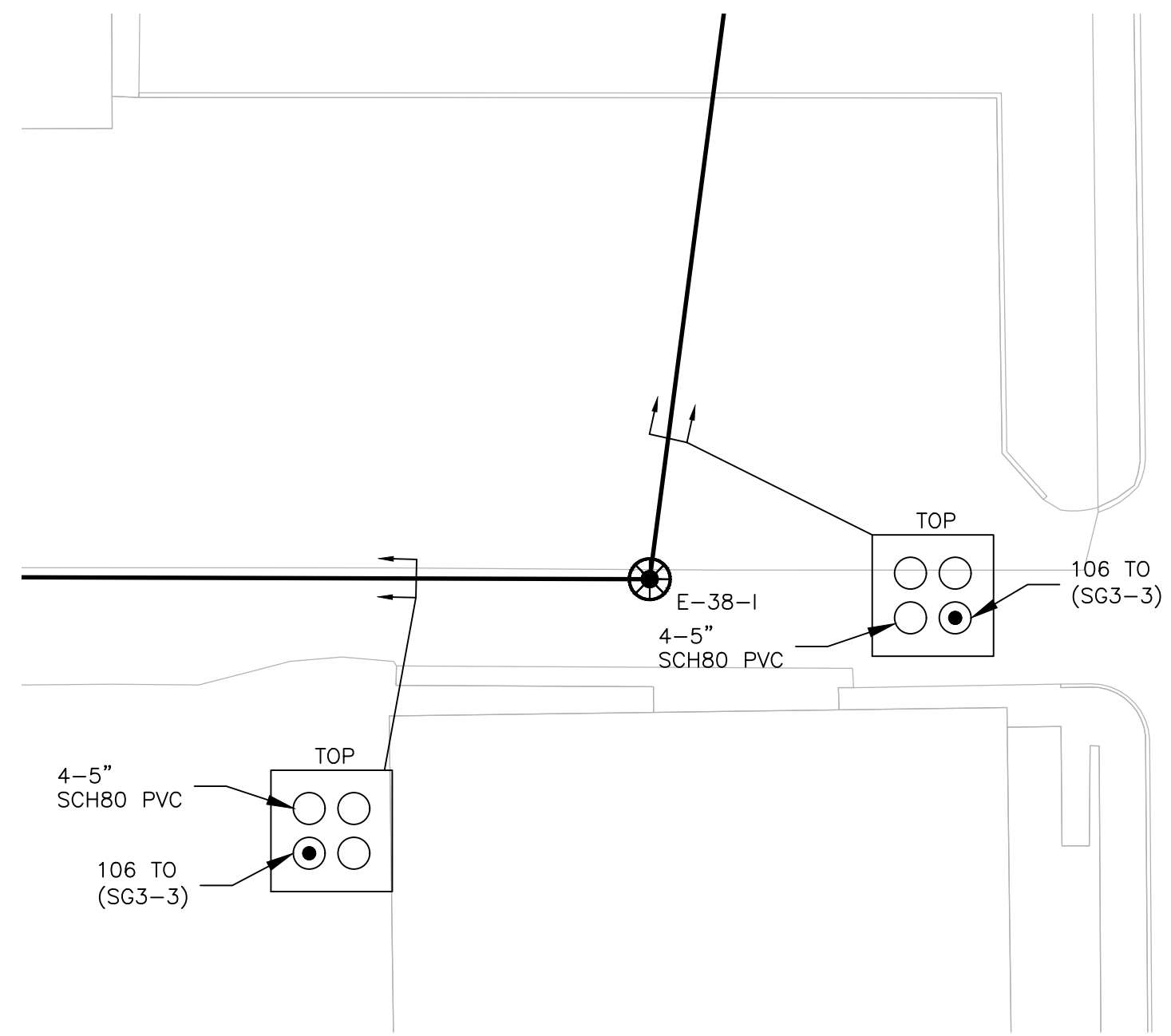
MANHOLE E-22-I
1/16" = 1'-0"



MANHOLE E-29-H
1/16" = 1'-0"

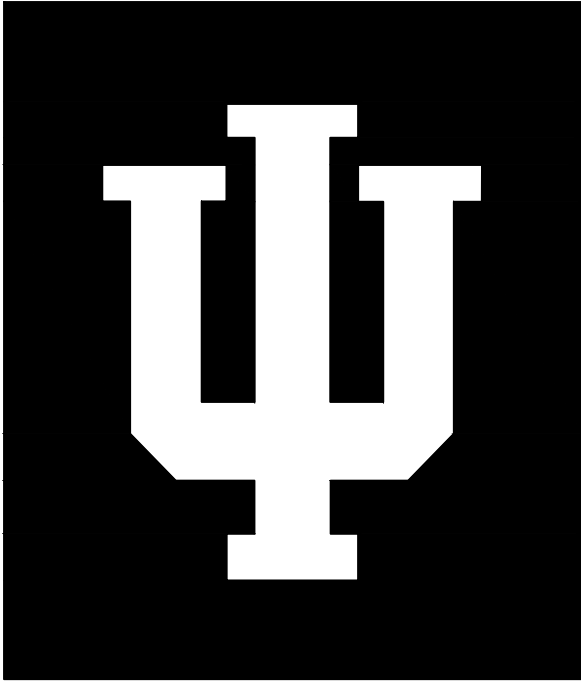


MANHOLE E-33-I
1/16" = 1'-0"



MANHOLE E-38-I
1/16" = 1'-0"

INDIANA
UNIVERSITY



CAPITAL
PROJECTS

SERVICE BUILDING
2901 E. DISCOVERY PARKWAY
BLOOMINGTON, IN 47408-9650

CERTIFIED BY:

REVISIONS: ADDENDUM #1 - 11/25/2025

KEY PLAN:

PROJECT TITLE:

BLOOMINGTON
CAMPUS

REPLACE SECTION OF
12470V CIRCUIT 106
AND CIRCUIT 104

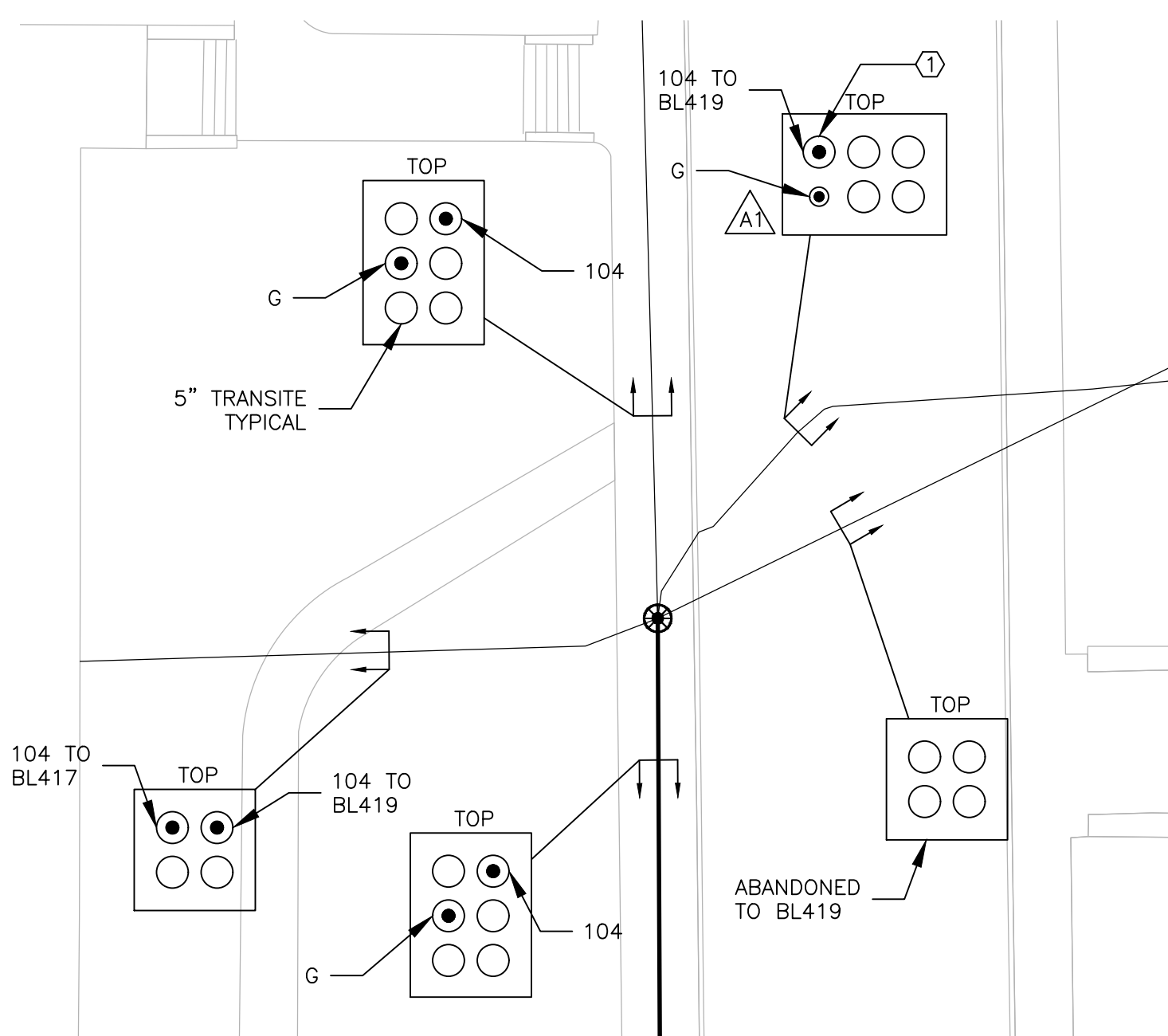
SHEET TITLE:

CIRCUIT 104 MANHOLE
DETAILS

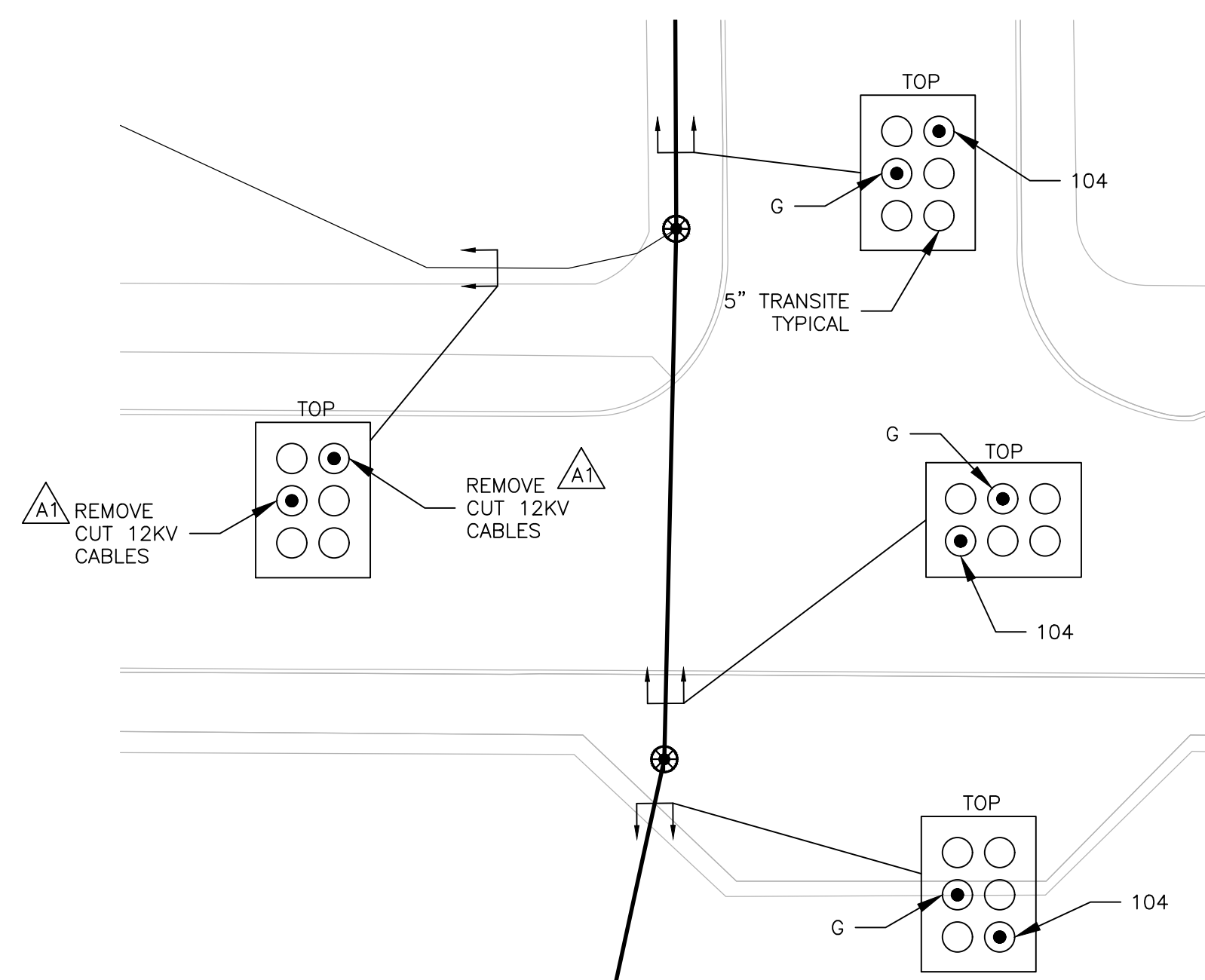
DRAWN:	NS	DATE:	11/13/2025
CHECKED BY:	KP/LV		
WORK REQUEST NUMBER:			
MMS PROJECT NUMBER:	20240606		
CAD FILE NAME:	20240606-E		
TRACING INDEX NUMBER:			
CAMPUS:	BL	BLDG. NUMBER:	000A
SHEET:			

E5

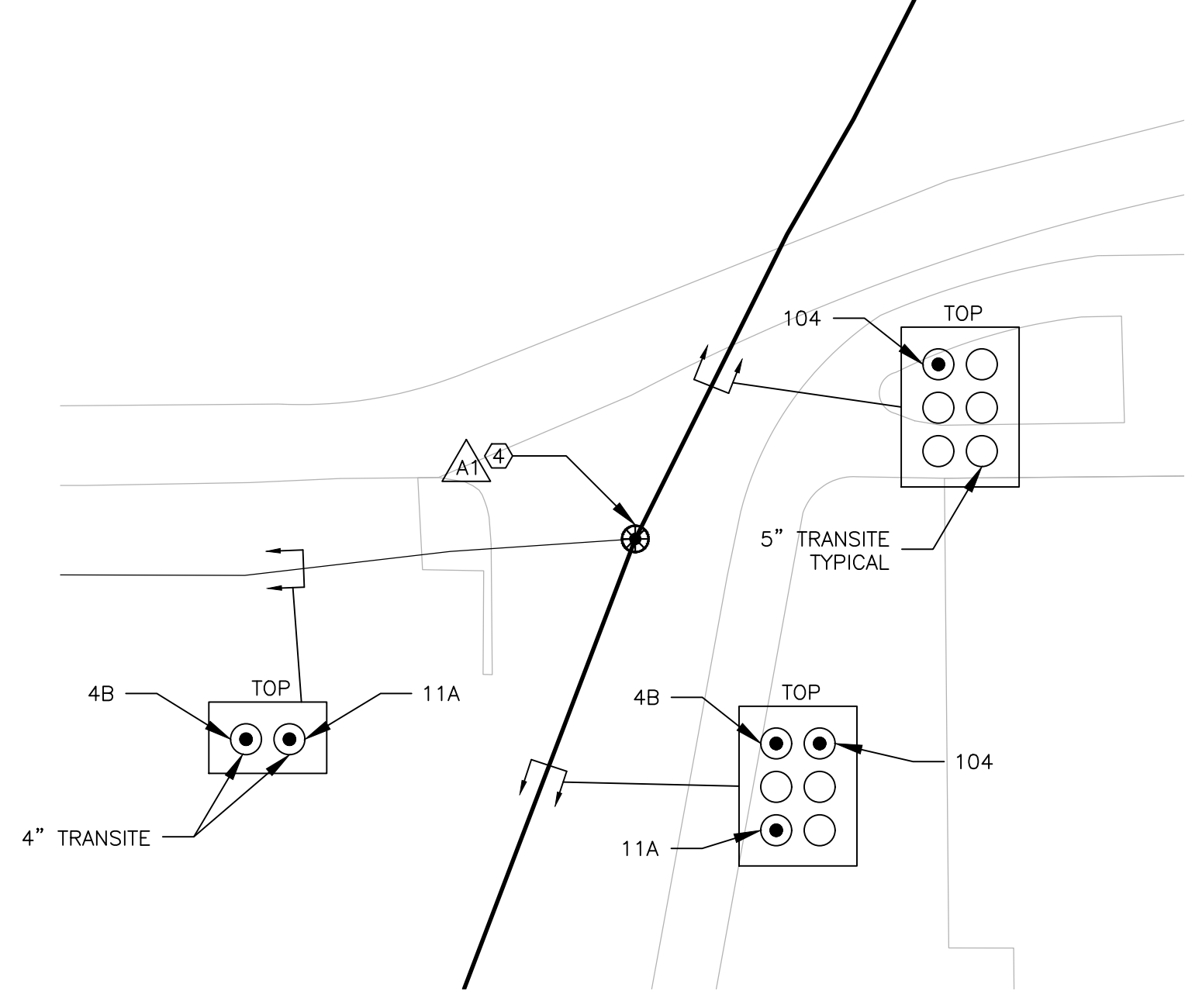
OF 6 SHEETS



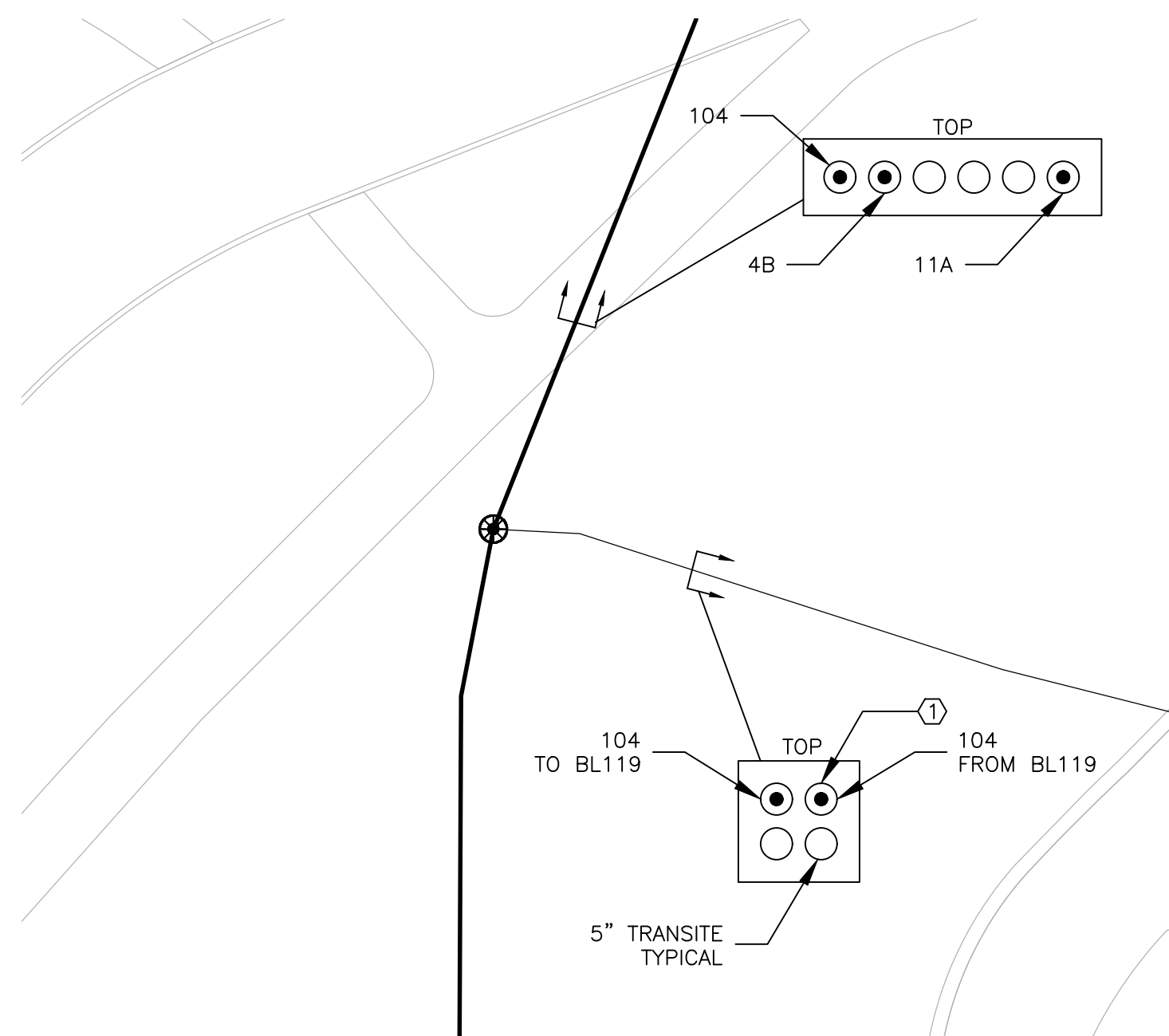
MANHOLE E-29-NN
1/16" = 1'-0"



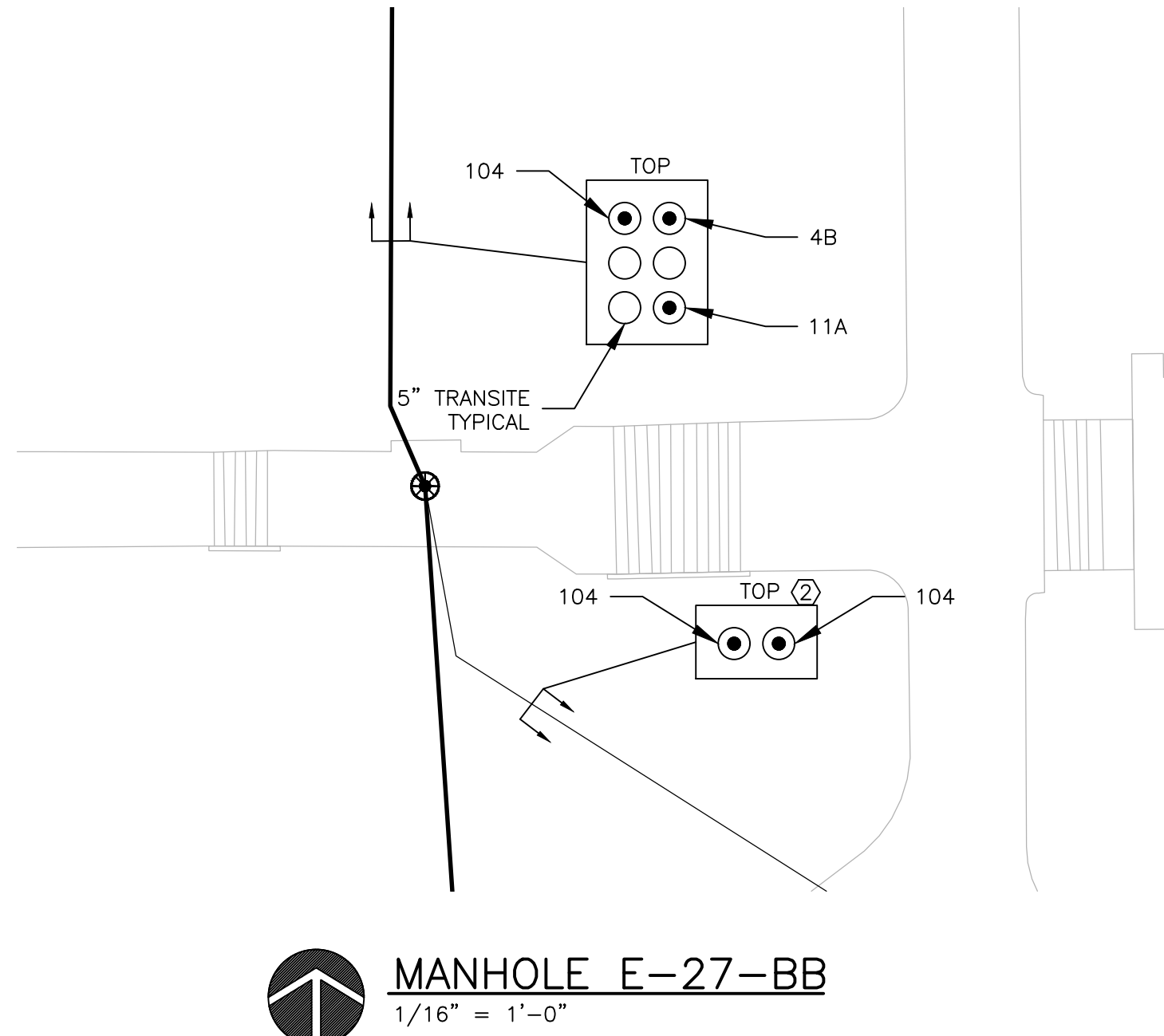
MANHOLE E-29-LL.a & E-29-LL.b
1/16" = 1'-0"



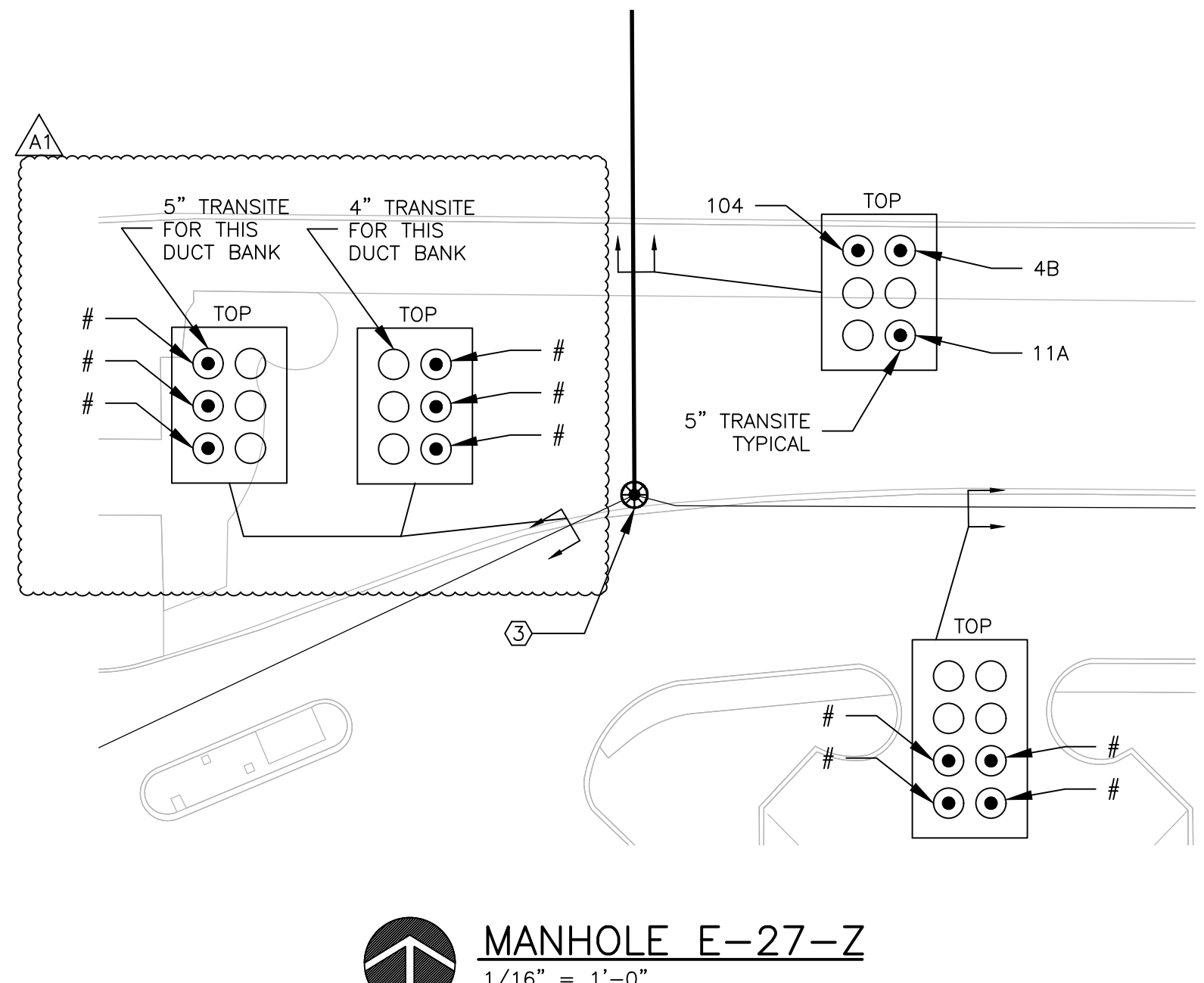
MANHOLE E-28-GG
1/16" = 1'-0"



MANHOLE E-27-EE
1/16" = 1'-0"



MANHOLE E-27-BB
1/16" = 1'-0"

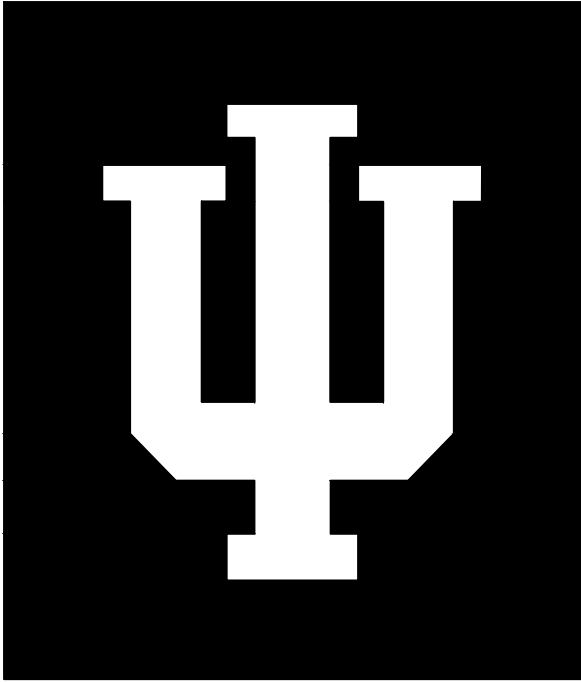


MANHOLE E-27-Z
1/16" = 1'-0"

KEYED NOTES SHEET E5:

- PREEXISTING CONDITION NEW CABLES BEING INSTALLED IN DIFFERENT PROJECT, SCHEDULED FOR MAY 2026
- PREEXISTING CONDITION, CIRCUITS TO BE REMOVED AND DUCT BANK ABANDONED IN DIFFERENT PROJECT, SCHEDULED FOR MAY 2026.
- CIRCUITS 104, 107, M5, 4B, AND 11A ARE IN THIS MANHOLE. CIRCUIT LOCATION IN DUCTS NEED TO BE FIELD VERIFIED AND MARKED IN MANHOLE. RECORD ON AS-BUILTS.
- WRAP NEW CABLE AROUND THE MANHOLE TWICE.

INDIANA
UNIVERSITY



CAPITAL
PROJECTS

SERVICE BUILDING
2901 E. DISCOVERY PARKWAY
BLOOMINGTON, IN 47408-9650

CERTIFIED BY:

REVISIONS: ADDENDUM #1 - 11/25/2025

KEY PLAN:

PROJECT TITLE:

BLOOMINGTON
CAMPUS

REPLACE SECTION OF
12470V CIRCUIT 106
AND CIRCUIT 104

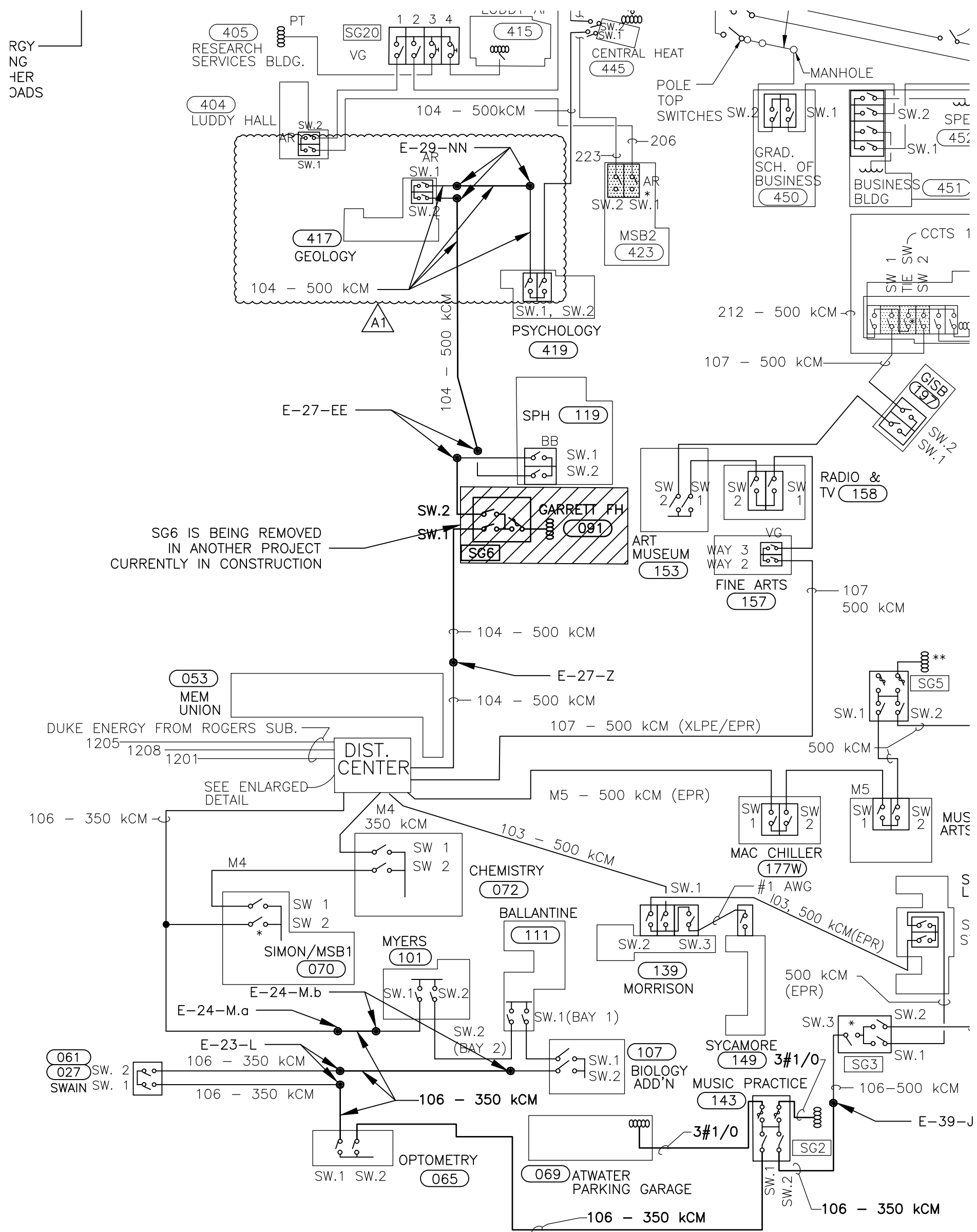
SHEET TITLE:

ONE-LINES

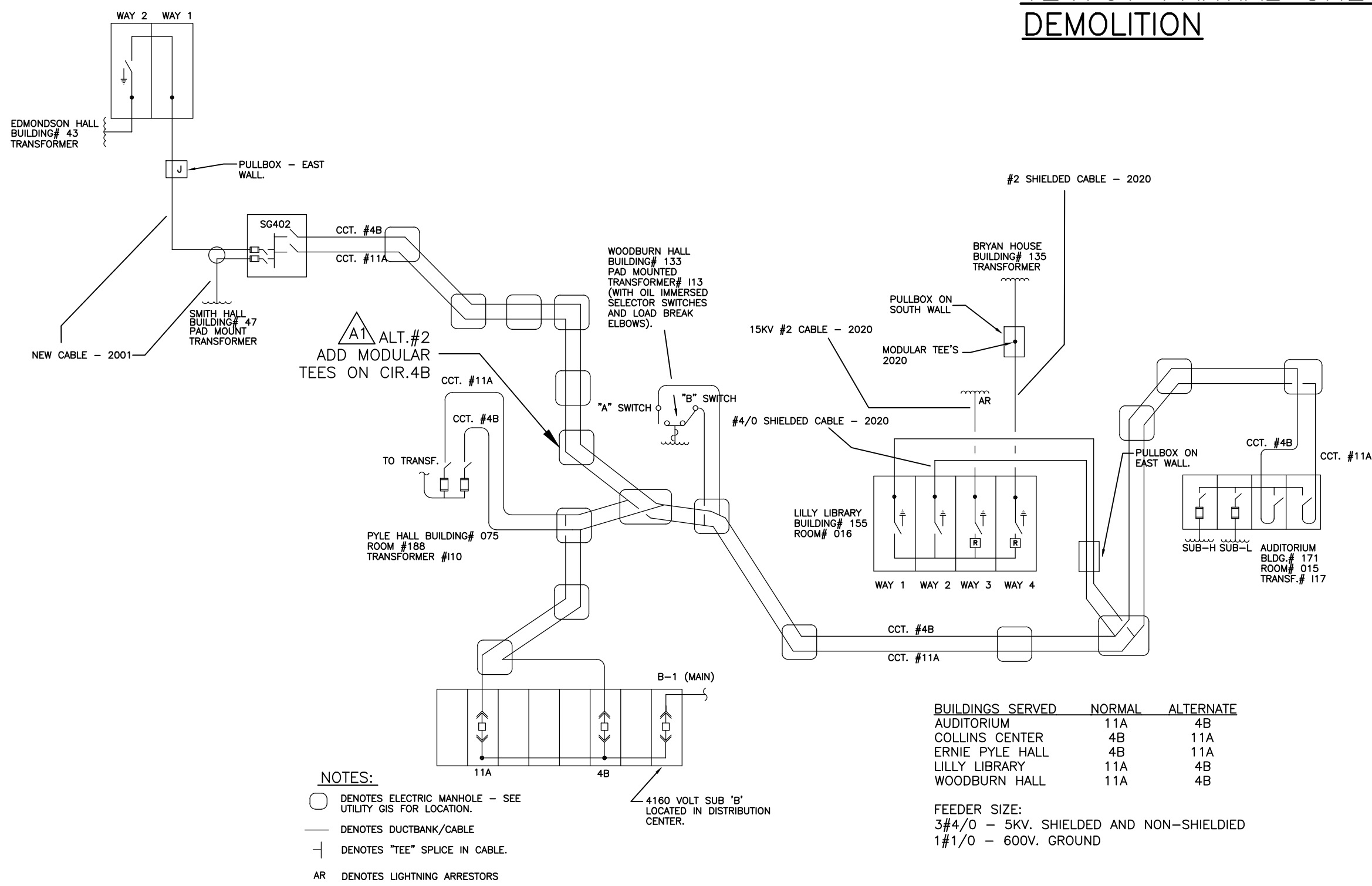
DRAWN:	NS	DATE:	11/13/2025
CHECKED BY:	KP/LV		
WORK REQUEST NUMBER:			
MMS PROJECT NUMBER:	20240606		
CAD FILE NAME:	20240606-E		
TRACING INDEX NUMBER:			
CAMPUS:	BL	BLDG. NUMBER:	000A
SHEET:			

E6

OF 6 SHEETS



12470V PARTIAL ONE-LINE
DEMOLITION



4160V CIRCUIT 11A & 4B ONE-LINE