

Addendum

PROJECT: Tunnel Repairs 2023

ADDENDUM # 2

DATE: 3/2/23

TO: ALL INTERESTED BIDDERS OF RECORD

BID NUMBER: B0027822

This Addendum # 2 forms part of the Contract Documents and modifies the original Bidding Documents. Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to acknowledge this addendum may subject Bidder to disqualification.

GENERAL INFO

1. The Bid date was extended to March 16, 2023, in Addendum #1. Bid times remain unchanged,
2. The last day for Bidder questions to the Design Team is 5:00 pm on March 8, 2023.

SPECIFICATION REVISIONS

1. Spec Section 26 53 00 – Exit Lighting: add Sure Lites LPX7 series as an approved manufacturer.
2. Spec Section 00 20 00 – Bid Form, Appendix B, Unit Price #11 – Re-insulate Utility Pipe per LF: delete this unit price. Leave it blank on the Bid Form.
3. Spec Section 01 23 70 – Unit Prices, Item K, Unit Price #11: Price per linear foot to re-insulate utility pipe: delete this unit price.

DRAWING REVISIONS

1. See re-issued electrical drawings, attached herein, in their entirety. Includes drawings listed below under Attachments. Revisions are not clouded because basically the entire drawing is revised.

QUESTION AND ANSWERS

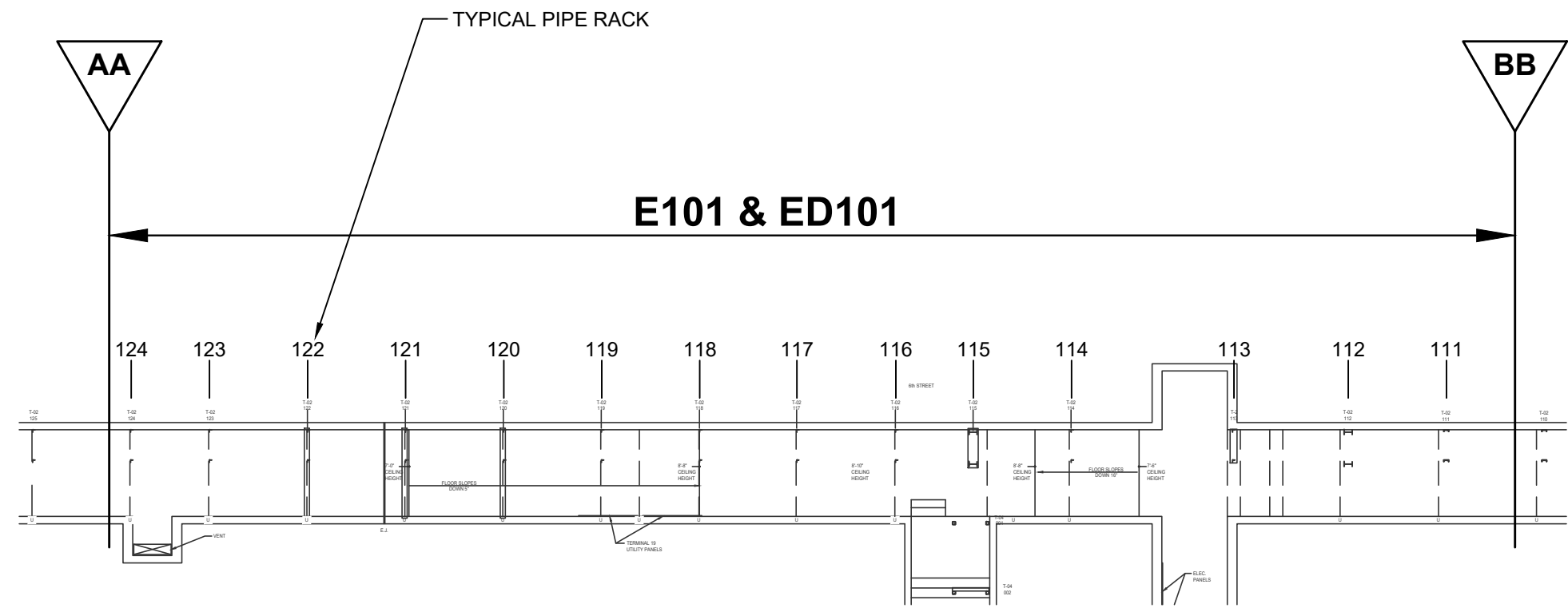
Q None received to date
A

OWNER COMMENT

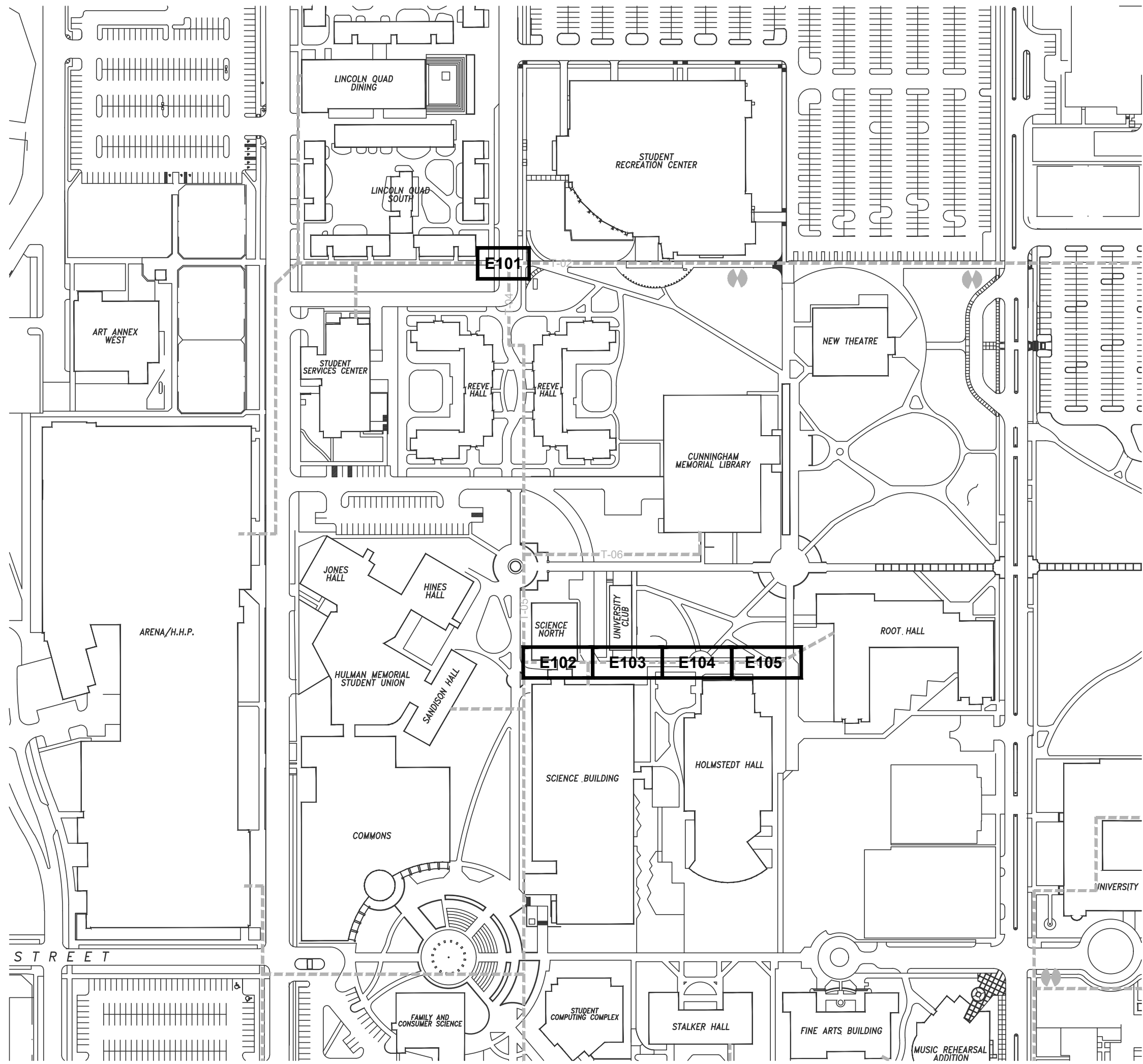
1. None

End of Addendum # 2

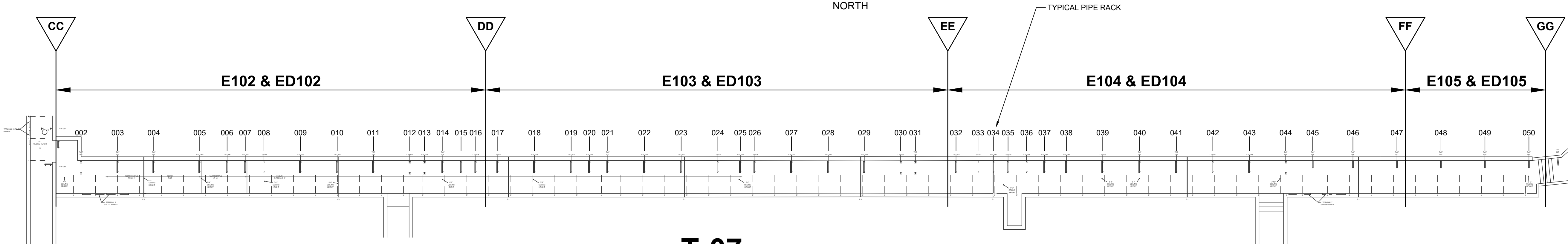
Attachments: Drawings E001, ED101, ED102, ED103, ED104, ED105, E101, E102, E103, E104, E105



T-02



KEYPLAN
NO SCALE
NORTH



T-07

GENERAL NOTES (RENOVATION):

1. ALL 120 VOLT CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRALS.
2. CONTRACTOR SHALL COORDINATE WITH ALL TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCORRECT WORK, OR FOR INFRINGEMENT UPON OTHERS WORK, DUE TO A LACK OF COORDINATION.
3. COORDINATE ALL SHUTDOWNS WITH OWNER. FOR PANEL FEEDERS THAT WILL BE INTERRUPTED, COORDINATE WITH OWNER TO DETERMINE IF SHUTDOWN WILL DISRUPT OTHER AREAS AND PROVIDE TEMPORARY FEEDS AS REQUIRED.

GENERAL NOTES (DEMOLITION):

1. FIELD VERIFY ALL EXTG. CONDITIONS PRIOR TO BEGINNING WORK. THESE DRAWINGS DO NOT SHOW ALL REQUIRED DEMOLITION WORK. SOME CONDITIONS MAY HAVE BEEN CONCEALED DURING FIELD SURVEYS.
2. ALL DEVICES AND EQUIPMENT SHOWN DASHED OR WITH HEAVY LINE WEIGHT SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL WIRING TO SOURCE, UNLESS OTHERWISE NOTED.
3. DISPOSAL OF DEMOLISHED MATERIALS SHALL COMPLY WITH ALL LOCAL, STATE & FEDERAL REGULATIONS.
4. CONTRACTORS SHALL PROTECT ALL EXTG. OWNER FACILITIES THAT ARE TO REMAIN DURING CONSTRUCTION. ANY FACILITIES DAMAGED OR DISCONNECTED BY CONTRACTOR SHALL BE IMMEDIATELY RESTORED TO PREVIOUS CONDITION.
5. OWNER SHALL HAVE "RIGHT OF FIRST REFUSAL" FOR ALL DEMOLISHED ELECTRICAL ITEMS. CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO BEGINNING WORK TO DETERMINE WHAT ITEMS THE OWNER MAY BE INTERESTED IN KEEPING. THE CONTRACTOR SHALL CAREFULLY REMOVE SUCH ITEMS AND DELIVER TO OWNER AS DIRECTED.
6. COORDINATE SCHEDULING OF DEMOLITION WORK WITH OWNER AND ALL TRADES.
7. PATCH ALL EXTG. HOLES THRU WALLS AND FLOORS WHERE EXTG. RACEWAYS OR CABLES ARE REMOVED.

ALTERNATES & ALLOWANCES:

REFER TO SPECIFICATIONS FOR DESCRIPTION OF ALTERNATES AND ALLOWANCES.

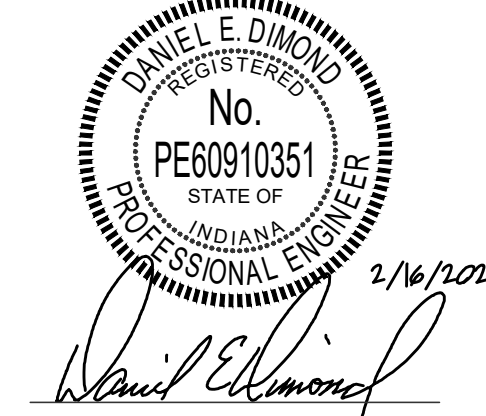
NOTES

1. CONDUIT ROUTING SHOWN ON TUNNEL PLANS ARE SHOWN DIAGRAMMATICALLY FOR CLARITY. VERIFY ALL LOCATIONS, SIZES, AND ROUTINGS IN FIELD.
2. GENERALLY, ALL NEW WORK SHALL UTILIZE NEW CONDUITS, BOXES, AND WIRING. MANY EXISTING COMPONENTS HAVE BEEN DAMAGED BY WATER INFILTRATION AND ARE DEEMED UNUSABLE.
3. LOCATIONS FOR REMOVAL OF EXISTING AND INSTALLATION OF NEW WORK SHALL BE CLOSELY COORDINATED WITH THE OWNER AND ENGINEER AND WITH THE REQUIRED/INDICATED CONCRETE REPAIRS AND MECHANICAL WORK. NEW WORK SHALL ALLOW FOR ACCESS AND REPLACEMENT OF EXISTING VALVES, PIPES, INSULATION, ETC.
4. GRS = GALVANIZED RIGID STEEL
5. S_{DT} = TIMER SWITCH. SEE SPECIFICATIONS.
6. ISU OIT WILL VERIFY FUNCTIONALITY OF ALL LOW VOLTAGE COMMUNICATION CABLES, COAX HARDLINE, FIBER CABLES, ETC. PRIOR TO THE CONTRACTOR BEGINNING WORK. CONTRACTOR SHALL REMOVE OBSOLETE CABLES.
7. FOR RESUPPORT OF EXISTING LOW VOLTAGE COMMUNICATION CABLES, COAX HARDLINE, FIBER CABLES, ETC., IF THERE ISN'T ENOUGH CABLE SLACK TO ALLOW FOR RELOCATION TO J-HOOKS ON THE TUNNEL WALL OR PIPE RACK, AN ALLOWED ALTERNATIVE METHOD OF SUPPORT WOULD BE TO UTILIZE A TAUT GALVANIZED 1/8" DIAMETER STRANDED MESSENGER CABLE SUPPORTED FROM THE TUNNEL CEILING AND STRAP THE LOW VOLTAGE CABLES TO THIS MESSENGER CABLE. THIS METHOD WOULD NEED TO BE COORDINATED WITH ISU OIT.
8. FOR ANY CONDUITS OR BOXES INDICATED TO REMAIN ON DEMOLITION PLANS, CONTRACTOR SHALL REMOVE ANY SURFACE RUST AND SLURRY. PROVIDE PRIMER AND PAINT PROTECTION IF DEEMED NECESSARY TO INHIBIT FUTURE RUSTING.

R.E. Dimond
and Associates, Inc.
Consulting Engineers
732 North Capitol Avenue
Indianapolis, IN 46204
Phone: (317) 634-4672
Fax: (317) 638-8725

THESE DRAWINGS AND SPECIFICATIONS, AND ALL COPIES THEREOF ARE AND SHALL REMAIN THE PROPERTY AND COPYRIGHT OF THE ENGINEER. THEY SHALL BE USED ONLY WITH RESPECT TO THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT OR WORK WITHOUT PRIOR WRITTEN PERMISSION FROM THE ENGINEER.

CERTIFIED BY:



REVISIONS:

| NO. | DESCRIPTION | DATE: |
|-----|-------------|----------|
| △ | ADDENDUM #2 | 3/2/2023 |
| | | |
| | | |
| | | |
| | | |

ARSEE ENGINEERS, INC.

CLIENT ORIENTED — BY DESIGN
9715 KINCAID DRIVE, SUITE 100 317/594-5152 PHONE
FISHERS, INDIANA 46037-9459 317/594-9590 FAX

PROJECT DESCRIPTION:

TUNNEL REPAIRS 2023
ISU BID No. B0027822
INDIANA STATE UNIVERSITY
TERRE HAUTE, INDIANA

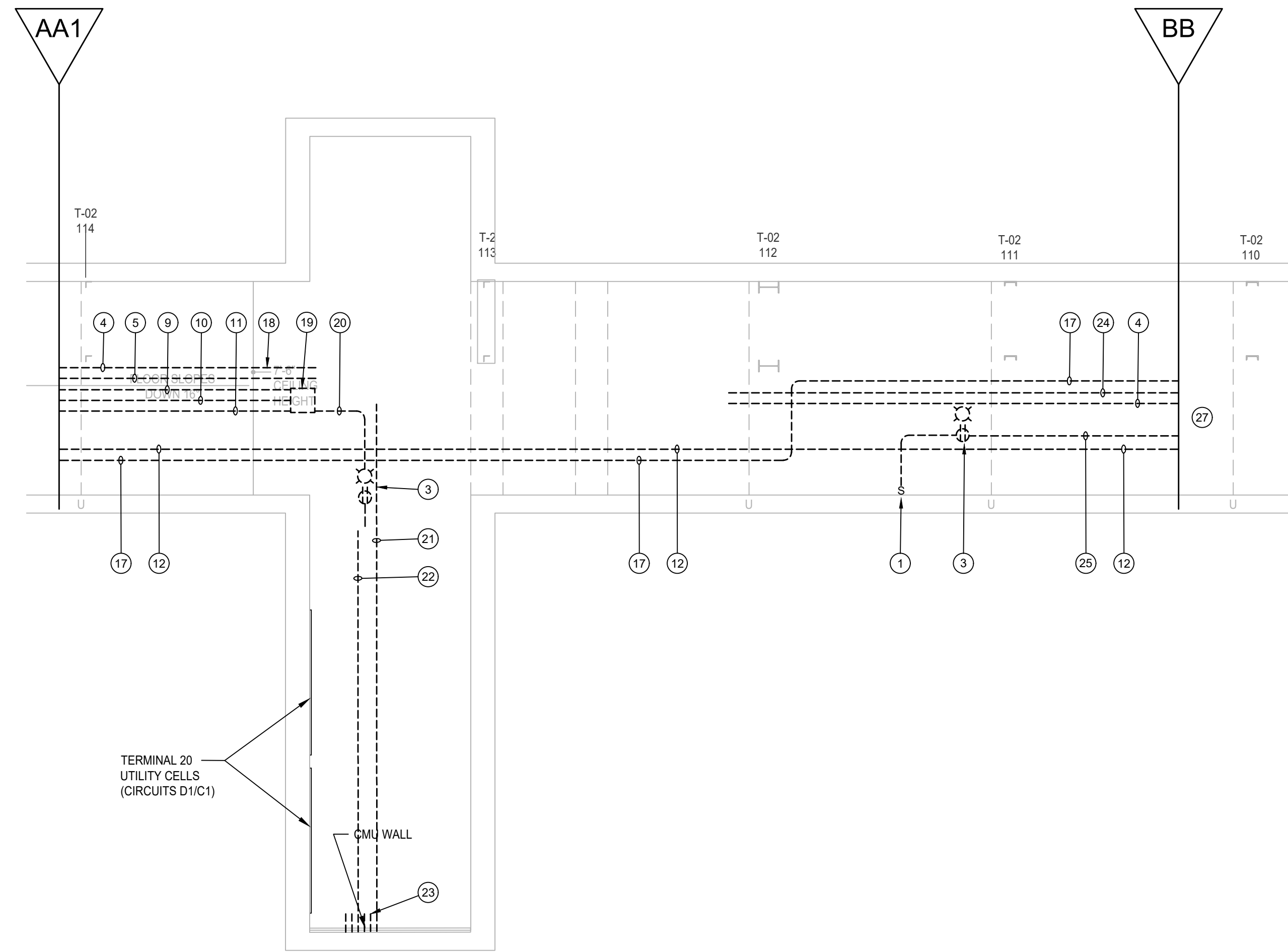
| | |
|-----------|--------------|
| DRAWN BY: | DESIGNED BY: |
| D.E.W. | D.E.W. |
| SCALE: | CHECKED BY: |
| AS NOTED | D.E.D. |
| DATE: | JOB NO.: |
| 2/16/2023 | D.A. #22063 |

SHEET DESCRIPTION:

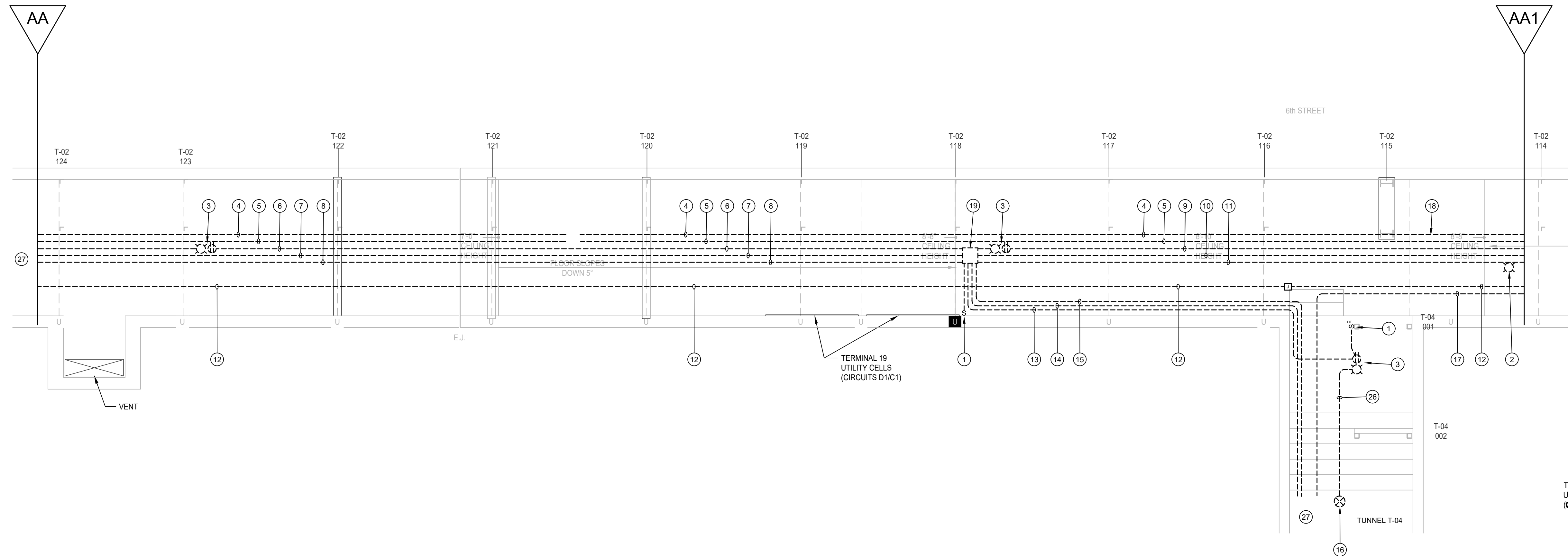
KEYPLAN AND
PROJECT LOCATION
-
ELECTRICAL

SHEET NUMBER:

E001



PARTIAL (T-02) TUNNEL PLAN - AA1 - BB
SCALE: 1/4" = 1'-0"



PARTIAL (T-02) TUNNEL PLAN - AA - AA1
SCALE: 1/4" = 1'-0"



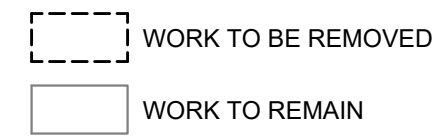
PLAN NOTES

- 1 REMOVE SPIN TIMER SWITCH OR LIGHT SWITCH AND ASSOCIATED DEVICE BOX, CONDUIT, AND WIRING.
- 2 REMOVE TEMPORARY LIGHTING, CORD, AND PLUG.
- 3 REMOVE LAMPHOLDER, LIGHT BULB, RECEPTACLE, BOXES, CONDUIT, AND WIRING.
- 4 REMOVE 3" GRS CONDUIT THAT CONTAINS (3) FIBER CABLES. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 5 REMOVE 2" GRS CONDUIT THAT CONTAINS (1) COAX HARDLINE & (1) SMALL COMMUNICATION CABLES. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 6 1" GRS CONDUIT WITH APPROX. 7#12 OR 10 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 7 3/4" GRS CONDUIT WITH APPROX. 2#8 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 8 1-1/4" EMT CONDUIT WITH APPROX. 3#6 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 9 1" GRS CONDUIT WITH APPROX. 4#10 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 10 REMOVE EMPTY 3/4" GRS CONDUIT.
- 11 REMOVE EMPTY 1-1/4" GRS CONDUIT.
- 12 3/4" GRS CONDUIT WITH APPROX. 7#10 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK. LABELLED 'PANEL TE', CIRCUITS 8 & 10" ON JUNCTION BOX COVER.
- 13 3/4" GRS CONDUIT WITH APPROX. 2#10 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 14 1-1/4" GRS CONDUIT WITH APPROX. 3#8 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 15 1" GRS CONDUIT WITH APPROX. 3#8 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 16 REPLACE EXIT LIGHT AND WIRING. SEE E101.
- 17 1" GRS/EMT CONDUIT WITH APPROX. 3#10 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 18 THERE ARE SEVERAL OPEN-AIR TELECOM TYPE CABLES RUNNING ALONG THE TUNNEL CEILING, STRAPPED TO CONDUITS FOR SUPPORT. PROVIDE J-HOOKS ON TUNNEL WALL OR PIPE RACK FOR SUPPORT OF THESE CABLES. FOR BIDDING PURPOSES, FIGURE A QUANTITY OF (20) APPROX. 1/2" OD MULTI-CONDUCTOR, FIBER, OR HARDLINE COAX CABLES.
- 19 REMOVE 12"x12"x6"D JUNCTION BOX AFTER ALL ASSOCIATED WIRING HAS BEEN REROUTED PER NOTES HEREIN. PROVIDE NEW AS REQUIRED.

PLAN NOTES

- 20 REMOVE 1" GRS CONDUIT WITH APPROX. 3#10 CONDUCTORS.
- 21 REMOVE ABANDONED 3" GRS CONDUIT BACK TO SOUTH WALL AND CAP.
- 22 REMOVE CONDUIT BACK TO SOUTH WALL AND RESUPPORT ANY CABLES WITH J-HOOKS ON TUNNEL WALL. SEAL CONDUIT AT WALL.
- 23 CAP EMPTY CONDUITS AND SEAL AROUND CABLES OF OCCUPIED CONDUITS.
- 24 REMOVE EMPTY 2" GRS CONDUIT.
- 25 1-1/4" GRS CONDUIT WITH APPROX. 7#10 OR 8 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 26 REPLACE WIRING IN EXISTING CONDUIT.
- 27 EXISTING CONDUITS, WIRING, CABLING, ETC. TO REMAIN BEYOND SCOPE OF WORK AREA. INTERCEPT AS REQUIRED TO MAINTAIN OPERATION.

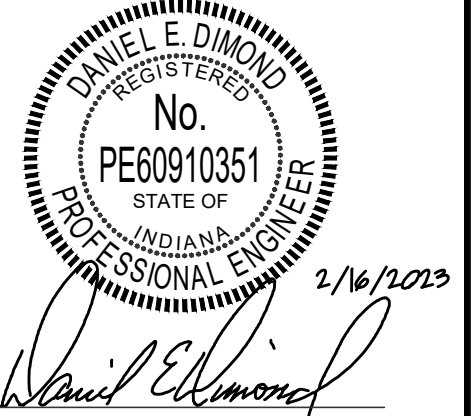
DEMOLITION LEGEND:



GENERAL NOTES

1. SEE DRAWING E001.

CERTIFIED BY:



REVISIONS:

| NO. | DESCRIPTION | DATE: |
|-----|-------------|----------|
| 1 | ADDENDUM #2 | 3/2/2023 |
| | | |
| | | |
| | | |
| | | |
| | | |

ARSEE ENGINEERS, INC.
CLIENT ORIENTED — BY DESIGN
9715 KINCAID DRIVE, SUITE 100 317/594-5152 PHONE
FISHERS, INDIANA 46037-9459 317/594-9590 FAX

PROJECT DESCRIPTION:

TUNNEL REPAIRS 2023
ISU BID No. B0027822
INDIANA STATE UNIVERSITY
TERRE HAUTE, INDIANA

| | |
|---------------------|-------------------------|
| DRAWN BY: D.E.W. | DESIGNED BY: D.E.W. |
| SCALE: AS NOTED | CHECKED BY: D.E.D. |
| DATE: 2/16/2023 | JOB NO.: D.A. #22063 |

SHEET DESCRIPTION:

(T-02) TUNNEL
PLAN - AA - BB
ELECTRICAL
DEMOLITION
(ALTERNATE #2)

SHEET NUMBER:

ED101

PLAN NOTES

- 1 REMOVE SPIN TIMER SWITCH AND ASSOCIATED DEVICE BOX, CONDUIT, AND WIRING.
- 2 REMOVE TEMPORARY LIGHTING, CORD, AND PLUG.
- 3 REMOVE LAMPHOLDER, LIGHT BULB, RECEPTACLE, BOXES, CONDUIT, AND WIRING.
- 4 1-1/4" GRS CONDUIT WITH APPROX. 9#10 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 5 REMOVE BOX, CONDUIT, AND ABANDONED WIRING.
- 6 REMOVE 3" GRS CONDUIT THAT CONTAINS (2) MULTI-PAIR COPPER CABLES. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 7 REMOVE 3" GRS CONDUIT THAT CONTAINS (1) 12MM/12SM FIBER CABLE. CABLE TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 8 REMOVE 2" GRS CONDUIT THAT CONTAINS (3) COAX HARDLINE & (2) SMALL COMMUNICATION CABLES. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 9 1-1/4" GRS CONDUIT WITH APPROX. 3#8 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 10 1-1/4" GRS CONDUIT WITH APPROX. 7#8 & 3#12 CONDUCTORS. REMOVE AND REPLACE TO SERVE NEW WALL MOUNTED LIGHTS AND RECEPTACLES.
- 11 3/4" GRS CONDUIT WITH APPROX. 2#8 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 12 1" EMT CONDUIT WITH APPROX. 4#8 & 3#12 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 13 REMOVE 3/4" EMT CONDUIT THAT CONTAINS MULTIPLE SMALL COMMUNICATION CABLES. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.



PLAN NOTES

- 14 THERE ARE SEVERAL OPEN-AIR TELECOM TYPE CABLES RUNNING ALONG THE TUNNEL CEILING, STRAPPED TO CONDUITS FOR SUPPORT. PROVIDE J-HOOKS ON TUNNEL WALL OR PIPE RACK FOR SUPPORT OF THESE CABLES. FOR BIDDING PURPOSES, FIGURE A QUANTITY OF (30) APPROX. 1/2" OD MULTI-CONDUCTOR, FIBER, OR HARDLINE COAX CABLES, PLUS (1) 400 PAIR COPPER CABLE (TO ROOT HALL 12001-12400).
- 15 12"x12"x6"D JUNCTION BOX WITH (1) 1-1/4" EMT & (1) 1-1/2" EMT CONDUITS UP TO OUTDOOR EMERGENCY GENERATOR FOR CONTROL AND LOW VOLTAGE POWER CIRCUITS TO REMAIN. CONDUITS AND WIRING RUNS THRU THE TUNNEL TO A JUNCTION BOX NEAR PIPE RACK 020. SEE ED103. THESE SHALL REMAIN. CLEAN ALL RUST AND SEDIMENTS FROM CONDUITS AND BOXES. SEE ED103 FOR ADDITIONAL WORK.
- 16 30"x30"x18"D JUNCTION BOX WITH (3) 3-1/2" EMT CONDUITS UP TO OUTDOOR EMERGENCY GENERATOR FOR POWER FEEDER CIRCUIT (3#600MCM, 1#3/0, 1#6(?) IN EACH) TO REMAIN. CONDUITS AND WIRING RUNS THRU THE TUNNEL TO A JUNCTION BOX NEAR PIPE RACK 021. SEE ED103. THESE SHALL REMAIN. CLEAN ALL RUST AND SEDIMENTS FROM CONDUITS AND BOXES. SEE ED103 FOR ADDITIONAL WORK.
- 17 8"x6"x4"D JUNCTION BOX WITH 2" GRS CONDUIT UP TO NORTH SCIENCE BUILDING TO REMAIN. 2" GRS CONDUIT WITH APPROX. (5) COMMUNICATION CABLES TO REMAIN. TEMPORARILY REMOVE SUPPORTS FROM TUNNEL CEILING TO ALLOW FOR CONCRETE REPAIRS & THEN RESUPPORT.
- 18 24"x14"x8"D JUNCTION BOX WITH (2) 3-1/2" GRS CONDUITS UP TO NORTH SCIENCE BUILDING TO REMAIN. (1) EMPTY 3-1/2" GRS CONDUIT BACK TO SCIENCE BUILDING SOURCE TO REMAIN. ANOTHER 3-1/2" GRS CONDUIT WITH 4#500MCM+GROUND CONDUCTORS TO SCIENCE BUILDING TO REMAIN. TEMPORARILY REMOVE SUPPORTS FROM TUNNEL CEILING TO ALLOW FOR CONCRETE REPAIRS & THEN RESUPPORT. REPLACE/REPAIR JUNCTION BOX.
- 19 REMOVE ABANDONED TELECOM BOX AND WIRING.
- 20 REMOVE 12"x12"x6"D JUNCTION BOX AFTER ALL ASSOCIATED WIRING HAS BEEN REROUTED PER NOTES ABOVE. PROVIDE NEW AS REQUIRED.
- 21 TEMPERATURE CONTROLS (7) BOX AND ASSOCIATED OPEN-AIR CABLES TO REMAIN. PROVIDE SUPPORT FOR CABLES. ISU TO VERIFY THESE ARE STILL OPERATIONAL. REMOVE IF DETERMINED TO BE OBSOLETE.

PLAN NOTES

- 22 REMOVE 4' LONG WALL MOUNTED FLUORESCENT VAPORTIGHT LIGHT FIXTURE AND WIRING.
- 23 JUNCTION BOX & 1-1/4" GRS CONDUIT WITH APPROX. 3#10 CONDUCTORS TO REMAIN.
- 24 REMOVE ABANDONED 2-1/2" EMT CONDUIT.
- 25 REMOVE ABANDONED 2-1/2" GRS CONDUIT.
- 26 REMOVE 3" GRS CONDUIT THAT CONTAINS (1) MULTI-PAIR COPPER CABLE (HOLMSTEDT 4351-4750), CABLE TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 27 REMOVE EMPTY 3" GRS CONDUIT.
- 28 REMOVE 2" GRS CONDUIT THAT CONTAINS (1) COAX HARDLINE & (1) SMALL COMMUNICATION CABLE. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 29 REMOVE ABANDONED 2" GRS CONDUIT WITH APPROX. 3#8 CONDUCTORS.
- 30 CONTINUATION OF PLAN NOTES 15 & 16 CONDUITS AND WIRING TO REMAIN. REPLACE EXISTING SUPPORTS FROM TUNNEL CEILING (INSTALL NEW SUPPORTS AFTER COMPLETION OF CONCRETE REPAIRS OR AVOID AREAS THAT NEED CONCRETE REPAIRS).
- 31 CONDUIT, WIRE, CABLES, ETC. TO REMAIN BEYOND TUNNEL T-07. INTERCEPT AS REQUIRED.
- 32 FIRE ALARM WIRING, CONDUIT, AND JUNCTION BOXES FOR NORTH SCIENCE BUILDING TO REMAIN.
- 33 REMOVE 3/4" GRS CONDUIT THAT CONTAINS (2) SMALL COMMUNICATION CABLES. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 34 REMOVE EMPTY 1-1/2" GRS CONDUIT TO SOURCE IN SCIENCE BUILDING.
- 35 3/4" GRS CONDUIT WITH APPROX. 2#8 CONDUCTORS TO SCIENCE BUILDING. REMOVE AND REPLACE WITH NEW WALL MOUNTED CONDUIT AND WIRE.

DEMOLITION LEGEND:

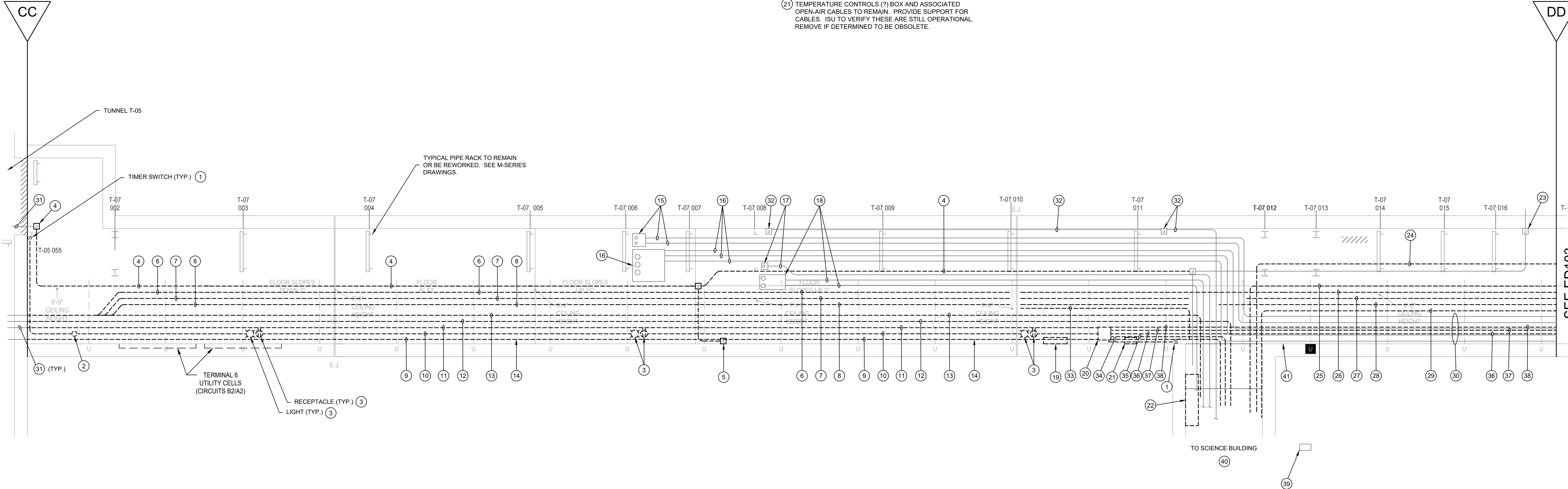
-  WORK TO BE REMOVED
-  WORK TO REMAIN

GENERAL NOTES

1. SEE DRAWING E001.

PLAN NOTES

- 36 1-1/2" GRS CONDUIT WITH APPROX. 3#8 OR 6 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 37 1-1/4" GRS CONDUIT WITH APPROX. 7#10 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 38 1" GRS CONDUIT WITH APPROX. 2#8 OR 6 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 39 EXISTING TUNNEL LIGHTING CONTACTOR IN SCIENCE BUILDING TO REMAIN. REWORK AS REQUIRED.
- 40 FOR BIDDING PURPOSES REGARDING NOTED REMOVAL OF EXISTING CONDUIT, WIRE, CABLE, ETC. INTO THE SCIENCE BUILDING, INCLUDE REMOVAL OF UP TO 100'-0" OF LENGTH INSIDE THE BUILDING.
- 41 REMOVE ABANDONED CABLES IN THIS AREA AND SEAL EXISTING CONDUIT PENETRATIONS THRU TUNNEL WALL.

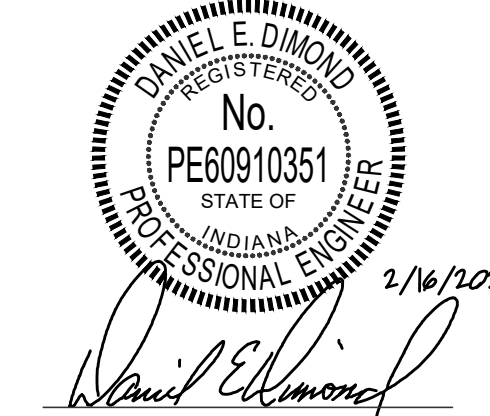


PARTIAL (T-07) TUNNEL PLAN - CC - DD

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



CERTIFIED BY:



REVISIONS:

| NO. | DESCRIPTION | DATE: |
|-----|-------------|----------|
| 1 | ADDENDUM #2 | 3/2/2023 |
| | | |
| | | |
| | | |
| | | |

ARSEE ENGINEERS, INC.

CLIENT ORIENTED — BY DESIGN

9715 KINCAID DRIVE, SUITE 100 317/594-5152 PHONE
FISHERS, INDIANA 46037-9459 317/594-9590 FAX

PROJECT DESCRIPTION:

TUNNEL REPAIRS 2023
ISU BID No. B0027822
INDIANA STATE UNIVERSITY
TERRE HAUTE, INDIANA

| | |
|---------------------|-------------------------|
| DRAWN BY: D.E.W. | DESIGNED BY: D.E.W. |
| SCALE: AS NOTED | CHECKED BY: D.E.D. |
| DATE: 2/16/2023 | JOB NO.: D.A. #22063 |

SHEET DESCRIPTION:

(T-07) TUNNEL
PLAN - CC - DD
ELECTRICAL
DEMOLITION

SHEET NUMBER:

ED102

PLAN NOTES

- 1 REMOVE ABANDONED 2-1/2" EMT CONDUIT.
- 2 REMOVE ABANDONED 2-1/2" GRS CONDUIT.
- 3 REMOVE LAMPHOLDER, LIGHT BULB, RECEPTACLE, BOXES, CONDUIT, AND WIRING.
- 4 REMOVE 3" GRS CONDUIT THAT CONTAINS (1) 400 PAIR COPPER CABLE (TO ROOT HALL 12001-12400). CABLE TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 5 REMOVE EMPTY 3" GRS CONDUIT.
- 6 REMOVE 2" GRS CONDUIT THAT CONTAINS (1) COAX HARDLINE & (1) SMALL COMMUNICATION CABLE. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 7 REMOVE ABANDONED 2" GRS CONDUIT WITH APPROX. 3#6 CONDUCTORS.
- 8 CONTINUATION OF PLAN NOTES 15 & 16 CONDUITS AND WIRING TO REMAIN. REPLACE EXISTING SUPPORTS FROM TUNNEL CEILING (INSTALL NEW SUPPORTS AFTER COMPLETION OF CONCRETE REPAIRS OR AVOID AREAS THAT NEED CONCRETE REPAIRS).
- 9 18"x18"x8"D JUNCTION BOX WITH (1) 1-1/4" EMT & (1) 1-1/2" EMT CONDUITS TO SCIENCE BUILDING FOR CONTROL AND LOW VOLTAGE POWER CIRCUITS TO REMAIN.
- 10 36"x24"x16"D JUNCTION BOX WITH (3) 3-1/2" EMT CONDUITS TO SCIENCE BUILDING FOR POWER FEEDER CIRCUIT (3#600MCM, 1#3/0, 1#6(?) IN EACH) TO REMAIN.
- 11 PROVIDE CAP ON EXISTING PVC CONDUIT (APPROX. 2")
- 12 REMOVE (2) JUNCTION BOXES AND ASSOCIATED CONDUITS AND ABANDONED WIRING. PROVIDE CAPS ON THRU-WALL CONDUITS AND PIPES (APPROX. 2" & 2-1/2").
- 13 PROVIDE CAP ON EXISTING EMPTY 4" CONDUIT AT WALL. PROVIDE A 12"x12"x6"D JUNCTION BOX OVER EXISTING 2" CONDUIT AND WIRING AND MAKE SAFE FOR FUTURE USE.

PLAN NOTES

- 14 1-1/2" GRS CONDUIT WITH APPROX. 3#8 OR 8 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 15 1-1/4" GRS CONDUIT WITH APPROX. 7#12 OR 10 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 16 1" GRS CONDUIT WITH APPROX. 2#8 OR 6 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 17 CONDUITS CONTINUE ABOVE PLAN NOTE 8 CONDUITS. SEE ED102 FOR CONTINUATION.
- 18 THERE ARE SEVERAL OPEN-AIR TELECOM TYPE CABLES RUNNING ALONG THE TUNNEL CEILING, STRAPPED TO CONDUITS FOR SUPPORT. PROVIDE J-HOOKS ON TUNNEL WALL OR PIPE RACK FOR SUPPORT OF THESE CABLES. FOR BIDDING PURPOSES, FIGURE A QUANTITY OF (30) APPROX. 1/2" OD MULTI-CONDUCTOR, FIBER, OR HARDLINE COAX CABLES, PLUS (1) 400 PAIR COPPER ANALOG CABLE (TO ROOT HALL 12001-12400).

DEMOLITION LEGEND:

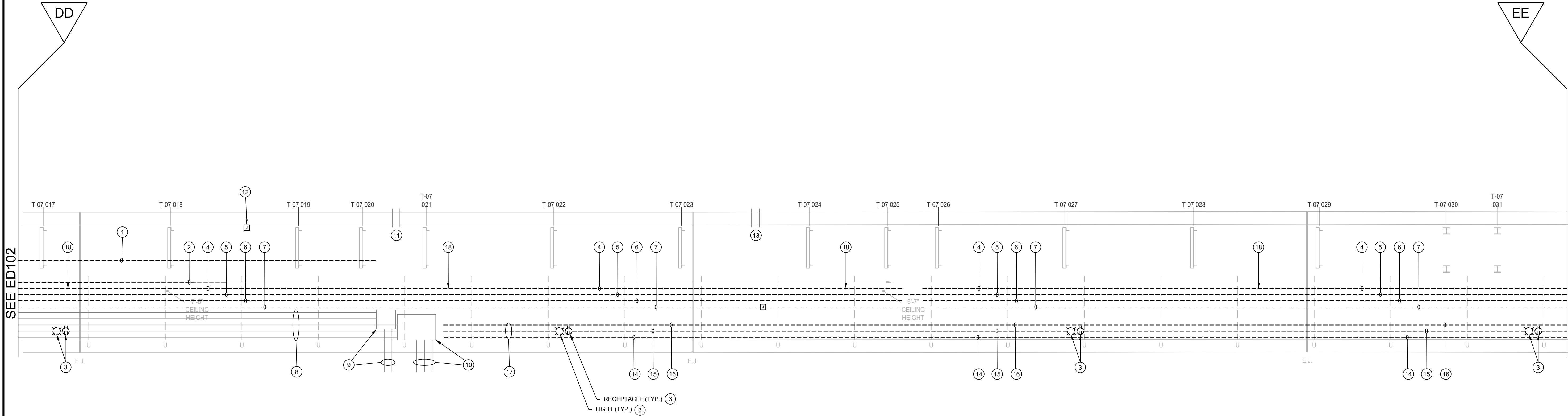
- WORK TO BE REMOVED
- WORK TO REMAIN

GENERAL NOTES

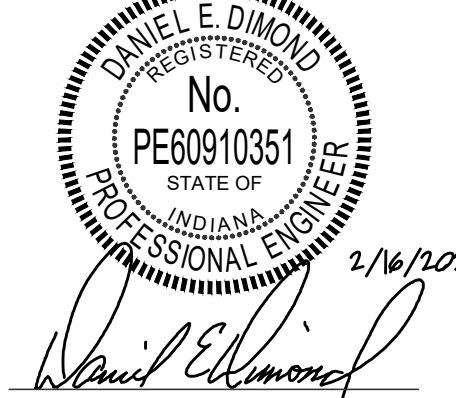
1. SEE DRAWING E001.

PARTIAL (T-07) TUNNEL PLAN - DD - EE

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



CERTIFIED BY:



REVISIONS:

| NO. | DESCRIPTION | DATE: |
|-----|-------------|----------|
| 1 | ADDENDUM #2 | 3/2/2023 |
| | | |
| | | |
| | | |
| | | |

ARSEE ENGINEERS, INC.
CLIENT ORIENTED — BY DESIGN
9715 KINCAID DRIVE, SUITE 100 317/594-5152 PHONE
FISHERS, INDIANA 46037-9459 317/594-9590 FAX

PROJECT DESCRIPTION:

TUNNEL REPAIRS 2023
ISU BID No. B0027822
INDIANA STATE UNIVERSITY
TERRE HAUTE, INDIANA

| | |
|---------------------|-------------------------|
| DRAWN BY: D.E.W. | DESIGNED BY: D.E.W. |
| SCALE: AS NOTED | CHECKED BY: D.E.D. |
| DATE: 2/16/2023 | JOB NO.: D.A. #22063 |

SHEET DESCRIPTION:

(T-07) TUNNEL
PLAN - DD - EE
ELECTRICAL
DEMOLITION

SHEET NUMBER:

ED103

PLAN NOTES

- 1 REMOVE SPIN TIMER SWITCH AND ASSOCIATED DEVICE BOX, CONDUIT, AND WIRING.
- 2 REMOVE TEMPORARY LIGHTING, CORD, AND PLUG.
- 3 REMOVE LAMPHOLDER, LIGHT BULB, RECEPTACLE, BOXES, CONDUIT, AND WIRING.
- 4 REMOVE ABANDONED 1-1/2" GRS CONDUIT IN TUNNEL. CAP CONDUIT AT WALL PENETRATION.
- 5 REMOVE ABANDONED 36"x8"x8" WIREWAY.
- 6 REMOVE ABANDONED 3" GRS CONDUIT AND BOXES IN ITS ENTIRETY. (FOR BIDDING PURPOSES, INCLUDE REMOVAL OF 100'-0" OF CONDUIT LENGTH IN HOLMSTEDT HALL)
- 7 REMOVE 3" GRS CONDUIT THAT CONTAINS (1) 400 PAIR COPPER CABLE (TO ROOT HALL, 12001-12400). CABLE TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 8 REMOVE EMPTY 3" GRS CONDUIT.
- 9 REMOVE 2" GRS CONDUIT THAT CONTAINS (1) COAX HARDLINE & (1) SMALL COMMUNICATION CABLE. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR PIPE RACK.
- 10 REMOVE ABANDONED 2" GRS CONDUIT WITH APPROX. 3#6 CONDUCTORS.
- 11 REMOVE 2" GRS CONDUIT THAT CONTAINS (1) COAX HARDLINE, (1) YELLOW FIBER, AND (1) INNERDUCT WITH MULTIPLE CABLES. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR CEILING.
- 12 REMOVE 3" GRS CONDUIT THAT CONTAINS (1) 400 PAIR COPPER CABLE (TO ROOT HALL, 12001-12400). CABLE TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR CEILING.



PLAN NOTES

- 13 REMOVE 12"x12"x6"D JUNCTION BOX AND ASSOCIATED CONDUIT AND WIRE (APPROX. 3#6 CONDUCTORS).
- 14 1-1/2" GRS CONDUIT WITH APPROX. 3#8 OR 6 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 15 1-1/4" GRS CONDUIT WITH APPROX. 7#12 OR 10 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 16 1" GRS CONDUIT WITH APPROX. 2#8 OR 6 CONDUCTORS TO BE REMOVED FROM TUNNEL CEILING AND REPLACED WITH NEW, INSTALLED ALONG TUNNEL WALL OR PIPE RACK.
- 17 THERE ARE SEVERAL OPEN-AIR TELECOM TYPE CABLES RUNNING ALONG THE TUNNEL CEILING, STRAPPED TO CONDUITS FOR SUPPORT. PROVIDE J-HOOKS ON TUNNEL WALL OR PIPE RACK FOR SUPPORT OF THESE CABLES. FOR BIDDING PURPOSES, FIGURE A QUANTITY OF (30) APPROX. 1/2" OD MULTI-CONDUCTOR, FIBER, OR HARDLINE COAX CABLES, PLUS (1) 400 PAIR COPPER ANALOG CABLE (TO ROOT HALL, 12001-12400).
- 18 REMOVE 12"x12"x6"D JUNCTION BOX AFTER ALL ASSOCIATED WIRING HAS BEEN REROUTED PER NOTES HEREIN. PROVIDE NEW AS REQUIRED.
- 19 REMOVE 3/4" GRS CONDUIT AND WIRE. SEE ED105.
- 20 REMOVE 1" GRS CONDUIT AND APPROX. 2#10 OR 8 CONDUCTORS.
- 21 1-1/2" GRS CONDUIT WITH APPROX. 4#12 OR 10 CONDUCTORS TO HOLMSTEDT TO REMAIN. REWORK AS REQUIRED TO REFEED DEVICES IN TUNNEL AND BEYOND.
- 22 REMOVE 3" GRS CONDUIT AND ABANDONED MULTI-PAIR COPPER CABLES INTO HOLMSTEDT. (FOR BIDDING PURPOSES, INCLUDE REMOVAL OF 100'-0" OF CONDUIT AND CABLE LENGTH IN HOLMSTEDT HALL)

PLAN NOTES

- 23 1" GRS CONDUIT WITH APPROX. 3#10 OR 8 CONDUCTORS AND JUNCTION BOX TO REMAIN.
- 24 REPLACE 1" GRS CONDUIT WITH APPROX. 3#10 OR 8 CONDUCTORS AND JUNCTION BOX. RECONNECT TO EXISTING WIRING THRU TUNNEL WALL. VERIFY LOAD AND SOURCE.
- 25 PROVIDE CAP ON EXISTING PIPE/CONDUIT (APPROX. 2" OR 3").

DEMOLITION LEGEND:

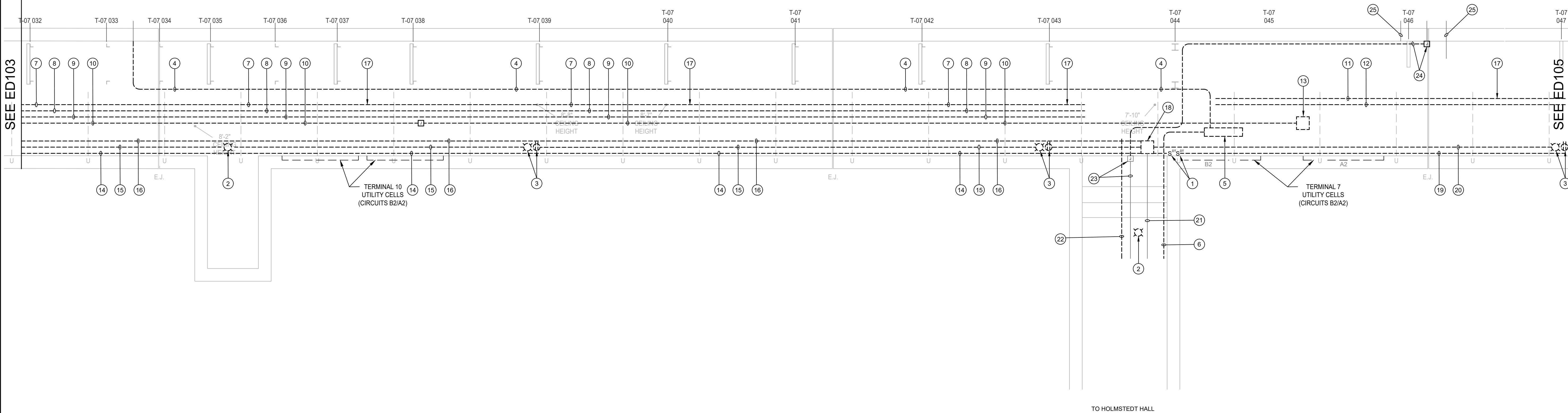
-  WORK TO BE REMOVED
-  WORK TO REMAIN

GENERAL NOTES

1. SEE DRAWING E001

EE

FF

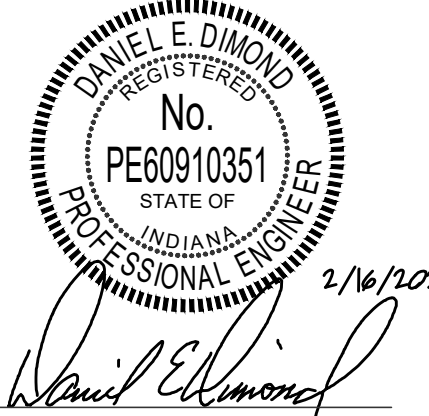


PARTIAL (T-07) TUNNEL PLAN - EE - FF

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



CERTIFIED BY:



REVISIONS:

| NO. | DESCRIPTION | DATE: |
|-----|-------------|----------|
| 1 | ADDENDUM #2 | 3/2/2023 |
| | | |
| | | |
| | | |
| | | |
| | | |

ARSEE ENGINEERS, INC.

CLIENT ORIENTED — BY DESIGN
9715 KINCAID DRIVE, SUITE 100 317/594-5152 PHONE
FISHERS, INDIANA 46037-9459 317/594-9590 FAX

PROJECT DESCRIPTION:

TUNNEL REPAIRS 2023
ISU BID No. B0027822
INDIANA STATE UNIVERSITY
TERRE HAUTE, INDIANA

| | |
|---------------------|-------------------------|
| DRAWN BY: D.E.W. | DESIGNED BY: D.E.W. |
| SCALE: AS NOTED | CHECKED BY: D.E.D. |
| DATE: 2/16/2023 | JOB NO.: D.A. #22063 |

SHEET DESCRIPTION:

(T-07) TUNNEL
PLAN - EE - FF
ELECTRICAL
DEMOLITION

SHEET NUMBER:

ED104

CERTIFIED BY:

DANIEL E. DIMOND

REGISTERED

No.

PE600910351

STATE OF

INDIANA

PROFESSIONAL ENGINEER

2/16/2023

| REVISIONS: | | |
|------------|-------------|----------|
| NO. | DESCRIPTION | DATE: |
| △ | ADDENDUM #2 | 3/2/2023 |
| | | |
| | | |
| | | |
| | | |

ARSEE ENGINEERS, INC.

CLIENT ORIENTED — BY DESIGN

9715 KINCAID DRIVE, SUITE 100

317/594-5152 PHONE

FISHERS, INDIANA 46037-9459

317/594-9590 FAX

PROJECT DESCRIPTION:

TUNNEL REPAIRS 2023
ISU BID No. B0027822
INDIANA STATE UNIVERSITY
TERRE HAUTE, INDIANA

| | | | |
|-----------|-----------|--------------|-------------|
| DRAWN BY: | D.E.W. | DESIGNED BY: | D.E.W. |
| SCALE: | AS NOTED | CHECKED BY: | D.E.D. |
| DATE: | 2/16/2023 | JOB NO.: | D.A. #22063 |

(T-07) TUNNEL
PLAN - FF - GG
ELECTRICAL
DEMOLITION

SHEET NUMBER:

ED105

DEMOLITION LEGEND:

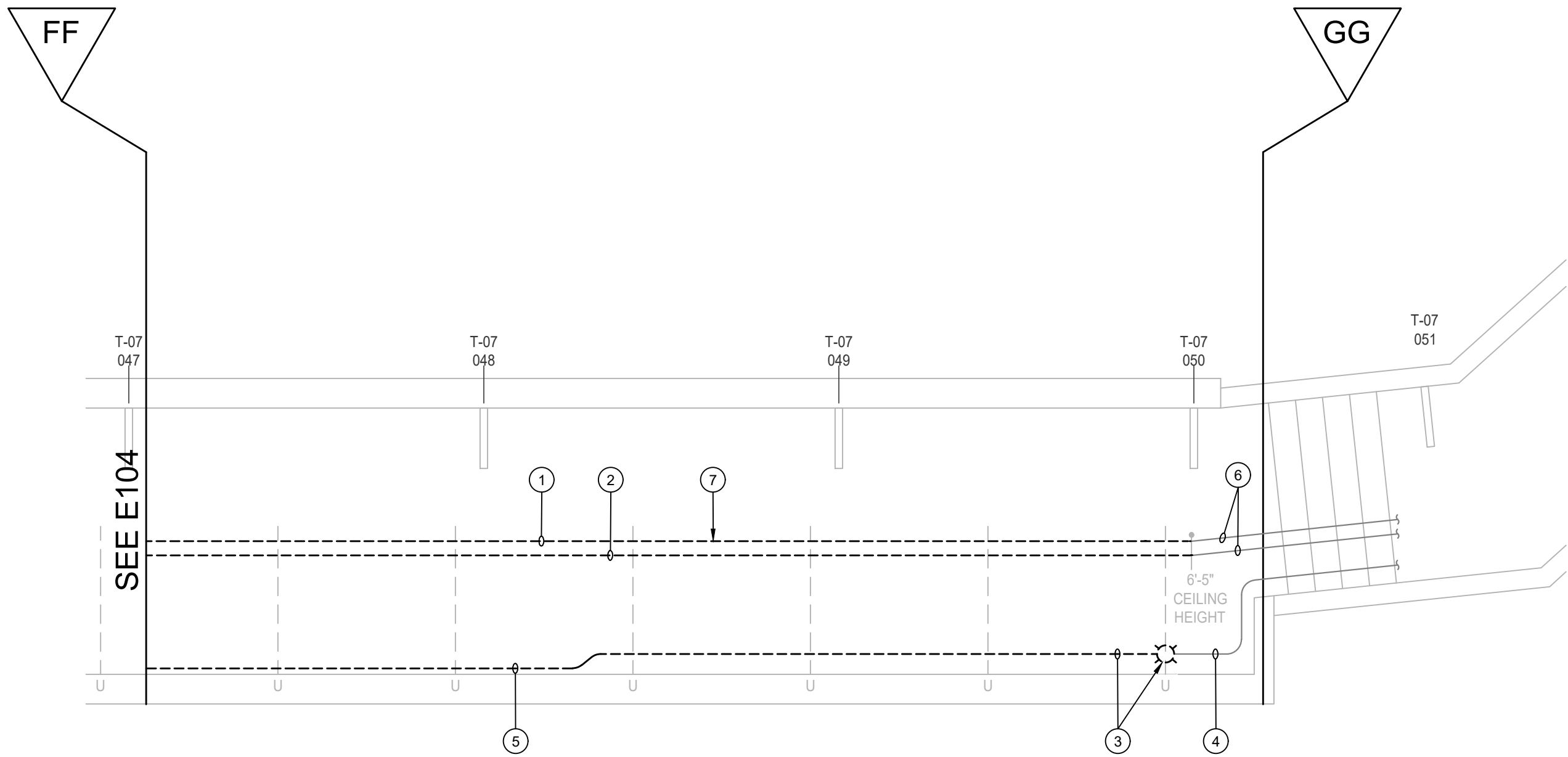
- WORK TO BE REMOVED
- WORK TO REMAIN

GENERAL NOTES

1. SEE DRAWING E001.

PLAN NOTES

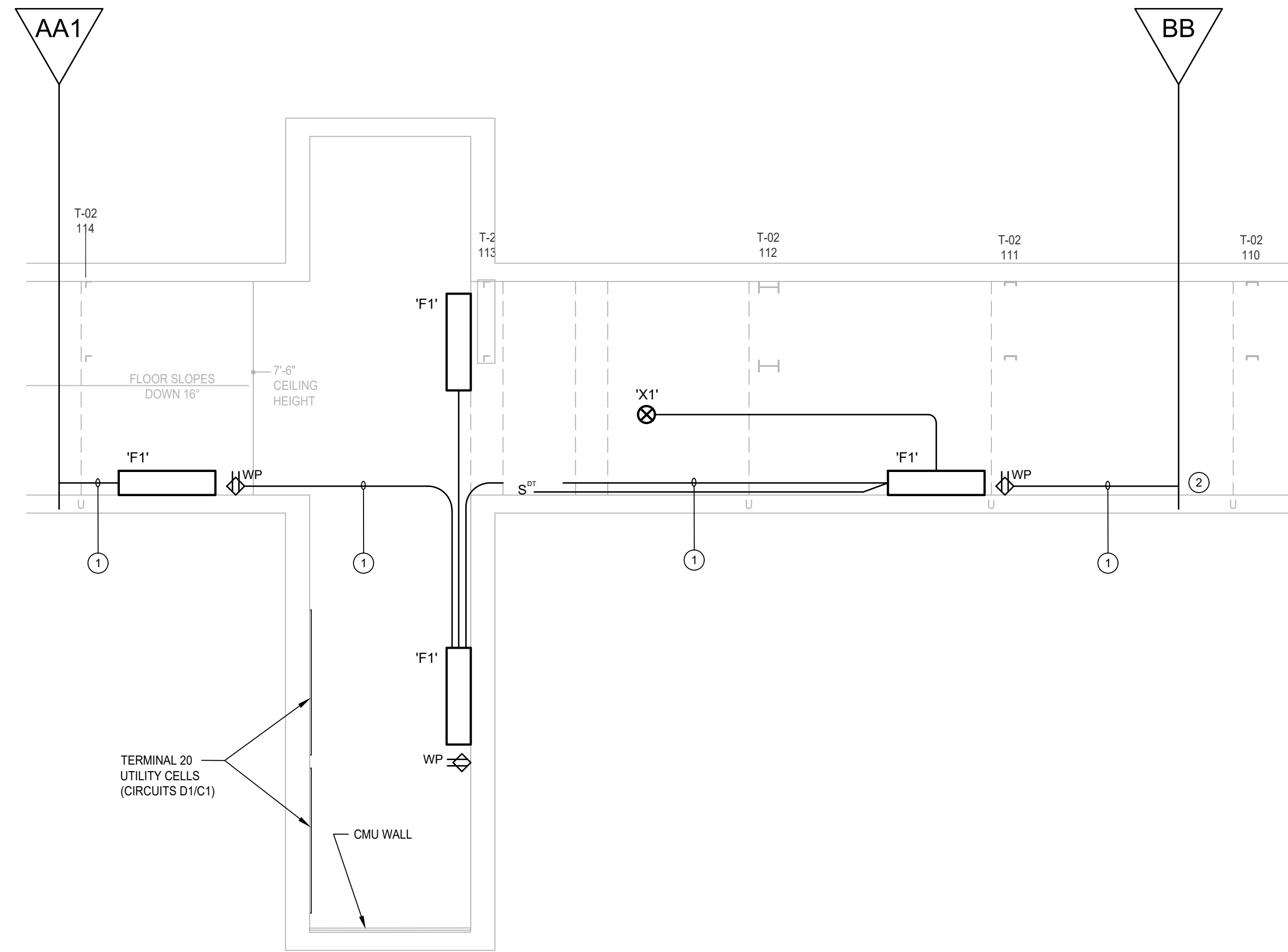
- 1 REMOVE 2" GRS CONDUIT THAT CONTAINS (1) COAX HARDLINE, (1) YELLOW FIBER, AND (1) INNERDUCT WITH MULTIPLE CABLES. CABLES TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR CEILING.
- 2 REMOVE 3" GRS CONDUIT THAT CONTAINS (1) 400 PAIR COPPER CABLE (TO ROOT HALL 12001-12400). CABLE TO REMAIN AND BE SUPPORTED BY NEW J-HOOKS ON TUNNEL WALL OR CEILING.
- 3 REMOVE LAMPHOLDER, LIGHT BULB, BOX, CONDUIT, AND WIRING.
- 4 CONDUIT AND WIRE TO REMAIN. RECONNECT AS REQUIRED.
- 5 REMOVE 3/4" GRS CONDUIT AND WIRE TO SPIN TIMER SWITCH. SEE ED104.
- 6 CONDUIT AND CABLING TO REMAIN. UTILIZE NEAREST FITTING FOR DEMARCATION POINT BETWEEN CONDUIT TO REMAIN VS. CONDUIT TO BE REMOVED.
- 7 THERE ARE SEVERAL OPEN-AIR TELECOM TYPE CABLES RUNNING ALONG THE TUNNEL CEILING. STRAPPED TO CONDUITS FOR SUPPORT. PROVIDE J-HOOKS ON TUNNEL WALL OR CEILING FOR SUPPORT OF THESE CABLES. FOR BIDDING PURPOSES, FIGURE A QUANTITY OF (20) APPROX. 1/2" OD MULTI-CONDUCTOR, FIBER, OR HARDLINE COAX CABLES.



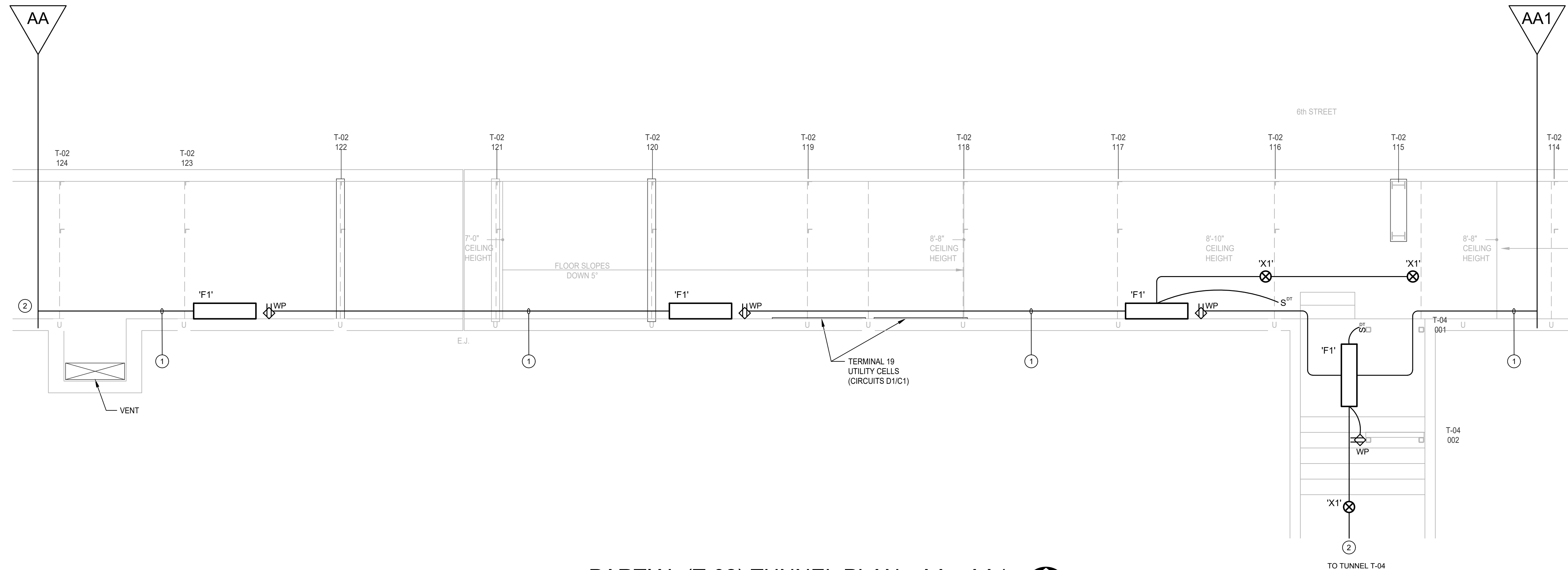
PARTIAL (T-07) TUNNEL PLAN - FF - GG

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

NORTH



PARTIAL (T-02) TUNNEL PLAN - AA1 - BB
SCALE: 1/4" = 1'-0"



PARTIAL (T-02) TUNNEL PLAN - AA - AA1
SCALE: 1/4" = 1'-0"



LIGHT FIXTURES

- 'F1' = 4' LONG LED STRIPLIGHT, FROSTED ACRYLIC LENS, WIREGUARD, 2700 NOMINAL LUMENS, 25 WATTS, 120 V, 3500 K, 5-YEAR WARRANTY. INSTALL HORIZONTAL ON WALL AT 45 DEGREE ANGLE UNDERNEATH OTHER CONDUITS AND J-HOOKS, AT APPROX. 6'-0" AFF. USE 1/8" x 2" MOUNTING BRACKETS BENT AT 45 DEGREE ANGLE AND ANCHORED TO WALL WITH 1/4" DIAMETER CONCRETE WALL ANCHORS NEAR EACH END AT FIXTURE. MATCH INSTALLATION IN RECENTLY RENOVATED PART OF TUNNEL T-02. METALUX #45NLED-LD5-27SL-LW-UNV-L835-CD1/U/WG/SNF-4FT-8 OR COLUMBIA MPS SERIES.
- 'X1' = EXIT LIGHT. SEE SPEC SECTION 26 53 00.

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

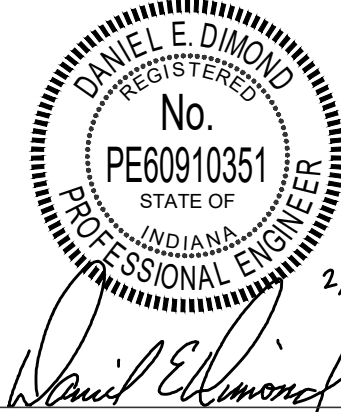
GENERAL NOTES

- SEE DRAWING E001.
- ALL RACEWAY IN TUNNEL SHALL BE MINIMUM 3/4" GRS.
- RECEPTACLES SHALL BE DUPLEX GFCI TYPE WITH WEATHERPROOF COVER. INSTALL AT 48" AFF TO BOTTOM. HUBBELL GF5362 W/ WPFS26 OR MATCH EXISTING IN NEWER TUNNEL SECTION. PROVIDE DIE CAST FS BOX.
- ALL WIRING SHALL BE STRANDED COPPER WITH TYPE THHN/THWN/THWN-2 INSULATION.
- SEE DRAWING ED101 FOR ADDITIONAL WORK.

PLAN NOTES

- PROVIDE MINIMUM #6 CONDUCTORS IN CONDUIT FOR LIGHTS AND RECEPTACLES. CONNECT TO EXISTING CIRCUITS THAT SERVE EXISTING LIGHTS AND RECEPTACLES.
- CONNECT TO EXISTING WIRING.

CERTIFIED BY:



REVISIONS:

| NO. | DESCRIPTION | DATE: |
|-----|-------------|----------|
| 1 | ADDENDUM #2 | 3/2/2023 |
| | | |
| | | |
| | | |
| | | |

ARSEE ENGINEERS, INC.

CLIENT ORIENTED — BY DESIGN
9715 KINCAID DRIVE, SUITE 100 317/594-5152 PHONE
FISHERS, INDIANA 46037-9459 317/594-9590 FAX

PROJECT DESCRIPTION:

TUNNEL REPAIRS 2023
ISU BID No. B0027822
INDIANA STATE UNIVERSITY
TERRE HAUTE, INDIANA

| | | | |
|-----------|-----------|--------------|-------------|
| DRAWN BY: | D.E.W. | DESIGNED BY: | D.E.W. |
| SCALE: | AS NOTED | CHECKED BY: | D.E.D. |
| DATE: | 2/16/2023 | JOB NO.: | D.A. #22063 |

SHEET DESCRIPTION:

(T-02) TUNNEL
PLAN - AA - BB
ELECTRICAL
(ALTERNATE #2)

SHEET NUMBER:

E101

THESE DRAWINGS AND SPECIFICATIONS, AND ALL COPIES THEREOF ARE AND SHALL REMAIN THE PROPERTY AND COPYRIGHT OF THE ENGINEER. THEY SHALL BE USED ONLY WITH RESPECT TO THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT OR WORK WITHOUT PRIOR WRITTEN PERMISSION FROM THE ENGINEER.

CERTIFIED BY:

DANIEL E. DIMOND
REGISTERED
No.
PE600910351
STATE OF
INDIANA
PROFESSIONAL ENGINEER

2/16/2023

Daniel E. Dimond

REVISIONS:

| NO. | DESCRIPTION | DATE: |
|-----|-------------|----------|
| △ | ADDENDUM #2 | 3/2/2023 |
| | | |
| | | |
| | | |
| | | |

ARSEE ENGINEERS, INC.

CLIENT ORIENTED — BY DESIGN

9715 KINCAID DRIVE, SUITE 100 317/594-5152 PHONE
FISHERS, INDIANA 46037-9459 317/594-9590 FAX

PROJECT DESCRIPTION:

TUNNEL REPAIRS 2023
ISU BID No. B0027822
INDIANA STATE UNIVERSITY
TERRE HAUTE, INDIANA

| | | | |
|-----------|-----------|--------------|-------------|
| DRAWN BY: | D.E.W. | DESIGNED BY: | D.E.W. |
| SCALE: | AS NOTED | CHECKED BY: | D.E.D. |
| DATE: | 2/16/2023 | JOB NO.: | D.A. #22063 |

(T-07) TUNNEL
PLAN - CC - DD
-
ELECTRICAL

SHEET NUMBER:

E102

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES

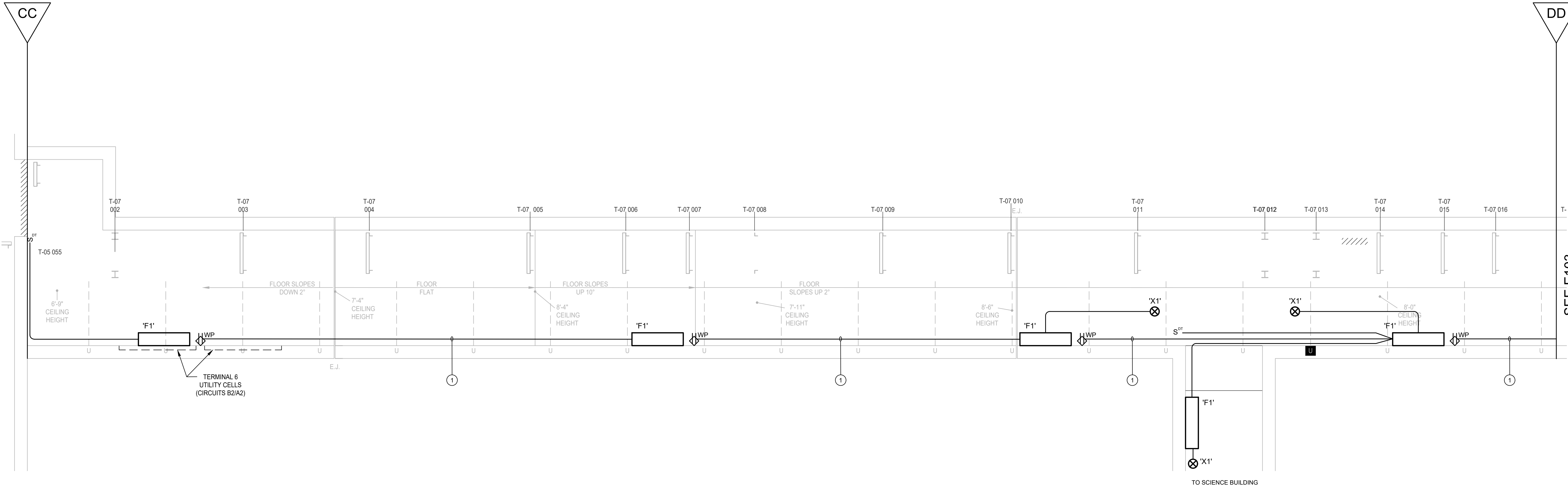
- SEE DRAWING E001.
- ALL RACEWAY IN TUNNEL SHALL BE MINIMUM 3/4" GRS.
- RECEPTACLES SHALL BE DUPLEX GFCI TYPE WITH WEATHERPROOF COVER. INSTALL AT 48" AFF TO BOTTOM. HUBBELL GF5362 W/ WPF526 OR MATCH EXISTING IN NEWER TUNNEL SECTION. PROVIDE DIE CAST FS BOX.
- ALL WIRING SHALL BE STRANDED COPPER WITH TYPE THHN/THWN/THWN-2 INSULATION.
- SEE DRAWING ED102 FOR ADDITIONAL WORK.

PLAN NOTES

- PROVIDE MINIMUM #6 CONDUCTORS IN CONDUIT FOR LIGHTS AND RECEPTACLES. CONNECT TO EXISTING CIRCUITS THAT SERVE EXISTING LIGHTS AND RECEPTACLES.

LIGHT FIXTURES


- 'F1' = 4' LONG LED STRIPLIGHT, FROSTED ACRYLIC LENS, WIREGUARD, 2700 NOMINAL LUMENS, 25 WATTS, 120 V, 3500 K, 5-YEAR WARRANTY. INSTALL HORIZONTAL ON WALL AT 45 DEGREE ANGLE UNDERNEATH OTHER CONDUITS AND J-HOOKS, AT APPROX. 6'-0" AFF. USE 1/8" x 2" MOUNTING BRACKETS BENT AT 45 DEGREE ANGLE AND ANCHORED TO WALL WITH 1/4" DIAMETER CONCRETE WALL ANCHORS NEAR EACH END AT FIXTURE. MATCH INSTALLATION IN RECENTLY RENOVATED PART OF TUNNEL T-02. METALUX #4SNLED-LD5-27SL-LW-UNV-L835-CD1/U/WG/SNF-4FT-8 OR COLUMBIA MPS SERIES.
- 'X1' = EXIT LIGHT. SEE SPEC SECTION 26 53 00.




PARTIAL (T-07) TUNNEL PLAN - CC - DD
SCALE: 1/4" = 1'-0"
NORTH

THESE DRAWINGS AND SPECIFICATIONS, AND ALL COPIES THEREOF ARE AND SHALL REMAIN THE PROPERTY AND COPYRIGHT OF THE ENGINEER. THEY SHALL BE USED ONLY WITH RESPECT TO THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT OR WORK WITHOUT PRIOR WRITTEN PERMISSION FROM THE ENGINEER.

CERTIFIED BY:



2/16/2023



| REVISIONS: | | |
|------------|-------------|----------|
| NO. | DESCRIPTION | DATE: |
| △ | ADDENDUM #2 | 3/2/2023 |
| | | |
| | | |
| | | |
| | | |

ARSEE ENGINEERS, INC.

CLIENT ORIENTED — BY DESIGN

9715 KINCAID DRIVE, SUITE 100 317/594-5152 PHONE
FISHERS, INDIANA 46037-9459 317/594-9590 FAX

PROJECT DESCRIPTION:

TUNNEL REPAIRS 2023
ISU BID No. B0027822
INDIANA STATE UNIVERSITY
TERRE HAUTE, INDIANA

| | | | |
|-----------|-----------|--------------|-------------|
| DRAWN BY: | D.E.W. | DESIGNED BY: | D.E.W. |
| SCALE: | AS NOTED | CHECKED BY: | D.E.D. |
| DATE: | 2/16/2023 | JOB NO.: | D.A. #22063 |

(T-07) TUNNEL
PLAN - DD - EE
-
ELECTRICAL

SHEET NUMBER:

E103

RENOVATION LEGEND:

- WORK TO BE INSTALLED
- WORK TO REMAIN

GENERAL NOTES

1. SEE DRAWING E001.
2. ALL RACEWAY IN TUNNEL SHALL BE MINIMUM 3/4" GRS.
3. RECEPTACLES SHALL BE DUPLEX GFCI TYPE WITH WEATHERPROOF COVER. INSTALL AT 48" AFF TO BOTTOM. HUBBELL GF5362 W/ WPF526 OR MATCH EXISTING IN NEWER TUNNEL SECTION. PROVIDE DIE CAST FS BOX.
4. ALL WIRING SHALL BE STRANDED COPPER WITH TYPE THHN/THWN/THWN-2 INSULATION.
5. SEE DRAWING ED103 FOR ADDITIONAL WORK.

PLAN NOTES

- ① PROVIDE MINIMUM #6 CONDUCTORS IN CONDUIT FOR LIGHTS AND RECEPTACLES. CONNECT TO EXISTING CIRCUITS THAT SERVE EXISTING LIGHTS AND RECEPTACLES.

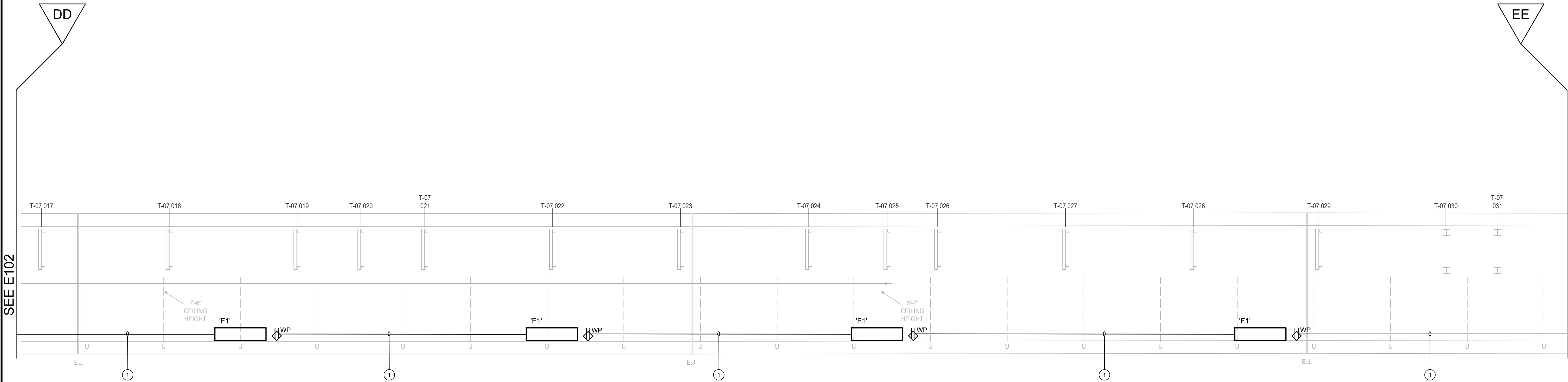
LIGHT FIXTURES

1. 'F1' = 4' LONG LED STRIPLIGHT, FROSTED ACRYLIC LENS, WIREGUARD, 2700 NOMINAL LUMENS, 25 WATTS, 120 V, 3500 K, 5-YEAR WARRANTY. INSTALL HORIZONTAL ON WALL AT 45 DEGREE ANGLE UNDERNEATH OTHER CONDUITS AND J-HOOKS, AT APPROX. 6'-0" AFF. USE 1/8" x 2" MOUNTING BRACKETS BENT AT 45 DEGREE ANGLE AND ANCHORED TO WALL WITH 1/4" DIAMETER CONCRETE WALL ANCHORS NEAR EACH END AT FIXTURE. MATCH INSTALLATION IN RECENTLY RENOVATED PART OF TUNNEL T-02. METALUX #45NLED-LD5-27SL-LW-UNV-L835-CD1/U/WG/SNF-4FT-8 OR COLUMBIA MPS SERIES.
2. 'X1' = EXIT LIGHT. SEE SPEC SECTION 26 53 00.

PARTIAL (T-07) TUNNEL PLAN - DD - EE


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


NORTH



THESE DRAWINGS AND SPECIFICATIONS, AND ALL COPIES THEREOF ARE AND SHALL REMAIN THE PROPERTY AND COPYRIGHT OF THE ENGINEER. THEY SHALL BE USED ONLY WITH RESPECT TO THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT OR WORK WITHOUT PRIOR WRITTEN PERMISSION FROM THE ENGINEER.

CERTIFIED BY:


Daniel E. Dimond

| REVISIONS: | | |
|------------|-------------|----------|
| NO. | DESCRIPTION | DATE: |
| △ | ADDENDUM #2 | 3/2/2023 |
| | | |
| | | |
| | | |
| | | |

ARSEE ENGINEERS, INC.
CLIENT ORIENTED — BY DESIGN
9715 KINCAID DRIVE, SUITE 100 317/594-5152 PHONE
FISHERS, INDIANA 46037-9459 317/594-9590 FAX

PROJECT DESCRIPTION:

TUNNEL REPAIRS 2023
ISU BID No. B0027822
INDIANA STATE UNIVERSITY
TERRE HAUTE, INDIANA



| | | | |
|-----------|-----------|--------------|-------------|
| DRAWN BY: | D.E.W. | DESIGNED BY: | D.E.W. |
| SCALE: | AS NOTED | CHECKED BY: | D.E.D. |
| DATE: | 2/16/2023 | JOB NO.: | D.A. #22063 |

(T-07) TUNNEL
PLAN - EE - FF
-
ELECTRICAL

SHEET NUMBER:

E104

RENOVATION LEGEND:

-  WORK TO BE INSTALLED
-  WORK TO REMAIN

GENERAL NOTES

- SEE DRAWING E001.
- ALL RACEWAY IN TUNNEL SHALL BE MINIMUM 3/4" GRS.
- RECEPTACLES SHALL BE DUPLEX GFCI TYPE WITH WEATHERPROOF COVER. INSTALL AT 48" AFF TO BOTTOM. HUBBELL GF5362 W/ WPF526 OR MATCH EXISTING IN NEWER TUNNEL SECTION. PROVIDE DIE CAST FS BOX.
- ALL WIRING SHALL BE STRANDED COPPER WITH TYPE THHN/THWN/THWN-2 INSULATION.
- SEE DRAWING ED104 FOR ADDITIONAL WORK.

PLAN NOTES

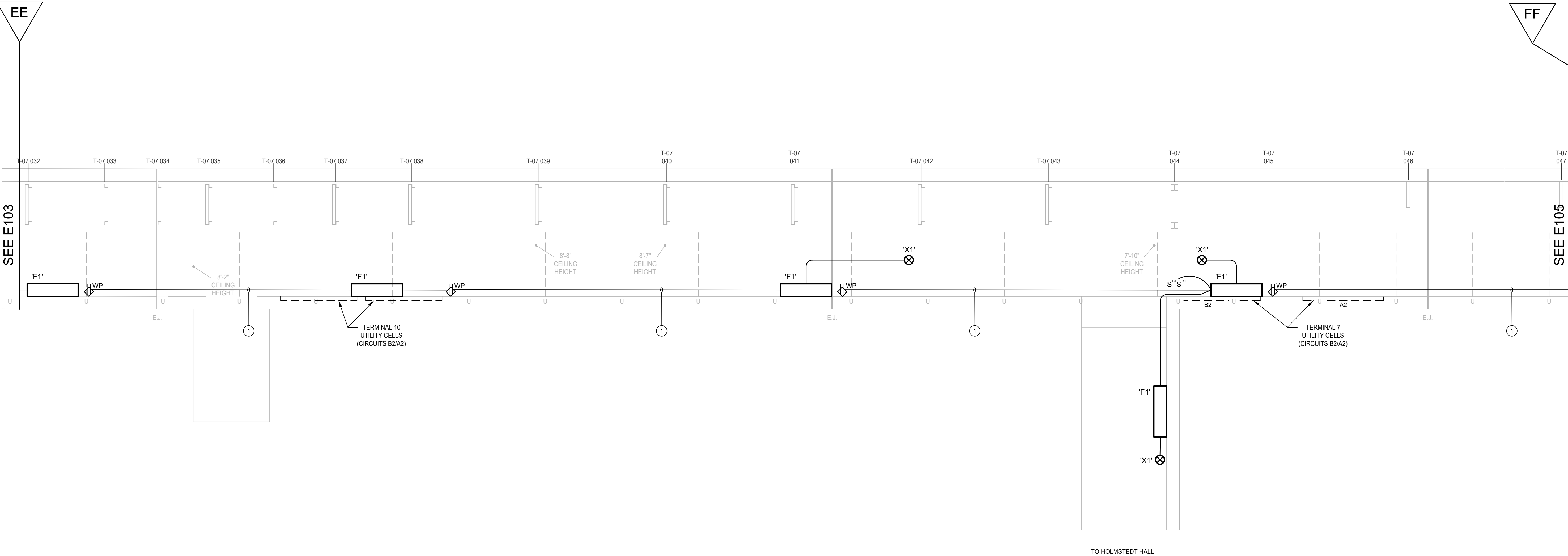
- PROVIDE MINIMUM #6 CONDUCTORS IN CONDUIT FOR LIGHTS AND RECEPTACLES. CONNECT TO EXISTING CIRCUITS THAT SERVE EXISTING LIGHTS AND RECEPTACLES.

LIGHT FIXTURES

- 'F1' = 4' LONG LED STRIPLIGHT, FROSTED ACRYLIC LENS, WIREGUARD, 2700 NOMINAL LUMENS, 25 WATTS, 120 V, 3500 K, 5-YEAR WARRANTY. INSTALL HORIZONTAL ON WALL AT 45 DEGREE ANGLE UNDERNEATH OTHER CONDUITS AND J-HOOKS, AT APPROX. 6'-0" AFF. USE 1/8" x 2" MOUNTING BRACKETS BENT AT 45 DEGREE ANGLE AND ANCHORED TO WALL WITH 1/4" DIAMETER CONCRETE WALL ANCHORS NEAR EACH END AT FIXTURE. MATCH INSTALLATION IN RECENTLY RENOVATED PART OF TUNNEL T-02. METALUX #4SNLED-LD5-27SL-LW-UNV-L835-CD1/U/WG/SNF-4FT-8 OR COLUMBIA MPS SERIES.
- 'X1' = EXIT LIGHT. SEE SPEC SECTION 26 53 00.

PARTIAL (T-07) TUNNEL PLAN - EE - FF

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





E105