

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

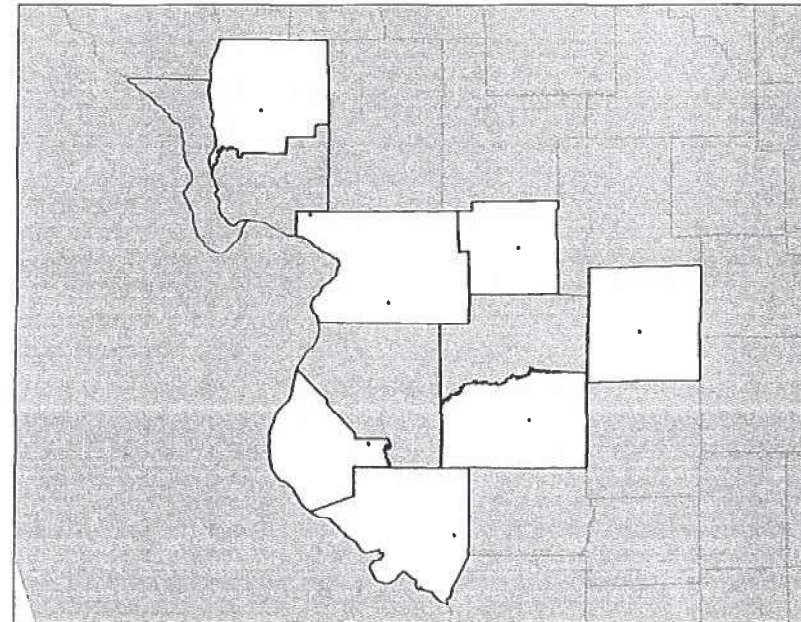
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------------------|---------|--------------------|-----------|
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 1 |
| ILLINOIS | | | CONTRACT NO. 76T67 | |

FOR INDEX OF SHEETS, SEE SHEET NO. 2

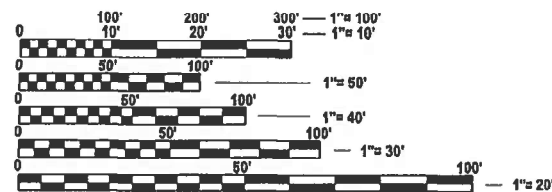
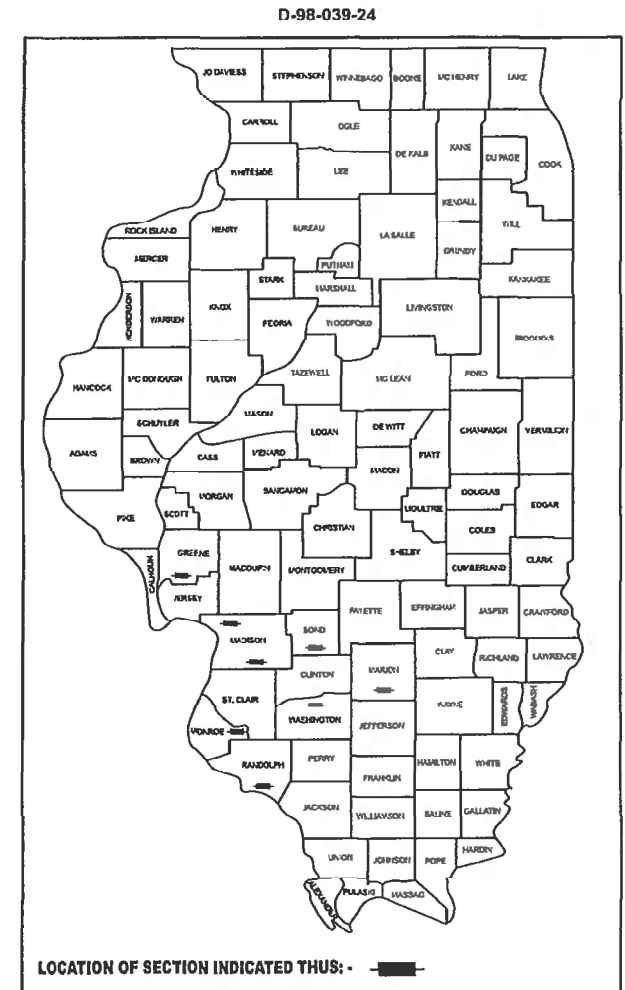
PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
SECTION DIST 8 GPS BS 2024
PROJECT ADCMS-2PF1(185)
CONSTRUCT GPS BASE STATIONS AT VARIOUS
MAINTENANCE YARDS
VARIOUS COUNTIES

C-98-101-24



LOCATION MAP



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER TIFFANY BRASE
PROJECT MANAGER CHERYL KEPLAR

CONTRACT NO. 76T67

GROSS LENGTH = FT. = MILE
NET LENGTH = FT. = MILE

PROFESSIONAL ENGINEER'S SIGN & SEAL
FOR SHEETS: *B.D.L.*
BRENDA D. LOWERY, P.E.
EXPIRES 8-30-2025
6-17-24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *June 15, 2024*
K. B. Brase
REGIONAL ENGINEER

August 16, 2024
S. E. A. Clark
ENGINEER OF DESIGN AND ENVIRONMENT

August 16, 2024
Brenda D. Lowery
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

| | |
|-------|--|
| 1 | COVER SHEET |
| 2 | INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES |
| 3-4 | SUMMARY OF QUANTITIES |
| 5-12 | MAINTENANCE YARD GPS PLAN |
| 13 | WIRING DIAGRAM |
| 14-16 | DETAILS |

HIGHWAY STANDARDS

| | |
|-----------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 701901-09 | TRAFFIC CONTROL DEVICES |
| 805001-01 | ELECTRICAL SERVICE INSTALLATION DETAILS |
| 878001-11 | CONCRETE FOUNDATION DETAILS |

COMMITMENTS:

NONE:

GENERAL NOTES

- NOTIFICATION SHALL BE MADE TO THE AGENCIES AND UTILITIES AT LEAST 10 DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES IN REGARDS TO THEIR FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL EMERGENCY SERVICE, PUBLIC WORKS DEPARTMENTS AND OTHER AGENCIES AFFECTED BY THE CONTRACTOR'S WORK. ANY NOTIFICATION TO ANY AGENCY MUST BE MADE THROUGH THE CONSTRUCTION MANAGER.
- YARD ACCESS IS AVAILABLE MONDAY THROUGH FRIDAY FROM 7:00 AM TO 3:30 PM. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR ACCESS TO A YARD.
- ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:
 - AMEREN ILLINOIS ELECTRIC
 - AT&T
 - BI-STATE DEVELOPMENT AGENCY
 - CHARTER/SPECTRUM COMM
 - CITY OF EAST ST. LOUIS
 - CLEARWAVE COMMUNICATIONS
 - IL AMERICAN WATER EAST ST. LOUIS
 - LEVEL 3 (CENTURYLINK)
 - MCI/VERIZON
 - MEDIACOM
 - SPIRE NGL INC
 - STAKE CENTER LOCATING
 - USIC LOCATING SERVICES
 - WINDSTREAM KDL/MCLEOD USA
 - ZAYO FIBER SOLUTIONS
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUBCONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ECT.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 619-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN THE MEETING WORKFORCE AND TRAINEE GOALS.
- THE ADDRESSES FOR EACH YARD'S WHERE THE WORK IS BEING COMPLETED ARE AS FOLLOWS:
 - CARROLTON YARD
1091 N MAIN ST.
CARROLTON, IL 62016
CONTACT: NATHAN VARBLE
 - GODFREY YARD
8411 LAGEMAN RD
GODFREY, IL 62035
CONTACT: CRAIG POETTCKER
 - GREENVILLE YARD
1500 SOUTH 4TH STREET
GREENVILLE, IL 62246
CONTACT: JACOB CUFF
 - HECKER YARD
8272 NIKE ROAD
RED BUD, IL 62278
CONTACT: MARK HARRIS
 - NASHVILLE YARD
9571 IDOT SHED ROAD
NASHVILLE, IL 62263
CONTACT: PATRICK HELLER
 - SALEM YARD
707 S. MARION ST.
SALEM, IL 62881
CONTACT: PATRICK HELLER
 - STEELEVILLE YARD
700 NORTH CHERRY
STEELEVILLE, IL 62288
CONTACT: PATRICK HELLER
 - TROY YARD
7586 US HIGHWAY 40
TROY, IL 62294
CONTACT: TODD BURNS
- CONTRACTOR STAFF SHALL DO ALL INSTALLATION AND PROVIDE INITIAL CONNECTIVITY WITH ALL CABLING AND CONNECTIONS. IDOT STAFF WILL PERFORM THE PRECISION INSTALLATION OF THE ZEPHYR ANTENNA AND THE INTERNAL CONFIGURATION OF THE ALLOY RECEIVER ONCE IT IS CONFIRMED THAT ALL CABLING AND CONNECTIONS ARE FUNCTIONAL.
- ANY REPARATIONS NEEDED TO THE PARKING LOT(S) WILL BE PAID FOR AS 109.04.
- TRIMBLE ALLOY RECEIVER AND ZEPHYR ANTENNA SHALL BE PROVIDED BY IDOT. THE COST TO INSTALL THIS EQUIPMENT IS INCLUDED IN GPS ANTENNA TOWER 14' PAY ITEM.
- THE EXISTING UTILITIES SHOWN IN THE PLANS AT EACH OPERATIONS YARD IS APPROXIMATE. THE CONTRACTOR SHALL HAVE THE UTILITIES LOCATED PRIOR TO PLACEMENT OF FOUNDATIONS, CONCRETE PADS, CONDUITS, ETC.
- THE QUANTITIES OF CABLE AND CONDUIT WHERE INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.

REV - MS

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| | | |
|---------------------------|-------------------|-----------|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - |
| | DRAWN - MD | REVISED - |
| PLOT SCALE = 2.000' / in. | CHECKED - BL | REVISED - |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - |

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| FA RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------------------|---------|--------------|-----------|
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 2 |
| CONTRACT NO. 76T67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | | | | | | |
|----------|--|-------|----------------|----------------------|-----------|------------|-----------|-----------|-----------|-------------|-----------|-----------|
| | | | | 80% FED 20% STATE | | | | | | | | |
| | | | | CARROLLTON | GODFREY | GREENVILLE | HECKER | NASHVILLE | SALEM | STEELEVILLE | TROY | |
| | | | | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 399 | | 111 | 89 | 22 | 61 | 72 | 22 | 22 | |
| 25000210 | SEEDING, CLASS 2A | ACRE | 0.09 | | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 9 | | 2 | 2 | 1 | 1 | 1 | 1 | 1 | |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 9 | | 2 | 2 | 1 | 1 | 1 | 1 | 1 | |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 9 | | 2 | 2 | 1 | 1 | 1 | 1 | 1 | |
| 25100105 | MULCH, METHOD 1 | ACRE | 0.09 | | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | |
| 67100100 | MOBILIZATION | L SUM | 1 | | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 |
| 80400100 | ELECTRIC SERVICE INSTALLATION | EACH | 1 | | | 1 | | | | | | |
| 81028200 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 497 | | 40 | 40 | 13 | 37 | 263 | 4 | 10 | 90 |
| 81100100 | CONDUIT ATTACHED TO STRUCTURE, 1/2" DIA., GALVANIZED STEEL | FOOT | 371 | | 36 | | 81 | 60 | | 8 | 21 | 165 |
| 81100300 | CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL | FOOT | 519 | | 80 | 31 | 41 | 65 | 100 | 38 | 104 | 60 |
| 81100600 | CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL | FOOT | 217 | | 32 | 28 | 20 | 43 | 20 | 14 | 20 | 40 |
| 81300945 | JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 8" | EACH | 7 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 |
| 81702450 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10 | FOOT | 567 | | 86 | 37 | 47 | 71 | 106 | 44 | 110 | 66 |

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AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

| | | |
|---------------------------|-------------------|-----------|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - |
| | DRAWN - MD | REVISED - |
| PLOT SCALE = 2,000' / in. | CHECKED - BL | REVISED - |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------------------|---------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 3 |
| CONTRACT NO. 76T67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | | | | | | | | |
|----------|--|-------|----------------|----------------------|-----------|------------|-----------|-----------|-----------|-------------|-----------|-----------|
| | | | | 80% FED 20% STATE | | | | | | | | |
| | | | | CARROLLTON | GODFREY | GREENVILLE | HECKER | NASHVILLE | SALEM | STEELEVILLE | TROY | |
| | | | | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 | NONE 0044 |
| 87800100 | CONCRETE FOUNDATION, TYPE A | FOOT | 4 | | 4 | | | | | | | |
| 87800400 | CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER | FOOT | 120 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| X0321309 | CONCRETE PAD | SQ YD | 99 | 12.25 | 13.25 | 12.25 | 12.25 | 12.25 | 12.25 | 12.25 | 12.25 | 12.25 |
| X0324063 | GPS ANTENNA TOWER 14' | EACH | 8 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| X0326263 | EQUIPMENT CABINET | EACH | 1 | | 1 | | | | | | | |
| X0326812 | CAT 5 ETHERNET CABLE | FOOT | 663 | 37.5 | 11.5 | 82.5 | 61.5 | 271.5 | 9.5 | 22.5 | 166.5 | |
| X8730571 | ELECTRIC CABLE IN CONDUIT, COAXIAL | FOOT | 702 | 97.5 | 86 | 58.5 | 105.5 | 100 | 43.5 | 55.5 | 155.5 | |
| XP000131 | 15A CIRCUIT BREAKER, 1P | EACH | 1 | | 1 | | | | | | | |
| Z0004002 | BOLLARDS | EACH | 71 | 8 | 15 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

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AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

| | | |
|---------------------------|-------------------|-----------|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - |
| DRAWN - MD | CHECKED - BL | REVISED - |
| PLOT SCALE = 2,000' / in. | DATE - 05-24-2024 | REVISED - |
| PLOT DATE = 5/22/2024 | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

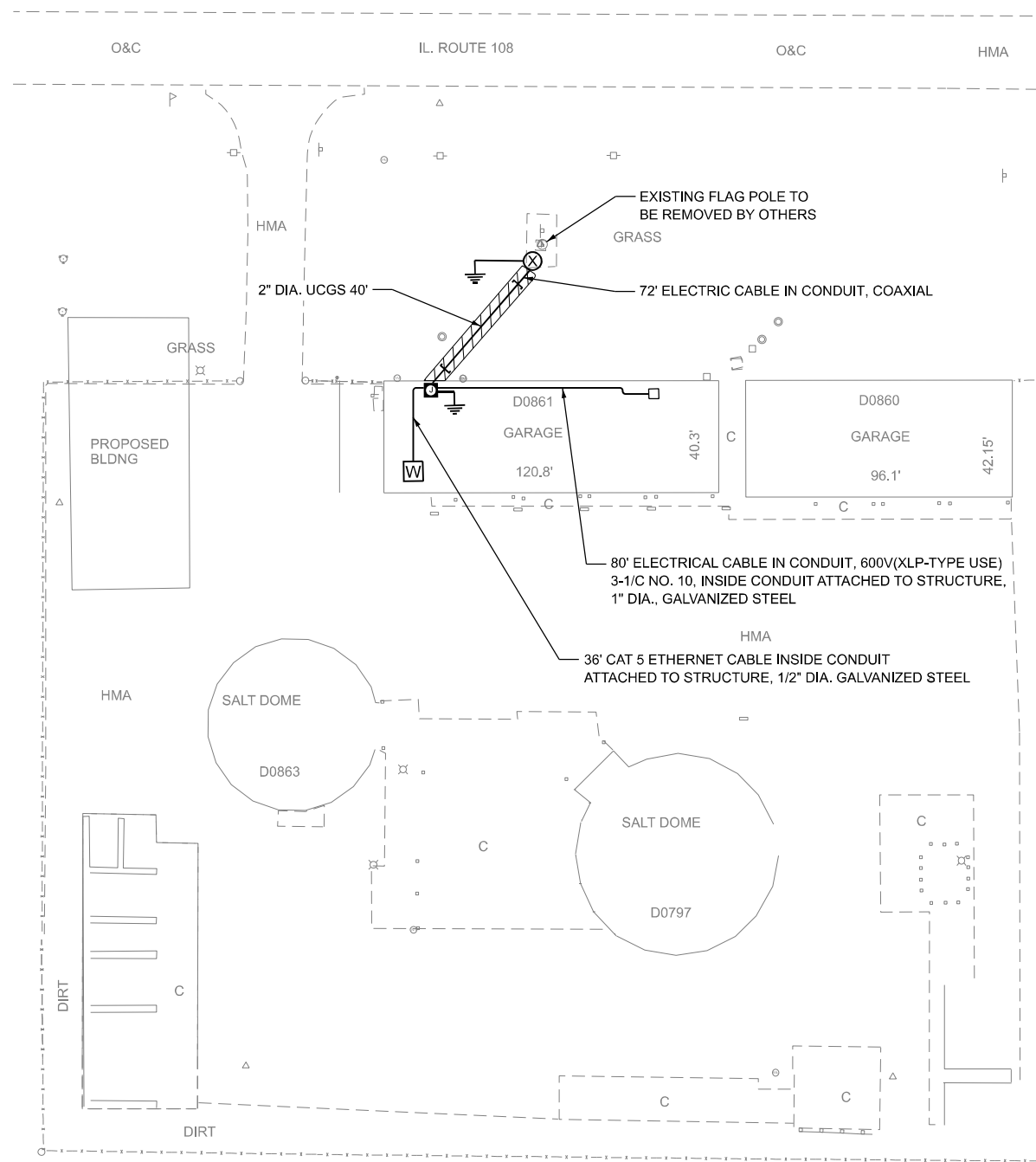
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|--------------------|---------------------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 4 |
| CONTRACT NO. 76T67 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |



LEGEND

- EXISTING BREAKER BOX
- ▣ JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24"X24"X8"
- Ⓜ EXISTING INTERNET / ROUTER DEVICE (WIFI)
- ⊗ PROPOSED GPS ANTENNA TOWER 14'
- ⌚ GROUND ROD
- ▨ NITROGEN FERTILIZER NUTRIENT
PHOSPOROUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
MULCH, METHOD 1



NOTES

1. THE JUNCTION BOX ATTACHED TO STRUCTURE CONSISTS OF TRIMBLE RECEIVER, SURGE PROTECTOR, AND ASSOCIATED HARDWARE MOUNTED WITHIN.
2. FOR FOUNDATION AND GPS ANTENNA TOWER 14' DETAILS, SEE SHEETS 14 AND 15.
3. THE POWER CABLE FROM THE EXISTING BREAKER BOX SHALL BE CONNECTED TO AN EXISTING 15 AMP SINGLE POLE BREAKER. IF A NEW IS AMP BREAKER IS REQUIRE, THIS SHALL BE PAID FOR XP000131 15A CIRCUIT BREAKER IP.
4. DISTURBED GRASS AREAS SHALL BE RESTORED, TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A.

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AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

| | | | |
|-----------------------------|-------------------|-----------|--|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - | |
| | DRAWN - MD | REVISED - | |
| PLOT SCALE = 60,000' / 1" = | CHECKED - BL | REVISED - | |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CARROLLTON OPERATIONS YARD-GREENE COUNTY
1091 N MAIN ST, CARROLLTON, IL 62016

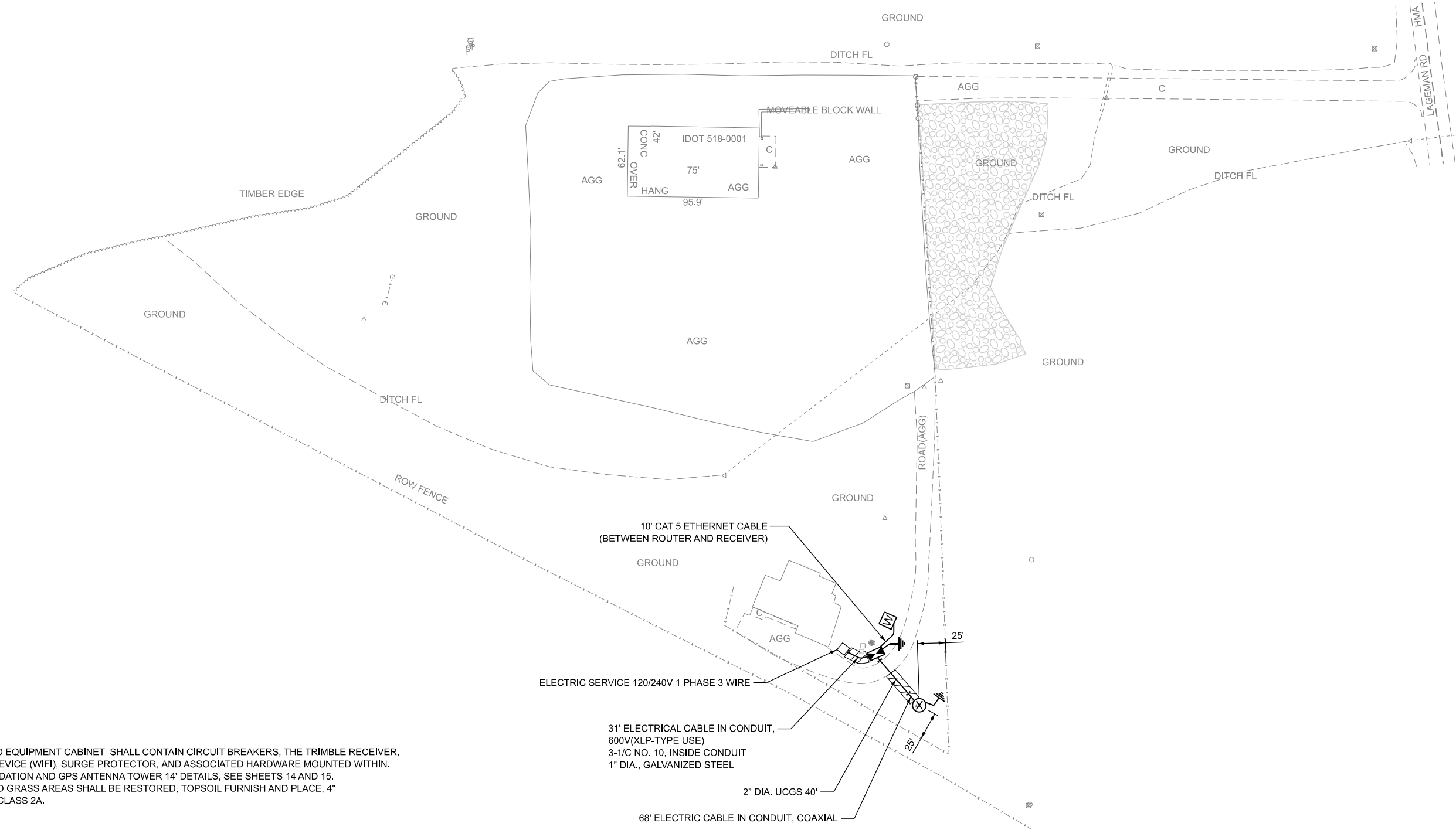
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------------|---------|------------------|-----------|
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 5 |
| CONTRACT NO. 76T67 | | | | |
| ILLINOIS | | | FED. AID PROJECT | |



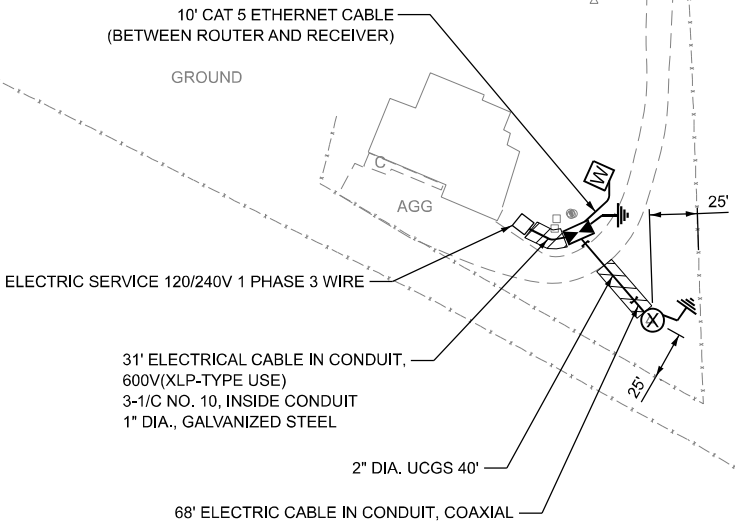
LEGEND

- EXISTING ELECTRIC SERVICE POLE
- ▣ PROPOSED EQUIPMENT CABINET
- Ⓜ PROPOSED INTERNET / ROUTER DEVICE (WIFI), IN EQUIPMENT CABINET
- ⊗ PROPOSED GPS ANTENNA TOWER 14'
- ⚡ GROUND ROD
- ▨ NITROGEN FERTILIZER NUTRIENT
- ▩ PHOSPOROUS FERTILIZER NUTRIENT
- ▧ POTASSIUM FERTILIZER NUTRIENT
- ▦ MULCH, METHOD 1



NOTES

1. PROPOSED EQUIPMENT CABINET SHALL CONTAIN CIRCUIT BREAKERS, THE TRIMBLE RECEIVER, ROUTER DEVICE (WIFI), SURGE PROTECTOR, AND ASSOCIATED HARDWARE MOUNTED WITHIN.
2. FOR FOUNDATION AND GPS ANTENNA TOWER 14' DETAILS, SEE SHEETS 14 AND 15.
3. DISTURBED GRASS AREAS SHALL BE RESTORED, TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A.



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| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - |
| | DRAWN - MD | REVISED - |
| PLOT SCALE = 100,000' / in. | CHECKED - BL | REVISED - |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GODFREY OPERATIONS YARD-MADISON COUNTY
8411 LAGEMAN RD, GODFREY, IL 62035**

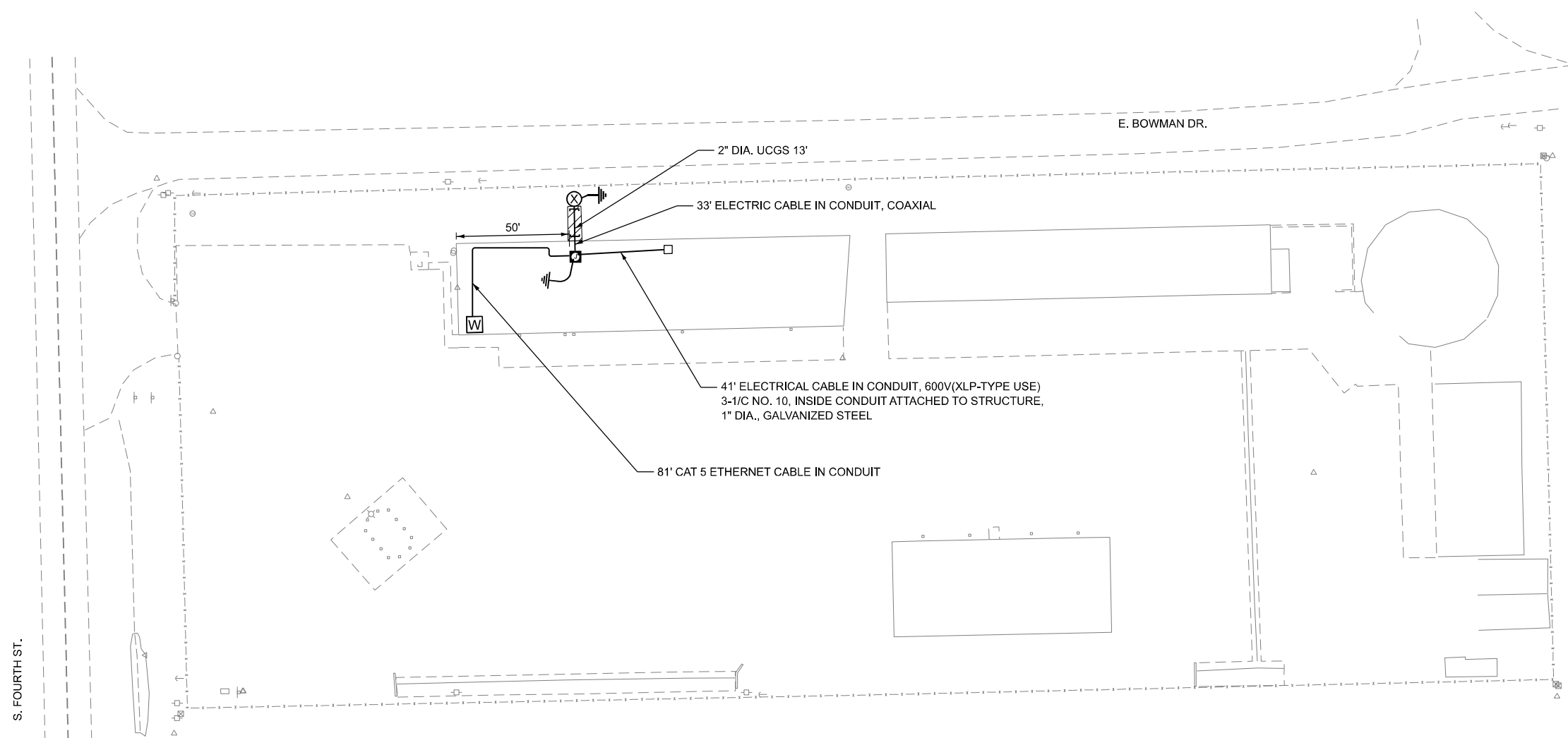
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 6 |
| CONTRACT NO. 76T67 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |



LEGEND

- EXISTING BREAKER BOX
- ▣ JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24"X24"X8"
- Ⓜ EXISTING INTERNET / ROUTER DEVICE (WIFI)
- ⊗ PROPOSED GPS ANTENNA TOWER 14'
- ⚡ GROUND ROD
- ▨ NITROGEN FERTILIZER NUTRIENT
- ▩ PHOSPHOROUS FERTILIZER NUTRIENT
- ▧ POTASSIUM FERTILIZER NUTRIENT
- ▦ MULCH, METHOD 1



NOTES

1. THE JUNCTION BOX ATTACHED TO STRUCTURE CONSISTS OF TRIMBLE RECEIVER, SURGE PROTECTOR, AND ASSOCIATED HARDWARE MOUNTED WITHIN.
2. FOR FOUNDATION AND GPS ANTENNA TOWER 14' DETAILS, SEE SHEETS 14 AND 15.
3. THE POWER CABLE FROM THE EXISTING BREAKER BOX SHALL BE CONNECTED TO AN EXISTING 15 AMP SINGLE POLE BREAKER. IF A NEW IS AMP BREAKER IS REQUIRE, THIS SHALL BE PAID FOR XP000131 15A CIRCUIT BREAKER IP.
4. DISTURBED GRASS AREAS SHALL BE RESTORED, TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A.

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AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

| | | |
|-----------------------------|-------------------|-----------|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - |
| | DRAWN - MD | REVISED - |
| PLOT SCALE = 60,000' / 1" = | CHECKED - BL | REVISED - |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

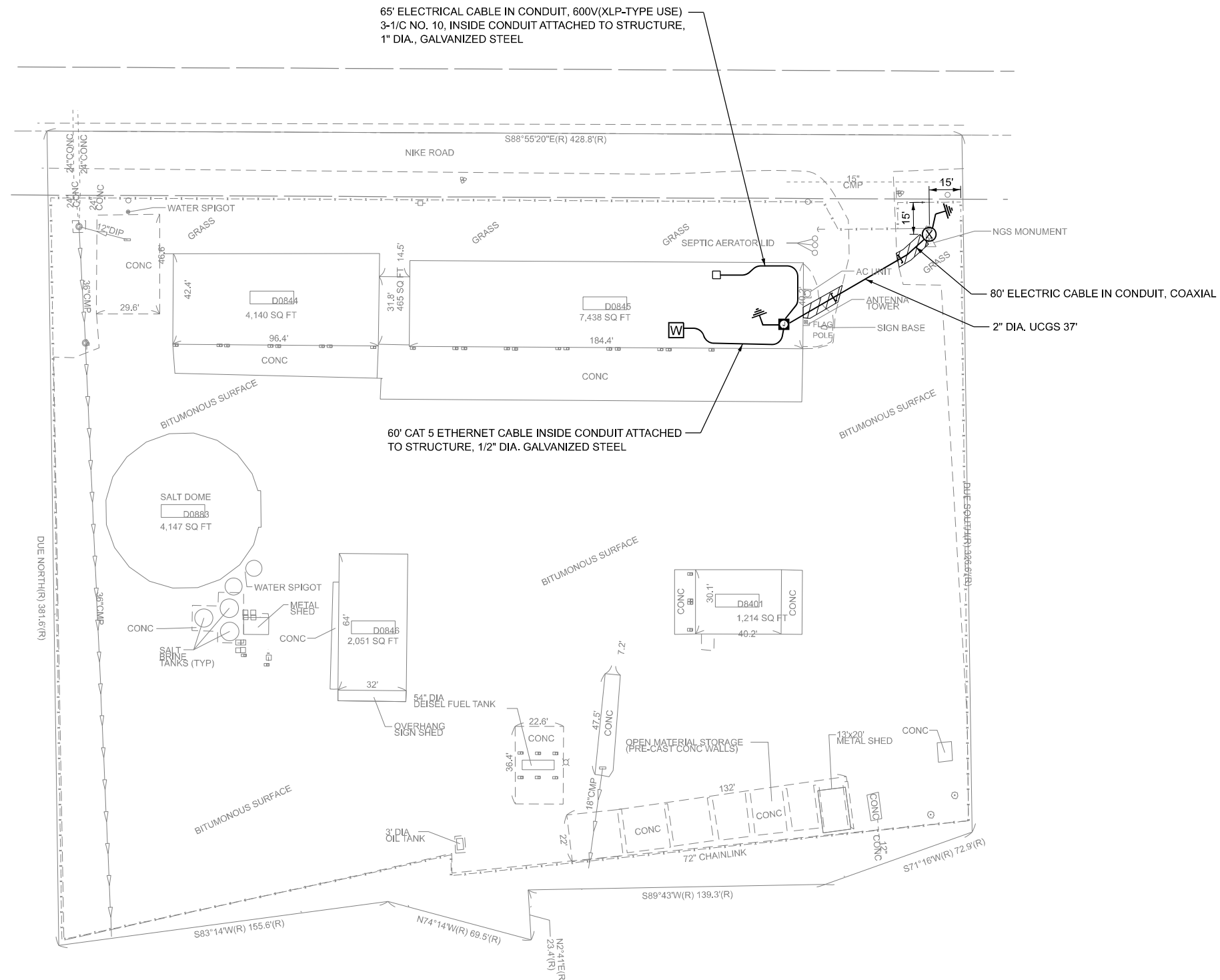
GREENVILLE OPERATIONS YARD-BOND COUNTY
1500 S 4TH ST, GREENVILLE, IL 62246

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 7 |
| CONTRACT NO. 76T67 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

LEGEND

- EXISTING BREAKER BOX
- ⊠ JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24"X24"X8"
- Ⓜ EXISTING INTERNET / ROUTER DEVICE (WIFI)
- ⊗ PROPOSED GPS ANTENNA TOWER 14'
- ⚡ GROUND ROD
- ▨ NITROGEN FERTILIZER NUTRIENT
- ▩ PHOSPHOROUS FERTILIZER NUTRIENT
- ▧ POTASSIUM FERTILIZER NUTRIENT
- ▦ MULCH, METHOD 1



- NOTES**
1. THE JUNCTION BOX ATTACHED TO STRUCTURE CONSISTS OF TRIMBLE RECEIVER, SURGE PROTECTOR, AND ASSOCIATED HARDWARE MOUNTED WITHIN.
 2. FOR FOUNDATION AND GPS ANTENNA TOWER 14' DETAILS, SEE SHEETS 14 AND 15.
 3. THE POWER CABLE FROM THE EXISTING BREAKER BOX SHALL BE CONNECTED TO AN EXISTING 15 AMP SINGLE POLE BREAKER. IF A NEW 15 AMP BREAKER IS REQUIRE, THIS SHALL BE PAID FOR XP000131 15A CIRCUIT BREAKER IP.
 4. DISTURBED GRASS AREAS SHALL BE RESTORED, TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A.

MODEL: Default
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AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

| | | |
|-------------------------------|-------------------|-----------|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - |
| PLOT SCALE = 60,000' / 1" IN. | DRAWN - MD | REVISED - |
| PLOT DATE = 5/22/2024 | CHECKED - BL | REVISED - |
| | DATE - 05-24-2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HECKER OPERATIONS YARD-RANDOLPH COUNTY
8272 NIKE RD, RED BUD, IL 62278

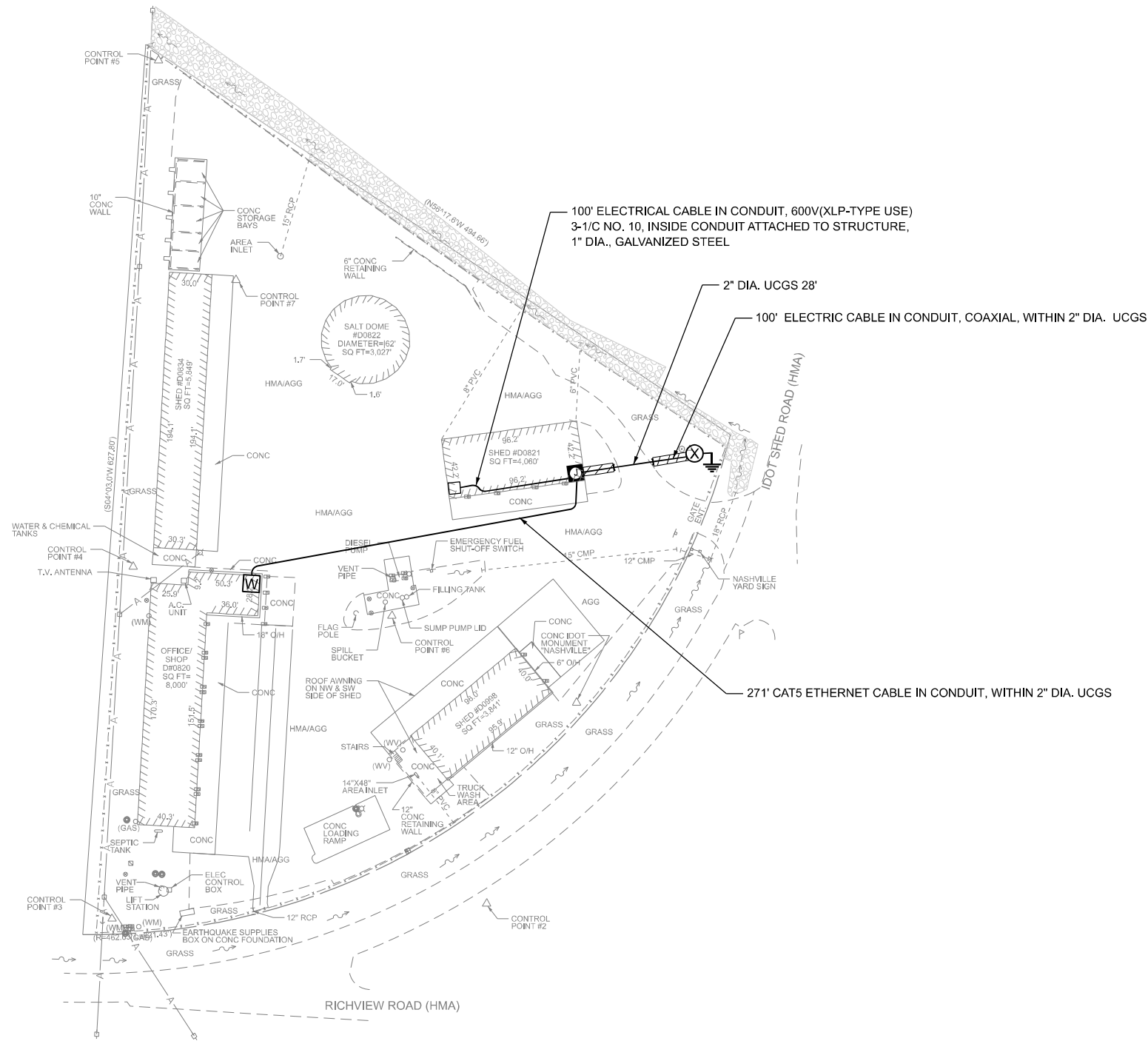
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 8 |
| CONTRACT NO. 76T67 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |



LEGEND

- EXISTING BREAKER BOX
- ⊕ JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 24"X 24"X8"
- Ⓜ EXISTING INTERNET / ROUTER DEVICE (WIFI), IN EQUIPMENT CABINET
- ⊗ PROPOSED GPS ANTENNA TOWER 14'
- ⌵ GROUND ROD
- ▨ NITROGEN FERTILIZER NUTRIENT
- ▩ PHOSPHOROUS FERTILIZER NUTRIENT
- ▧ POTASSIUM FERTILIZER NUTRIENT
- ▦ MULCH, METOD 1



NOTES

1. PROPOSED EQUIPMENT CABINET SHALL CONTAIN CIRCUIT BREAKER, RECEIVER, ROUTER DEVICE (WIFI), SURGE PROTECTOR, AND ASSOCIATED HARDWARE MOUNTED WITHIN.
2. FOR FOUNDATION AND GPS ANTENNA TOWER 14' DETAILS, SEE SHEETS 14 AND 15.
3. CEILINGS ALLOW FOR CABLE TO GO DIRECTLY TO THE JUNCTION BOX.
4. DISTURBED GRASS AREAS SHALL BE RESTORED, TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A.

MODEL: Default
 FILE NAME: F:\Projects\1089 - VV PH I.I (2024-04-15) - AMES\WO #6 GPS\Design\Drawings\76167-border.dgn

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

| | | |
|-----------------------------|-------------------|-----------|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - |
| PLOT SCALE = 100,000' / in. | CHECKED - BL | REVISED - |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NASHVILLE OPERATIONS YARD-WASHINGTON COUNTY
9571 IDOT SHED RD, NASHVILLE, IL 62263

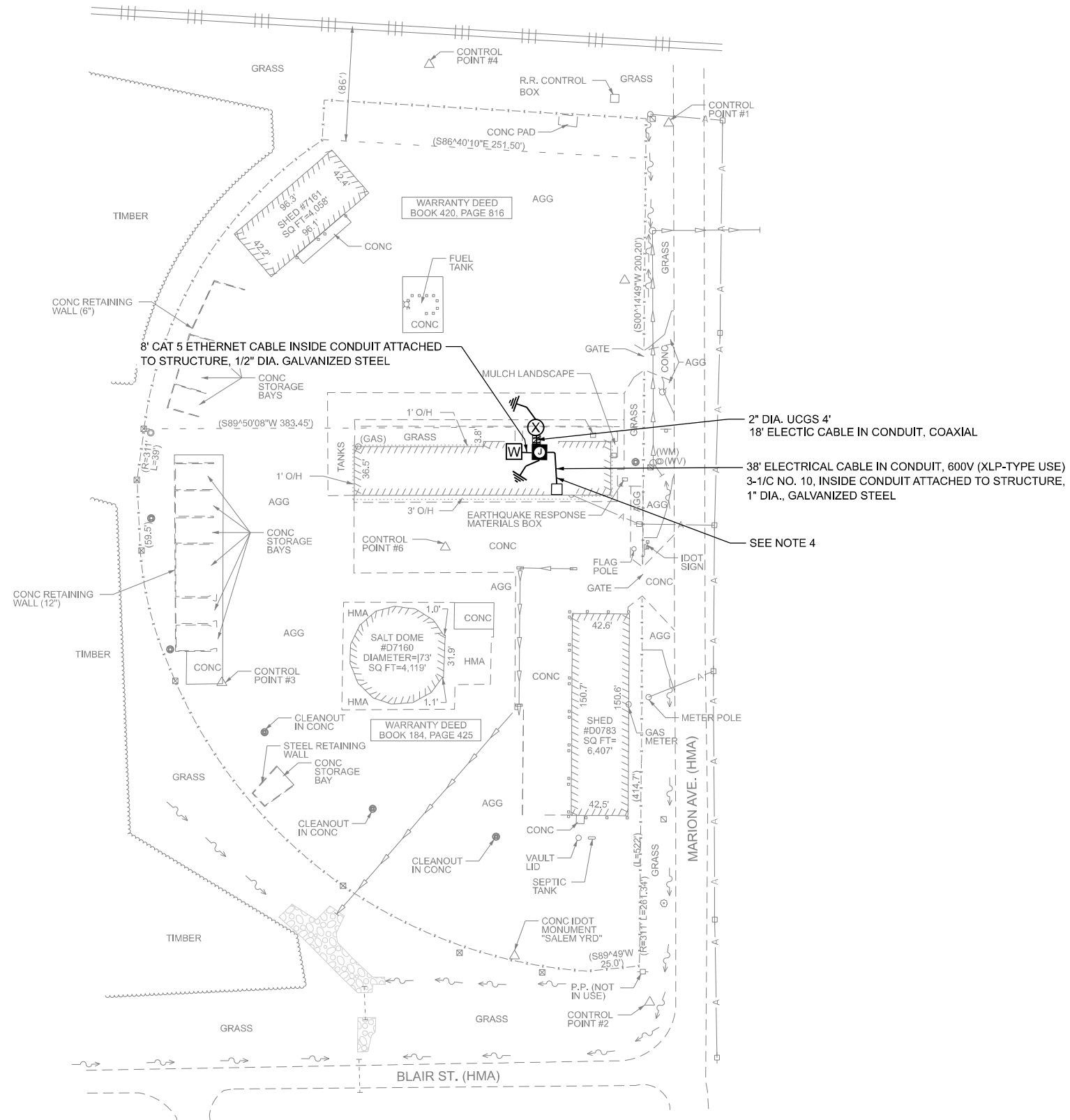
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 9 |
| CONTRACT NO. 76T67 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |



LEGEND

- EXISTING BREAKER BOX
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24"X24"X8"
- W EXISTING INTERNET / ROUTER DEVICE (WIFI)
- X PROPOSED GPS ANTENNA TOWER 14'
- GROUND ROD
- NITROGEN FERTILIZER NUTRIENT
- PHOSPOROUS FERTILIZER NUTRIENT
- POTASSIUM FERTILIZER NUTRIENT
- MULCH, METOD 1



- 2" DIA. UCGS 4' 18' ELECTIC CABLE IN CONDUIT, COAXIAL
- 38' ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 10, INSIDE CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALVANIZED STEEL
- SEE NOTE 4

NOTES

1. THE JUNCTION BOX ATTACHED TO STRUCTURE CONSISTS OF TRIMBLE RECEIVER, SURGE PROTECTOR, AND ASSOCIATED HARDWARE MOUNTED WITHIN.
2. FOR FOUNDATION AND GPS ANTENNA TOWER 14' DETAILS, SEE SHEETS 14 AND 15.
3. THE POWER CABLE FROM THE EXISTING BREAKER BOX SHALL BE CONNECTED TO AN EXISTING 15 AMP SINGLE POLE BREAKER. IF A NEW IS AMP BREAKER IS REQUIRE, THIS SHALL BE PAID FOR XP000131 15A CIRCUIT BREAKER IP.
4. CEILINGS ALLOW FOR CABLE IN CONDUIT TO GO DIRECTLY TO THE JUNCTION BOX.
5. DISTURBED GRASS AREAS SHALL BE RESTORED, TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A.

MODEL: Default
 FILE NAME: F:\Projects\1089 - VV PH III (2016-0415) - AMES\WO #6 GPS\Design\Drawn\76T67-4border.dgn



| | | | |
|-----------------------------|-------------------|-----------|--|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - | |
| | DRAWN - MD | REVISED - | |
| PLOT SCALE = 100,000' / in. | CHECKED - BL | REVISED - | |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SALEM OPERATIONS YARD-MARION COUNTY
707 S MARION, SALEM, IL 62881**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

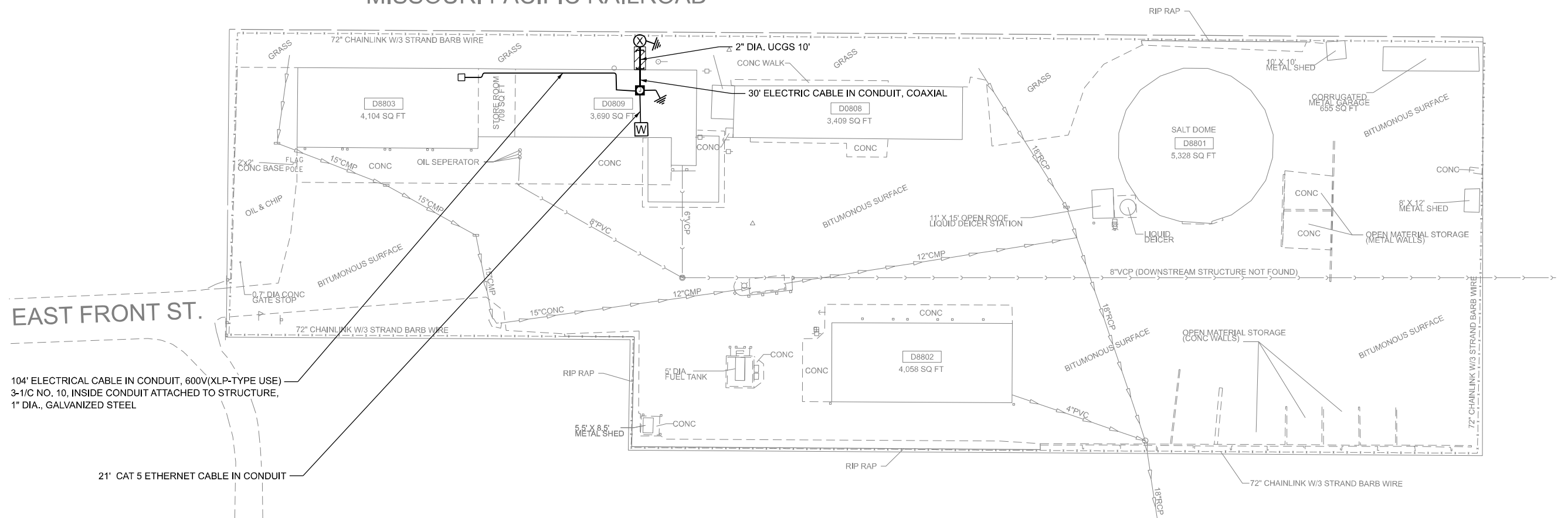
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 10 |
| CONTRACT NO. 76T67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND

- EXISTING BREAKER BOX
- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24"x24"x8"
- Ⓜ EXISTING INTERNET / ROUTER DEVICE (WIFI)
- ⊗ PROPOSED GPS ANTENNA TOWER 14'
- ⊥ GROUND ROD
- ▨ NITROGEN FERTILIZER NUTRIENT
- ▩ PHOSPOROUS FERTILIZER NUTRIENT
- ▧ POTASSIUM FERTILIZER NUTRIENT
- ▦ MULCH, METOD 1



MISSOURI PACIFIC RAILROAD



EAST FRONT ST.

104' ELECTRICAL CABLE IN CONDUIT, 600V(XLP-TYPE USE)
3-1/C NO. 10, INSIDE CONDUIT ATTACHED TO STRUCTURE,
1" DIA., GALVANIZED STEEL

21' CAT 5 ETHERNET CABLE IN CONDUIT

NOTES

1. THE JUNCTION BOX ATTACHED TO STRUCTURE CONSISTS OF TRIMBLE RECEIVER, SURGE PROTECTOR, AND ASSOCIATED HARDWARE MOUNTED WITHIN.
2. FOR FOUNDATION AND GPS ANTENNA TOWER 14' DETAILS, SEE SHEETS 14 AND 15.
3. THE POWER CABLE FROM THE EXISTING BREAKER BOX SHALL BE CONNECTED TO AN EXISTING 15 AMP SINGLE POLE BREAKER. IF A NEW 15 AMP BREAKER IS REQUIRED, THIS SHALL BE PAID FOR XP000131 15A CIRCUIT BREAKER IP.
4. DISTURBED GRASS AREAS SHALL BE RESTORED, TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A.

MODEL: Default
FILE NAME: F:\Projects\1089 - VV PH II (208-045) - AMES\WO #6 GPS\Design\Drawings\76T67-border.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

| | | |
|---------------------------|-------------------|-----------|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - |
| PLOT SCALE = 60,000' = 1" | DRAWN - MD | REVISED - |
| PLOT DATE = 5/22/2024 | CHECKED - BL | REVISED - |
| | DATE - 05-24-2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEELEVILLE OPERATIONS YARD-RANDOLPH COUNTY
700 NORTH CHERRY, STEEEVILLE, IL 62288

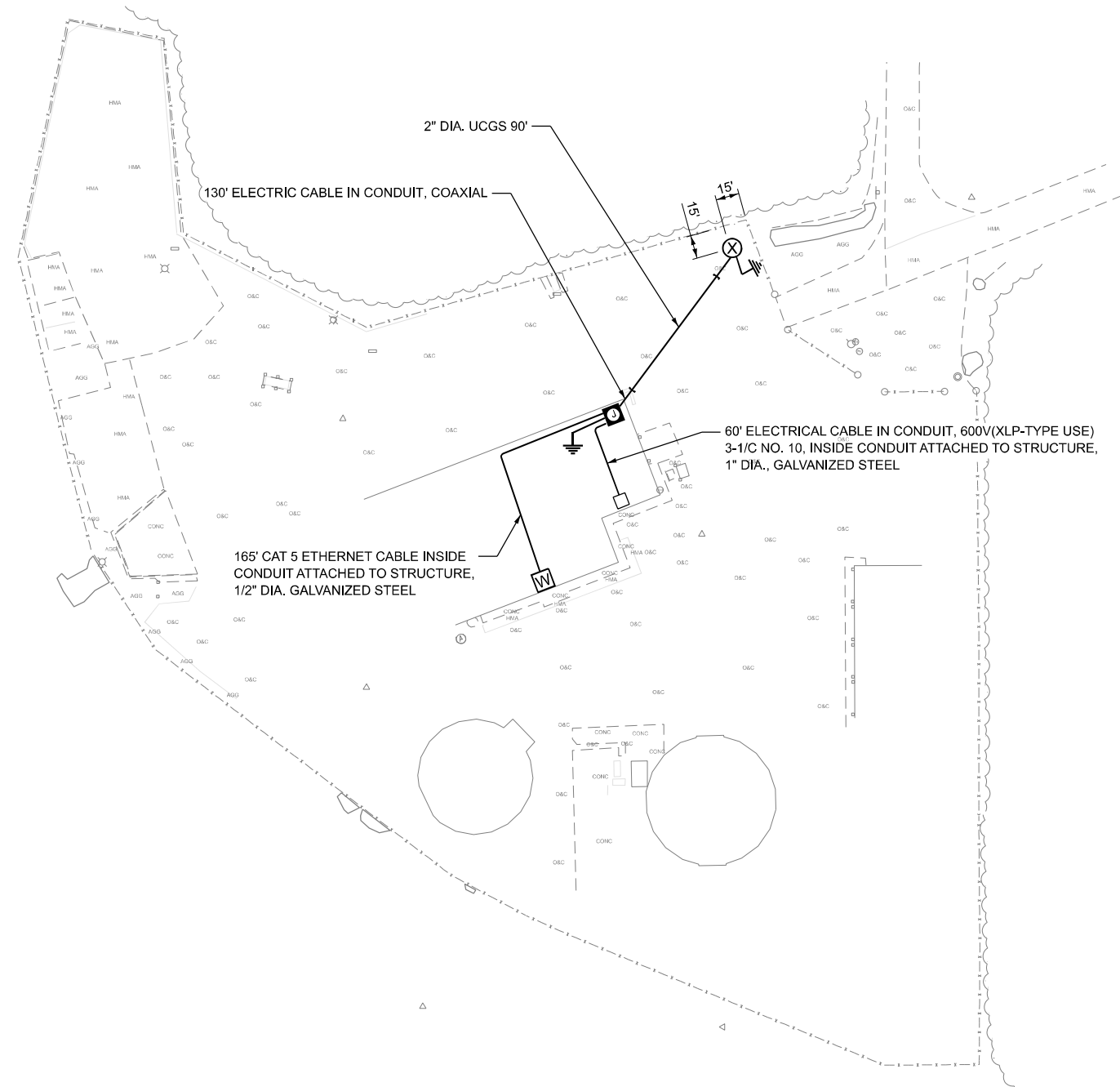
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| | | | | |
|--------------------|---------------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 11 |
| CONTRACT NO. 76T67 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |



LEGEND

- EXISTING BREAKER BOX
- ⊙ JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24"X24"X8"
- Ⓜ EXISTING INTERNET / ROUTER DEVICE (WIFI)
- ⊗ PROPOSED GPS ANTENNA TOWER 14'
- ⊥ GROUND ROD



- NOTES**
1. THE JUNCTION BOX ATTACHED TO STRUCTURE CONSISTS OF TRIMBLE RECEIVER, SURGE PROTECTOR, AND ASSOCIATED HARDWARE MOUNTED WITHIN.
 2. FOR FOUNDATION AND GPS ANTENNA TOWER 14' DETAILS, SEE SHEETS 14 AND 15.
 3. THE POWER CABLE FROM THE EXISTING BREAKER BOX SHALL BE CONNECTED TO AN EXISTING 15 AMP SINGLE POLE BREAKER. IF A NEW 15 AMP BREAKER IS REQUIRE, THIS SHALL BE PAID FOR XP000131 15A CIRCUIT BREAKER IP.

MODEL: Default
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AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

| | | | |
|-----------------------------|-------------------|-----------|--|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - | |
| | DRAWN - MD | REVISED - | |
| PLOT SCALE = 100,000' / in. | CHECKED - BL | REVISED - | |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

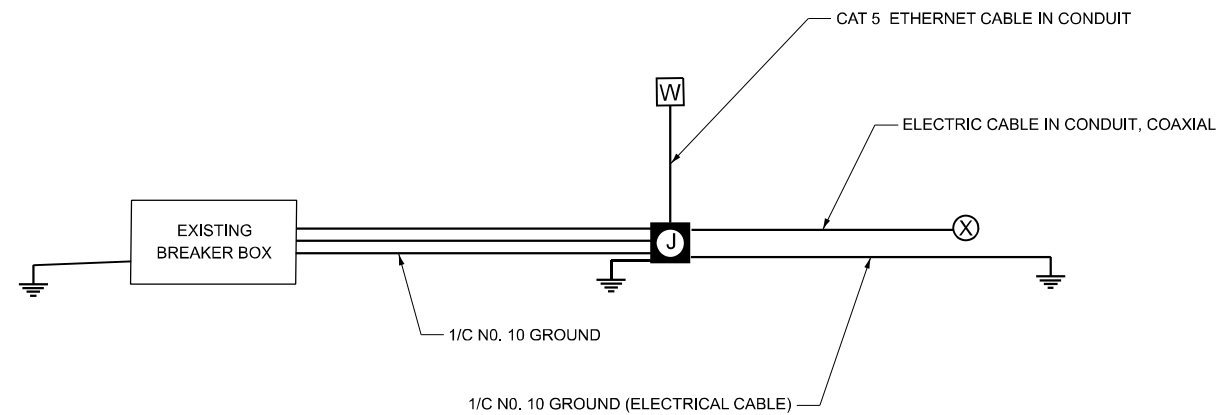
TROY OPERATIONS YARD-MADISON COUNTY
7586 US HWY 40, TROY, IL 62294

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

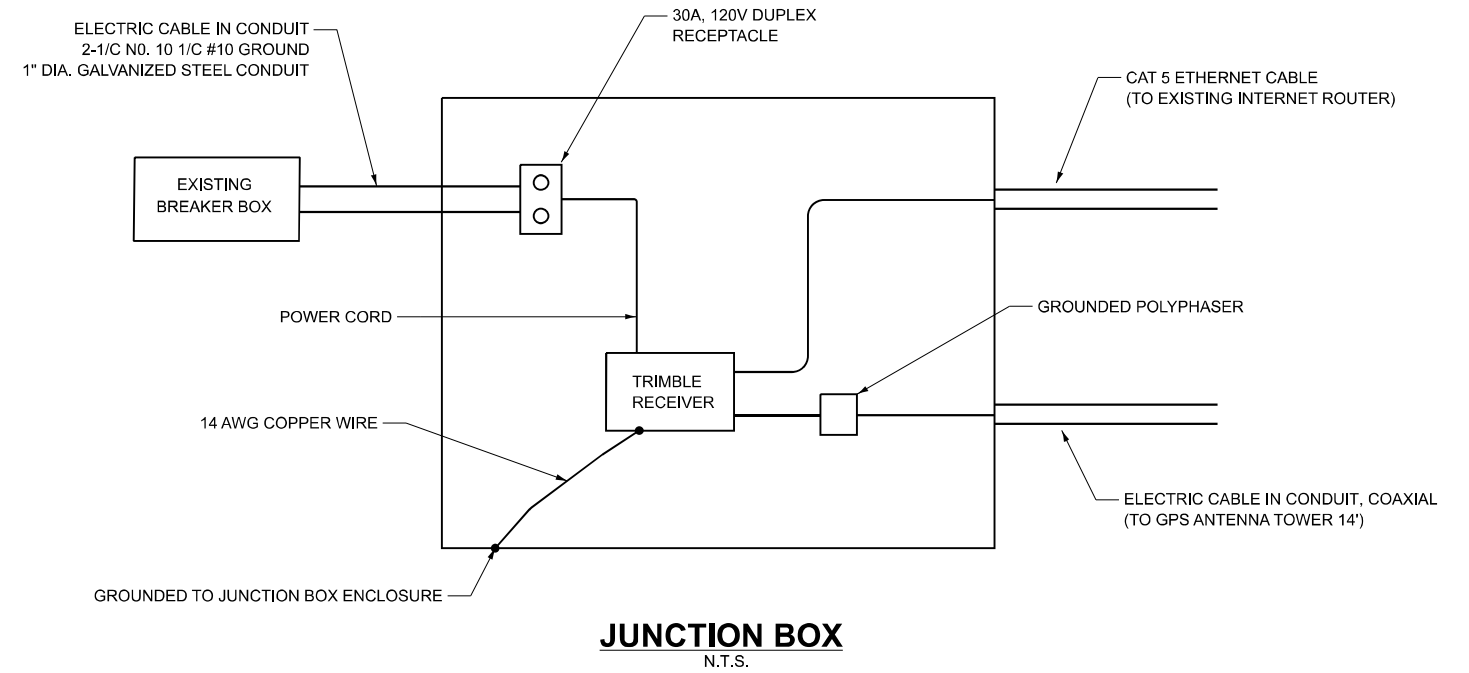
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| CONTRACT NO. 76T67 | | | | |
| ILLINOIS | | | FED. AID PROJECT | |

LEGEND

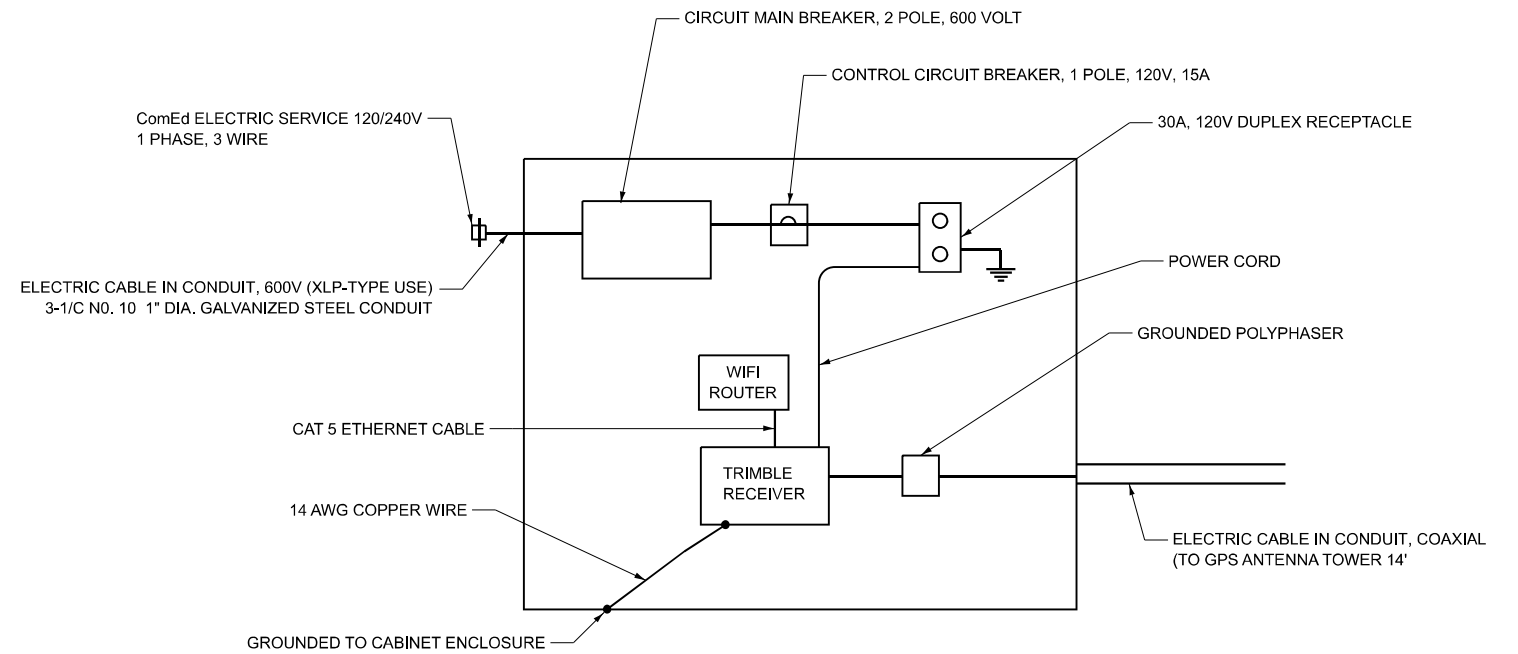
- EXISTING BREAKER BOX
- ⊙ PROPOSED JUNCTION BOX
- Ⓜ EXISTING INTERNET / ROUTER DEVICE (WIFI)
- ⊗ PROPOSED GPS ANTENNA TOWER
- ⏚ GROUND ROD
- ⊕ ELECTRIC SERVICE POLE



WIRING GROUNDING DIAGRAM



JUNCTION BOX
N.T.S.



EQUIPMENT CABINET (GODFREY)
N.T.S.

MODEL: Default
FILE NAME: F:\Projects\1089 - VV PH I.I (2024-045) - AMES\WO #6 GPS\Design\Diagram\76T67-border.dgn

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Downers Grove, IL 60516

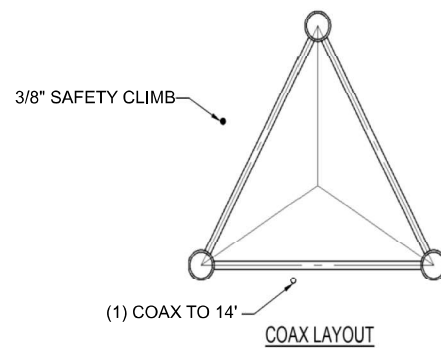
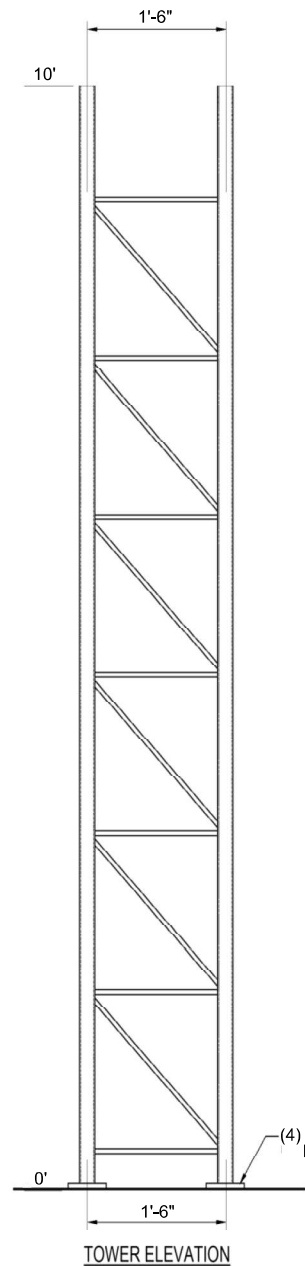
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| USER NAME = mdeitch | DESIGNED - MH/SH | REVISED - |
| DRAWN - MD | REVISIONS - | |
| PLOT SCALE = 60,000' / 1" | CHECKED - BL | REVISED - |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM AND
JUNCTION BOX AND EQUIPMENT AND CABINET

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

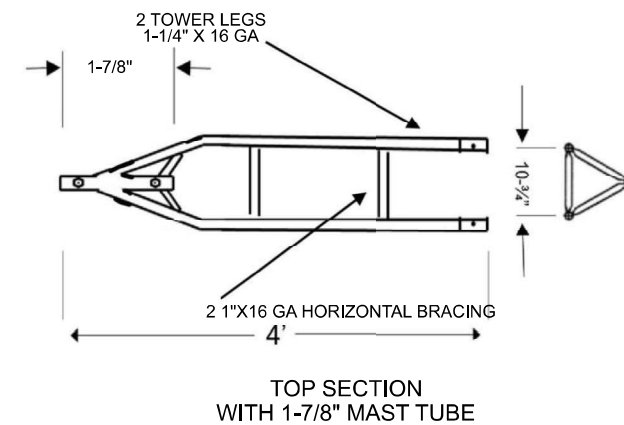
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 13 |
| CONTRACT NO. 76T67 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |



| FACTORED BASE REACTIONS | |
|-------------------------|------|
| SHEAR (KIPS) | 1.8 |
| AXIAL (KIPS) | 2.5 |
| MOMENT (KIP-FT) | 17.6 |

| FACTORED LEG REACTIONS | |
|--------------------------|------|
| MAX COMPRESSION (KIPS) | 14.4 |
| COMPRESSION SHEAR (KIPS) | 0.6 |
| MAX TENSION (KIPS) | 12.9 |
| TENSION SHEAR (KIPS) | 0.7 |

ALL STEEL SHALL CONFORM TO THE FOLLOWING:
 A. PIPE LEGS: ASTM A500 GR C (50 KSI YIELD POINT MATERIAL)
 B. ALL OTHER STEEL SHAPES AND PLATES: ASTM A572 GR 50 (50 KSI YIELD POINT MATERIAL)
 C. STRUCTURAL BOLTS: ASTM A325 TYPE 1 WITH ASTM A563 GRADE DH NUTS
 D. ANCHOR RODS: ASTM A193 GR B7 WITH ASTM A194 GRADE 2H NUTS



(4) 1/2" DIA. ANCHOR RODS PER LEG

MODEL: Default
 FILE NAME: F:\Projects\1089 - VV PH I.I (2024-04-15) - AMES\WO #6 GPS\Design\Drawings\76T67-border.dgn

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60516

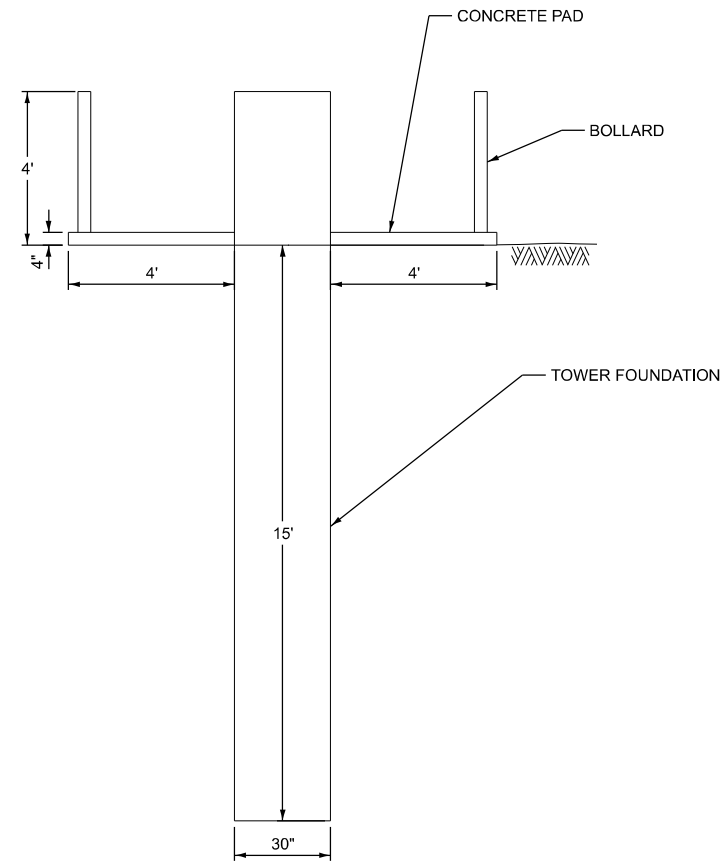
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| | DRAWN - MD | REVISED - |
| PLOT SCALE = 0.100 1/in. | CHECKED - BL | REVISED - |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

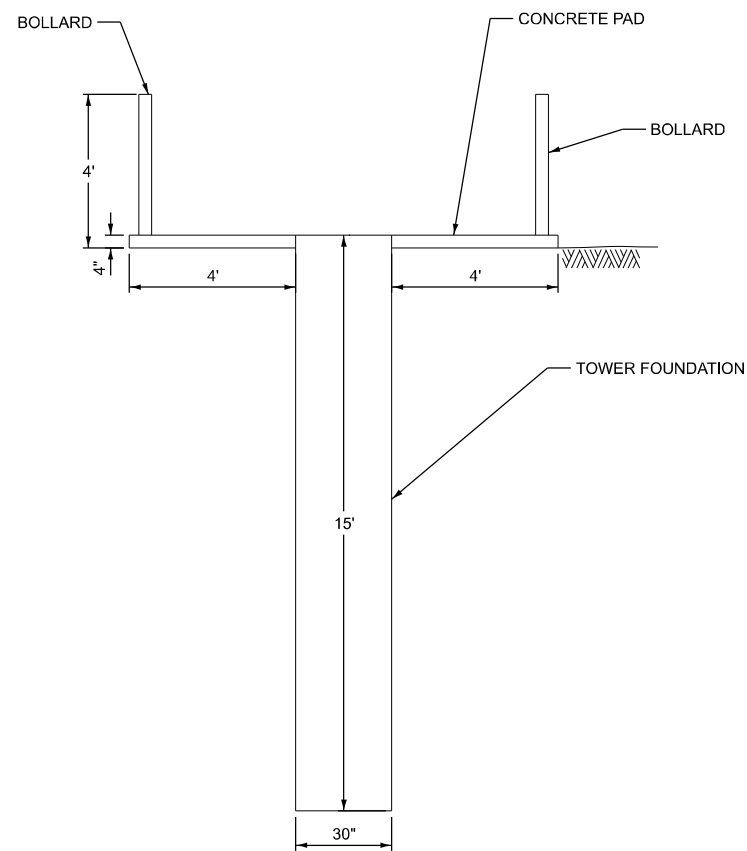
GPS ANTENNA TOWER 14'

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------------|---------|------------------|-----------|
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 14 |
| CONTRACT NO. 76T67 | | | | |
| ILLINOIS | | | FED. AID PROJECT | |

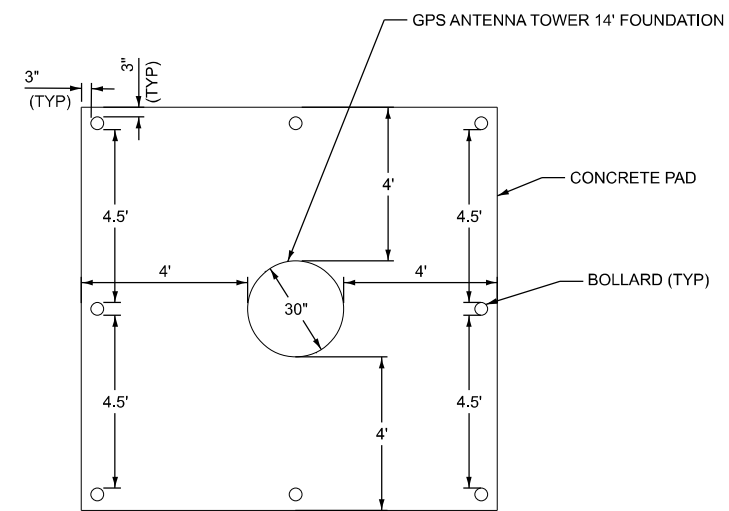


CONCRETE FOUNDATION, TYPE E 30" DIAMETER
(AT GREENVILLE, SALEM AND STEELEVILLE OPERATIONS YARDS)



CONCRETE FOUNDATION, TYPE E 30" DIAMETER
(AT CARROLLTON, GODFREY, HECKER, NASHVILLE AND TROY OPERATIONS YARDS)

ELEVATION



PLAN - CONCRETE PAD

NOTES:

1. THE FOUNDATION SHALL BE SIMILAR TO IDOT CONCRETE FOUNDATION DETAILS 878001-11, TYPE E.
2. THE FOUNDATION DESIGN SHALL BE COORDINATED WITH THE REQUIREMENTS FOR THE PROPOSED TOWER.
3. ALL GPS ANTENNA TOWER 14' FOUNDATIONS SHALL BE PAID CONCRETE FOUNDATION, TYPE E 30" DIAMETER.

MODEL: Default
FILE NAME: F:\Projects\1089 - VV PH I.I (2024-04-15) - AMES\WO #6 GPS\Design\Drawings\76T67-4border.dgn

AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

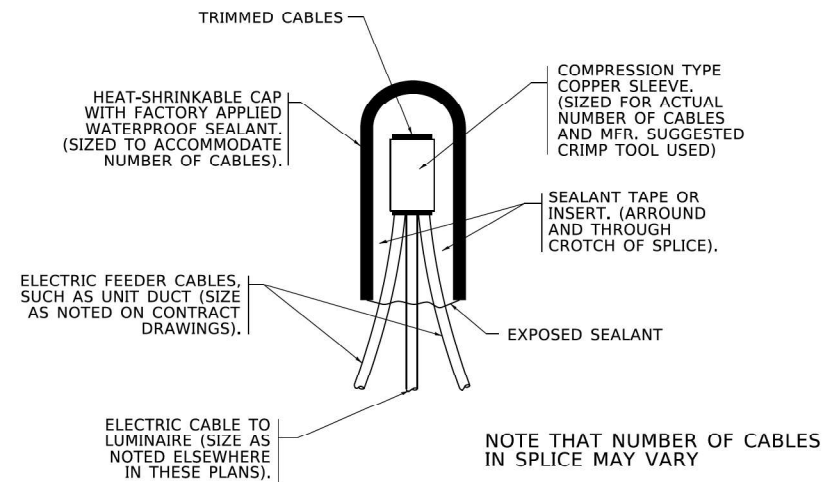
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| USER NAME = mdeitch | DESIGNED - MH/SH | REVISED - |
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| PLOT SCALE = 60,000' / 1" = | CHECKED - BL | REVISED - |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

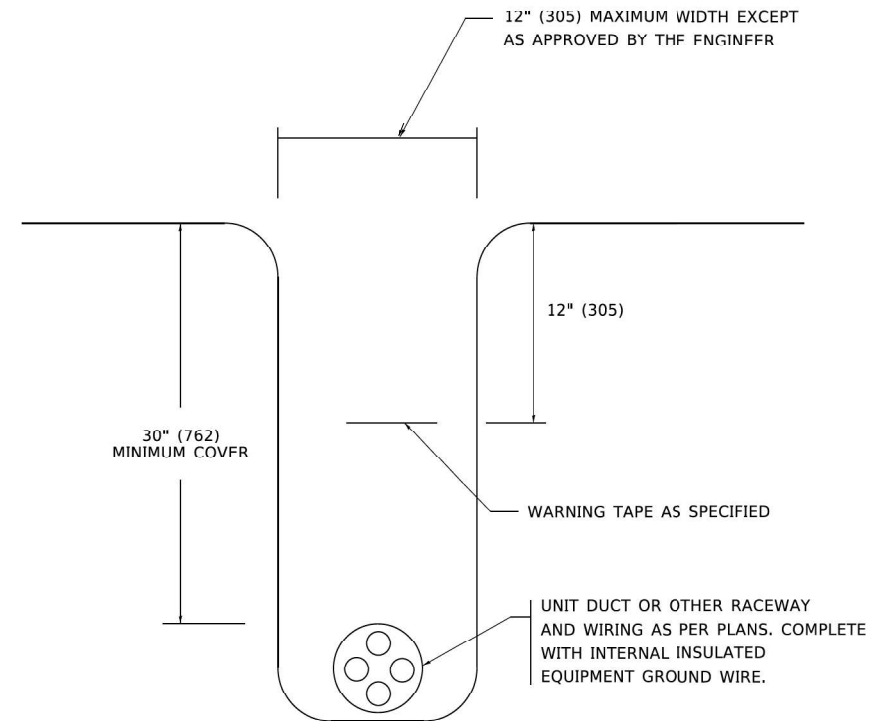
CONCRETE FOUNDATION, TYPE E 30" DIAMETER

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

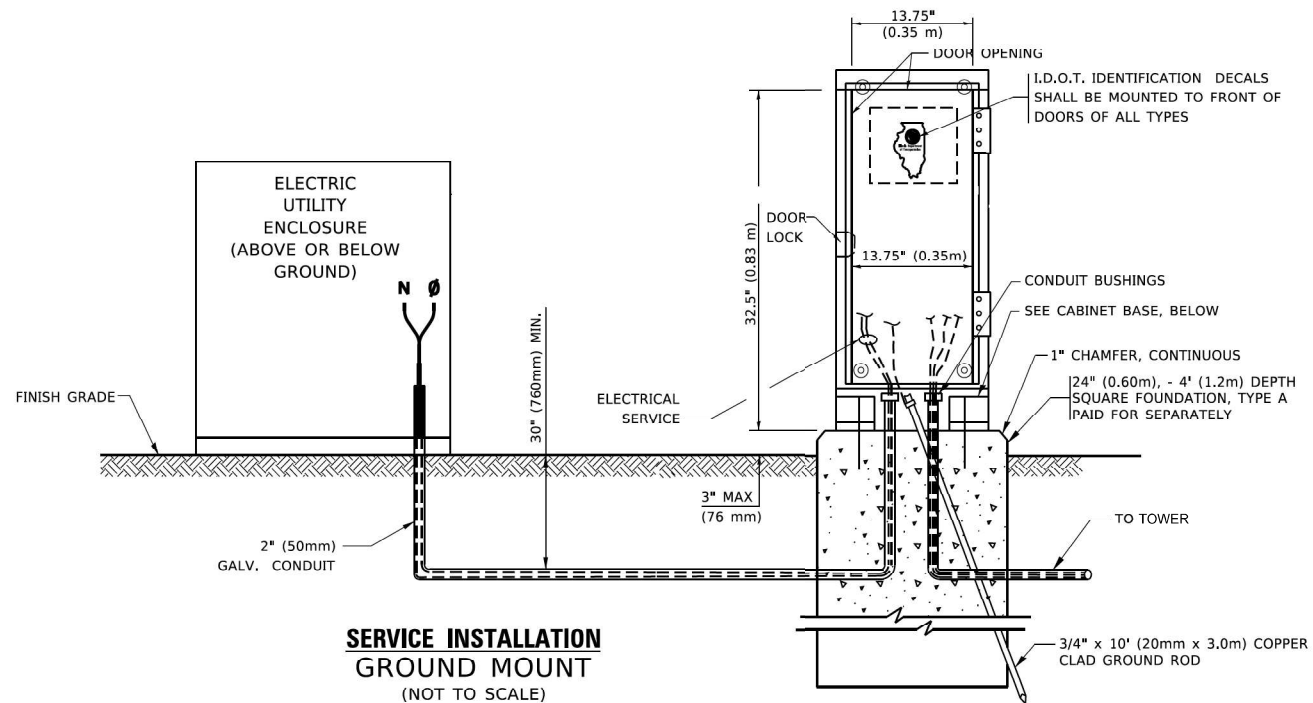
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 15 |
| CONTRACT NO. 76T67 | | | | |
| ILLINOIS | | | FED. AID PROJECT | |



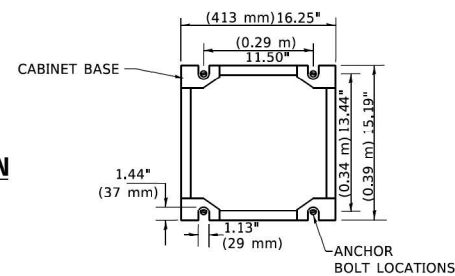
TYPICAL SPLICE DETAIL
N.T.S.



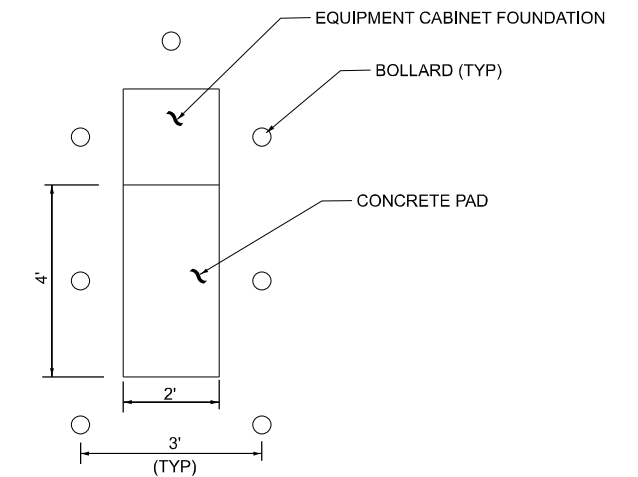
TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



**SERVICE INSTALLATION
GROUND MOUNT**
(NOT TO SCALE)



EQUIPMENT CABINET DETAIL
N.T.S.



PLAN - CONCRETE PAD

NOTES:

1. THE EQUIPMENT CABINET SHALL BE INSTALLED AT THE MAINTENANCE YARDS AS INDICATED ON THE PLANS.
2. THE BREAKER FOR POWER AND THE INTERNET ROUTER SHALL BE HOUSED WITHIN. THE TRIMBLE RECEIVER, PROVIDED BY IDOT SHALL ALSO BE HOUSED IN THIS CABINET.
3. THE JUNCTION BOXES, AS SHOWN ON THE PLANS, SHALL HOUSE THE RECEPTACLE FOR POWER AND THE TRIMBLE RECEIVER. THE RECEPTACLE IS INCLUDED IN THE COST OF THE JUNCTION BOX.
4. THE FOUNDATIONS FOR THE EQUIPMENT CABINET SHALL BE PAID CONCRETE FOUNDATION, TYPE A.
5. PREFORMED JOINT FILLER OF 1/2\"/>

MODEL: Default
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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60516

| | | |
|--------------------------|-------------------|-----------|
| USER NAME = mdeitche | DESIGNED - MH/SH | REVISED - |
| | DRAWN - MD | REVISED - |
| PLOT SCALE = 0.200 1/16" | CHECKED - BL | REVISED - |
| PLOT DATE = 5/22/2024 | DATE - 05-24-2024 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISC. ELECTRICAL DETAILS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|--------------------|---------------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| VARIOUS | DIST. 8 GPS BS 2024 | VARIOUS | 16 | 16 |
| CONTRACT NO. 76T67 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |