



ELECTRIC WORK REQUEST

4376123

C  T  V: MERTON  
 CUST/PROJ NAME: STONE RIDGE  
 PROJECT LOCATION: CTH KE WINKLEMAN RD & AINSWORTH RD  
 PREPARED BY: JENNIFER BIEL (U)  
 E-MAIL: JENNIFER.BIEL@WE-ENERGIES.COM  
 OFFICE #: \_\_\_\_\_ CELL #: 618-407-8185  
 PROJECT ID: DE4376123 IO #: 13326  
 OPERATING MAPS: 3924-7736-04  
 EXISTING FEEDER: X35952 MERTON & Z46182 BARK RIVER  
 PROPOSED FEEDER: \_\_\_\_\_  
 T-R-S - 1/4Q: 08N18E25NE CGS#: \_\_\_\_\_

DEVELOPER:  
 COMPANY NAME TRI-QUIST, INC  
 ADDRESS 8546 E COUNTRY CLUB TR  
 CITY, STATE SCOTTSDALE AZ 85255  
 CONTACT NAME ALBIN HALQUIST  
 PHONE 602-369-8266  
 EMAIL ACHIII@ME.COM  
 ENGINEERING:  
 COMPANY NAME SEH  
 CONTACT NAME KEITH KINDRED  
 PHONE 414-949-8919  
 EMAIL KKINDRED@SEHINC.COM

TOTAL TRENCH LENGTH: 2887' DIMENSIONING NOTES:  
 TOTAL BORE LENGTH: 133' ALL CABLES TO BE  
 TOTAL NUMBER OF TRANSFORMERS: 8 INSTALLED 3' OFF PL  
 TOTAL NUMBER OF PEDESTALS: 2 UNLESS OTHERWISE NOTED

TYPE OF WORK:  
 SUBDIVISION-UNDERGROUND FACILITIES  
 SUBDIVISION-OVERHEAD FACILITIES  
 SUBDIVISION STREET LIGHT - UNDERGROUND FACILITIES  
 SUBDIVISION STREET LIGHT - OVERHEAD FACILITIES  
 SUBDIVISION - RELOCATE FACILITIES  
 OTHER: \_\_\_\_\_

STAKING REQUIREMENTS:  
 SURVEYOR  STAKED  
 DESIGNER  NOT NEEDED

RESTORE PRIVATE PROPERTY:  
 YES  NO

JU COMPANY: \_\_\_\_\_ JOB # \_\_\_\_\_  
 ENGINEERING CONTACT: \_\_\_\_\_ CONSTRUCTION CONTACT: \_\_\_\_\_  
 PHONE # \_\_\_\_\_ PHONE # \_\_\_\_\_  
 CONSTRUCTION EMAIL: \_\_\_\_\_  
 EXCEPTIONS/ JU SIGNATURES: \_\_\_\_\_

JU COMPANY: \_\_\_\_\_ JOB # \_\_\_\_\_  
 ENGINEERING CONTACT: \_\_\_\_\_ CONSTRUCTION CONTACT: \_\_\_\_\_  
 PHONE # \_\_\_\_\_ PHONE # \_\_\_\_\_  
 CONSTRUCTION EMAIL: \_\_\_\_\_  
 EXCEPTIONS/ JU SIGNATURES: \_\_\_\_\_

CONTACT JU PARTNERS 3-5 DAYS PRIOR TO CONSTRUCTION.

JOINT USE KEY:  
 \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ = \_\_\_\_\_  
 \_\_\_\_\_ = \_\_\_\_\_

RELATED WORK REQUESTS:  
 OH: 4420507  
 DB: 4376123  
 SLDB: \_\_\_\_\_  
 SLOH: \_\_\_\_\_

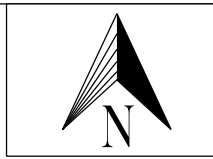
ROW TO OBTAIN EASEMENT / ADD EASEMENT. SURVEYOR TO STAKE C/L AND MARK WIDTH OF EASEMENT ON STAKE.  
 ROW TO CONTACT CST/DESIGNER FOR EASEMENT REQ'S.  
 NO NEW EASEMENTS REQUIRED

EROSION CONTROL NOTES

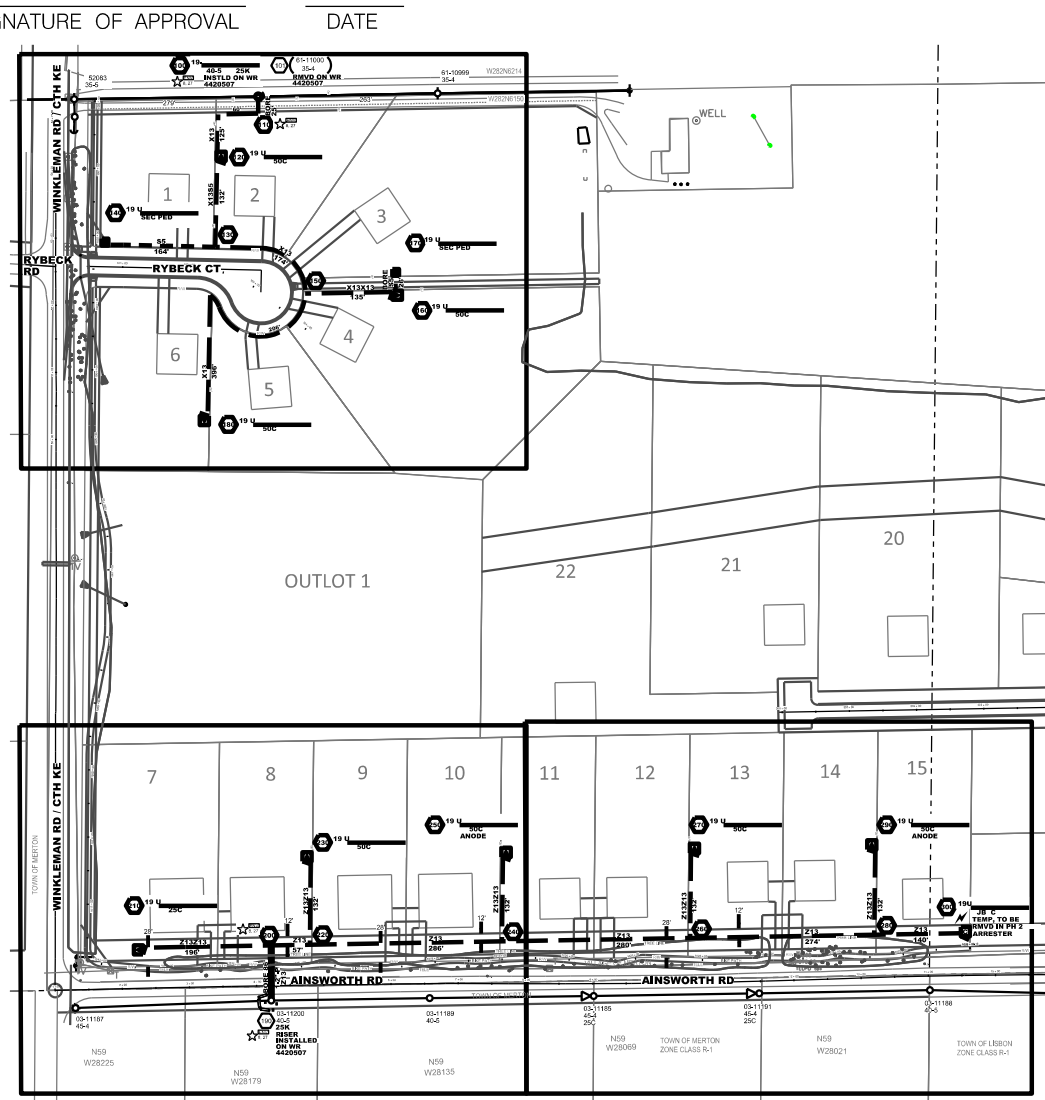
- IF DISTURBANCE OCCURS IN SUMMER, FINAL STABILIZATION SHALL BE PERMANENT SEED AND PROPERLY ANCHORED MULCH, UNLESS NOTED. IF DISTURBANCE OCCURS IN WINTER, TEMPORARY STABILIZATION SHALL BE SOIL STABILIZER, TYPE A, UNLESS NOTED. FINAL STABILIZATION IS REQUIRED IN SPRING.
- IF DISTURBANCE OCCURS WITHIN THE SLOPE INTERCEPT, FINAL STABILIZATION SHALL BE SOIL STABILIZER, TYPE A, UNLESS NOTED. IF DISTURBANCE OCCURS OUTSIDE THE SLOPE INTERCEPT, FINAL STABILIZATION SHALL BE PERMANENT SEED AND PROPERLY ANCHORED MULCH, UNLESS NOTED.
- IF DISTURBANCE OCCURS IN AGRICULTURAL FIELDS, SOIL SEGREGATION WILL NEED TO TAKE PLACE TO RETURN FIELDS TO PRE-CONSTRUCTION SOIL STRATIFICATION AND TO PRE-CONSTRUCTION ELEVATIONS.
- DEPENDING ON THE TIME OF YEAR AND WEATHER CONDITIONS, CONSIDER USING PLATES/MATS IN WETLANDS OR CROSSING DITCHES.
- STOCKPILE MATERIALS SHALL BE PLACED UPSLOPE FROM EXCAVATION. IF STOCKPILE MATERIALS MUST BE PLACED DOWNSLOPE OF EXCAVATION, PROTECT STOCKPILES WITH 12" WATTLES.
- PROJECT SPECIFIC EROSION CONTROL NOTES:

WR 4376123

NOTES:  
 \* WE ENERGIES WILL NOT RESTORE OR HAUL SPOIL UNLESS OTHERWISE NOTED ON SKETCH  
 \* CUSTOMER/DEVELOPER IS RESPONSIBLE FOR LOCATING ANY/ALL PRIVATE UNDERGROUND FACILITIES AND/OR OBSTRUCTIONS INCLUDING THOSE THAT HAVE NOT YET BEEN TURNED OVER TO THE MUNICIPALITY  
 \* WE ENERGIES AND/OR ITS CONTRACTORS ARE NOT RESPONSIBLE FOR DAMAGE TO UNMARKED FACILITIES  
 \* CUSTOMER/DEVELOPER AND THEIR CONTRACTORS/SUB-CONTRACTORS MUST KEEP WE ENERGIES EASEMENT AREAS FREE AND CLEAR OF OBSTRUCTIONS AND ENSURE ACCESS TO EASEMENT AREAS IS PROVIDED INCLUDING, BUT NOT LIMITED TO: DUMPSTERS, SPOIL, BACKFILL MATERIAL, ETC.  
 \* CUSTOMER/DEVELOPER AND THEIR CONTRACTORS/SUB-CONTRACTORS MUST ENSURE THAT GRADE AT TIME OF WE ENERGIES INSTALLATION IS WITHIN 4" OF FINAL GRADE INCLUDING ANY PLANS FOR FUTURE LANDSCAPING  
 \* ANY FIELD ADJUSTMENTS TO SIGNED/APPROVED SKETCH MAY RESULT IN ADDITIONAL COSTS INCURRED BY THE DEVELOPER  
 \* WE ENERGIES IS NOT RESPONSIBLE FOR DAMAGE TO TREES AND/OR ROOTS LOCATED ALONG TRENCH ROUTE  
 \* WE ENERGIES AND/OR ITS CONTRACTORS WILL CLEAN ANY MUD/DEBRIS THAT IS TRACKED ONTO EXISTING ROADS AS A RESULT OF THEIR CONSTRUCTION DAILY  
 \* ANY ADDITIONAL SPECIAL NOTES OR PROVISIONS



SHEET 3



SHEET 4

SHEET 5

REV.	DESCRIPTION	BY	DATE
0	DESIGN APPROVED FOR CONSTRUCTION	JB	10/15/19

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SHEET 1 OF 6

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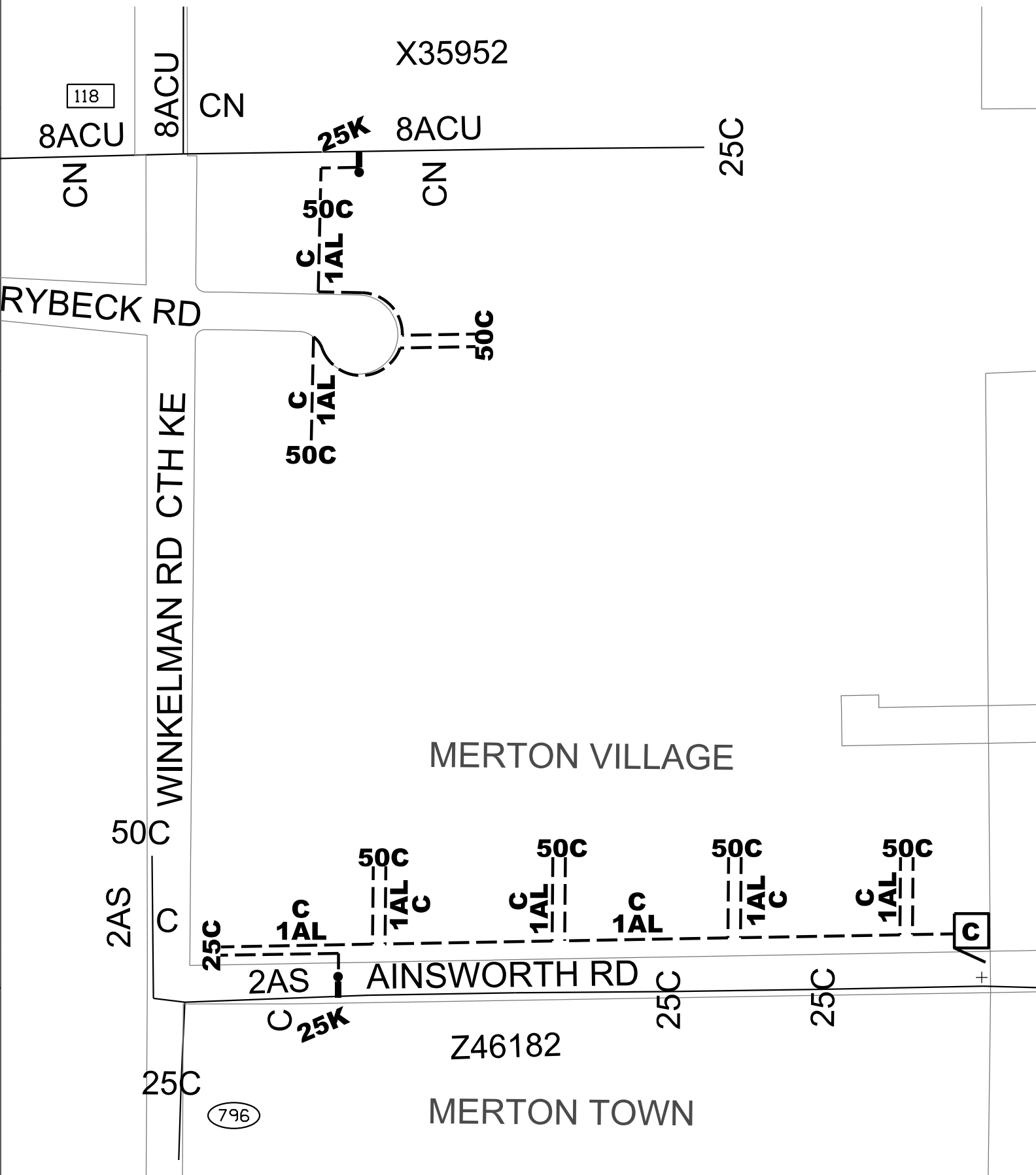
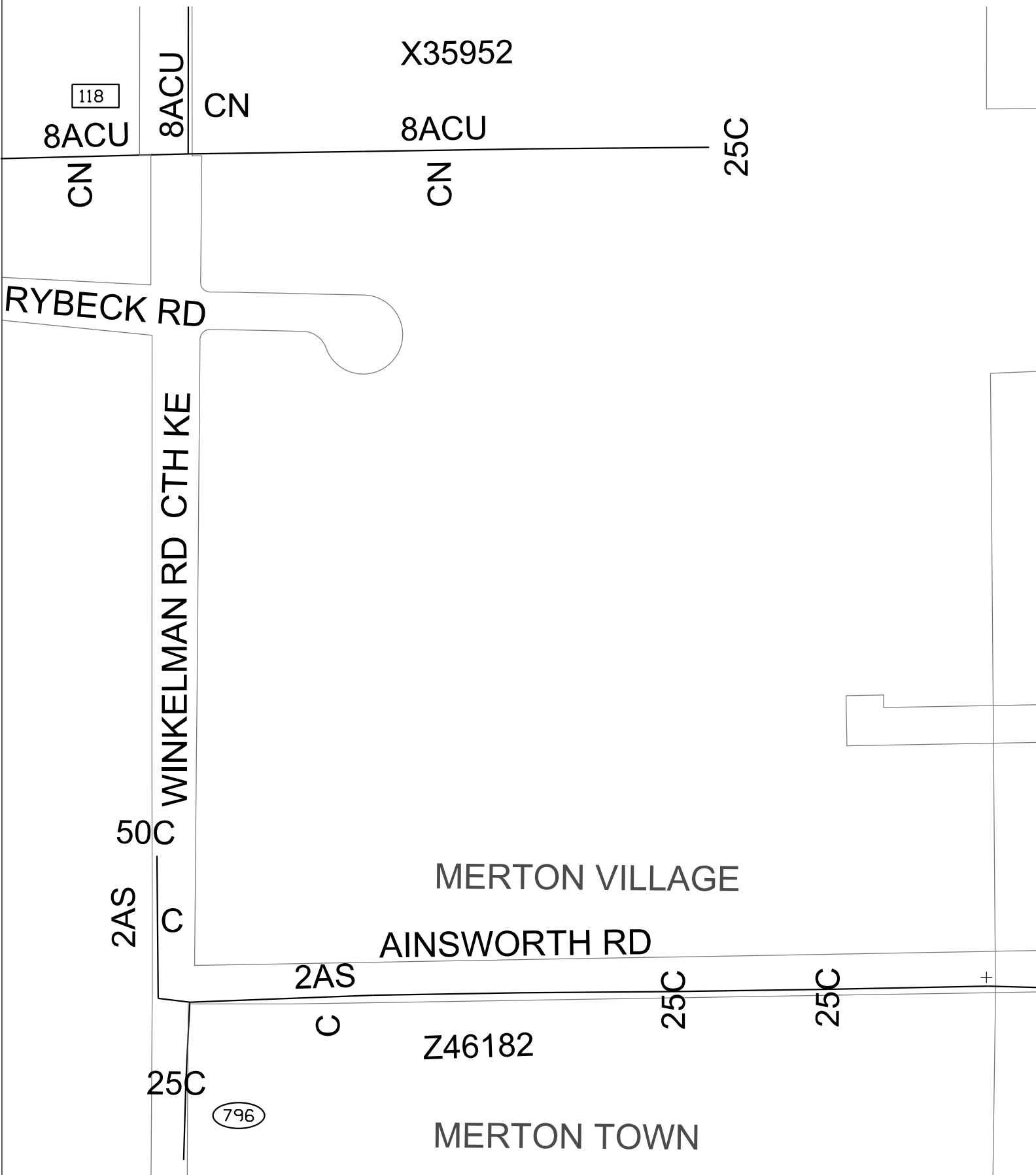


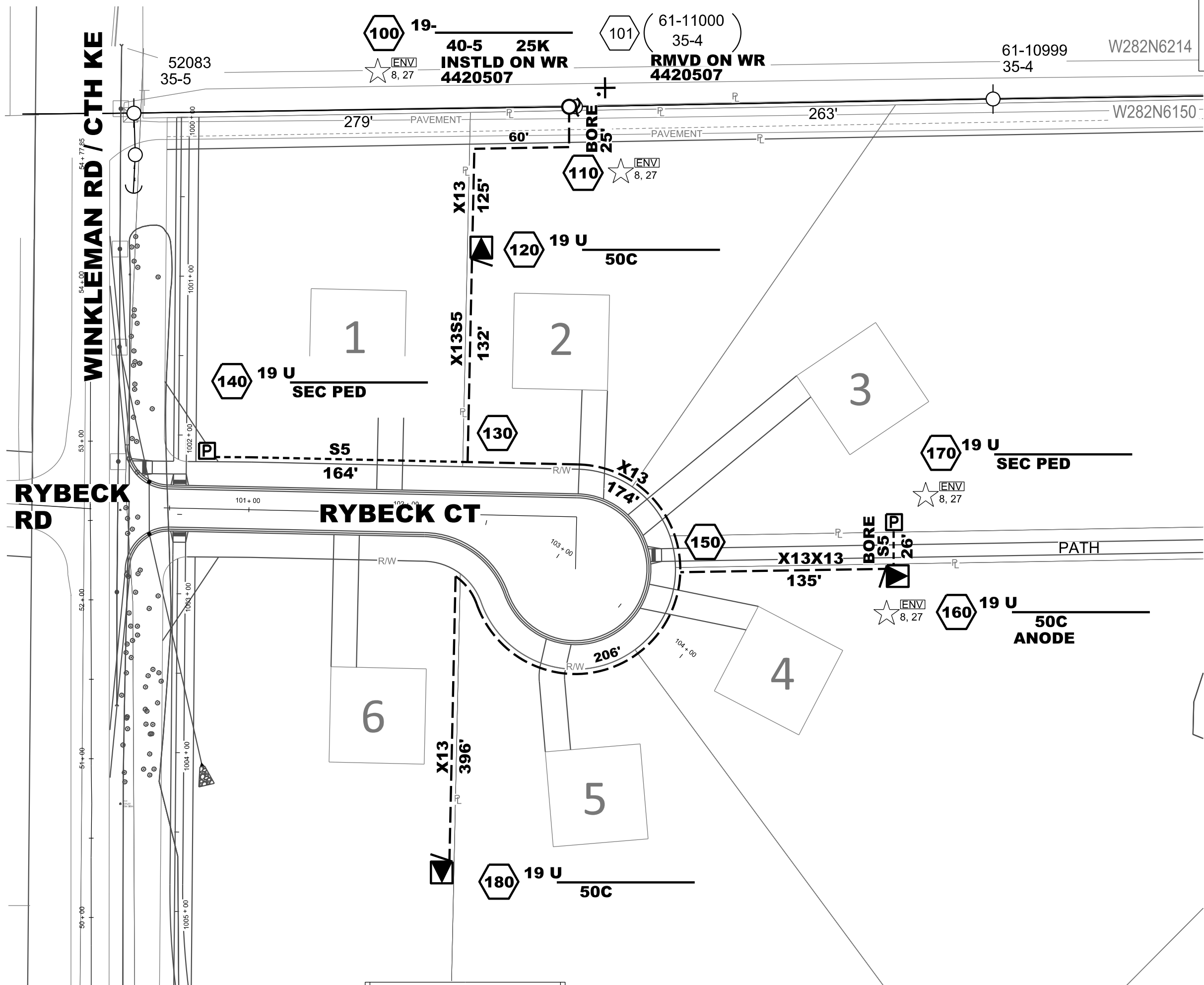
ELECTRIC WORK REQUEST

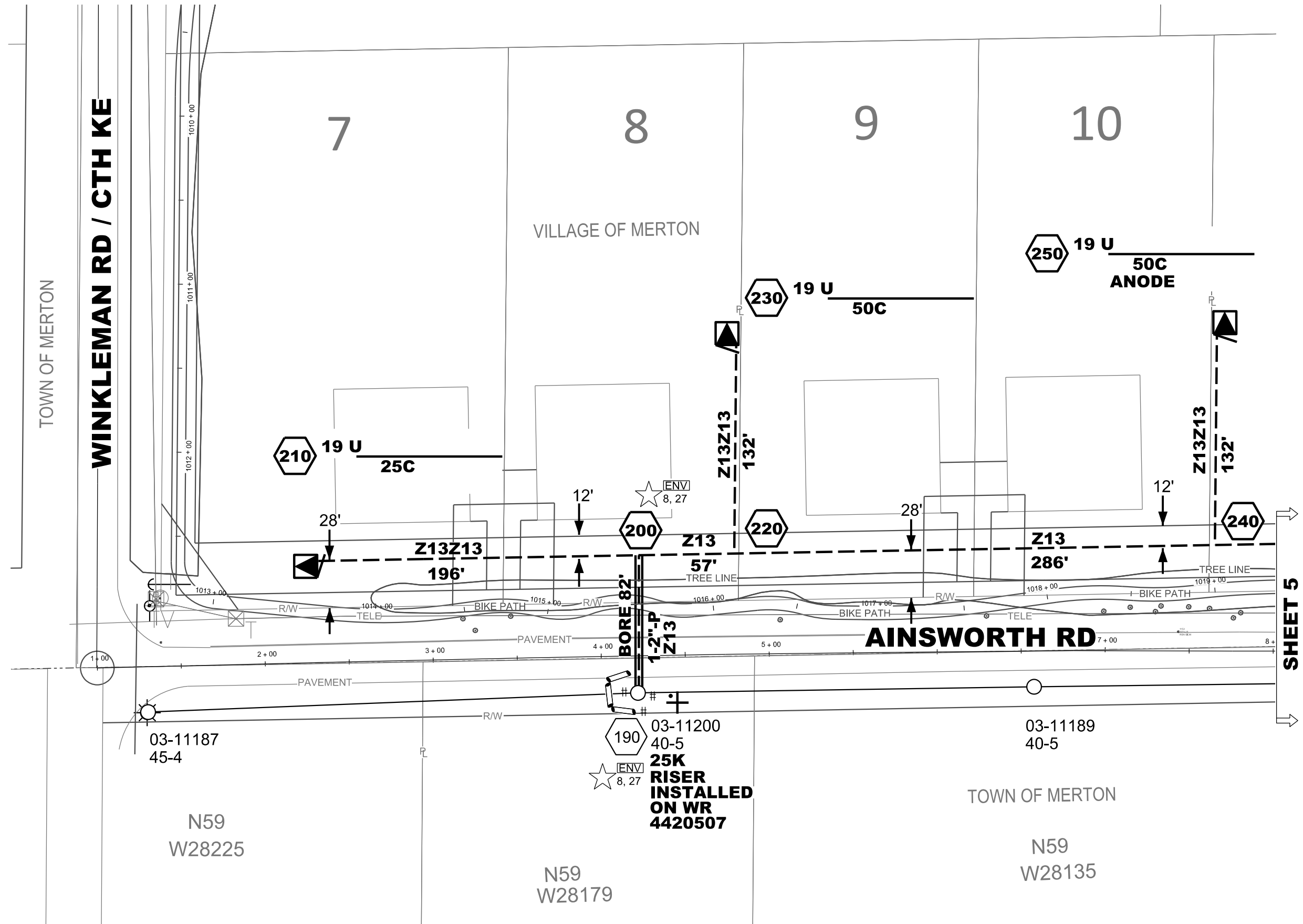
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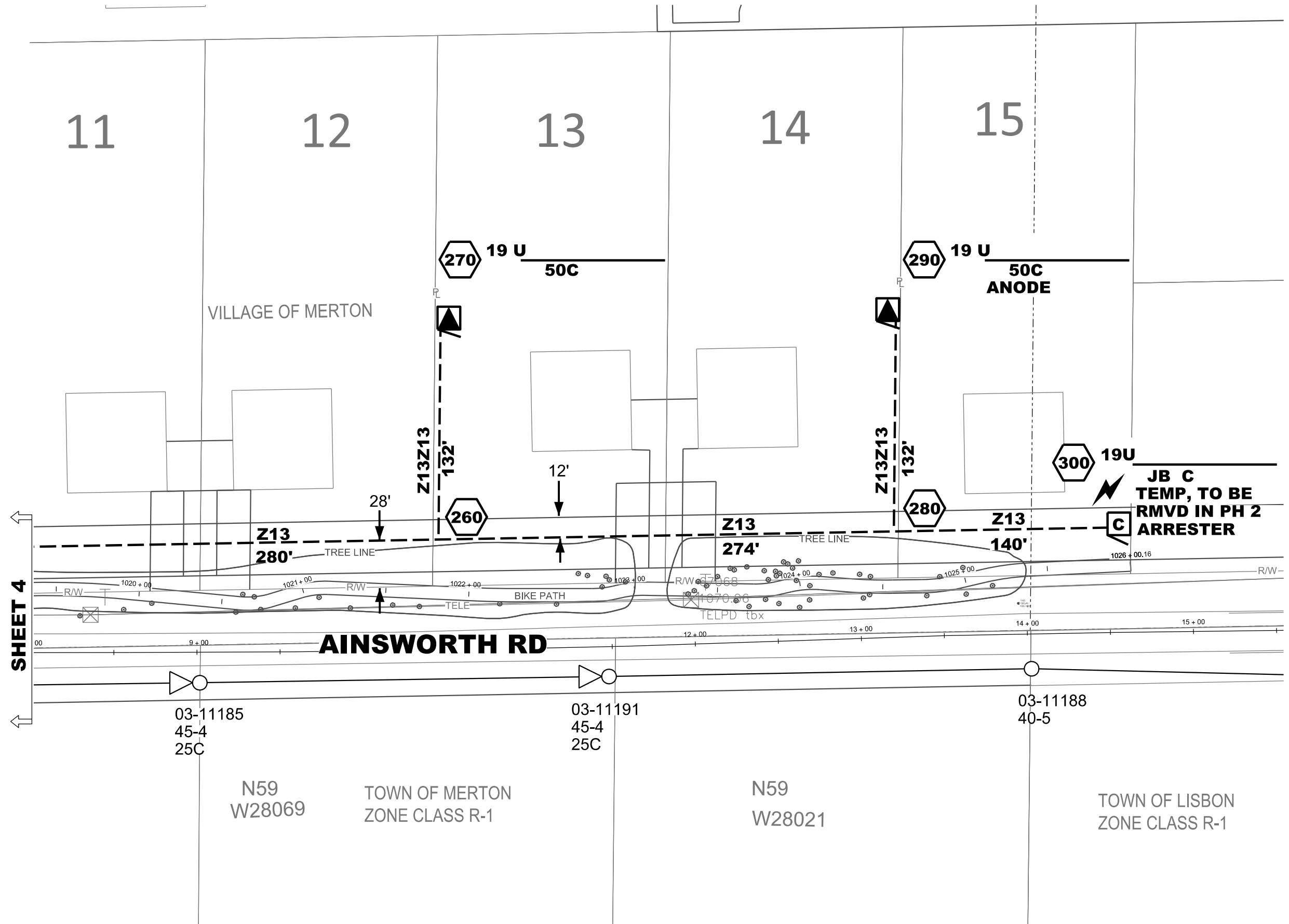
EXISTING FEEDER X35952  
Z46182

PROPOSED FEEDER X35952  
Z46182









SHEET 4



4376123

120

50C

MANUFACTURER: \_\_\_\_\_  
 KVA: \_\_\_\_\_  
 VOLTAGE: \_\_\_\_\_  
 LOCATION ID: \_\_\_\_\_  
 PHASE: \_\_\_\_\_  
 FLUID TYPE: \_\_\_\_\_  
 DESIGN IZ: \_\_\_\_\_  
 SERIAL: \_\_\_\_\_  
 MATERIAL #: \_\_\_\_\_

**FOR SOC USE ONLY**  
 WE ENERGIES EQUIPMENT ENERGIZED  Y  N  
 Customer EQUIPMENT ENERGIZED  Y  N EDC: \_\_\_\_\_  
 SWITCHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

210

25C

MANUFACTURER: \_\_\_\_\_  
 KVA: \_\_\_\_\_  
 VOLTAGE: \_\_\_\_\_  
 LOCATION ID: \_\_\_\_\_  
 PHASE: \_\_\_\_\_  
 FLUID TYPE: \_\_\_\_\_  
 DESIGN IZ: \_\_\_\_\_  
 SERIAL: \_\_\_\_\_  
 MATERIAL #: \_\_\_\_\_

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 Customer EQUIPMENT ENERGIZED  Y  N EDC: \_\_\_\_\_  
 SWITCHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

270

50C

MANUFACTURER: \_\_\_\_\_  
 KVA: \_\_\_\_\_  
 VOLTAGE: \_\_\_\_\_  
 LOCATION ID: \_\_\_\_\_  
 PHASE: \_\_\_\_\_  
 FLUID TYPE: \_\_\_\_\_  
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 SERIAL: \_\_\_\_\_  
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 Customer EQUIPMENT ENERGIZED  Y  N EDC: \_\_\_\_\_  
 SWITCHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

160

50C

MANUFACTURER: \_\_\_\_\_  
 KVA: \_\_\_\_\_  
 VOLTAGE: \_\_\_\_\_  
 LOCATION ID: \_\_\_\_\_  
 PHASE: \_\_\_\_\_  
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230

50C

MANUFACTURER: \_\_\_\_\_  
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 SWITCHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

290

50C

MANUFACTURER: \_\_\_\_\_  
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 VOLTAGE: \_\_\_\_\_  
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180

50C

MANUFACTURER: \_\_\_\_\_  
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 LOCATION ID: \_\_\_\_\_  
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 SWITCHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

250

50C

MANUFACTURER: \_\_\_\_\_  
 KVA: \_\_\_\_\_  
 VOLTAGE: \_\_\_\_\_  
 LOCATION ID: \_\_\_\_\_  
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MANUFACTURER: \_\_\_\_\_  
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 VOLTAGE: \_\_\_\_\_  
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 Customer EQUIPMENT ENERGIZED  Y  N EDC: \_\_\_\_\_  
 SWITCHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

**WE ENERGIES - ELECTRIC OPERATIONS**

UNLESS OTHERWISE NOTED IN THIS DOCUMENT, THE FOLLOWING NOTES APPLY:  
 -LOCATION OF OBSTRUCTIONS ARE FROM RECORDS AND MUST BE VERIFIED IN THE FIELD.  
 -MAINTAIN 2' MIN. CLEARANCE BETWEEN OUTSIDE FACE OF MANHOLE & BELL OF PIPE.  
 -THIS APPLIES TO GAS AND WATER MAINS.  
 -MAINTAIN 2' MIN. VERTICAL CLEARANCE AT CROSSINGS OF SEWER OR WATER MAINS.  
 -MAINTAIN 5' MIN. HORIZONTAL DIST. BETWEEN CONDUIT AND SEWER.  
 -MAINTAIN 3' MIN. HORIZONTAL DIST. BETWEEN CONDUIT AND WATER MAINS.  
 NOTE - CLEARANCES SHOWN ARE MINIMUM DISTANCES - REFERENCE PERMITS FOR SPECIFIC CLEARANCE REQUIREMENTS. ADDITIONAL UNDERGROUND INFORMATION ON EXCAVATION, BACKFILLING AND CLEARANCES CAN BE FOUND IN STD. 281-02.

OVERHEAD PRIMARY  
 E, F, H, Q, R, W, X or Z

- Z 1 #2 ACSR
- Z1 1 #1/0 ACSR
- Z2 1 #3/0 ACSR
- Z3 3 #2 ACSR
- Z4 3 #1/0 ACSR
- Z5 3 #3/0 ACSR
- Z7 3 #336 ACSR
- Z9 SPECIAL LIST ON SKETCH
- Z10 1 WIRE REMOVAL
- Z11 2 WIRE REMOVAL
- Z12 3WIRE REMOVAL

**STANDARD WIRE KEY**

- STATIC WIRE -  
 SW 1/0AS for W, H and J; 2/0AS for R
- DIRECT BURY PRIMARY - E, F, H, Q, R, W, X or Z
- Z13 1 #1 AL 25KV
  - Z14 3 #1 AL 25KV
  - Z15 3 #500 AL 28KV
  - X16 1 #2 AL 15KV
  - X17 3 #2 AL 15KV
  - X18 3 #500 AL 15KV
  - R19 3 #1/0 AL 35KV
  - R20 3 #750 AL 35KV
  - Z21 3 #750 AL 28KV
  - X22 1 #2 Cu 15kV
  - X23 3 #2 Cu 15kV
  - Z24 1 #2 Cu 25kV
  - Z25 3 #2 Cu 25kV
  - X26 3 #500 Cu 15kV
  - Z27 3 #500 Cu 28kV
  - Z28 3 #750 Cu 28kV
  - Z29 SPECIAL - LIST ON SKETCH

NEUTRAL

- N 1-#2 ACSR
  - N1 1-#1/0 ACSR
  - N2 1-#3/0 ACSR
  - N3 1-#4/0 AL
  - N4 1-#336 ACSR
  - N5 REMOVAL
- GUYING
- G 1/4" ARM GUY
  - G1 5/16" ARM GUY
  - G2 3/8" ARM GUY
  - G3 5/16" POLE GUY
  - G4 3/8" POLE GUY
  - G5 7/16" POLE GUY

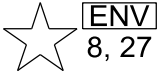




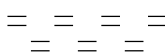

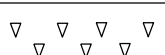
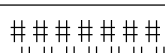
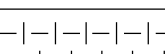
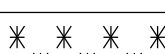
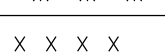
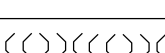




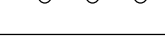
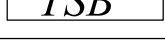
SECONDARY - 1PHASE

- S 6DX
- S1 4 TX
- S2 2 TX
- S3 1/0 TXR
- S4 3/0 TXR
- S5 350 TXR
- S6 750 TXR
- S7 1/0 TXF
- S8 4/0 TXF
- S9 336 TXR
- S10 750 TXF
- S11 3 WIRE REMOVAL
- S12 3 WIRE MAIN

SECONDARY - 3PHASE

- \$ 1/0 TXF
- \$1 4/0 TXF
- \$2 336 TXF
- \$3 3/0 TX
- \$4 350 TX
- \$5 750 TX
- \$6 1/0 QXF
- \$7 3/0 QXF
- \$8 350 QXR
- \$9 750 QXR
- \$10 3 WIRE REMOVAL
- \$11 3/0 QXR
- \$12 4 WIRE REMOVAL

**EROSION CONTROL LEGEND**

	APPROXIMATE LOCATION FOR UNDERGROUND FACILITY EXCAVATION
	INLET PROTECTION, TYPE A/B/C/D
	12" WATTLE or 12"/20" SEDIMENT LOG or 9.5"/20" EROSION EEL
	STONE DITCH CHECK
	ROCK BAG
	MULCH
	SOIL STABILIZER, TYPE A
	EROSION MAT CLASS I, TYPE A
	EROSION MAT CLASS I, TYPE B
	EROSION MAT CLASS I, TYPE A URBAN
	EROSION MAT CLASS I, TYPE B URBAN
	EROSION MAT CLASS II
	EROSION MAT CLASS III
	VEGETATIVE BUFFER
	TRACKING PAD
	TIMBER MAT
	SILT FENCE
	TEMPORARY SEDIMENT BASIN
	SURFACE WATER FLOW

**WE ENERGIES WORK REQUEST ENVIRONMENTAL NOTES (Notes 1 through 7 apply to ALL work requests)**

**General**

1. If WDNR and/or USACE permits were obtained for the project, all permit conditions shall be met during construction of the project.

**Erosion Control**

2. If soil disturbance occurs on slopes or channels/ditches leading to wetlands or waterways, or within wetlands, the disturbed areas shall be stabilized and appropriate erosion control Best Management Practices (BMP's) shall be implemented.
3. Erosion Control BMP's shall meet or exceed the approved WDNR Storm Water Management Technical Standards ([http://dnr.wi.gov/topic/stormwater/standards/const\\_standards.html](http://dnr.wi.gov/topic/stormwater/standards/const_standards.html)). Refer to We Energies Construction Site Sediment and Erosion Control Standards.
4. Inspect installed erosion control BMP's at least one time per week and after 1/2" rain events: repair as necessary.
5. When temporary stabilization is required (e.g. for winter or short-term construction) prior to final restoration, soil stabilizer shall be installed wherever possible. Erosion mat shall be used temporarily only where appropriate, in accordance with state standards, and when approved by the Operations Supervisor.

**Contaminated Soils**

6. Whenever soil exhibiting obvious signs of contamination (e.g., discoloration, petroleum or solvent odor, free liquids other than water, buried containers or tanks, or other obvious signs of environmental impacts) is encountered during excavation or installation, cease work immediately, take appropriate immediate precautions to ensure worker health and safety, and contact the Operations Supervisor or Inspector.

**Spills**

7. If an oil spill occurs during construction, call the Environmental Incident Response Team (EIRT) at 414-430-3478:
  - a. Any quantity of oil is spilled into surface water;
  - b. Any oil spill greater than 50 ppm PCB into a sewer, vegetable garden, or grazing land;
  - c. Any oil spill containing greater than 500 ppm PCB;
  - d. Five gallons or more of oil spilled to the ground;
  - e. Any oil spill involving a police department, fire department, DNR, or concerned property owner.

**Notes 8 through 27 apply as noted at specific points within each work request:**

**Dewatering**

8. Dewatering of pits or trenches shall be done in accordance with state standards. Use an approved sediment bag, a straw bale dewatering basin, a combination of both, or equivalent.

**Wetlands**

9. As much as practicable, the majority of the work shall be staged from the public roadways and road shoulders, keeping equipment out of adjacent wetlands.
10. All work shall be conducted to minimize soil disturbance. No rutting will be allowed within the wetlands.
11. If soils are not frozen or stable to a point that avoids rutting, timber mats, mud tracks, or equivalent shall be utilized to access pole locations.
12. Excavated soils cannot be stockpiled in wetlands.

**Waterways**

13. All excess spoils shall be removed from wetlands and placed in a suitable upland location.
14. Trenching and pit excavations within wetlands shall include soil segregation to facilitate restoration of pre-construction soil stratification, and restoration to pre-construction elevations.
15. Poles scheduled to be removed, and that occur within wetland, shall be cut at the ground surface.
16. No work can be performed within the banks or below the ordinary high watermark of any navigable waterways/streams.
17. No crossing of navigable waterways with equipment can occur. Foot traffic is allowed.
18. Any disturbed soil within 75-feet of the ordinary high water mark of any navigable waterways/streams shall be stabilized within 24 hours of construction completion.

**Threatened and Endangered Species**

19. Threatened or endangered species are known to occur in the work area. It is illegal to harass, harm, or kill a protected species under state and federal regulations. Proper precautions shall be taken to ensure harm to individuals is avoided.
20. In order to protect the threatened or endangered species, work must be conducted between November 5 and March 15.
21. Exclusion fencing must be installed at the work area prior to March 15.
22. A qualified biologist must be present when conducting work at this location.

**Invasive Species**

23. State regulated invasive species are known to occur in the work area. Reasonable precautions are legally required to prevent the spread of these species. The Wisconsin Council on Forestry Transportation and Utility Right-of Way Best Management Practices should be followed: (<http://council.wisconsinforestry.org/invasives/transportation/>).

**Cultural and Historical Resources, cont.**

24. The project is within or adjacent to an area that is identified by the State of Wisconsin as potentially having Native American artifacts, burial mounds or burial sites, which could be encountered during construction.
25. If human bone or any artifacts are discovered during construction, work must cease immediately. Contact the Environmental Department who will contact the State Burial Sites Preservation Office and determine the next steps that must be taken in order to comply with state law. Work at that site MAY NOT PROCEED until the Environmental Department authorizes it.
26. A "qualified archaeologist," as specified under Wis. Stats 157.70 (1) (i) and Wis. Admin. Code HS 2.04 (6), must be present to monitor all ground disturbing activities.

**Frac-out Contingency Plan**

27. A frac-out contingency plan shall be on-site and implemented accordingly. The contingency plan shall incorporate the following components.
  - a. Continuously inspect the bore paths for frac-outs in order to respond quickly and appropriately.
  - b. Containment materials (e.g. silt fence, straw bales, sand bags, etc.) shall be on site and available should a frac-out occur.
  - c. A vac truck shall be accessible on short notice in order to respond quickly to a frac-out.

