

## **APPENDIX B**

### **Detailed Preliminary Site Plan**

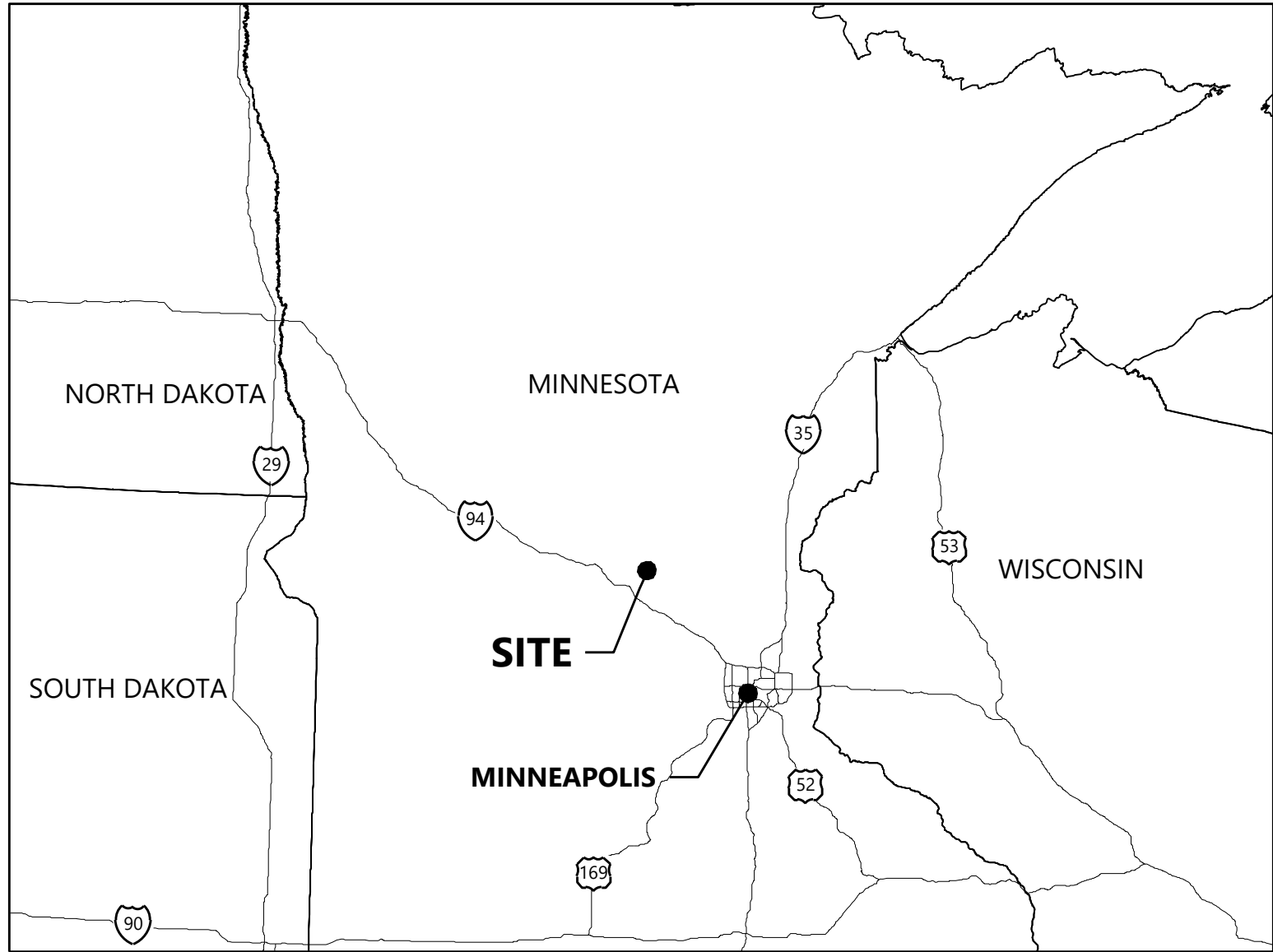
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# Benton Solar

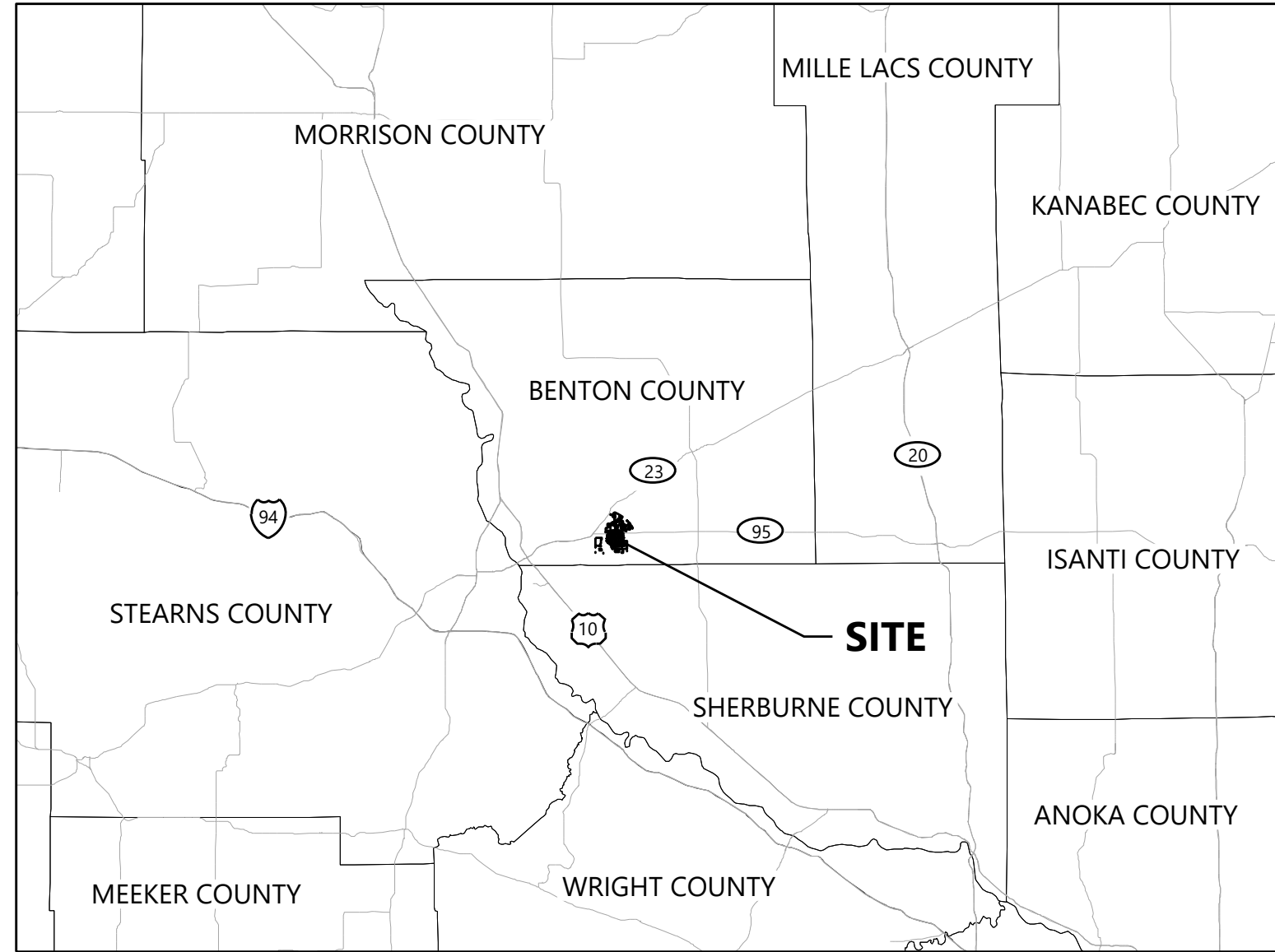
## Benton County, Minnesota

# 30% Civil Plans - Issued for Review

REGIONAL MAP



VICINITY MAP



| CONTACT INFORMATION |          |                   |              |
|---------------------|----------|-------------------|--------------|
| CONSULTANT          | COMPANY  | NAME              | PHONE NUMBER |
| PROJECT MANAGER     | WESTWOOD | CHRISTOPHER NEWBY | 704-698-5681 |
| CLIENT              | NEXTERA  | ANNIE PETERS      | 440-503-9240 |
| LEAD ENGINEER       | WESTWOOD | MITCHELL REDFEARN | 469-344-2515 |

| DATA SET INFORMATION |  |          |            |
|----------------------|--|----------|------------|
| BASE FILE            | FILE NAME/NOTES  | PROVIDER | DATE       |
| CIVIL LAYOUT         | 0041811.00C - SITE.dwg   | WESTWOOD | 06/12/2024 |
| PV ARRAY             | 0041811.00E - EQUIP.dwg  | WESTWOOD | 06/12/2024 |
| ELECTRICAL LAYOUT    | 0041811.00E - WIRE.dwg   | WESTWOOD | 06/12/2024 |
| TOPOGRAPHY           | Benton.xyz   | NEXTERA  | 04/11/2024 |
| CONSTRAINTS          | 2024.04.10 - Benton Solar KMZ For All Exclusions and Parcel Status.KMZ | NEXTERA  | 04/10/2024 |
| SUBSTATION           | Benton SS.kmz  | NEXTERA  | 10/31/2022 |
| AERIAL               | MICROSOFT CORPORATION AERIAL VIA AUTOCAD CIVIL 3D                      |          |            |

**Westwood**

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westwoodps.com

Westwood Professional Services, Inc.

PREPARED FOR:

**Benton Solar, LLC**

700 Universe Blvd,  
Juno Beach, FL 33408

| REVISIONS: |            |                       |
|------------|------------|-----------------------|
| #          | DATE       | COMMENT               |
| A          | 06/12/2024 | 30% ISSUED FOR REVIEW |
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**Benton Solar  
Project**

Benton County, Minnesota

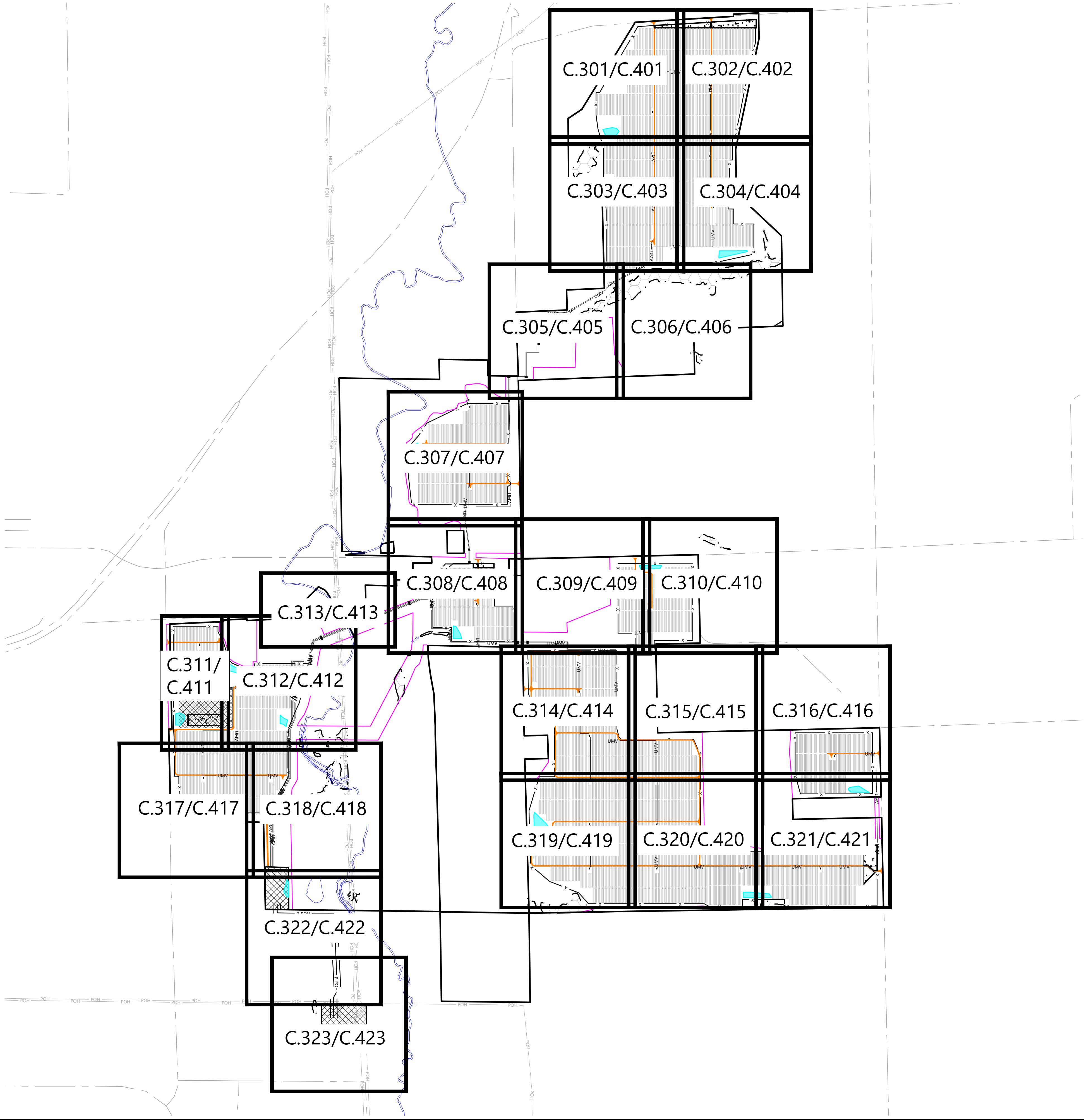
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**PRELIMINARY  
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DATE: 06/12/2024

SHEET: C.001

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LEGEND:

PROJECT BOUNDARY

SITE BOUNDARY

EX. OVERHEAD POWER

EX. WATER EDGE

EX. ASPHALT CENTERLINE

EX. WETLAND

PROPOSED ACCESS ROAD

PROPOSED SECURITY FENCE

PROPOSED UNDERGROUND COLLECTION

PROPOSED ELECTRICAL EQUIPMENT

PROPOSED LAYDOWN YARD

PROPOSED SOLAR ARRAY

PROPOSED PERMANENT BASIN

PROPOSED FACILITIES

PROPOSED TRANSMISSION LINE

C.XXX

SHEET INDEX/NUMBER

| Sheet List Table |                             |
|------------------|-----------------------------|
| SHEET NUMBER     | SHEET TITLE                 |
| C.001            | Cover                       |
| C.100            | Civil Site Plan Index Sheet |
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| T.102            | Project Data                |
| C.201            | Overall Site Plan           |
| C.301            | Civil Site Plan             |
| C.302            | Civil Site Plan             |
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| C.323            | Civil Site Plan             |
| C.401            | Erosion Control Plan        |
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| C.421            | Erosion Control Plan        |
| C.422            | Erosion Control Plan        |
| C.423            | Erosion Control Plan        |
| C.601            | Construction Details        |
| C.602            | Construction Details        |
| C.603            | Construction Details        |
| C.604            | Construction Details        |
| C.605            | Construction Details        |

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0' 800' 1600' 2400'

Benton Solar Project

Benton County, Minnesota

Civil Site Plan Index Sheet

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SHEET: C.100



1. THE ROAD HAS BEEN DESIGNED TO ACCOMMODATE LOADS DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATING CONDITIONS, THE ROAD DESIGN SPECIFIED IS NOT INTENDED FOR ALL WEATHER USE FOR HEAVY DUTY, HIGH VOLUME CONSTRUCTION LOADS.
2. ROAD MAINTENANCE CAN BE EXPECTED DURING CONSTRUCTION AND OVER THE LIFE OF THE PERMANENT FACILITY.

GENERAL

- a. THIS SECTION DESCRIBES WORK RELATED TO EARTHWORK AND MAY INCLUDE CLEARING AND GRUBBING, EXCAVATIONS, SUBGRADE, AGGREGATE PLACEMENT, GENERAL FILL, STABILIZATION, ANY ASSOCIATED INSPECTIONS AND TESTING OF EARTHWORK, AND ALL OTHER WORK NECESSARY TO COMPLETE EARTHWORK FOR THE PROJECT.
- b. THIS SECTION DOES NOT ADDRESS EARTHWORK ASSOCIATED WITH SHALLOW FOUNDATION SUBGRADE PREPARATION. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION-RELATED EARTHWORK SPECIFICATIONS.

2. SUBMITTALS

- a. THE FOLLOWING MATERIAL SUBMITTALS ARE REQUIRED FOR REVIEW BY THE CIVIL ENGINEER OF RECORD (EOR) PER SPECIFIC PRODUCT AND PRE-PLACEMENT:
  - a.1. ON-SITE BORROW SOURCE
  - a.2. IMPORTED FILL MATERIAL
  - a.3. AGGREGATE
  - a.4. RIPRAP
  - a.5. GEOSYNTHETIC FABRIC
  - a.6. CULVERTS
  - a.7. LOW WATER CROSSINGS
- b. EROSION AND SEDIMENT CONTROL (BMP) PRODUCT SUBMITTALS ARE NOT REQUIRED. REFER TO THE NPDES PERMIT FOR INFORMATION.
- c. REFER TO TABLE 1 FOR REQUIRED TESTS FOR EACH SUBMITTAL.

- a. GENERAL FILL
  - a.1. GENERAL FILL MATERIAL SHALL CONSIST OF ON-SITE SAND, SILTY SAND, CLAYEY SAND, SANDY LEAN CLAY, OR LEAN CLAY WITH A LIQUID LIMIT LESS THAN 45 AND A PLASTICITY INDEX LESS THAN 23.
  - a.2. GENERAL FILL SHALL BE USED FOR MASS GRADING ASSOCIATED WITH ACCESS ROADS, PV ARRAY, EQUIPMENT SKID BACKFILL, EMBANKMENTS, SUBSTATION AREA, O&M AREA, AND LAYDOWN AREAS.
- b. AGGREGATE MATERIAL
  - b.1. AGGREGATE MATERIAL SHALL CONSIST OF MINNESOTA DOT CLASS 5 AGGREGATE BASE. SEE TABLE 2 FOR GRADATION.
  - b.2. AGGREGATE MATERIAL SHALL BE USED FOR ACCESS ROADS, EQUIPMENT APRONS, SUBSTATION AREA, O&M AREA, AND LAYDOWN AREAS.
- c. GEOTEXTILE
  - c.1. ROAD APPLICATIONS
    - c.1.1. GEOTEXTILE SHALL CONSIST OF MIRAFI HP 270 GEOTEXTILE FABRIC OR CIVIL ENGINEER APPROVED EQUAL.
    - c.1.2. GEOTEXTILE SHALL BE USED FOR ACCESS ROADS AND SUBSTATION AREA AS SHOWN ON THE DRAWINGS.
  - c.2. DRAINAGE APPLICATIONS
    - c.2.1. GEOTEXTILE SHALL CONSIST OF MIRAFI 140N GEOTEXTILE FABRIC OR CIVIL ENGINEER APPROVED EQUAL.
    - c.2.2. GEOTEXTILE SHALL BE USED FOR RIPRAP AREAS AND AS SHOWN ON THE DRAWINGS.
- d. RIPRAP
  - d.1. RIPRAP SHALL CONSIST OF ROCK THAT MEETS D50 REQUIREMENTS SPECIFIED IN THE PLANS. D50 SHALL BE MEASURED BY TAKING A REPRESENTATIVE SAMPLE OF THE RIPRAP MATERIAL AND MEASURING 100 STONES IN THE 3 GENERAL DIMENSIONS OF LENGTH, WIDTH, AND THICKNESS. THE AVERAGE INTERMEDIATE DIMENSION SHALL BE EQUAL TO THE D50 VALUE OR GREATER. INTERMEDIATE DIMENSION IS DEFINED AS THE LONGEST, STRAIGHT-LINE DISTANCE ACROSS THE ROCK THAT IS PERPENDICULAR TO THE LONGEST AXIS ON THE FACE OF THE ROCK WITH THE LARGEST PROJECTION PLANE. FOR THE IDEALIZED ROCK PARTICLE SHOWN IN FIGURE 1, THIS WOULD BE DIMENSION 'B'. REFERENCE FLH DESIGNATION T 521-13 "DETERMINING RIPRAP GRADATION BY WOLMAN COUNT" FOR FURTHER INFORMATION.



- d.2. RIPRAP SHALL BE USED FOR CULVERT ENDS, STILLING BASINS, DRAINAGE SWALES, PROTECTED ROAD CROSSINGS, AND BASIN OUTLETS AS SHOWN ON THE DRAWINGS.
- e. CULVERTS
- e.1. CULVERTS SHALL HAVE NO END TREATMENTS UNLESS OTHERWISE NOTED OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION
- e.2. PERMANENT CULVERTS SHALL BE MINIMUM 16-GAGE CORRUGATED METAL PIPE AND FOLLOW MANUFACTURER RECOMMENDATIONS.

- a. CLEARING AND GRUBBING
  - a.1. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL TREES, STUMPS, BRUSH, AND DEBRIS WITHIN THE GRADING AREAS SHOWN ON THE PLANS. THE CONTRACTOR IS TO REMOVE ONLY THOSE TREES WHICH ARE DESIGNATED BY THE OWNER'S REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING TREES TO BE SAVED.
- b. EXCAVATIONS
  - b.1. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS ( AT A MINIMUM DEPTH OF  $\pm 6$  INCHES ) ( THROUGH THE ROOT ZONE ). TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THE DESIGNATED DISTURBANCE AREAS.
  - b.2. ANY TOPSOIL THAT HAS BEEN STRIPPED SHALL BE RE-SPREAD OR STOCKPILED WITHIN GRADING AREAS AND/OR USED AS FILL OUTSIDE OF THE DISTURBANCE AREAS, AS DIRECTED BY THE CIVIL ENGINEER. ALL TOPSOIL SHALL BE REDISTRIBUTED TO THE LAND OWNER'S PROPERTY OF WHERE IT ORIGINATED FROM. SEEDING AND MULCHING TO BE UNDER THE DIRECTION OF THE PROPERTY OWNER.
- c. SUBGRADE
  - c.1. SUBGRADE SOIL BELOW FILL SHALL BE COMPACTED AND PROOF-ROLLED IN ACCORDANCE WITH TABLE 1.
  - c.2. WHERE APPLICABLE, GEOTEXTILE FABRIC SHALL BE PLACED AFTER SUBGRADE TESTING REQUIREMENTS AS SPECIFIED IN TABLE 1. GEOTEXTILE FABRIC SHALL BE INSTALLED PER MANUFACTURE RECOMMENDATION.
- d. GENERAL FILL
  - d.1. FILL MAY BE PLACED ABOVE GRADE AFTER TOPSOIL STRIPPING, IN LOOSE LIFTS NOT EXCEEDING 9 INCHES, AND COMPACTED IN ACCORDANCE WITH TABLE 1.
  - d.2. SIDE SLOPES GREATER THAN 3:1 WILL NOT BE PERMITTED, UNLESS OTHERWISE NOTED ON THE PLAN.
- e. AGGREGATE PLACEMENT
  - e.1. SUBSEQUENT TO THE SUBGRADE PREPARATION, THE AGGREGATE BASE SHALL BE PLACED, COMPACTED, AND TESTED TO THE SPECIFICATIONS IDENTIFIED IN TABLE 1.
- f. SEEDING, MULCHING, AND STABILIZATION
  - f.1. PRIOR TO FINAL STABILIZATION, TOPSOIL SHALL BE DISTRIBUTED OVER THE EXPOSED DISTURBED AREAS, EXCLUDING THE AGGREGATE DRIVING SURFACE.
  - f.2. FOLLOWING ROUGH GRADING OPERATIONS, TOPSOIL CAN BE USED TO BRING THE GROUND ELEVATIONS UP TO THE DESIGNED FINISHED GRADE ELEVATIONS IN NON-STRUCTURAL AREAS.
  - f.3. ALL DISTURBED AREAS SHALL HAVE TEMPORARY AND PERMANENT STABILIZATION MEASURES ESTABLISHED IN ACCORDANCE WITH THE NPDES PERMIT.

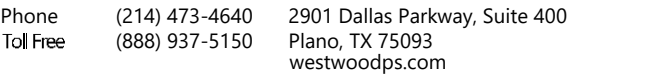
- a. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY
- b. TESTING AND INSPECTION RECORDS SHALL BE MAINTAINED BY THE CONTRACTOR AND MADE ACCESSIBLE TO THE CIVIL EOR AT THEIR REQUEST
- b.1. THE CIVIL ENGINEER MAY REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE CIVIL ENGINEER'S REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK.
- c. REFER TO TABLE 1 FOR PROJECT TESTING SPECIFICATIONS
- d. PROOF ROLLING: PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE
- d.1. UNSTABILIZED SUBGRADE AND AGGREGATE BASE SHALL BE PROOF ROLLED USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 25 TONS OR A FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING

|  | Location  | Required Test        | ASTM Standard | Frequency  | Specified Criteria  |
|--|---|----------------------|---------------|--|---|
| Subgrade<br>(Non-cement<br>Stabilized) | Access Roads<br>Equipment Skid Backfill<br>Substation Area<br>O&M Area                            | Standard Proctor     | ASTM D-698    | 1 per soil type as determined by independent testing agency  | N/A   |
|  |   | Nuclear Density      | ASTM D-6938   | Roads: 1 test per 2,500 LF (minimum 1 per road)<br>Areas: 1 test per 5,000 SF (minimum 1 per area) | 95% of Standard Proctor Maximum Dry Density<br>+/- 2% of Optimum Moisture Content   |
|  |   | Proof Roll           | N/A           | Entire Length / Area   | No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded truck. See testing requirements for additional information.     |
|  | Laydown Areas   | Proof Roll           | N/A           | Entire Length / Area   | No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded truck. See testing requirements for additional information.     |
| General Fill<br>(for Mass Grading)     | Source<br>(On -Site Borrow)<br>(Imported Fill)<br>(Common Excavation)                             | Standard Proctor     | ASTM D-698    | 1 per soil type/source as determined by independent testing agency                                 | N/A   |
|  |   | Moisture Content     | ASTM D-2216   |  | LL < 45 and PI < 20   |
|  |   | Atterberg Limits     | ASTM D-4318   |  |   |
|  | Access Roads<br>PV Array<br>Equipment Skid Backfill<br>Embankments<br>Substation Area<br>O&M Area | Nuclear Density      | ASTM D-6938   | 1 test per 5,000 SF per lift.<br>1 test per 30,000 SF per lift (PV Array only)                     | 95% of Standard Proctor Maximum Dry Density<br>+/- 2% of Optimum Moisture Content   |
|  |   | Proof Roll           | N/A           | Entire Length / Area (Final Surface)   | No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded truck. See earthwork specifications for additional information. |
| Aggregate Material                     | Quarry Testing<br>(Pre-Placement)   | Grain Size Analysis  | ASTM C-136    | Per source from quarry.<br>Sample from site every 5,000CY.   | See Table 2   |
|  |   | Standard Proctor     | ASTM D-698    |  | N/A   |
|  |   | Moisture Content     | ASTM D-2216   |  | See Table 2   |
|  |   | Atterberg Limits     | ASTM D-4318   |  | See Table 2   |
|  |   | Los Angeles Abrasion | ASTM C-131    |  | See Table 2   |
|  | Access Roads<br>Equipment Aprons<br>Substation (Base Aggregate Only)<br>O&M Area                  | Proof Roll           | N/A           | Entire Length / Area   | No rutting greater than 1.5" and no "pumping" of the soil beneath/behind the loaded truck. See earthwork specifications for additional information. |

| SIEVE SIZE   | PERCENT PASSING |
|--|-----------------|
| 2"   | 100             |
| 1-1/2"   | 100             |
| 3/4"   | 70-100          |
| 3/8"   | 45-90           |
| #4   | 35-80           |
| #10  | 20-65           |
| #40  | 10-35           |
| #200   | 3-10            |
| PLASTICITY INDEX = 5-12<br>LA ABRASION (% MAX) = 40% |                 |

1. CONSTRUCTION PLANS ARE BASED OFF THE COORDINATE SYSTEM MINNESOTA STATE PLANES, CENTRAL ZONE, US FOOT.
2. SITE DRAINAGE INFRASTRUCTURE INCLUDING SWALES, ACCESS ROAD SWALE CROSSINGS, AND OUTLET FEATURES ARE SIZED FOR A 10 YEAR 24HR RAIN EVENT, 3.94 INCHES PER HOUR NOAA ATLAS 14, VOLUME 8, VERSION 2.
3. THE EXISTING PLANIMETRIC DATA IS FROM AERIAL IMAGERY, DATED 09/02/2022.
4. THE ELEVATIONS AND CONTOURS SHOWN ON THESE CONSTRUCTION DRAWINGS WERE PREPARED FROM SAM AERIAL LIDAR DATA, 05/23/2022. THE CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER WHEN THEY FIND THAT GROUND ELEVATIONS DETERMINED DURING FIELD STAKING VARY FROM THE GROUND ELEVATIONS SHOWN ON THE DRAWINGS FOR POTENTIAL DESIGN MODIFICATIONS.
5. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED AND ARE NOT TO BE REMOVED WITHOUT PERMISSION FROM THE OWNER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONSTRUCTION ACTIVITIES SHALL NOT BLOCK THE NATURAL DRAINAGE SWALES CAUSING RAINWATER TO POND. IF CULVERTS ARE NEEDED, THE CIVIL ENGINEER MUST BE CONTACTED FOR APPROPRIATE SIZING OF STRUCTURE. WHEN INSTALLING DRAINAGE CROSSINGS, THE CONTRACTOR SHALL USE JUDGMENT IN SETTING THE FLOW LINE ELEVATIONS TO PROVIDE POSITIVE DRAINAGE. WHEN POSSIBLE, ALL CULVERTS SHOULD BE PLACED AT A MINIMUM 0.5% GRADE.
7. ANY FACILITIES REMOVED TO ALLOW FOR CONSTRUCTION (MAILBOXES, SIGNS, FENCES, ETC.) SHALL BE REPLACED BY THE CONTRACTOR IN A CONDITION AS GOOD AS PRE-EXISTING UNLESS INDICATED FOR REMOVAL.
8. THE CONTRACTOR SHALL NOTIFY MINNESOTA 811 AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
9. ALL CONSTRUCTION PERFORMED SHALL CONFORM WITH THE CURRENT STANDARDS AND SPECIFICATION OF BENTON COUNTY. WHERE DISCREPANCIES EXIST BETWEEN THE PROJECT SPECIFICATIONS AND THE COUNTY SPECIFICATIONS OR STANDARD, THE CONTRACTOR SHALL ABIDE BY THE GREATER OR MORE RESTRICTIVE REQUIREMENTS.
10. ELECTRONIC FILES ARE AVAILABLE FOR CONSTRUCTION OPERATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS, AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE COUNTY/MUNICIPALITY AND CIVIL ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
12. CULVERTS UNDER PERIMETER FENCE LOCATIONS SHALL HAVE A GATE INSTALLED ON END OUTSIDE PERIMETER FENCE.
13. TEMPORARY FEATURES SHALL, UPON COMPLETION OF ALL PROJECT CONSTRUCTION OR UPON NOTIFICATION OF THE CIVIL ENGINEER, BE REMOVED AND THE AREA RESTORED TO APPROXIMATELY ORIGINAL LINES AND GRADES WITH TOPSOIL REPLACED, EXCEPT WHERE REQUESTED BY THE TOWNSHIP OR COUNTY TO PERMANENTLY REMAIN.
14. ELECTRICAL INFORMATION SHOWN ON THE PLANS IS FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SPECIFIC LOCATIONS AND CONSTRUCTION DETAILS.
15. WETLAND INFORMATION HAS NOT BEEN PROVIDED BY THE OWNER. ALL WETLAND DELINEATIONS AND PERMITTING SHALL BE THE RESPONSIBILITY OF OTHERS. THE OWNER AND CONTRACTOR SHALL VERIFY THAT ALL WETLAND PERMITS HAVE BEEN SUBMITTED AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.
16. CULTURAL RESOURCE INFORMATION HAS NOT BEEN PROVIDED BY THE OWNER. THE CONTRACTOR SHALL BE FAMILIAR WITH THE INFORMATION/REPORT AND REVIEW ALL RECOMMENDATIONS.
17. AN ENVIRONMENTAL ASSESSMENT HAS NOT BEEN PROVIDED. THE CONTRACTOR SHALL BE FAMILIAR WITH THE INFORMATION/REPORT AND REVIEW ALL RECOMMENDATIONS.
18. WILDLIFE REPORT(S) HAVE NOT BEEN PROVIDED. THE CONTRACTOR SHALL BE FAMILIAR WITH THE INFORMATION/REPORT(S) AND REVIEW ALL RECOMMENDATIONS.
19. CONTRACTOR TO MINIMIZE IMPORT AND EXPORT OF SOIL DURING CONSTRUCTION.

1. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE MINNESOTA POLLUTION CONTROL AGENCY AND BEING IN CONFORMANCE WITH THE MINNESOTA POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL STORMWATER PERMIT. SEE THE PROJECT SITE PLANS AND ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR EROSION CONTROL AND RESTORATION LOCATIONS AND SPECIFICATIONS. UNLESS OTHERWISE NOTED OR MODIFIED IN THE SWPPP/HEREIN, ALL SECTIONS OF THE GENERAL CONDITIONS SHALL APPLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SWPPP'S AVAILABILITY.
3. ALL TOP SOIL, BERM, FIBER ROLL, AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED.
4. ALL DRAINAGE SWALES DISTURBED DURING CONSTRUCTION ACTIVITIES AND NOT COVERED BY ROAD SURFACING MATERIALS, SHALL BE STABILIZED IN ACCORDANCE WITH THE SWPP PLAN.



Westwood Professional Services, Inc.

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Juno Beach, FL 33408

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# Benton County, Minnesota

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SHEET: T.101



PREPARED FOR:

Benton Solar, LLC

700 Universe Blvd,  
Juno Beach, FL 33408

| REVISIONS: |            |                       |
|------------|------------|-----------------------|
| #          | DATE       | COMMENT               |
| A          | 06/12/2024 | 30% ISSUED FOR REVIEW |
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| PROJECT DETAILS            |        |
|----------------------------|--------|
| SITE BOUNDARY (ACRES)      | 952    |
| FENCED AREA (ACRES)        | 608.3  |
| FENCING LENGTH (LF)        | 58,788 |
| GATE COUNT (EA)            | 12     |
| ACCESS ROAD LENGTH (LF)    | 40,121 |
| ACCESS ROAD WIDTH (LF)     | 10     |
| SUBSTATION ROAD WIDTH (LF) | 20     |
| SILT FENCE (LF)            | 43,738 |
| LAYDOWN AREA (ACRES)       | 7.33   |
| DC CAPACITY (MW)           | 140    |
| AC CAPACITY (MW)           | 100    |

| CROSSING SCHEDULE |                          |                                |                             |                  |
|-------------------|--------------------------|--------------------------------|-----------------------------|------------------|
| CROSSING          | 10-YR LOW WATER CROSSING | LOW WATER CROSSING LENGTH (FT) | 10-YR CULVERT DIAMETER (IN) | CULVERT MATERIAL |
| DC-01             | Standard Duty            | 95                             | NA                          | NA               |
| DC-02             | Standard Duty            | 195                            | NA                          | NA               |
| DC-03             | Heavy Duty               | 100                            | NA                          | NA               |
| DC-04             | Standard Duty            | 100                            | NA                          | NA               |
| DC-06             | Heavy Duty               | 400                            | NA                          | NA               |
| DC-07             | Standard Duty            | 105                            | NA                          | NA               |
| DC-08             | Standard Duty            | 120                            | NA                          | NA               |
| DC-09             | Standard Duty            | 135                            | NA                          | NA               |
| DC-10             | Standard Duty            | 600                            | NA                          | NA               |
| EC-01             | NA                       | NA                             | 1-18"                       | CMP              |
| EC-03             | NA                       | NA                             | 1-18"                       | CMP              |
| EC-04             | NA                       | NA                             | 1-18"                       | CMP              |
| EC-05             | NA                       | NA                             | 1-18"                       | CMP              |
| EC-06             | NA                       | NA                             | 1-18"                       | CMP              |
| EC-07             | NA                       | NA                             | 1-24"                       | CMP              |
| EC-08             | NA                       | NA                             | 1-24"                       | CMP              |
| EC-09             | NA                       | NA                             | 1-24"                       | CMP              |
| EC-10             | NA                       | NA                             | 1-18"                       | CMP              |
| EC-11             | NA                       | NA                             | 1-18"                       | CMP              |
| EC-12             | NA                       | NA                             | 1-18"                       | CMP              |
| EC-13             | NA                       | NA                             | 1-18"                       | CMP              |

Benton Solar Project

Benton County, Minnesota

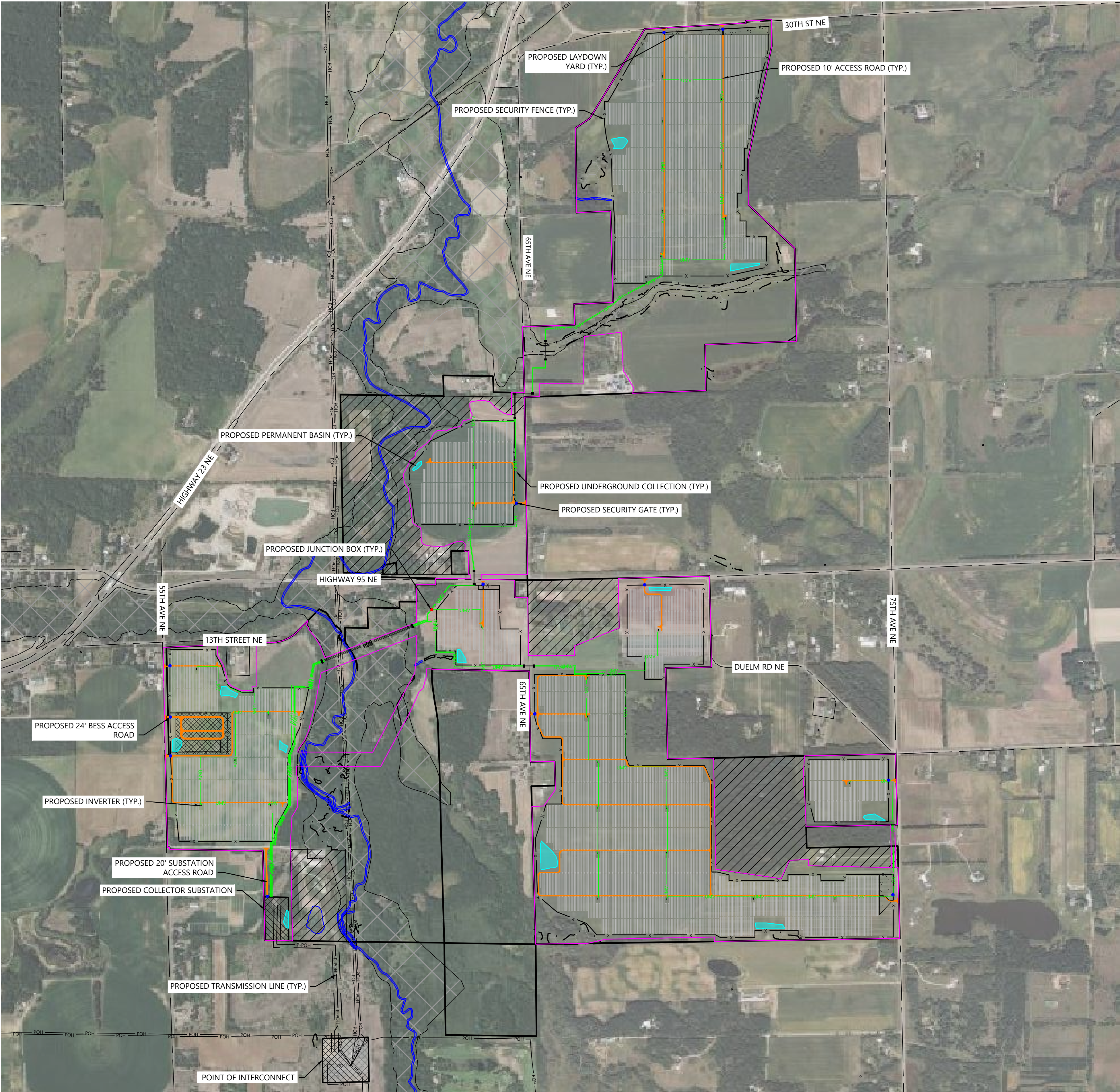
Project Data

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- LEGEND:**
- PROJECT BOUNDARY
  - SITE BOUNDARY
  - EX. WETLAND
  - EX. WATER EDGE LINE
  - EX. OVERHEAD POWER
  - PROPOSED RIGHT-OF-WAY LINES
  - PROPOSED SOLAR ARRAY
  - PROPOSED ACCESS ROAD
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  - PROPOSED BORE PIT
  - PROPOSED HDD BORE LINE

| BENTON SOLAR PROJECT DATA        |                 |
|----------------------------------|-----------------|
| LATITUDE                         | 45.59           |
| LONGITUDE                        | -94.09          |
| RACK TYPE                        | NexTracker      |
| TILT                             | +/- 52°         |
| AZIMUTH                          | 0°              |
| PITCH                            | 21.35 FT        |
| GROUND COVERAGE RATIO            | 35%             |
| RANGE OF MOTION (DEGREES)        | N/A             |
| MODULE                           | Jinko 390 W     |
|                                  | BYD Solar 595 W |
| TOTAL MODULE QUANTITY            | 260,208         |
| TOTAL DC CAPACITY                | 140 MW          |
| INVERTER                         | SMA SC 4000     |
| INVERTER COUNT                   | 29              |
| AC CAPACITY                      | 100 MW          |
| DC/AC RATIO                      | 1.4             |
| ACCESS ROAD TURN RADIUS          | 40'             |
| SUBSTATION ROAD TURN RADIUS      | N/A             |
| BESS                             |                 |
| PE FS4200M                       | 100 MW x 4-Hr   |
| BATTERY CONTAINERS               | 128             |
| AUGEMENTATION BATTERY CONTAINERS | 48              |
| INVERTERS                        | 32              |
| AUGEMENTATION INVERTERS          | 12              |

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**Benton Solar  
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Benton County, Minnesota

Overall Site Plan

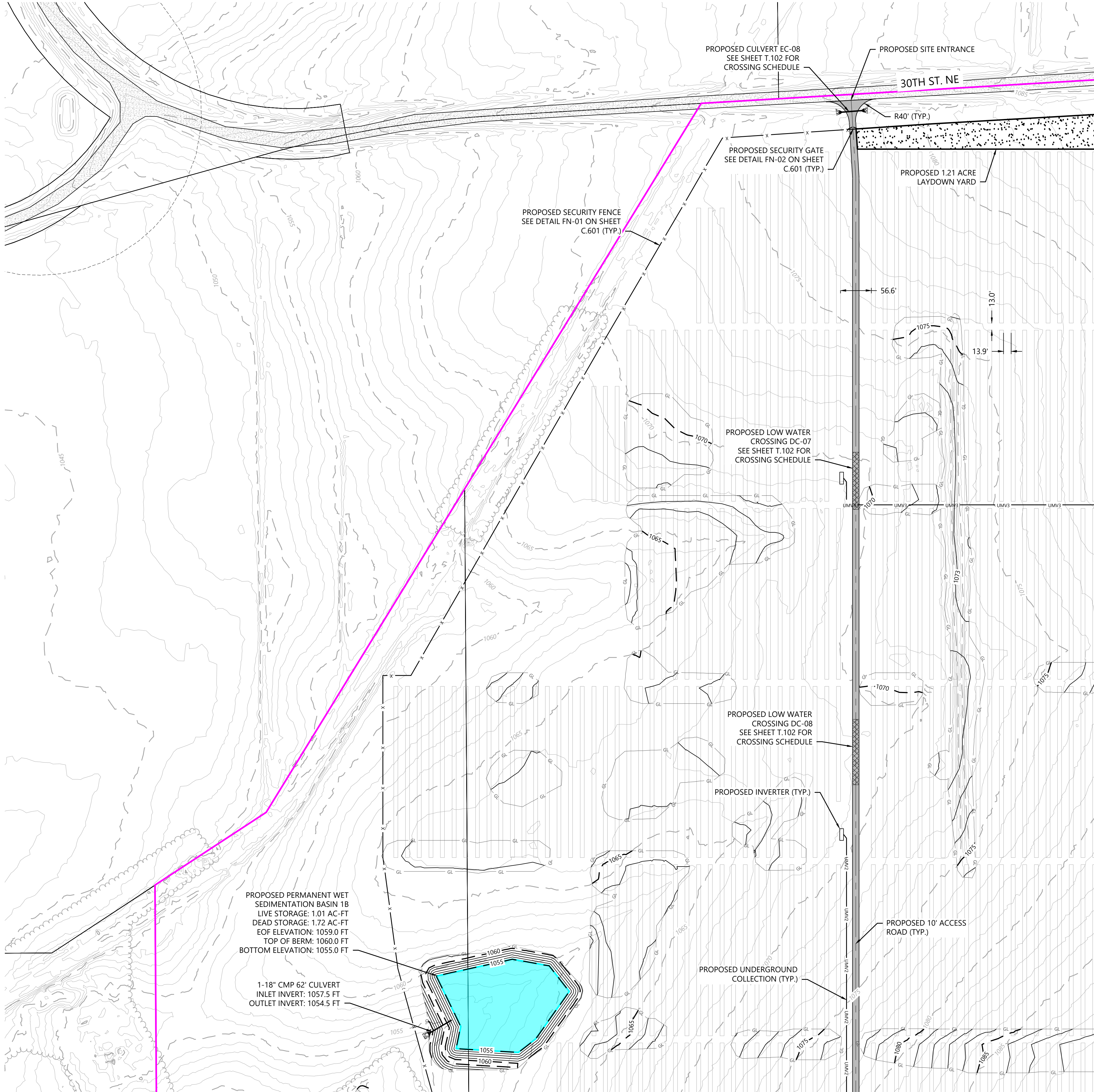
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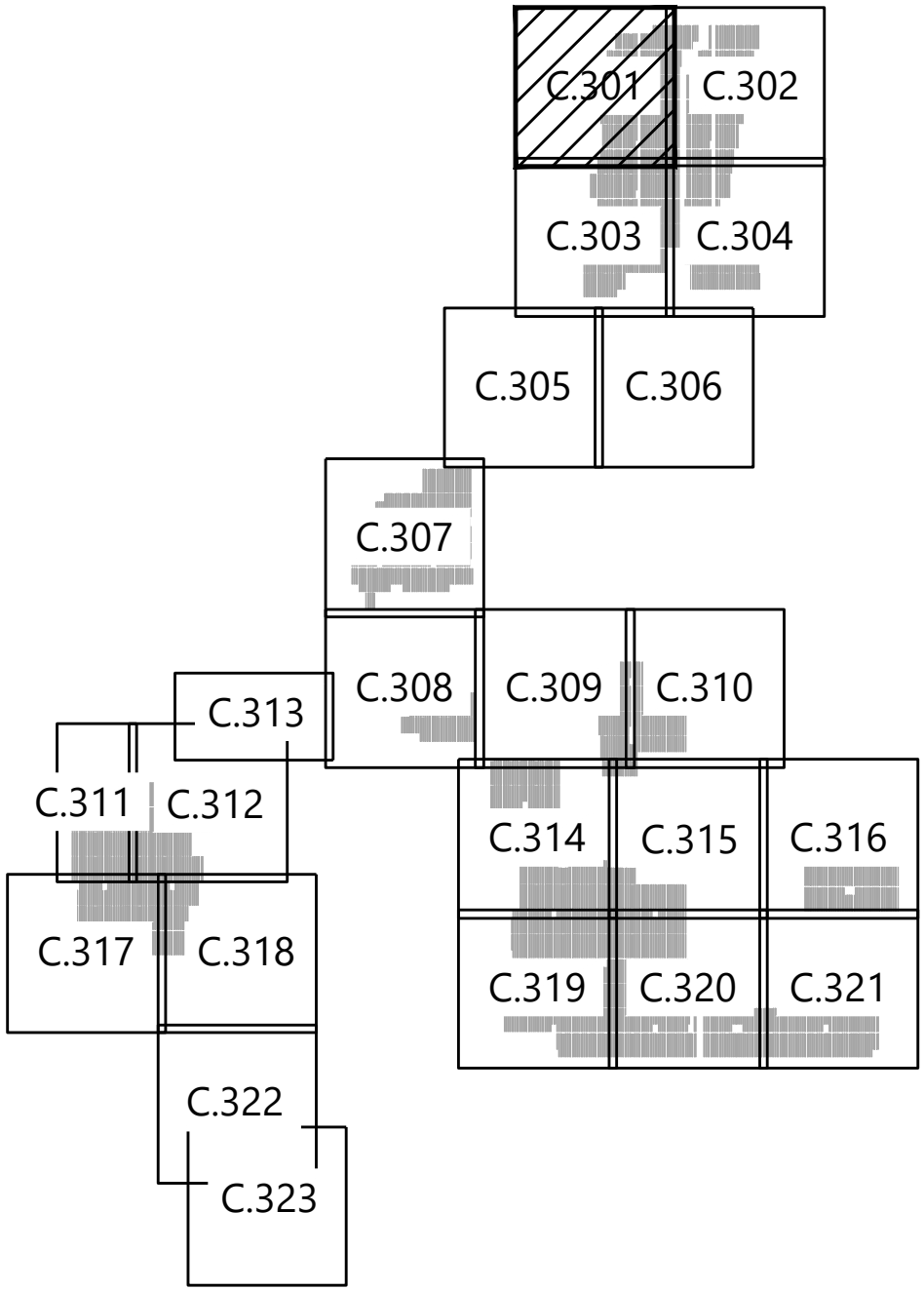


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- LEGEND:
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  - SITE BOUNDARY
  - PARCEL LINES
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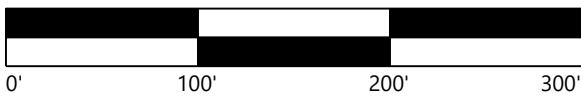
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Benton Solar  
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Benton County, Minnesota

Civil Site Plan

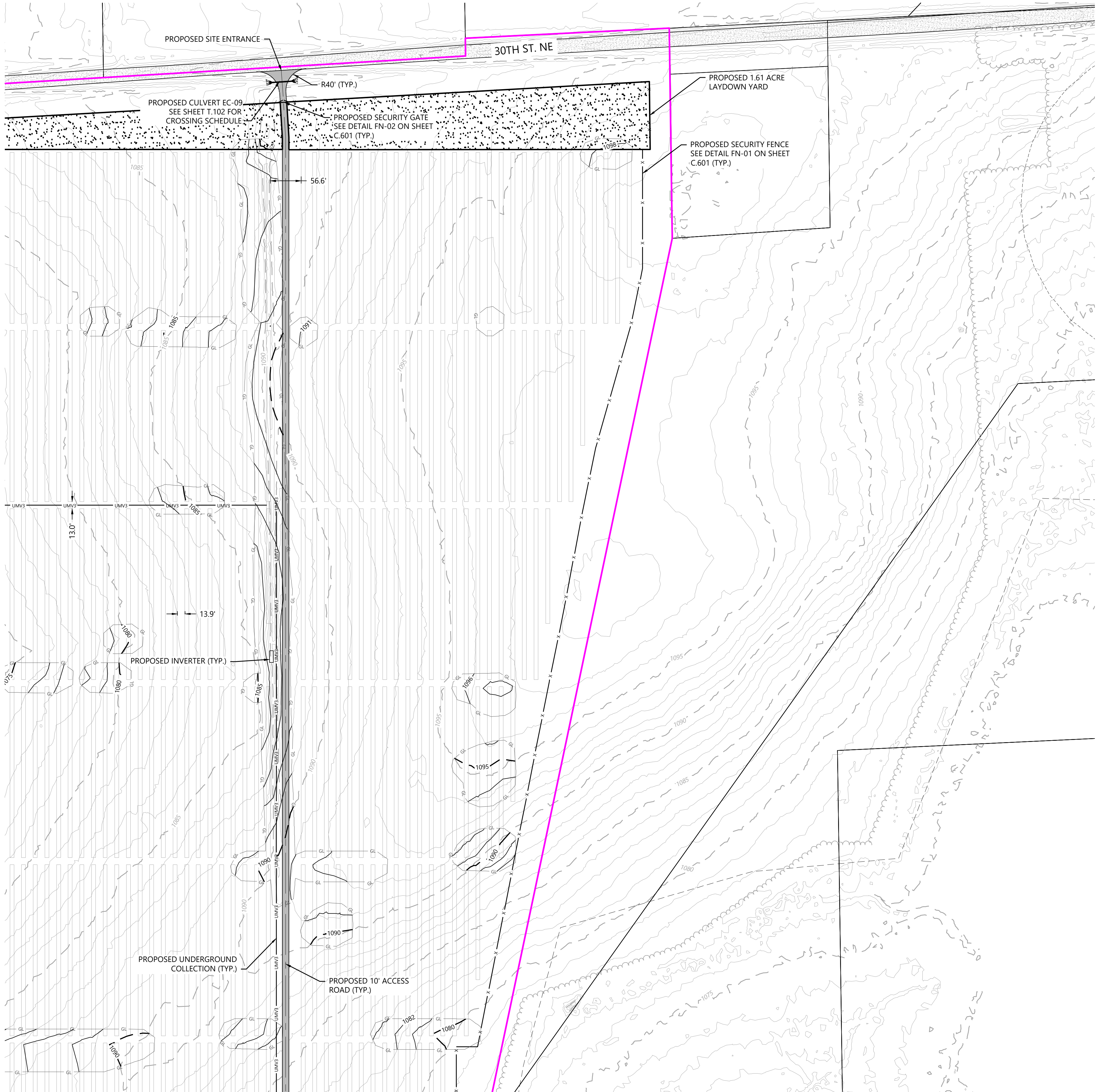
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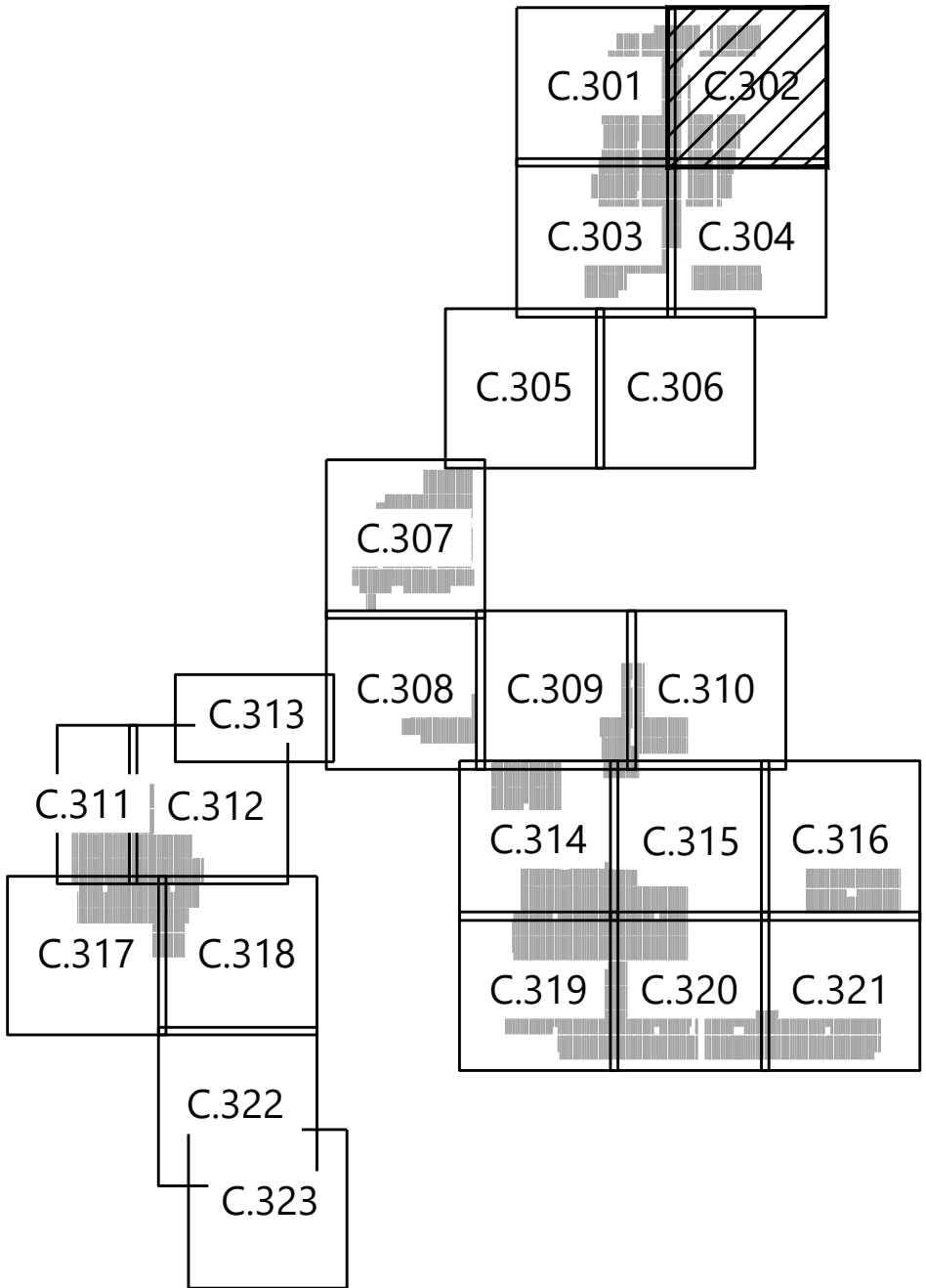


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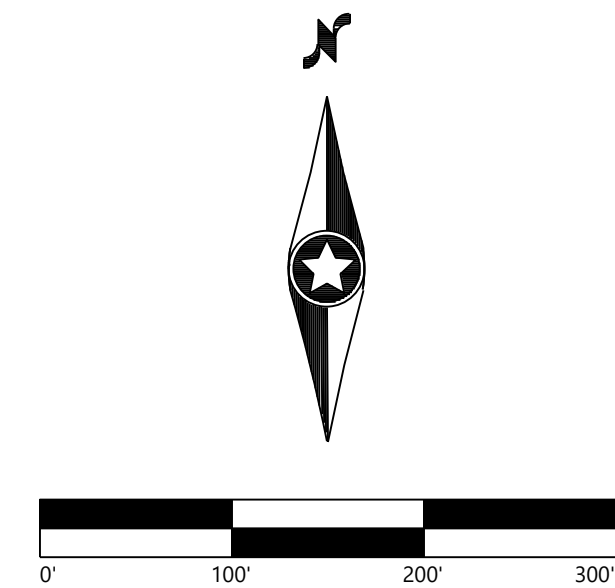
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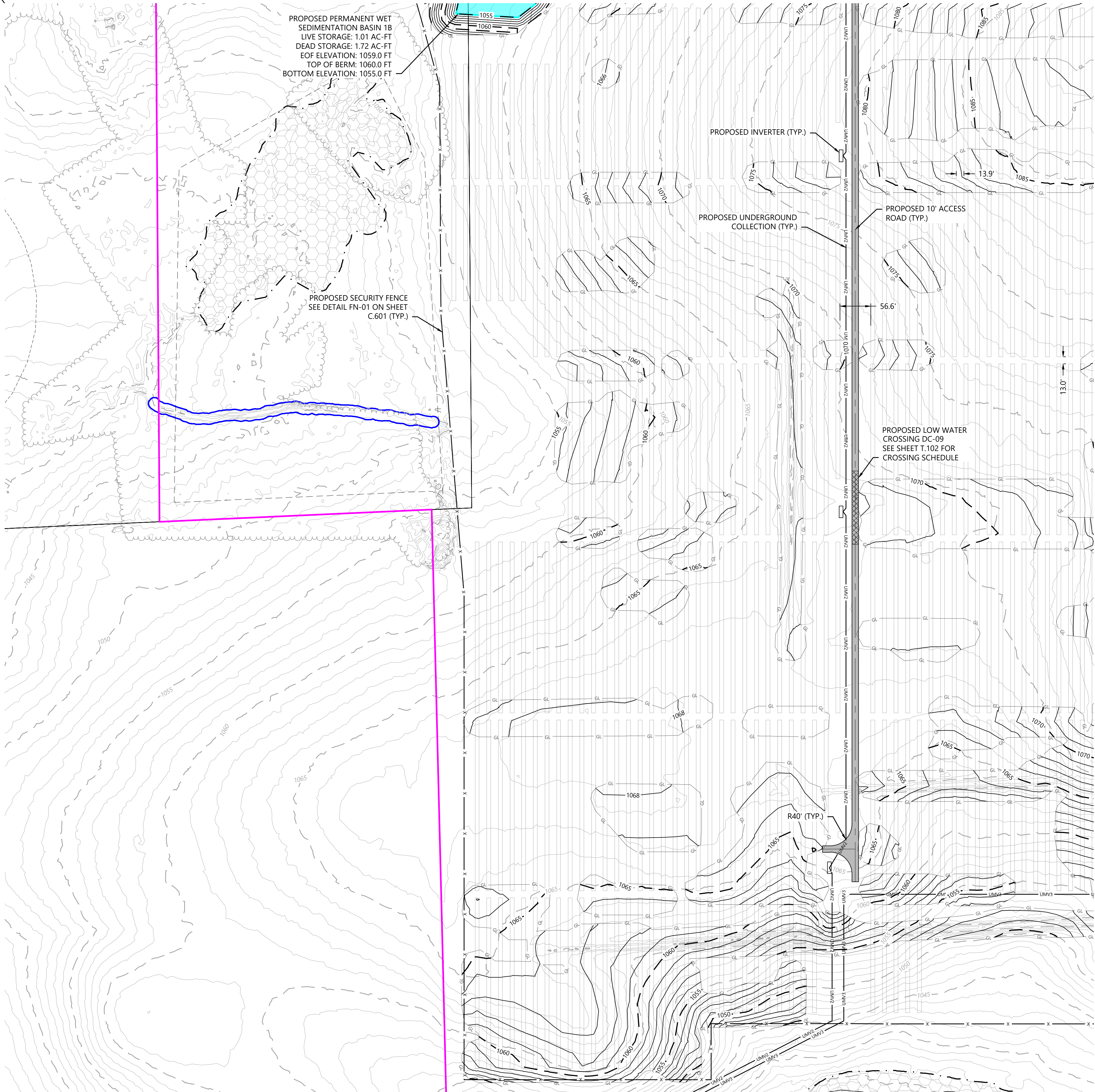
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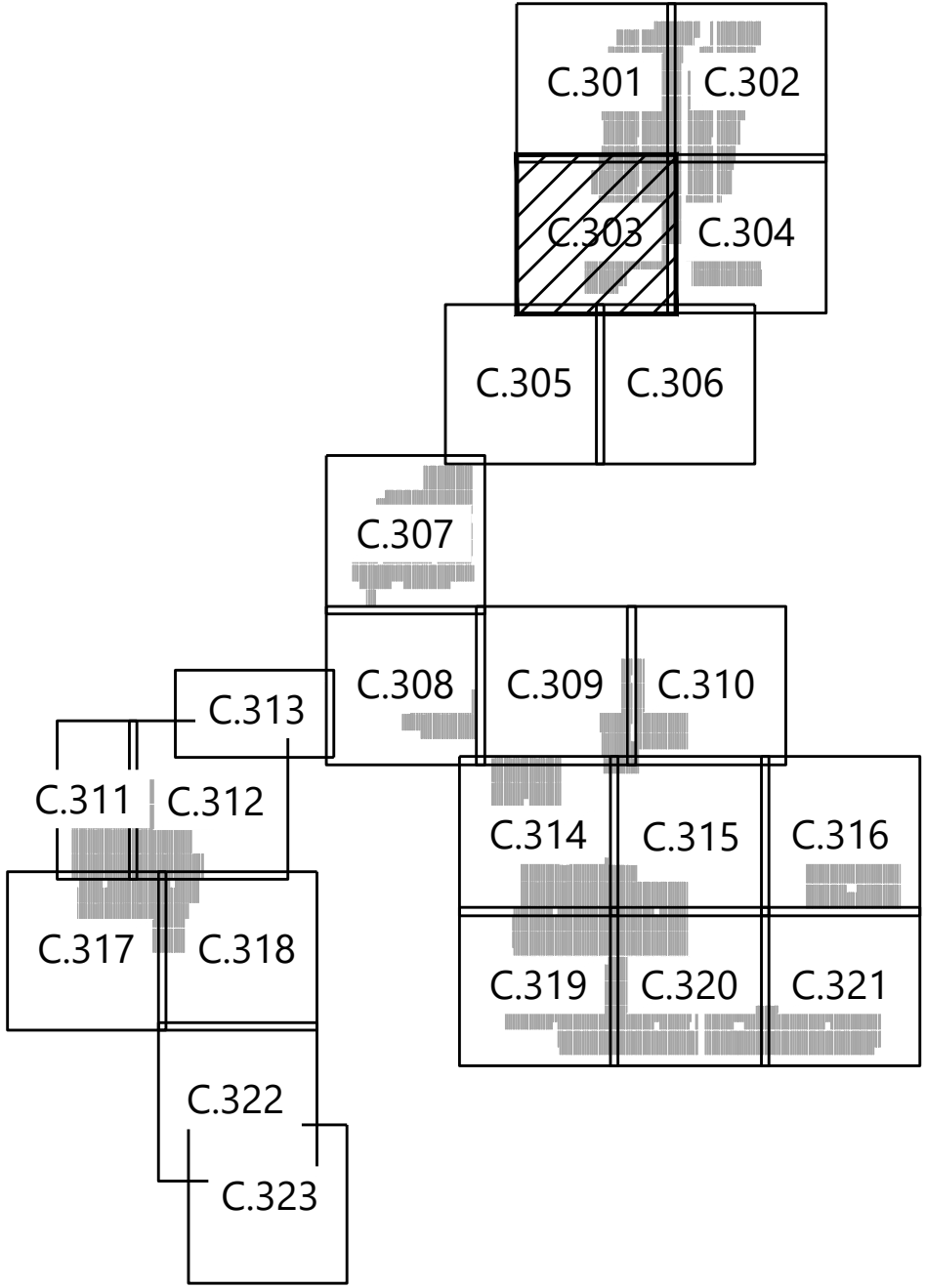


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Benton County, Minnesota

Civil Site Plan

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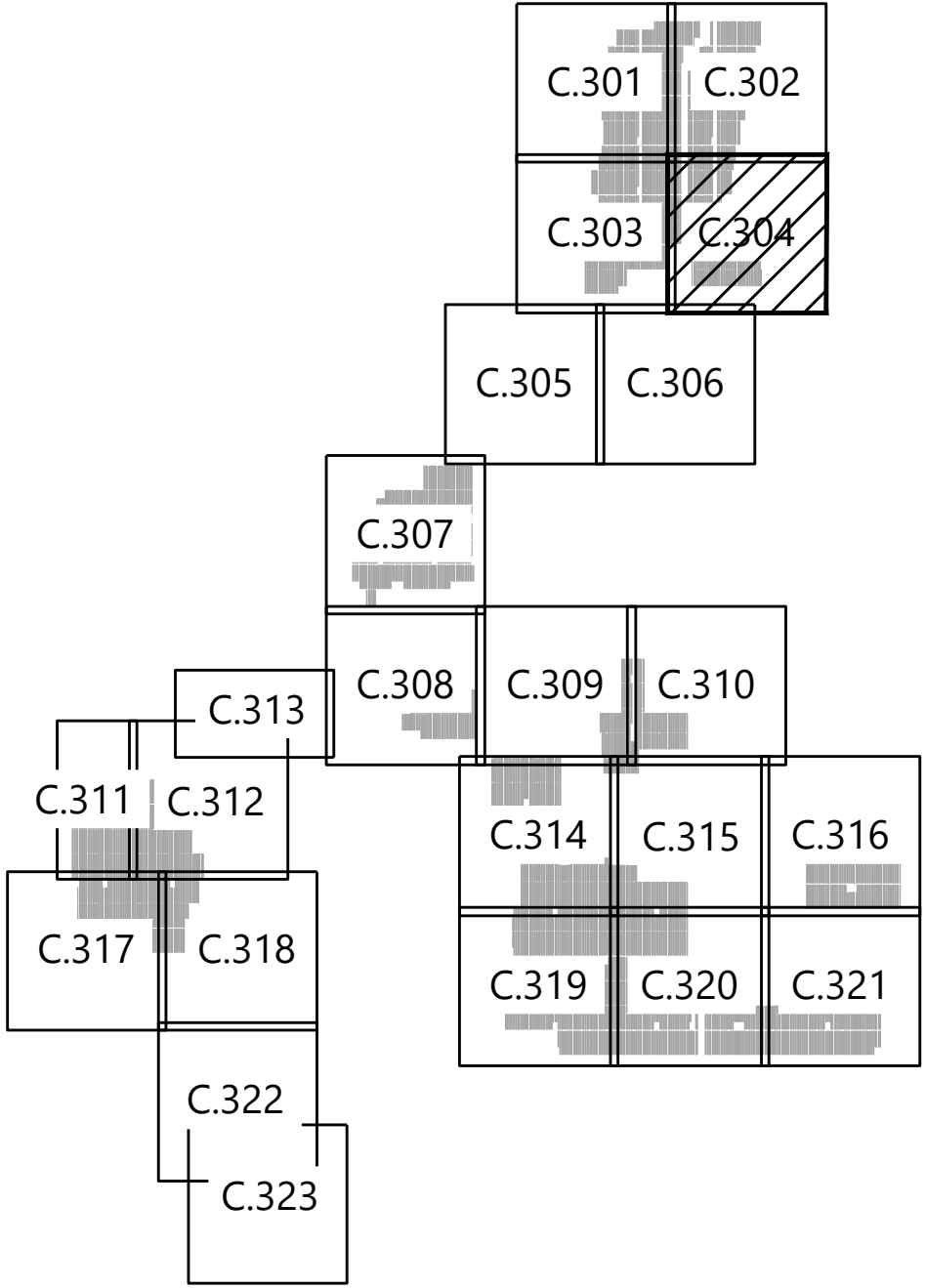


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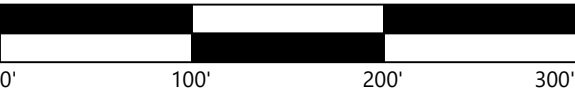
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Benton County, Minnesota

Civil Site Plan

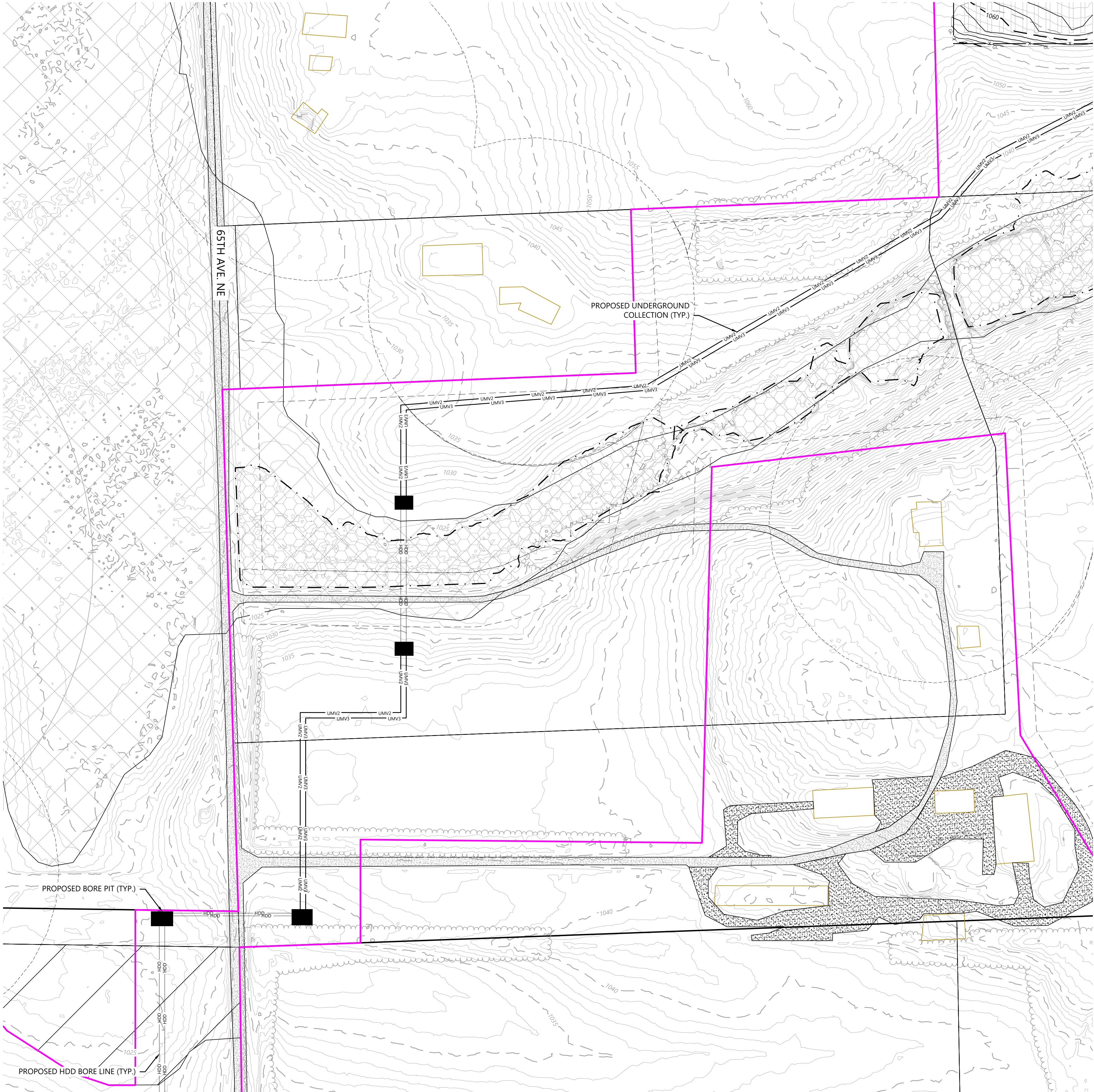
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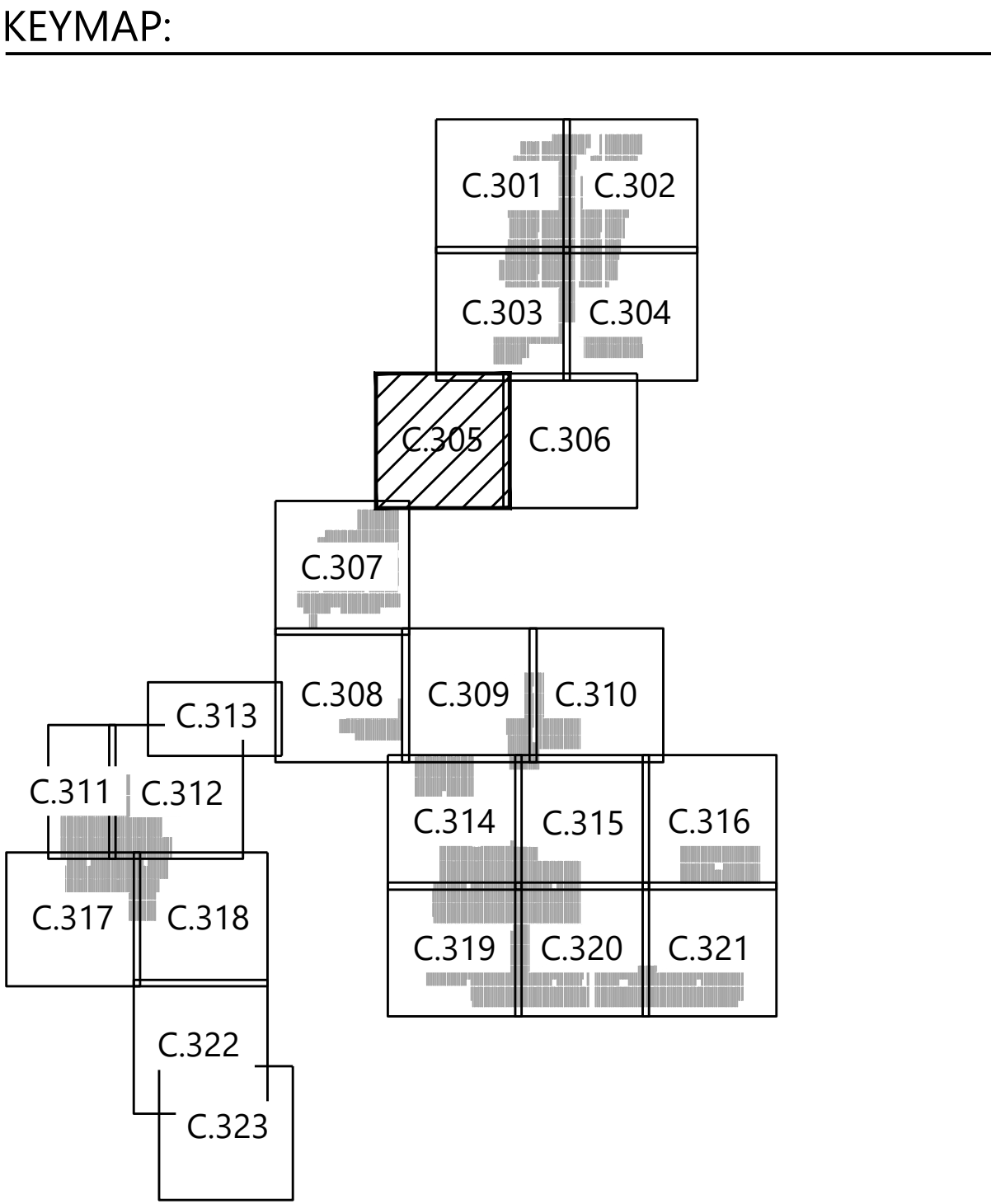
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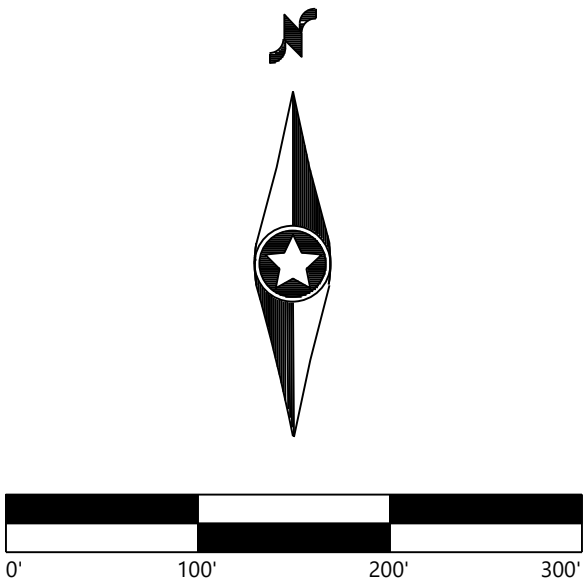
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**Benton Solar Project**  
Benton County, Minnesota

Civil Site Plan

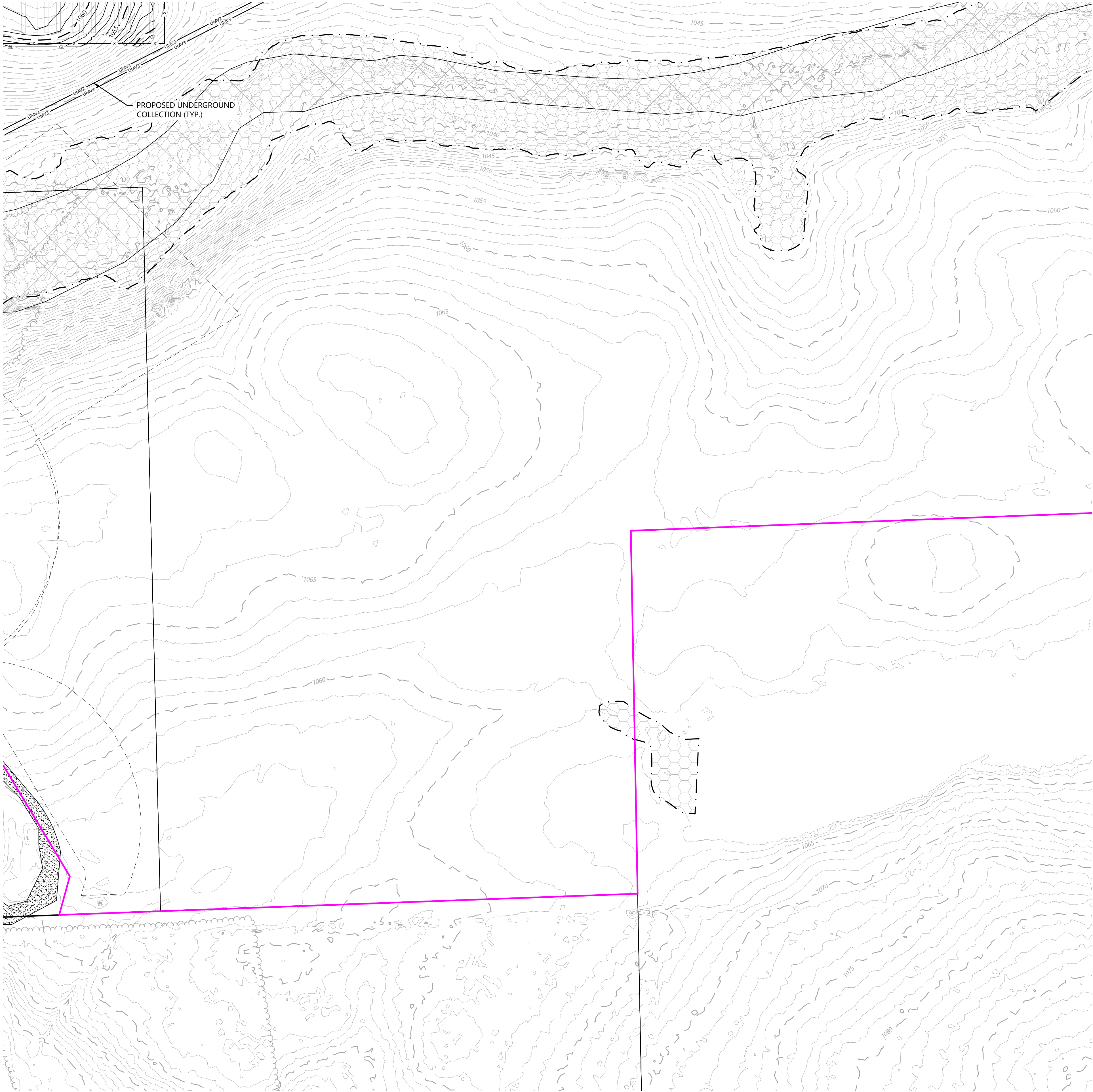
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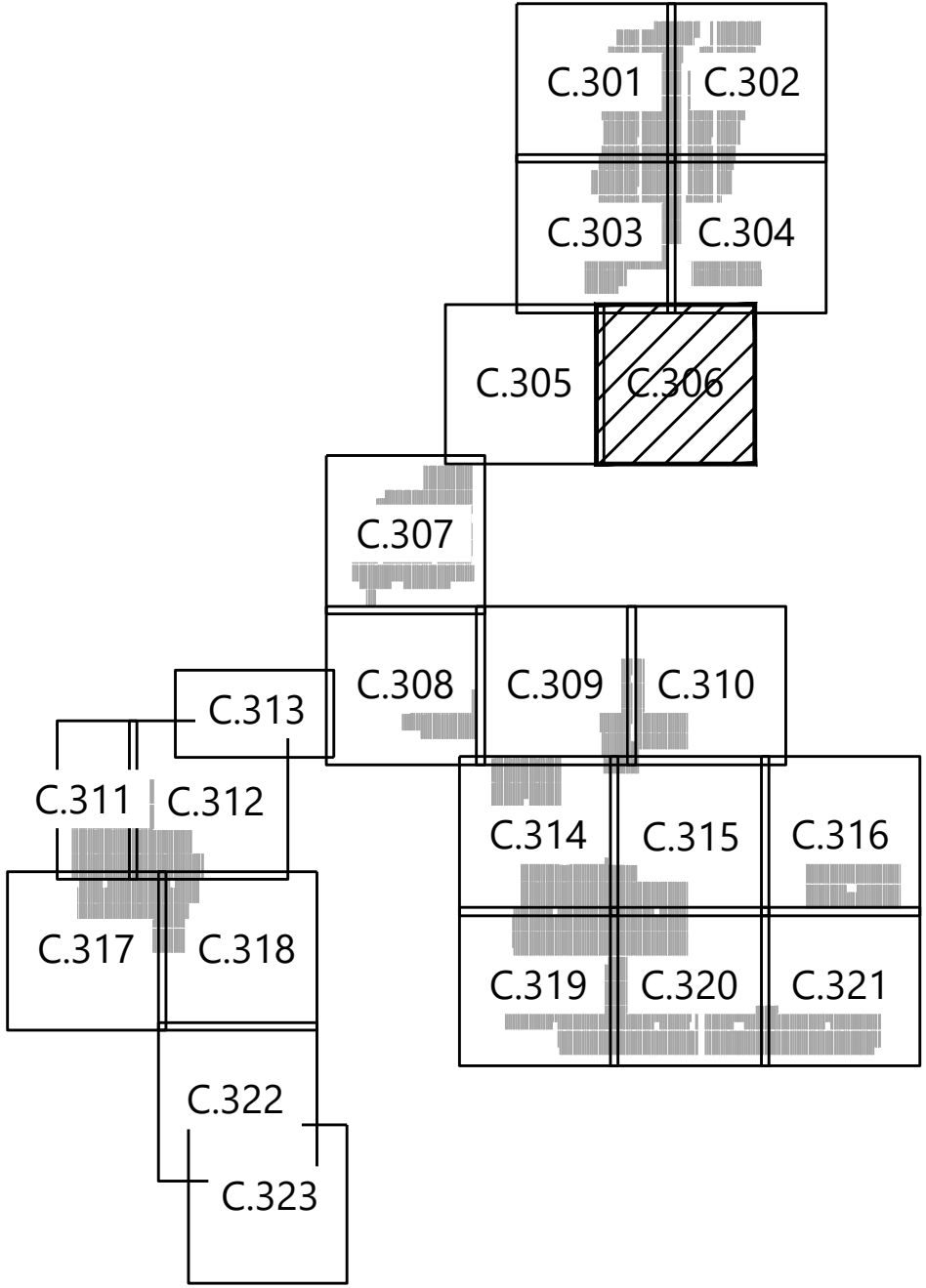


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- LEGEND:
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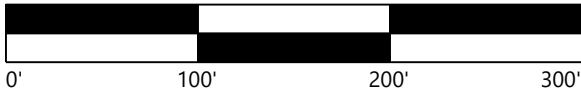
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Benton Solar  
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Benton County, Minnesota

Civil Site Plan

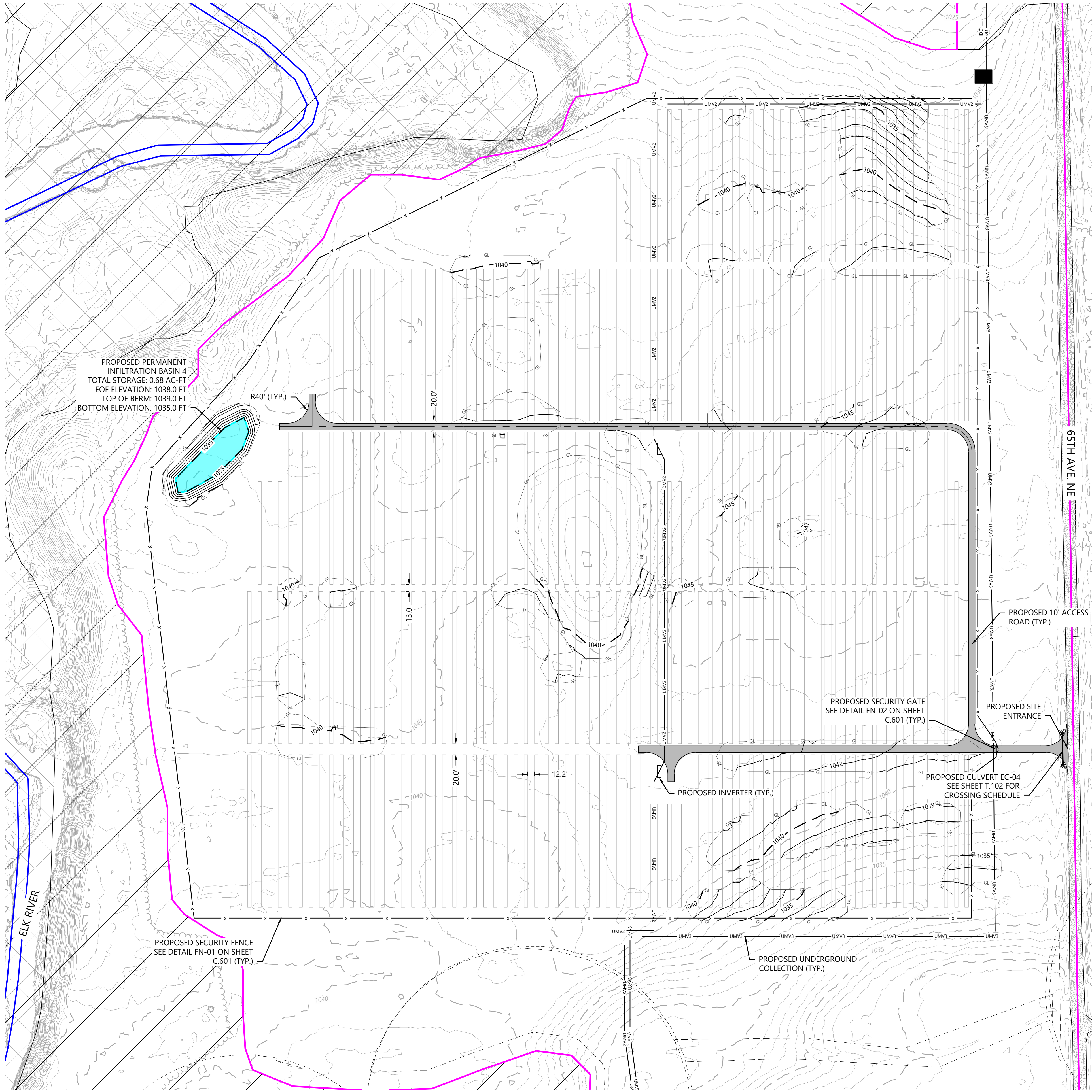
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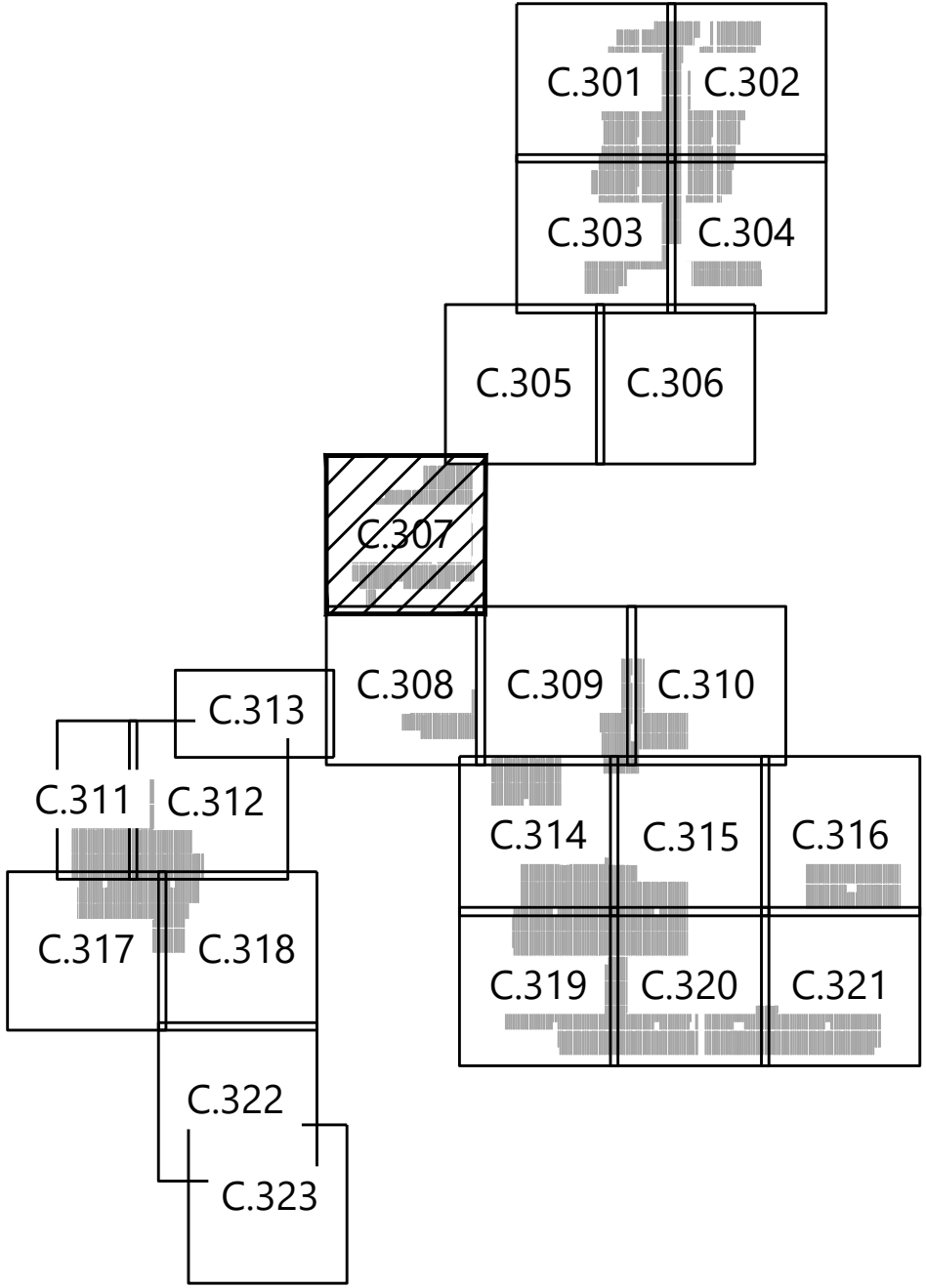


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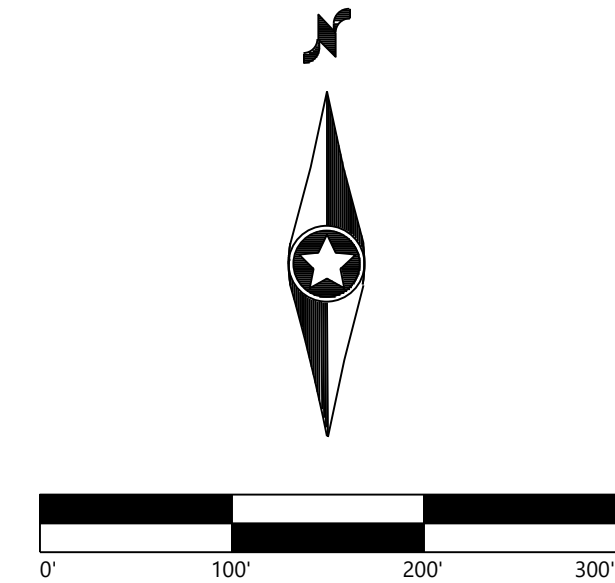


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**Benton Solar  
Project**

Benton County, Minnesota

Civil Site Plan

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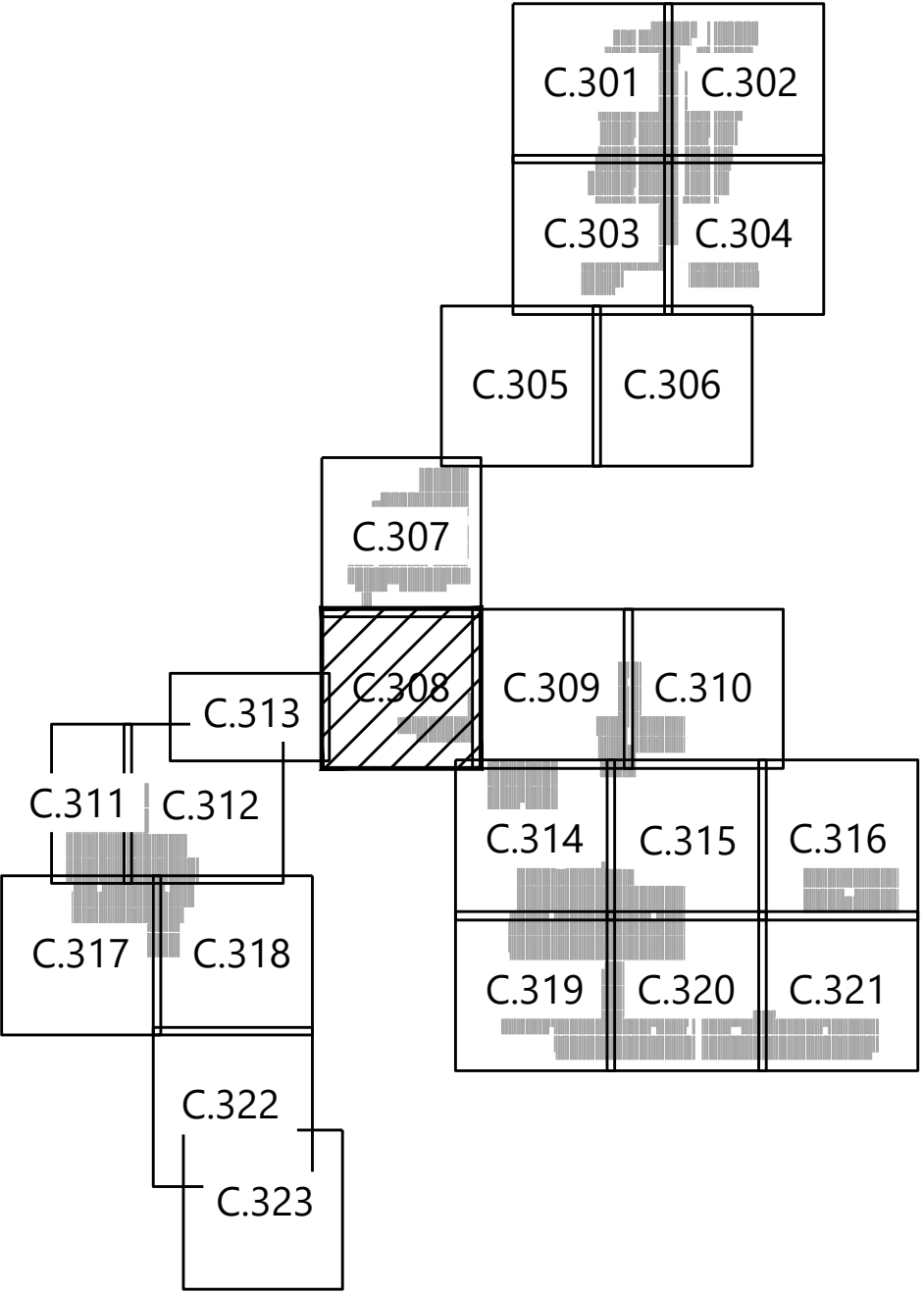
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  - PROPOSED INDEX CONTOUR
  - PROPOSED GRADING LIMITS
  - PROPOSED INTERVAL CONTOUR
  - PROPOSED CULVERT
  - PROPOSED PERMANENT BASIN
  - PROPOSED RIPRAP
  - FLOOD HAZARD ZONE
  - WET ROAD SEGMENT
  - PROPOSED BORE PIT
  - PROPOSED JUNCTION BOX
  - PROPOSED SECURITY GATE
  - PROPOSED BESS INVERTER
  - PROPOSED BESS FUTURE AUGMENTATION INVERTER
  - PROPOSED BESS BATTERY
  - PROPOSED BESS FUTURE AUGMENTATION BATTERY

KEYMAP:



**Westwood**

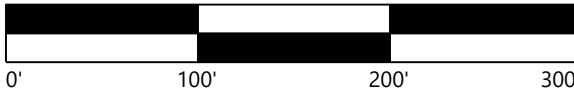
Phone (214) 473-4640 2901 Dallas Parkway, Suite 400  
Toll Free (888) 937-5150 Plano, TX 75093  
westwoodps.com  
Westwood Professional Services, Inc.

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**Benton Solar, LLC**

700 Universe Blvd,  
Juno Beach, FL 33408

| REVISIONS: |            |                       |
|------------|------------|-----------------------|
| #          | DATE       | COMMENT               |
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Benton County, Minnesota

Civil Site Plan

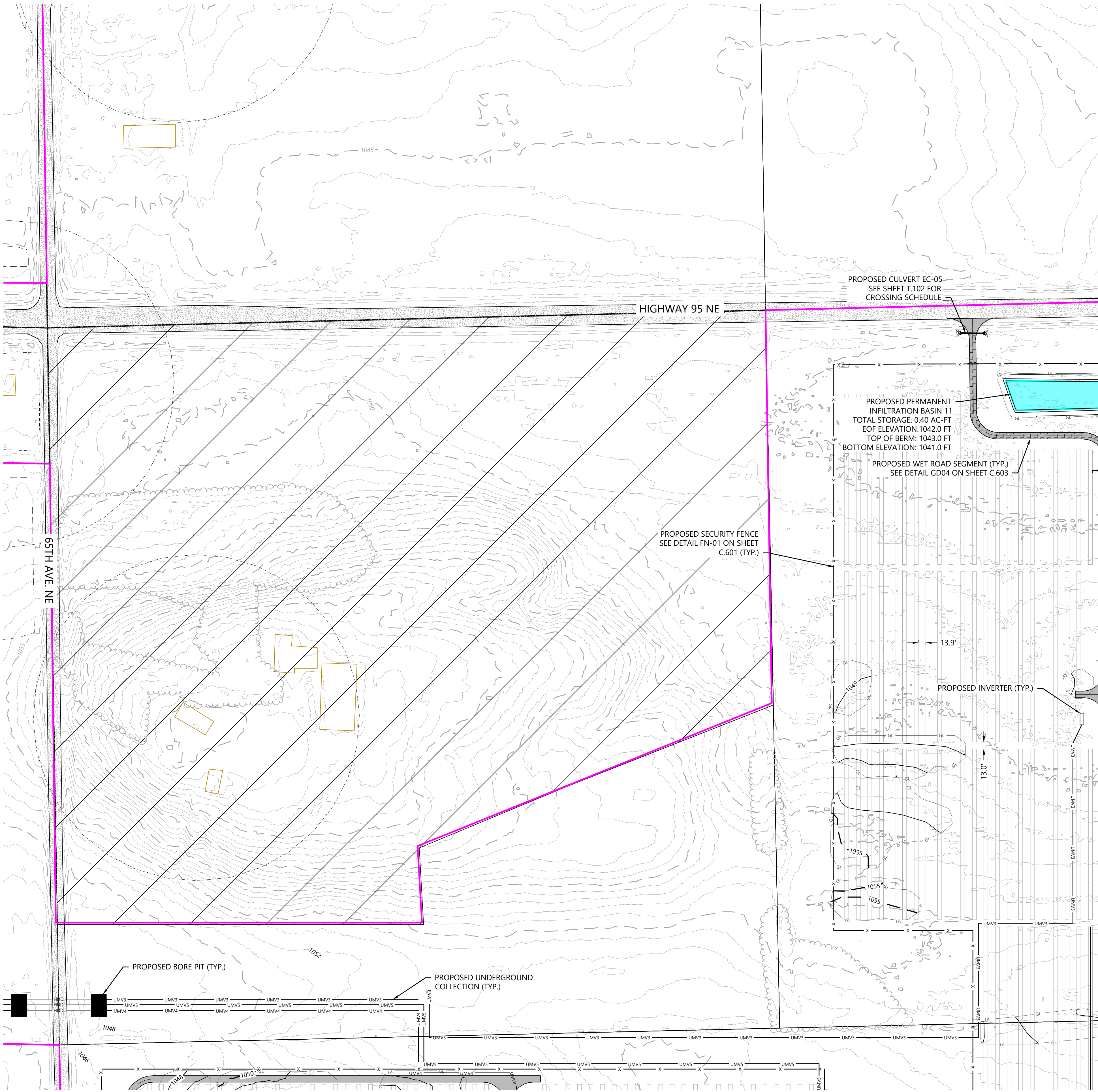
PRELIMINARY  
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DATE: 06/12/2024

SHEET: C.308



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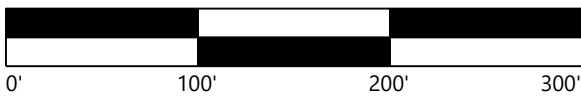


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Benton Solar  
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Benton County, Minnesota

Civil Site Plan

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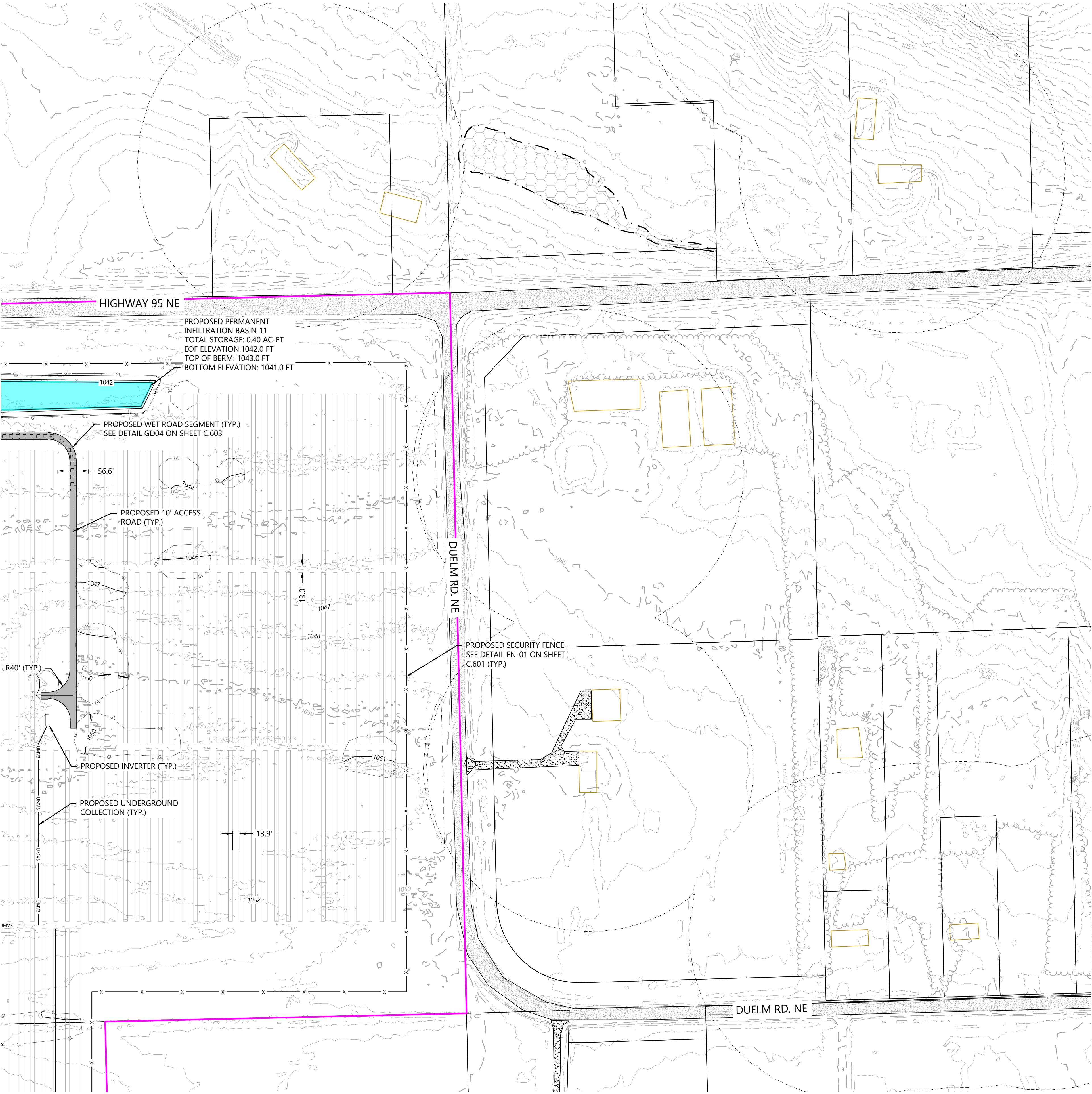
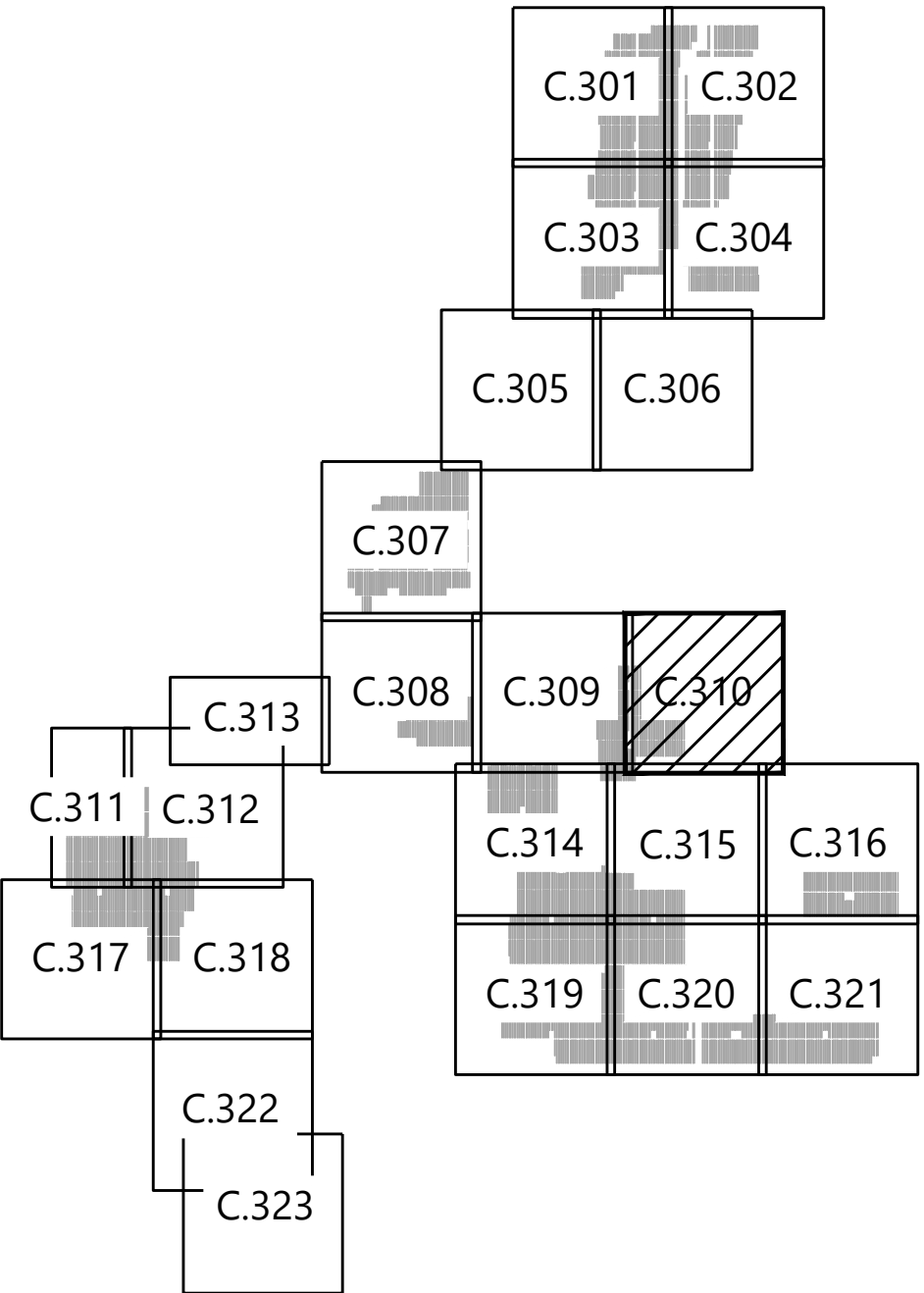
DATE: 06/12/2024

SHEET: C.310

LEGEND:

- PROJECT BOUNDARY
- SITE BOUNDARY
- PARCEL LINES
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. STRUCTURE
- EX. OVERHEAD POWER
- EX. WETLAND
- EX. WATER EDGE LINE
- EX. TREELINE
- PROPOSED RESIDENTIAL SETBACK
- PROPOSED MODULE EXCLUSION AREA
- PROPOSED LANDOWNER EXCLUSION AREA
- PROPOSED RIGHT-OF-WAY LINES
- PROPOSED SOLAR ARRAY
- PROPOSED FACILITIES
- PROPOSED TRANSMISSION LINE
- PROPOSED ACCESS ROAD
- PROPOSED LOW WATER CROSSING
- PROPOSED SECURITY FENCE
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- PROPOSED BESS FUTURE AUGMENTATION INVERTER
- PROPOSED BESS BATTERY
- PROPOSED BESS FUTURE AUGMENTATION BATTERY

KEYMAP:





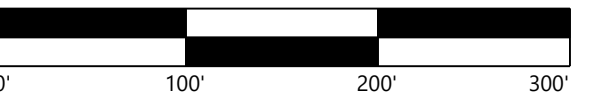
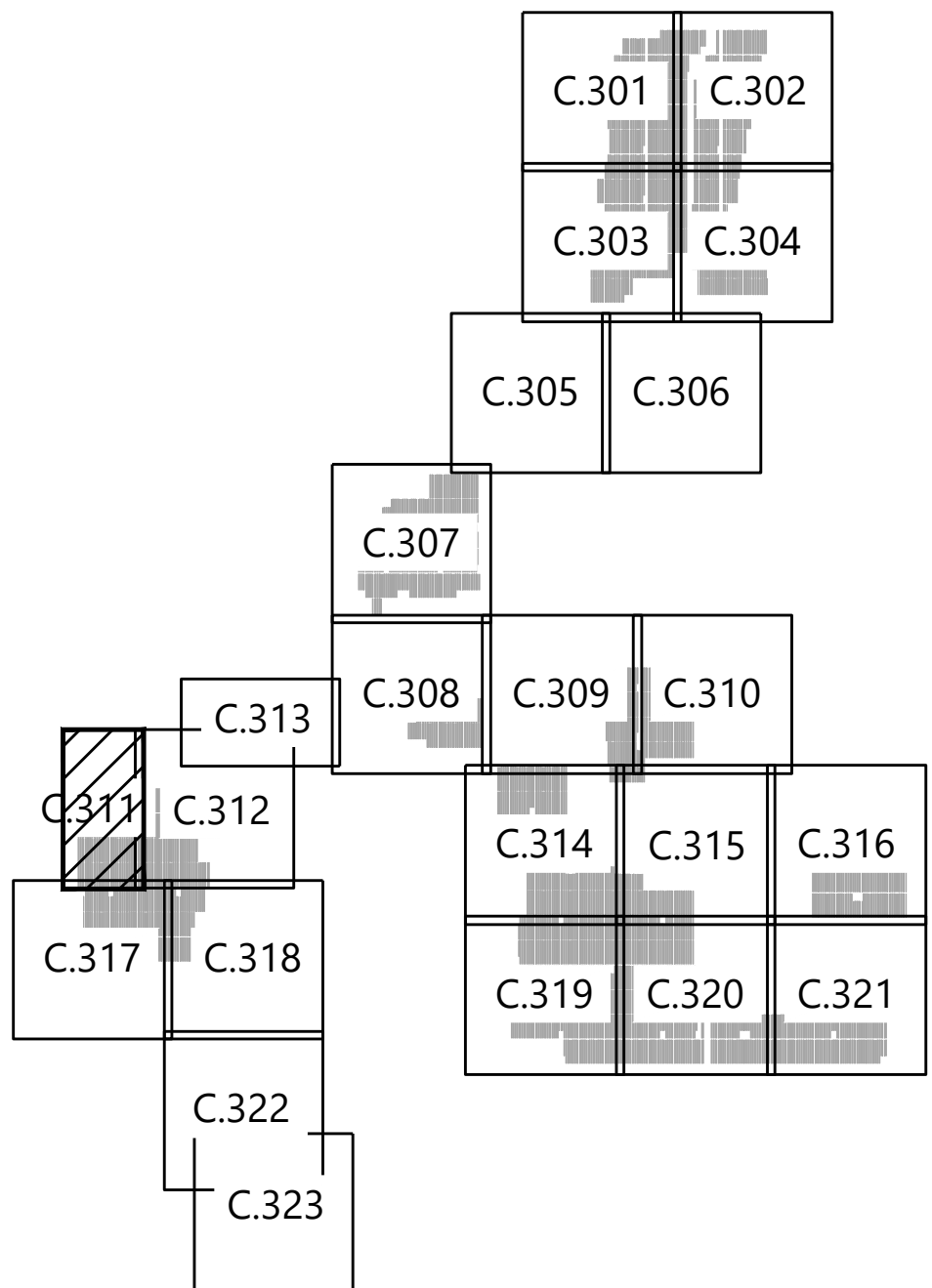
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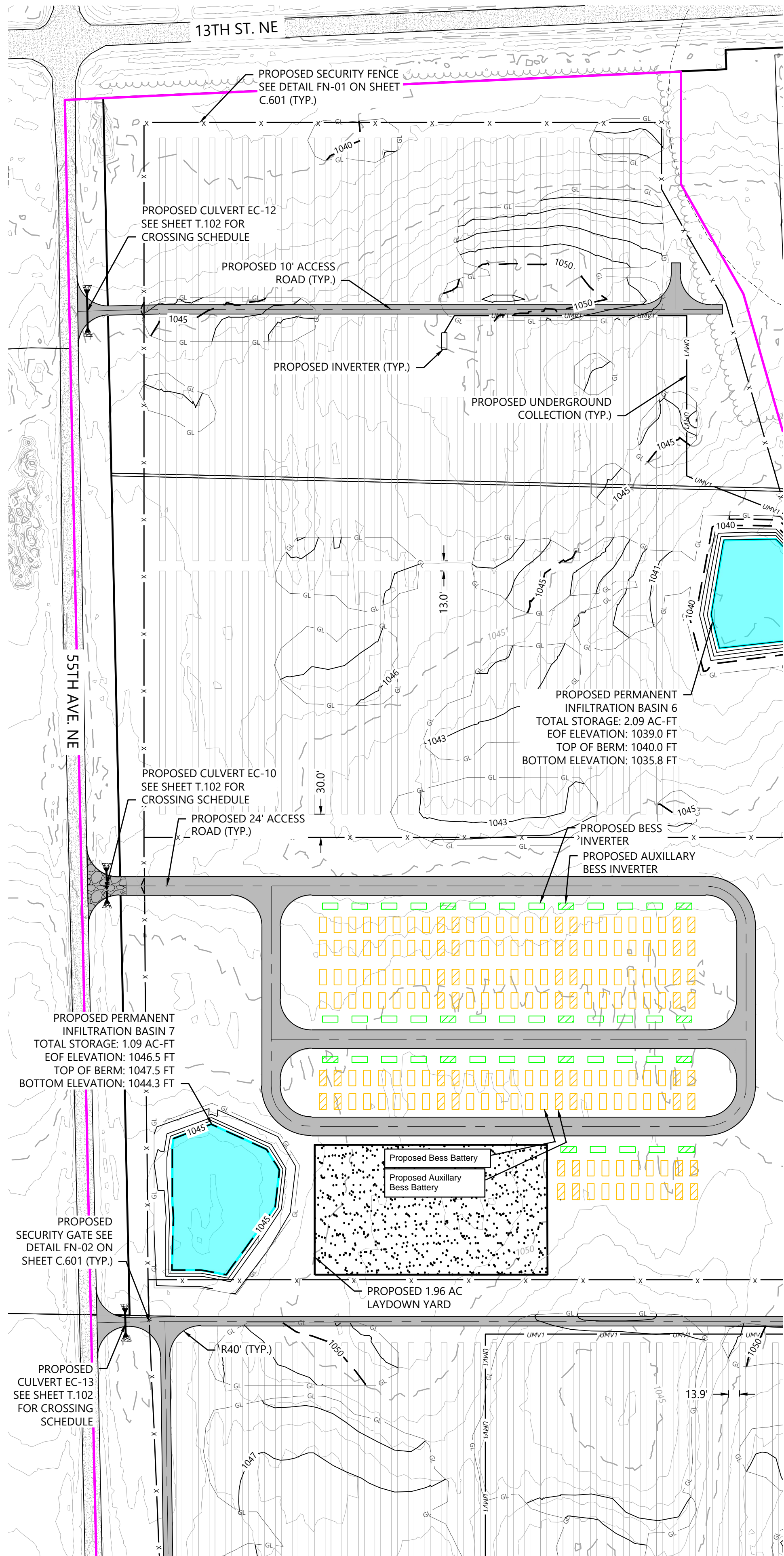


# Benton County, Minnesota

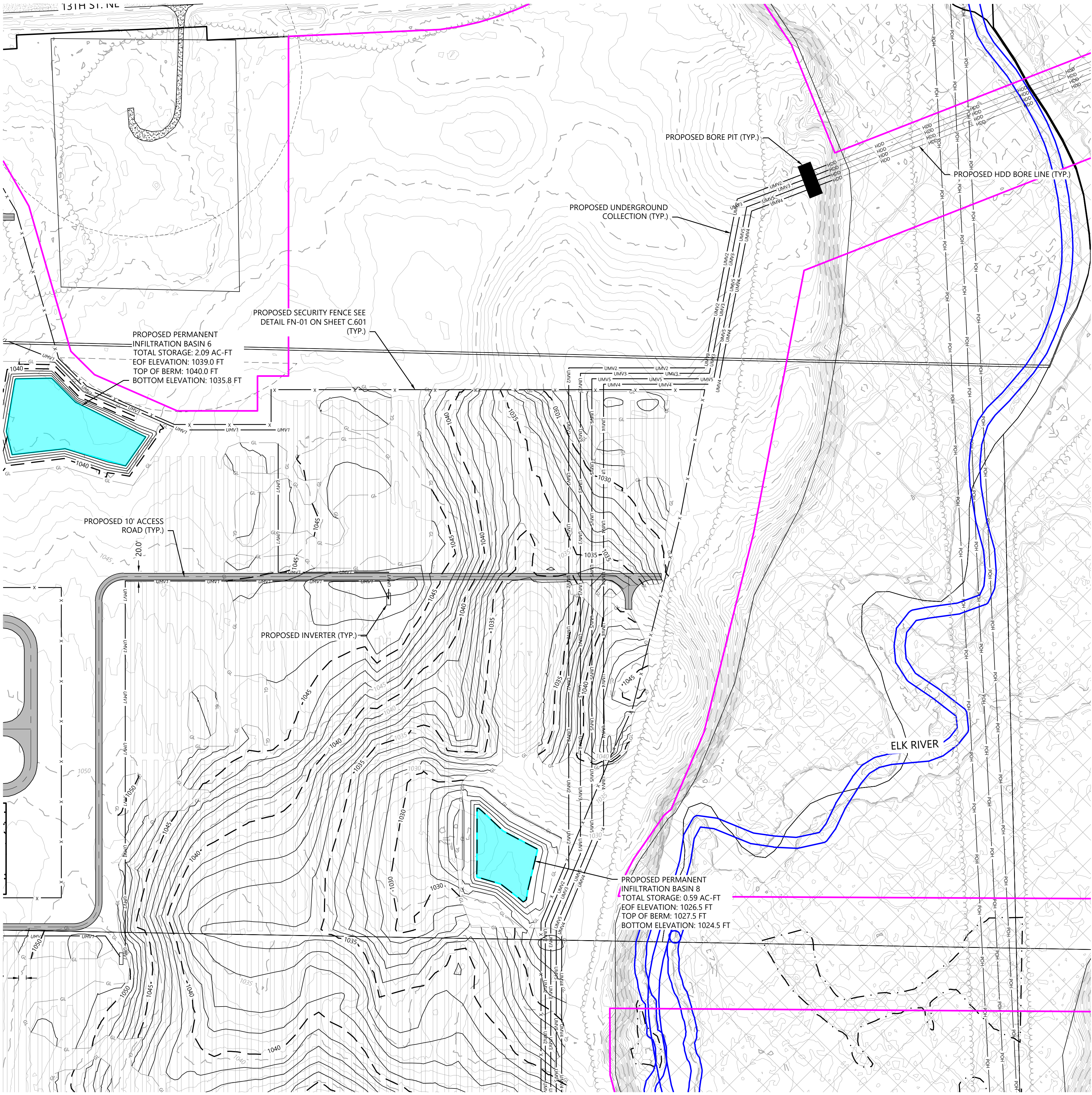
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DATE: 06/12/2024

SHEET: C.311

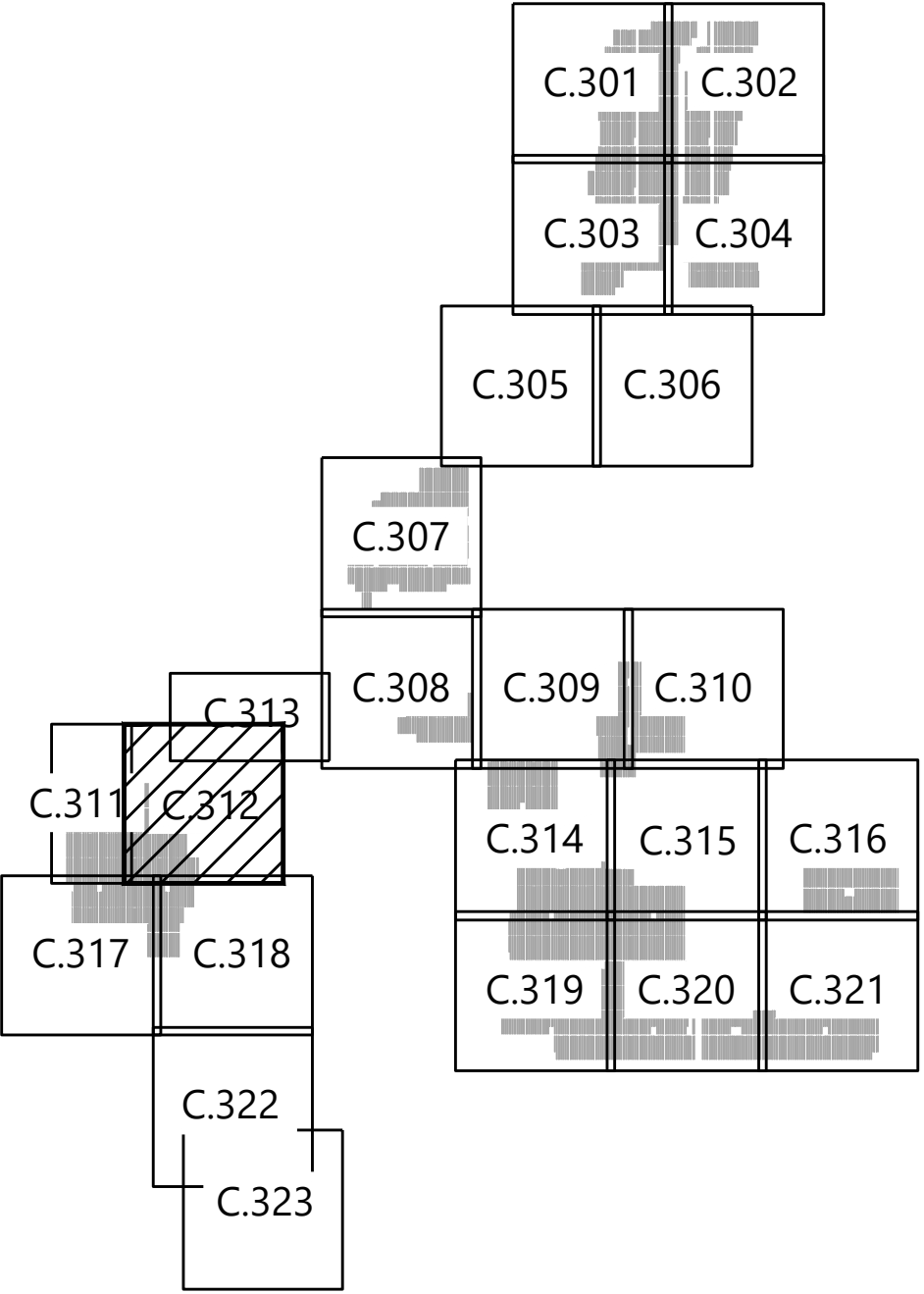






- LEGEND:
- PROJECT BOUNDARY
  - SITE BOUNDARY
  - PARCEL LINES
  - EX. INDEX CONTOUR
  - EX. INTERVAL CONTOUR
  - EX. GRAVEL ROAD
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KEYMAP:



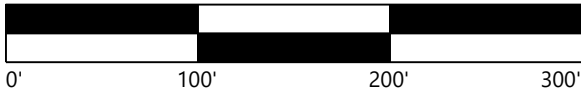
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Project

Benton County, Minnesota

Civil Site Plan

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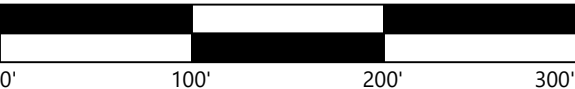
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Benton County, Minnesota

Civil Site Plan

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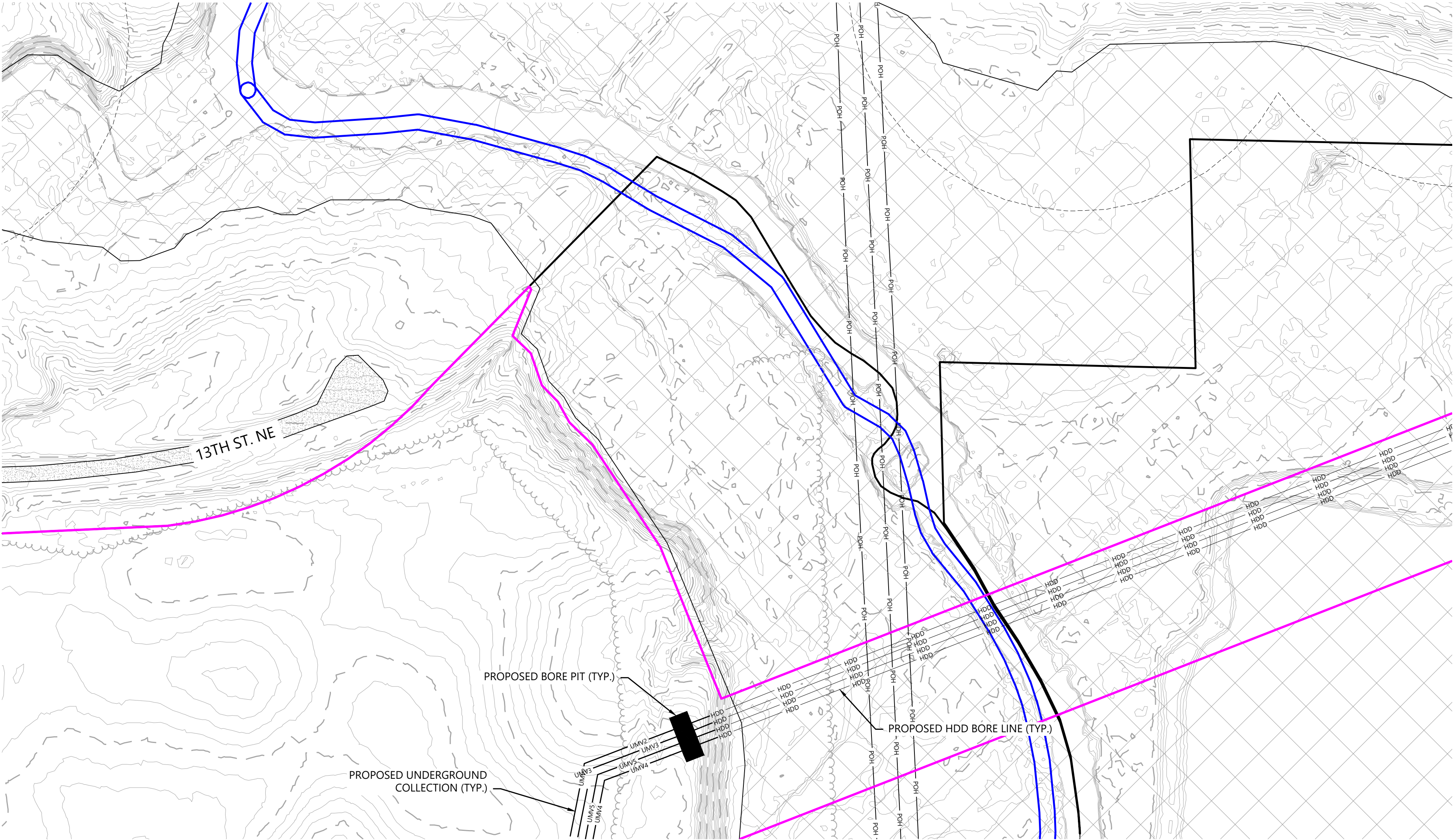
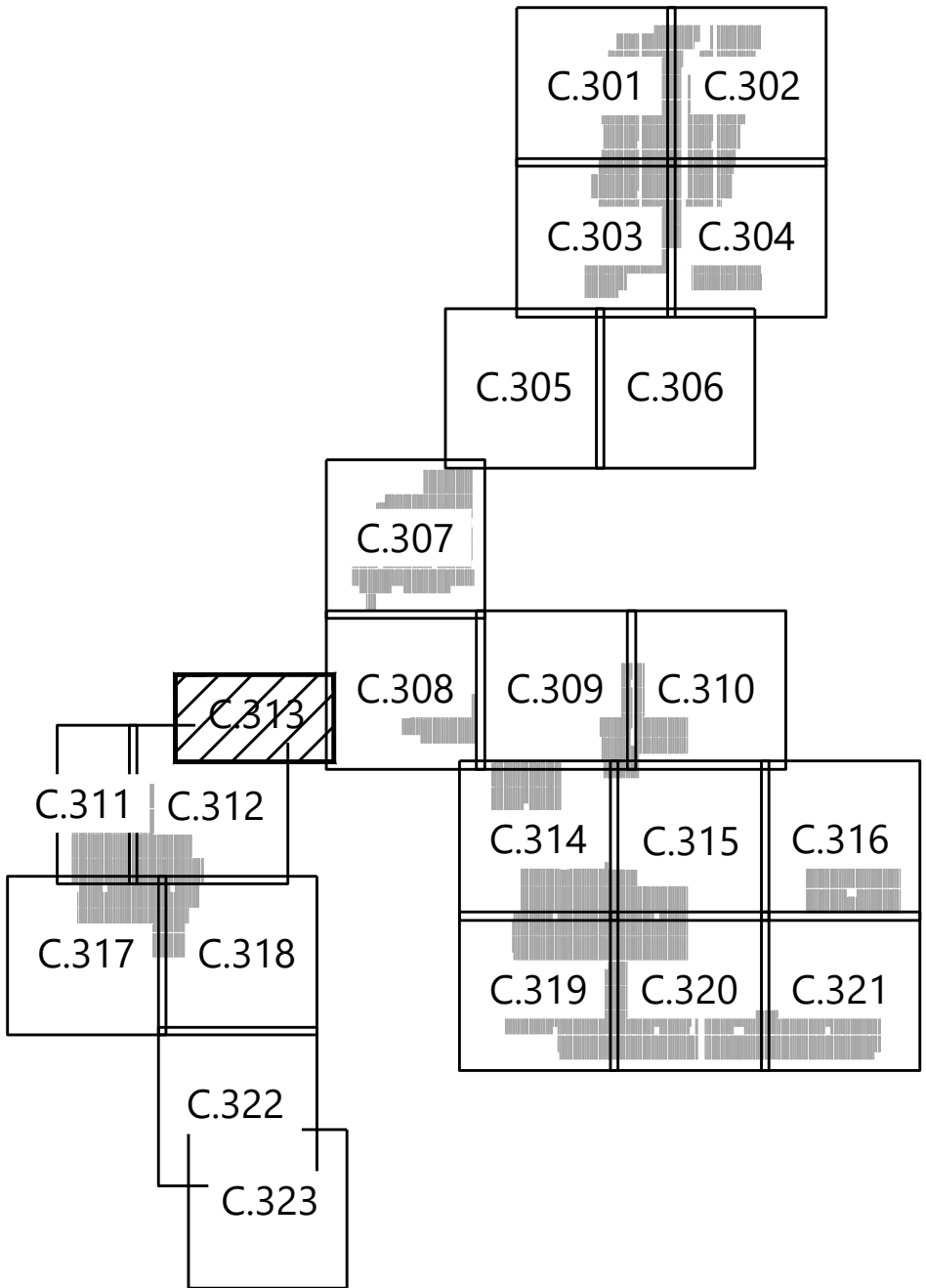
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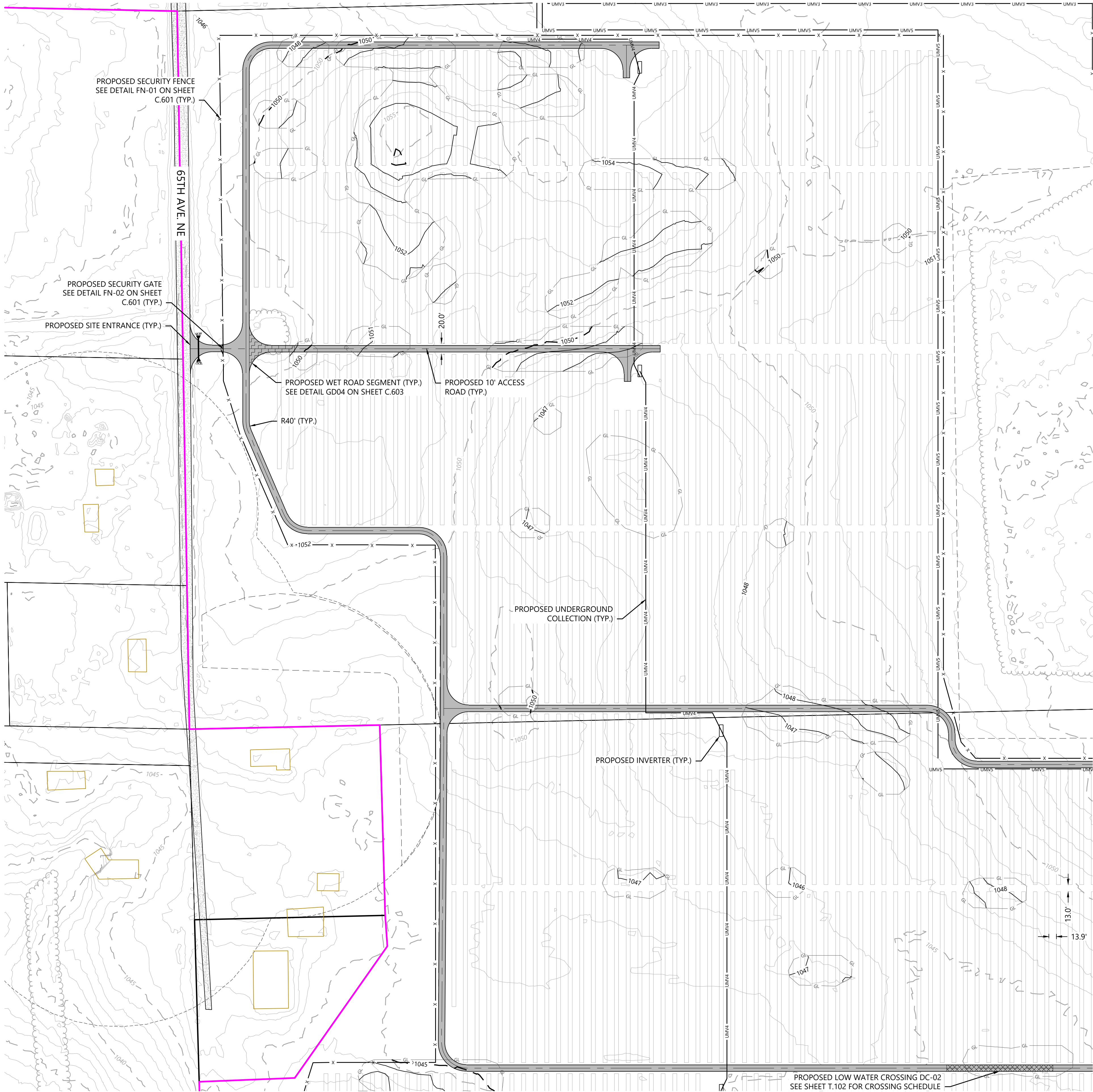
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- PARCEL LINES
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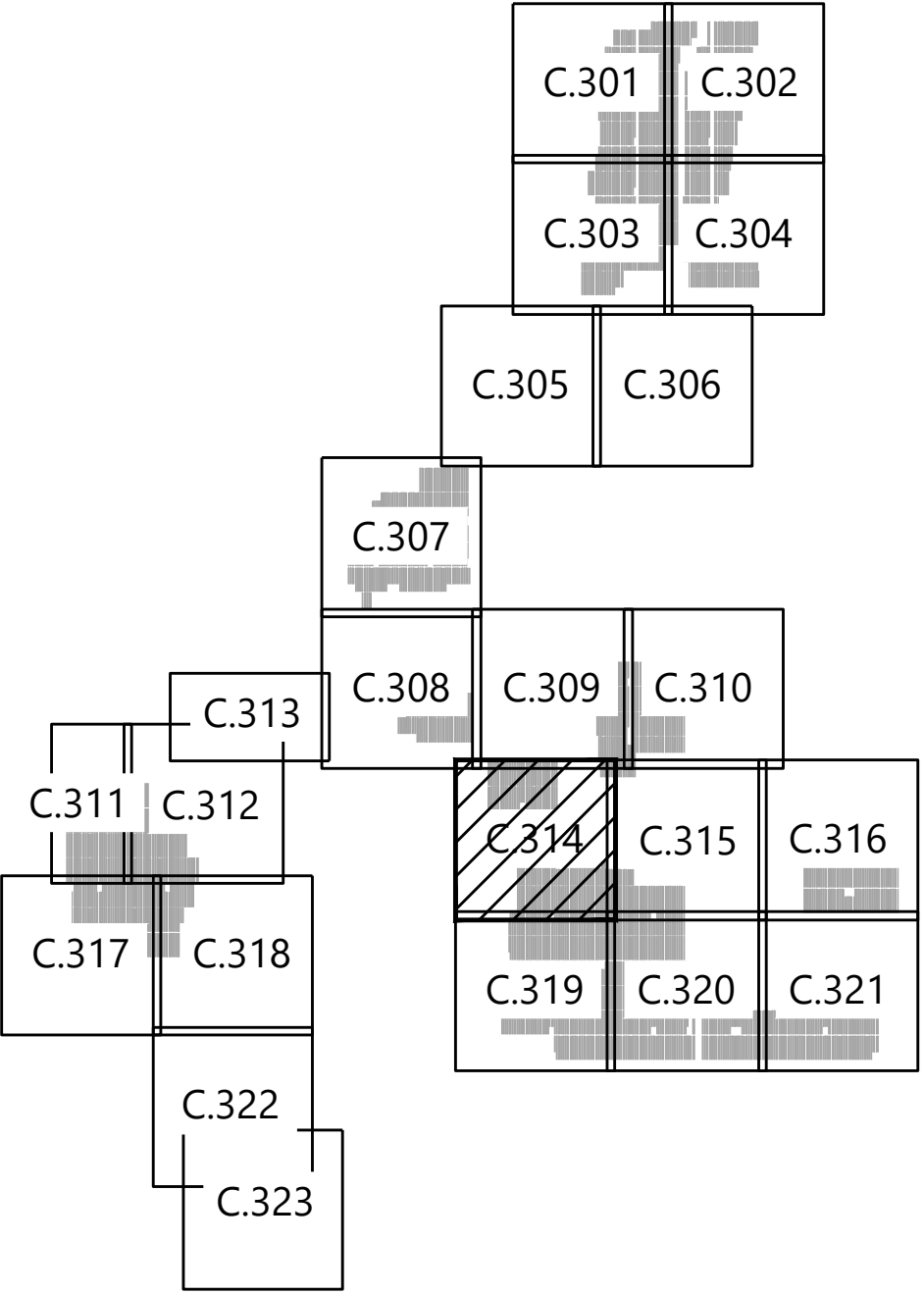


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- LEGEND:
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KEYMAP:



**Westwood**

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Toll Free (888) 937-5150 Plano, TX 75093  
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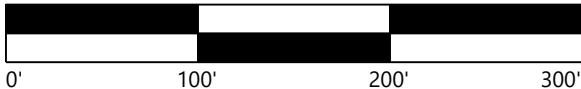
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Benton County, Minnesota

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