

| GENERAL NOTES:   | CIVIL NOTES:  | no. date by ckd descriptio   |
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| 1. THE PROJECT SITE IS OWNED BY ENVIRONMENTAL PROPERTIES MANAGEMENT, LLC. ADDRESS: 100 NORTH HIGHWAY 74, GUTHRIE, OK 73044,  | 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.   | A 08/22/22 MRC JRH ISSUED FOR  |
| <ul> <li>PHONE: 405-642-5152.</li> <li>2. THE PROJECT ENGINEER AND CONTRACTOR IS BURNS &amp; MCDONNELL ENGINEERING COMPANY, INC. ADDRESS: 9400 WARD PARKWAY, KANSAS CITY, MO 64114, PHONE: 816-333-9400.</li> </ul>  | 2. PRIOR TO FILL MATERIAL PROCUREMENT, SUBCONTRACTOR SHALL SUBMIT TO CONTRACTOR DOCUMENTATION DEMONSTRATING ALL IMPORTED<br>FILL MATERIAL IS CLEAN (NOT CONTAMINATED) AND SUITABLE FOR USE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS, AND   | PRELIMINARY I  |
| <ol> <li>THE SUBCONTRACTOR SHALL COORDINATE ACCESS DURING CONSTRUCTION WITH CONTRACTOR, OWNER AND ADJACENT PROPERTY<br/>OWNERS. TRAFFIC MANAGEMENT SHALL BE SUBJECT TO CONTRACTOR'S APPROVAL.</li> </ol>   | PROJECT SPECIFICATIONS. 3. SUBCONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN PRE-CONSTRUCTION CONDITIONS. TREES SPECIFIED FOR REMOVAL SHALL NOT BE REPLACED.   |  |
| 4. THE LOCATIONS OF UTILITIES SHOWN HAVE BEEN DETERMINED FROM AVAILABLE INFORMATION. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE.   | <ol> <li>SUBCONTRACTOR SHALL PROTECT THE WORK AREAS WITH APPROPRIATE FENCING, BARRICADES, AND SIGNAGE.</li> </ol>   |  |
| 5. THE HORIZONTAL AND VERTICAL LOCATING OF ALL EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES SHOWN ON THE PLANS ARE<br>APPROXIMATE AND ARE NOT GUARANTEED. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND LOCATING ALL UTILITIES IN<br>THE PATH OF AND ADJACENT TO THE PROPOSED WORK. PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE SUBCONTRACTOR SHALL CALL<br>OKLAHOMA ONE CALL AT OKIE811 OR 1-800-522-OKIE WITH SUITABLE NOTICE FOR THEIR LOCATING AND MARKING OF PUBLIC UTILITIES. | 5. ALL WORK SHALL BE DONE TO THE LINES, SLOPES, THICKNESS, AND GRADES INDICATED IN THE CONTRACT DRAWINGS. ALL ESTABLISHED<br>MONUMENTS, BENCHMARKS, REFERENCE POINTS, STAKES, AND OTHER CENTRAL POINTS SHALL BE PRESERVED BY THE SUBCONTRACTOR.<br>SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR IN WRITING OF BENCHMARKS, REFERENCE LINES, OR OTHER CONTROL POINTS WHICH MAY<br>HAVE BEEN DISTURBED OR WHICH APPEAR TO BE OFF LINE OR GRADE.   |  |
| <ul> <li>SUBCONTRACTOR SHALL NOTIFY OWNER 48 HOURS IN ADVANCE OF ONE CALL NOTIFICATION. THE SITE IS GENERALLY NOT OCCUPIED.</li> <li>6. THE CONSTRUCTION DRAWINGS REPRESENT THE FINISHED WORK. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND<br/>METHODS OF CONSTRUCTION. SUBCONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIALS, AND TOOLS NECESSARY TO<br/>COMPLETELY PERFORM THE WORK IN A SAFE, EXPEDITIOUS, AND PROFESSIONAL WORKMANLIKE MANNER. SUBCONTRACTOR SHALL</li> </ul>   | 6. DISTURBED AREAS SHALL BE SEEDED, FERTILIZED, AND STABILIZED (WITH VEGETATIVE MULCH) IN ACCORDANCE WITH THE ODOT COMMISSION<br>SPECIFICATIONS. SEED MIXTURE SHALL BE IN ACCORDANCE WITH TABLE 735.1 OF THE ODOT COMMISSION CHAPTER 735. SUBMIT SEED MIXTURE<br>TO CONTRACTOR FOR APPROVAL PRIOR TO APPLICATION. DISTURBED AREAS SHALL HAVE ESTABLISHED 90% VEGETATION COVERAGE TO BE<br>ACCEPTABLE.   |  |
| COORDINATE SCHEDULE OF THE WORK WITH THE OWNER AND CONTRACTOR. SUBCONTRACTOR SHALL INSTALL EQUIPMENT AND MATERIALS   | ACCESS ROAD NOTES   |  |
| PER MANUFACTURER'S RECOMMENDATIONS UNLESS NOTED OTHERWISE. THE SUBCONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR<br>PROPER HANDLING AND INSTALLATION OF EQUIPMENT AND MATERIALS.<br>7. SUBCONTRACTOR SHALL UNDERTAKE ALL NECESSARY MEASURES TO ENSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND   |   |  |
| ADJACENT TO THE SITE. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLAIMS RESULTING FROM HIS/HER ACTIONS AND ACTIVITIES.<br>VISITS TO THE SITE BY OWNER AND CONTRACTOR SHALL NOT RELIEVE THE SUBCONTRACTOR OF SUCH RESPONSIBILITY.   | 2. THE GEOTEXTILE SHALL BE LAID IN THE DIRECTION OF CONSTRUCTION TRAFFIC AND PER MANUFACTURER'S RECOMMENDATIONS. GEOTEXTILE<br>PANELS SHOULD BE OVERLAPPED BOTH SIDE-TO-SIDE AND END-TO-END. OVERLAP SHALL BE PER MANUFACTURER'S SPECIFICATIONS OR A  |  |
| THE SUBCONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR EQUIPMENT, MATERIALS, AND TOOLS THROUGH PROJECT COMPLETION.<br>THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SAFEGUARDING OF THE INSTALLATION AND MATERIALS/EQUIPMENT<br>STORED ON THE SITE TO PREVENT THEFT, VANDALISM, OR DAMAGE. SUBCONTRACTOR SHALL STORE EQUIPMENT, MATERIALS, AND TOOLS IN  | MINIMUM OF 18-INCHES, WHICHEVER IS GREATER. 3. THE FIRST FIVE FEET OF PLACED GEOTEXTILE ON EACH LATERAL ADJACENT TO THE ACCESS ROAD SHALL BE CUT AND LAID AS A SEPARATE SECTION.  |  |
| A SECURE LOCATION (ON OR OFF-SITE).<br>9. SUBCONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE OF THE PROJECT LIMITS UNLESS APPROVED IN ADVANCE BY THE CONTRACTOR.<br>10. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPROPRIATE LICENSES AND TRADE PERMITS REQUIRED TO PERFORM THE   | 4. SOIL, ROCKS, OR PINS APPROVED BY ENGINEER CAN BE USED TO HOLD FABRIC EDGES AND OVERLAPS DOWN UNTIL THE AGGREGATE IS PLACED<br>TO PREVENT IT FROM LIFTING DURING PLACEMENT OF THE FIRST AGGREGATE LIFT. ON CURVES, THE GEOTEXTILE MAY BE FOLDED OR CUT TO<br>CONFORM TO THE CURVE.  |  |
| WORK. SUBCONTRACTOR SHALL PROVIDE CERTIFICATES OF INSURANCE AND OTHER DOCUMENTATION REQUIRED BY JURISDICTIONAL<br>AGENCIES BEFORE PERFORMING THE WORK.   | <ol> <li>THE INITIAL LIFT OF AGGREGATE SHALL BE PLACED, SPREAD AND COMPACTED ON THE GEOTEXTILE FABRIC IN A 6-INCH LIFT. DO NOT OPERATE<br/>EQUIPMENT DIRECTLY ON GEOTEXTILE FABRIC.</li> </ol>  |  |
| 11. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA REQUIREMENTS AND THE CIMARRON ENVIRONMENTAL RESPONSE TRUST<br>SITE-SPECIFIC HEALTH & SAFETY PLAN (BURNS AND MCDONNELL).  | 6. TO THE EXTENT POSSIBLE IN THE FLOODPLAIN (WAA), MAINTAIN EXISTING DRAINAGE PATTERNS WITH ROAD CONSTRUCTION AND GRADING WHILE<br>PROVIDING POSITIVE DRAINAGE OF ROADS. SPOIL EXCESS MATERIAL ON EITHER SIDE OF NEW ROAD AND TAPER TO EXISTING GRADE WHERE   |  |
| 12. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.  | POSSIBLE TO MAINTAIN DRAINAGE, OR SPOIL EXCESS MATERIAL IN THE AREA INDICATED ON THE DRAWINGS, OR AS APPROVED BY THE CONTRACTOR, AND RESTORE IN ACCORDANCE WITH NOTES ABOVE.  |  |
| 13. THESE NOTES AND OTHER DRAWING NOTES CONTAINED HEREWITH ARE PROVIDED TO MEET SPECIFIC REQUIREMENTS AND TO SUPPLEMENT<br>THE CONTRACT DOCUMENTS. THESE NOTES NEITHER REPLACE NOR OVERRIDE THE PROVISIONS AND REQUIREMENTS OF THE CONTRACT  | COORDINATION AND COMMUNICATION:   |  |
| DOCUMENTS.<br>14. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY SHOP DRAWINGS PROVIDED BY SUPPLIERS. ALL SHOP DRAWINGS PROVIDED<br>BY OTHERS SHALL BE SUBMITTED TO THE CONTRACTOR FOR REVIEW PRIOR TO THE FABRICATION OF MATERIAL OR THE PURCHASE OF<br>NON-RETURNABLE STOCK. DIMENSIONAL REVIEW IS THE SUBCONTRACTOR'S RESPONSIBILITY.<br>5. UNKNOWN SITUATIONS OR CONDITIONS NOT COVERED IN THE CONTRACT DOCUMENTS MAY ARISE DURING CONSTRUCTION. IT IS THE                               | <ol> <li>SUBCONTRACTOR SHALL APPOINT A PRIMARY CONSTRUCTION SUPERINTENDENT, SUBJECT TO THE APPROVAL OF THE CONTRACTOR AND<br/>OWNER, WHO SHALL BE PRESENT ON THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS AND ACCESSIBLE AT ALL TIMES WHILE<br/>WORK IS IN PROGRESS. WHEN THE SUBCONTRACTOR'S PRIMARY CONSTRUCTION SUPERINTENDENT IS NOT AVAILABLE ON THE CONSTRUCTION<br/>SITE, AN ALTERNATE REPRESENTATIVE SHALL BE PROVIDED. SUBCONTRACTOR SHALL PROVIDE NAMES AND CONTACT INFORMATION OF<br/>REPRESENTATIVES TO THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. IN ACCORDANCE WITH SNM-928.</li> </ol> |  |
| RESPONSIBILITY OF THE SUBCONTRACTOR TO NOTIFY THE CONTRACTOR IF SUCH A CONDITION IS IDENTIFIED. THE PRESENCE OF OWNER, CONTRACTOR, OR THE MANUFACTURER'S REPRESENTATIVE AT THE PROJECT SITE DOES NOT RELIEVE THE SUBCONTRACTOR OF THE RESPONSIBILITY FOR A PROPER INSTALLATION.  | SUBCONTRACTORS ARE PROHIBITED FROM ACCESSING THE SITE UNLESS SPECIFICALLY DESIGNATED CONTRACTOR OR OWNER PERSONNEL ARE PRESENT.   |  |
| 16. ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE SUBCONTRACTOR AND ANY DISCREPANCIES SHALL<br>BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF WORK.  | <ol> <li>SUBCONTRACTOR IS RESPONSIBLE FOR SUBMITTING ALL PRELIMINARY AND UPDATED CONSTRUCTION PROGRESS SCHEDULES, PROCUREMENT<br/>SCHEDULES, SCHEDULE OF SUBMITTALS AND SCHEDULE OF VALUES WITH INPUT AND COMMITMENTS FROM SUBCONTRACTORS AND SUPPLIERS.</li> </ol>   |  |
| 17. ALL WORK SHOWN IS IN APPROXIMATE LOCATIONS. THE SUBCONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF/HERSELF WITH<br>THE EXISTING CONDITIONS BEFORE SUBMITTING HIS/HER BID.  | <ol> <li>CONTRACTOR WILL SCHEDULE AND CONDUCT DAILY SAFETY MEETINGS AND WEEKLY PROGRESS MEETINGS. SUBCONTRACTOR SHALL BE<br/>PREPARED TO DISCUSS CURRENT CONSTRUCTION PROGRESS AND ANY ANTICIPATED FUTURE CHANGES TO SCHEDULE.</li> </ol>   |  |
| 18. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR: 1) PROVIDING POTABLE WATER AND TEMPORARY SANITARY FACILITIES FOR<br>SUBCONTRACTOR'S PERSONNEL, 2) FURNISH, INSTALL, AND MAINTAIN TEMPORARY UTILITIES FOR ADEQUATE CONSTRUCTION, SAFETY, AND<br>SECURITY, 3) MODIFY, RELOCATE, AND EXTEND SYSTEMS AS WORK PROGRESSES, REPAIR DAMAGE CAUSED BY INSTALLATION OR USE OF  | <ol> <li>THE SUBCONTRACTOR SHALL COORDINATE ACCESS DURING CONSTRUCTION WITH CONTRACTOR, OWNER, AND ADJACENT SITE PROPERTY<br/>OWNERS.</li> </ol>  | PRELIMINARY - NO   |
| TEMPORARY FACILITIES, AND 4) REMOVE TEMPORARY FACILITIES ON COMPLETION OF WORK OR UNTIL SERVICE OR FACILITIES ARE NO<br>LONGER NEEDED OR ARE REPLACED BY AUTHORIZED USE OF COMPLETED PERMANENT FACILITIES.   | CONSTRUCTION LAYOUT AND SURVEYING NOTES:<br>1. SUBCONTRACTOR SHALL PROVIDE NEATLY RED MARKED DRAWINGS IDENTIFYING ANY MODIFICATIONS TO THE CONTRACT DOCUMENTS AND   |  |
| 19. THE SUBCONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A STAGING AREA FOR MATERIALS AND EQUIPMENT. SUBCONTRACTOR'S<br>STAGING AREA SHALL BE APPROVED BY CONTRACTOR OR OWNER. SUBCONTRACTOR'S STAGING AREA IS SUBJECT TO CHANGE AT THE<br>DIRECTION OF CONTRACTOR OR OWNER AND MAY CHANGE BASED ON OPERATIONAL REQUIREMENTS OF THE PROJECT SITE.   | INDICATING CONFORMANCE TO CONSTRUCTION RECORD CONDITIONS TO THE CONTRACTOR UPON COMPLETION OF THE WORK.<br>2. THE CONTRACTOR SHALL REVIEW COMPLETENESS, ACCURACY, AND FORMAT OF SUBMITTED RECORD DRAWINGS. IF THE RECORD DRAWINGS<br>ARE CONSIDERED UNACCEPTABLE, THEY SHALL BE RETURNED TO THE SUBCONTRACTOR FOR CORRECTION AND RESUBMITTED AT   |  |
| 20. REQUESTS FOR INFORMATION (RFIs) SHALL INCLUDE A DETAILED, LEGIBLE DESCRIPTION OF THE ITEM NEEDING INTERPRETATION.<br>CONTRACTOR WILL REVIEW EACH RFI, DETERMINE ACTION REQUIRED, AND ISSUE A RESPONSE TO SUBCONTRACTOR.  | SUBCONTRACTOR'S EXPENSE.<br>3. SUBCONTRACTOR SHALL MAKE AVAILABLE ALL SURVEYS IN AUTOCAD 2018 (OR NEWER) FORMAT AND SHALL PROVIDE SURVEY POINTS IN .CSV   | 9400 WARD PARKWAY<br>KANSAS CITY, MO 64114<br>816-333-9400   |
| 21. SUBMITTALS SHALL BE APPROVED BY CONTRACTOR PRIOR TO THE INSTALLATION OF PRODUCTS ON-SITE. SUBCONTRACTOR'S INSTALLATION OF UNAPPROVED PRODUCTS IS AT SUBCONTRACTOR'S RISK AND COST.   | FILE FORMAT.<br>4. CONTRACTOR MAY DIRECT SUBCONTRACTOR TO ALTER THE ALIGNMENTS, LENGTHS, AND DEPTHS OF INJECTION AND EXTRACTION TRENCHES  | OKLAHOMA FIRM LICENSEE NO. 42<br>date detailed<br>SEPTEMBER 2022 M. CARLI  |
| 22. SUBCONTRACTOR SHALL MIX CLEAN INJECTION TRENCH SPOILS WITH 1206 SPOILS UNTIL HOMOGENEOUS AND PLACE IN 12" LIFTS.<br>SUBCONTRACTOR SHALL ALSO MIX CLEAN INJECTION TRENCH SPOILS WITH GETR-WU-02 SPOILS UNTIL HOMOGENOUS AND PLACE IN 12"<br>LIFTS, RADIOLOGICAL TESTING WILL BE COMPLETED BY OTHERS AND IS SUBJECT TO APPROVAL BEFORE PROCEEDING TO THE NEXT LIFT.  | BASED ON FIELD OBSERVATION.<br>5. TOPOGRAPHY FEATURES AND AERIAL IMAGERY SHOWN ARE FROM A GROUND SURVEY DATED JULY 2014, AND AN AERIAL SURVEY DATED MAY<br>2014. TOPOGRAPHY UPDATED WITH GROUND SURVEY PERFORMED NOVEMBER 11, 2016 WITHIN BOUNDARIES INDICATED ON C001.   | designed<br>B. WEIS<br>J. HESEMA   |
| CONTRACTOR TO OBSERVE AND PROVIDE GUIDANCE.<br>23. IF ANY DISCREPANCIES ARE NOTED BETWEEN THESE CONSTRUCTION DOCUMENTS AND INFORMATION PROVIDED OR AN ERROR IS<br>SUSPECTED, IT SHALL BE IMMEDIATELY REPORTED TO THE CONTRACTOR AND THE PROJECT MANAGER.   |   |  |
| <ol> <li>ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.</li> <li>ALL CONSTRUCTION ACTIVITY, INCLUDING OPERATION OF HEAVY MACHINERY, EXCAVATION, FILLING, GRADING, CLEARING OF VEGETATION,<br/>DISPOSAL OF WASTE, AND STOCKPILING OF MATERIAL MUST TAKE PLACE WITHIN THE APPROVED WORK AREA AS AGREED UPON BY<br/>CONTRACTOR.</li> </ol>  |   | 1  |
| 26. AT A MINIMUM, THE SUBCONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL CONSTRUCTION ACCESS ROADS AND WORK AREAS DURING CONSTRUCTION OF THE PROJECT IN ORDER TO MAINTAIN SAFE AND OPERABLE WORK CONDITIONS.  |   | Cimarron Enviornmental Response T  |
| 27. NOISE IMPACTS FROM CONSTRUCTION SHALL BE MINIMIZED AND MITIGATED TO THE EXTENT POSSIBLE. SUBCONTRACTOR SHALL MAINTAIN<br>ALL EQUIPMENT IN GOOD OPERATING CONDITIONS AND ALL MOTORS AND ENGINES WILL BE MUFFLED ACCORDING TO MANUFACTURER'S<br>SPECIFICATIONS AND WILL COMPLY WITH STATE ENVIRONMENTAL LAW.   |   | GENERAL NOTES  |
| 28. FUGITIVE DUST RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE BY<br>IMPLEMENTING APPROPRIATE CONTROL MEASURES. DUST SHALL BE ELIMINATED FROM STOCKPILED SOILS, UNPAVED ROADS, ETC. BY THE<br>APPLICATION OF WATER OR STONE, RESPECTIVELY, AS NECESSARY. A WATERING VEHICLE SHALL BE AVAILABLE FOR THE DURATION OF<br>PROJECT ACTIVITIES, AND THROUGHOUT RESTORATION.   |   | project         contract           142089         -           drawing         rev.           BMCD-GWREMED-G001         - |
| 29. ALL INJECTION SUPPLY PIPE BENDS SHALL BE SWEEP FITTINGS.   |   | sheet of sheet   |

| OSION CONTROL NOTES:   | LEGEND                    |  | ABBREVIATIO   | NS:  |       |                          | no. date by ckd description   |
|--|---------------------------|--|---------------|--|-------|--------------------------|---|
| SUBCONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL<br>MEASURES REQUIRED AND AS A RESULT OF SUBCONTRACTOR'S ACTIVITIES. EROSION CONTROL MEASURES SHALL BE   |                           | UTILITY TRENCH ALIGNMENT<br>(APPLIES TO C002 ONLY) | APPROX.       | APPROXIMATE                                  | SWPPP | STORMWATER POLLUTION     | A 09/01/22 BCW RTB ISSUED FOR<br>PRELIMINARY                          |
| INSTALLED PRIOR TO COMMENCING CONSTRUCTION AT THE SITE.  | c                         | BURIED COMMUNICATION                               | BA1           | BURIAL AREA 1                                |       | PREVENTION PLAN          |   |
| CONTRACTOR WILL PROVIDE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) TO SUBCONTRACTOR .<br>SUBCONTRACTOR SHALL REVIEW SWPPP PRIOR TO PREPARING AND SUBMITTING A BID.  |                           | CONDUIT/ CABLE<br>BURIED INSTRUMENTATION           | BLDG.         | BUILDING                                     | TYP.  | TYPICAL                  |   |
| SUBCONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY, OWNER, OR  | <u> </u>                  | CONDUIT/ CABLE                                     | BMPs          | BEST MANAGEMENT PRACTICES                    | UP    | URANIUM POND             |   |
| CONTRACTOR. ADDITIONAL CONTROLS SHALL BE IMPLEMENTED AS DICTATED BY THE SITE CONDITIONS AT<br>SUBCONTRACTOR'S EXPENSE THROUGHOUT ALL PHASES OF THE CONTRACT WORK. NOTIFY CONTRACTOR OF ANY   | FOFO                      | BURIED FIBER OPTIC<br>CONDUIT/ CABLE               | 0             |  | U     | URANIUM                  |   |
| DISTURBANCES THAT ARE BEYOND THE PLANNED LIMITS OF CONSTRUCTION ACTIVITIES.  |                           | BURIED ELECTRICAL                                  | L             | CENTER LINE                                  | VNSFS | VEOLIA NUCLEAR SOLUTIONS |   |
| ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.<br>SUBCONTRACTOR SHALL REMOVE EROSION CONTROL FEATURES AT THE COMPLETION OF THE CONTRACT WORK IF SAID   |                           | CONDUIT/ CABLE                                     | CMP.          | CORRUGATED METAL PIPE                        |       | FEDERAL SERVICES         |   |
| FEATURES ARE NOT BIODEGRADABLE. REMOVAL SHALL NOT OCCUR UNTIL VEGETATION OR PERMANENT CONTROL<br>MEASURES HAVE BEEN ESTABLISHED.   | ET ET                     | GROUNDWATER<br>EXTRACTION TRENCH                   | CP.           | CONTROL POINT                                | WA    | WESTERN AREA             |   |
| SUBCONTRACTOR SHALL MINIMIZE CLEARING TO THE EXTENT PRACTICAL.   | GW GW                     | BURIED GROUNDWATER<br>EXTRACTION PIPE              | CPP           | CONTROL PANEL POWER                          | WATF  | WESTERN AREA TREATMENT   |   |
| ADDITIONAL EROSION CONTROL MEASURES SHALL BE DEPLOYED DURING EXCAVATION ACTIVITIES CONDUCTED WITHIN  | IS IS                     | BURIED INJECTION                                   | DIA.          | DIAMETER                                     |       | FACILITY                 |   |
| THE BOUNDARIES OF FORMER URANIUM POND 1 AND 2 LIMITS, AS DETAILED ON THESE CONSTRUCTION DRAWINGS.<br>POTENTIALLY IMPACTED SOIL REMOVED FROM THESE AREAS (DEFINED AS MATERIAL REMOVED FROM 6 FEET BELOW   |                           | WATER SUPPLY PIPE                                  | DWG.          | DRAWING                                      | WU .  | WESTERN UPLAND           |   |
| GROUND SURFACE AND ABOVE SANDSTONE A FOR URANIUM POND 1 AND 5 FEET BELOW GROUND SURFACE AND ABOVE<br>SANDSTONE A FOR URANIUM POND 2) SHALL BE SEGREGATED FROM CLEAN SOIL AND STAGED WITH BMPs TO PREVENT   |                           |  |               |  | WAA   | WESTERN ALLUVIAL AREA    |   |
| SEDIMENT MIGRATION. ADDITIONAL BMPS SHALL BE DEPLOYED TO PREVENT STORM WATER RUN-OFF AND POTENTIALLY<br>IMPACTED SOILS FROM ENTERING AND ACCUMULATING IN THE TRENCHES. SOIL MATERIAL ENTERING AND ACCUMULATING   | W                         | WATER SUPPLY<br>LNE                                | E.            | EAST   | Y     | YARD                     |   |
| IN THE TRENCH SHALL BE REMOVED AND HANDLED AS POTENTIALLY IMPACTED MATERIAL. POTENTIALLY IMPACTED SOIL REMOVED SHALL BE PLACED BACK IN THE TRENCH AND BELOW THE MINIMUM IMPACTED MATERIAL DEPTH AS FOLLOWS:  | £                         | PROPERTY LNE                                       | EL.           | ELEVATION                                    |       |                          |   |
| S.1. GWI-UP1-03 AND GWI-UP1-04: POTENTIALLY IMPACTED SOIL IS DEFINED AS SOIL MATERIAL WITHIN THE FORMER  |                           | EASEMENT   | EQ            | EQUAL  |       |                          |   |
| URANIUM POND 1 LIMITS BELOW 6 FEET BELOW GROUND SURFACE AND ABOVE GRAVEL FILTER FABRIC.<br>5.2. GWI-UP2-01: POTENTIALLY IMPACTED SOIL IS DEFINED AS SOIL MATERIAL WITHIN THE FORMER URANIUM POND 2 LIMITS  |                           | BURIED WATER<br>DISCHARGE PIPE                     | E.W.          | EACH WAY                                     |       |                          |   |
| BELOW 5 FEET BELOW GROUND SURFACE AND ABOVE GRAVEL FILTER FABRIC.  |                           |  | EX. OR EXIST. | EXISTING                                     |       |                          |   |
| ALL LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL BEST   | 936                       | EXISTING SURFACE<br>ELEVATION CONTOUR              | FT.           | FEET   |       |                          |   |
| MANAGEMENT PRACTICES AND STANDARDS. ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE<br>INSTALLED AS SHOWN ON THE APPROVED PLAN AND THE SWPPP.   | 026                       | PROPOSED SURFACE                                   |               |  |       |                          |   |
| SITE DRAINAGE PATTERNS, INCLUDING THE PROJECT SITE AND ADJACENT PROPERTIES SHALL BE MAINTAINED   | 930                       | ELEVATION CONTOUR                                  | GE            | GROUNDWATER EXTRACTION                       |       |                          |   |
| THROUGHOUT THE CONSTRUCTION PERIOD UNLESS OTHERWISE APPROVED BY THE CONTRACTOR.<br>THE SUBCONTRACTOR SHALL MAINTAIN ALL SEDIMENTATION CONTROL DEVICES AND TAKE ANY PRECAUTIONARY   |                           | EXISTING FENCE                                     | GETR          | GROUNDWATER EXTRACTION TRE                   | NCH   |                          |   |
| MEASURES TO ENSURE THAT SEDIMENT DOES NOT ENTER ANY NATURAL STREAM CHANNEL LOCATED WITHIN THE SITE.  | <b></b>                   | PROPOSED FENCE                                     | GWI           | GROUNDWATER INJECTION                        |       |                          |   |
| GROUND COVER REQUIREMENTS SHALL BE FOLLOWED IN ADDITION TO STANDARD EROSION CONTROL REQUIREMENTS.<br>THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF VEGETATION ON ALL<br>DISTURBED AREAS AND MEETING ALL FINAL STABILIZATION REQUIREMENTS. |                           | EXISTING CHANNEL                                   | HDPE          | HIGH DENSITY POLYETHLYENE                    |       |                          |   |
| ASTE MANAGEMENT NOTES:   | · · · · · ·               | PROPOSED CHANNEL                                   | INC.          | INCORPORATED                                 |       |                          |   |
| SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, MANAGEMENT, LOADING, AND STORAGE OF WASTE<br>MATERIALS ON-SITE, AND DISPOSAL OFF-SITE. WASTE MATERIALS INCLUDE:  | LOCAR RECYCL RANGER MATLE | FUTURE OUTFALL<br>LINE, BY OTHERS                  | INJ.          | INJECTION                                    |       |                          |   |
| A. WASTE AND CONSTRUCTION AND DEMOLITION DEBRIS.   |                           | EDGE OF PROPOSED                                   | LAT           | LATERAL                                      |       |                          |   |
| B. WASH WATER ASSOCIATED WITH CONCRETE TRUCKS, VEHICLE CLEANING, AND EQUIPMENT CLEANING.<br>C. SUBCONTRACTOR SHALL NOT REMOVE WASTE MATERIALS FROM THE SITE WITHOUT OBTAINING WRITTEN  |                           | ACCESS ROAD<br>AND LATERALS                        | MAX.          | MAXIMUM                                      |       |                          |   |
| APPROVAL FROM OWNER AND CONTRACTOR.<br>SUBCONTRACTOR SHALL BE RESPONSIBLE FOR TRANSPORTATION, DISPOSAL, AND OBTAINING HAULING AND DISPOSAL   |                           | CLEARING LIMITS                                    | MIN.          | MINIMUM                                      |       |                          |   |
| PERMITS.<br>SUBCONTRACTOR SHALL DISPOSE OF WASTE MATERIALS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL  |                           | ACCESS ROAD C WITH<br>STATION MARKS                | MISC.         | MISCELLANEOUS                                |       |                          | PRELIMINARY - N   |
| REGULATIONS.<br>TREES AND BRUSH GENERATED DURING CLEARING AND GRUBBING ACTIVITIES SHALL BE STOCKPILED IN   |                           | STRAW WATTLE                                       | N.            | NORTH  |       |                          | FOR CONSTRUCT   |
| OWNER-APPROVED AREAS AND REMOVED FROM THE SITE.  |                           | EROSION CONTROL BLANKET                            | O.C.          | OFF CENTER                                   |       |                          | <b>♦</b> BURNS  |
| THE SUBCONTRACTOR SHALL REMOVE FROM THE SITE THOSE MATERIALS NOT INDICATED TO BE SALVAGED. ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE SUBCONTRACTOR WHO SHALL LEGALLY DISPOSE OF THEM.   |                           |  | 0.D.          | OUTSIDE DIAMETER                             |       |                          | MEDONNELL   |
| SUBCONTRACTOR SHALL NOT REMOVE WASTE MATERIALS FROM THE SITE WITHOUT OBTAINING WRITTEN APPROVAL FROM   | ()<br>()                  | EXTRACTION TRENCH SUMP                             | ODOT          | OKLAHOMA DEPARTMENT OF                       |       |                          | 9400 WARD PARKWAY<br>KANSAS CITY, MO 64114                            |
| OWNER AND CONTRACTOR.  | <b>₽</b>                  | INJECTION WELL                                     |               | TRANSPORTATION                               |       |                          | KANSAS CITY, MO 64114<br>816-333-9400<br>OKLAHOMA FIRM LICENSEE NO. 4 |
|  | Ψ<br>\$                   | EXISTING MONITOR WELL                              | OG&E          | OKLAHOMA GAS & ELECTRIC                      |       |                          | date detailed   |
|  | Ð                         | PROPOSED CLEANOUT<br>(ARROW INDICATES              | OSHA          | OCCUPATIONAL SAFETY HEALTH<br>ADMINISTRATION |       |                          | SEPTEMBER 2022 T. COLL<br>designed checked<br>B. WEIS R. BETTM        |
|  |                           | DIRECTION OF CLEANOUT)                             | OZ.           | OUNCE  |       |                          |   |
|  |                           |  | PSI           | POUNDS PER SQUARE INCH                       |       |                          |   |
|  |                           |  |               |  |       |                          | 4   |
|  |                           |  | PVC           | POLYVINYL CHLORIDE                           |       |                          |   |
|  |                           |  | R             | RADIUS                                       |       |                          |   |
|  |                           |  | RFI           | REQUEST FOR INFORMATION                      |       |                          | Cimerron Environment I Days   |
|  |                           |  | RTU           | REMOTE TELEMETRY UNIT                        |       |                          | Cimarron Enviornmental Response<br>NOTES, LEGEND AND                  |
|  |                           |  | SP            | SPACED                                       |       |                          | ABBREVIATIONS   |
|  |                           |  | S.Q           | SQUARE                                       |       |                          | project contract<br>142089  |
|  |                           |  |               |  |       |                          | drawing rev   |
|  |                           |  | ST.           | STREET                                       |       |                          | BMCD-GWREMED-G002   |

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|  | 3 4 5   | 6 7 8 9<br>PIPING AND VALVE SYMBOLS   | 10 11 12 13<br>GENERAL NOTES  |  |
|--|---|---|---|--|
| ABBREVIATIO  | GENERAL<br>AG ABOVEGROUND<br>BA1 BURIAL AREA #1   | D CONCENTRIC REDUCER  | GENERAL NOTES  1. LEGEND IS GENERAL IN NATURE AND MAY INDICATE MORE INFORMATION THAN IS APPLICABLE TO PROJECT. SEE PROJECT PLANS FOR SPECIFIC NOTES, SPECIFICATIONS, SYMBOLS, AND ABBREVIATIONS.  | no. date by ckd description           A         10/04/21         AA         ED         ISSUED FOR<br>PRELIMINARY         DESIG |
| C COMPRESSOR<br>CV CHECK VALVE<br>EJ EXPANSION JOINT, FLEXIBLE CONNECTOR<br>FAN FAN OR LOW PRESSURE BLOWER<br>FOT/B FLAT ON TOP/BOTTOM<br>HB HOSE BIBB<br>MP METERING PUMP<br>MOV MOTOR OPERATED VALVE<br>MXR MIXER<br>NOZ NOZZLE  | COMM COMMUNICATION<br>CPP CONTROL POWER PANEL<br>FC FAIL CLOSED<br>FO FAIL OPEN<br>FOP FIBER OPTIC<br>FL FAIL LAST POSITION<br>GAL GALLON<br>HOA HAND / OFF / AUTO<br>INSTR INSTRUMENT<br>LSH LEVEL SWITCH HIGH   | Image: GLOBE VALVE     +     UNION       Image: GLOBE VALVE     ↓     REMOVABLE CAP       Image: GLOBE VALVE     =     FLANGE       Image: GLOBE VALVE     ↓     BAG FILTER   | <ol> <li>MECHANICAL EQUIPMENT AND APPURTENANCES SHALL BE INSTALLED IN<br/>ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, CONTRACT<br/>DOCUMENTS, INTERNATIONAL MECHANICAL AND PLUMBING CODES, AND<br/>APPLICABLE CODES AND REGULATIONS.</li> <li>ALL MECHANICAL EQUIPMENT SHALL BE LOCATED FOR UNOBSTRUCTED ACCESS<br/>TO UNIT ACCESS PANELS, CONTROLS, AND VALVING.</li> </ol> |  |
| P       PUMP         PI       PRESSURE INDICATOR         PT       PRESSURE TRANSMITTER         QCU       QUICK CONNECT UNIT         REC       RECEIVER         RO       ORIFICE PLATE OR RESTRICTION DEVICE         SFI       SIGHT FLOW INDICATOR         SG       SIGHT GLASS         SLR       SILENCER         SOV       SOLENOID OPERATED VALVE | LSL LEVEL SWITCH LOW<br>MCC MOTOR CONTROL CENTER<br>NC NORMALLY CLOSED<br>NO NORMALLY OPEN<br>OD OUTER DIAMETER<br>PB PUSH BUTTON<br>PSIG POUNDS PER SQUARE INCH GAUGE<br>RTU REMOTE TERMINAL UNIT<br>SCFM STANDARD CUBIC FEET / MINUTE<br>SCH SCHEDULE                               | Image: Butterfly valve     AGITATOR/MIXER       Image: Butterfly valve     AGITATOR/MIXER       Image: Butterfly valve     Image: Butterfly valve       Image: Butterfly valve     Image: B   | SELF ACTUATED VALVES<br>REDUCING REGULATOR<br>(SELF-CONTAINED)<br>BACKPRESSURE REGULATOR<br>(SELF-CONTAINED)  | -  |
| STR STRAINER<br>TK TANK<br>V VESSEL<br>WTR WATER TREATMENT (POLISHER, SOFTENER,<br>DEMINERALIZER)<br>XM MISCELLANEOUS MECHANICAL EQUIPMENT<br>XP MISCELLANEOUS PIPING SPECIALTY  | SP         SET POINT           UG         UNDERGROUND           LO         LOCKED OPEN           O/C         OPEN - CLOSE           QTY         QUANTITY           TYP         TYPICAL           UG         UNDERGROUND           V         VOLT           WA         WESTERN AREA    | INSTRUMENTATION AND CONTROL LEGEND  | BACKPRESSURE REGULATOR<br>WITH EXTERNAL TAP   |  |
| LINE CODES<br>CPR COPPER PIPE<br>CS CARBON STEEL<br>HDPE HIGH-DENSITY POLYETHYLENE PIPE<br>GLV GALVANIZED STEEL PIPE<br>PRH PRESSURE HOSE<br>PRH PRESSURE HOSE<br>DIP DUCTILE IRON PIPE<br>DIP DUCTILE IRON PIPE   | SERVICE CODES         CA       COMPRESSED AIR         EGW       EFFLUENT WATER         EXH       EXHAUST         EVP       EFFLUENT VAPOR         GW       GROUNDWATER         IGW       INFLUENT GROUNDWATER         INW       INFLUENT WATER         INW       INFLUENT GROUNDWATER | LOCATION/ACCESSIBILITY     DISCRETE<br>INSTRUMENTS     PLC     DISCRETE<br>HARDWARE<br>INTERLOCK       FIELD MOUNTED     1. FIELD OR LOCALLY MOUNTED.     C       2. ACCESSIBLE TO AN OPERATOR AT<br>DEVICE.     C     C  |   | _  |
| SS STAINLESS STEEL TAG NUMBERS "YY-ZZ" YY = DEVICE TYPE  | IVP INFLUENT VAPOR<br>PRD PRODUCT<br>VNT VENT<br>EQUIPMENT  | PRIMARY LOCATION NORMALLY<br>ACCESSIBLE TO AN OPERATOR<br>1. CENTRAL OR MAIN CONTROL ROOM.<br>2. FRONT OF MAIN PANEL OR CONSOLE<br>MOUNTED.<br>3. VISIBLE ON VIDEO DISPLAY.<br>4. ACCESSIBLE TO AN OPERATOR AT<br>DEVICE OR CONSOLE.  | SINGLE DIAPHRAGM OPERATED<br>OPERATED WITH MANUALLY OPERATED<br>HAND WHEEL<br>DIAPHRAGM WITH POSITIONER<br>SINGLE OR DOUBLE DIAPHRAGM   |  |
| (1.2 OR 3 LETTER CODE, ABBREVIATIONS -<br>AS DETAILED ABOVE)<br>ZZ = IDENTIFYING NUMBER<br>NO DUPLICATES UNLESS ITEMS ARE IN<br>SAME I & C "LOOP" OR MEASURE THE<br>SAME POINT.<br>SERVICE<br>√XXX DWG #   | REGENERATIVE BLOWER   | FIRST LETTER         SUCCEEDING LETTERS           MEASURED OR<br>INITIATING VARIABLE         MODIFIER         READOUT OR<br>PASSIVE FUNCTION         OUTPUT<br>FUNCTION         MODIFIER           A ANALYSIS         ALARM         -         -           B BURNER, FLAME, COMBUSTION         USER'S CHOICE         USER'S CHOICE         USER'S CHOICE           C USER'S CHOICE (TYPICALLY<br>CONDUCTIVITY - ELECTRICAL)         CONTROL         CLOSED           D USER'S CHOICE (TYPICALLY         DIFFERENTIAL         DIVERT  | FAIL SPRING OPEN<br>FAIL SPRING CLOSE<br>PISTON OPERATED (FC) AIR / PISTON<br>PISTON OPERATED<br>(DOUBLE ACTING)<br>PISTON OPERATED (FO) AIR / PISTON   | PRELIMINARY - NOT  |
| SAME POINT.<br>SERVICE<br>(XXX DWG #<br>TO/FROM<br>SERVICE<br>(XXX DWG #<br>TO/FROM<br>SERVICE<br>CONNECTOR NUMBER   | CENTRIFUGAL PUMP  | DENSITY OR SPÈCIFIC GRAVITY)     Image: Construction of the second | PISTON OPERATED<br>WITH POSITIONER<br>MOTOR OPERATED  | FOR CONSTRUCTION   |
| UTILITY CONNECTOR  | AIR COMPRESSOR  | L         Level         Light         Low           M         USER'S CHOICE (TYPICALLY<br>MOISTURE OR HUMIDITY)         MOMENTARY         MIDDLE,<br>INTERMEDIATE           N         USER'S CHOICE         USER'S CHOICE         USER'S CHOICE           O         USER'S CHOICE         ORFICE, RESTRICTION         OPEN           P         PRESSURE, VACUUM         POINT (TEST) CONNECTION         OPEN           Q         QUANTITY OR HEAT DUTY         INTEGRATE,<br>TOTALIZE         OUSER'S CHOICE         OUSER'S CHOICE   | SOLENOID OPERATED  SINGLE LINE PIPING  C+   | 816-333-9400       OKLAHOMA FIRM LICENSEE NO. 421       date       detailed       SEPTEMBER 2022       designed       E. DULLE |
| LINE SIZELINE CODE   | INSULATION IDENTIFICATION   | R     RADIATION     RECORD       S     SPEED, FREQUENCY     SAFETY       T     TEMPERATURE     TRANSMIT       U     MULTIVARIABLE     MULTIFUNCTION       V     VIBRATION, MECHANICAL<br>ANALYSIS     VALVE, DAMPER,<br>LOUVER       W     WEIGHT, FORCE     WELL       X     UNCLASSIFIED     UNCLASSIFIED       Y     EXEMPT, STATE OR PRESENCE     Y AXIS  | O+} ELBOW TURNING UP ←O TOP CONNECTION  | _  |
| MAIN PROCESS LINE     MAIN PROCESS LINE     ELECTRICAL POWER     INSTRUMENTATION SIGNAL/POWEF  | PIPING  | Z POSITION, DIMENSION Z AXIS DRIVER,<br>ACTUATOR,<br>UNCLASSIFIED<br>FINAL CONTROL<br>ELEMENT<br>INSTRUMENT IDENTIFICATION  |   | Cimmaron Environmental Response Trus<br>P&ID NOTES AND LEGEND<br>project contract<br>142089                                    |
| EQUIPMENT BOUNDARIES   | WG 9/1/2022 7:58 AM EAPULCHER   | (TYPICAL ALL INSTRUMENTS)<br>SEQUENCE NUMBER (XXX) INSTRUMENT IDENTIFICATION<br>SEE TABLE ABOVE   |   | drawing rev.<br>BMCD-GWREMED-P001 — A<br>sheet of sheets<br>file P001.DWG  |

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| Г  |  |  |  |   | STANDARD ELECTRICAL LEGEND   | )  |   |   |   |
| t  |  | POWER  | (  | DNE- LINE DIAGRAMS  | ELECTRICAL CA  | -<br>LLOUT SYMBOLS   |   | ELECTRIC  | AL ABBREVIATIONS  |
|  | 30/3<br>30/3<br>30AF/3<br>30/3/1<br>30/3<br>30/3 | NON-FUSED DISCONNECT. SUBSCRIPT DENOTES<br>AMPERE FRAME RATING AND NUMBER OF POLES.<br>MH 4'-0" AFF UNLESS OTHERWISE NOTED.<br>FUSED DISCONNECT. SUBSCRIPT DENOTES FUSE RATING<br>AND NUMBER OF POLES.<br>COMBINATION MOTOR STARTER. SUBSCRIPT DENOTES<br>AMPERE FRAME RATING, POLES AND NEMA STARTER<br>SIZE. MH 4'-0" AFF UNLESS OTHERWISE NOTED.<br>CONTACTOR. SUBSCRIPT DENOTES AMPERE RATING AND<br>NUMBER OF POLES. MH 4'-0" AFF UNLESS OTHERWISE<br>NOTED<br>MOTOR STARTER. MH 4'-0" AFF UNLESS OTHERWISE<br>NOTED  | SWITCH TAG<br>30A<br>3P<br>(20A)<br>  SWITCH TAG<br>30A<br>3P<br>  BREAKER TAG<br>15AT<br>  (20)AF                     | DISCONNECT SWITCH, FUSED<br>30 = FRAME RATING<br>3 = POLES<br>(20) = FUSE AMPERE RATING<br>DISCONNECT SWITCH, NON-FUSED<br>30 = FRAME RATING<br>3 = POLES<br>MOLDED CASE CIRCUIT BREAKER<br>OR MOTOR CIRCUIT PROTECTOR<br>15 = TRIP RATING<br>(20) = FRAME RATING   | ONE OR TWO<br>CHARACTER DISCIPLINE<br>DESIGNATOR (MAY NOT<br>BE PRESENT IF<br>CALLOUT AND TITLE<br>ARE ON DRAWINGS<br>WITHIN THE SAME<br>DISCIPLINE)<br>SECTION, DETAIL, A | <ul> <li>LETTER OR<br/>NUMBER DESIGNATOR</li> <li>DRAWING SEQUENCE<br/>NUMBER INDICATES</li> <li>WHERE TITLE IS LOCATED<br/>(MAY NOT BE PRESENT IF<br/>CALLOUT AND TITLE ARE<br/>ON THE SAME DRAWING)</li> </ul> | A<br>AC<br>AF<br>AFG<br>AI.<br>AT<br>ATS<br>AT<br>BFG<br>BOD<br>B<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>ONT  | - AMPERE,<br>- AIR COND<br>- AMP FRAM<br>- ABOVE FII<br>- ANOVE FII<br>- ANALOG II<br>- ANALYZEF<br>- AMP TRIP<br>- AUTOMAT<br>- BELOW FII<br>- BUTTOM C<br>- BUZZER<br>- CONDUIT<br>- CILCORINE  | AMP<br>ITION<br>//E<br>VISHED FLOOR<br>VISHED GRADE<br>NPUT<br>R<br>IC TRANSFER SWITCH<br>AATELY<br>NISHED GRADE<br>OF DUCT   |
|  | ╕┛╷┿┿  | JUNCTION BOX<br>CONDUIT TURNING UP<br>CONDUIT TURNING DOWN<br>CONDUIT CAPPED<br>CONDUIT TEE<br>CONDUIT COUPLING  |  | MOTOR<br># = MOTOR TAG<br>1 = HORSEPOWER (HP)<br>GENERATOR<br>AUTOMATIC TRANSFER SWITCH   | THE WORD "<br>MAY BE REP<br>"ELEVATION"<br>SECTION   | SECTION"   | CNTL<br>CPP<br>CPU<br>CR<br>DED<br>DCS<br>DIST<br>DIV<br>EC<br>ELEC   | - COMPUTE<br>- CONTROL<br>- DEDICATE<br>- DISTRIBU<br>- DISTRIBU<br>- DIVISION<br>- ELECTRIC<br>- ELECTRIC  | POWER PANEL<br>R<br>RELAY<br>D<br>IED CONTROL SYSTEM<br>TION<br>AL CONTRACTOR<br>AL   |
| uluuhuu huu huu huu huu huu huu huu huu  |  | CONTROL OR POWER PANEL<br>MANHOLE OR HANDHOLE<br>PULL BOX<br>ELECTRIC HEAT TRACING<br>TRANSFORMER (T)<br>ELECTRICAL PANELBOARD<br>INSERT DENOTES PANEL NAME<br>CONTROL POWER PANEL: CPP<br>POWER OR DISTRIBUTION PANEL: PP, DP<br>SWITCHGEAR: SG<br>AUTOMATIC TRANSFER SWITCH: ATS<br>PRE-WIED CONTROL PANEL: PWCP<br>PROGRAMMABLE LOGIC CONTROLLER: PLC   | xFMR TAG<br>150 KVA<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓     | TRANSFORMER<br>RATING<br>GROUNDED WYE CONNECTED<br>DELTA CONNECTED<br>MOTOR STARTER AND OVERLOAD<br>0 - STARTER SIZE<br>ELECTRIC HEATER<br>UTILITY METER  | SECTION, DETAIL, OR ELI<br>A<br>FP001<br>SECTION CALLO<br>B<br>A00<br>ELEVATION CALLO  | A<br>FP001<br>PUT EXAMPLE  | EM<br>EMT<br>ENCL<br>F<br>GD<br>GFI<br>GD<br>GND<br>ID<br>I/O<br>KVA<br>KV<br>KV<br>KW<br>LFMC<br>MCP<br>MCD<br>MCD   | <ul> <li>ELECTRIC</li> <li>ENCLOSU</li> <li>FUSE</li> <li>GRADE</li> <li>GROUND I</li> <li>GROUND I</li> <li>GROUND I</li> <li>GROUND I</li> <li>INSIDE DI/</li> <li>INSIDE DI/</li></ul> | FAULT INTERRUPTER<br>LUG<br>AMETER<br>JTPUT<br>AMPERE<br>GHT FLEX METAL CONDUIT<br>C CONTACTOR<br>CASE CIRCUIT BREAKER/MAIN<br>ONTROL CENTER<br>IRCUIT PROTECTOR  |
| Later of the second sec |  | GROUNDING         GROUNDING CONDUCTOR BURIED OR CONCEALED         GROUNDING CONDUCTOR EXPOSED         LIQUID FLEXIBLE METAL CONDUIT         WELDED GROUND CONNECTION         COMPRESSION/BOLTED GROUND CONNECTION         GROUND ROD - Ø3/4" x 10', COPPER CLAD         GROUND TEST WELL         PIGTAIL FOR EQUIPMENT/ STRUCTURE CONNECTION         18" LIGHTNING AIR TERMINAL         MISCELLANEOUS         ①       LEVEL TRANSMITTER         ①       TEMPERATURE TRANSMITTER         ①       THERMOSTAT         F       /P/         ⑦       TEMPERATURE INDICATOR         ①       TEMPERATURE INDICATOR         ①       TEMPERATURE INDICATOR         ①       TEMPERATURE INDICATOR | $\frac{VSS}{P} = \frac{P}{2}$ $\frac{VFD TAG}{VFD 1 HP}$ $(3R)$ $FT FT TAG$ $E E-1 VT$ $C C-1 VT$ $\frac{PP-1}{(480)}$ | TRANSIENT VOLTAGE SURGE SUPPRESSION<br>ELECTRICAL CABLE<br>INSERT DENOTES CABLE NUMBER<br>POWER: P<br>CONTROL: C<br>VARIABLE FREQUENCY DRIVE<br>1 = HORSEPOWER RATING<br>(3R) = NEMA RATING<br>FLOW TRANSMITTER<br>ELECTRICAL TRANSITION VAULT<br>E = ELECTRICAL<br>VT = VAULT<br>C = ELECTRICAL<br>VT = VAULT<br>C = ELECTRICAL<br>VT = VAULT<br>C = ELECTRICAL<br>VT = VAULT<br>C = TAG<br>PANELBOARD<br>PP-1 = PP - PANELBOARD; 1-TAG<br>[480] = VOLTAGE<br>1PH, 200A 3W = PHASE, BUS SIZE (AMP)<br>WIRE CONFIGURATION<br>18KA = SHORT CIRCUIT CURRENT RATING<br>MLO = MAIN LUG ONLY | DETAIL CALLOU<br>SECTION, DETAIL,<br>IDENTIFICATION  | AND ELEVATION  | MIN<br>MPS<br>N2<br>NEC<br>OD<br>OEM<br>PC<br>PH<br>PLC<br>PPP<br>PVC<br>PWR<br>R<br>RGS<br>RX<br>SPD<br>SPD<br>SPD<br>SPD<br>SPD<br>TOS<br>TYP<br>TX<br>UDS<br>UPS<br>UV<br>V<br>VAC<br>VDC<br>W<br>WP<br>XFMR | <ul> <li>MINIMUM</li> <li>MOTOR PI</li> <li>MOTOR PI</li> <li>NUTROGE</li> <li>NATIONAL</li> <li>NON FUSE</li> <li>OUTSIDE I</li> <li>ORIGINAL</li> <li>POLE</li> <li>POWER CI</li> <li>PHASE</li> <li>PROGRAM</li> <li>POWER POWER PI</li> <li>ALARM LIG</li> <li>REGEIVER</li> <li>SURGE PF</li> <li>SWITCH</li> <li>TERMINAL</li> <li>TEMPERA</li> <li>TOP OF S'</li> <li>TYPICAL</li> <li>TRANSMIT</li> <li>UNINTERF</li> <li>ULTRA-VUC</li> <li>VOLT AMP</li> <li>VOLTAGE</li> <li>WIRE, WA'</li> <li>WEATHERE</li> <li>TRANSFOI</li> </ul>  | ROTECTION SWITCH<br>LECTRIC CODE<br>D<br>DIAMETER<br>EQUIPMENT MANUFACTUREI<br>ONNECTION BOX<br>IMABLE LOGIC CONTROLLER<br>ANEL<br>L CHLORIDE<br>SHT<br>VANIZED STEEL CONDUIT<br>ROTECTIVE DEVICE<br>BLOCK<br>TURE<br>TEEL<br>TER<br>ISTRIBUTION SYSTEM<br>XUPTIBLE POWER SUPPLY<br>DLET<br>S<br>ALTERNATING CURRENT<br>DIRECT CURRENT<br>TT<br>PROOF<br>RMER<br>TION ABBREVIATIONS |
|  |  | LI       LEVEL INDICATOR         FM       FLOW METER         FT       FLOW TRANSMITTER         PT       PRESSURE TRANSMITTER         PS       PRESSURE SWITCH         FS       FLOW SWITCH         LS       LEVEL SWITCH         Q       EQUIPMENT TAG CALL OUT         (1)       KEYED NOTE   | 1PH, 200A 3W<br>18kA<br>MLO<br>  | PANELBOARD<br>PP-1 = PP - PANELBOARD; 1-TAG<br>[480] = VOLTAGE<br>1PH, 200A 3W = PHASE, BUS SIZE (AMP)<br>WIRE CONFIGURATION<br>18KA = SHORT CIRCUIT CURRENT RATING<br>MCB = MAIN CIRCUIT BREAKER, [AMP<br>RATING]  |  |  | C<br>CONC.<br>CR<br>DC<br>DWG<br>FE<br>FIN.<br>FM<br>FM<br>ICO<br>LSH<br>NCO<br>NO.<br>NO.<br>PT<br>PS<br>CD<br>DC<br>DC  | - CONCRET<br>- CONTROL<br>DIRECT CI<br>DISCONNE<br>- DRAWING<br>- FLOW ELE<br>- FINISH<br>- FLOW MET<br>- FLOW MET<br>- FLOW TRA<br>- INPUT / OU<br>- LEVEL SW<br>- NORMALL'<br>- NUMBER<br>- PRESSURI<br>- PRESSURI<br>- PRESSURI<br>- TWISTED I   | RELAY<br>JRRENT<br>SCT<br>MENT<br>IER<br>INSMITTER<br>JIPUT<br>ITCH HIGH<br>Y CLOSED<br>Y OPEN<br>E TRANSMITTER<br>E SWITCH<br>PAIR (CABLE)<br>SHIELDED PAIR (CABLE)  |

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## GENERAL NOTES:

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1. THESE GENERAL NOTES APPLY TO ALL DRAWINGS UNLESS OTHERWISE NOTED. ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED.

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- 2. THE EXACT LOCATION OF CONDUITS, DEVICES AND EQUIPMENT MAY DEVIATE FROM THE LOCATION INDICATED ON THESE DRAWINGS.
- 3. SUBCONTRACTOR SHALL FIELD ROUTE CONDUITS TO AVOID INTERFERENCE WITH OTHER EXISTING AND PROPOSED UTILITIES.

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- 4. ALL WORK PERFORMED SHALL CONFORM TO ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO, THE LATEST VERSION OF THE NATIONAL ELECTRIC CODE ADOPTED BY AUTHORITIES HAVING JURISDICTION.
- 5. LABEL ALL ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO SAFETY SWITCHES, MOTOR STARTERS, COMBINATION STARTERS, AND CONTACTORS INSTALLED, WITH DESIGNATIONS AS SHOWN.
- 6. ABOVE GRADE CONDUIT SHALL BE 1" TRADE SIZE MINIMUM AND SHALL BE RGS TYPE AND BELOW GRADE CONDUIT SHALL BE 1" TRADE SIZE MINIMUM AND SHALL BE PVC (SCH 80), UNLESS OTHERWISE NOTED.
- 7. ALL 600 VOLT POWER WIRING SHALL BE TYPE XHHW-2 SINGLE CONDUCTOR IN CONDUIT ONLY. ALL CONTROL WIRING SHALL BE MINIMUM #14 AWG MULTI-CONDUCTOR TYPE XLPE. ALL INSTRUMENTATION WIRING SHALL BE #18 AWG MULTI-CONDUCTOR TYPE XLPE SHIELDED PAIRS UNLESS OTHERWISE STATED.
- 8. MINIMUM CONDUCTOR SIZE FOR 480 VOLT POWER CIRCUITS SHALL BE #10 AWG. MINIMUM CONDUCTORS SIZE FOR POWER AND LIGHTING CIRCUITS LESS THAN 480 VOLT SHALL BE #12 AWG.
- 9. PULL A GROUND WIRE TO EACH DEVICE AND PIECE OF EQUIPMENT. ALL EQUIPMENT AND DEVICES SHALL BE GROUNDED ACCORDING TO ARTICLE 250 OF THE NEC.
- 10. ALL CIRCUIT BREAKERS SHALL BE 15 AMP MIN, UNLESS OTHERWISE NOTED.

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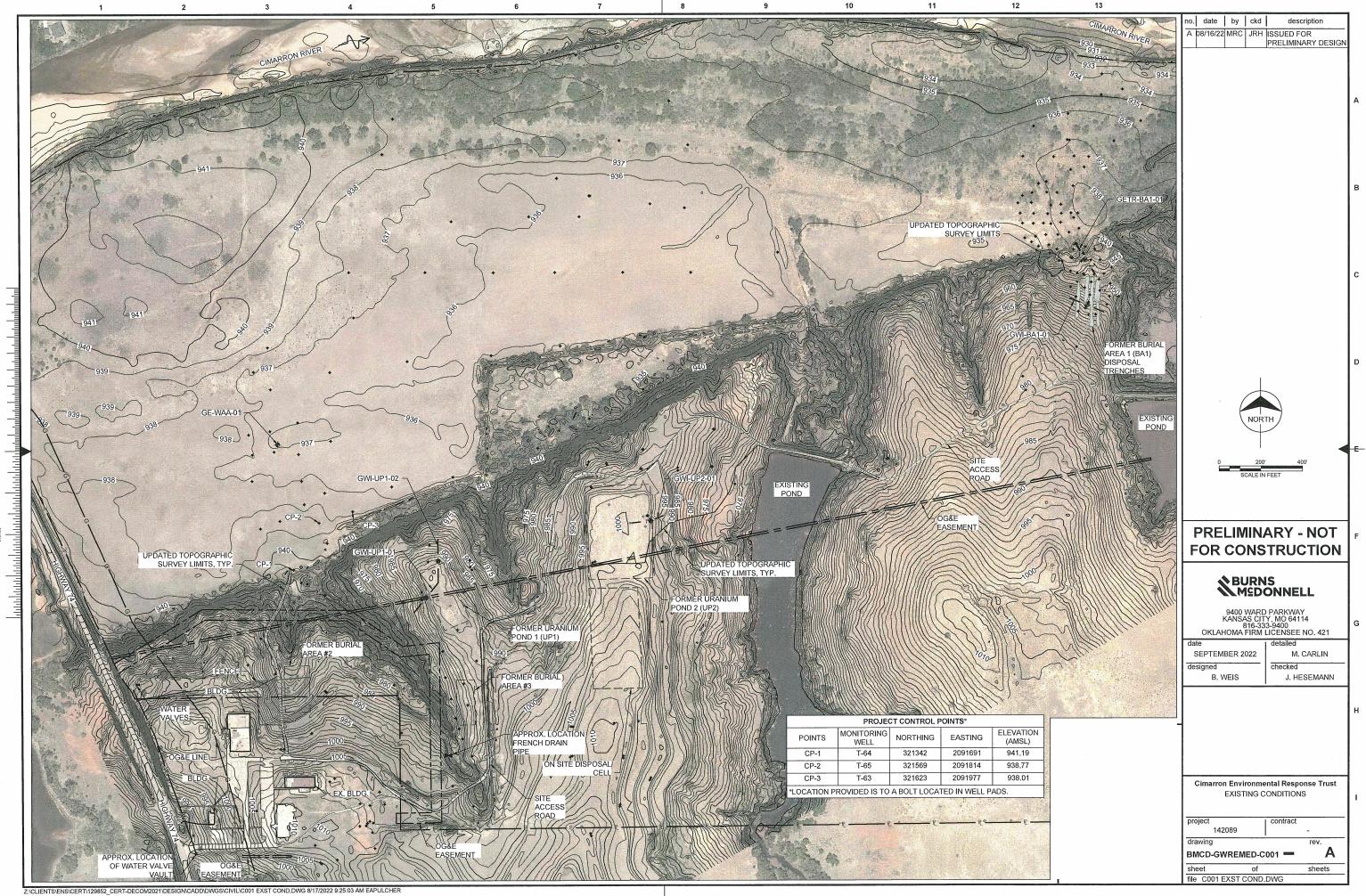
- 11. ELECTRICAL SUBCONTRACTOR IS RESPONSIBLE FOR MAKING FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT INSTALLED AND/OR RELOCATED, UNLESS OTHERWISE STATED ON THE DRAWING. SPECIFICALLY STATEMENT OF WORK FOR WESTERN AREA TREATMENT FACILITY STOPS AT DEMARCATION VAULT FOR SOURCE POWER, REFERENCE DRAWINGS E101 AND E102.
- 12. SIZE JUNCTION AND PULL BOXES PER NATIONAL ELECTRICAL CODE, UNLESS OTHERWISE NOTED.

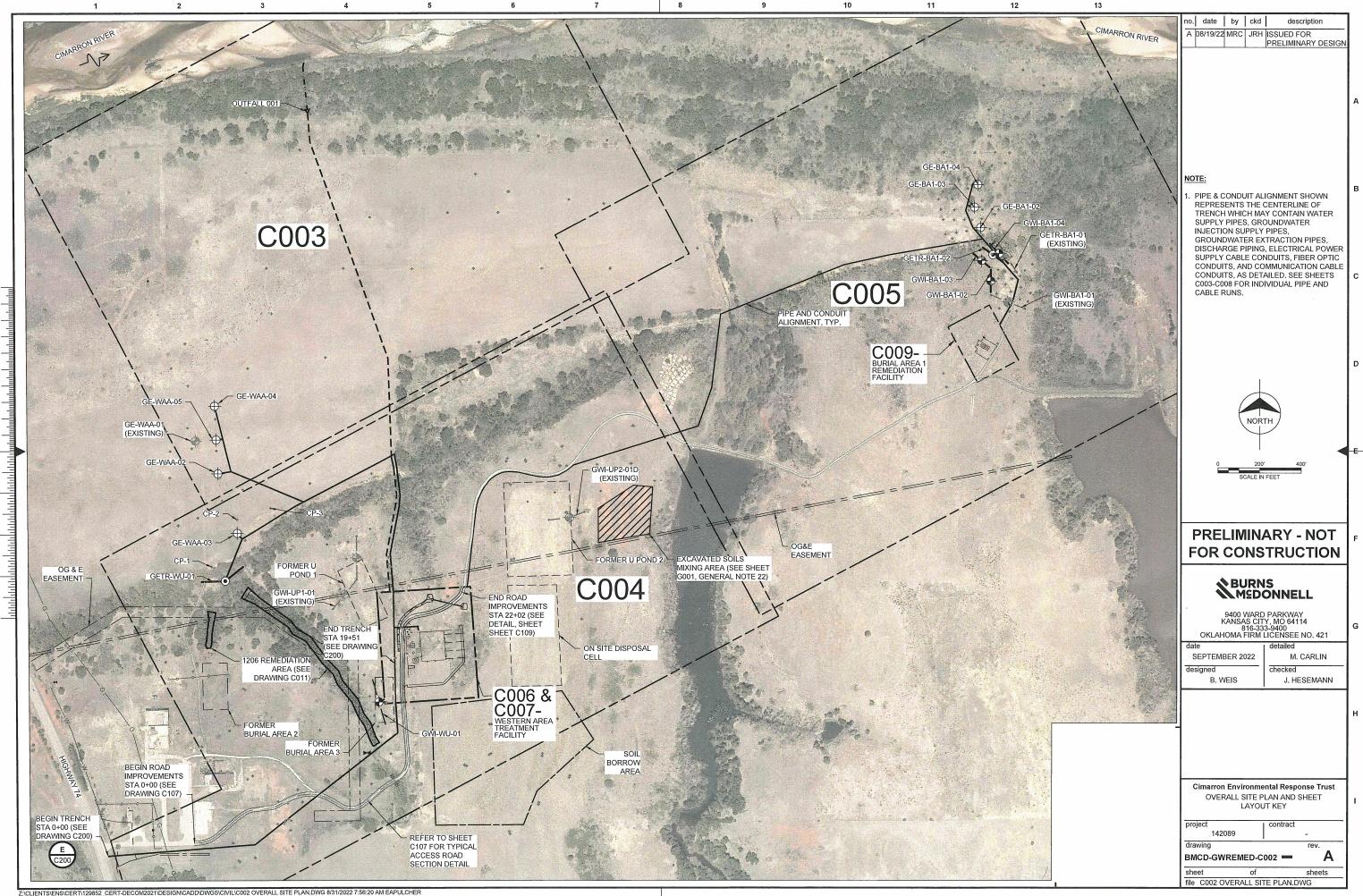
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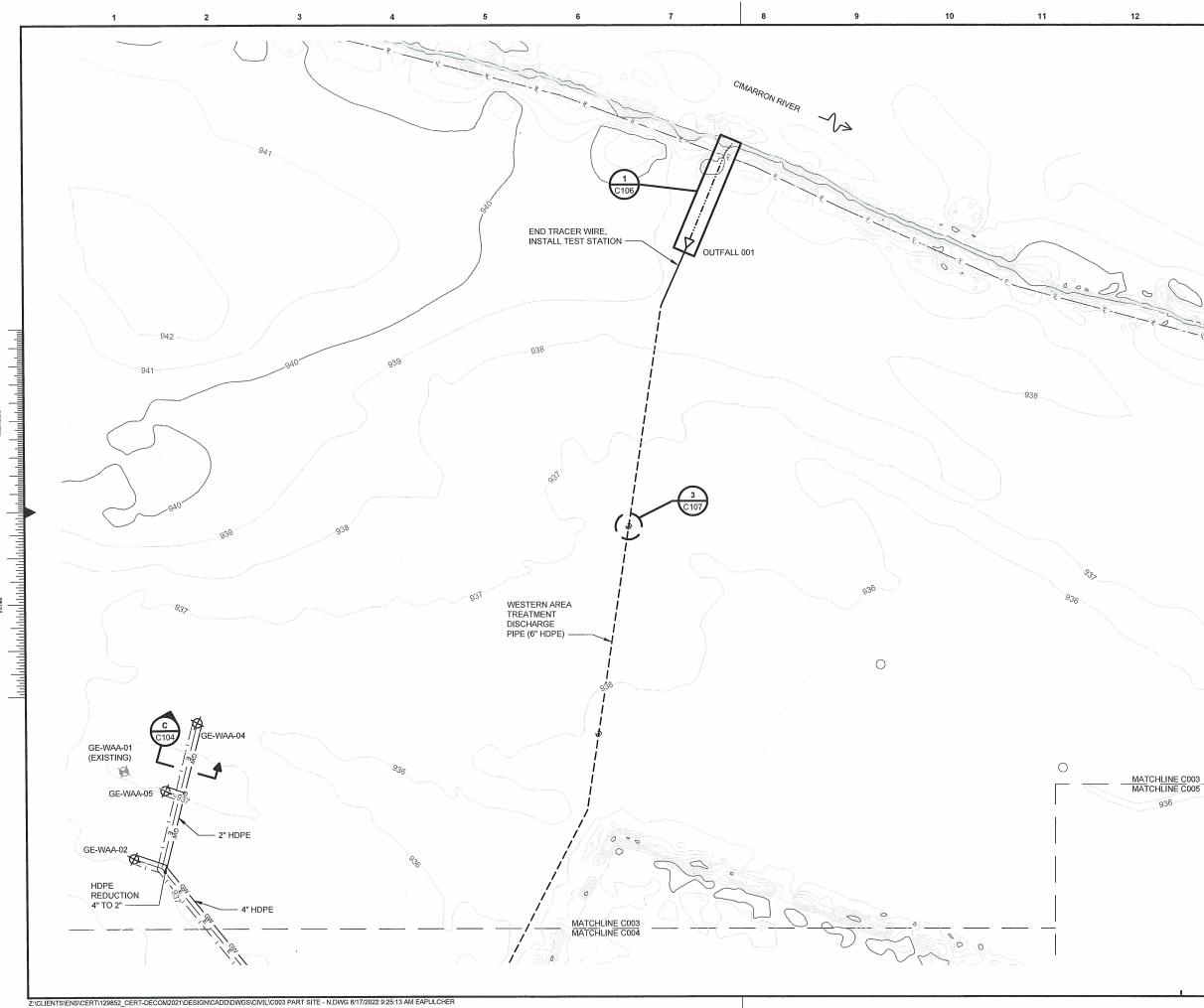
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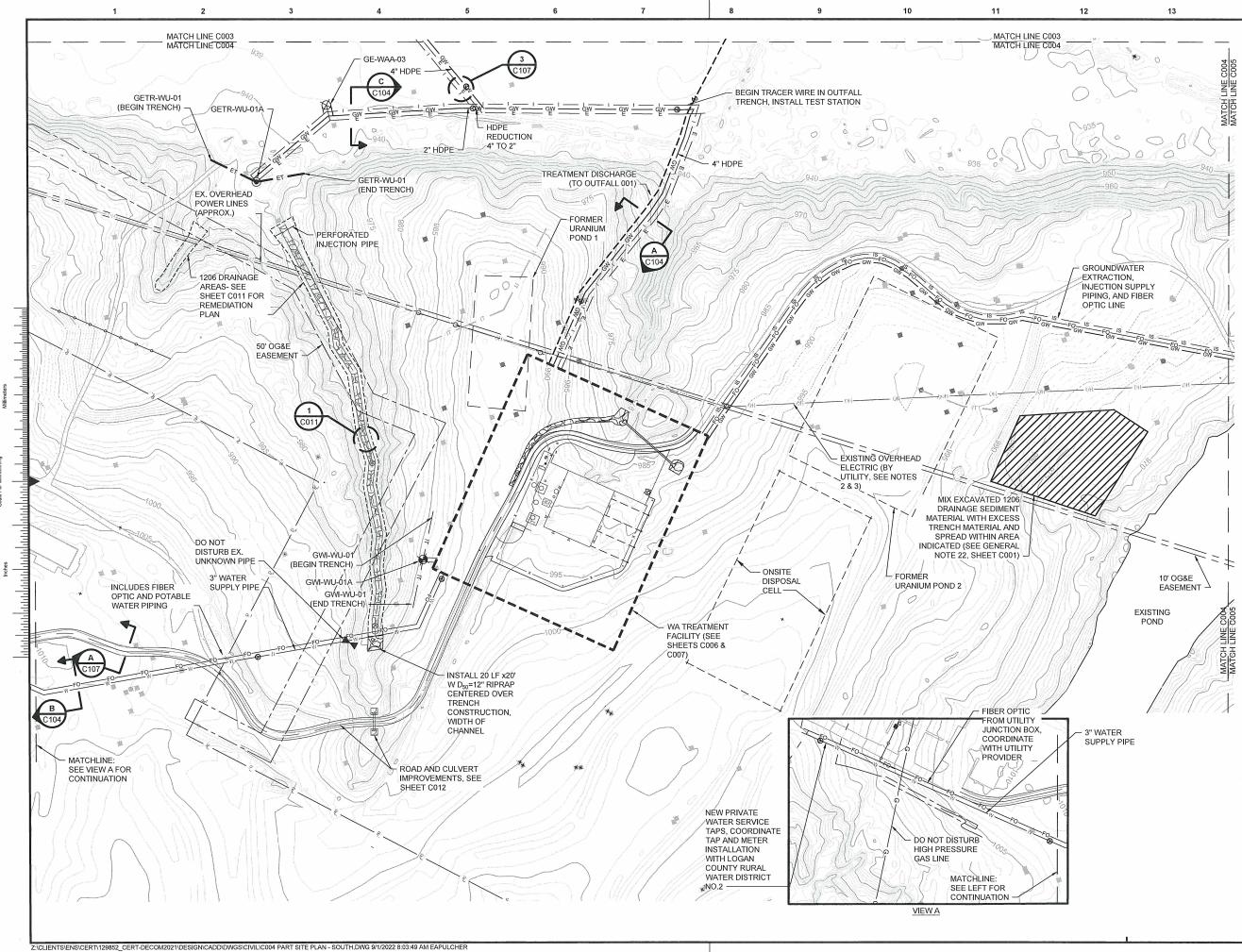




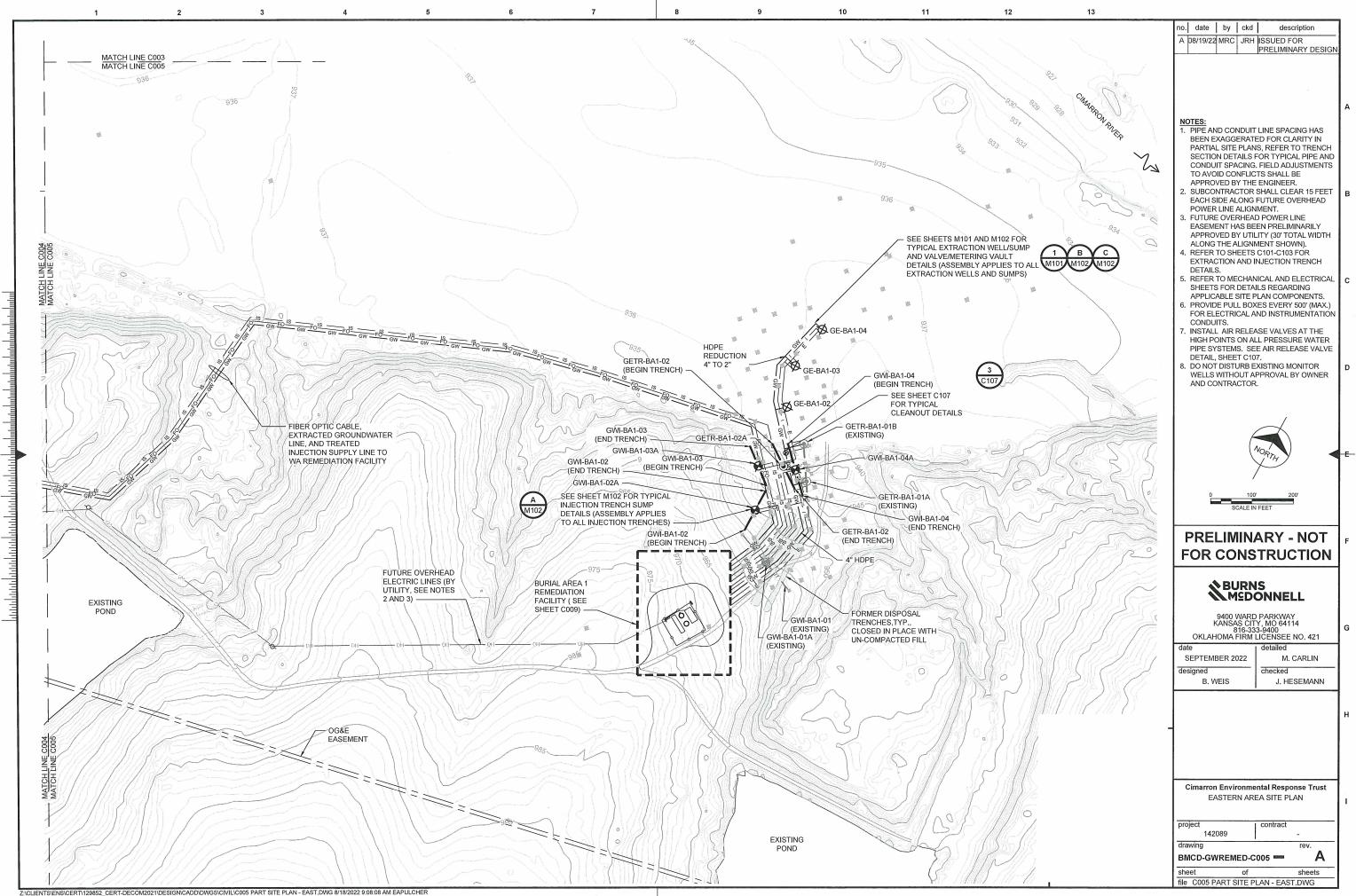


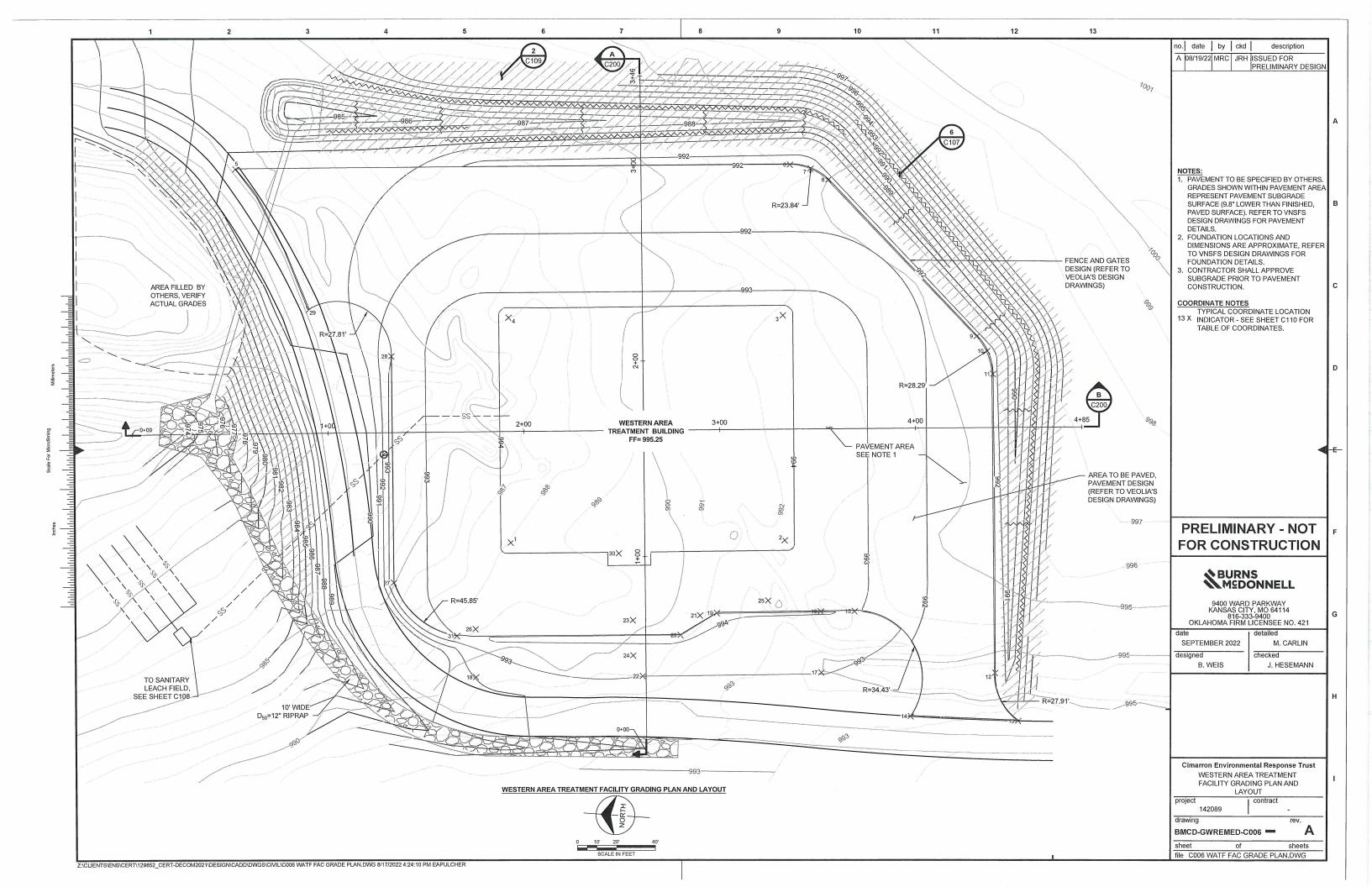
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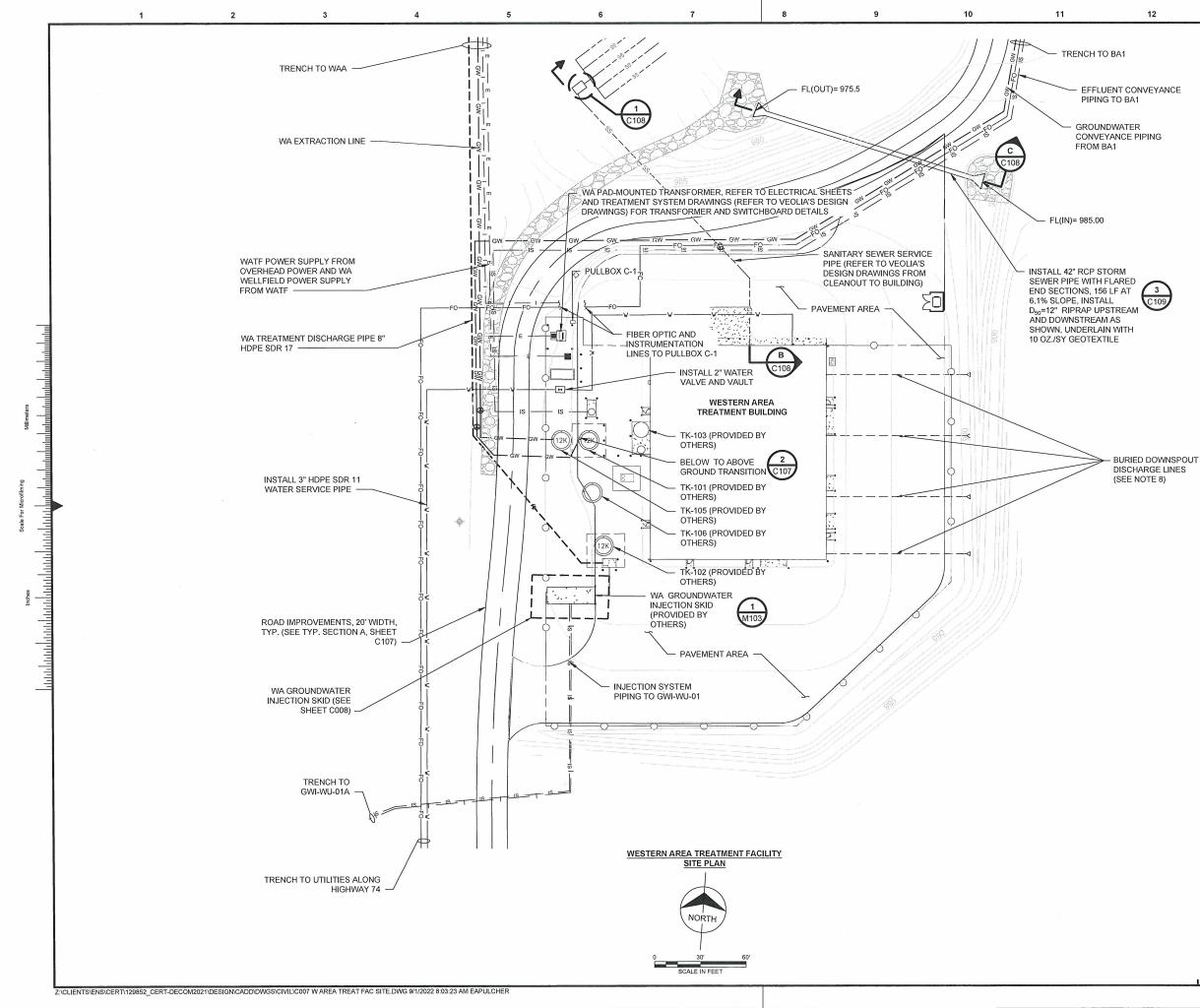
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|   | NOTES:  |    |
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|   | BEEN EXAGGERATED FOR CLARITY IN<br>PARTIAL SITE PLANS. REFER TO TRENCH  |    |
|   | SECTION DETAILS FOR TYPICAL PIPE AND<br>CONDUIT SPACING. FIELD ADJUSTMENTS  |    |
|   | OF TRENCH ROUTING TO AVOID  |    |
|   | CONFLICTS SHALL BE APPROVED BY<br>ENGINEER.   |    |
|   | 2. REFER TO MECHANICAL AND ELECTRICAL<br>SHEETS FOR DETAILS REGARDING   | с  |
|   | APPLICABLE SITE PLAN COMPONENTS.  | ľ  |
|   | 3. PROVIDE PULL BOXES EVERY 500' (MAX.)<br>FOR ELECTRICAL AND INSTRUMENTATION   |    |
| - | CABLES.<br>4. INSTALL AIR RELEASE VALVES AT THE   |    |
|   | HIGH POINTS ON ALL PRESSURE WATER<br>PIPE SYSTEMS. SEE AIR RELEASE VALVE  |    |
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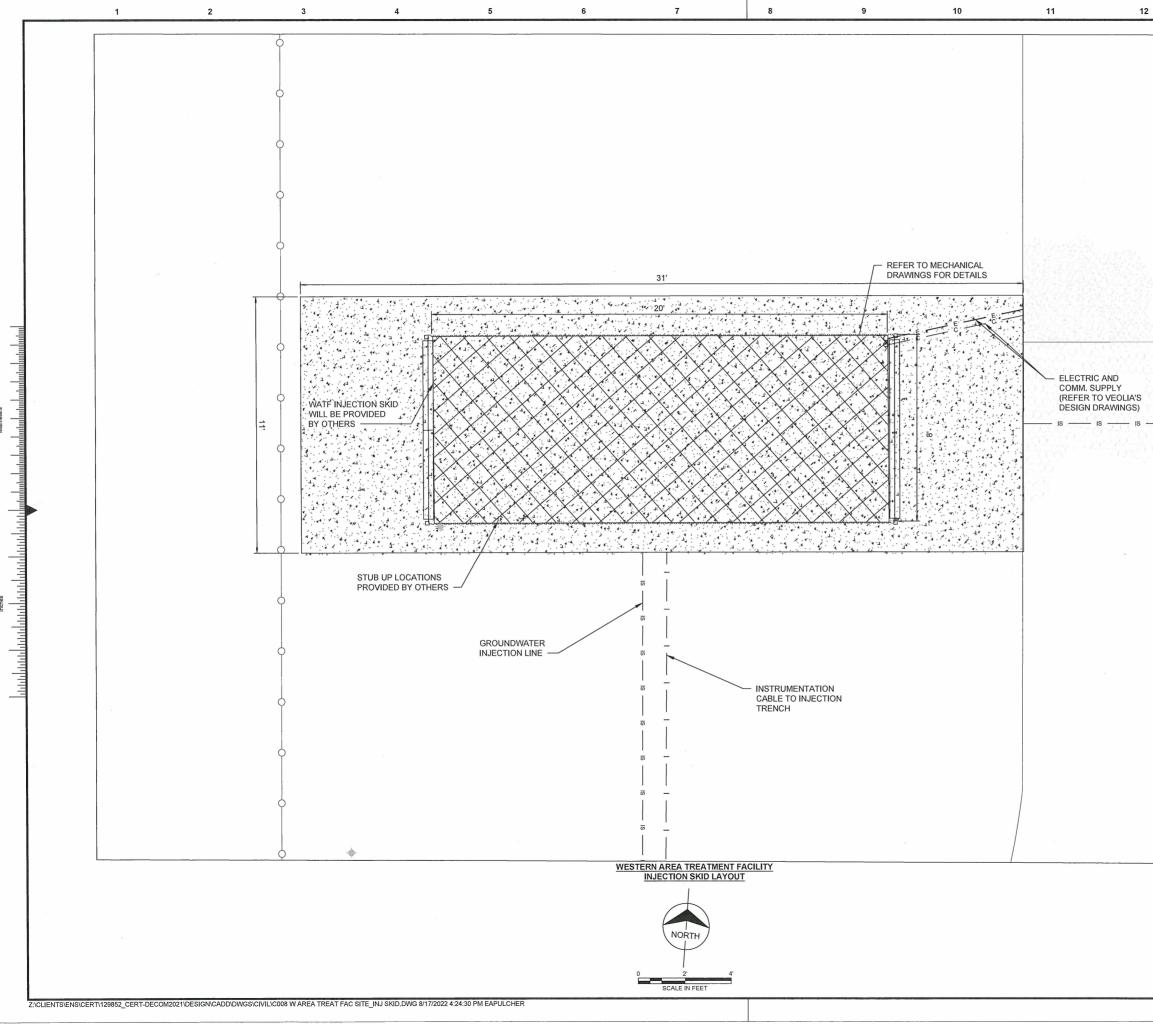
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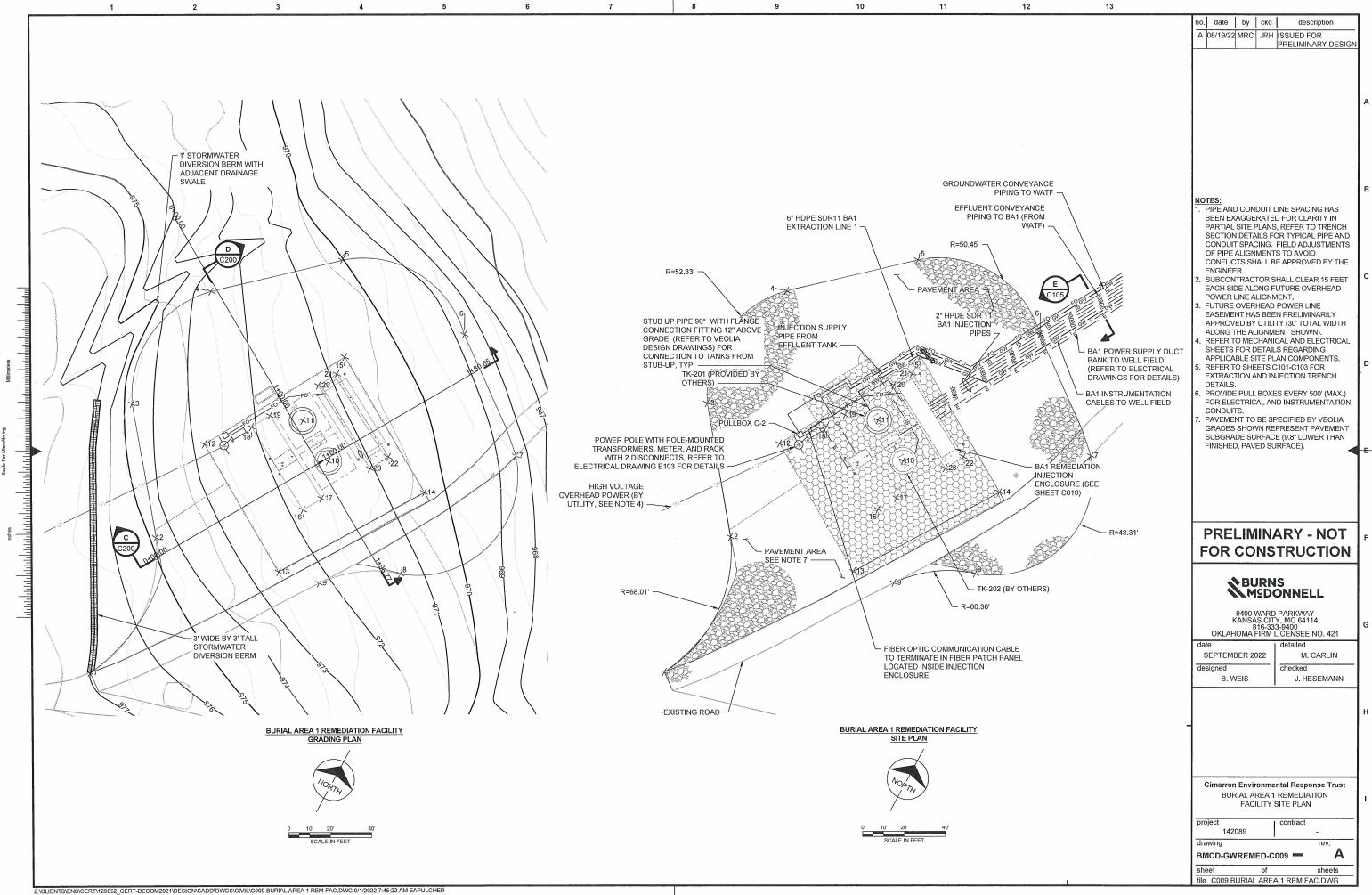


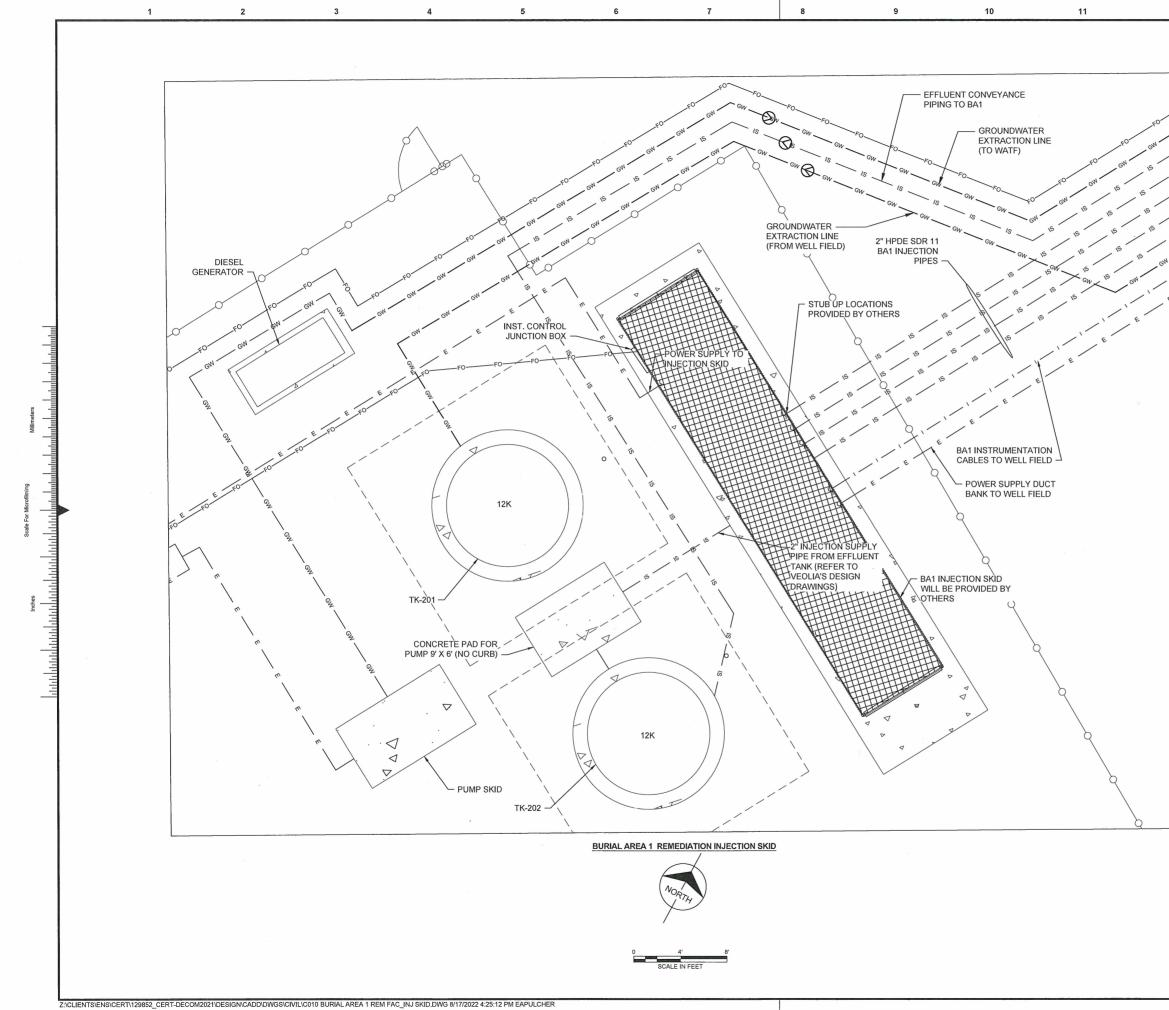


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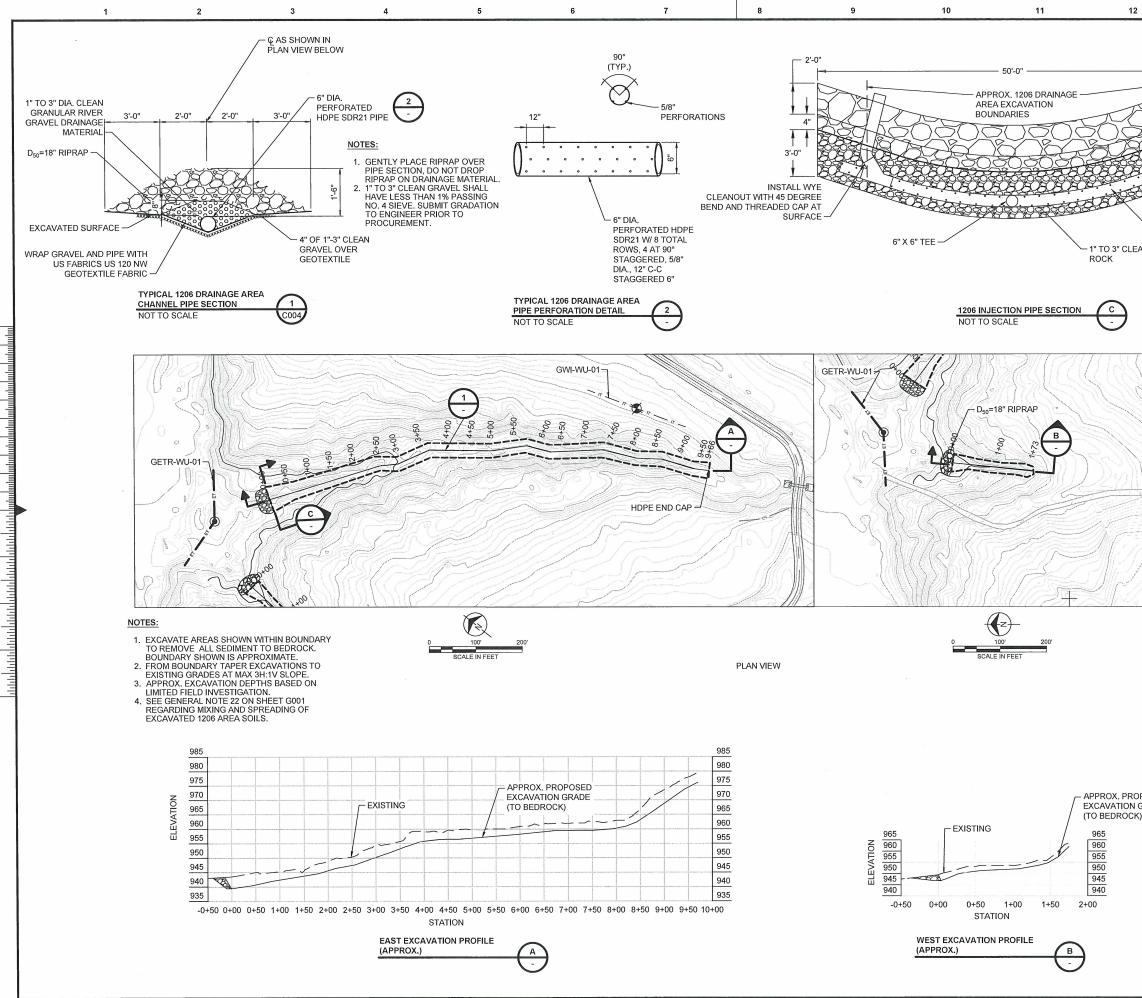


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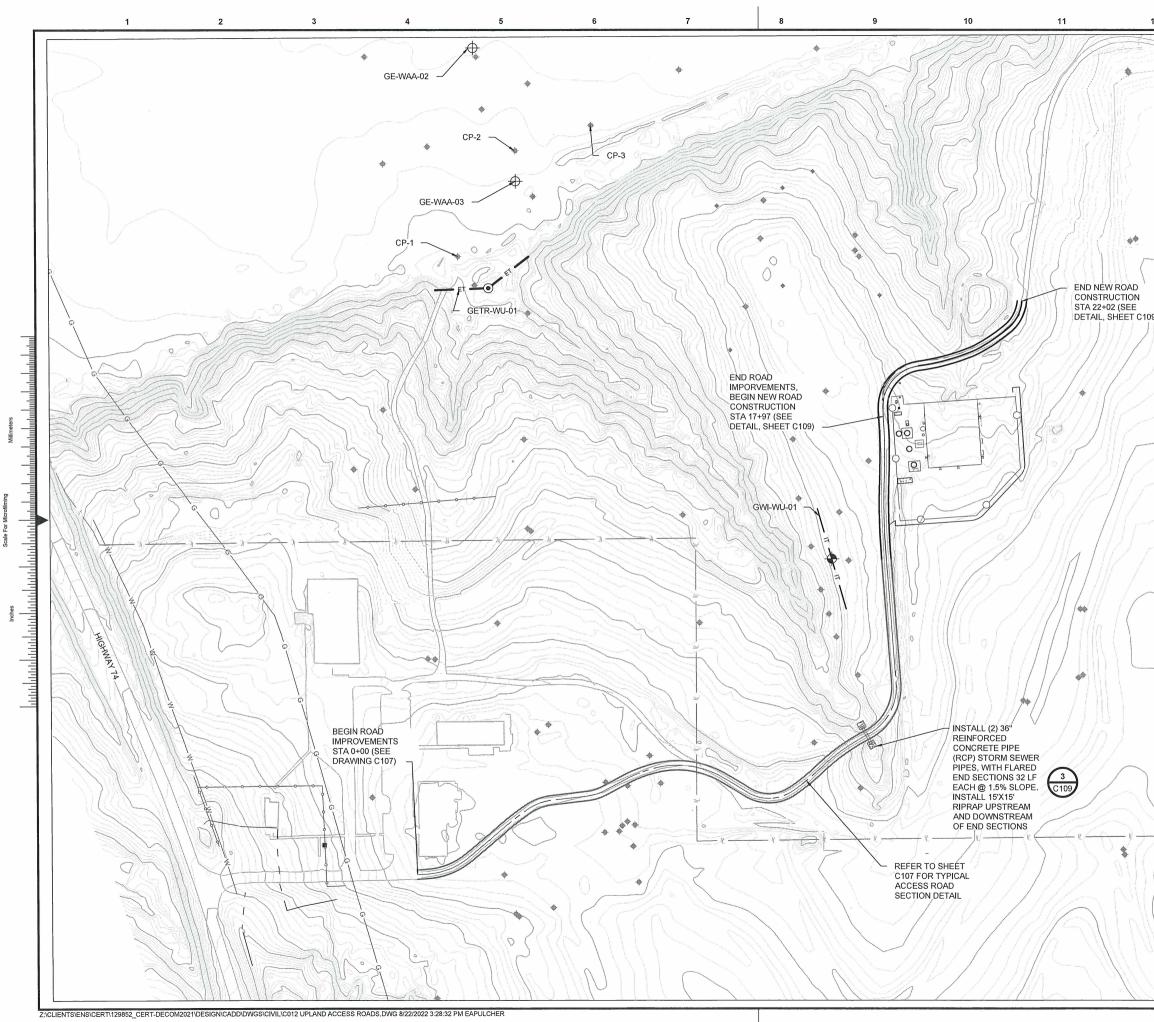




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|                | 06/19/22  | WIRC   | JKH  | PRELIMINARY DESIG  | N                                |
|                |   |  |  |  | A                                |
|                | TEO   |  |  |  | B                                |
| 1.<br>2.<br>3. | BEEN EX<br>PARTIAL<br>SECTION<br>CONDUI<br>OF PIPE<br>CONFLIC<br>ENGINEE<br>REFER T<br>SHEETS<br>APPLICA<br>PROVIDE | AGGE<br>SITE F<br>N DETA<br>T SPAC<br>ALIGN<br>CTS SH<br>ER.<br>TO MEC<br>FOR D<br>BLE SI<br>E PULL<br>CTRIC | RATEI<br>PLANS<br>ILS FC<br>ING.<br>MENT<br>ALL B<br>CHANIO<br>ETAIL<br>ITE PL<br>BOXE | INE SPACING HAS<br>D FOR CLARITY IN<br>, REFER TO TRENCH<br>DR TYPICAL PIPE AND<br>FIELD ADJUSTMENTS<br>S TO AVOID<br>E APPROVED BY THE<br>CAL AND ELECTRICAL<br>S REGARDING<br>AN COMPONENTS.<br>S EVERY 500' (MAX.)<br>D INSTRUMENTATION | с                                |
|                | CONDO   | 13.  |  |  | D                                |
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| F              |   |  | NS<br>IRN<br>S CIT<br>16-33:<br>TRM L  | TRUCTION<br>Sonnell<br>PARKWAY<br>7, M0 64114<br>JGENSEE NO. 421<br>detailed   | F                                |
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| da<br>c        | OKLAH<br>te<br>SEPTEME<br>Signed<br>B. W  | 9400 1<br>9400 1<br>8<br>10MA F<br>BER 20<br>VEIS<br>1 Envir<br>RIAL AI                                      | NARD<br>S CITT 16-333<br>IRM I<br>022  | TRUCTION<br>SDNNELL<br>PARKWAY<br>7-9400<br>ICENSEE NO. 421<br>detailed<br>M. CARLIN<br>checked<br>J. HESEMANN   | -                                |
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|   | A 08/19/22 MRC JRH ISSUED FOR<br>PRELIMINARY DESIGN  |   |
| D <sub>50</sub> =18" RIPRAP<br>4" WELL GRADED<br>GRAVEL BEDDING<br>US 300 NW<br>GEOTEXTILE FABRIC<br>(US FABRICS) |  | А |
| 6" PERFORATED HDPE 2<br>PIPE SDR 21<br>AN RIVER   |  | В |
|   |  | с |
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|   |  | E |
| 0   | PRELIMINARY - NOT<br>FOR CONSTRUCTION  | F |
|   | BURNS<br>MEDONNELL           9400 WARD PARKWAY<br>KANSAS CITY, MO 64114<br>816-333-9400<br>OKLAHOMA FIRM LICENSEE NO. 421           date           SEPTEMBER 2022           designed           B. WEIS           J. HESEMANN | G |
| POSED<br>GRADE<br>()  |  | Н |
|   | Cimarron Environmental Response Trust<br>1206 DRAINAGE AREA<br>REMEDIATION PLAN<br>project<br>142089 -   | I |
|   | drawing rev. BMCD-GWREMED-C011 — A sheet of sheets file C011 1206 DRAINAGE REM PLAN.DWG  |   |



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| (♣/// /// )/// )                            |      |              | M      |              | S<br>DNNELL   |   |
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| -   º/// /// <b>#</b> /// <b>/</b> //       |      |              | OMA    | IRM L        |   |   |
|   | dat  | e<br>EPTEME  | RER 20 | 122          | detailed<br>M. CARLIN                               |   |
|   |      | igned        |        |              | checked   |   |
|   |      | в. W         | EIS    |              | J. HESEMANN   |   |
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| NE AL TIL INC STUDIO                        |      |              |        |              |   | н |
| DI THE WELLER                               |      |              |        |              |   |   |
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