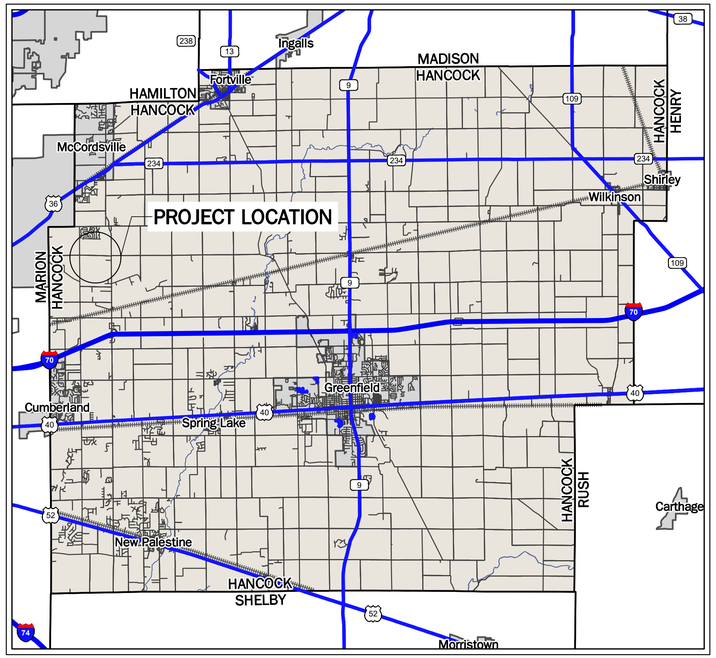
CLAYBORNE OFFSITE UTILITIES CONSTRUCTION DOCUMENTS

N CR 700 W & W CR 500 N

TOWN OF MCCORDSVILLE, HANCOCK COUNTY, IN



LOCATION MAP

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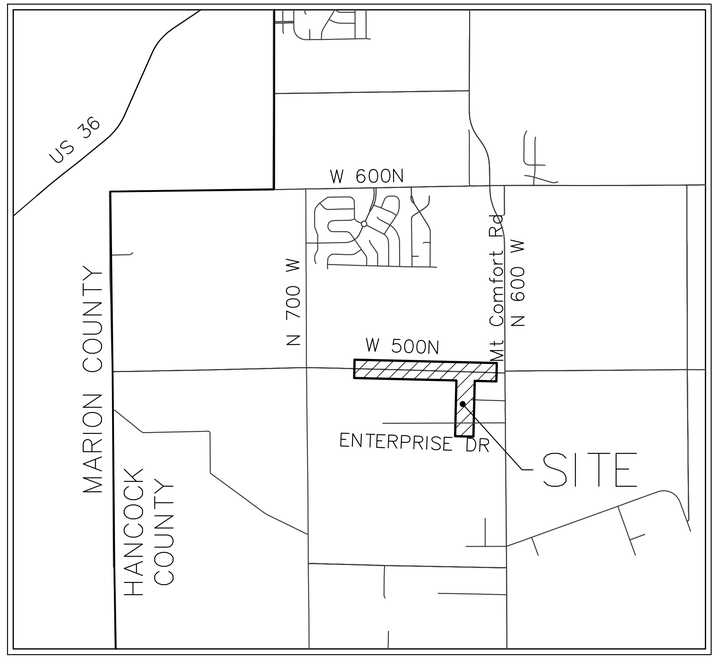

VICINITY MAP

NOT TO SCALE

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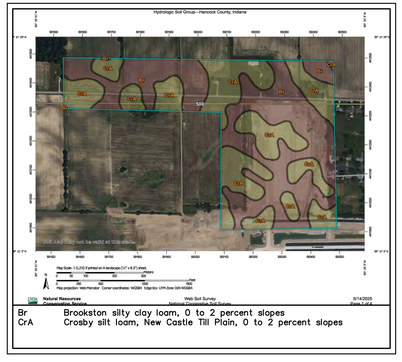
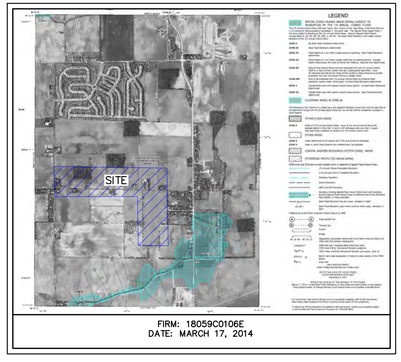


Br Brookston silty clay loam, 0 to 2 percent slopes
CrA Crosby silt loam, New Castle Till Plain, 0 to 2 percent slopes

SOILS MAP

NOT TO SCALE



FIRM: 18059C0106E
DATE: MARCH 17, 2014

FEMA MAP

NOT TO SCALE

BENCHMARK DATA

(NAVD 88 DATUM)

BENCHMARK ELEVATIONS WERE ESTABLISHED FROM PREVIOUS JOB (2020.00092) FROM TBM #53. THE ELEVATIONS WERE THEN TRANSFERRED TO THE SITE USING DIFFERENTIAL LEVELING.

TBM #90
A MAG SPIKE IN THE NORTHEAST FACE OF A POWERPOLE (12277) LOCATED 170± WEST OF A STONE DRIVE AND 15± SOUTH OF THE CENTERLINE OF COUNTY ROAD W 500 N
ELEV: 864.06'

TBM #91
A MAG SPIKE IN THE NORTH FACE OF A POWERPOLE (12283) LOCATED 140'± SOUTH OF A 6758 W 500 N RESIDENCE
ELEV: 863.24'

TBM #92
A MAG SPIKE IN THE WEST FACE OF A POWERPOLE (12195) LOCATED 106'± SOUTHWEST OF 5612 N PEPPEREEL WAY RESIDENCE AND 38'± EAST OF THE CENTERLINE OF COUNTY ROAD N 700 W.
ELEV: 867.76'

TBM #93
A MAG SPIKE IN THE WEST FACE OF A POWERPOLE (12199) LOCATED 16'± EAST OF THE CENTERLINE OF COUNTY ROAD N 700 W.
ELEV: 865.53'

TBM #94
A MAG SPIKE IN THE WEST FACE OF A POWERPOLE (12204) LOCATED 110'± SOUTHWEST OF 5299 N 700 W RESIDENCE AND 16'± EAST OF THE CENTERLINE OF COUNTY ROAD N 700 W.
ELEV: 866.55'

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT & NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE & DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
CABLE TELEVISION	BRIGHTHOUSE NETWORKS	JASON KIRKMAN	(317) 632–9077
ELECTRIC	NINE STAR CONNECT	NINE STAR ENGINEERING	(317) 326–3131
FIBER OPTIC	NINE STAR CONNECT	NINE STAR ENGINEERING	(317) 326–3131
GAS	CENTERPOINT ENERGY	JON EASTHAM	(317) 287–2119
SANITARY SEWER	AQUA INDIANA	JIM SHIELDS	(317) 967–0503
STORM SEWER	TOWN OF MCCORDSVILLE	RON CRIDER	(317) 335–3493
TELEPHONE	CENTURYLINK	JOHN UNVERFERTH	(419) 226–6342
WATER	CITIZENS ENERGY GROUP	BRAD HOSTETLER	(317) 927–4351

!! CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL TOLL FREE "811" OR 1–800–382–5544
– INDIANA UNDERGROUND –

ARBOR HOMES
9225 HARRISON PARK COURT
INDIANAPOLIS, IN 46216

AMERICAN STRUCTUREPOINT INC.
9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

CLAYBORNE OFFSITE UTILITIES CONSTRUCTION DOCUMENTS

N CR 700 W & W CR 500 N
MCCORDSVILLE, INDIANA

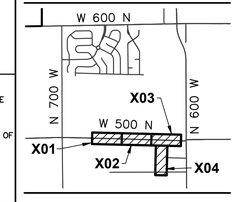
JOSHUA H. CRIBELAR
REGISTERED
No. 11800754
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

ISSUANCE INDEX
DATE: 08/22/2025
PROJECT PHASE: CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2024.01016



TITLE SHEET

C001

PLOT DATE: 8/22/2025 11:40 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/22/2025
EDITED BY: M.LYNCH
DRAWING FILE: \Indy\SNP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 C0_C000_TS.dwg

GENERAL NOTES

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. CONTRACTOR SHALL KEEP ADJOINING PROPERTIES CLEAN OF CONSTRUCTION DEBRIS AND CONSTRUCTION TRAFFIC AT ALL TIMES.
3. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY THE BASE SURVEY CONTROL POINTS DURING DEMOLITION AND CONSTRUCTION.
4. ALL UTILITY INFORMATION SHALL BE VERIFIED BY THE CONTRACTOR. CONTACT ENGINEER IMMEDIATELY IF ANY VARIATION EXISTS.
5. MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS. IF ANY DISCREPANCIES ARE FOUND IN THESE PLANS FROM ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

EXISTING TOPOGRAPHY NOTES

1. EXISTING TOPOGRAPHY IS PROVIDED BY: AMERICAN STRUCTUREPOINT, INC.
   PROJECT: 2024.01016 DATED: NOVEMBER 20, 2024

DEMOLITION NOTES

1. CLEAR AND GRUB ALL TREES AND VEGETATION NECESSARY FOR CONSTRUCTION.
2. PROTECT TREES TO REMAIN DURING CONSTRUCTION.
3. PLANT MATERIALS TO REMAIN, TO BE PROTECTED BY TREE FENCE WHICH ENCOMPASSES IT'S DRIP LINE. NO CONSTRUCTION EQUIPMENT, MATERIALS OR DEBRIS SHALL BE LOCATED WITHIN TREE PROTECTION BOUNDARIES. NO DEMOLITION CAN OCCUR UNTIL TREE PROTECTION IS APPROVED BY THE OWNER.
4. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, FENCES, CONCRETE, ASPHALT PAVEMENT AND OTHER MISCELLANEOUS APPURTENANCES OFF SITE, UNLESS NOTED TO REMAIN ON THE CONTRACT DRAWINGS.
5. DEMOLISH FOUNDATIONS AND OTHER BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS, TO A DEPTH OF NOT LESS THAN 48 INCHES BELOW LOWEST FOUNDATION LEVEL.
6. COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION OF STRUCTURES, WITH COMPACTED GRANULAR BACKFILL.
7. THE USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
8. CONDUCT DEMOLITION AND CONSTRUCTION OPERATIONS TO ENSURE MINIMAL INTERFERENCE WITH STREETS, WALKS AND OTHER ADJACENT OCCUPIED FACILITIES.
9. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
10. ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION AND CONSTRUCTION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT STRUCTURES AND OTHER FACILITIES AND INJURY TO PERSONS.
11. PROMPTLY REPAIR DAMAGE TO ADJACENT FACILITIES CAUSED BY DEMOLITION AND CONSTRUCTION OPERATIONS.
12. ALL UTILITIES TO BE REMOVED SHALL BE DISCONNECTED AND CAPPED AT THE NEAREST CONNECTION POINT.
13. NO ON-SITE BURNING IS PERMITTED.
14. CONTRACTOR SHALL USE MEASURES TO CONTROL DUST AT ALL TIMES.
15. DEMOLITION ITEMS INCLUDE BUT ARE NOT LIMITED TO DEMOLITION ITEMS INDICATED ON THIS PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE OR RELOCATE ITEMS WHICH INTERFERE WITH NEW CONSTRUCTION.
16. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING DEMOLITION.

SITE NOTES

1. ALL PARKING STRIPES ARE TO BE 4" PAINTED (WHITE). ADA ACCESSIBLE PARKING STRIPES SHALL BE 4" PAINTED (BLUE).
2. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT OR BACK OF CURB, UNLESS NOTED OTHERWISE.
3. ALL DIMENSIONS ARE TO FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
4. ALL DIMENSIONS ARE PARALLEL WITH, OR PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES, UNLESS OTHERWISE NOTED.
5. PROVIDE SMOOTH TRANSITIONS FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
6. RESURFACE OR RECONSTRUCT AT LEAST TO ORIGINAL CONDITIONS ALL AREAS WHERE THE EXISTING PAVEMENT OR LAWNS ARE DAMAGED DURING CONSTRUCTION FROM TRAFFIC BY CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS AFTER CONSTRUCTION WORK IS COMPLETE.
7. EXISTING PAVEMENT TO BE SAW CUT IN ALL AREAS WHERE INDICATED NEW PAVEMENT TO JOIN EXISTING.
8. THE EDGE OF THE EXISTING ASPHALT PAVEMENT SHALL BE PROPERLY SEALED WITH A TACK COAT MATERIAL IN ALL AREAS WHERE NEW ASPHALT PAVEMENT IS INDICATED TO JOIN EXISTING ASPHALT.
9. CONCRETE SAW CUTTING SHALL BE DONE AS SOON AS POURED CONCRETE HAS CURED AND CAN SUPPORT WEIGHT. PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.
10. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.
11. RADIAL JOINTS SHALL BE NO SHORTER THAN 1.5'.
12. CONTRACTOR SHALL USE A THICKENED EXPANSION JOINT AROUND THE PERIMETER OF ANY BLOCK OUT IN THE CONCRETE PAVING.
13. ALL CONSTRUCTION JOINTS SHALL BE SAWN, CLEANED OF DEBRIS, BLOWN DRY AND IMMEDIATELY SEALED WITH THE APPROPRIATE SEALANT ACCORDING TO MANUFACTURER'S DIRECTIONS.
14. ALL MATERIALS TO BE IN ACCORDANCE WITH LOCAL DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS RELATIVE TO MATERIAL, MIX, PLACEMENT AND WORKMANSHIP.
15. ALL SIDEWALKS SHALL COMPLY WITH ADA STANDARDS. MAXIMUM CROSS SLOPE OF 1:50 AND MAXIMUM LONGITUDINAL SLOPE OF 1:20.
16. CHAMFER ALL ENDS OF CURBS.
17. ALL STREET SIGNAGE TO HAVE BLACK POSTS PER TOWN REQUIREMENT. CONTRACTOR TO PROVIDE SHOP DRAWING TO ENGINEER AND TOWN FOR APPROVAL PRIOR TO PURCHASING.

GRADING NOTES

1. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
2. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION. SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATIONS OF UTILITIES FOR THEIR OWN WORK.
4. CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE AT HIS/HER OWN COST.
5. AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL SHALL BE PERFORMED BY A LOADED TANDEM PNEUMATIC TIRE DUMP TRUCK MINIMUM GROSS VEHICLE WEIGHT OF 15 TONS. THE TIRES SHALL BE OPERATED AT INFLATION PRESSURES BETWEEN 70-80 PSI UNLESS OTHERWISE NOTED BY THE GEOTECHINICAL ENGINEER. THE TIRES SHALL BE INFLATED WITH AIR ONLY, NO LIQUID SHALL BE USED. THE PROOFROLL SHALL BE COMPLETED UNDER INSPECTION OF SOILS FIRM TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
6. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
7. ALL PROPOSED SPOT ELEVATIONS OR CONTOURS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
8. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
9. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
10. CONTRACTOR TO PERPETUATE ANY SUBSURFACE DRAIN TILES OR PIPES ENCOUNTERED DURING CONSTRUCTION AND PROVIDE POSITIVE OUTLET TO DOWNSTREAM RECEIVING SYSTEM. CONTRACTOR TO NOTIFY THE ENGINEER WITH ANY CIRCUMSTANCES WHERE THIS CANNOT BE ACCOMPLISHED.
11. DUE TO SITE CONSTRAINTS, THE EARTHWORK FOR THE SITE AS DESIGNED MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE EXISTING CONDITIONS AND INCLUDE IN THEIR BID ALL EARTHWORK COSTS INCLUDING IMPORTS AND/OR EXPORTS NECESSARY TO MAKE THE SITE BALANCE.
12. CONTRACTOR TO STABILIZE EXPOSED EARTH AS INDICATED BY THE STORMWATER POLLUTION PREVENTION PLAN OR GOVERNING AUTHORITY.

UTILITY NOTES

1. SITE UTILITIES SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
2. THE EXCAVATING CONTRACTOR MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY CONTRACTORS AND/OR UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH), SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THAT UTILITY COMPANY CAN BE PRESENT TO INSTRUCT AND OBSERVE DURING CONSTRUCTION. SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATIONS OF UTILITIES FOR THEIR OWN WORK.
4. CONTRACTOR TO ADJUST ALL EXISTING SURFACE INFRASTRUCTURE (HYDRANTS, VALVES, HANDHOLES, CASTINGS, IRRIGATION SYSTEM, UTILITY PEDESTALS, ETC.) AS REQUIRED TO MEET PROPOSED GRADE.
5. ALL UTILITY MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS FOR EACH UTILITY AGENCY HAVING JURISDICTION.
6. TRENCHES FOR ALL UTILITY LINES SHALL BE BACKFILLED COMPLETELY WITH SELECT GRANULAR MATERIAL IF THE TOP OF THE TRENCH IS WITHIN 5 FEET OF PAVEMENT.
7. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES AND CONDUITS TO AVOID CONFLICTS AND PROVIDE REQUIRED MINIMUM DEPTHS OF COVER. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL BENDS WITH THRUST BLOCKS REQUIRED TO ASSURE PROPER INSTALLATION OF WATER MAINS AND LATERALS.
8. IN THE EVENT OF A CONFLICT BETWEEN WATER LINES AND STORM DRAINS, THE CONTRACTOR SHALL EITHER ADJUST THE WATER LINE DOWNWARD IN SUCH A MANNER SO THAT THE PIPE MANUFACTURER'S RECOMMENDATIONS ON PIPE DEFLECTION AND JOINT STRESS ARE NOT EXCEEDED OR THE CONTRACTOR SHALL PROVIDE APPROPRIATE BENDS AND CROSSINGS.
9. ALL COORDINATES AND DIMENSIONS ARE TO THE CENTERLINE OF UTILITIES AND STRUCTURES.
10. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH THE TOWN STORMWATER SPECIFICATIONS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE STORMWATER SPECIFICATIONS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STORMWATER SPECIFICATIONS.

EROSION CONTROL NOTES

1. CONTRACTOR SHALL INSTALL ALL PERIMETER SILT FENCE AND SEDIMENT CONTROL BARRIERS PRIOR TO CLEARING AND GRADING.
2. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
3. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
4. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING RE-GRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
5. SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN RECEIVING WATER. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
6. WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
7. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
8. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. THE SITE IS NOT LOCATED WITHIN ANY FLOODPLAIN, FLOODWAY OR FLOODWAY FRINGE AS INDICATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR HANCOCK COUNTY, IN, MAP NUMBER 18059C0106E, DATED MARCH 17, 2014.
11. SCHEDULE OF EARTHWORK ACTIVITIES:
    a. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. UN-VEGETATED AREAS THAT ARE SCHEDULED OR LIKELY TO BE LEFT INACTIVE FOR FIFTEEN (15) DAYS OR MORE MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITH MEASURES APPROPRIATE FOR THE SEASON TO MINIMIZE EROSION POTENTIAL. ALTERNATIVE MEASURES TO SITE STABILIZATION ARE ACCEPTABLE IF THE PROJECT SITE OWNER OR THEIR REPRESENTATIVE CAN DEMONSTRATE THEY HAVE IMPLEMENTED EROSION AND SEDIMENT CONTROL MEASURES ADEQUATE TO PREVENT SEDIMENT DISCHARGE.
    b. TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.
    c. INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED AREAS BEHIND THE CURB.
12. PRIOR TO COMPLETION OF THE PROJECT, CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE STRUCTURES AND RESTORE ALL DITCHES AND PONDS TO DESIGNED GRADES.
13. CONTRACTOR SHALL REMOVE ALL SEDIMENT CONTROL BARRIERS ONCE CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED.
14. ALL PROPOSED EROSION AND SEDIMENT CONTROL SHALL BE IN CONFORMANCE WITH THE TOWN STORMWATER SPECIFICATIONS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE STORMWATER SPECIFICATIONS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE STORMWATER SPECIFICATIONS.
15. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED BY THE INSPECTOR.

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9225 HARRISON PARK COURT
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AMERICAN STRUCTUREPOINT INC.
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JOSHUA H. CRIBELAR
REGISTERED
No. 11800754
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PROFESSIONAL ENGINEER

CERTIFIED BY

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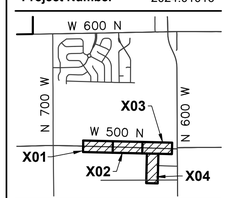

GENERAL NOTES

C002

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PLOT SCALE: 1:2.5848
EDIT DATE: 6/23/2025
EDITED BY: MA YNCH
DRAWING FILE: I:\Indy\SANP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C002 GN.dwg

EARTHWORK:

A. GENERAL

1. EARTHWORK INCLUDES CLEARING, GRUBBING, SUBGRADE PREPARATION, REMOVAL OF TREES AND VEGETATION (INCLUDING STUMPS), PROTECTION OF TREES TO REMAIN, STRIPPING AND STORAGE OF TOPSOIL, FILL COMPACTION AND ROUGH GRADING OF ENTIRE SITE AS INDICATED ON DRAWINGS.
2. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF ANY CHANGES, ERRORS, OR OMISSIONS FOUND ON THE PLANS OR IN THE FIELD, BEFORE WORK IS STARTED OR RESUMED.
3. CONTRACTOR SHALL PROVIDE AND PLACE ANY ADDITIONAL FILL MATERIAL FROM OFF THE SITE AS MAY BE NECESSARY TO PRODUCE THE GRADES REQUIRED AS SHOWN ON THE DRAWINGS. FILL OBTAINED FROM OFF SITE MUST BE SUITABLE SOIL AS DEFINED IN THE SPECIFICATIONS OR AS OTHERWISE APPROVED BY OWNER.
4. THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS CURRENT STATE AND SHALL REMOVE ALL TRASH, RUBBISH, AND DEBRIS FROM THE SITE PRIOR TO STARTING EXCAVATION.
5. EXCEPT FOR STRIPPED TOPSOIL AND OTHER MATERIALS INDICATED TO BE STOCKPILED OR OTHERWISE REMAIN OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM PROJECT SITE.
6. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, DRIVES, FACILITIES, ETC. WITHOUT OWNER PERMISSION OR AUTHORITY HAVING JURISDICTION.
7. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING EARTHWORK AND CLEARING OPERATIONS. EROSION CONTROL MEASURES SHOULD BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION.
8. CONTRACTOR SHALL CAREFULLY MAINTAIN ALL BENCHMARKS, MONUMENTS, AND OTHER REFERENCE POINTS. IF DISTURBED, CONTRACTOR SHALL ENGAGE LICENSED LAND SURVEY FOR REPLACEMENT OF REFERENCE POINTS.
9. WHERE THESE SPECIFICATIONS CONFLICT WITH TOWN STANDARDS, THE STANDARDS OF THE JURISDICTION HAVING AUTHORITY SHALL PREVAIL.

B. MATERIALS

1. CONTRACTOR TO PROVIDE BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM EXCAVATIONS.
2. SATISFACTORY (OR SUITABLE) SOILS: SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM ACCORDING TO ASTM D2487, OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION AND OTHER DELETERIOUS MATERIAL.
3. UNSATISFACTORY (OR UNSUITABLE) SOILS: SOIL CLASSIFICATION GROUPS GC, SC, CL, ML, OL, CH, MH, OH, AND PT ACCORDING TO ASTM D 2487, OR A COMBINATION OF THESE GROUPS. UNSATISFACTORY SOILS ALSO INCLUDES SATISFACTORY SOILS NOT MAINTAINED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.

C. EXECUTION

1. CONTRACTOR SHALL LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP UTILITIES INDICATED TO BE REMOVED OR ABANDONED IN PLACE. DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER UNLESS PERMISSION IS GRANTED. NOTIFY OWNER AT LEAST TWO DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.
2. REMOVE OBSTRUCTIONS, TREES, SHRUBS, AND OTHER VEGETATION AS REQUIRED FOR NEW CONSTRUCTION. STRIP TOPSOIL TO DEPTH AS REQUIRED IN THE FIELD TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS. STOCKPILE TOPSOIL AWAY FROM EXCAVATIONS WITHOUT INTERMIXING WITH SUBSOIL AND GRADE STOCKPILES TO DRAIN SURFACE WATER.
3. REMOVE EXISTING ABOVE AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND NECESSARY TO FACILITATE NEW CONSTRUCTION.
4. PROTECT SUBGRADES AND FOUNDATION SOILS FROM FREEZING TEMPERATURES, FROST, AND PONDING WATER.
5. EXCAVATE TO INDICATED ELEVATIONS AND DIMENSIONS FOR ALL STRUCTURES, WALKS, PAVEMENTS, AND UTILITY TRENCHES.
6. CONTRACTOR SHALL FURNISH AND OPERATE ALL DEWATERING MEASURES REQUIRED TO FACILITATE NEW CONSTRUCTION AND IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
7. PROOF ROLL SUBGRADE BELOW BUILDING PAVEMENTS WITH A PNEUMATIC-TIRED DUMP TRUCK TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF ROLL WET OR SATURATED SUBGRADES. RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURES, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES AS DIRECTED BY ENGINEER OR OWNER REPRESENTATIVE, WITHOUT ADDITIONAL COMPENSATION.
8. BACKFILL ALL UTILITY TRENCHES BENEATH PAVEMENT (AND WITHIN 5') WITH GRANULAR MATERIAL.
9. SOIL FILL: USE SATISFACTORY SOIL MATERIAL UNDER ALL WALKS, PAVEMENTS, STEPS, RAMPS, BUILDING SLABS, FOOTINGS, AND FOUNDATIONS.
10. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL SOIL LAYER BEFORE COMPACTION TO WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT. DO NOT PLACE BACKFILL OR FILL SOIL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST OR ICE. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, OTHERWISE SATISFACTORY SOIL MATERIAL THAT EXCEEDS OPTIMUM MOISTURE CONTENT BY 2 PERCENT AND IS TOO WET TO COMPACT TO SPECIFIED UNIT WEIGHT.
11. COMPACTION OF SOIL BACKFILLS AND FILLS ARE TO BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS. WHERE NO GEOTECHNICAL REPORT EXISTS, COMPACT ALL FILL MATERIAL BELOW STRUCTURES, PAVEMENTS, WALKS, UTILITY TRENCHES AND STEPS (AND WITHIN 5 FEET OF SAID AREAS) TO 95 PERCENT OF THE MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D-1557 (MODIFIED PROCTOR DENSITY). COMPACT ALL FILL MATERIALS BELOW TURF OR UNPAVED AREAS TO 85 PERCENT OF THE MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D-1557 (MODIFIED PROCTOR DENSITY). ALL FILL MATERIALS TO BE COMPACTED IN MAXIMUM 8-INCH LIFTS.
12. SITE ROUGH GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING. FINISH SUBGRADES TO REQUIRED ELEVATIONS WITHIN THE FOLLOWING TOLERANCES:
    - i. TURF OR UNPAVED AREAS: PLUS OR MINUS 1 INCH
    - ii. WALKS: PLUS OR MINUS I/2 INCH.
    - iii. PAVEMENTS: PLUS OR MINUS 1/2 INCH
    - iv. INSIDE BUILDING LINES: FINISH SUBGRADE TO A TOLERANCE OF $\frac{1}{2}$ INCH WHEN TESTED WITH A 10-FOOT STRAIGHTEDGE.
13. QUALITY CONTROL: QUALIFIED GEOTECHNICAL ENGINEER TO BE ENGAGED AS TESTING AGENCY AS DIRECTED BY OWNER.
14. REPAIR AND REESTABLISH GRADES TO SPECIFIED TOLERANCES WHERE COMPLETED OR PARTIALLY COMPLETED SURFACES BECOME ERODED, RUTTED, SETTLED, OR WHERE THEY LOSE COMPACTION DUE TO SUBSEQUENT CONSTRUCTION OPERATIONS OR WEATHER

STORM SEWER:

A. GENERAL

1. STORM SEWER INCLUDES ALL PIPES, FITTINGS, MANHOLES, CLEANOUTS, TRANSITION COUPLINGS, CATCH BASINS, INLETS, END SECTIONS, AND OUTLETS.
2. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF ANY CHANGES, ERRORS, OR OMISSIONS FOUND ON THE PLANS OR IN THE FIELD, BEFORE WORK IS STARTED OR RESUMED.
3. CONTRACTOR SHALL LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP UTILITIES INDICATED TO BE REMOVED OR ABANDONED IN PLACE. DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER UNLESS PERMISSION IS GRANTED. NOTIFY OWNER AT LEAST TWO DAYS IN ADVANCE OF PROPOSED UTILITY INTERRUPTIONS.

B. PRODUCTS

1. CONCRETE PIPE AND FITTINGS: REINFORCED CONCRETE SEWER PIPE AND FITTINGS MEETING ASTM C 76 WITH BELL AND SPIGOT ENDS AND GASKETED JOINTS WITH ASTM C 443 RUBBER GASKETS. PIPE TO BE CLASS III UNLESS OTHERWISE INDICATED ON PLANS.
2. COMPLY WITH ASTM C 1173, ELASTOMERIC SLEEVE-TYPE REDUCING OR TRANSITION COUPLING, FOR JOINTING UNDERGROUND NON-PRESSURE PIPING. INCLUDE ENDS OF SAME SIZES AS PIPING TO BE JOINED, AND CORROSION-RESISTANT METAL TENSION BAND AND TIGHTENING MECHANISM ON EACH END.
3. CLEANOUTS: CAST IRON CLEANOUTS: ASME A112.36.2M ROUND, GRAY-IRON HOUSING WITH CLAMPING DEVICE AND ROUND, SECURED, SCORIATED, GRAY-IRON COVER. HEAVY DUTY TOP LOADING IS REQUIRED. PLASTIC CLEANOUTS: PVC BODY WITH PVC THREADED PLUG.
4. MANHOLES AND CATCH BASINS: STANDARD REINFORCED PRECAST CONCRETE MANHOLES MEETING ASTM C 478. MINIMUM 48-INCH DIAMETER UNLESS OTHERWISE INDICATED. BASE SECTION TO BE MINIMUM 6-INCH THICKNESS AND 4-INCH THICKNESS FOR WALLS AND BASE RISER SECTION. REINFORCED CONCRETE GRADE RINGS, 6-9 INCH TOTAL THICKNESS, TO MATCH DIAMETER OF MANHOLE FRAME AND COVER. MANHOLE FRAMES AND COVERS AS INDICATED ON DRAWINGS. PIPE CONNECTORS SHOULD BE PROVIDED TO MEET ASTM C293, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO THE BASE SECTION.
5. CONCRETE: CAST-IN-PLACE CONCRETE ACCORDING TO ACI 318 AND ACI 350/350R AND IN ACCORDANCE WITH THE FOLLOWING:
    - i. CEMENT: ASTM C 150, TYPE III
    - ii. FINE AGGREGATE: ASTM C 33, SAND
    - iii. COARSE AGGREGATE: ASTM C 33, CRUSHED GRAVEL
    - iv. WATER: POTABLE
6. PORTLAND CEMENT DESIGN MIX: 4,000 PSI MINIMUM WITH 0.45 MAXIMUM WATER/CEMENTIOUS MATERIALS RATIO. REINFORCING FABRIC TO MEET ASTM A 185/A 185M, STEEL, WELDED WIRE FABRIC, PLAIN. REINFORCING BARS TO MEET ASTM A 615/A 615M, GRADE 60 DEFORMED STEEL.
7. MANHOLE CHANNELS TO BE FORMED WITH AN INVERT SLOPE OF 2 PERCENT THROUGH THE MANHOLE AND BENCHES AT 4 PERCENT, SLOPED TO DRAIN INTO CHANNEL.
8. INLETS: PROVIDE INLETS WITH HEAVY DUTY CASTINGS AS SHOWN ON DRAWINGS.
9. OUTLETS: CONCRETE END SECTION SHOULD BE PROVIDED AT ALL PIPE ENDS AND AS INDICATED ON DRAWINGS. RIP RAP APRONS TO BE INSTALLED AT ALL END SECTIONS TO DIMENSIONS INDICATED. AVERAGE RIP-RAP SIZE TO BE 6-INCHES UNLESS OTHERWISE INDICATED ON DRAWINGS.

STORM SEWER (CONT.):

C. EXECUTION

1. INSTALL PIPING BEGINNING AT LOW POINT, TRUE TO GRADES AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. PLACE BELL ENDS OF PIPING FACING UPSTREAM. INSTALL GASKETS, SEALS, SLEEVES, AND OTHER COUPLINGS ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS.
2. WHEN INSTALLING PIPE UNDER STREETS OR OTHER OBSTRUCTIONS THAT CANNOT BE DISTURBED, USE PIPE-JACKING PROCESS OF MICRO-TUNNELING.
3. INSTALL PIPING PITCHED DOWN IN DIRECTION OF FLOW. INSTALL PE CORRUGATED SEWER PIPING IN ACCORDANCE WITH ASTM D 2231. INSTALL PVC PIPING ACCORDING TO ASTM D 2321 AND ASTM F 1668. INSTALL REINFORCED CONCRETE SEWER PIPING IN ACCORDANCE WITH ASTM C 1479 AND ACPA'S "CONCRETE PIPE INSTALLATION MANUAL."
4. PIPE JOINT CONSTRUCTION: JOIN CORRUGATED PE PIPE ACCORDING TO ASTM D 3212 FOR PUSH ON JOINTS. JOIN PVC CORRUGATED SEWER PIPING IN ACCORDANCE WITH ASTM D 2321 FOR ELASTOMERIC-SEAL JOINTS. JOIN REINFORCED CONCRETE PIPE ACCORDING TO ACPA'S "CONCRETE PIPE INSTALLATION MANUAL" FOR RUBBER-GASKETED JOINTS. JON DISSIMILAR PIPE MATERIALS WITH NON-PRESSURE TYPE FLEXIBLE COUPLINGS.
5. CONTRACTOR TO INSPECT INTERIOR OF PIPING AND MANHOLES FOR DEFECTS. DEFECTS REQUIRING CORRECTION INCLUDE THE FOLLOWING:
    - i. ALIGNMENT: LESS THAN FULL DIAMETER OF INSIDE OF PIPE IS VISIBLE BETWEEN STRUCTURES.
    - ii. DEFLECTION: FLEXIBLE PIPING WITH DEFLECTION THAT PREVENTS PASSAGE OF BALL OR CYLINDER OF SIZE NOT LESS THAN 92.5 PERCENT OF PIPING DIAMETER.
    - iii. DAMAGE: CRUSHED, BROKEN, CRACKED, OR OTHERWISE DAMAGED PIPING.
    - iv. INFILTRATION: WATER LEAKAGE INTO PIPING.
    - v. EXFILTRATION: WATER LEAKAGE FROM OR AROUND PIPING
      REPLACE DEFECTIVE PIPING USING NEW MATERIALS, AND REPEAT INSPECTION UNTIL DEFECTS ARE WITHIN ALLOWANCES SPECIFIED.
6. TEST NEW PIPING SYSTEMS, AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, REPAIRED, FOR LEAKS AND DEFECTS. FOR GRAVITY FLOW STORM DRAINAGE PIPING: TEST ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION, UNI-B-6, AND THE FOLLOWING:
    - i. EXCEPTION: PIPING WITH SOILTIGHT JOINTS UNLESS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
    - ii. OPTION: TEST PLASTIC PIPING ACCORDING TO ASTM F 1417
    - iii. OPTION: TEST CONCRETE PIPING ACCORDING TO ASTM C 924
7. SUBMIT TESTING REPORTS AS REQUIRED BY OWNER OR AUTHORITY HAVING JURISDICTION.

ASPHALT PAVING:

A. GENERAL

1. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF ANY CHANGES, ERRORS, OR OMISSIONS FOUND ON THE PLANS OR IN THE FIELD, BEFORE WORK IS STARTED OR RESUMED.
2. USE MATERIALS AND GRADATIONS THAT HAVE PERFORMED SATISFACTORILY IN PREVIOUS INSTALLATIONS.

B. PRODUCTS

1. AGGREGATES
    - i. COURSE AGGREGATE: ASTM D 692/D92M, SOUND; ANGULAR CRUSHED STONE, CRUSHED GRAVEL, OR CURED, CRUSHED BLAST-FURNANCE SLAG.
    - ii. FINE AGGREGATE: ASTM D 1073 OR AASHTO M 29, SHARP-EDGED NATURAL SAND OR SAND PREPARED FROM STONE, GRAVEL, CURED BLAST-FURNANCE SLAG, OR COMBINATIONS THEREOF.
        - a. FOR HOT-MIX ASPHALT, LIMIT NATURAL SAND TO A MAXIMUM OF 20 PERCENT BY WEIGHT OF THE TOTAL AGGREGATE MASS.
    - iii. MINERAL FILLER: ASTM D 242 OR AASHTO M 17, ROCK OR SLAG DUST, HYDRAULIC CEMENT, OR OTHER INERT MATERIAL.
2. ASPHALT MATERIALS
    - i. ASPHALT BINDER: AASHTO M 320, PG 64-22 (OR AS OTHERWISE RECOMMENDED BY INDOT STANDARDS)
    - ii. ASPHALT CEMENT: PER INDOT STANDARDS
    - iii. CUTBACK PRIME COAT: PER INDOT STANDARDS
    - iv. EMULSIFIED ASPHALT PRIME COAT: PER INDOT STANDARDS
    - v. TACK COAT: PER INDOT STANDARDS
    - vi. WATER: POTABLE.
    - vii. UNDERSEALING ASPHALT: ASTM D 3141; PUMPING CONSISTENCY.
3. AUXILIARY MATERIALS
    - i. RECYCLED MATERIALS FOR HOT-MIX ASPHALT MIXES: RECLAIMED ASPHALT PAVEMENT; RECLAIMED, UNBOUND AGGREGATE BASE MATERIAL; AND RECYCLED ASPHALT SHINGLES FROM SOURCES AND GRADATIONS THAT HAVE PERFORMED SATISFACTORILY IN PREVIOUS INSTALLATIONS, EQUAL TO PERFORMANCE OF REQUIRED HOT-MIX ASPHALT PAVING PRODUCED FROM ALL NEW MATERIALS.
    - ii. HERBICIDE: COMMERCIAL CHEMICAL FOR WEED CONTROL, REGISTERED BY THE EPA, AND NOT CLASSIFIED AS "RESTRICTED USE" FOR LOCATIONS AND CONDITIONS OF APPLICATION. PROVIDE IN GRANULAR, LIQUID, OR WETTABLE POWDER FORM.
    - iii. SAND: ASTM D 1073 OR AASHTO M 29, GRADE NO. 2 OR NO. 3.
4. MIXES
    - i. RECYCLED CONTENT OF HOT-MIX ASPHALT: PER INDOT STANDARDS
    - ii. HOT-MIX ASPHALT: DENSE-GRADED, HOT-LAID, HOT-MIX ASPHALT PLANT MIXES APPROVED BY INDOT AND COMPLYING WITH THE FOLLOWING REQUIREMENTS:
        - a. PROVIDE MIXES WITH A HISTORY OF SATISFACTORY PERFORMANCE IN GEOGRAPHICAL AREA WHERE PROJECT IS LOCATED.
        - b. BASE COURSE: 25.0 MM OR 19.0 MM (AS INDICATED ON DRAWINGS)
        - c. SURFACE COURSE: 9.5MM

C. EXECUTION

1. EXAMINATION
    - i. VERIFY THAT SUBGRADE IS DRY AND IN SUITABLE CONDITION TO BEGIN PAVING.
    - ii. PROOF-ROLL SUBGRADE BELOW PAVEMENTS WITH HEAVY PNEUMATIC-TIRED EQUIPMENT TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. DO NOT PROOF-ROLL WET OR SATURATED SUBGRADES. PROOFROLL TO BE PERFORMED BY QUALIFIED GEOTECHNICAL ENGINEER.
        - a. COMPLETELY PROOF-ROLL SUBGRADE IN ONE DIRECTION LIMIT VEHICLE SPEED TO 3 MPH.
        - b. PROOF ROLL WITH A LOADED 10-WHEEL, TANDEM-AXLE DUMP TRUCK WEIGHING NOT LESS THAN 15 TONS
        - c. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY ENGINEER, AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.
        - d. PROCEED WITH PAVING ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. SURFACE PREPARATION
    - i. GENERAL: IMMEDIATELY BEFORE PLACING ASPHALT MATERIALS, REMOVE LOOSE AND DELETERIOUS MATERIAL FROM SUBSTRATE SURFACES. ENSURE THAT PREPARED SUBGRADE IS READY TO RECEIVE PAVING.
    - ii. HERBICIDE TREATMENT: APPLY HERBICIDE ACCORDING TO MANUFACTURER'S RECOMMENDED RATES AND WRITTEN APPLICATION INSTRUCTIONS. APPLY TO DRY, PREPARED SUBGRADE OR SURFACE OF COMPACTED-AGGREGATE BASE BEFORE APPLYING PAVING MATERIALS.
        - a. MIX HERBICIDE WITH PRIME COAT IF FORMULATED BY MANUFACTURER FOR THAT PURPOSE2
    - iii. CUTBACK PRIME COAT: APPLY UNIFORMLY OVER SURFACE OF COMPACTED UNBOUND-AGGREGATE BASE COURSE AT A RATE OF 0.15 TO 0.50 GAL./SQ. YD. APPLY ENOUGH MATERIAL TO PENETRATE AND SEAL, BUT NOT FLOOD, SURFACE. ALLOW PRIME COAT TO CURE.
        - a. IF PRIME COAT IS NOT ENTIRELY ABSORBED WITHIN 24 HOURS AFTER APPLICATION, SPREAD SAND OVER SURFACE TO BLOT EXCESS ASPHALT. USE ENOUGH SAND TO PREVENT PICKUP UNDER TRAFFIC. REMOVE LOOSE SAND BY SWEEPING BEFORE PAVEMENT IS PLACED AND AFTER VOLATILES HAVE EVAPORATED.
        - b. PROTECT PRIMED SUBSTRATE FROM DAMAGE UNTIL READY TO RECEIVE PAVING.
    - iv. TACK COAT: APPLY UNIFORMLY TO SURFACES OF EXISTING PAVEMENT AT A RATE OF 0.05 TO 0.15 GAL./SQ. YD.
        - a. ALLOW TACK COAT TO CURE UNDISTURBED BEFORE APPLYING HOT-MIX ASPHALT PAVING.
        - b. AVOID SMEARING OR STAINING ADJOINING SURFACES, APPURTENANCES, AND SURROUNDINGS. REMOVE SPILLAGES AND CLEAN AFFECTED SURFACES.
3. PLACING HOT-MIX ASPHALT
    - i. MACHINE PLACE HOT-MIX ASPHALT ON PREPARED SURFACE, SPREAD UNIFORMLY, AND STRIKE OFF. PLACE ASPHALT MIX BY HAND IN AREAS INACCESSIBLE TO EQUIPMENT IN A MANNER THAT PREVENTS SEGREGATION OF MIX. PLACE EACH COURSE TO REQUIRED GRADE, CROSS SECTION, AND THICKNESS WHEN COMPACTED.
        - a. PLACE HOT-MIX ASPHALT BASE COURSE IN NUMBER OF LIFTS AND THICKNESSES INDICATED.
        - b. PLACE HOT-MIX ASPHALT SURFACE COURSE IN SINGLE LIFT.
        - c. SPREAD MIX AT A MINIMUM TEMPERATURE OF 250 DEG F
        - d. BEGIN APPLYING MIX ALONG CENTERLINE OF CROWN FOR CROWNED SECTIONS AND ON HIGH SIDE OF ONE-WAY SLOPES UNLESS OTHERWISE INDICATED.
        - e. REGULATE PAVER MACHINE SPEED TO OBTAIN SMOOTH, CONTINUOUS SURFACE FREE OF PULLS AND TEARS IN ASPHALT-PAVING MAT.
    - ii. PLACE PAVING IN CONSECUTIVE STRIPS NOT LESS THAN 10 FEET WIDE UNLESS INFILL EDGE STRIPS OF A LESSER WIDTH ARE REQUIRED.
        - a. AFTER FIRST STRIP HAS BEEN PLACED AND ROLLED, PLACE SUCCEEDING STRIPS AND EXTEND ROLLING TO OVERLAP PREVIOUS STRIPS. OVERLAP MIX PLACEMENT ABOUT 1 TO 1-1/2 INCHES FROM STRIP TO STRIP TO ENSURE PROPER COMPACTION OF MIX ALONG LONGITUDINAL JOINTS.
        - b. COMPLETE A SECTION OF ASPHALT BASE COURSE BEFORE PLACING ASPHALT SURFACE COURSE.
    - iii. PROMPTLY CORRECT SURFACE IRREGULARITIES IN PAVING COURSE BEHIND PAVER. USE SUITABLE HAND TOOLS TO REMOVE EXCESS MATERIAL FORMING HIGH SPOTS. FILL DEPRESSIONS WITH HOT-MIX ASPHALT TO PREVENT SEGREGATION OF MIX; USE SUITABLE HAND TOOLS TO SMOOTH SURFACE.
4. JOINTS
    - i. CONSTRUCT JOINTS TO ENSURE A CONTINUOUS BOND BETWEEN ADJOINING PAVING SECTIONS. CONSTRUCT JOINTS FREE OF DEPRESSIONS, WITH SAME TEXTURE AND SMOOTHNESS AS OTHER SECTIONS OF HOT-MIX ASPHALT COURSE.
        - a. CLEAN CONTACT SURFACES AND APPLY TACK COAT TO JOINTS.
        - b. OFFSET LONGITUDINAL JOINTS, IN SUCCESSIVE COURSES, A MINIMUM OF 6 INCHES
        - c. OFFSET TRANSVERSE JOINTS, IN SUCCESSIVE COURSES, A MINIMUM OF 24 INCHES
        - d. CONSTRUCT TRANSVERSE JOINTS AT EACH POINT WHERE PAVER ENDS A DAY'S WORK AND RESUMES WORK AT A SUBSEQUENT TIME. CONSTRUCT THESE JOINTS USING EITHER "BULKHEAD" OR "PAPERED" METHOD ACCORDING TO AI MS-22, FOR BOTH "ENDING A LANE" AND "RESUMPTION OF PAVING OPERATIONS."
        - e. COMPACT JOINTS AS SOON AS HOT-MIX ASPHALT WILL BEAR ROLLER WEIGHT WITHOUT EXCESSIVE DISPLACEMENT.
        - f. COMPACT ASPHALT AT JOINTS TO A DENSITY WITHIN 2 PERCENT OF SPECIFIED COURSE DENSITY.

ASPHALT PAVING (CONT.):

5. COMPACTION
    - i. GENERAL: BEGIN COMPACTION AS SOON AS PLACED HOT-MIX PAVING WILL BEAR ROLLER WEIGHT WITHOUT EXCESSIVE DISPLACEMENT. COMPACT HOT-MIX PAVING WITH HOT, HAND TAMPERS OR WITH VIBRATORY-PLATE COMPACTORS IN AREAS INACCESSIBLE TO ROLLERS.
        - a. COMPLETE COMPACTION BEFORE MIX TEMPERATURE COOLS TO 185 DEG F
    - ii. BREAKDOWN ROLLING: COMPLETE BREAKDOWN OR INITIAL ROLLING IMMEDIATELY AFTER ROLLING JOINTS AND OUTSIDE EDGE. EXAMINE SURFACE IMMEDIATELY AFTER BREAKDOWN ROLLING FOR INDICATED CROWN, GRADE, AND SMOOTHNESS. CORRECT LAYDOWN AND ROLLING OPERATIONS TO COMPLY WITH REQUIREMENTS.
    - iii. INTERMEDIATE ROLLING: BEGIN INTERMEDIATE ROLLING IMMEDIATELY AFTER BREAKDOWN ROLLING WHILE HOT-MIX ASPHALT IS STILL HOT ENOUGH TO ACHIEVE SPECIFIED DENSITY. CONTINUE ROLLING UNTIL HOT-MIX ASPHALT COURSE HAS BEEN UNIFORMLY COMPACTED TO THE FOLLOWING DENSITY:
        - a. AVERAGE DENSITY: 96 PERCENT OF REFERENCE LABORATORY DENSITY ACCORDING TO ASTM D 6927 OR AASHTO T 245, BUT NOT LESS THAN 94 PERCENT OR GREATER THAN 100 PERCENT.
        - b. AVERAGE DENSITY: 92 PERCENT OF REFERENCE MAXIMUM THEORETICAL DENSITY ACCORDING TO ASTM D 2041, BUT NOT LESS THAN 90 PERCENT OR GREATER THAN 96 PERCENT.
    - iv. FINISH ROLLING: FINISH ROLL PAVED SURFACES TO REMOVE ROLLER MARKS WHILE HOT-MIX ASPHALT IS STILL WARM.
    - v. EDGE SHAPING: WHILE SURFACE IS BEING COMPACTED AND FINISHED, TRIM EDGES OF PAVEMENT TO PROPER ALIGNMENT. BEVEL EDGES WHILE ASPHALT IS STILL HOT; COMPACT THOROUGHLY.
    - vi. REPAIRS: REMOVE PAVED AREAS THAT ARE DEFECTIVE OR CONTAMINATED WITH FOREIGN MATERIALS AND REPLACE WITH FRESH, HOT-MIX ASPHALT. COMPACT BY ROLLING TO SPECIFIED DENSITY AND SURFACE SMOOTHNESS.
    - viil. PROTECTION: AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC ON PAVEMENT UNTIL IT HAS COOLED AND HARDENED.
    - viiil. ERECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME MARKED.
6. INSTALLATION TOLERANCES
    - i. PAVEMENT THICKNESS: COMPACT EACH COURSE TO PRODUCE THE THICKNESS INDICATED WITHIN THE FOLLOWING TOLERANCES:
        - a. BASE COURSE: PLUS OR MINUS 1/2 INCH
        - b. SURFACE COURSE: PLUS 1/4 INCH NO MINUS.
    - ii. PAVEMENT SURFACE SMOOTHNESS: COMPACT EACH COURSE TO PRODUCE A SURFACE SMOOTHNESS WITHIN THE FOLLOWING TOLERANCES AS DETERMINED BY USING A 10-FOOT STRAIGHTEDGE APPLIED TRANSVERSELY OR LONGITUDINALLY TO PAVED AREAS:
        - a. BASE COURSE: 1/4 INCH
        - b. SURFACE COURSE: 1/8 INCH
        - c. CROWNED SURFACES: TEST WITH CROWNED TEMPLATE CENTERED AND AT RIGHT ANGLE TO CROWN. MAXIMUM ALLOWABLE VARIANCE FROM TEMPLATE IS 1/4 INCH
7. FIELD QUALITY CONTROL
    - i. TESTING AGENCY: CONTRACTOR TO ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS.
    - ii. THICKNESS: IN-PLACE COMPACTED THICKNESS OF HOT-MIX ASPHALT COURSES WILL BE DETERMINED ACCORDING TO ASTM D 3549.
    - iii. SURFACE SMOOTHNESS: FINISHED SURFACE OF EACH HOT-MIX ASPHALT COURSE WILL BE TESTED FOR COMPLIANCE WITH SMOOTHNESS TOLERANCES.
    - iv. IN-PLACE DENSITY: TESTING AGENCY WILL TAKE SAMPLES OF UNCOMPACTED PAVING MIXTURES AND COMPACTED PAVEMENT ACCORDING TO ASTM D 979 OR AASHTO T 168.
        - a. REFERENCE MAXIMUM THEORETICAL DENSITY WILL BE DETERMINED BY AVERAGING RESULTS FROM FOUR SAMPLES OF HOT-MIX ASPHALT-PAVING MIXTURE DELIVERED DAILY TO SITE, PREPARED ACCORDING TO ASTM D 2041, AND COMPACTED ACCORDING TO JOB-MIX SPECIFICATIONS.
        - b. IN-PLACE DENSITY OF COMPACTED PAVEMENT WILL BE DETERMINED BY TESTING CORE SAMPLES ACCORDING TO ASTM D 1188 OR ASTM D 2726.
    - v. ONE CORE SAMPLE WILL BE TAKEN FOR EVERY 1000 SQ. YD. OR LESS OF INSTALLED PAVEMENT, WITH NO FEWER THAN THREE CORES TAKEN.
    - vi. FIELD DENSITY OF IN-PLACE COMPACTED PAVEMENT MAY ALSO BE DETERMINED BY NUCLEAR METHOD ACCORDING TO ASTM D 2950 AND CORRELATED WITH ASTM D 1188 OR ASTM D 2726.
    - vii. REPLACE AND COMPACT HOT-MIX ASPHALT WHERE CORE TESTS WERE TAKEN.
    - viii. REMOVE AND REPLACE OR INSTALL ADDITIONAL HOT-MIX ASPHALT WHERE TEST RESULTS OR MEASUREMENTS INDICATE THAT IT DOES NOT COMPLY WITH SPECIFIED REQUIREMENTS.

CONCRETE PAVING:

A. GENERAL

1. CONCRETE PAVING SECTION INCLUDES DRIVEWAYS, ROADWAYS, PARKING LOTS, CURBS AND GUTTERS, WALKS, AND CONCRETE APRONS.
2. ACTION SUBMITTALS
    - i. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
    - ii. OTHER ACTION SUBMITTALS
        - a. DESIGN MIXTURES: FOR EACH CONCRETE PAVING MIXTURE. INCLUDE ALTERNATE DESIGN MIXTURES WHEN CHARACTERISTICS OF MATERIALS PROJECT CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT ADJUSTMENTS.
        - b. MATERIAL TEST REPORTS: FROM A QUALIFIED TESTING AGENCY INDICATING AND INTERPRETING TEST RESULTS FOR COMPLIANCE OF THE FOLLOWING WITH REQUIREMENTS INDICATED, BASED ON COMPREHENSIVE TESTING OF CURRENT MATERIALS.
3. QUALITY ASSURANCE
    - i. READY-MIX-CONCRETE MANUFACTURER QUALIFICATIONS: A FIRM EXPERIENCED IN MANUFACTURING READY-MIXED CONCRETE PRODUCTS AND THAT COMPLIES WITH ASTM C 94/C 94M REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT.
    - ii. ACI PUBLICATIONS: COMPLY WITH ACI 301 (ACI 301M) UNLESS OTHERWISE INDICATED.
    - iii. HANDICAP STANDARDS: PROVIDE RAMPS INDICATED FOR HANDICAP ACCESS IN ACCORDANCE WITH ANSI A117 AND FEDERAL AMERICANS WITH DISABILITIES ACT (ADA).

B. PRODUCTS

1. STEEL REINFORCEMENT
    - i. RECYCLED CONTENT: POST CONSUMER RECYCLED CONTENT PLUS ONE-HALF OF PRECONSUMER RECYCLED CONTENT NOT LESS THAN 25 PERCENT.
    - ii. PLAIN-STEEL WELDED WIRE REINFORCEMENT: ASTM A 185/A 185M, FABRICATED FROM AS-DRAWN STEEL WIRE INTO FLAT SHEETS.
    - iii. DEFORMED-STEEL WELDED WIRE REINFORCEMENT: ASTM A 497/A 497M, FLAT SHEET.
    - iv. REINFORCING BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420); DEFORMED.
    - v. PLAIN-STEEL WIRE: ASTM A 82/A 82M, AS DRAWN.
    - vi. DEFORMED-STEEL WIRE: ASTM A 496/A 496M.
    - vii. DOWEL BARS: ASTM A 615/A 615M, GRADE 60 (GRADE 420) PLAIN-STEEL BARS; ZINC COATED (GALVANIZED) AFTER FABRICATION ACCORDING TO ASTM A 767/A 767M, CLASS I COATING. CUT BARS TRUE TO LENGTH WITH ENDS SQUARE AND FREE OF BURRS.
    - viii. BAR SUPPORTS: BOLSTERS, CHAIRS, SPACERS, AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCING BARS, WELDED WIRE REINFORCEMENT, AND DOWELS IN PLACE. MANUFACTURE BAR SUPPORTS ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE" FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE SPECIFIED.
2. CONCRETE MATERIALS
    - i. CEMENTITIOUS MATERIAL: USE THE FOLLOWING CEMENTITIOUS MATERIALS, OF SAME TYPE, BRAND, AND SOURCE THROUGHOUT PROJECT:
        - a. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.
        - b. FLY ASH: ASTM C 618, CLASS C OR CLASS F.
        - c. GROUND GRANULATED BLAST-FURNACE SLAG: ASTM C 989, GRADE 100 OR 120.
    - ii. NORMAL-WEIGHT AGGREGATES: ASTM C 33,UNIFORMLY GRADED, AND AS FOLLOWS:
        - a. COMBINED AGGREGATE GRADATION: WELL GRADED FROM COARSEST TO FINEST WITH NOT MORE THAN 18 PERCENT AND NOT LESS THAN 8 PERCENT RETAINED ON A INDIVIDUAL SIEVE, EXPECT THAT LESS THAN 8 PERCENT MAY BE RETAINED ON COARSEST SIEVE AND ON NO. 50 SIEVE, AND LESS THAN 8 PERCENT MAY BE RETAINED ON SIEVES FINER THAN NO. 50.
        - b. USE CRUSHED LIMESTONE COARSE AGGREGATE FOR CONCRETE EXPOSED TO WEATHER.
    - iii. WATER: POTABLE AND COMPLYING WITH ASTM C 94/C 94M.
    - iv. AIR-ENTRAINING ADMIXTURE: ASTM C 260.
    - v. CHEMICAL ADMIXTURES: ADMIXTURES CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES AND TO CONTAIN NOT MORE THAN 0.1 PERCENT WATER-SOLUBLE CHLORIDE IONS BY MASS OF CEMENTITIOUS MATERIAL.
    - vi. NOTE: WHERE CLASS A, B, OR C CONCRETE IS REFERENCE IN PLANS OR SPECIFICATIONS, THE CLASS IS AS DEFINED IN ACI 347-04.
3. CURING MATERIALS
    - i. ABSORPTIVE COVER: AASHTO M 182, CLASS 3, BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHING APPROXIMATELY 9 OZ./SQ. YD. (305 G/SQ. M) DRY.
    - ii. MOISTURE-RETAINING COVER: ASTM C 171, POLYETHYLENE FILM OR WHITE BURLAP-POLYETHYLENE SHEET.
    - iii. WATER: POTABLE.
    - iv. EVAPORATION RETARDER: WATERBORNE, MONOMOLECULAR, FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE.
    - v. CLEAR, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, TYPE 1, CLASS B, DISSIPATING.
    - vi. WHITE, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, TYPE 2, CLASS B, DISSIPATING.
4. FIBER REINFORCEMENT
    - i. FIBROUS REINFORCEMENT: 100% VIRGIN HOMOPOLYMER POLYPROPYLENE MULTIFILAMENT FIBERS FOR SECONDARY REINFORCEMENT OF CONCRETE, ASTM C 116, TYPE III. SHALL CONTAIN NO REPROCESSED OLEFIN MATERIALS.
        - a. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING: FIBERMESH 150; PROPEX CONCRETE SYSTEMS CORP., STEALTH FIBER MICRO REINFORCEMENT; SI CONCRETE SYSTEMS, OR APPROVED EQUAL
5. RELATED MATERIALS
    - i. JOINT FILLERS: ASTM D 1751, ASPHALT-SATURATED CELLULOSIC FIBER OR ASTM D 1752, CORK OR SELF-EXPANDING CORK IN PREFORMED STRIPS.
    - ii. PENETRATING ANTI-SPALLING SEALER: THE SEALER SHALL BE A SILANE WATER BASED COMPOUND WHICH HAS A 96% CHLORIDE-ION SCREEN AND A REPELLENCY FACTOR OF 92% WHEN TESTED IN ACCORDANCE WITH NCHRP #244, TEST METHOD. IN ADDITION, THE SEALER-TREATED CONCRETE MUST EXHIBIT NO SCALING WHEN EXPOSED TO 120 CYCLES OF FREEZING-AND-THAWING IN ACCORDANCE WITH ASTM C 672.
        - a. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING: "WEATHER WORKER HEAVY-DUTY WB (J-27 WB)"; DAYTON SUPERIOR CORP., "ENVIROSEAL 20"; HYDROZO INCORP., "PENTANE WB"; L & M CONSTRUCTION CHEMICALS, INC.
6. CONCRETE MIXTURES
    - i. PREPARE DESIGN MIXTURES, PROPORTIONED ACCORDING TO ACI 301 (ACI 301M), WITH THE FOLLOWING PROPERTIES:
        - a. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI (27.6 MPA).

CONCRETE PAVING (CONT.):

        - b. MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO AT POINT OF PLACEMENT: 0.45.
        - c. SLUMP LIMIT: 5 INCHES (125 MM), PLUS OR MINUS 1 INCH (25 MM).
        - d. AIR CONTENT: 6.5 PERCENT PLUS OR MINUS 1.5 PERCENT.
    - ii. CHEMICAL ADMIXTURES: USE ADMIXTURES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
7. CONCRETE MIXING
    - i. READY-MIXED CONCRETE: MEASURE, BATCH, AND MIX CONCRETE MATERIALS AND CONCRETE ACCORDING TO ASTM C 94/C 94M. FURNISH BATCH CERTIFICATES FOR EACH BATCH DISCHARGED AND USED IN THE WORK.

B. EXECUTION

1. EXAMINATION AND PREPARATION
    - i. PROOF-ROLL PREPARED SUBBASE SURFACE BELOW CONCRETE PAVING TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING.
    - ii. REMOVE LOOSE MATERIAL FROM COMPACTED SUBBASE SURFACE IMMEDIATELY BEFORE PLACING CONCRETE.
2. EDGE FORMS AND SCREED CONSTRUCTION
    - i. SET, BRACE, AND SECURE EDGE FORMS, BULKHEADS, AND INTERMEDIATE SCREED GUIDES TO REQUIRED LINES, GRADES, AND ELEVATIONS. INSTALL FORMS TO ALLOW CONTINUOUS PROGRESS OF WORK AND SO FORMS CAN REMAIN IN PLACE AT LEAST 24 HOURS AFTER CONCRETE PLACEMENT.
    - ii. CLEAN FORMS AFTER EACH USE AND COAT WITH FORM-RELEASE AGENT TO ENSURE SEPARATION FROM CONCRETE WITHOUT DAMAGE.
3. STEEL REINFORCEMENT
    - i. GENERAL: COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT.
4. JOINTS
    - i. GENERAL: FORM CONSTRUCTION, ISOLATION, AND CONTRACTION JOINTS AND TOOL EDGES TRUE TO LINE, WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE UNLESS OTHERWISE INDICATED.
    - ii. CONSTRUCTION JOINTS: SET CONSTRUCTION JOINTS AT SIDE AND END TERMINATIONS OF PAVING AND AT LOCATIONS WHERE PAVING OPERATIONS ARE STOPPED FOR MORE THAN ONE-HALF HOUR UNLESS PAVING TERMINATES AT ISOLATION JOINTS.
    - iii. ISOLATION JOINTS: FORM ISOLATION JOINTS OF PREFORMED JOINT-FILLER STRIPS ABUTTING CONCRETE CURBS, CATCH BASINS, MANHOLES, INLETS, STRUCTURES, OTHER FIXED OBJECTS, AND WHERE INDICATED.
    - iv. CONTRACTION JOINTS: FORM WEAKENED-PLANE CONTRACTION JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTRACTION JOINTS FOR A DEPTH EQUAL TO AT LEAST ONE-FOURTH OF THE CONCRETE THICKNESS.
    - v. EDGING: AFTER INITIAL FLOATING, TOOL EDGES OF PAVING, GUTTERS, CURBS, AND JOINTS IN CONCRETE WITH AN EDGING TOOL TO A 1/4-INCH (6-MM) RADIUS. REPEAT TOOLING OF EDGES AFTER APPLYING SURFACE FINISHES. ELIMINATE EDGING-TOOL MARKS ON CONCRETE SURFACES.
5. CONCRETE PLACEMENT
    - i. MOISTEN SUBBASE TO PROVIDE A UNIFORM DAMPENED CONDITION AT TIME CONCRETE IS PLACED.
    - ii. COMPLY WITH ACI 301 (ACI 301M) REQUIREMENTS FOR MEASURING, MIXING, TRANSPORTING, PLACING, AND CONSOLIDATING CONCRETE.
    - iii. DEPOSIT AND SPREAD CONCRETE IN A CONTINUOUS OPERATION BETWEEN TRANSVERSE JOINTS. DO NOT PUSH OR DRAG CONCRETE INTO PLACE OR USE VIBRATORS TO MOVE CONCRETE INTO PLACE.
    - iv. SCREED PAVING SURFACE WITH A STRAIGHTEDGE AND STRIKE OFF.
    - v. COMMENCE INITIAL FLOATING USING BULL FLOATS OR DARBIES TO IMPART AN OPEN-TEXTURED AND UNIFORM SURFACE PLANE BEFORE EXCESS MOISTURE OR BLEED WATER APPEARS ON THE SURFACE. DO NOT FURTHER DISTURB CONCRETE SURFACES BEFORE BEGINNING FINISHING OPERATIONS OR SPREADING SURFACE TREATMENTS.
6. CONCRETE PROTECTION AND CURING
    - i. GENERAL: PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES.
    - ii. COMPLY WITH ACI 306.1 FOR COLD-WEATHER PROTECTION.
    - iii. EVAPORATION RETARDER: APPLY EVAPORATION RETARDER TO CONCRETE SURFACES IF HOT, DRY, OR WINDY CONDITIONS CAUSE MOISTURE LOSS APPROACHING 0.2 LB/SQ. FT. X H (1 KG/SQ. M X H) BEFORE AND DURING FINISHING OPERATIONS. APPLY ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AFTER PLACING, SCREEDING, AND BULL FLOATING OR DARBYING CONCRETE BUT BEFORE FLOAT FINISHING.
    - iv. BEGIN CURING AFTER FINISHING CONCRETE BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE.
    - v. CURING METHODS: CURE CONCRETE BY MOISTURE CURING, MOISTURE-RETAINING-COVER CURING, CURING COMPOUND, OR A COMBINATION OF THESE.
    - vi. PENETRATING, ANTI-SPALLING SEALER TREATMENT: APPLY COMPOUNDS TO CLEAN, DRY CONCRETE SURFACES FREE OF OIL, DIRT, AND OTHER FOREIGN MATERIAL ACCORDING TO MANUFACTURER'S SPECIFICATIONS. SEALER TO BE APPLIED TO ALL EXTERIOR CONCRETE PAVING AND CURBS AFTER CONCRETE HAS CURED 28 DAYS.
7. PAVING TOLERANCES
    - i. COMPLY WITH TOLERANCES IN ACI 117 AND AS FOLLOWS:
        - a. ELEVATION: 3/4 INCH (19 MM).
        - b. THICKNESS: PLUS 3/8 INCH (10 MM), MINUS 1/4 INCH (6 MM).
        - c. SURFACE: GAP BELOW 10-FOOT- (3-M-) LONG, UNLEVELED STRAIGHTEDGE NOT TO EXCEED 1/2 INCH (13 MM).
        - d. JOINT SPACING: 3 INCHES (75 MM).
        - e. CONTRACTION JOINT DEPTH: PLUS 1/4 INCH (6 MM), NO MINUS.
        - f. JOINT WIDTH: PLUS 1/8 INCH (3 MM), NO MINUS.
    - ii. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE MARKINGS OF DIMENSIONS INDICATED WITH UNIFORM, STRAIGHT EDGES. APPLY AT MANUFACTURER'S RECOMMENDED RATES TO PROVIDE A MINIMUM WET FILM THICKNESS OF 15 MILS (0.4 MM).
8. REPAIRS AND PROTECTION
    - i. REMOVE AND REPLACE CONCRETE PAVING THAT IS BROKEN, DAMAGED, OR DEFECTIVE OR THAT DOES NOT COMPLY WITH REQUIREMENTS IN THIS SECTION. REMOVE WORK IN COMPLETE SECTIONS FROM JOINT TO JOINT UNLESS OTHERWISE APPROVED BY ENGINEER.
    - ii. PROTECT CONCRETE PAVING FROM DAMAGE. EXCLUDE TRAFFIC FROM PAVING FOR AT LEAST 14 DAYS AFTER PLACEMENT. WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN PAVING AS CLEAN AS POSSIBLE BY REMOVING SURFACE STAINS AND SPILLAGE OF MATERIALS AS THEY OCCUR.
    - iii. MAINTAIN CONCRETE PAVING FREE OF STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIAL. SWEEP PAVING NOT MORE THAN TWO DAYS BEFORE DATE SCHEDULED FOR SUBSTANTIAL COMPLETION INSPECTIONS.

DEMOLITION:

A. GENERAL

THE CONTRACTOR SHALL REMOVE AND DISPOSE OFF SITE, ALL EXISTING STRUCTURES, FENCES, CONCRETE AND PAVEMENT ON SITE, UNLESS NOTED TO REMAIN ON THE CONTRACT DRAWINGS.

THE CONTRACTOR SHALL PROTECT AND NOT DESTROY PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.

B. SUMMARY

THIS SECTION REQUIRES REMOVAL AND DISPOSAL, OFF SITE, OF THE FOLLOWING:
1. ASPHALT PARKING LOT.
2. MISCELLANEOUS CONCRETE, STORM SEWER, PLANT MATERIAL, UNDERGROUND CONDUITS, SITE LIGHTS, ETC., LOCATED ON SITE.

C. SUBMITTALS

SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 1 SPECIFICATION SECTIONS.
1. A PROPOSED SCHEDULE OF OPERATIONS COORDINATION FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
2. PROVIDE A DETAILED SEQUENCE AND SCHEDULE OF DEMOLITION AND REMOVAL WORK TO BE COMPLETED.

D. JOB CONDITIONS

9. SALVAGED MATERIALS: ITEMS OF SALVAGEABLE VALUE TO CONTRACTOR MAY BE REMOVED FROM STRUCTURE AS WORK PROGRESSES. TRANSPORT SALVAGED ITEMS FROM THE SITE AS THEY ARE REMOVED.
    - i. STORAGE OR SALE OF REMOVED ITEMS WILL NOT BE PERMITTED ON SITE.
10. EXPLOSIVES: USE OF ANY TYPE OF EXPLOSIVES WILL NOT BE PERMITTED.
11. TRAFFIC: CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
    - i. DO NOT CLOSE OR OBSTRUCT ROADS, STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM THE LOCAL AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY GOVERNING AUTHORITIES.
12. PROTECTIONS: ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT DAMAGE TO ADJACENT BUILDINGS, STRUCTURES, AND OTHER FACILITIES AND INJURY TO PERSONS.
13. DAMAGES: PROMPTLY REPAIR ANY DAMAGES CAUSED TO ADJACENT FACILITIES BY DEMOLITION OPERATIONS.
14. UTILITY SERVICES: MAINTAIN EXISTING UTILITIES TO STAY IN SERVICE AND PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS. DISCONNECT, CAP AND REMOVE UTILITY SERVICES PER LOCAL REQUIREMENTS. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTIONS HAVE BEEN COMPLETED TO THE SATISFACTION OF LOCAL UTILITIES.

E. DEMOLITION

1. BELOW-GRADE CONSTRUCTION: DEMOLISH FOUNDATION WALLS AND OTHER BELOW-GRADE CONSTRUCTION, INCLUDING CONCRETE SLABS, TO A DEPTH OF NOT LESS THAN 48 INCHES BELOW LOWEST FOUNDATION LEVEL.
2. FILLING VOIDS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM DEMOLITION STRUCTURES.

F. DISPOSAL OF DEMOLISHED MATERIALS

1. GENERAL: REMOVE WEEKLY FROM SITE ACCUMULATED DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
2. REMOVAL: TRANSPORT MATERIALS REMOVED FROM DEMOLITION OPERATIONS AND LEGALLY DISPOSE OF OFF-SITE.

WATER:

A. ALL WATER MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH CITIZENS ENERGY GROUP STANDARDS AND SPECIFICATIONS, LATEST EDITION.

SANITARY:

A. ALL SANITARY MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH AQUA INDIANA STANDARDS AND SPECIFICATIONS, LATEST EDITION.

ARBOR HOMES

ARBOR HOMES
9225 HARRISON PARK COURT
INDIANAPOLIS, IN 46216

AMERICAN STRUCTUREPOINT INC.
9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

CLAYBORNE OFFSITE UTILITIES CONSTRUCTION DOCUMENTS

N CR 700 W & W CR 500 N
MCCORDSVILLE, INDIANA

JOSHUA H. CRIBELAR
No. 11800754

Joshua H. Cribelar
CERTIFIED BY

ISSUANCE INDEX
DATE:
08/22/2025
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

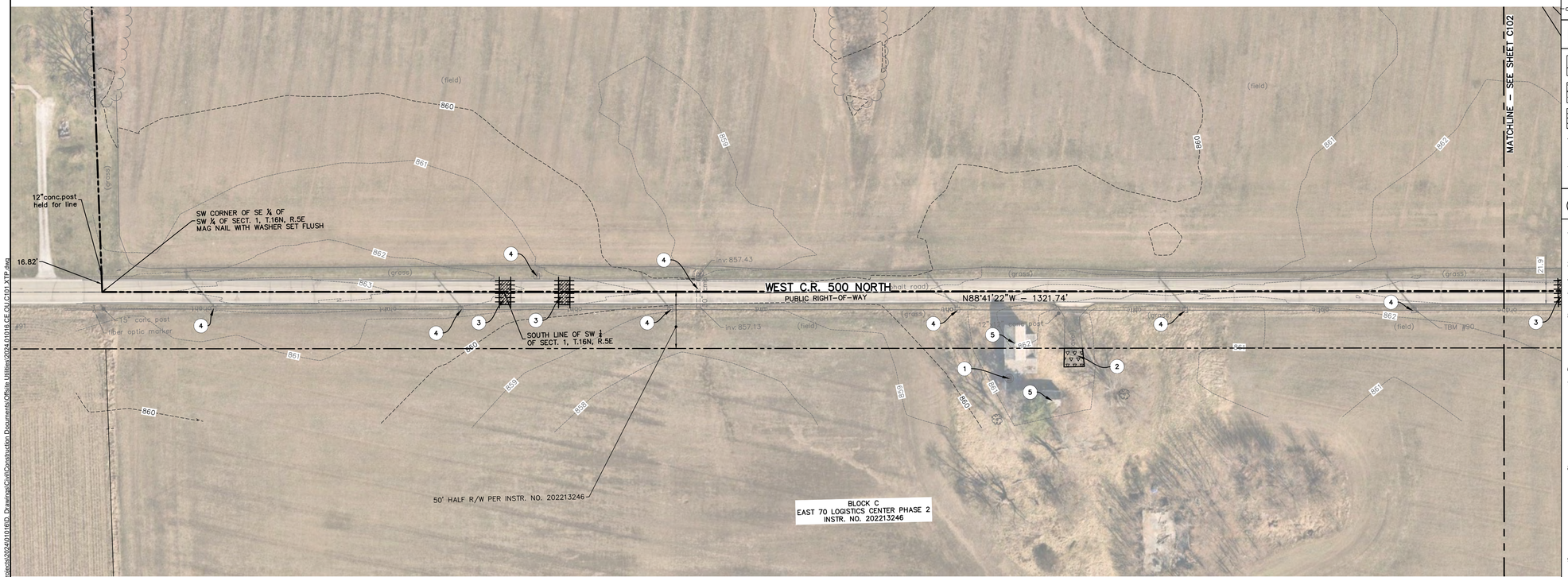
NO.	DESCRIPTION	DATE

Project Number 2024.01016

SPECIFICATIONS

C003

PLOT DATE: 8/14/2025 5:01 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/11/2025
EDITED BY: IMEHBOOB
DRAWING FILE: \\IndySANP\Projects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016.CE.OU.C003.SPECS.dwg



0' 50' 100'

SCALE: 1"=50'

EXISTING LEGEND

Pine Tree	Air Conditioner
Sanitary MH	Clean Out
Sign	Combination Pole
Stand Pipe	Curb Inlet
Stump	Down Spout
Telephone Cross Box	Drainage Inlet
Telephone Handhole	Drainage MH
Telephone Marker	Electric Box
Telephone MH	Electric Handhole
Telephone Pedestal	Electric Meter Box
Traffic Handhole	Electric Pedestal
Transformer	Fire Hydrant
Tree	Gas Meter
Water Meter	Gas Valve
Water Valve	Ground Light
Buried Electric Line	Guard Post
Buried Gas Line	Guy Wire
Buried Telephone Line	Lid
Buried Water Line	Light Pole
Overhead Electric Line	Mail Box

DEMOLITION LEGEND

- EXISTING ASPHALT AND BASE TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- TREES/BRUSH TO BE REMOVED
- PAVEMENT SAWCUT
- EXISTING UTILITY TO BE REMOVED

KEYNOTES

1. EXISTING WATER WELL TO BE REMOVED. CONTRACTOR TO COORDINATE CAP EXISTING WELL PER ENVIRONMENTAL REQUIREMENTS.
2. EXISTING GRAVEL TO BE REMOVED.
3. EXISTING ASPHALT AND BASE TO BE REMOVED.
4. EXISTING UTILITY TO BE PROTECTED THROUGHOUT CONSTRUCTION.
5. EXISTING HOUSE AND OUTBUILDINGS TO BE DEMOLISHED. CONTRACTOR TO COORDINATE UTILITY SHUTOFFS PRIOR TO CONSTRUCTION. ALL FOUNDATIONS AND FOOTINGS TO BE REMOVED. BACKFILL TO MATCH EXISTING SURROUNDING GRADE.
6. EXISTING TREES/BRUSH TO BE REMOVED.
7. EXISTING UNDERGROUND UTILITY TO BE PROTECTED THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO POTHOLE UTILITY AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION TO VERIFY DEPTH, SIZE, AND LOCATION. CONTRACTOR TO NOTIFY OWNER AND ENGINEER OF CONFLICT IMMEDIATELY. EXISTING GRADE OVER UNDERGROUND LINES IS TO REMAIN UNCHANGED THROUGHOUT CONSTRUCTION.
8. EXISTING FIELD TILE OR SUMP PUMP LATERAL TO BE LOCATED BY CONTRACTOR PRIOR TO CONSTRUCTION. ELEVATION AND SIZE TO BE PROVIDED TO OWNER AND ENGINEER. EXISTING FIELD TILE OR SUMP PUMP LATERAL TO BE CONNECTED TO PROPOSED STORM SEWER OR PROPOSED UNDERDRAIN IF SMALLER THAN 6". ANY ADDITIONAL FIELD TILES OR SUMP PUMP LATERALS FOUND DURING CONSTRUCTION ARE TO BE CONNECTED TO PROPOSED STORM SEWER.
9. EXISTING STORM SEWER MANHOLE AND CASTING TO BE REPLACED.
10. EXISTING 36" RCP ALONG WITH END SECTION TO BE REMOVED.

BENCHMARK DATA

(NAVD 88 DATUM)

BENCHMARK ELEVATIONS WERE ESTABLISHED FROM PREVIOUS JOB (2020.00092) FROM TBM #53. THE ELEVATIONS WERE THEN TRANSFERRED TO THE SITE USING DIFFERENTIAL LEVELING.

TBM #90
A MAG SPIKE IN THE NORTHEAST FACE OF A POWERPOLE (12277) LOCATED 170± WEST OF A STONE DRIVE AND 15± SOUTH OF THE CENTERLINE OF COUNTY ROAD W 500 N
ELEV: 864.06'

TBM #91
A MAG SPIKE IN THE NORTH FACE OF A POWERPOLE (12283) LOCATED 140'± SOUTH OF A 6758 W 500 N RESIDENCE
ELEV: 863.24'

TBM #92
A MAG SPIKE IN THE WEST FACE OF A POWERPOLE (12195) LOCATED 106'± SOUTHWEST OF 5612 N PEPPEREEL WAY RESIDENCE AND 38'± EAST OF THE CENTERLINE OF COUNTY ROAD N 700 W.
ELEV: 867.76'

TBM #93
A MAG SPIKE IN THE WEST FACE OF A POWERPOLE (12199) LOCATED 16'± EAST OF THE CENTERLINE OF COUNTY ROAD N 700 W.
ELEV: 865.53'

TBM #94
A MAG SPIKE IN THE WEST FACE OF A POWERPOLE (12204) LOCATED 110'± SOUTHWEST OF 5299 N 700 W RESIDENCE AND 16'± EAST OF THE CENTERLINE OF COUNTY ROAD N 700 W.
ELEV: 866.55'

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT & NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE & DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CALL TOLL FREE "811" OR 1-800-382-5544
– INDIANA UNDERGROUND –

ARBOR HOMES
9225 HARRISON PARK COURT
INDIANAPOLIS, IN 46216

AMERICAN STRUCTUREPOINT INC.
9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

CLAYBORNE OFFSITE UTILITIES CONSTRUCTION DOCUMENTS

N CR 700 W & W CR 500 N
MCCORDSVILLE, INDIANA

JOSHUA H. CRIBELAR
REGISTERED
No. 11800754
STATE OF INDIANA
PROFESSIONAL ENGINEER

Joshua H. Cribelar
CERTIFIED BY

ISSUANCE INDEX
DATE:
08/22/2025
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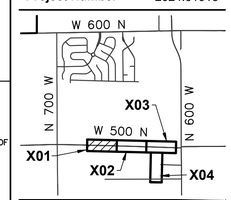
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

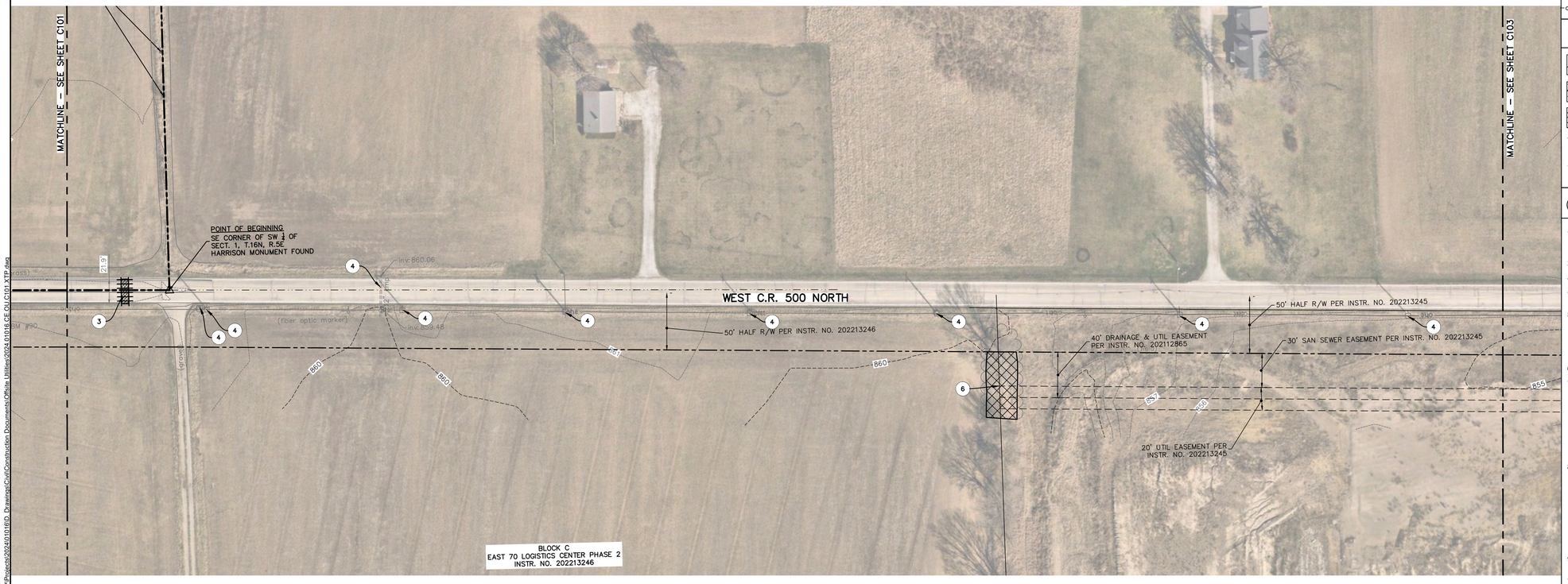
Project Number 2024.01016



EXISTING CONDITIONS & DEMOLITION PLAN

C101

PLOT DATE: 8/22/2025 10:18 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/21/2025
EDITED BY: MLYNCH
DRAWING FILE: Utils\SANP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C101.XTP.dwg



0' 50' 100'

SCALE: 1"=50'

EXISTING LEGEND

Pine Tree	Air Conditioner
Sanitary MH	Clean Out
Sign	Combination Pole
Stand Pipe	Curb Inlet
Stump	Down Spout
Telephone Cross Box	Drainage Inlet
Telephone Handhole	Drainage MH
Telephone Marker	Electric Box
Telephone MH	Electric Handhole
Telephone Pedestal	Electric Meter Box
Traffic Handhole	Electric Pedestal
Transformer	Fire Hydrant
Tree	Gas Meter
Water Meter	Gas Valve
Water Valve	Ground Light
Buried Electric Line	Guard Post
Buried Gas Line	Guy Wire
Buried Telephone Line	Lid
Buried Water Line	Light Pole
Overhead Electric Line	Mail Box

DEMOLITION LEGEND

- EXISTING ASPHALT AND BASE TO BE REMOVED
- EXISTING GRAVEL TO BE REMOVED
- TREES/BRUSH TO BE REMOVED
- PAVEMENT SAWCUT
- EXISTING UTILITY TO BE REMOVED

KEYNOTES

1. EXISTING WATER WELL TO BE REMOVED. CONTRACTOR TO COORDINATE CAP EXISTING WELL PER ENVIRONMENTAL REQUIREMENTS.
2. EXISTING GRAVEL TO BE REMOVED.
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4. EXISTING UTILITY TO BE PROTECTED THROUGHOUT CONSTRUCTION.
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7. EXISTING UNDERGROUND UTILITY TO BE PROTECTED THROUGHOUT DURATION OF CONSTRUCTION. CONTRACTOR TO POTHOLE UTILITY AT CROSSING LOCATIONS PRIOR TO CONSTRUCTION TO VERIFY DEPTH, SIZE, AND LOCATION. CONTRACTOR TO NOTIFY OWNER AND ENGINEER OF CONFLICT IMMEDIATELY. EXISTING GRADE OVER UNDERGROUND LINES IS TO REMAIN UNCHANGED THROUGHOUT CONSTRUCTION.
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9. EXISTING STORM SEWER MANHOLE AND CASTING TO BE REPLACED.
10. EXISTING 36" RCP ALONG WITH END SECTION TO BE REMOVED.

BENCHMARK DATA

(NAVD 88 DATUM)

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TBM #90
A MAG SPIKE IN THE NORTHEAST FACE OF A POWERPOLE (12277) LOCATED 170± WEST OF A STONE DRIVE AND 15± SOUTH OF THE CENTERLINE OF COUNTY ROAD W 500 N
ELEV: 864.06'

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A MAG SPIKE IN THE NORTH FACE OF A POWERPOLE (12283) LOCATED 140'± SOUTH OF A 6758 W 500 N RESIDENCE
ELEV: 863.24'

TBM #92
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TBM #94
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ELEV: 866.55'

GENERAL NOTES:

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3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

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CLAYBORNE OFFSITE UTILITIES CONSTRUCTION DOCUMENTS

N CR 700 W & W CR 500 N
MCCORDSVILLE, INDIANA

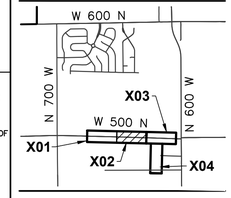
JOSHUA H. CRIBBLER
REGISTERED
No. 11800754
STATE OF INDIANA
PROFESSIONAL ENGINEER

Joshua H. Cribbler
CERTIFIED BY

ISSUANCE INDEX
DATE:
08/22/2025
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2024.01016



EXISTING CONDITIONS & DEMOLITION PLAN

C102

PLOT DATE: 8/22/2025 10:18 AM
PLOT SCALE: 1:2.3849
EDIT DATE: 8/21/2025
EDITED BY: MLYNCH
DRAWING FILE: \\nas\SANProjects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 C102 EXISTING CONDITIONS & DEMOLITION PLAN.dwg

0' 50' 100'

SCALE: 1"=50'

EXISTING LEGEND

Pine Tree	Air Conditioner
Sanitary MH	Clean Out
Sign	Combination Pole
Stand Pipe	Curb Inlet
Stump	Down Spout
Telephone Cross Box	Drainage Inlet
Telephone Handhole	Drainage MH
Telephone Marker	Electric Box
Telephone MH	Electric Handhole
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Tree	Gas Meter
Water Meter	Gas Valve
Water Valve	Ground Light
Buried Electric Line	Guard Post
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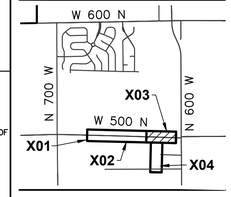
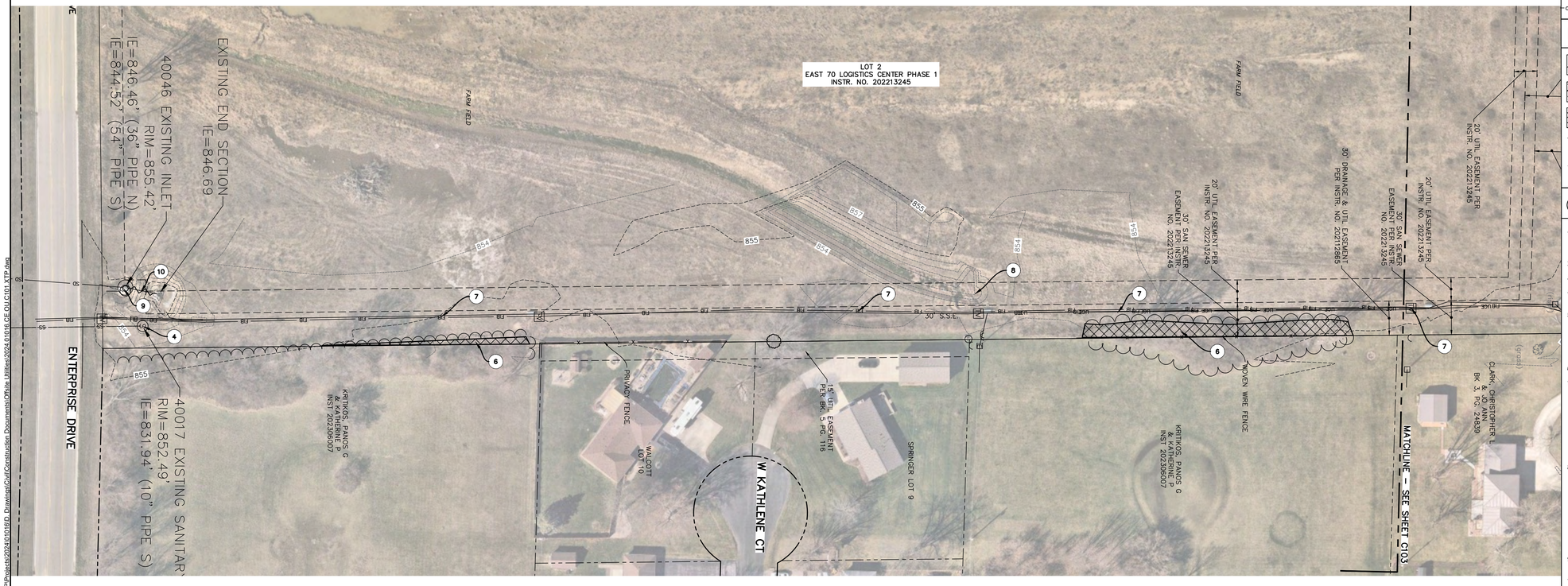


EXISTING CONDITIONS & DEMOLITION PLAN

C103

PLOT DATE: 8/22/2025 10:18 AM
PLOT SCALE: 1:2.3849
EDIT DATE: 8/21/2025
EDITED BY: MLYNCH
DRAWING FILE: \\Indy\SANP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 OE OU C101 XTP.dwg



EXISTING LEGEND

Pine Tree	Air Conditioner
Sanitary MH	Clean Out
Sign	Combination Pole
Stand Pipe	Curb Inlet
Stump	Down Spout
Telephone Cross Box	Drainage Inlet
Telephone Handhole	Drainage MH
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CERTIFIED BY

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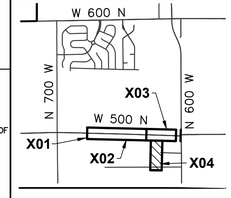
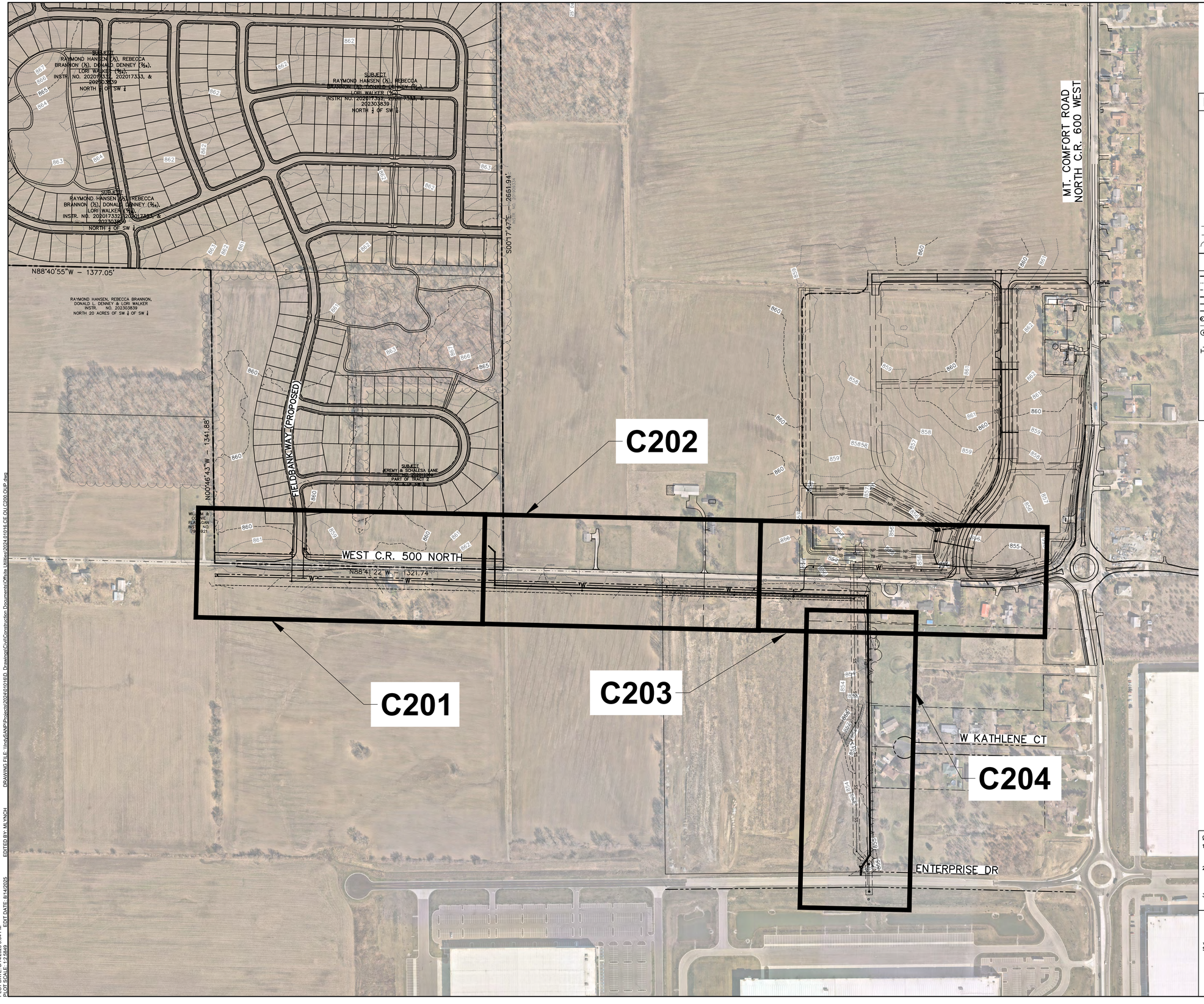


EXISTING CONDITIONS & DEMOLITION PLAN

C104

PLOT DATE: 8/22/2025 10:18 AM
PLOT SCALE: 1:2.3849
EDIT DATE: 8/21/2025
EDITED BY: MLYNCH
DRAWING FILE: \\Indy\SANP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C101 XTP.dwg



0' 200' 400'
SCALE: 1"=200'

EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
- –oht– Overhead Telephone Line
- Edge of Trees

PROPOSED LEGEND

- RIGHT-OF-WAY (R/W) LINE
- BUILDING SETBACK LINE
- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- W WATER MAIN
- SS SANITARY MAIN
- SD SUBSURFACE UNDERDRAIN
- STORM SEWER
- FIRE HYDRANT & WATER VALVE
- WATER TEE, CROSS & BEND
- R/W RIGHT-OF-WAY
- D.I. DUCTILE IRON
- S.S.E. SANITARY SEWER EASEMENT
- PVC POLYVINYL CHLORIDE PIPE
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- D.U.&S.E. DRAINAGE, UTILITY & SANITARY ESMT.
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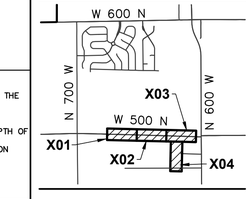
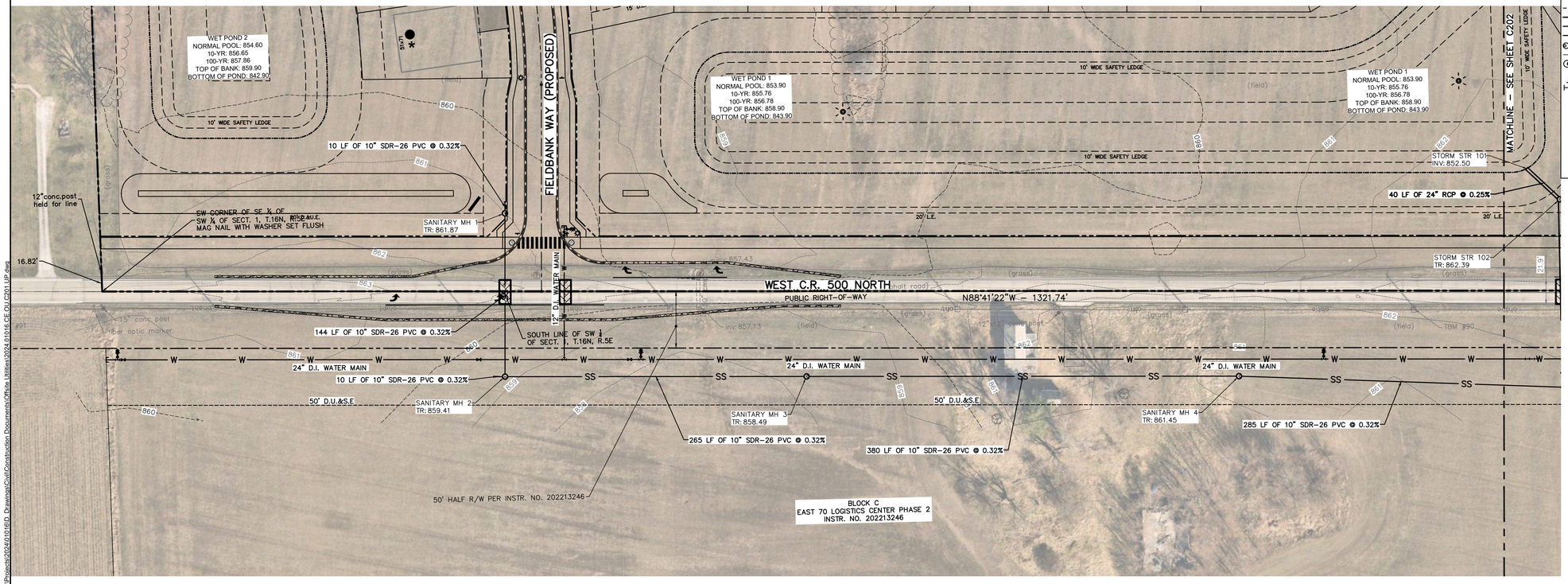


OVERALL UTILITY PLAN

C200

PLOT DATE: 8/14/2025 5:04 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/14/2025
EDITED BY: MLYNCH
DRAWING FILE: \\nds\SANP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\20241016 CE OU C200 OUP.dwg



0' 50' 100'

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EXISTING LEGEND

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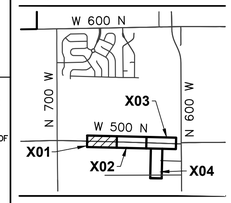
NO.	DESCRIPTION	DATE

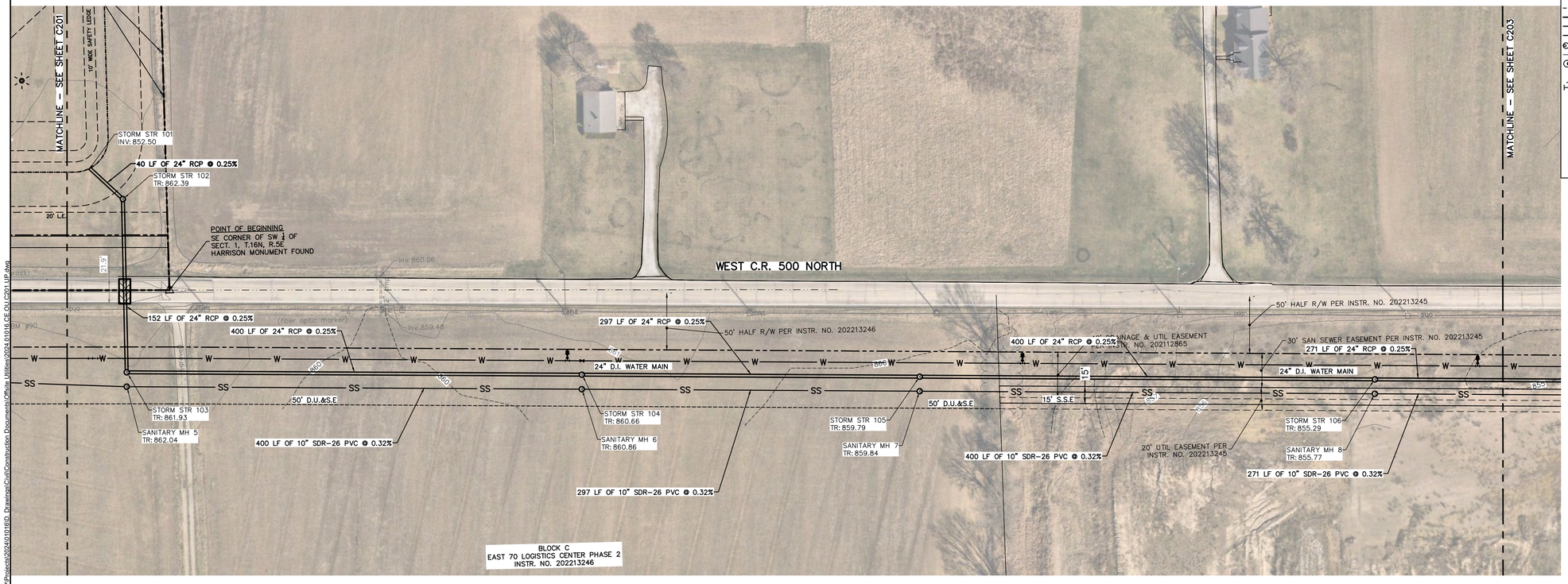
Project Number 2024.01016



UTILITY PLAN

C201

PLOT DATE: 8/22/2025 10:19 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/21/2025
EDITED BY: MLYNCH
DRAWING FILE: \\nas\SANP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024 01016 CE OU C201 UP.dwg



0' 50' 100'

SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
- –oht– Overhead Telephone Line
- Edge of Trees

PROPOSED LEGEND

- RIGHT–OF–WAY (R/W) LINE
- BUILDING SETBACK LINE
- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- W WATER MAIN
- SS SANITARY MAIN
- SD SUBSURFACE UNDERDRAIN
- STORM SEWER
- FIRE HYDRANT & WATER VALVE
- WATER TEE, CROSS & BEND
- R/W RIGHT–OF–WAY
- D.I. DUCTILE IRON
- S.S.E. SANITARY SEWER EASEMENT
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- D.U.&S.E. DRAINAGE, UTILITY & SANITARY ESMT.
- ROAD CUT PATCH

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT & NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE & DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

!! CAUTION !!

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CALL TOLL FREE "811" OR 1–800–382–5544
– INDIANA UNDERGROUND –

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INDIANAPOLIS, IN 46216

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9025 River Road, Suite 200 | Indianapolis, Indiana 46240
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CLAYBORNE OFFSITE UTILITIES CONSTRUCTION DOCUMENTS

N CR 700 W & W CR 500 N
MCCORDSVILLE, INDIANA

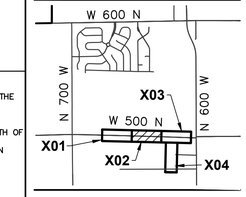
JOSHUA H. CRIBELAR
REGISTERED
No. 11800754
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

ISSUANCE INDEX
DATE:
08/22/2025
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

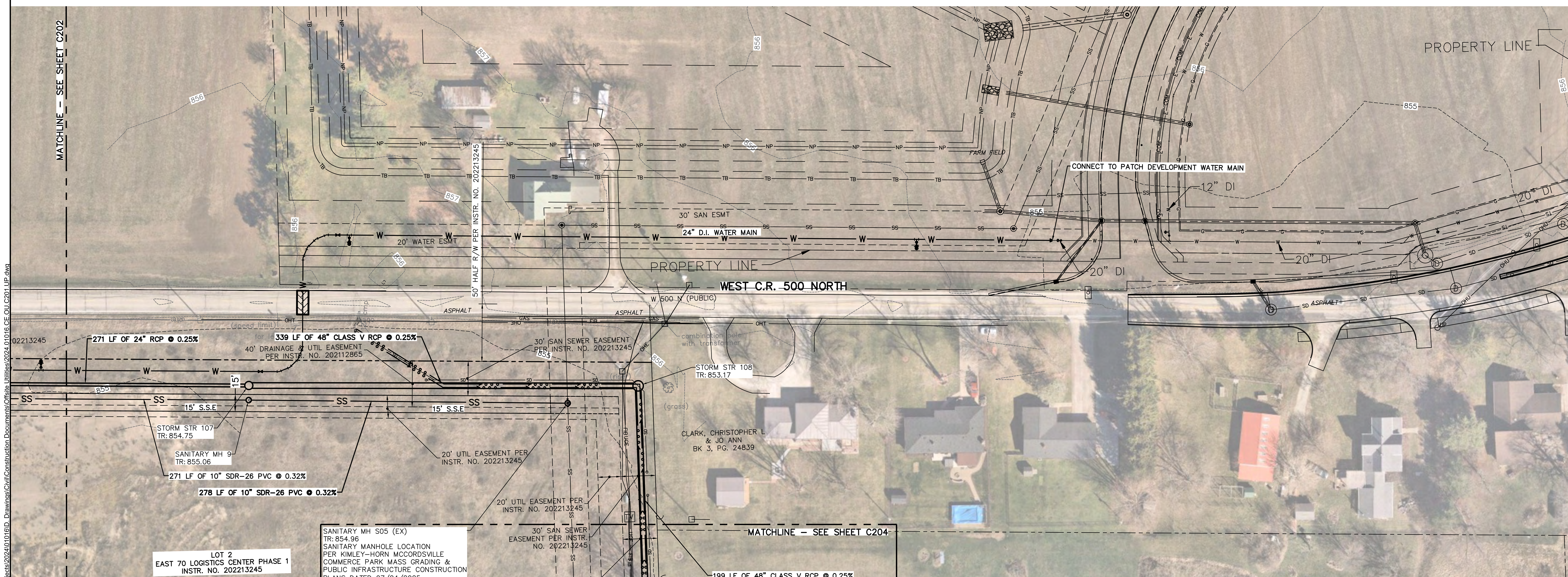
Project Number 2024.01016



UTILITY PLAN

C202

PLOT DATE: 8/22/2025 10:19 AM
PLOT SCALE: 1:2.3849
EDIT DATE: 8/21/2025
EDITED BY: MLYNCH
DRAWING FILE: \\Indy\SANP\Projects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 C201 UP.dwg



0' 50' 100'

SCALE: 1"=50'

EXISTING LEGEND

AC	Air Conditioner
	Combination Pole
E	Electric Meter Box
	Guy Wire
	Light Pole
	Mail Box
	Post
	Power Pole
	Satellite
	Spigot
T	Telephone Pedestal
	Tree
–ohe–	Overhead Electric Line
–oht–	Overhead Telephone Line
	Edge of Trees

PROPOSED LEGEND

	RIGHT-OF-WAY (R/W) LINE
	BUILDING SETBACK LINE
	EASEMENT
	WET DETENTION POND NORMAL POOL
	LOT LINE
W	WATER MAIN
SS	SANITARY MAIN
SD	SUBSURFACE UNDERDRAIN
	STORM SEWER
	FIRE HYDRANT & WATER VALVE
	WATER TEE, CROSS & BEND
R/W	RIGHT-OF-WAY
D.I.	DUCTILE IRON
S.S.E.	SANITARY SEWER EASEMENT
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
D.U.&S.E.	DRAINAGE, UTILITY & SANITARY ESMT.
	ROAD CUT PATCH

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STATE OF INDIANA
PROFESSIONAL ENGINEER

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CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2024.01016

W 600 N
N 700 W
N 600 W
W 500 N
X01 X02 X03 X04

UTILITY PLAN

C203

PLOT DATE: 8/22/2025 10:19 AM EDIT DATE: 8/21/2025 EDITED BY: MLYNCH DRAWING FILE: \\IndySANP\Projects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016.CE.OU.C201.UP.dwg
PLOT SCALE: 1:2.5849

0' 50' 100'

SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
- –oht– Overhead Telephone Line
- Edge of Trees

PROPOSED LEGEND

- RIGHT-OF-WAY (R/W) LINE
- BUILDING SETBACK LINE
- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- W WATER MAIN
- SS SANITARY MAIN
- SD SUBSURFACE UNDERDRAIN
- STORM SEWER
- FIRE HYDRANT & WATER VALVE
- WATER TEE, CROSS & BEND
- R/W RIGHT-OF-WAY
- D.I. DUCTILE IRON
- S.S.E. SANITARY SEWER EASEMENT
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- D.U.&S.E. DRAINAGE, UTILITY & SANITARY ESMT.
- ROAD CUT PATCH

GENERAL NOTES:

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MCCORDSVILLE, INDIANA

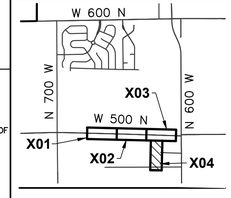
JOSHUA H. CRIBBLER
REGISTERED
No. 11800754
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

ISSUANCE INDEX
DATE:
08/22/2025
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

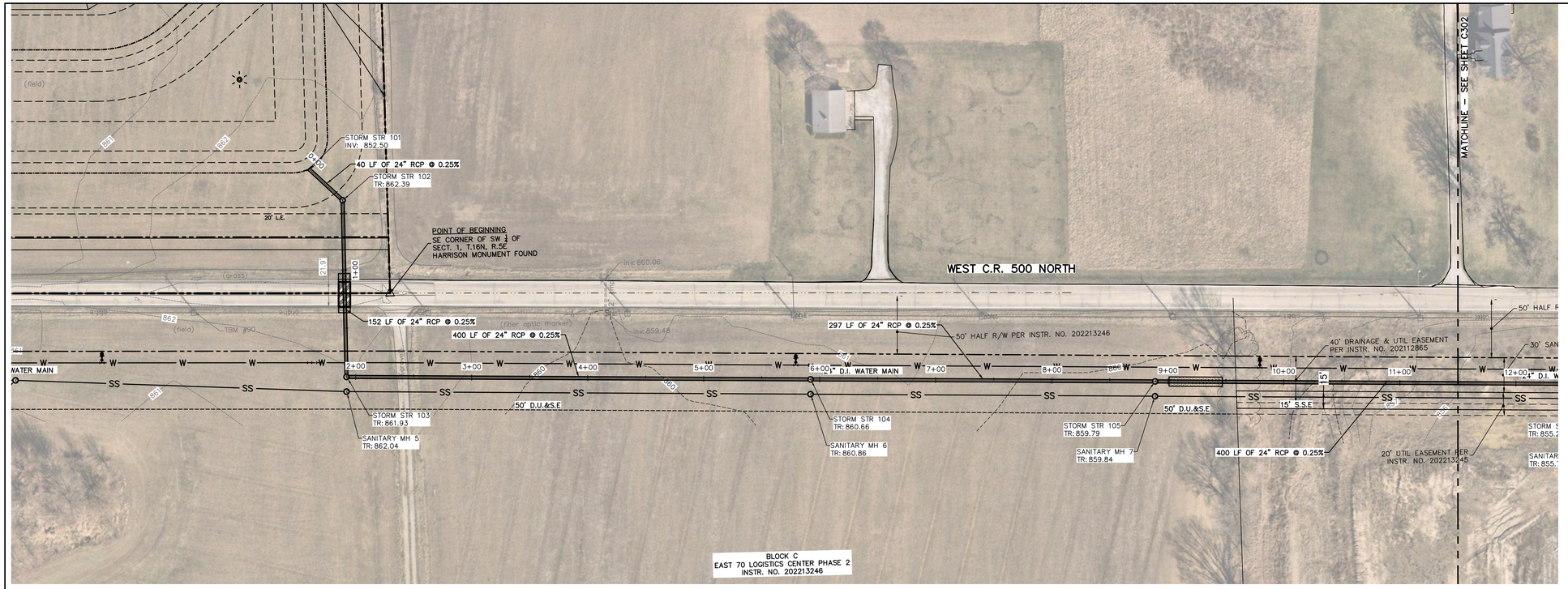
Project Number 2024.01016

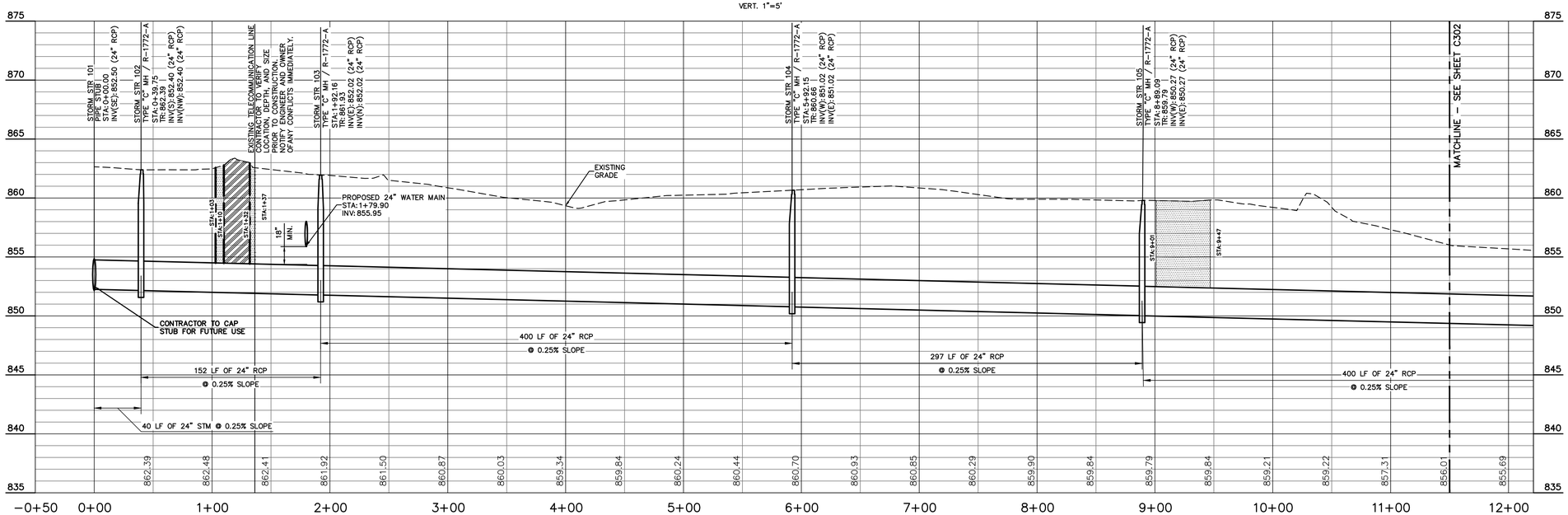


UTILITY PLAN

C204

PLOT DATE: 8/22/2025 11:35 AM
PLOT SCALE: 1:2.3849
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \\nas\SANP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C001 UP.dwg





SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
- –oht– Overhead Telephone Line
- Edge of Trees

PROPOSED LEGEND

- RIGHT–OF–WAY (R/W) LINE
- BUILDING SETBACK LINE
- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- W WATER MAIN
- SS SANITARY MAIN
- SD SUBSURFACE UNDERDRAIN
- STORM SEWER
- FIRE HYDRANT & WATER VALVE
- WATER TEE, CROSS & BEND
- XXX.XX ME MATCH EXISTING ELEVATION
- XXX.XX HP HIGH POINT ELEVATION
- D.U.&S.E. DRAINAGE, UTILITY & SANITARY ESMT.
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- R/W RIGHT–OF–WAY
- D.I. DUCTILE IRON
- S.S.E. SANITARY SEWER EASEMENT

KEYNOTES

1. SWALE UNDERDRAIN RISER
2. 6" DOUBLE–WALL SUBSURFACE TILE (SLOPE TO MATCH SWALE SLOPE)

STORM SEWER NOTES:
1. ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE – DRAINS TO WATERWAY"
2. MANNINGS COEFFICIENT n = 0.013
3. THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

GRANULAR BACKFILL REQUIRED

ROAD CUT PATCH WITH FLOWABLE FILL

GENERAL NOTES:
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CLAYBORNE OFFSITE UTILITIES CONSTRUCTION DOCUMENTS

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MCCORDSVILLE, INDIANA

JOSHUA H. CRIBELAR
REGISTERED
No. 11800754
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

ISSUANCE INDEX
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08/22/2025
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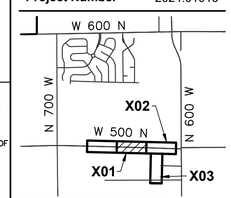
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

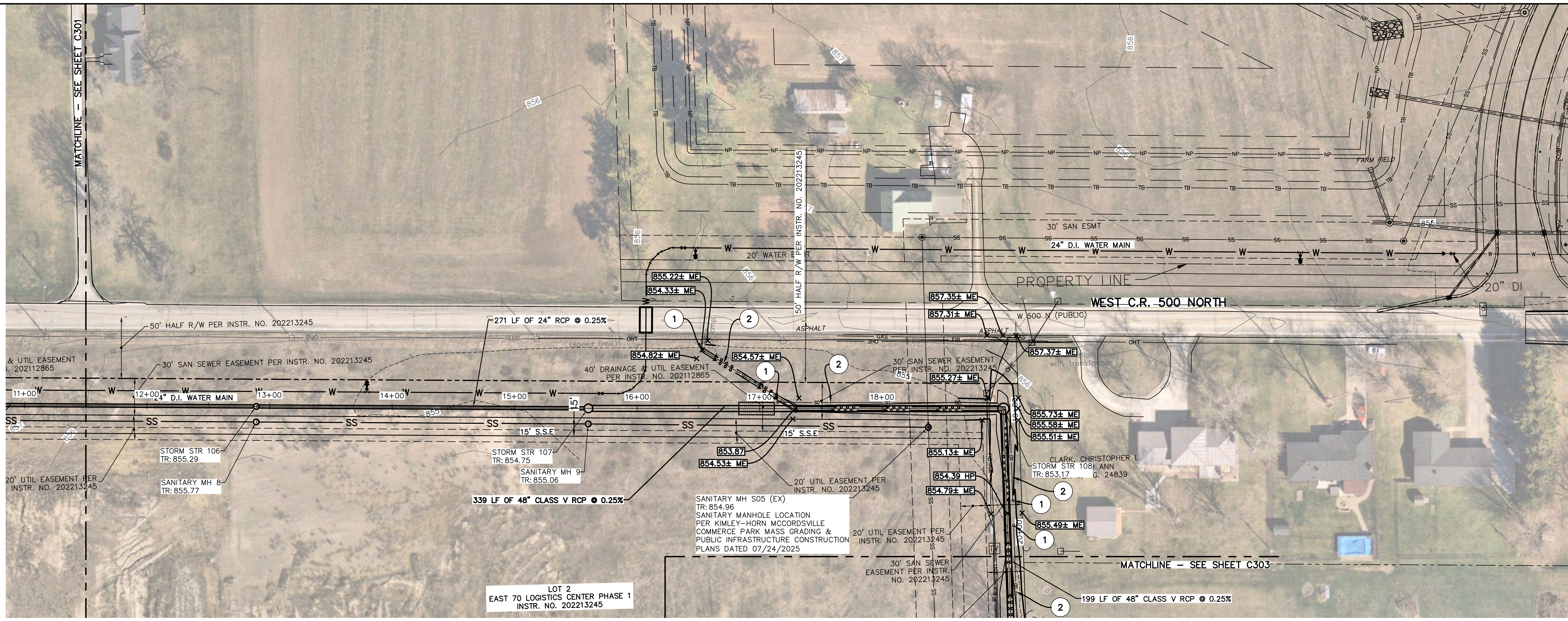
Project Number 2024.01016



GRADING STORM SEWER PLAN & PROFILE

C301

PLOT DATE: 8/22/2025 10:21 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \\indyvamp\Projects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE-DU C301 STMPP.dwg



SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
- –oht– Overhead Telephone Line
- Edge of Trees

PROPOSED LEGEND

- RIGHT-OF-WAY (R/W) LINE
- BUILDING SETBACK LINE
- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- W WATER MAIN
- SS SANITARY MAIN
- SD SUBSURFACE UNDERDRAIN
- STORM SEWER
- FIRE HYDRANT & WATER VALVE
- WATER TEE, CROSS & BEND
- XXX.XX ME MATCH EXISTING ELEVATION
- XXX.XX HP HIGH POINT ELEVATION
- D.U.&S.E. DRAINAGE, UTILITY & SANITARY ESMT.
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- R/W RIGHT-OF-WAY
- D.I. DUCTILE IRON
- S.S.E. SANITARY SEWER EASEMENT

KEYNOTES

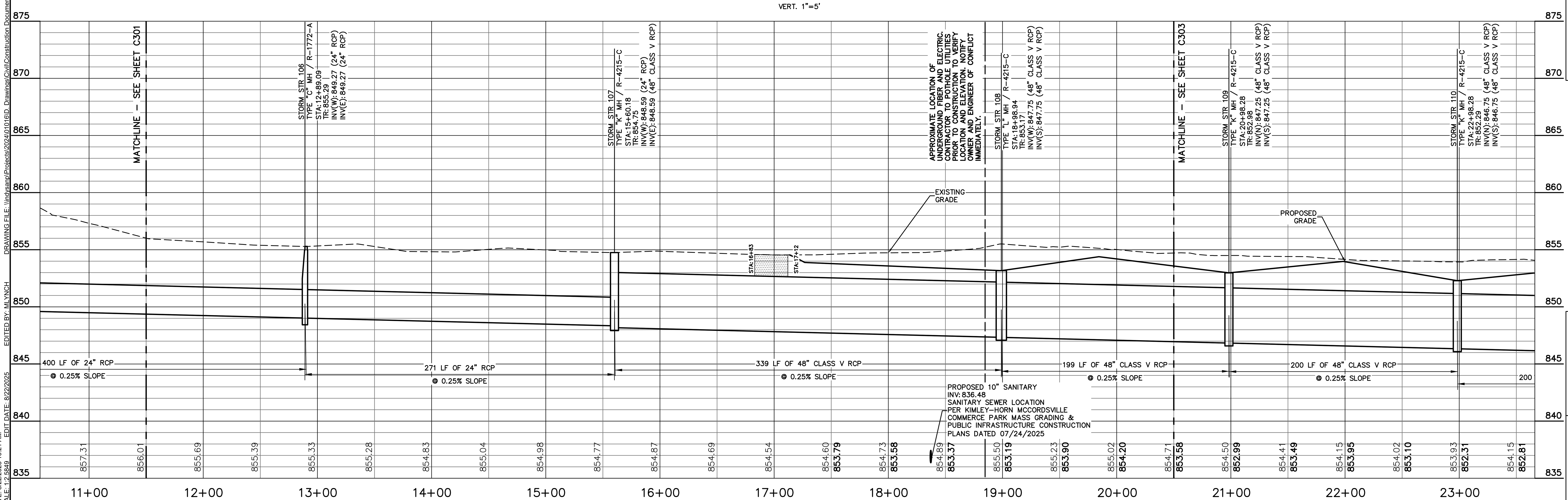
1. SWALE UNDERDRAIN RISER
2. 6" DOUBLE-WALL SUBSURFACE TILE (SLOPE TO MATCH SWALE SLOPE)

STORM SEWER NOTES:
1. ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE – DRAINS TO WATERWAY"
2. MANNINGS COEFFICIENT n = 0.013
3. THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

- GRANULAR BACKFILL REQUIRED
- ROAD CUT PATCH WITH FLOWABLE FILL

STORM SEWER PROFILE

SCALE HORIZ. 1"=50'
VERT. 1"=5'



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JOSHUA H. CRIBELAR REGISTERED No. 11800754 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED BY

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08/22/2025
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REVISION SCHEDULE

NO.	DESCRIPTION	DATE

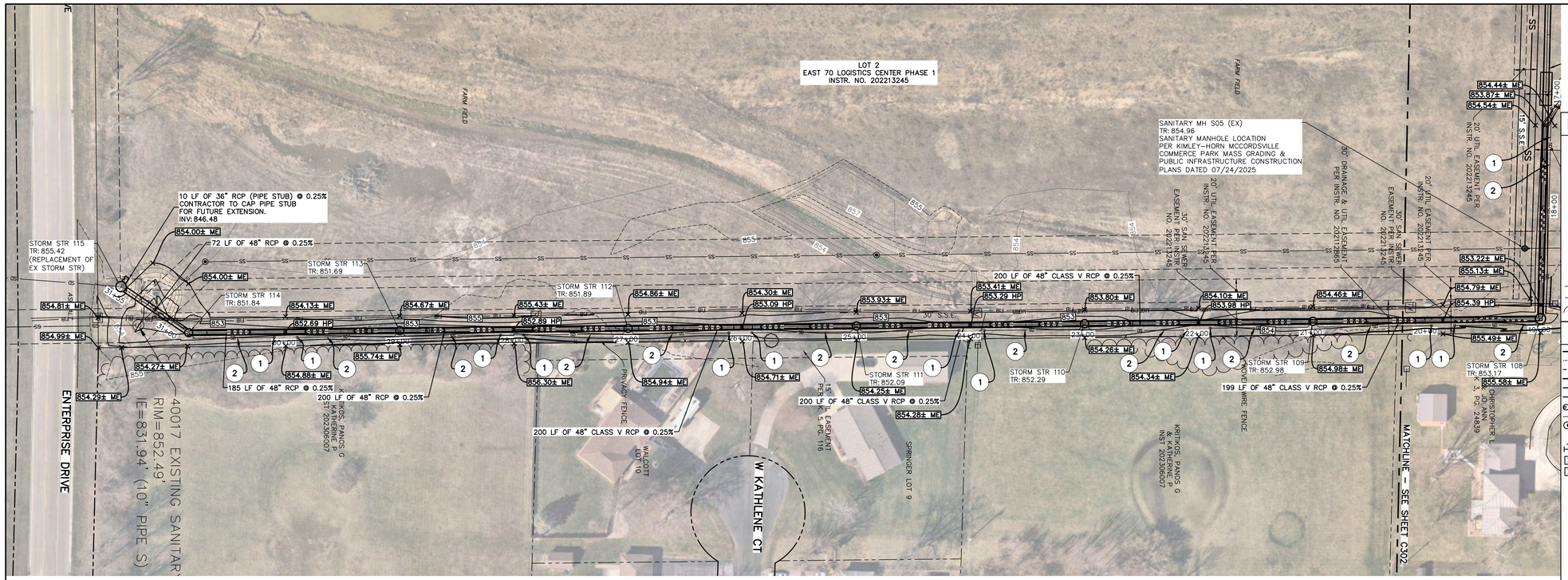
Project Number 2024.01016

W 600 N, N 700 W, N 600 W, W 500 N, X01, X02, X03

GRADING STORM SEWER PLAN & PROFILE

C302

PLOT DATE: 8/22/2025 10:21 AM EDIT DATE: 8/22/2025 EDITED BY: MLYNCH
PLOT SCALE: 1:2.5849



EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
- –oht– Overhead Telephone Line
- Edge of Trees

PROPOSED LEGEND

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- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- W WATER MAIN
- SS SANITARY MAIN
- SD SUBSURFACE UNDERDRAIN
- STORM SEWER
- FIRE HYDRANT & WATER VALVE
- WATER TEE, CROSS & BEND
- XXX.XX ME MATCH EXISTING ELEVATION
- XXX.XX HP HIGH POINT ELEVATION
- D.U.&S.E. DRAINAGE, UTILITY & SANITARY ESMT.
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- R/W RIGHT-OF-WAY
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KEYNOTES

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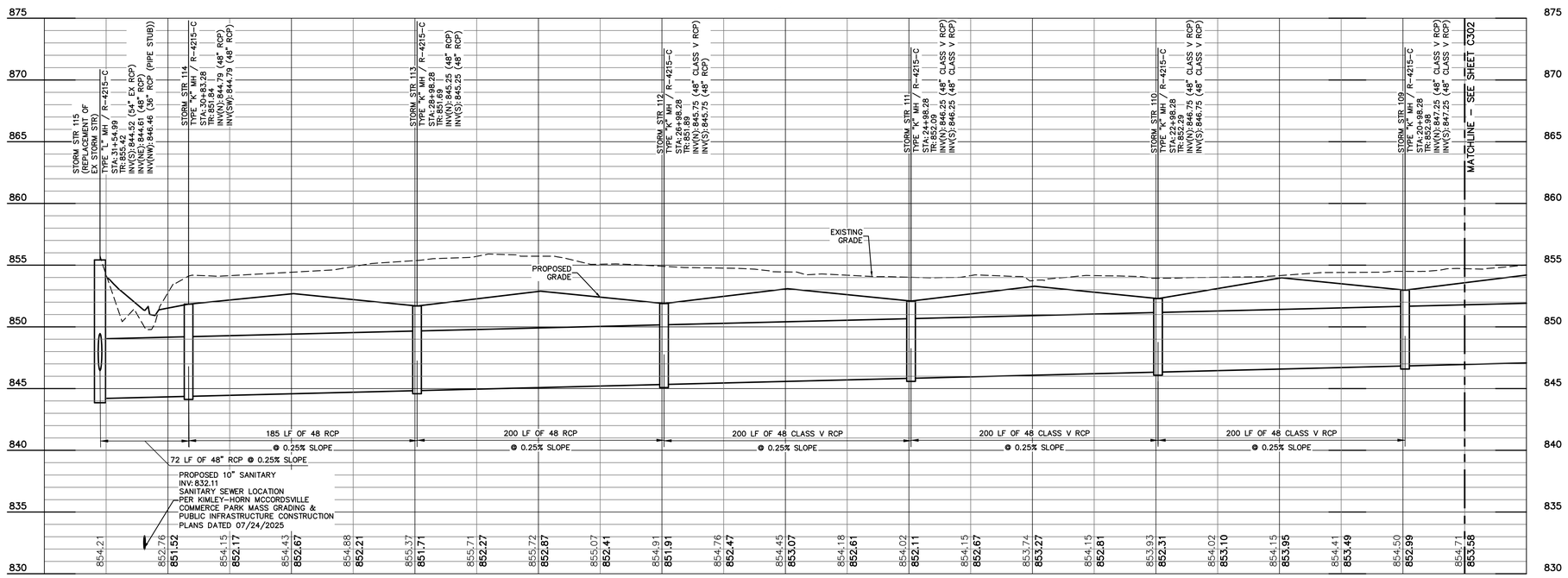
STORM SEWER PROFILE

SCALE HORIZ. 1"=50'
VERT. 1"=5'



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Joshua H. Cribelar
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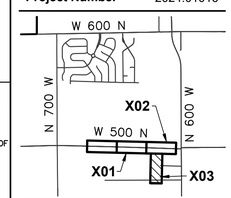
NO.	DESCRIPTION	DATE

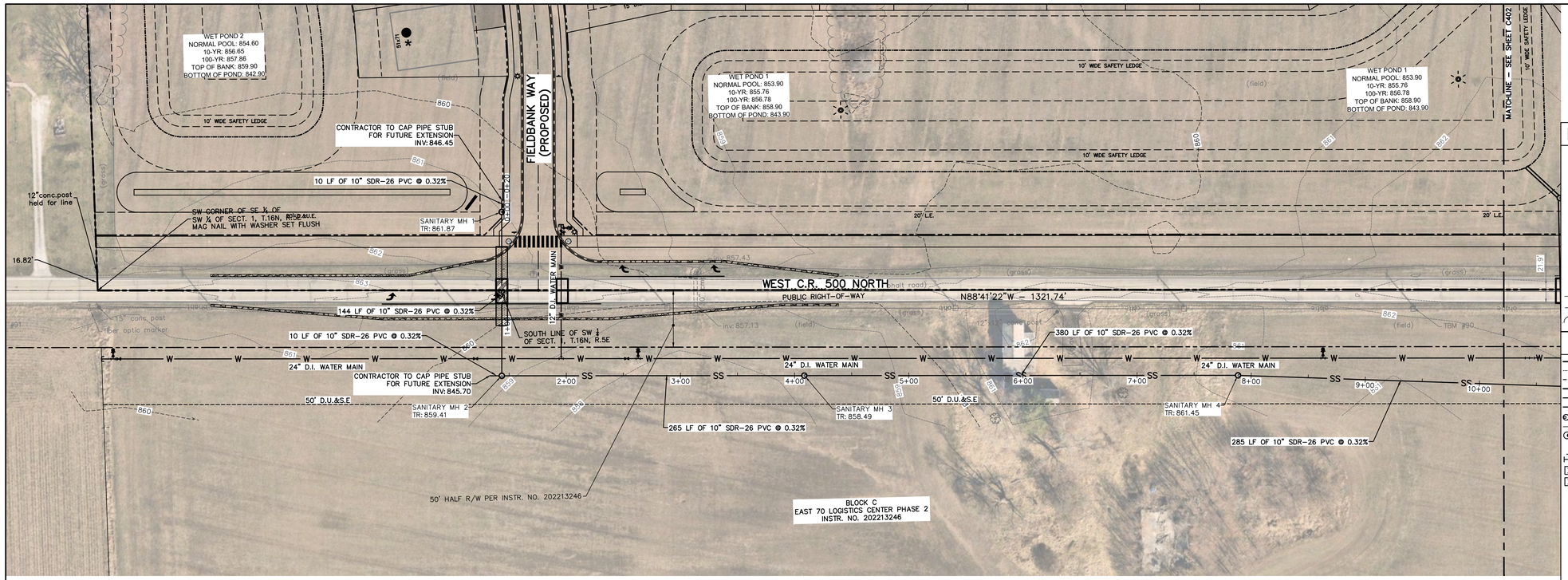
Project Number 2024.01016



GRADING STORM SEWER PLAN & PROFILE

C303

PLOT DATE: 8/22/2025 11:35 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \\indyfsserv\Projects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE-DU C301 STMPP.dwg



SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
- –oht– Overhead Telephone Line
- Edge of Trees

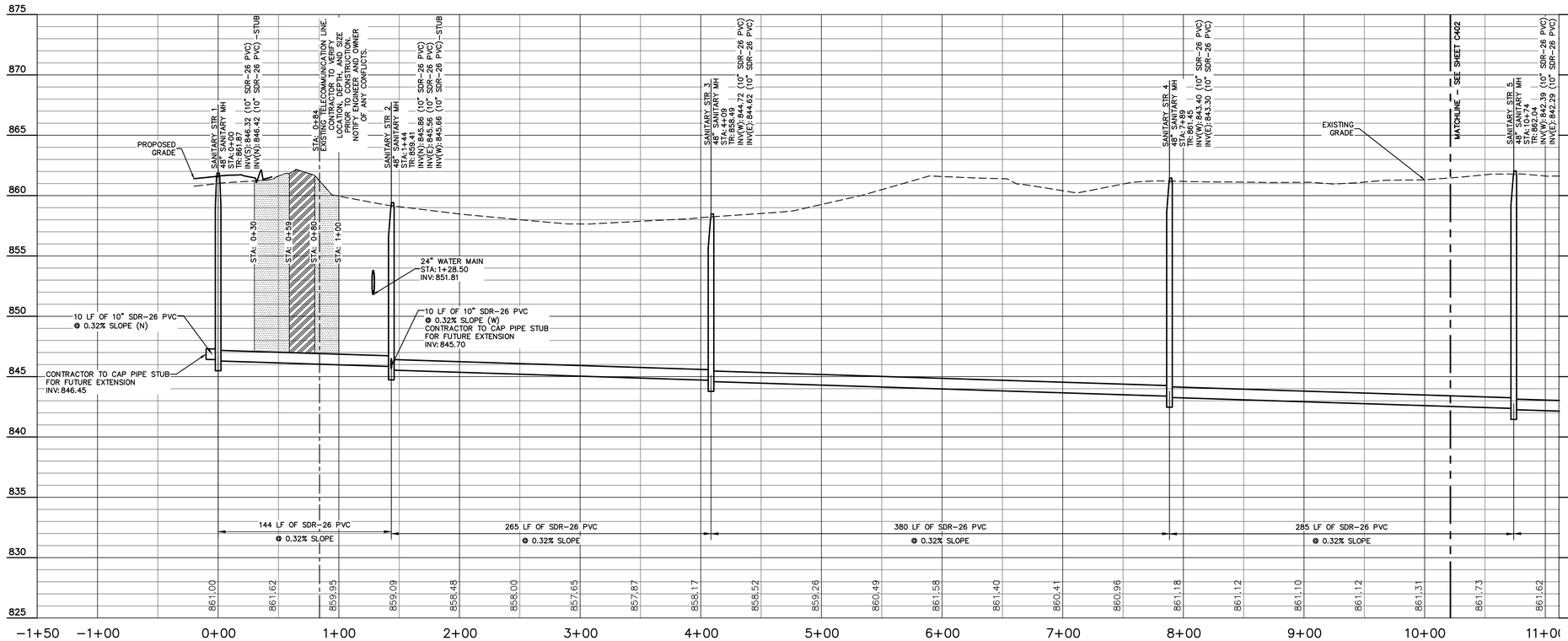
PROPOSED LEGEND

- RIGHT-OF-WAY (R/W) LINE
- BUILDING SETBACK LINE
- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- W WATER MAIN
- SS SANITARY MAIN
- SD SUBSURFACE UNDERDRAIN
- STORM SEWER
- FIRE HYDRANT & WATER VALVE
- WATER TEE, CROSS & BEND
- XXX.XX ME MATCH EXISTING ELEVATION
- XXX.XX HP HIGH POINT ELEVATION
- D.U.&S.E. DRAINAGE, UTILITY & SANITARY ESMT.
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- R/W RIGHT-OF-WAY
- D.I. DUCTILE IRON
- S.S.E. SANITARY SEWER EASEMENT

- GRANULAR BACKFILL REQUIRED
- ROAD CUT PATCH WITH FLOWABLE FILL

SANITARY PROFILE

SCALE: HORIZ. 1"=50'
VERT. 1"=5'



SANITARY SEWER NOTES:
1. THE GRANULAR BACKFILL AREAS SHOWN IN PLAN VIEW ARE AN ESTIMATE PROVIDED BY THE ENGINEER. EXACT LIMITS OF GRANULAR BACKFILL ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON TRENCH WIDTH AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.

GENERAL NOTES:
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3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

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CLAYBORNE OFFSITE UTILITIES CONSTRUCTION DOCUMENTS

N CR 700 W & W CR 500 N
MCCORDSVILLE, INDIANA

JOSHUA H. CRIBELAR
REGISTERED
No. 11800754
STATE OF INDIANA
PROFESSIONAL ENGINEER

Joshua H. Cribelar
CERTIFIED BY

ISSUANCE INDEX
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CONSTRUCTION DOCUMENTS

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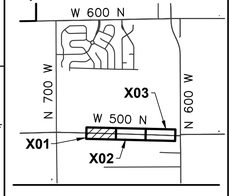

SANITARY SEWER PLAN & PROFILE

C401

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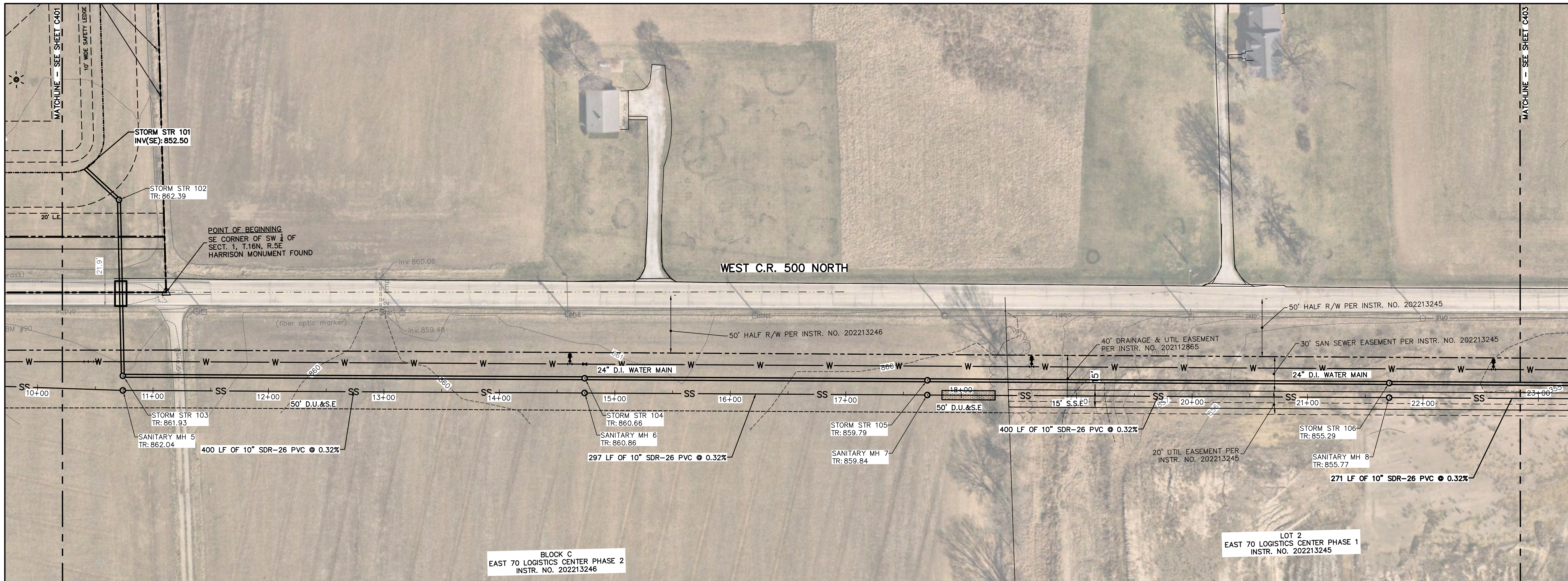
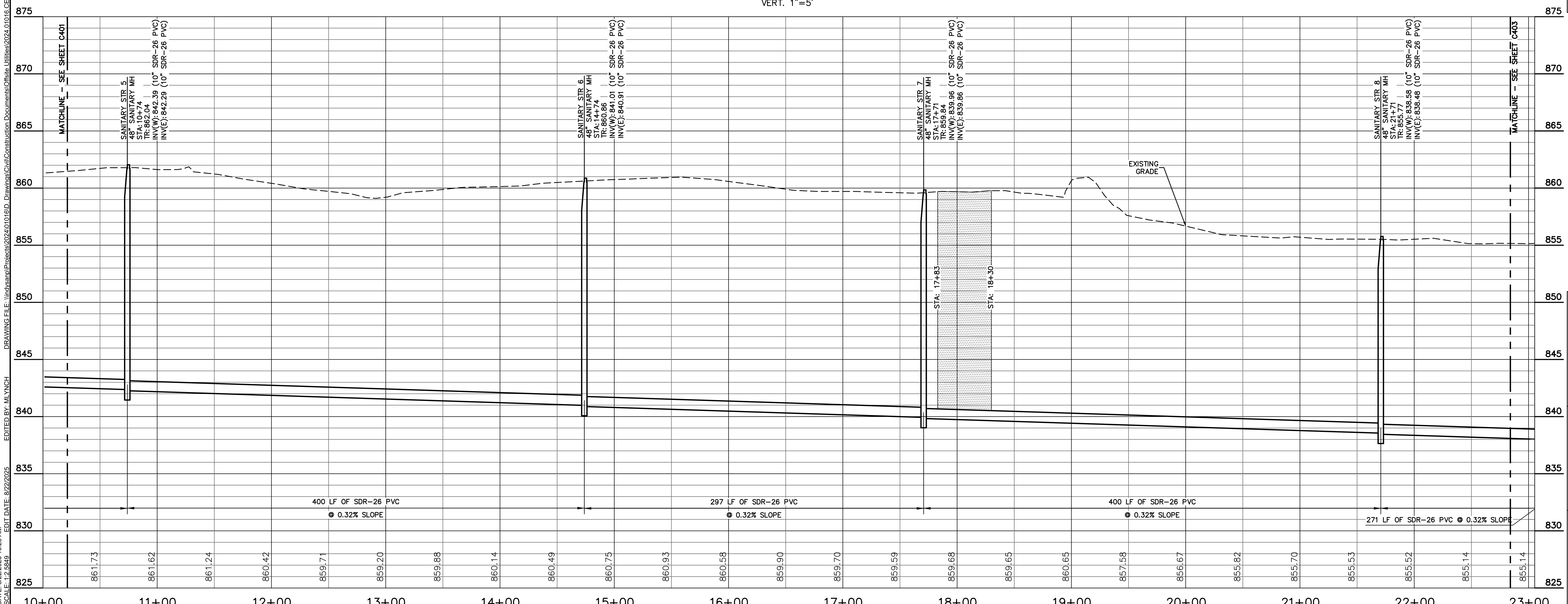
PLOT SCALE: 1:2.5849
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \\indyfsamp\Projects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE.DU.C401 SANPP.dwg



SANITARY PROFILE

SCALE: HORIZ. 1"=50'
VERT. 1"=5'



EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
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PROPOSED LEGEND

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- LOT LINE
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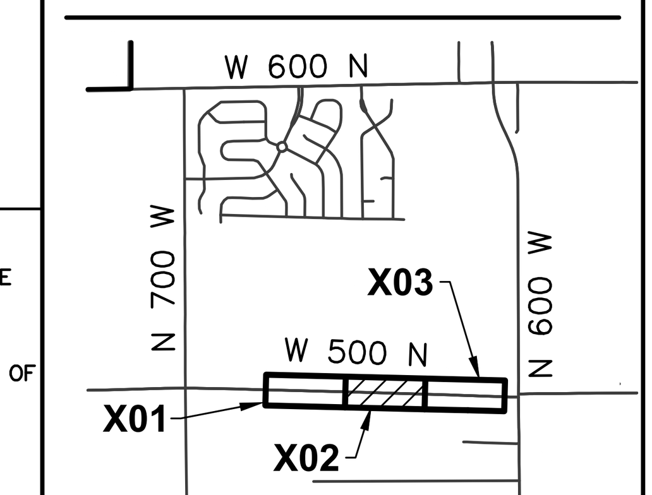
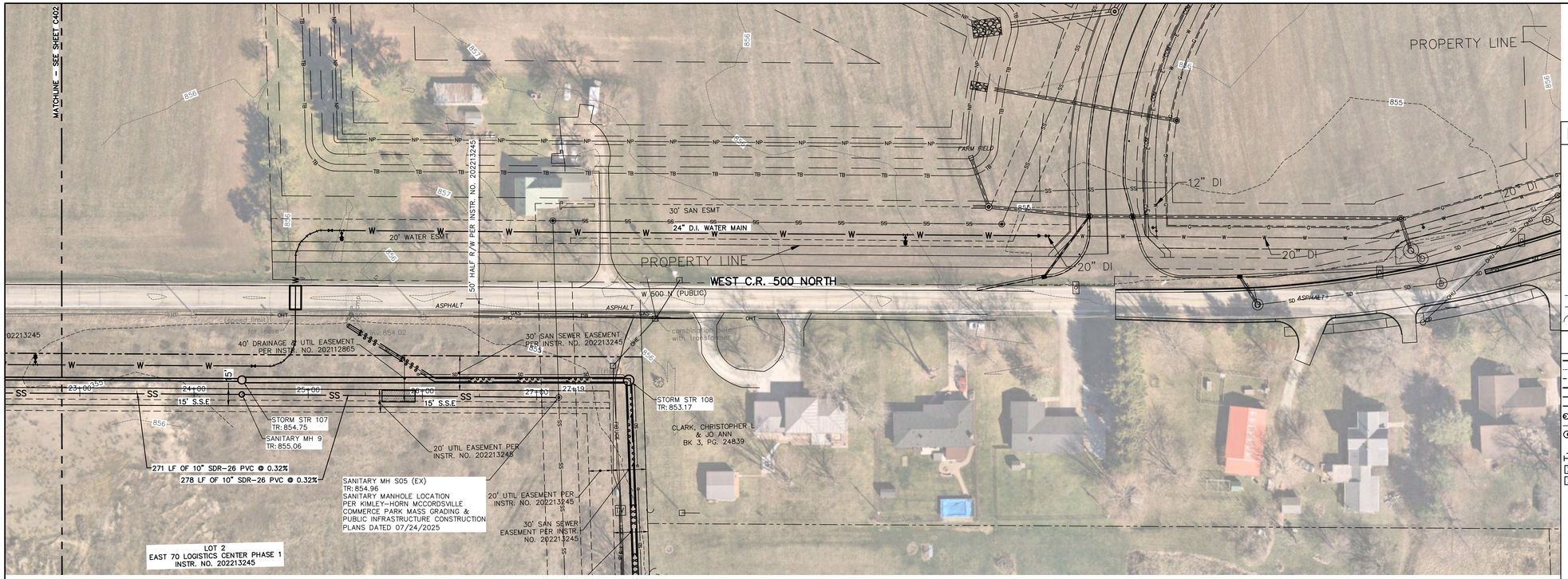


SANITARY SEWER PLAN & PROFILE

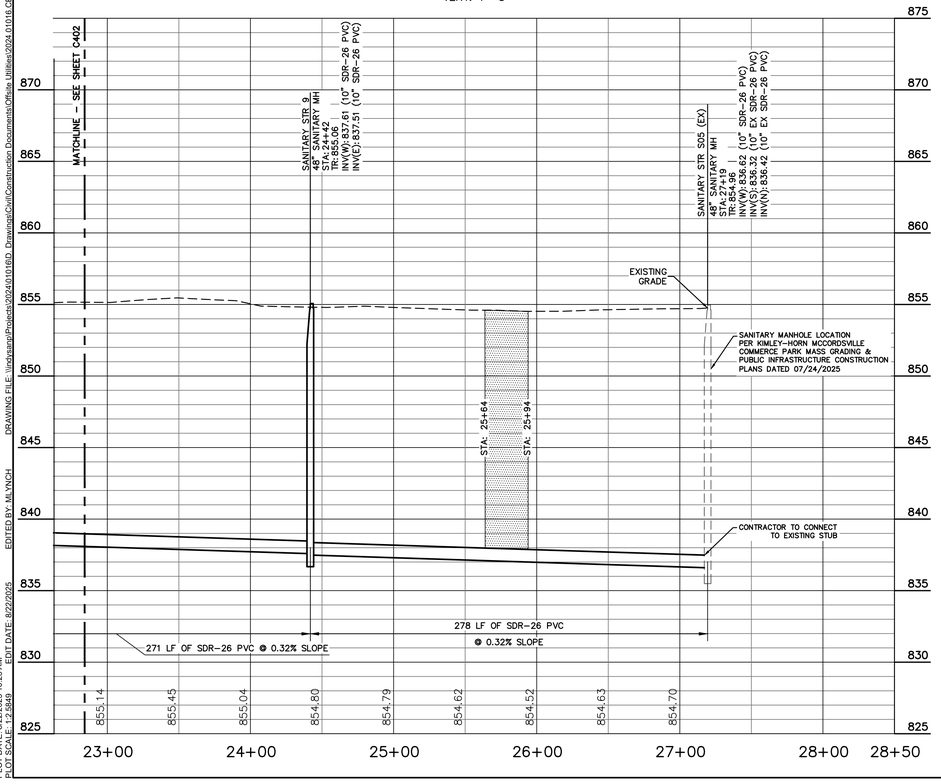
C402

PLOT DATE: 8/22/2025 10:23 AM EDIT DATE: 8/22/2025 EDITED BY: MLYNCH DRAWING FILE: \\indysanp\Projects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C401 SANPP.dwg
PLOT SCALE: 1:2.5849



SANITARY PROFILE

SCALE: HORIZ. 1"=50'
VERT. 1"=5'



0' 50' 100'
SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
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- Guy Wire
- Light Pole
- Mail Box
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- Spigot
- Telephone Pedestal
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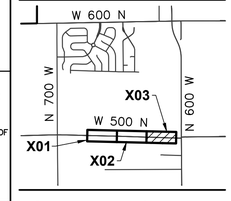

SANITARY SEWER PLAN & PROFILE

C403

DRAWING FILE: \\indyfsarp\Projects\2024\01016\D_Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016_CE_DU_C401 SaNPP.dwg
EDITED BY: MLYNCH
EDIT DATE: 8/22/2025 10:23 AM
PLOT DATE: 8/22/2025
PLOT SCALE: 1:2.5849

STORM STRUCTURE DATA TABLE NOTE: ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE–DRAINS TO WATERWAY"						
STR. NO.	STRUCTURE / CASTING TYPE	TOP OF RIM (TR)	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING GRADE (%)	REMARKS
101	**24" PIPE STUB**			40' OF 24" RCP 852.50 (SE) [102]	0.25%	STUB TO BE CAPPED FOR FUTURE USE
102	TYPE "C" MH / R–1772–A	862.39	24" RCP 852.40 (NW) [101]	152' OF 24" RCP 852.40 (S) [103]	0.25%	
103	TYPE "C" MH / R–1772–A	861.93	24" RCP 852.02 (N) [102]	400' OF 24" RCP 852.02 (E) [104]	0.25%	
104	TYPE "C" MH / R–1772–A	860.66	24" RCP 851.02 (W) [103]	297' OF 24" RCP 851.02 (E) [105]	0.25%	
105	TYPE "C" MH / R–1772–A	859.79	24" RCP 850.27 (W) [104]	400' OF 24" RCP 850.27 (E) [106]	0.25%	
106	TYPE "C" MH / R–1772–A	855.29	24" RCP 849.27 (W) [105]	271' OF 24" RCP 849.27 (E) [107]	0.25%	
107	TYPE "K" MH / R–4215–C	854.75	24" RCP 848.59 (W) [106]	339' OF 48" CLASS V RCP 848.59 (E) [108]	0.25%	
108	TYPE "L" MH / R–4215–C	853.17	48" CLASS V RCP 847.75 (W) [107]	199' OF 48" CLASS V RCP 847.75 (S) [109]	0.25%	SWALE UNDERDRAINS
109	TYPE "K" MH / R–4215–C	852.98	48" CLASS V RCP 847.25 (N) [108]	200' OF 48" CLASS V RCP 847.25 (S) [110]	0.25%	SWALE UNDERDRAINS
110	TYPE "K" MH / R–4215–C	852.29	48" CLASS V RCP 846.75 (N) [109]	200' OF 48" CLASS V RCP 846.75 (S) [111]	0.25%	SWALE UNDERDRAINS
111	TYPE "K" MH / R–4215–C	852.09	48" CLASS V RCP 846.25 (N) [110]	200' OF 48" CLASS V RCP 846.25 (S) [112]	0.25%	SWALE UNDERDRAINS
112	TYPE "K" MH / R–4215–C	851.89	48" CLASS V RCP 845.75 (N) [111]	200' OF 48" RCP 845.75 (S) [113]	0.25%	SWALE UNDERDRAINS
113	TYPE "K" MH / R–4215–C	851.69	48" RCP 845.25 (N) [112]	185' OF 48" RCP 845.25 (S) [114]	0.25%	SWALE UNDERDRAINS
114	TYPE "K" MH / R–4215–C	851.84	48" RCP 844.79 (N) [113]	72' OF 48" RCP 844.79 (SW) [115]	0.25%	SWALE UNDERDRAIN
115	TYPE "L" MH / R–4215–C	855.42	48" RCP 844.61 (NE) [114] 36" RCP (PIPE STUB) 846.46 (NW)	54" EX RCP 844.52 (S)		REPLACEMENT OF EXISTING STORM STRUCTURE. CONTRACTOR TO NOTIFY ENGINEER AND OWNER OF ANY ISSUE WITH PROPOSED CONNECTION. 10' STUB TO NORTHWEST – CAPPED END

CONTRACTOR TO CONNECT EXISTING FIELD TILES AND SUMP PUMP LATERALS TO NEAREST PROPOSED SWALE UNDERDRAIN IF SIZE IS LESS THAN 6". IF SIZE IS 6" OR GREATER, THEN CONNECT TO NEAREST STRUCTURE.

SANITARY STRUCTURE DATA TABLE						
STR. NO.	STRUCTURE	TOP OF RIM (TR)	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING GRADE (%)	REMARKS
1	48" SANITARY MANHOLE	861.87	10" SDR–26 PVC 846.42 (N)	144' OF 10" SDR–26 PVC 846.32 (S) [2]	0.32%	10' STUB TO NORTH – CAPPED END
2	48" SANITARY MANHOLE	859.41	10" SDR–26 PVC 845.86 (N) [1] 10" SDR–26 PVC 845.66 (W)	265' OF 10" SDR–26 PVC 845.56 (E) [3]	0.32%	10' STUB TO WEST – CAPPED END
3	48" SANITARY MANHOLE	858.49	10" SDR–26 PVC 844.72 (W) [2]	380' OF 10" SDR–26 PVC 844.62 (E) [4]	0.32%	
4	48" SANITARY MANHOLE	861.45	10" SDR–26 PVC 843.40 (W) [3]	285' OF 10" SDR–26 PVC 843.30 (E) [5]	0.32%	
5	48" SANITARY MANHOLE	862.04	10" SDR–26 PVC 842.39 (W) [4]	400' OF 10" SDR–26 PVC 842.29 (E) [6]	0.32%	
6	48" SANITARY MANHOLE	860.86	10" SDR–26 PVC 841.01 (W) [5]	297' OF 10" SDR–26 PVC 840.91 (E) [7]	0.32%	
7	48" SANITARY MANHOLE	859.84	10" SDR–26 PVC 839.96 (W) [6]	400' OF 10" SDR–26 PVC 839.86 (E) [8]	0.32%	
8	48" SANITARY MANHOLE	855.77	10" SDR–26 PVC 838.58 (W) [7]	271' OF 10" SDR–26 PVC 838.48 (E) [9]	0.32%	
9	48" SANITARY MANHOLE	855.06	10" SDR–26 PVC 837.61 (W) [8]	278' OF 10" SDR–26 PVC 837.51 (E) [S05 (EX)]	0.32%	
S05 (EX)	EXISTING STRUCTURE	854.96	10" SDR–26 PVC 836.62 (W) [9] 10" EX SDR–26 PVC 836.42 (N)	10" EX SDR–26 PVC 836.32 (S)		SANITARY MANHOLE LOCATION PER KIMLEY–HORN MCCORDSVILLE COMMERCE PARK MASS GRADING & PUBLIC INFRASTRUCTURE CONSTRUCTION PLANS DATED 06/03/2025 CONTRACTOR TO VERIFY EXISTING STRUCTURE SIZE, LOCATION, & INVERTS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER AND OWNER OF ANY ISSUE WITH PROPOSED CONNECTION.

NOTE: TR IS THE TOP OF RIM AT THE CENTER OF THE CASTING

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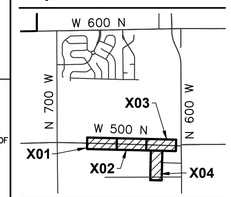

STORM & SANITARY SEWER STRUCTURE DATA TABLE

C410

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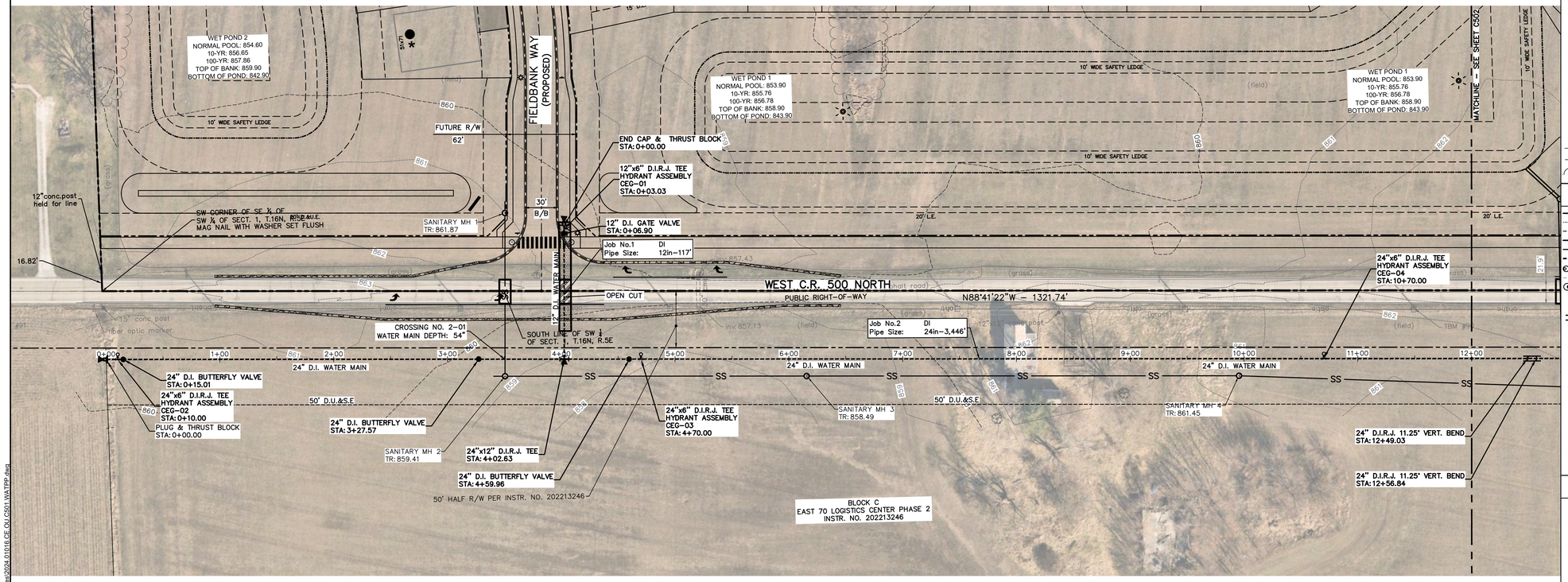
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \\indyfsarp\Projects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C301 STMPP.dwg

CROSSING DATA TABLE						
Job No. Crossing No.	Lower Main (Y / N)	Bottom of Crossing Pipe	Top of Water Main	Surface Elevation	Size of Crossing Pipe (in)	Cover (Reduced Separation)
2-01	N	845.91	854.00	859.50	10	54"
2-02	N	851.80	857.90	862.00	24	49"
2-03	N	836.90	852.10	858.10	10	72"

CITIZENS WATER PROJECT LEGEND				
Project Name: CLAYBORNE OFFSITE				
Project Number: J-25-090				
Job No.	Street Name	Pipe Size	Pipe Type	Pipe Length
1	FIELDBANK WAY	12in	DI	117'
2	W CR 500 NORTH	24in	DI	3,446'
		TOTAL PIPE		3,563'

PROJECT NAME CLAYBORNE OFFSITE
PROJECT NUMBER J-25-090
DIST. MAP NO. 898 MAP GRID NO. IN30-0902
LOTS 0
TAX CODE 30006
PRESSURE DISTRICT CUMBERLAND
DRAFTER MBL
DATE August 22, 2025



SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- Overhead Electric Line
- Overhead Telephone Line
- Edge of Trees

PROPOSED LEGEND

- RIGHT-OF-WAY (R/W) LINE
- BUILDING SETBACK LINE
- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- WATER MAIN
- SANITARY MAIN
- CURB SUBSURFACE UNDERDRAIN
- STORM SEWER
- AIR RELEASE VALVE
- VERTICAL & HORIZONTAL BEND & TEE
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7. ALL HYDRANTS TO HAVE STORZ CONNECTION.
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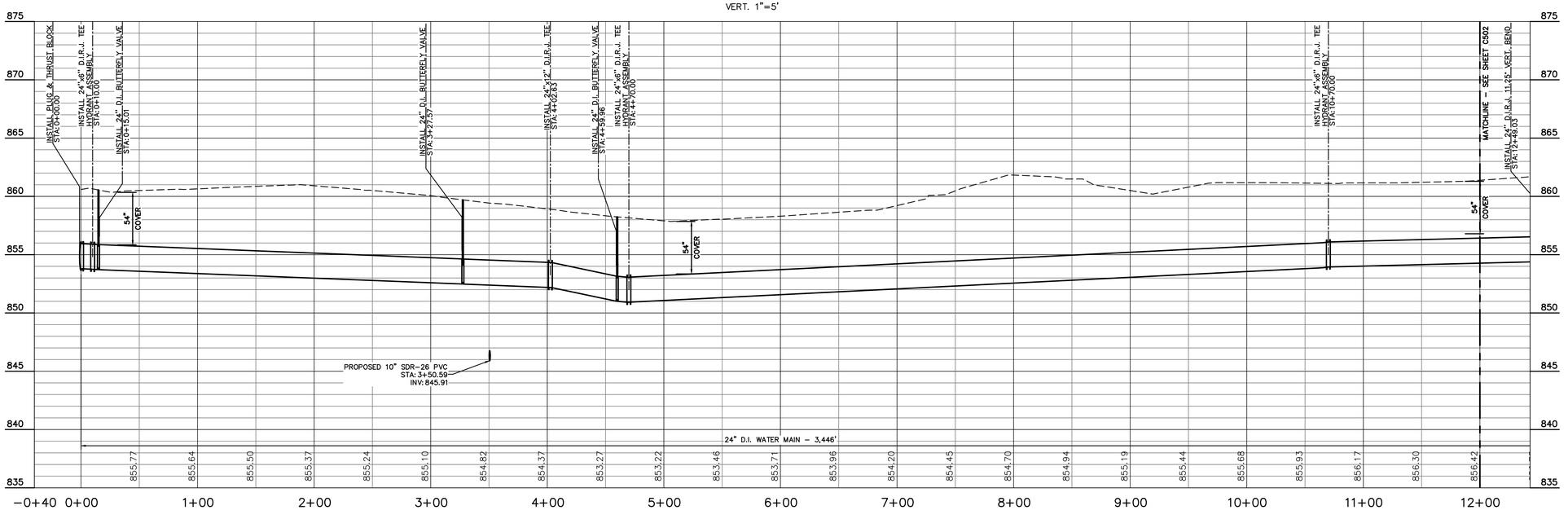
WATER MAIN PROFILE

SCALE: HORIZ. 1"=50'
VERT. 1"=5'



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INDIANAPOLIS, IN 46216

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TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

CLAYBORNE OFFSITE UTILITIES CONSTRUCTION DOCUMENTS

N CR 700 W & W CR 500 N
MCCORDSVILLE, INDIANA

JOSHUA H. CRIBELLAR
REGISTERED
No. 11800754
STATE OF INDIANA
PROFESSIONAL ENGINEER

Joshua H. Cribellar
CERTIFIED BY

ISSUANCE INDEX
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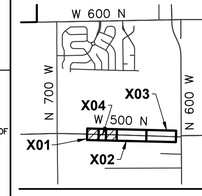
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2024.01016



WATER MAIN PLAN & PROFILE

C501

PLOT DATE: 8/22/2025 11:36 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \Indyvamp\Projects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C501 WATPP.dwg

CROSSING DATA TABLE						
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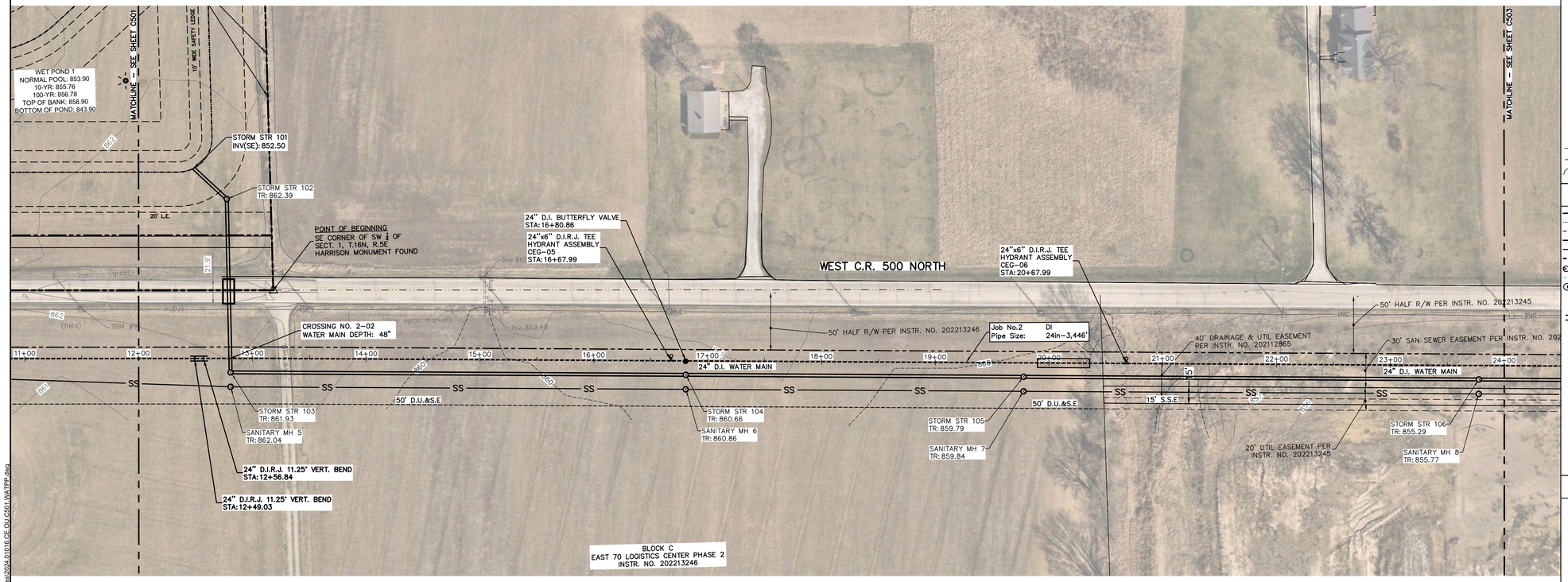
DIST. MAP NO. 898 MAP GRID NO. IN30-0902
LOTS 0
TAX CODE 30006
PRESSURE DISTRICT CUMBERLAND
DRAFTER MBL
DATE August 22, 2025



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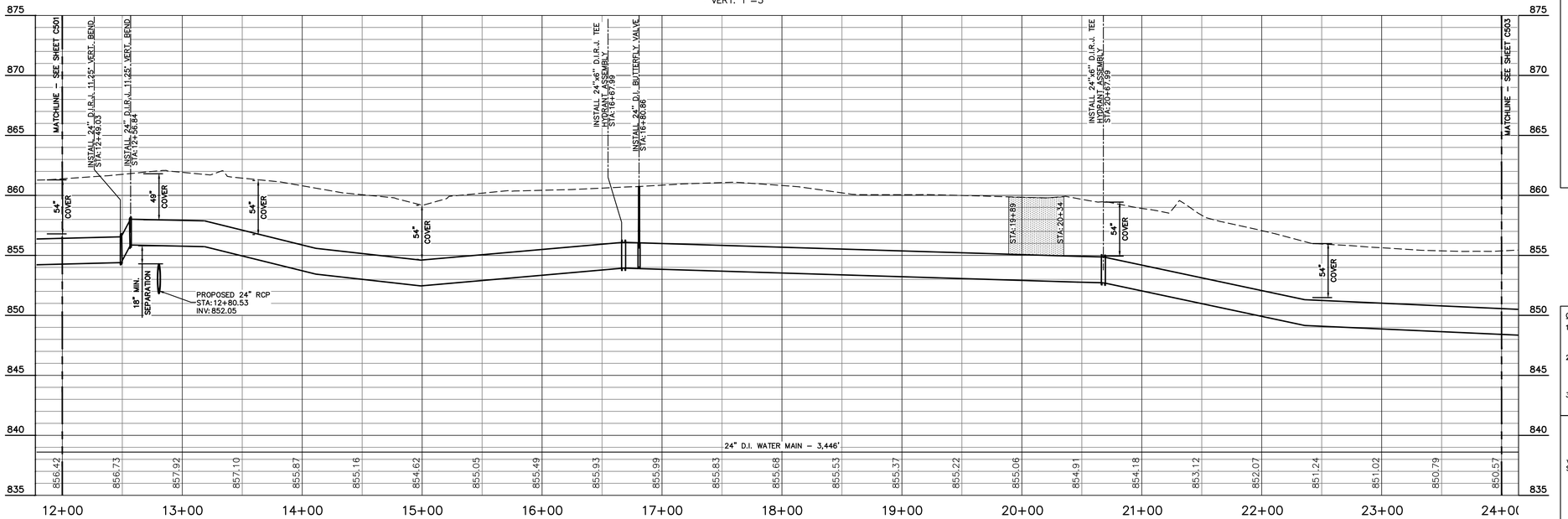

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N CR 700 W & W CR 500 N
MCCORDSVILLE, INDIANA

JOSHUA H. CRIBELAR
REGISTERED
No. 11800754
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2024.01016

WATER MAIN PLAN & PROFILE

C502

PLOT DATE: 8/22/2025 11:36 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \\indyvanp\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C501 WATPP.dwg

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PROJECT NUMBER J-25-090
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LOTS 0
TAX CODE 30006
PRESSURE DISTRICT CUMBERLAND
DRAFTER MBL
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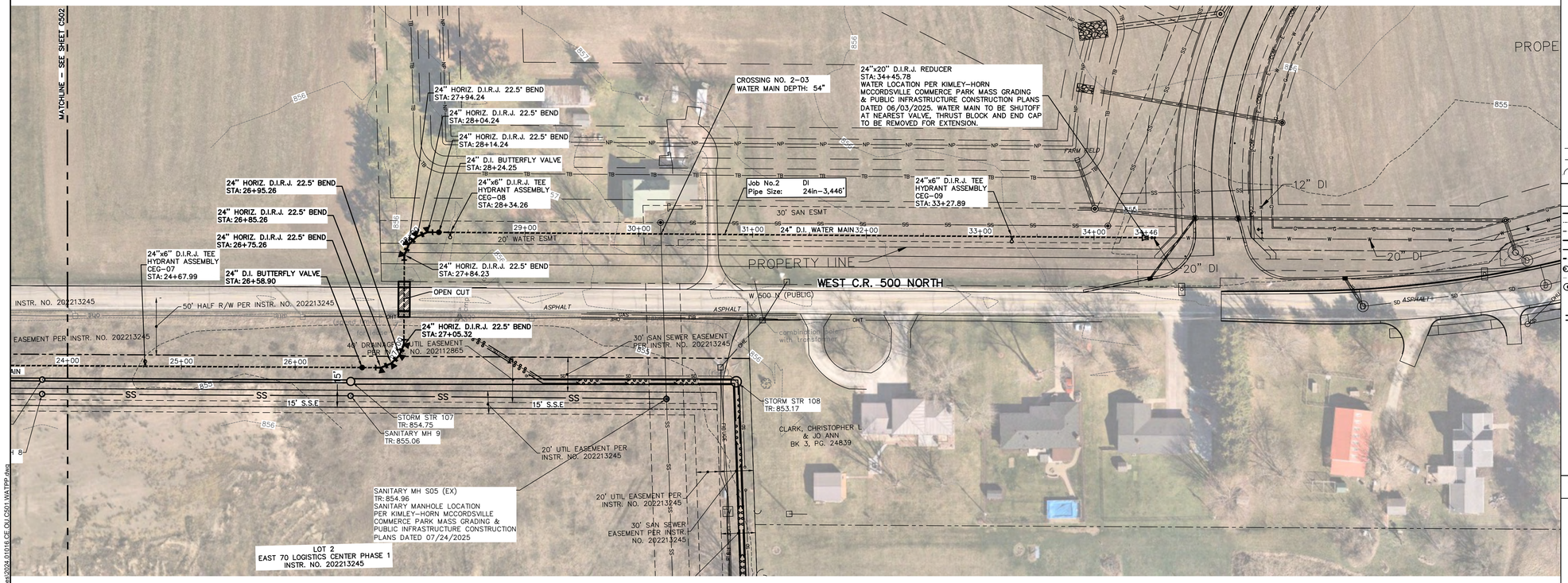
SCALE: 1"=50'



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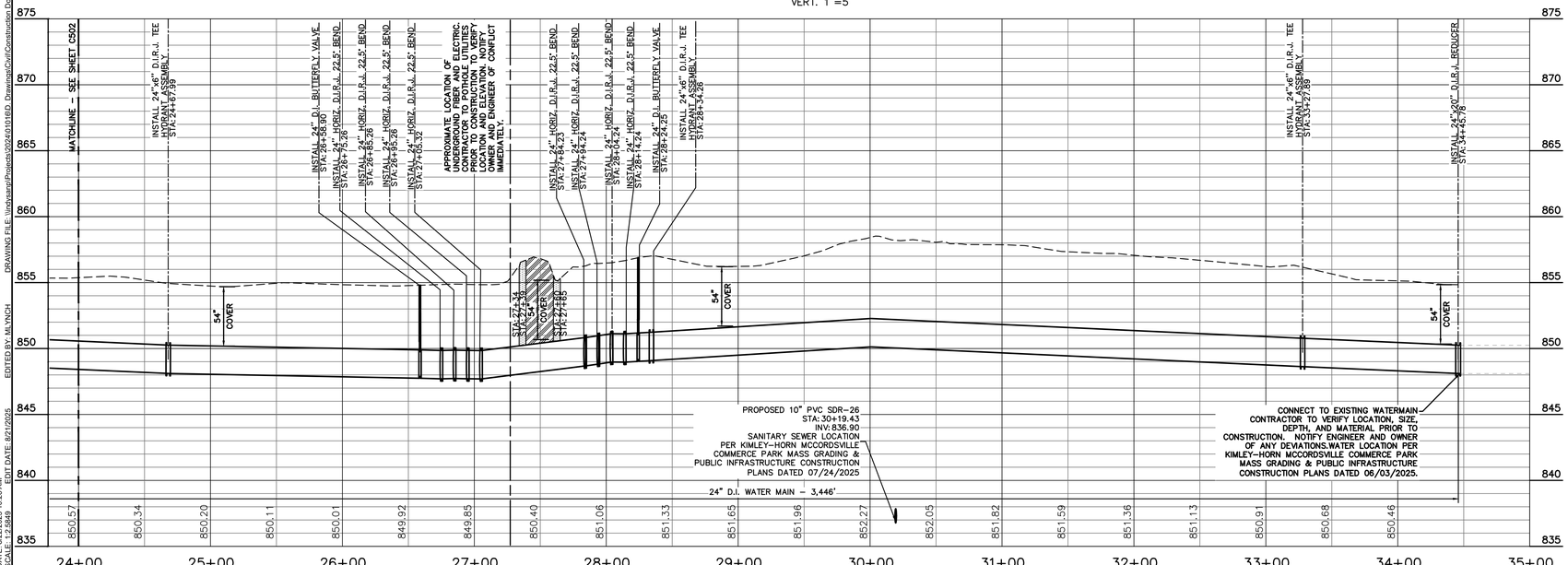

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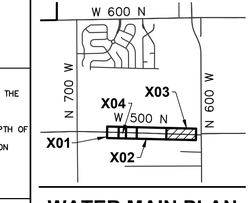

WATER MAIN PLAN & PROFILE

C503

DRAWING FILE: \Indyvamp\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016_CE_OU_C501 WATPP.dwg
EDITED BY: MLYNCH
EDIT DATE: 8/21/2025
PLOT DATE: 8/22/2025 10:26 AM
PLOT SCALE: 1:2.5849

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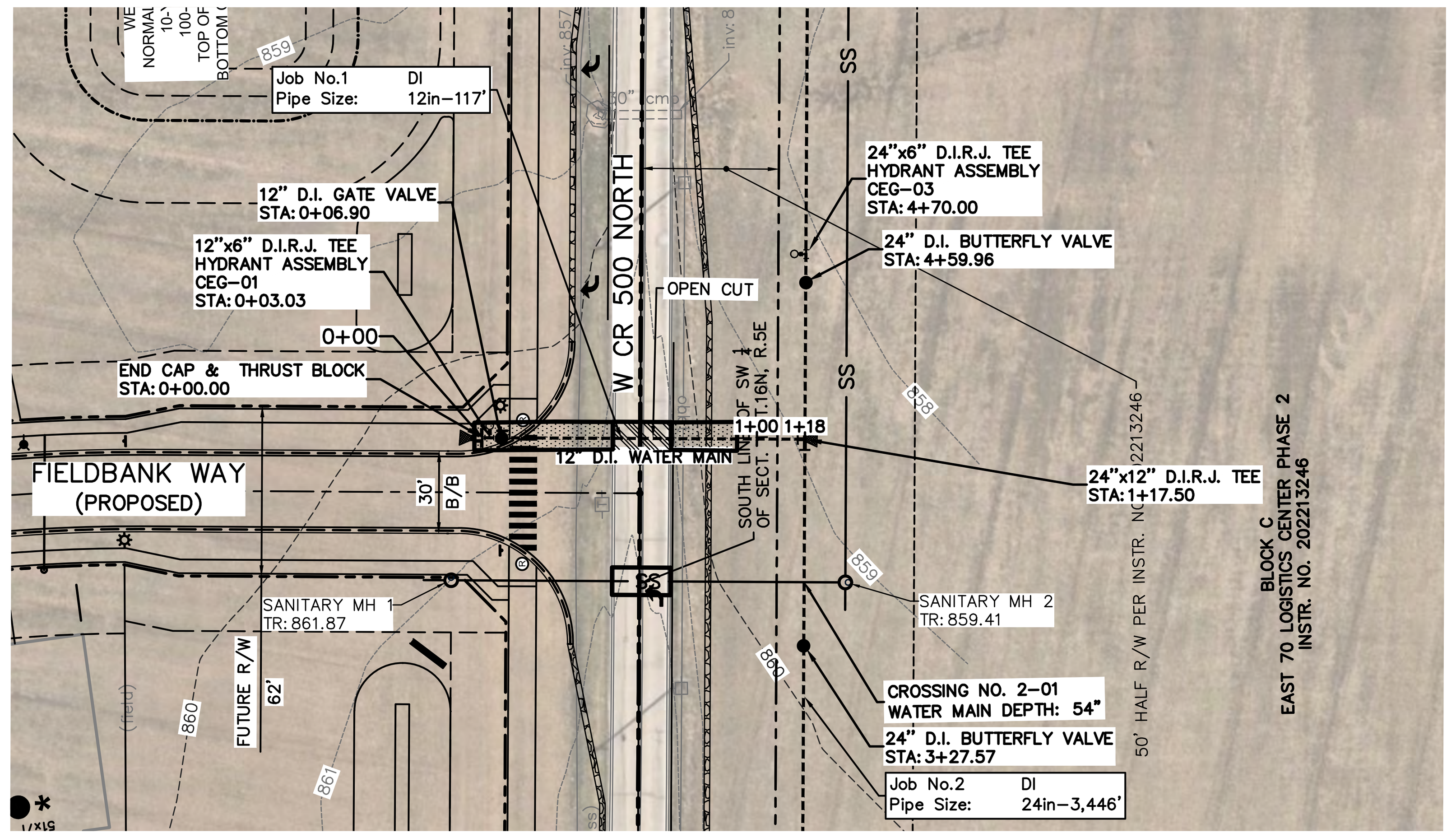

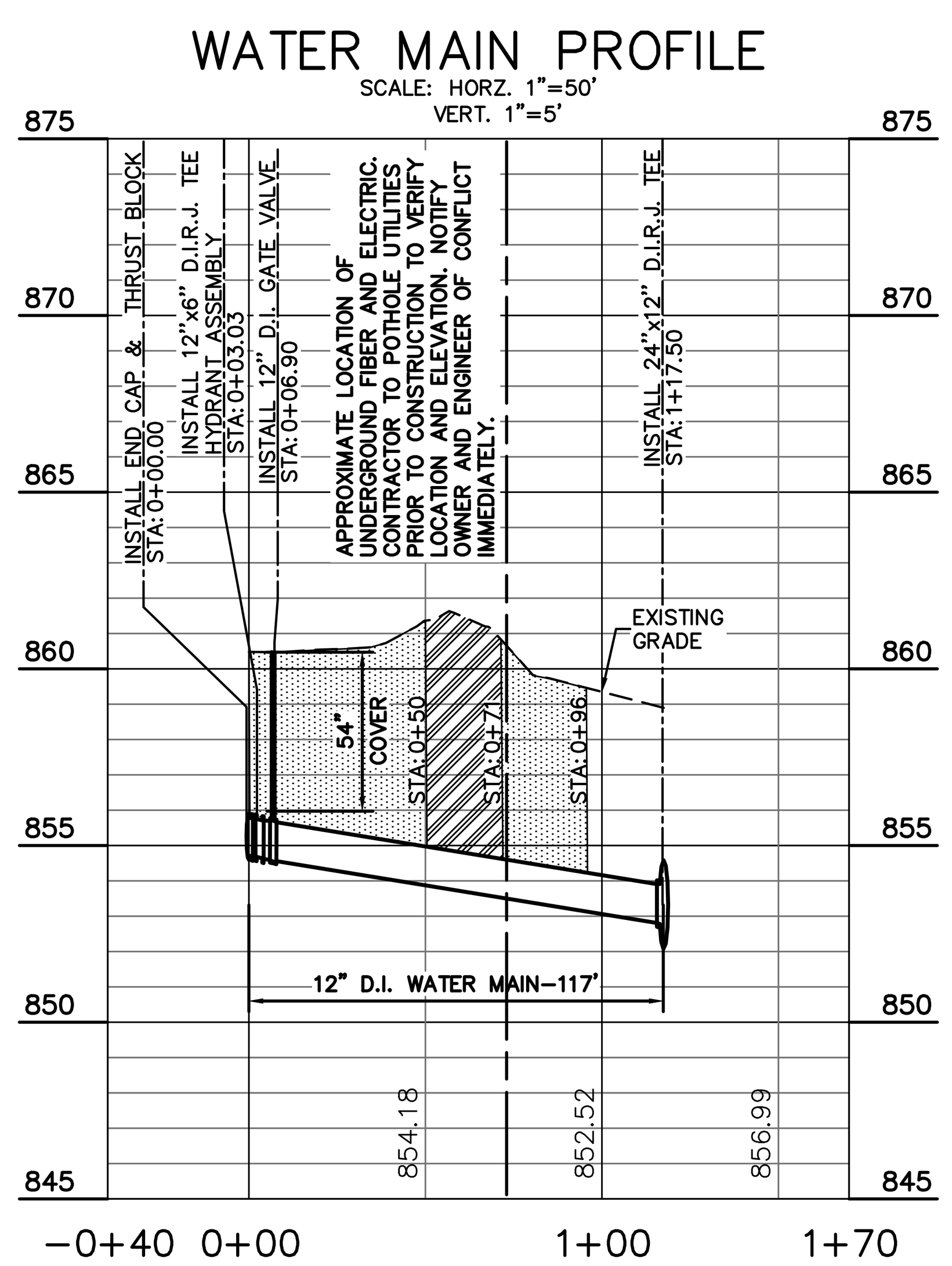

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INDIANAPOLIS, IN 46216

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9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
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CLAYBORNE OFFSITE UTILITIES CONSTRUCTION DOCUMENTS

N CR 700 W & W CR 500 N
MCCORDSVILLE, INDIANA

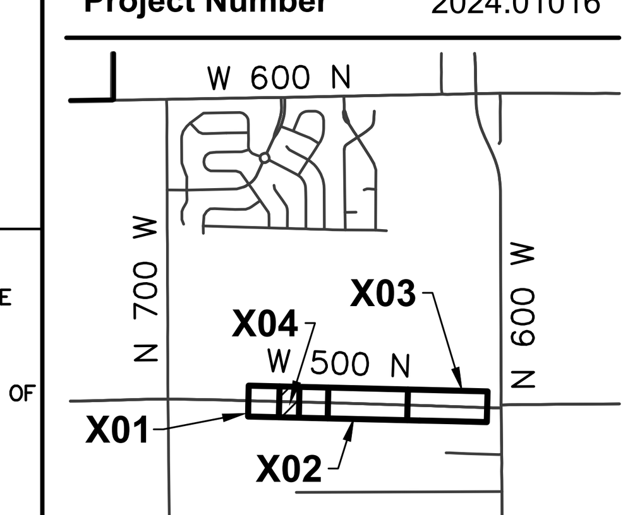
JOSHUA H. CRIBELAR REGISTERED No. 11800754 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED BY

ISSUANCE INDEX
DATE:
08/22/2025
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

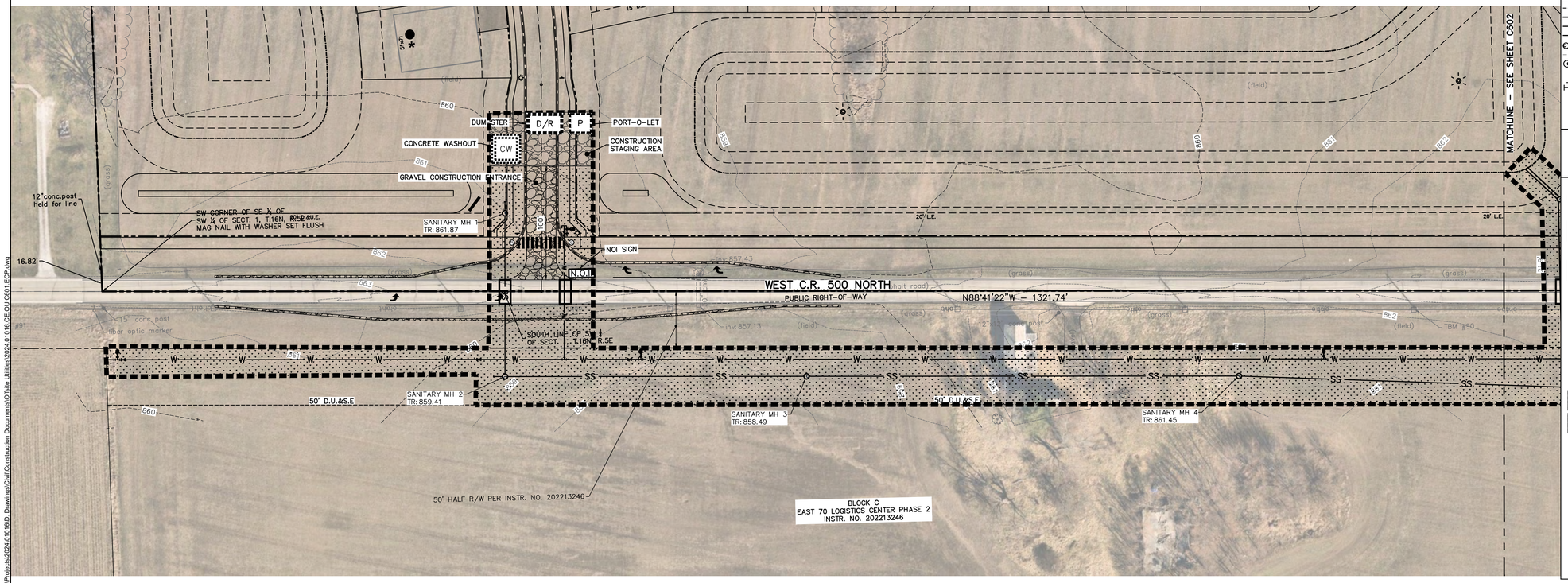
Project Number 2024.01016



WATER MAIN PLAN & PROFILE

C504

PLOT DATE: 8/22/2025 10:26 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/21/2025
EDITED BY: MLYNCH
DRAWING FILE: \\indysarp\Projects\2024\01016\D_Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016.CE.OU.C501 WATPP.dwg



0' 50' 100'

SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
- –oht– Overhead Telephone Line
- Edge of Trees

PROPOSED LEGEND

- RIGHT-OF-WAY (R/W) LINE
- BUILDING SETBACK LINE
- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- W WATER MAIN
- SS SANITARY MAIN
- CURB SUBSURFACE UNDERDRAIN
- STORM SEWER
- FIRE HYDRANT & WATER VALVE
- WATER TEE, CROSS & BEND
- S.S.E. SANITARY SEWER EASEMENT
- D.U.&S.E. DRAINAGE, UTILITY & SANITARY ESMT.

EROSION CONTROL LEGEND

- CONSTRUCTION LIMITS
- AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE
- EROSION CONTROL BLANKET W/ SEEDING
- IP INLET PROTECTION
- ROCK DONUT
- GRAVEL CONSTRUCTION ENTRANCE
- CONSTRUCTION STAGING AREA
- CW CONCRETE WASHOUT
- D/R DUMPSTER / RECYCLING AREA
- P PORT-O-LET
- N.O.I. N.O.I. SIGN POSTING
- OUTLET PROTECTION

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT & NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE & DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
3. SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

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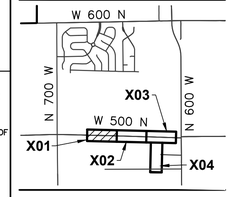
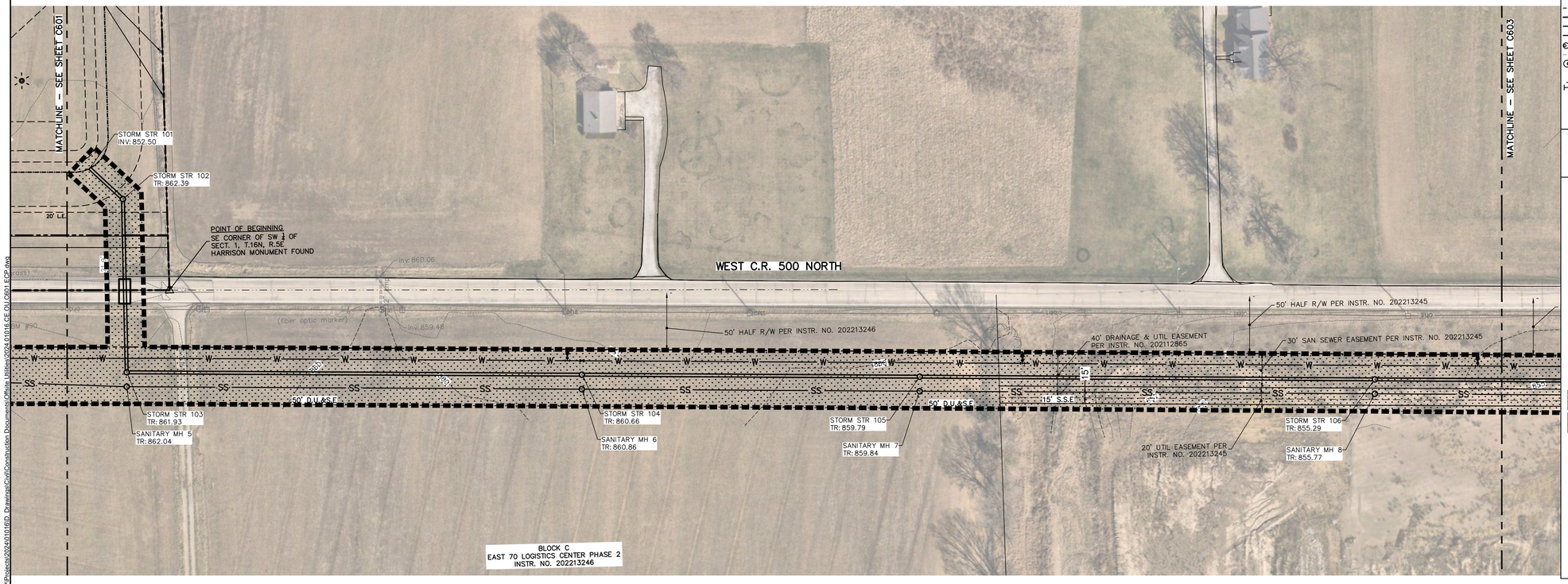


EROSION CONTROL PLAN

C601

PLOT DATE: 8/22/2025 10:27 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \\nas5\ANP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024 01016 CE OU C601 EOP.dwg



0' 50' 100'

SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
- –oht– Overhead Telephone Line
- Edge of Trees

PROPOSED LEGEND

- RIGHT–OF–WAY (R/W) LINE
- BUILDING SETBACK LINE
- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- W WATER MAIN
- SS SANITARY MAIN
- CURB SUBSURFACE UNDERDRAIN
- STORM SEWER
- FIRE HYDRANT & WATER VALVE
- WATER TEE, CROSS & BEND
- S.S.E. SANITARY SEWER EASEMENT
- D.U.&S.E. DRAINAGE, UTILITY & SANITARY ESMT.

EROSION CONTROL LEGEND

- CONSTRUCTION LIMITS
- AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE
- EROSION CONTROL BLANKET W/ SEEDING
- IP INLET PROTECTION
- ROCK DONUT
- GRAVEL CONSTRUCTION ENTRANCE
- CONSTRUCTION STAGING AREA
- CW CONCRETE WASHOUT
- D/R DUMPSTER / RECYCLING AREA
- P PORT–O–LET
- N.O.I. N.O.I. SIGN POSTING
- OUTLET PROTECTION

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PROFESSIONAL ENGINEER

CERTIFIED BY

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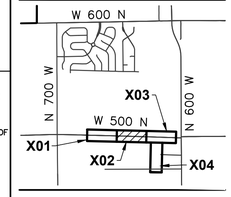
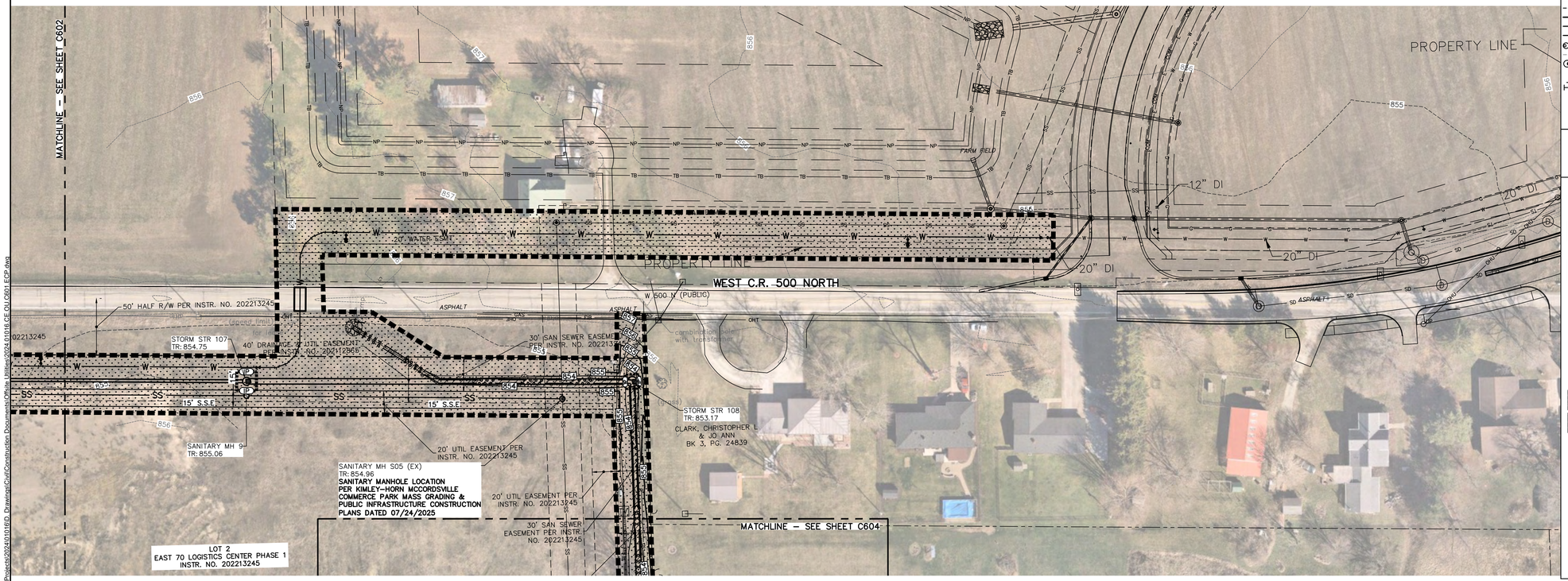


EROSION CONTROL PLAN

C602

PLOT DATE: 8/22/2025 10:27 AM
PLOT SCALE: 1:2.3849
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \\nas\SANP\Projects\2024\01016\D. Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C601 ECP.dwg



0' 50' 100'

SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
- Combination Pole
- Electric Meter Box
- Guy Wire
- Light Pole
- Mail Box
- Post
- Power Pole
- Satellite
- Spigot
- Telephone Pedestal
- Tree
- –ohe– Overhead Electric Line
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- Edge of Trees

PROPOSED LEGEND

- RIGHT–OF–WAY (R/W) LINE
- BUILDING SETBACK LINE
- EASEMENT
- WET DETENTION POND NORMAL POOL
- LOT LINE
- W WATER MAIN
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- CURB SUBSURFACE UNDERDRAIN
- STORM SEWER
- FIRE HYDRANT & WATER VALVE
- WATER TEE, CROSS & BEND
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- D.U.&S.E. DRAINAGE, UTILITY & SANITARY ESMT.

EROSION CONTROL LEGEND

- CONSTRUCTION LIMITS
- AREA SUBJECT TO TEMPORARY SEEDING DURING CONSTRUCTION AND PERMANENT SEEDING AFTER CONSTRUCTION IS COMPLETE
- EROSION CONTROL BLANKET W/ SEEDING
- IP INLET PROTECTION
- RD ROCK DONUT
- GRAVEL CONSTRUCTION ENTRANCE
- CONSTRUCTION STAGING AREA
- CW CONCRETE WASHOUT
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Joshua H. Cribelar
CERTIFIED BY

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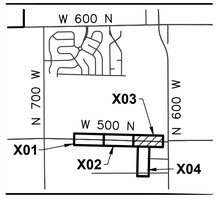

EROSION CONTROL PLAN

C603

PLOT DATE: 8/22/2025 10:27 AM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \\nas\SANP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C601 EOP.dwg

0' 50' 100'

SCALE: 1"=50'

EXISTING LEGEND

- Air Conditioner
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- Electric Meter Box
- Guy Wire
- Light Pole
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- Power Pole
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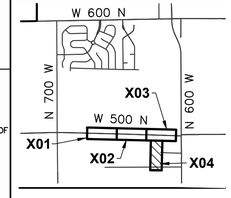
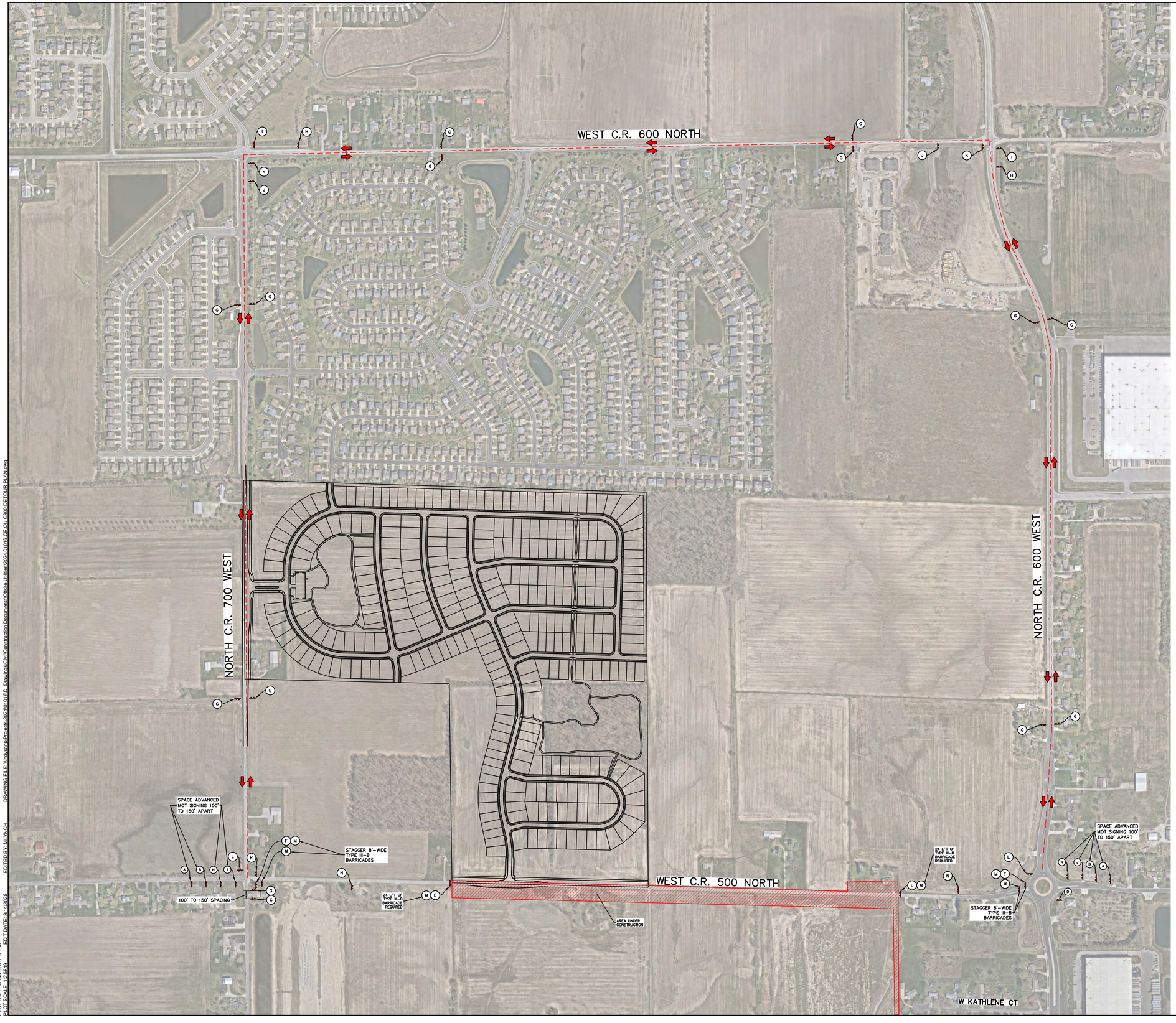


EROSION CONTROL PLAN

C604

PLOT DATE: 8/22/2025 11:37 AM
PLOT SCALE: 1:2.3849
EDIT DATE: 8/22/2025
EDITED BY: MLYNCH
DRAWING FILE: \\nas\SANP\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016 CE OU C601 ECP.dwg



0' 300' 600'
SCALE: 1"=300'

A — ROAD CLOSED AHEAD — XW 20-3 (48"x48")

B — DETOUR AHEAD — XW 20-2 (48"x48")

C — W CR 500 NORTH ROAD WEST CLOSED FOLLOW DETOUR — R11-3a Mod. (60"x30")

D — W CR 500 NORTH ROAD EAST CLOSED FOLLOW DETOUR — R11-3a Mod. (60"x30")

E — ROAD CLOSED — R11-2 (48"x30") W/ TYPE "B" WARNING LIGHT

F — ROAD CLOSED TO THRU TRAFFIC (DETOUR) — R11-4 (60"x30") XM 4-10 (L OR R) (36"x 12") W/ TYPE "B" WARNING LIGHT

G — DETOUR / W CR 500 N RD — XM 4-8 XD 3-1 M 6-3

H — DETOUR / W CR 500 N RD — XM 4-8 XD 3-1 M 5-1 (L)

I — DETOUR / W CR 500 N RD — XM 4-8 XD 3-1 M 6-1 (L)

J — DETOUR / W CR 500 N RD — XM 4-8 XD 3-1 M 5-1 (R)

K — DETOUR / W CR 500 N RD — XM 4-8 XD 3-1 M 6-1 (R)

L — END DETOUR / W CR 500 N RD — XM 4-6 XM 4-8 XD 3-1

M — TYPE III-B BARRICADE

N — W CR 500 NORTH ROAD CLOSED ON OR AFTER (DATE) — XG20-5 (60"x36") *REQUIRED AT EACH END OF CLOSURE PRIOR TO CONSTRUCTION*

ARBOR HOMES
9225 HARRISON PARK COURT
INDIANAPOLIS, IN 46216

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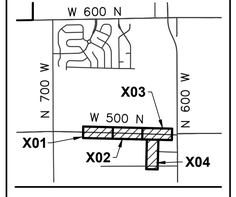

W CR 500 NORTH DETOUR PLAN

C800

PLOT DATE: 8/14/2025 5:17 PM
PLOT SCALE: 1:2.5849
EDIT DATE: 8/14/2025
EDITED BY: ML YNCH
DRAWING FILE: \\Indyvamp\Projects\2024\01016\D Drawings\Civil\Construction Documents\Offsite Utilities\2024.01016_CE_OU_C800_DETOUR PLAN.dwg