

CONSTRUCTION PLANS

FOR

5 SOUTH LOGISTICS CENT

STATE ROAD 44 & FOREST ROAD
FRANKLIN, INDIANA



GDI CONSTRUCTION

**9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256**

317.567.6100

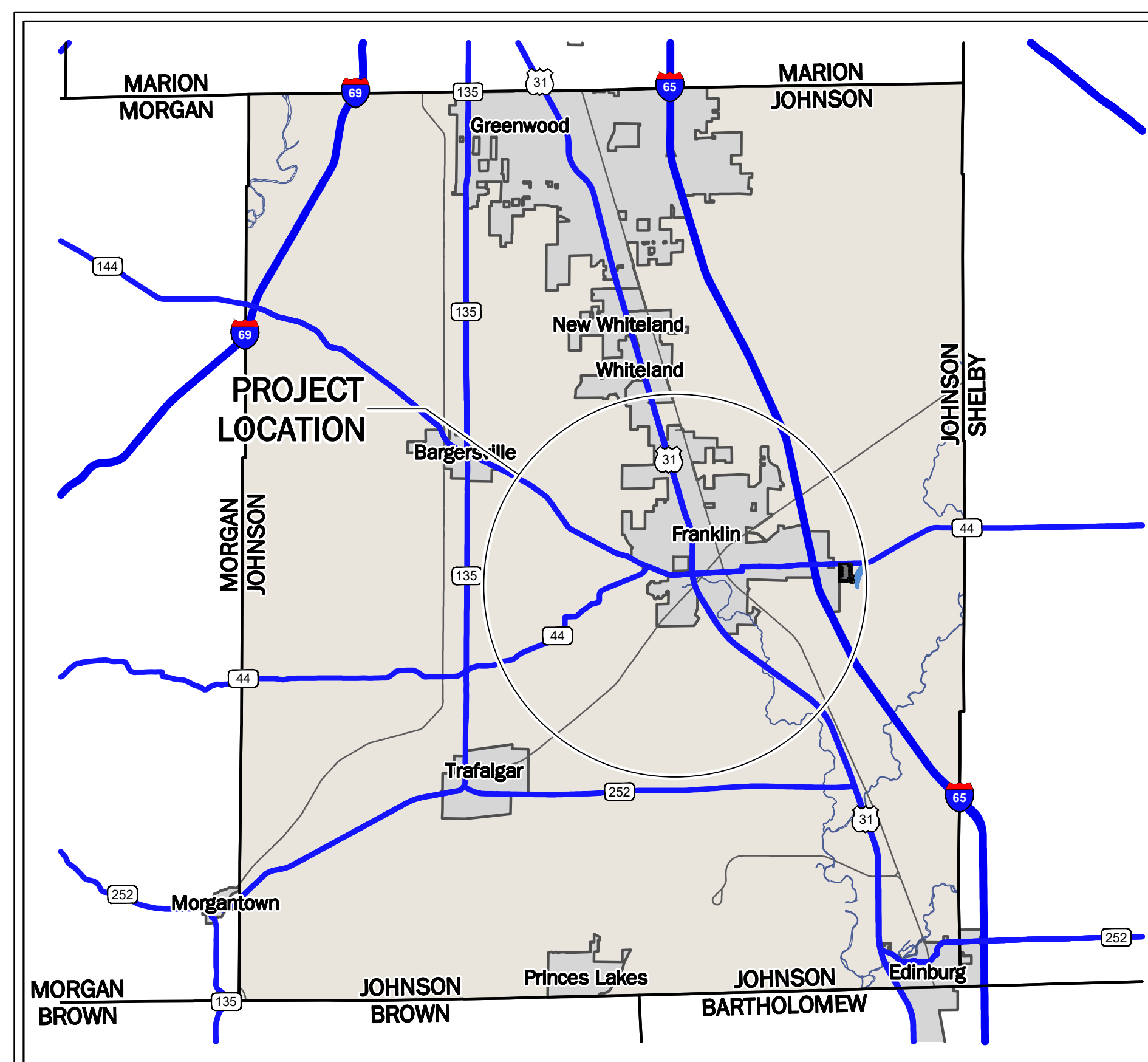


AMERICAN
STRUCTUREPOINT
INC.

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

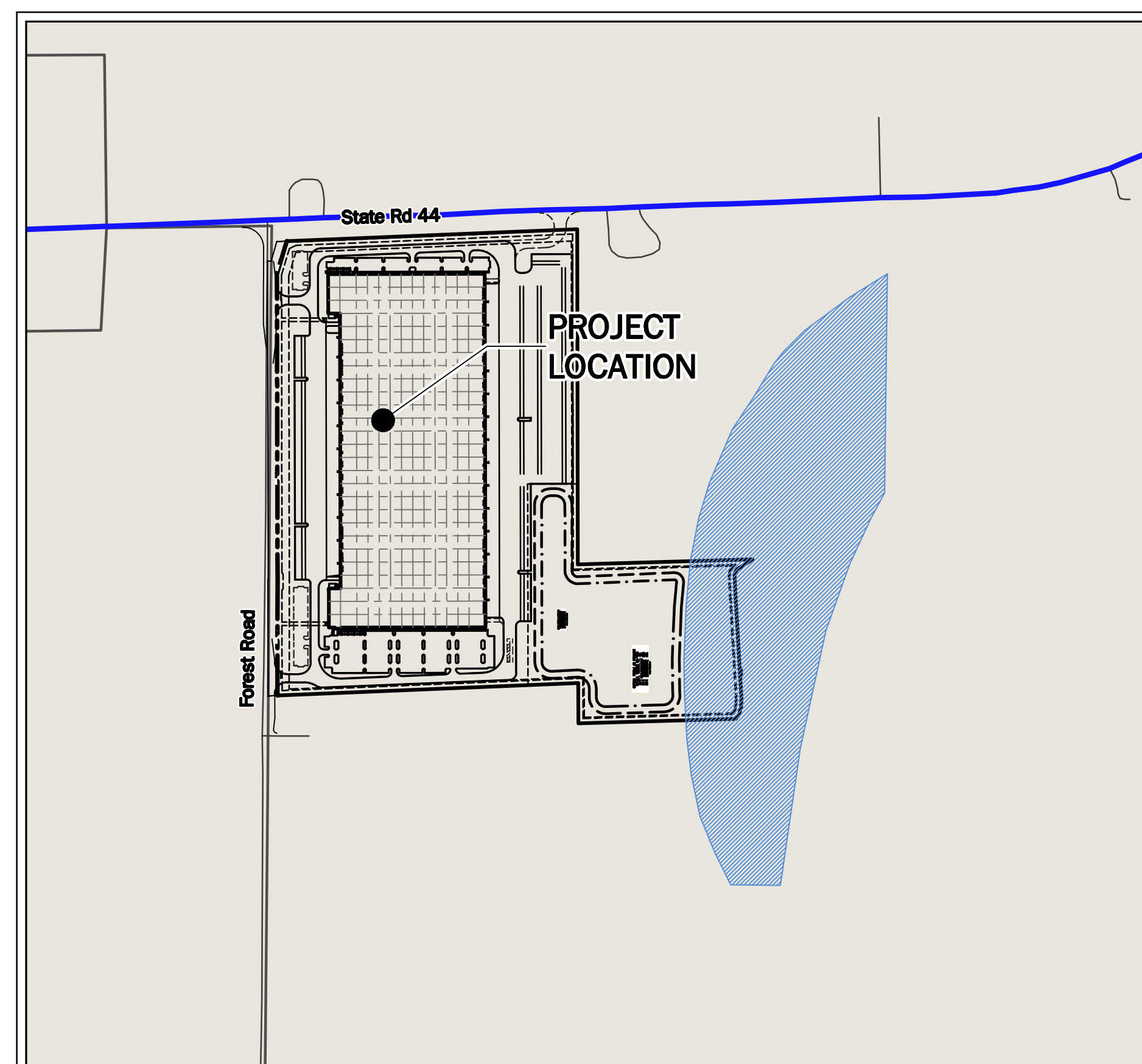
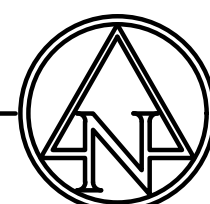
**I-65 SOUTH
LOGISTICS CENTER
LOT 1**

81/89 Forest Road
Franklin, Indiana



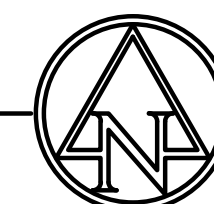
LOCATION MAP

NOT TO SCALE

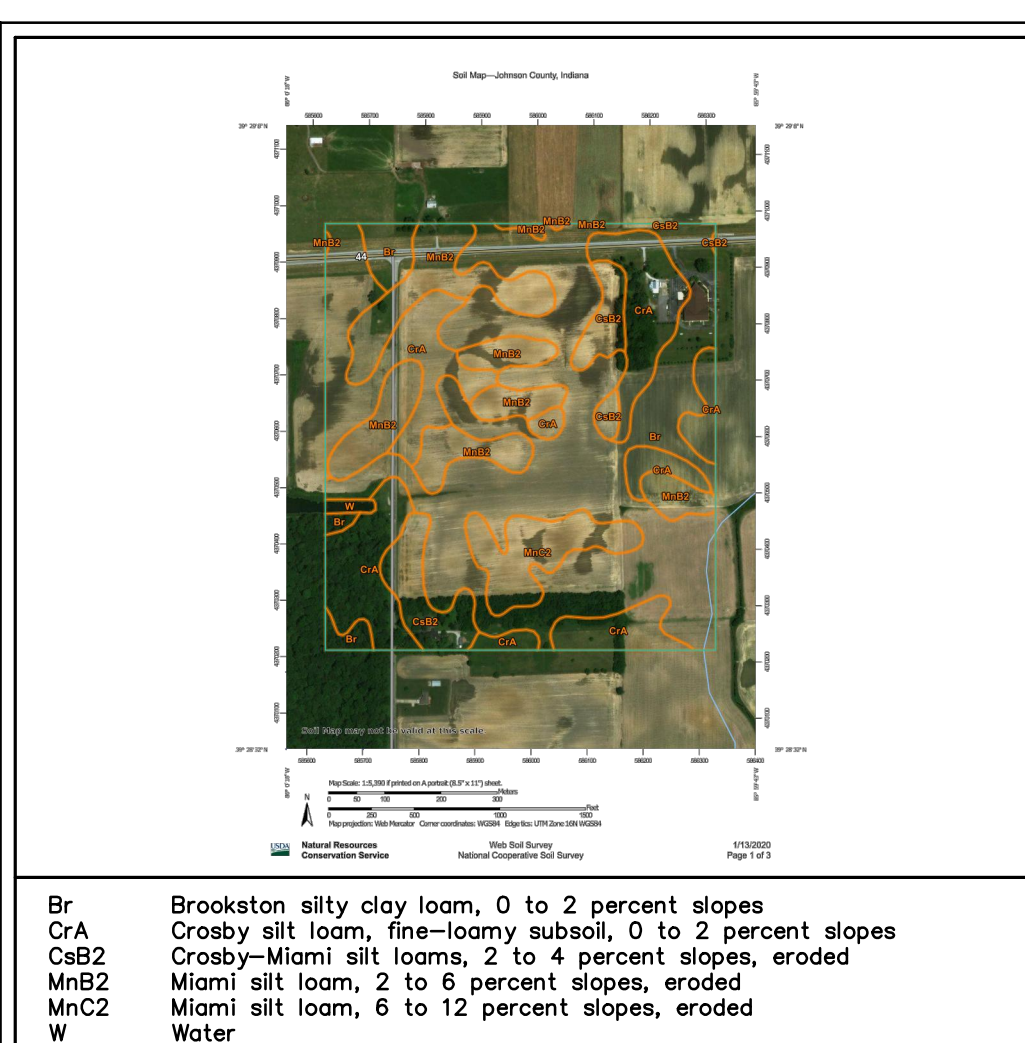


VICINITY MAP

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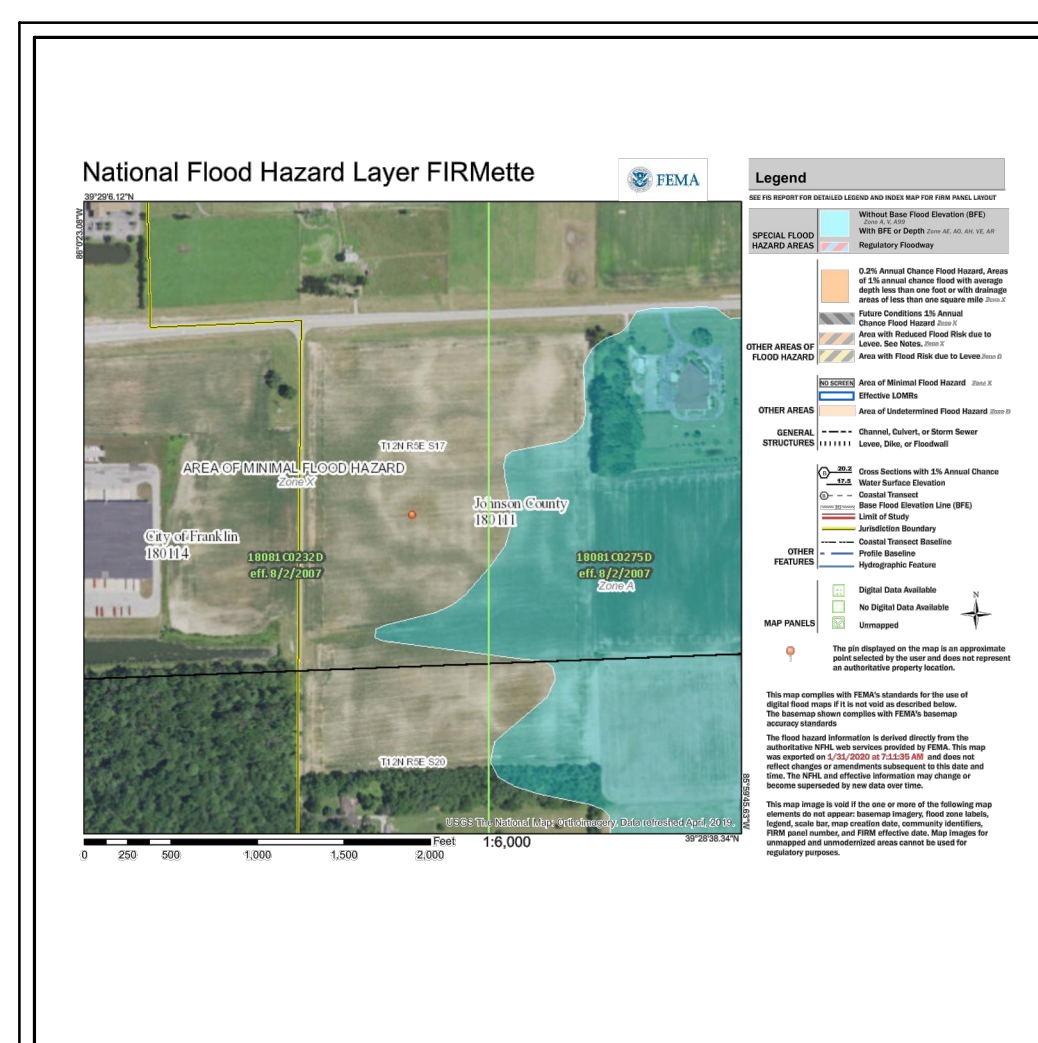


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SOILS MAP

NOT TO SCALE



FEMA MAP

NOT TO SCALE

UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLK)	BRUCE EMERICK	(574) 926-1241
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6173
GAS	VECTREN	JON EASTHAM	(765) 287-2111
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3644
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3644
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2400

GENERAL NOTES

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND 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

ISSUANCE INDEX
DATE:
04/07/2021
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

[illegible]

Project Number	2019.02798
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TITLE SHEET

C001

PLOT DATE: 4/8/2021 12:14 PM
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 LOT SCALE: 1:2,5849
 EDITED BY: MIRVING
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DRAWING FILE: p:\2019\02798\Drawings\Construction\document\2019_02798_CE_C002.GEN.dwg
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PLOT SCALE: 1:2=5849
EDIT DATE: 1/30/2020
EDITED BY: DVALACE

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: 2019.02798 DATED: JANUARY 3, 2020.
2. ADDITIONAL TOPOGRAPHY IS PROVIDED BY: WEIHE ENGINEERS, PROJECT: W200190, DATED: JUNE 12, 2020.

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 FACE 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 GROSS SLOPE OF 1:50 AND MAXIMUM LONGITUDINAL SLOPE OF 1:20.
16. CHAMFER ALL ENDS OF CURBS.

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 GEOTECHNICAL 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 CITY OF FRANKLIN 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/IS NOT LOCATED WITHIN ANY FLOODPLAIN, FLOODWAY OR FLOODWAY FRINGE AS INDICATED ON THE FLOOD INSURANCE RATE MAP (FIRM) FOR JOHNSON COUNTY, IN, MAP NUMBER 18081C01440, DATED AUGUST 2, 2007.
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 SEEDS 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 CITY OF FRANKLIN 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.

WATER UTILITY INSTALLATION NOTES

- Rev 06-17-2019
1. INSTALLATION OF WATER MAIN, FITTINGS, VALVES, FIRE HYDRANTS, AND APPURTENANCES SHALL BE IN ACCORDANCE WITH INDIANA AMERICAN WATER STANDARDS AND SPECIFICATIONS, LATEST REVISION.
 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION, SIZE AND MATERIAL OF THE EXISTING WATER MAIN PRIOR TO CONSTRUCTION.
 3. FOR DUCTILE IRON PIPE INSTALLATION: THICKNESS CLASS 52 FOR TYPICAL DISTRIBUTION MAINS 12-INCH NOMINAL SIZE AND SMALLER. WHEN RESTRAINT OF PIPE-TO-PIPE JOINTS ARE REQUIRED, PUSH-ON RESTRAINING GASKETS WITH INTEGRAL STAINLESS STEEL LOCKING SEGMENTS ARE PERMITTED ON PIPE-TO-PIPE CONNECTIONS 12-INCH NOMINAL SIZE AND SMALLER ONLY. PIPE-TO-PIPE CONNECTIONS GREATER THAN 12-INCH NOMINAL SIZE SHALL BE RESTRAINED PER SPECIFICATION SECTION 15105.
 4. ENCASE ALL DUCTILE IRON PIPING, DUCTILE IRON FITTINGS, VALVES, HYDRANTS, AND ALL OTHER METALLIC APPURTENANCES IN 12MIL POLYETHYLENE.
 5. ALL FIRE HYDRANT LATERALS SHALL BE DUCTILE IRON PIPE.
 6. ALL MJ T-BOLTS AND FLANGE BOLTS SHALL HAVE Xylan OR FLUOROKOTE #1 CORROSION RESISTANT COATING.
 7. ALL FITTINGS SHALL BE RESTRAINED USING MJ RETAINER GLANDS OR POURED CONCRETE THRUST BLOCKS.
 8. COPPER-CLAD STEEL TRACER WIRE REQUIRED ON INSTALLATION OF ALL PIPE. TRACER WIRE SHALL BE TAPED TO PIPE OR POLYETHYLENE ENCASEMENT AT A MINIMUM SPACING OF 10- FEET. SPLICES SHALL BE ENCASED IN WATERPROOF CONNECTORS. CONTINUITY SHALL BE TESTED AFTER COMPLETION OF BACKFILL.
 9. SELECT FILL MATERIAL REQUIRED FOR FINAL BACKFILL WHEN WITHIN 5- FEET OF PAVEMENT PER SPECIFICATION SECTION 02210.
 10. MAINTAIN THE REQUIRED 10- FEET OF HORIZONTAL SEPARATION AND 18- INCHES OF VERTICAL SEPARATION FROM SANITARY AND STORM SEWERS. MAINTAIN 8- FEET OF HORIZONTAL SEPARATION FROM SANITARY AND STORM STRUCTURES. SEE 327 IAC 8-3.2-9 OF THE INDIANA ADMINISTRATIVE CODE FOR MORE INFORMATION.
 11. MAINTAIN MINIMUM COVER DEPTH OF X" AND A MAXIMUM OF X"+24".

EXISTING LEGEND

	BEEHIVE INLET		STAND PIPE
	COMBINATION POLE		STUMP
	ELECTRIC METER BOX		SUB SURFACE DRAIN
	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE		TEST HOLE
	HOSE BIB		TELEPHONE MARKER SIGN
	INLET		TELEPHONE PEDESTAL
	MAILBOX		TRANSFORMER
	PINE		TREE
	POST		VENT
	POWER POLE		WELL
	RIGHT OF WAY MONUMENT		
	SIGN		

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARKTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

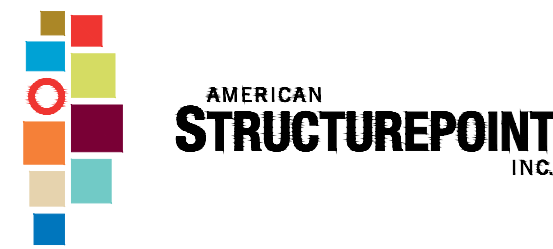
ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93



GDI CONSTRUCTION

9775 Crosspoint Blvd
Suite 105
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TEL 317.547.5580 | FAX 317.543.0270
www.structurepointinc.com

I-65 SOUTH
LOGISTICS CENTER
LOT 1

81/89 Forest Road
Franklin, Indiana



CERTIFIED BY

ISSUANCE INDEX

DATE:
04/07/2021
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

GENERAL NOTES

C002

GEOTECHNICAL & ENVIRONMENTAL NOTE:

1. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR INFORMATION ABOUT SOIL CONDITIONS.

GENERAL NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
2. CONTRACTOR TO VERIFY LOCATION, SIZE AND 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.

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"811" OR 1-800-382-5544
- INDIANA UNDERGROUND -

DRAWING FILE: P:\2019\0278\88 - drawings\01\Construction document\2019.0278-88_C000_SPECS.dwg EDIT DATE: 11/30/2020 PLOT DATE: 4/8/2021 12:15 PM PLOT SCALE: 1:2.5849	EARTHWORK:		TO BE 6-INCHES UNLESS OTHERWISE INDICATED ON DRAWINGS.		ASPHALT PAVING (CONT.):		CONCRETE PAVING (CONT.):		
	A. GENERAL		STORM SEWER (CONT.):		5. COMPACTION		7. CONCRETE MIXING		
1. EARTHWORK INCLUDES CLEARING, CRUBBING, 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 THE CITY OF FRANKLIN STANDARDS, THE STANDARDS OF THE JURISDICTION HAVING AUTHORITY SHALL PREVAIL.		B. EXECUTION	
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.		1. EXAMINATION AND PREPARATION	
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. DISPOSE OF TOPSOIL AWAY FROM EXCAVATIONS WITHOUT INTERMINGLING 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.		1. PROF-ROLL PREPARED SUBBASE SURFACE BELOW CONCRETE PAVING TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING.	
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.		2. EDGE FORMS AND SCREED CONSTRUCTION	
7. BACKFILL ALL UTILITY TRENCHES BENEATH PAVEMENT (AND WITHIN 5') WITH GRANULAR MATERIAL.		8. SOIL FILL: USE SATISFACTORY SOIL MATERIAL UNDER ALL WALKS, PAVEMENTS, STEPS, RAMPS, BUILDING SLABS, FOOTINGS, AND FOUNDATIONS.		9. 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, TOPKILL TOPSOIL, AWAY FROM EXCAVATIONS THAT EXCEEDS OPTIMUM MOISTURE CONTENT BY 2 PERCENT AND IS TOO WET TO COMPACT TO SPECIFIED UNIT WEIGHT.		10. 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-698 (STANDARD PROCTOR DENSITY). COMPACT ALL FILL MATERIALS BELOW TURF OR UNPAVED AREAS TO 90 PERCENT OF THE MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D-698 (STANDARD PROCTOR DENSITY). ALL FILL MATERIALS TO BE COMPACTED IN MAXIMUM 8-INCH LIFTS.		1. 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. CLEAN FORMS AFTER EACH USE AND COAT WITH FORM-RELEASE AGENT TO ENSURE SEPARATION FROM CONCRETE WITHOUT DAMAGE.	
11. SITE ROUGH GRADING: SLOPE GRADES TO DIRECT WATER AWAY FROM BUILDINGS AND TO PREVENT PONDING. FINISH SUBGRADES TO THE FOLLOWING TOLERANCES:		I. TURF OR UNPAVED AREAS: PLUS OR MINUS 1/2 INCH		II. WALKS: PLUS OR MINUS 1/2 INCH		III. PAVEMENTS: PLUS OR MINUS 1/2 INCH		3. STEEL REINFORCEMENT	
12. QUALITY CONTROL: QUALIFIED GEOTECHNICAL ENGINEER TO BE ENGAGED AS TESTING AGENCY AS DIRECTED BY OWNER.		13. 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:		CONCRETE PROTECTION AND CURING		4. JOINTS	
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.		1. GENERAL: FORM CONSTRUCTION, ISOLATION, AND CONTRACTION JOINTS AND TOOL EDGES TRUE TO LINE, WITH FLANS PERPENDICULAR TO SURFACE PLANE OF CONCRETE. CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE UNLESS OTHERWISE INDICATED.	
B. PRODUCTS		1. PE PIPE AND FITTINGS: PE DRAINAGE PIPE AND FITTINGS NP 3 TO NPS 10, AASHTO M 252M, TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS. PE DRAINAGE PIPE AND FITTINGS NPS 12 TO NPS 60, AASHTO M 294M, TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS.		2. PVC PIPE AND FITTINGS: PIPE: ASTM F 949, PVC, OR ASTM 0-3034, F-1336, F-679, CORRUGATED PIPE WITH BELL AND SPIGOT ENDS FOR GASKETED JOINTS. FITTINGS: ASTM 949, PVC MOLDED OR FABRICATED, SOCKET TYPE. GASKETS: ASTM F 477, ELASTOMERIC SEALS.		3. 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.		II. PROF-ROLL PREPARED SUBBASE SURFACE BELOW CONCRETE PAVING TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING.	
4. 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.		5. CLEANOUTS: CAST IRON CLEANOUTS: ASME A112.36.2M ROUND, GRAY-IRON HOUSING WITH CLAMPING DEVICE AND ROUND, SECURED, SCAROTED, GRAY-IRON COVER. HEAVY DUTY TOP LOADING IS REQUIRED. PLASTIC CLEANOUTS: PVC BODY WITH PVC THREADED PLUG.		6. 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 RINGS 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.		7. CONCRETE: CAST-IN-PLACE CONCRETE ACCORDING TO ACI 318 AND ACI 350/350R AND IN ACCORDANCE WITH THE FOLLOWING:		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.	
8. 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.		9. 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.		10. INLETS: PROVIDE INLETS WITH HEAVY DUTY CASTINGS AS SHOWN ON DRAWINGS.		11. 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		IV. 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. CONSTRUCTION		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."		V. FINISH ROLLING: FINISH ROLL PAVED SURFACES TO REMOVE ROLLER MARKS WHILE HOT-MIX ASPHALT IS STILL WARM.	
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. JOIN 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 5 PERCENT OF PIPING DIAMETER.		VI. ERECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME MARKED.	
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, UN-B-6, AND THE FOLLOWING:		I. EXCEPT PIPING WITH SOIL COAT, 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 1242		VII. FIELD QUALITY CONTROL	
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.		II. TESTING AGENCY: CONTRACTOR TO ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS.	
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-FURNACE SLAG.		III. SURFACE SMOOTHNESS: FINISHED SURFACE OF EACH HOT-MIX ASPHALT COURSE WILL BE TESTED FOR COMPLIANCE WITH SMOOTHNESS TOLERANCES.	
I. FINE AGGREGATE: ASTM D 1073 OR AASHTO M 29, SHARP-EDGED NATURAL SAND OR SAND PREPARED FROM STONE, CURED BLAST-FURNACE SLAG, OR COMBINATIONS THEREOF.		II. 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.		4. ASPHALT BINDER: AASHTO M 320, PG 64-22 (OR AS OTHERWISE RECOMMENDED BY INDOT STANDARDS)		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.	
I. ASPHALT CEMENT: PER INDOT STANDARDS		II. OUTBACK PRIME COAT: PER INDOT STANDARDS		III. EMULSIFIED ASPHALT PRIME COAT: PER INDOT STANDARDS		IV. TACK COAT: PER INDOT STANDARDS		V. WATER: POTABLE.	
V. 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: CONDUCT HERBICIDE TREATMENT 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.		VI. RECYCLED CONTENT OF HOT-MIX ASPHALT: PER INDOT STANDARDS	
I. HOT-MIX ASPHALT: DENSE-GRADED, HOT-LAD, HOT-MIX ASPHALT PLANT MIXES		II. 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)		III. HANDICAP STANDARDS: 25.0 MM OR 19.0 MM (AS INDICATED ON DRAWINGS)	
I. SURFACE COURSE: 9.5MM		C. EXECUTION		1. EXAMINATION		I. VERIFY THAT SUBGRADE IS DRY AND IN SUITABLE CONDITION TO BEGIN PAVING.		II. PROF-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.	
I. PROOF-ROLL SUBGRADE IN ONE DIRECTION. LIMIT VEHICLE SPEED TO 3 MPH.		II. PROOF ROLL WITH A LOADED 10-WHEEL, TANDUM-AXLE DUMP TRUCK WEIGHING NOT LESS THAN 15 TONS.		III. 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.		IV. 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.		III. MIX HERBICIDE WITH PRIME COAT IF FORMULATED BY MANUFACTURER FOR THAT PURPOSE		IV. OUTBACK 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.		1. CEMENTITIOUS MATERIAL: USE THE FOLLOWING CEMENTITIOUS MATERIALS, OF SAME TYPE, BRAND, AND SOURCE THROUGHOUT PROJECT:	
I. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.		II. FLY ASH: ASTM C 618, CLASS F, CEMENTATION		III. GROUND GRANULATED BLAST-FURNACE SLAG: ASTM C 989, GRADE 100 OR 120.		IV. NORMAL-WEIGHT AGGREGATES: ASTM C 33, UNIFORMLY GRADED, AND AS FOLLOWS:		2. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
I. 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.		II. PROTECT PRIMED SUBSTRATE FROM DAMAGE UNTIL READY TO RECEIVE PAVING.		III. TACK COAT: APPLY UNIFORMLY TO SURFACES OF EXISTING PAVEMENT AT A RATE OF 0.05 TO 0.15 GAL./SQ. YD.		IV. ALLOW TACK COAT TO CURE UNDISTURBED BEFORE APPLYING HOT-MIX ASPHALT PAVING.		3. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
I. AVOID SMEARING OR STAINING ADJOINING SURFACES, APPURTENANCES, AND SURROUNDINGS. REMOVE SPILLAGES AND CLEAN EFFECTIVE SURFACES.		2. 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 OVERSPREADING. PLACE EACH COURSE TO REQUIRED GRADE, CROSS SECTION, AND THICKNESS WHEN COMPACTED.		II. PLACE HOT-MIX ASPHALT BASE COURSE IN NUMBER OF LIFTS AND THICKNESSES INDICATED.		4. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
I. PLACE HOT-MIX ASPHALT SURFACE COURSE IN SINGLE LIFT.		II. BEGIN APPLYING MIX ALONG CENTERLINE OF CROWN FOR CROWNED SECTIONS AND ON HIGH SIDE OF ONE-WAY SLOPES UNLESS OTHERWISE INDICATED.		III. USE CRUSHED LIMESTONE COARSE AGGREGATE FOR CONCRETE EXPOSED TO WEATHER.		IV. WHITE, WATERBORNE, MEMBRANE-FORMING CURING COMPOUND: ASTM C 309, TYPE 2, CLASS B, DISSIPATING.		5. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
I. PLACE PAVING IN CONSECUTIVE STRIPS NOT LESS THAN 10 FEET WIDE UNLESS INFILL EDGE STRIPS OF A LESSER WIDTH ARE REQUIRED.		II. AFTER FIRST STRIP HAS BEEN PLACED AND ROLLED, PLACE SUCCESSIVE 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.		III. COMPLETE A SECTION OF ASPHALT BASE COURSE BEFORE PLACING ASPHALT SURFACE COURSE.		IV. PROMPTLY CORRECT SURFACE IRREGULARITIES IN PAVING COURSE BEHIND PAYER. 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.		6. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
1. 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.		I. CLEAN CONTACT SURFACES AND APPLY TACK COAT TO JOINTS.		II. OFFSET LONGITUDINAL JOINTS, IN SUCCESSIVE COURSES, A MINIMUM OF 6 INCHES.		III. OFFSET TRANSVERSE JOINTS, IN SUCCESSIVE COURSES, A MINIMUM OF 24 INCHES.		7. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
I. CONSTRUCT TRANSVERSE JOINTS AT EACH POINT WHERE PAYER 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."		II. COMPACT JOINTS AS SOON AS HOT-MIX ASPHALT WILL BEAR ROLLER WEIGHT WITHOUT EXCESSIVE DISPLACEMENT.		III. COMPACT ASPHALT AT JOINTS TO A DENSITY WITHIN 2 PERCENT OF SPECIFIED COURSE DENSITY.		4. FIBER REINFORCEMENT		8. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
I. FIBROUS REINFORCEMENT: 100% VIRGIN HOMOPOLYMER POLYPROPYLENE MULTIFILAMENT FIBERS FOR SECONDARY REINFORCEMENT OF CONCRETE. ASTM 111, TYPE III. SHALL CONTAIN NO REPROCESSED OLEFIN MATERIALS.		II. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING: FIBERMESH 550; PROTEX 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.		9. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
I. PENETRATING ANTI-SPLALLING SEALER: THE SEALER SHALL BE A SILANE WATER BASED COMPOUND WHICH HAS A 95% 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.		II. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING: "WEATHER WORKER HEAVY-DUTY WB (J-27 WB)"; DAYTON SUPERIOR CORP., "ENVIROSEAL 20"; HYDROZEO 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:		10. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
I. COMPRESSIVE STRENGTH (28 DAYS): 4000 PSI (27.6 MPa).		WATER:		A. ALL WATER MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH INDIANA AMERICAN WATER STANDARDS AND SPECIFICATIONS, LATEST EDITION.		SANITARY:		11. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
A. ALL SANITARY MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS, LATEST EDITION.		DEMOLITION:		1. 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.		2. THE CONTRACTOR SHALL PROTECT AND NOT DESTROY PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.		12. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
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.		13. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
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.		14. PORTLAND CEMENT: ASTM C 150, PORTLAND CEMENT TYPE I.	
D. JOB CONDITIONS		1. 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.		2. STORAGE OR SALE OF REMOVED ITEMS WILL NOT BE PERMITTED ON SITE.		3. EXPLOSIVES: NOTE OF ANY (OR EXPLOSIVES WILL NOT BE PERMITTED.		15	



UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
GAS	VECTREN	JON EASTHAM	(765) 287-2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404

EXISTING LEGEND

BEEHIVE INLET

COMBINATION POLE

ELECTRIC METER BOX

GAS MARKER SIGN

GUY WIRE

HOSE BIB

INLET

MAILBOX

PINE

POST

POWER POLE

RIGHT OF WAY MONUMENT

SIGN

STAND PIPE

STUMP

SUB SURFACE DRAIN

TEMPORARY BENCH MARK

TEST HOLE

TELEPHONE MARKER SIGN

TELEPHONE PEDESTAL

TRANSFORMER

TREE

VENT

WELL

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INCCS JOHNSON COUNTY, IN

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ELEV = 721.56

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CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
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ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

LEGAL DESCRIPTION

Part of the East Half of the Southwest Quarter of Section 17 and part of the Northeast and Northwest Quarters of Section 20, all in Township 12 North, Range 5 East, Johnson County, Indiana, more particularly described as follows:

Commencing at a Mag Nail with a Johnson County Surveyor washer at the southwest corner of said East Half of the Southwest Quarter; thence North 87 degrees 19 minutes 26 seconds East 40.04 feet along the south line of said East Half (the basis of bearings is the Indiana Geospatial Coordinate System, "Johnson" zone) to the east right-of-way line of County Road 525 East as described in Instrument Number 2020-021484, on file in the Office of the Recorder of Johnson County, Indiana, which is the POINT OF BEGINNING; the following two (2) course are along said east right-of-way line; 1) thence North 00 degrees 07 minutes 05 seconds West 1,302.08 feet; 2) thence North 16 degrees 35 minutes 37 seconds East 147.52 feet to the south right-of-way line of State Road 44 as defined on the right-of-way plans for INDOT Project No. STP-068-4 (011) R/W, the following two (2) courses are along said south right-of-way line; 1) thence North 87 degrees 28 minutes 32 seconds East 28.96 feet; 2) thence North 87 degrees 39 minutes 19 seconds East 1,214.25 feet along said south right-of-way line to the east line of said Southwest Quarter; thence South 00 degrees 07 minutes 21 seconds East 1,434.36 feet along said east line to a fence post at the southeast corner of said Southwest Quarter; thence North 88 degrees 21 minutes 25 seconds East 747.55 feet along the north line of said Northeast Quarter; thence South 57 degrees 28 minutes 41 seconds West 77.77 feet; thence South 35 degrees 53 minutes 25 seconds West 15.34 feet; thence South 09 degrees 00 minutes 43 seconds West 16.09 feet; thence South 02 degrees 54 minutes 18 seconds East 92.76 feet; thence South 03 degrees 19 minutes 17 seconds East 432.37 feet; thence South 02 degrees 35 minutes 43 seconds West 36.87 feet; thence South 16 degrees 03 minutes 51 seconds West 34.52 feet; thence South 37 degrees 30 minutes 13 seconds West 22.07 feet; thence South 88 degrees 21 minutes 34 seconds West 21.50 feet; thence South 88 degrees 21 minutes 26 seconds West 651.84 feet to the west line of said Northeast Quarter; thence North 00 degrees 11 minutes 00 seconds West 172.08 feet along said west line to a 5/8-inch diameter rebar with no cap; thence South 87 degrees 39 minutes 19 seconds East 1,214.25 feet to said east right-of-way line; the following two (2) courses are along said east right-of-way line; 1) thence North 00 degrees 04 minutes 51 seconds East 498.52 feet; 2) thence North 00 degrees 07 minutes 05 seconds West 1.85 feet to the POINT OF BEGINNING. Containing 67.93 acres, more or less.

NOTE:

THE PROPOSED PLAT ACCEPTS A POINT, "NW CORNER OF THE SE 1/4 OF SEC. 20-T12N-R5E" AS A PROPERTY CORNER. THIS QUARTER SECTION APPEARS IN THE RECORDS OF THE JOHNSON COUNTY SURVEYOR AS A "MARKED STONE, 1830". ALL EFFORTS MUST BE MADE TO RECOVER AND PROTECT THIS STONE MONUMENT (JC ORD 2018-0-01).

GENERAL NOTES:

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

!! CAUTION !!

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Indianapolis, IN 46256

317.567.6100

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TEL 317.547.5580 | FAX 317.543.0270
www.structurepoint.com

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

CERTIFIED BY

Justin C. Clark

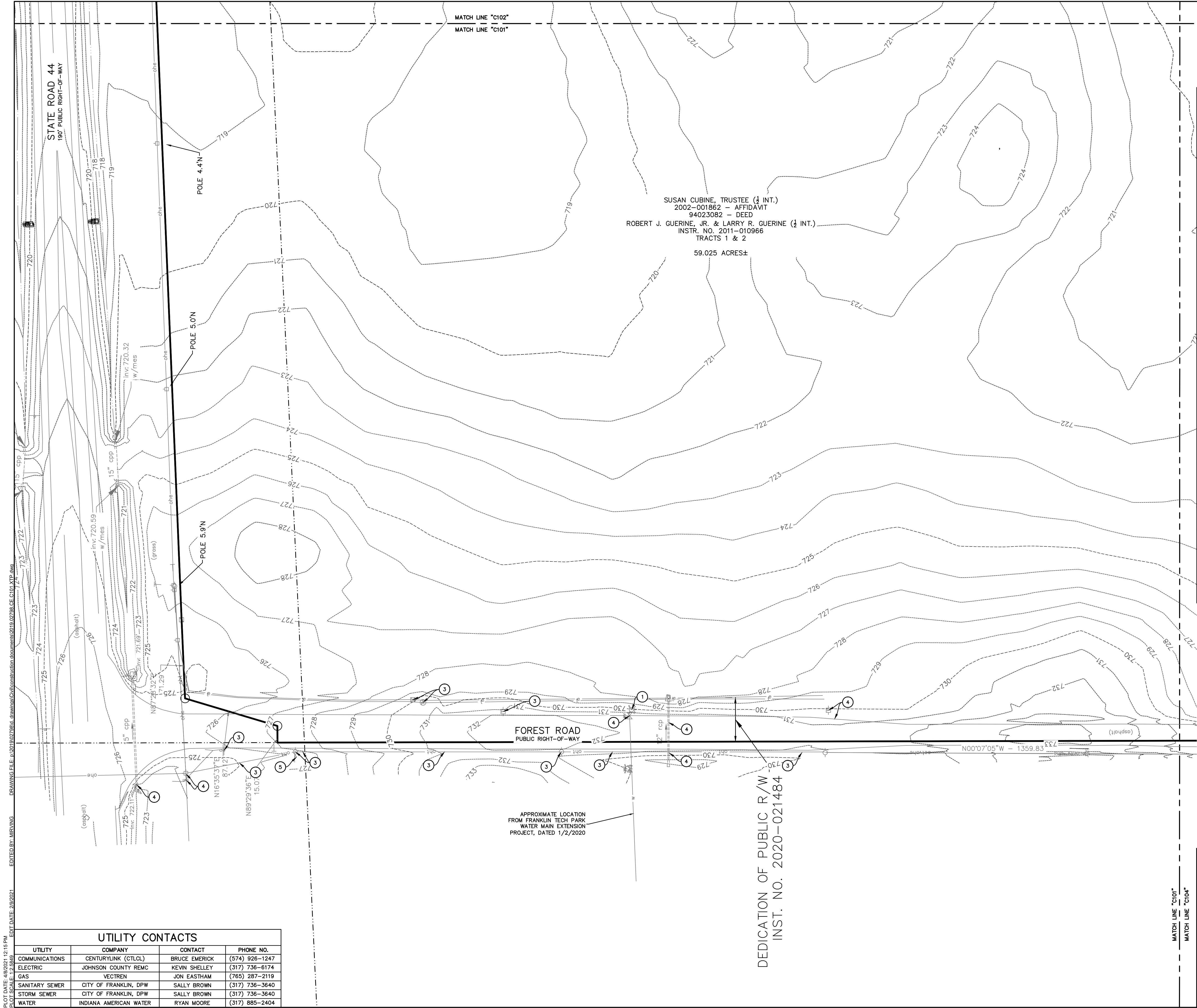
ISSUANCE INDEX	
DATE:	04/07/2021
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2019.02798

EXISTING TOPOGRAPHY

C100



EXISTING LEGEND

	BEEHIVE INLET		STAND PIPE
	COMBINATION POLE		STUMP
	ELECTRIC METER BOX		SUB SURFACE DRAIN
	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE		TEST HOLE
	HOSE BIB		TELEPHONE MARKER SIGN
	INLET		TELEPHONE PEDESTAL
	MAILBOX		TRANSFORMER
	PINE		TREE
	POST		VENT
	POWER POLE		WELL
	RIGHT OF WAY MONUMENT		
	SIGN		

BENCHMARK DATA

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DEMOLITION LEGEND

EXISTING PIPE TO BE REMOVED

KEYNOTES

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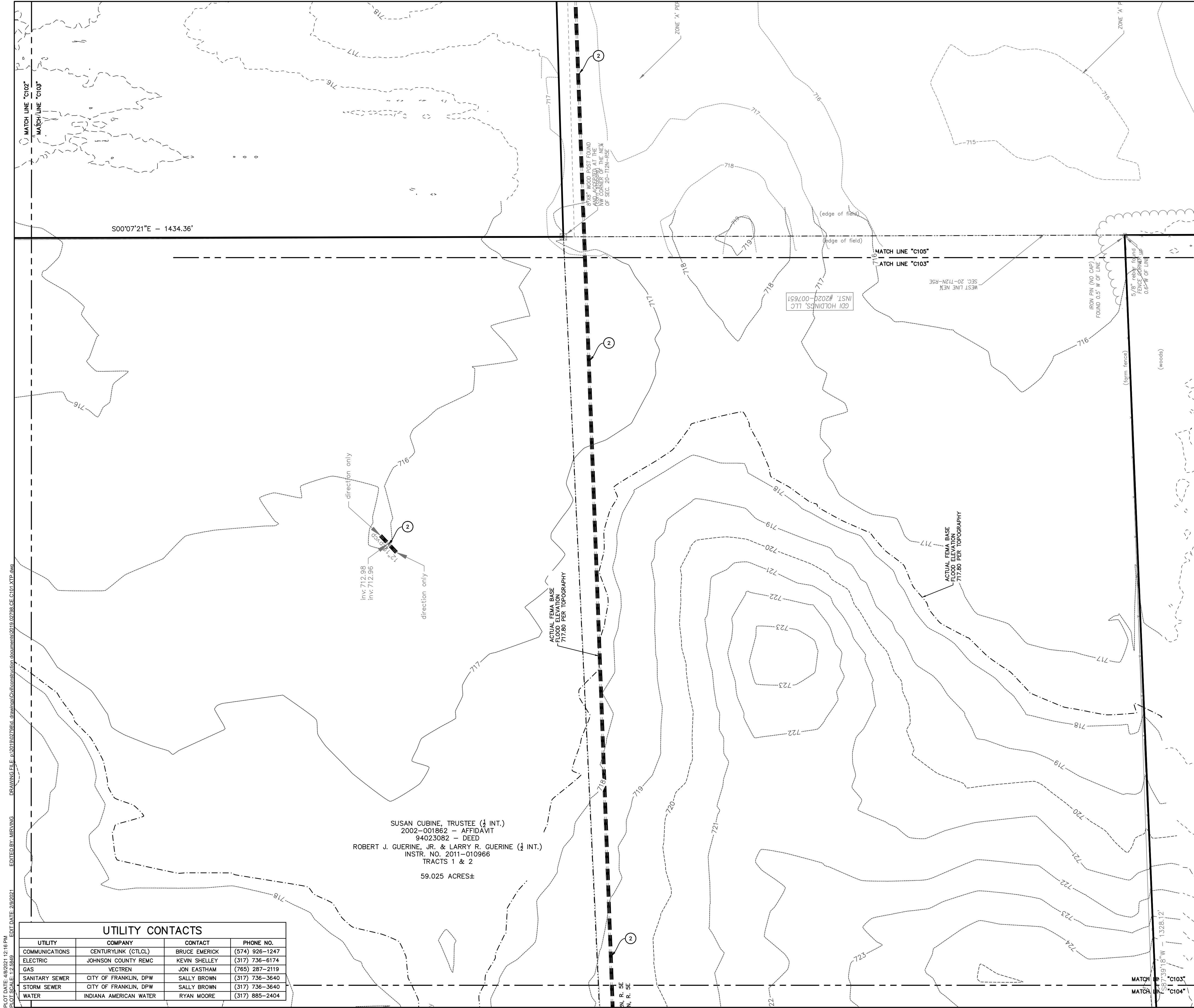
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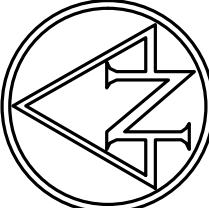
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DEMOLITION PLAN

C101

UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 928-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
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


























0' 40' 80'

SCALE: 1"=40'

EXISTING LEGEND

	BEEHIVE INLET		STAND PIPE
	COMBINATION POLE		STUMP
	ELECTRIC METER BOX		SUB SURFACE DRAIN
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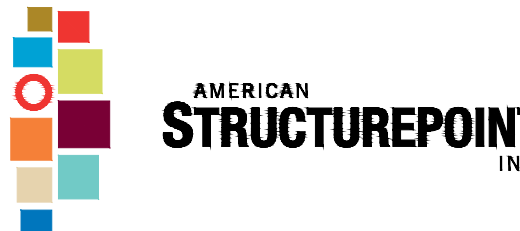
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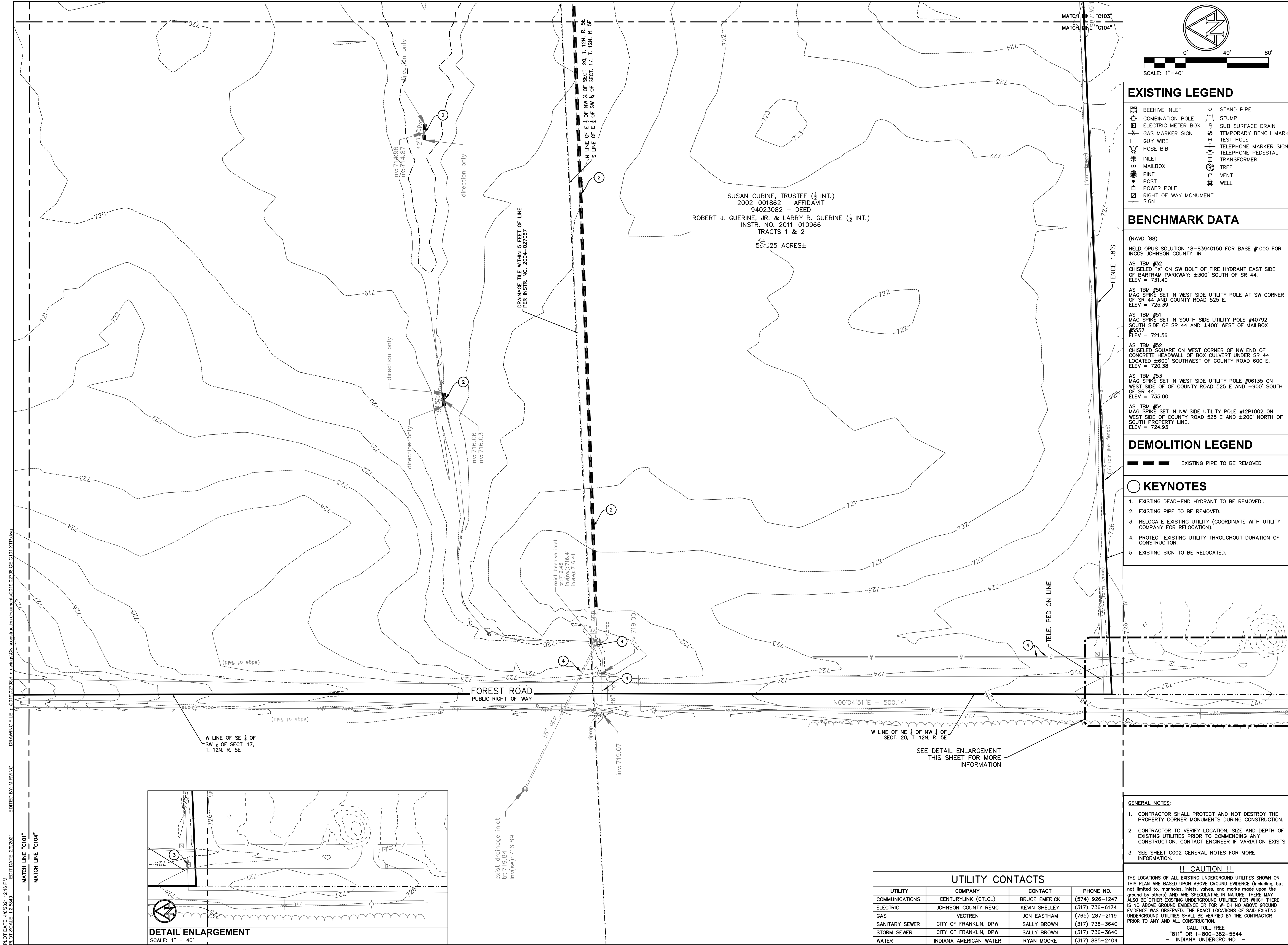
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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

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DEMOLITION PLAN

C103

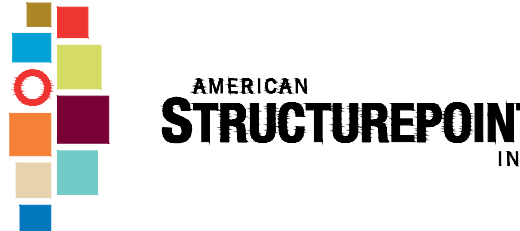




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Franklin, Indiana



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ISSUANCE INDEX

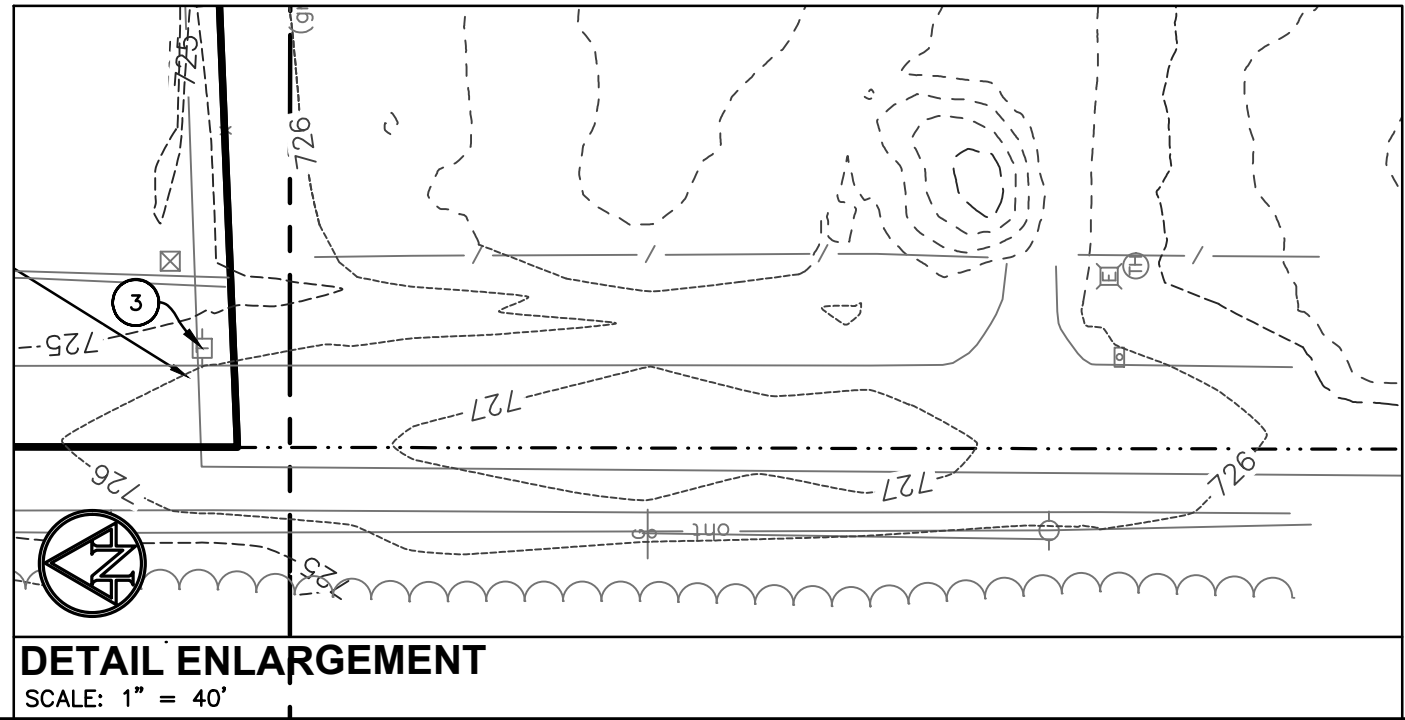
DATE:	04/07/2021
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

DEMOLITION PLAN

C104



UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
GAS	VECTREN	JON EASTHAM	(765) 287-2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404

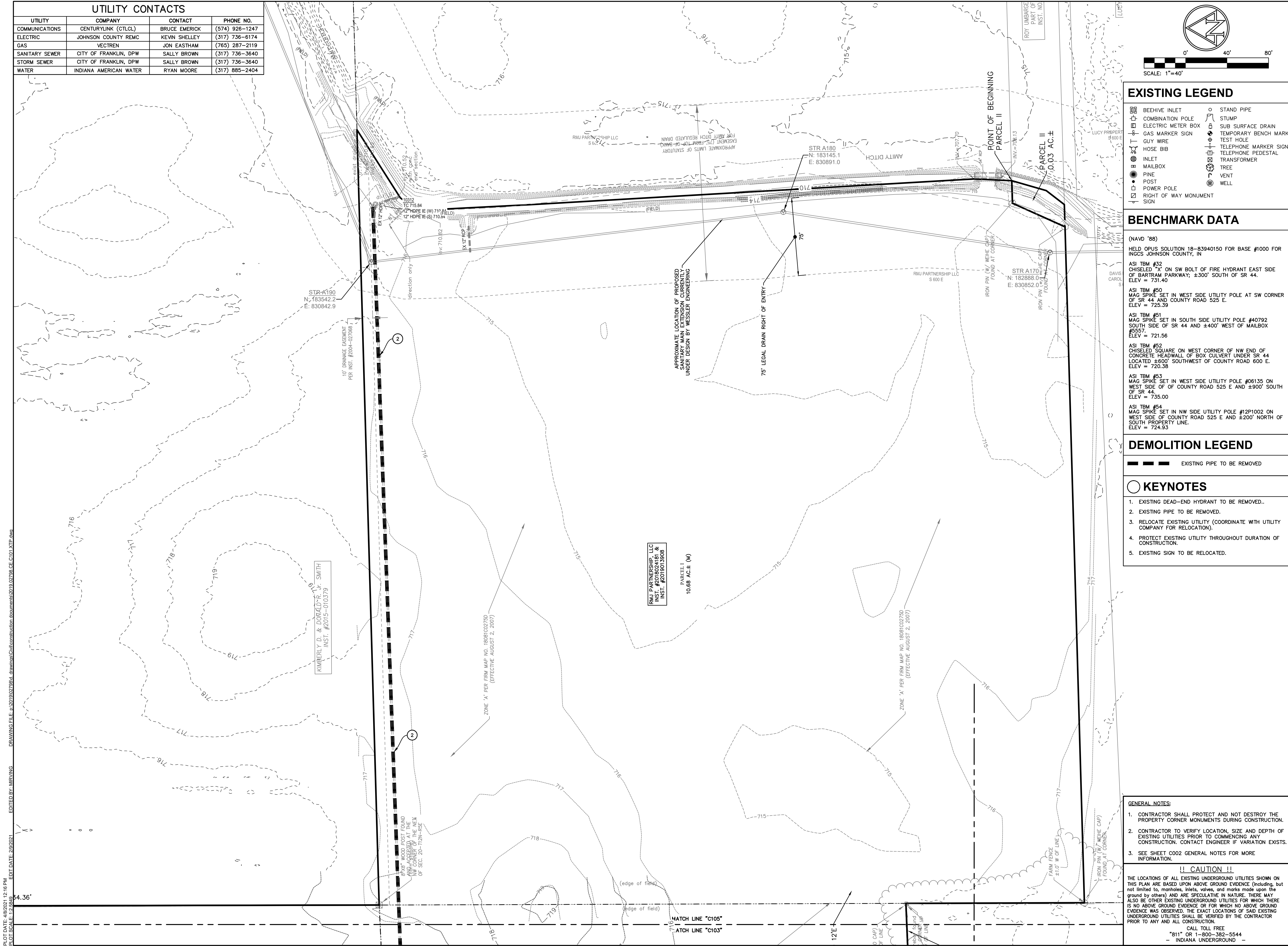
GENERAL NOTES:

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

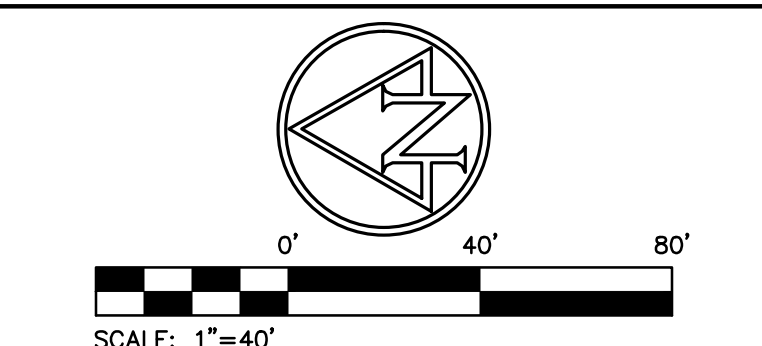
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"811" OR 1-800-382-5544
- INDIANA UNDERGROUND -



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EXISTING LEGEND	
	BEEHIVE INLET
	COMBINATION POLE
	ELECTRIC METER BOX
	GAS MARKER SIGN
	GUY WIRE
	HOSE BIB
	INLET
	MAILBOX
	PINE
	POST
	POWER POLE
	RIGHT OF WAY MONUMENT
	SIGN
	STAND PIPE
	STUMP
	SUB SURFACE DRAIN
	TEMPORARY BENCH MARK
	TEST HOLE
	TELEPHONE MARKER SIGN
	TELEPHONE PEDESTAL
	TRANSFORMER
	TREE
	VENT
	WELL

BENCHMARK DATA	
(NAVD '88)	
HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INDCS JOHNSON COUNTY, IN	
ASI TBM #32	CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44. ELEV = 731.40
ASI TBM #50	MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E. ELEV = 725.39
ASI TBM #51	MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557. ELEV = 721.56
ASI TBM #52	CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E. ELEV = 720.38
ASI TBM #53	MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44. ELEV = 735.00
ASI TBM #54	MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE. ELEV = 724.93

DEMOLITION LEGEND	
	EXISTING PIPE TO BE REMOVED
KEYNOTES	
1.	EXISTING DEAD-END HYDRANT TO BE REMOVED..
2.	EXISTING PIPE TO BE REMOVED.
3.	RELOCATE EXISTING UTILITY (COORDINATE WITH UTILITY COMPANY FOR RELOCATION).
4.	PROTECT EXISTING UTILITY THROUGHOUT DURATION OF CONSTRUCTION.
5.	EXISTING SIGN TO BE RELOCATED.

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JUSTIN D. CLARK

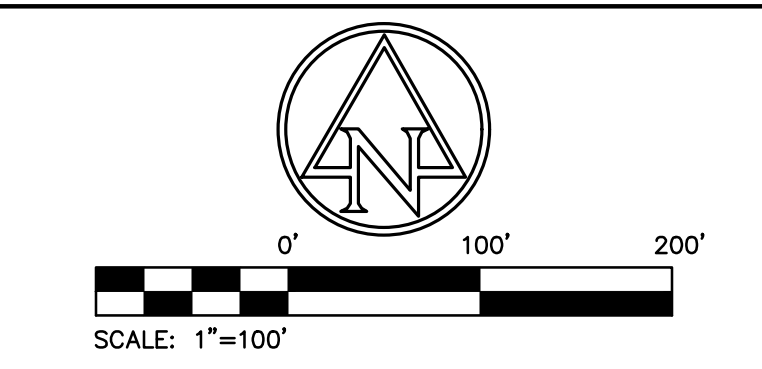
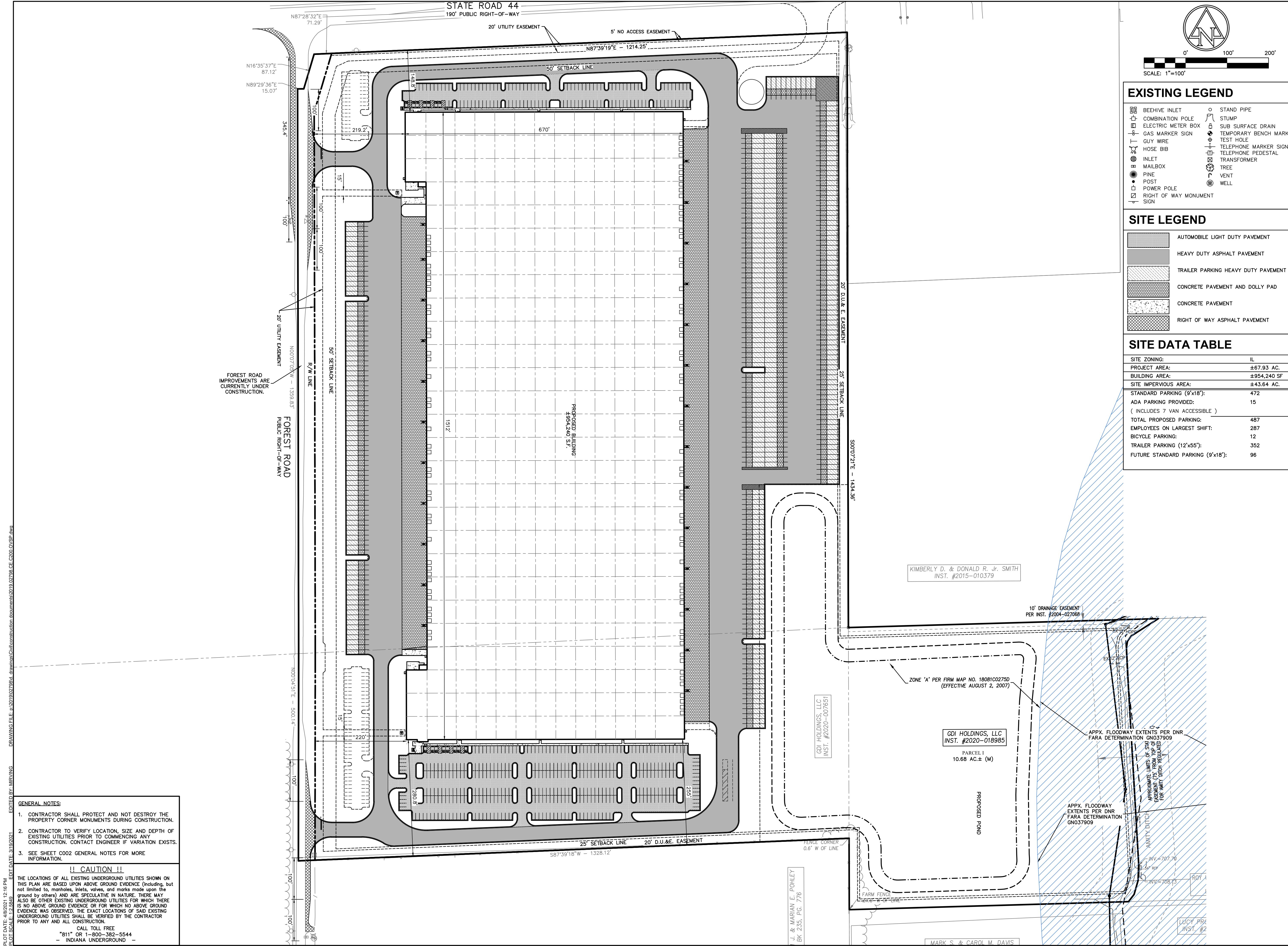
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Project Number 2019.02798

DEMOLITION PLAN

C105



EXISTING LEGEND	
	BEEHIVE INLET
	COMBINATION POLE
	ELECTRIC METER BOX
	GAS MARKER SIGN
	GUY WIRE
	HOSE BIB
	INLET
	MAILBOX
	PINE
	POST
	POWER POLE
	RIGHT OF WAY MONUMENT SIGN
	STAND PIPE
	STUMP
	SUB SURFACE DRAIN
	TEMPORARY BENCH MARK
	TEST HOLE
	TELEPHONE MARKER SIGN
	TELEPHONE PEDESTAL
	TRANSFORMER
	TREE
	VENT
	WELL

SITE LEGEND	
	AUTOMOBILE LIGHT DUTY PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	TRAILER PARKING HEAVY DUTY PAVEMENT
	CONCRETE PAVEMENT AND DOLLY PAD
	CONCRETE PAVEMENT
	RIGHT OF WAY ASPHALT PAVEMENT

SITE DATA TABLE	
SITE ZONING:	IL
PROJECT AREA:	±67.93 AC.
BUILDING AREA:	±954,240 SF
SITE IMPERVIOUS AREA:	±43.64 AC.
STANDARD PARKING (9'x18'):	472
ADA PARKING PROVIDED:	15
(INCLUDES 7 VAN ACCESSIBLE)	
TOTAL PROPOSED PARKING:	487
EMPLOYEES ON LARGEST SHIFT:	287
BICYCLE PARKING:	12
TRAILER PARKING (12'x55'):	352
FUTURE STANDARD PARKING (9'x18'):	96

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Justin D. Smith

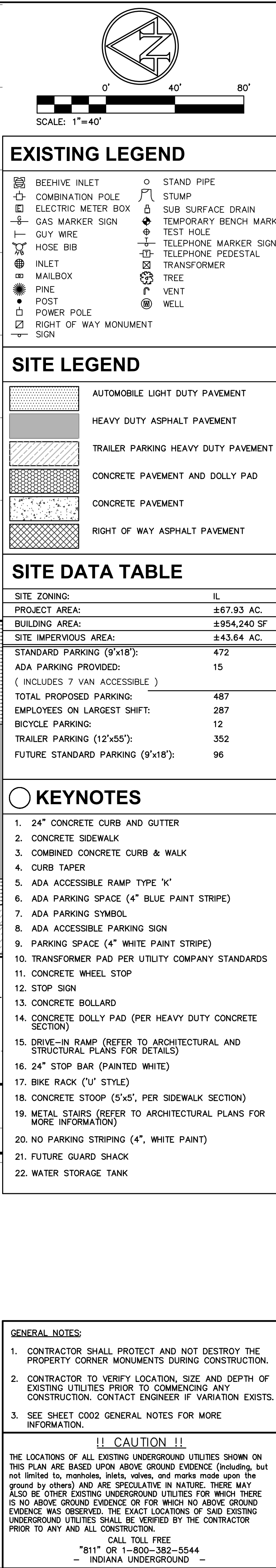
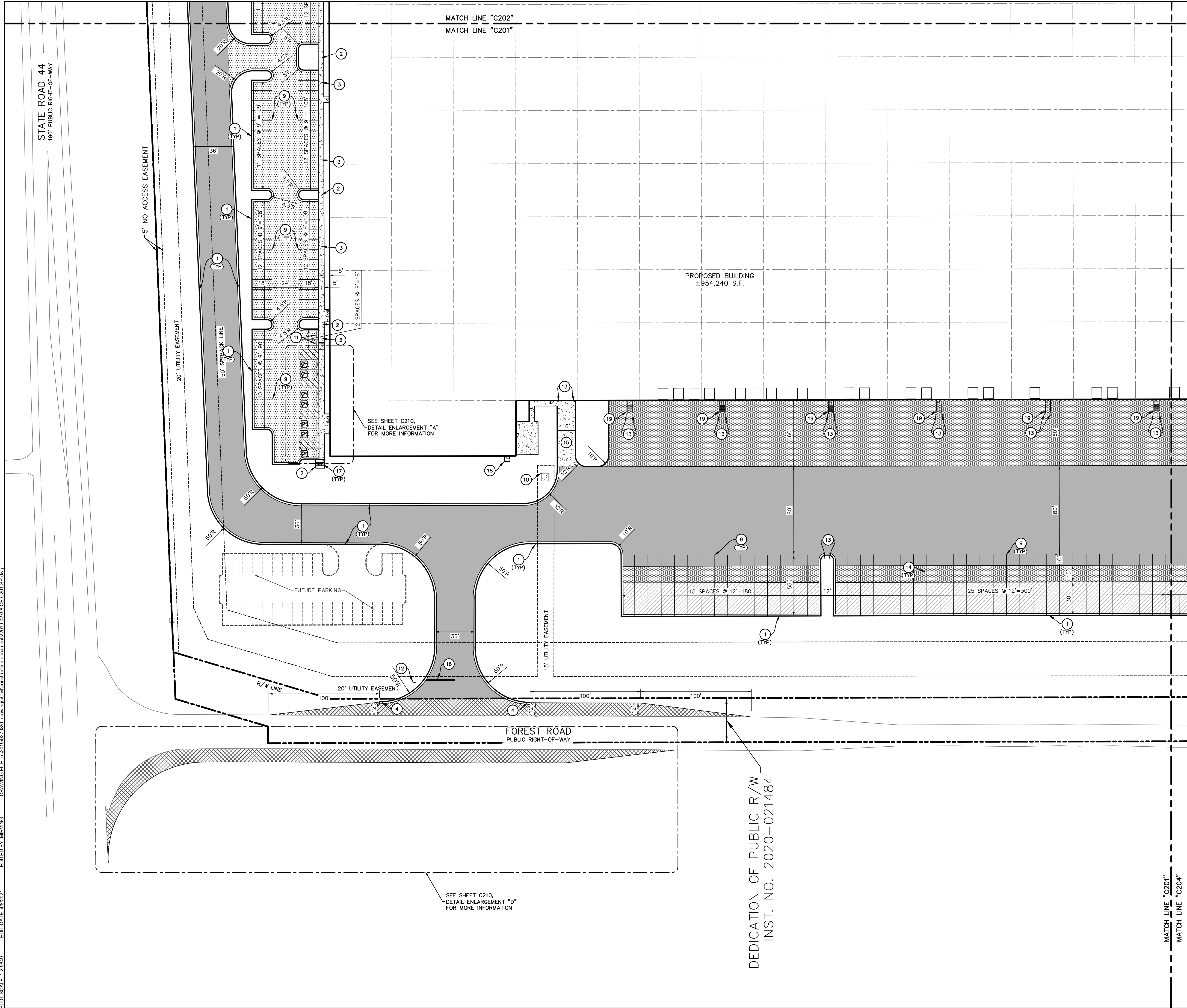
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OVERALL SITE PLAN

C200






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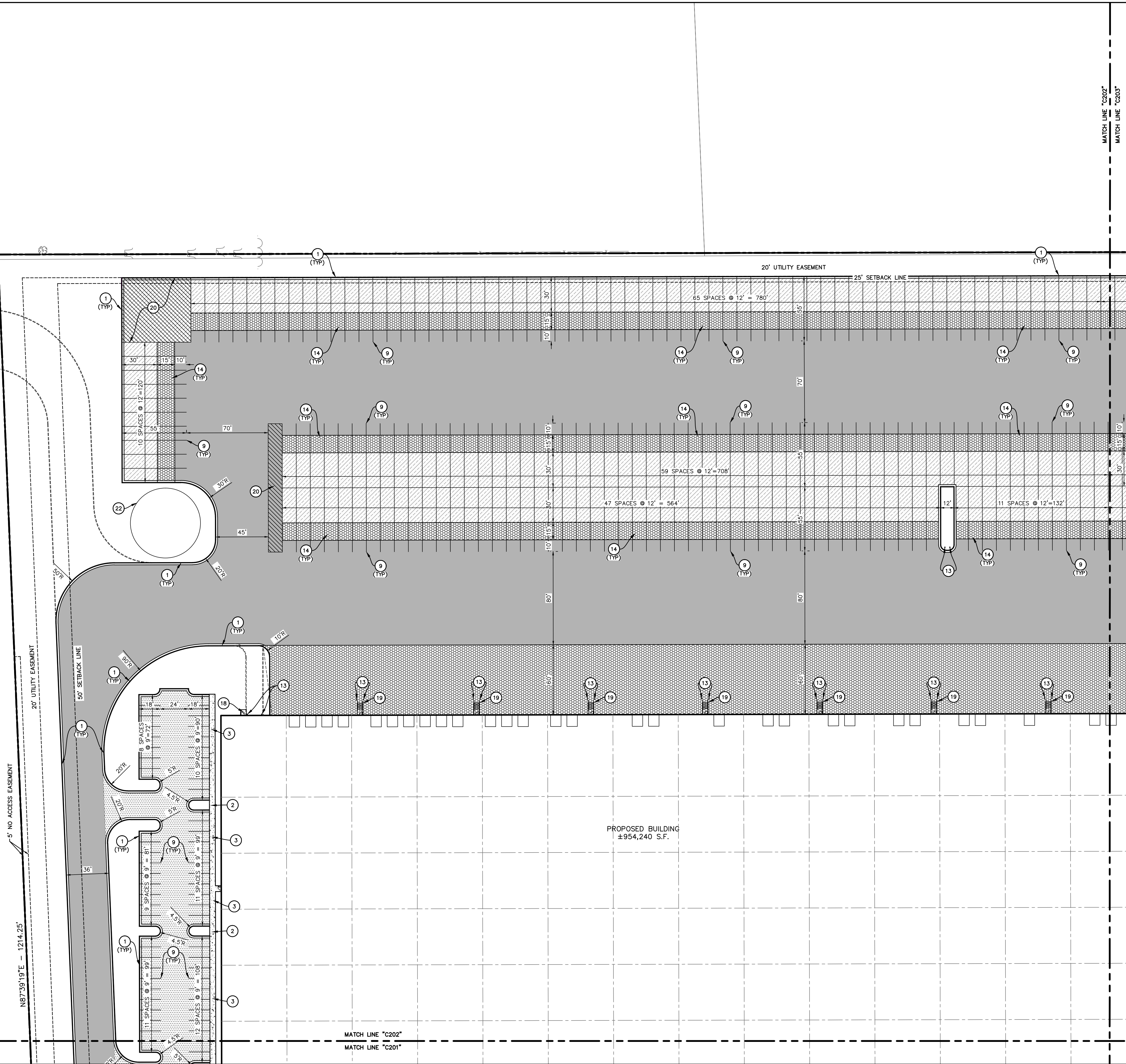
REVISION Schedule		
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2019.02798

SITE PLAN

C201



0' 40' 80'

SCALE: 1"=40'

EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT	
SIGN	

SITE LEGEND

AUTOMOBILE LIGHT DUTY PAVEMENT
HEAVY DUTY ASPHALT PAVEMENT
TRAILER PARKING HEAVY DUTY PAVEMENT
CONCRETE PAVEMENT AND DOLLY PAD
CONCRETE PAVEMENT
RIGHT OF WAY ASPHALT PAVEMENT

SITE DATA TABLE

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FUTURE STANDARD PARKING (9'x18'):	96

KEYNOTES

- 24" CONCRETE CURB AND GUTTER
- CONCRETE SIDEWALK
- COMBINED CONCRETE CURB & WALK
- CURB TAPER
- ADA ACCESSIBLE RAMP TYPE 'K'
- ADA PARKING SPACE (4" BLUE PAINT STRIPE)
- ADA PARKING SYMBOL
- ADA ACCESSIBLE PARKING SIGN
- PARKING SPACE (4" WHITE PAINT STRIPE)
- TRANSFORMER PAD PER UTILITY COMPANY STANDARDS
- CONCRETE WHEEL STOP
- STOP SIGN
- CONCRETE BOLLARD
- CONCRETE DOLLY PAD (PER HEAVY DUTY CONCRETE SECTION)
- DRIVE-IN RAMP (REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS)
- 24" STOP BAR (PAINTED WHITE)
- BIKE RACK ('U' STYLE)
- CONCRETE STOOP (5'x5', PER SIDEWALK SECTION)
- METAL STAIRS (REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION)
- NO PARKING STRIPING (4", WHITE PAINT)
- FUTURE GUARD SHACK
- WATER STORAGE TANK

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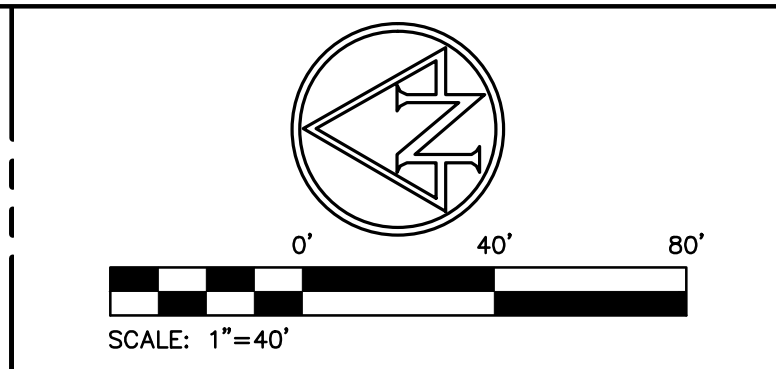
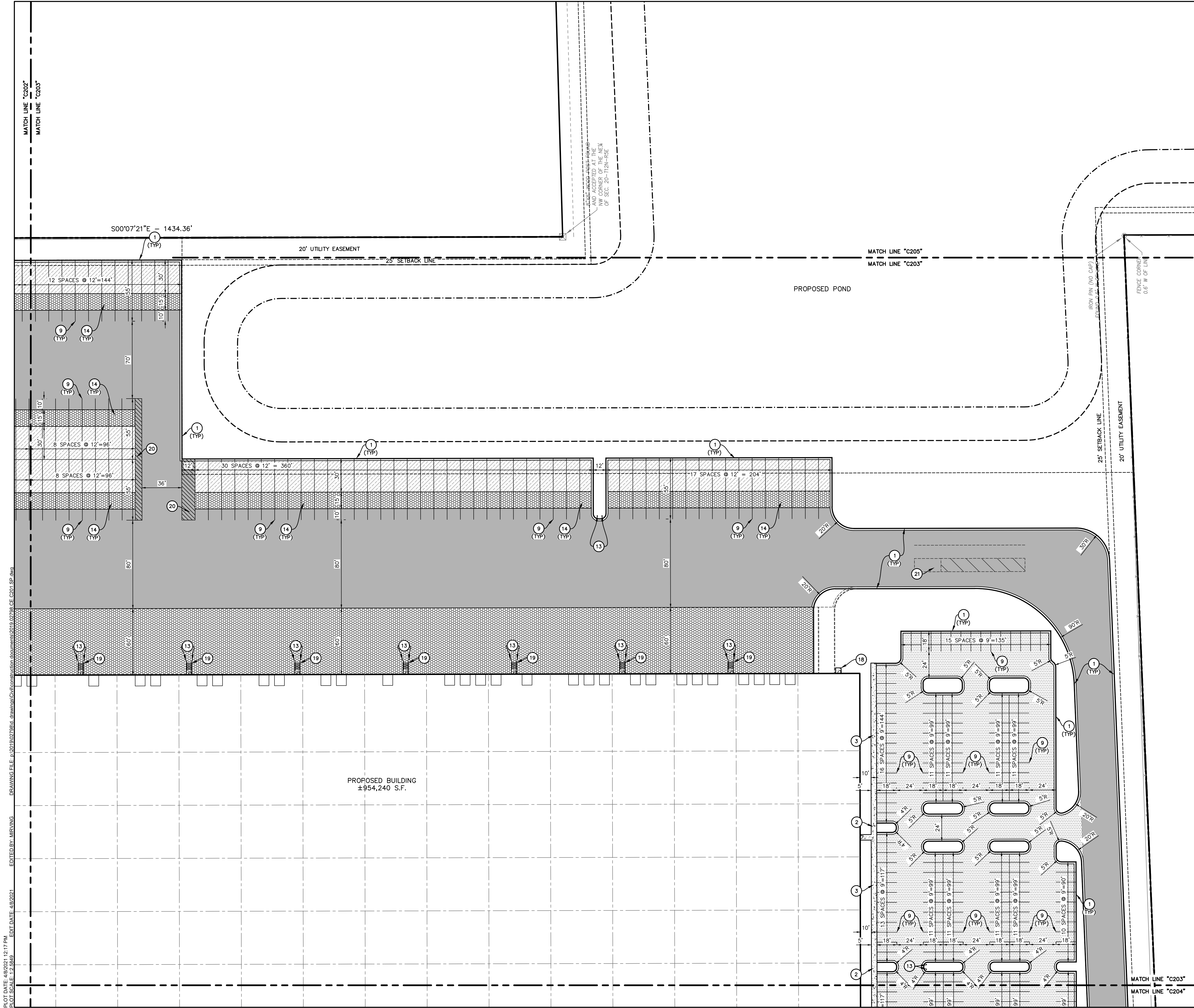
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SITE PLAN

C202



EXISTING LEGEND	
BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT SIGN	

SITE LEGEND	
AUTOMOBILE LIGHT DUTY PAVEMENT	
HEAVY DUTY ASPHALT PAVEMENT	
TRAILER PARKING HEAVY DUTY PAVEMENT	
CONCRETE PAVEMENT AND DOLLY PAD	
CONCRETE PAVEMENT	
RIGHT OF WAY ASPHALT PAVEMENT	

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- ### KEYNOTES
- 24" CONCRETE CURB AND GUTTER
 - CONCRETE SIDEWALK
 - COMBINED CONCRETE CURB & WALK
 - CURB TAPER
 - ADA ACCESSIBLE RAMP TYPE 'K'
 - ADA PARKING SPACE (4" BLUE PAINT STRIPE)
 - ADA PARKING SYMBOL
 - ADA ACCESSIBLE PARKING SIGN
 - PARKING SPACE (4" WHITE PAINT STRIPE)
 - TRANSFORMER PAD PER UTILITY COMPANY STANDARDS
 - CONCRETE WHEEL STOP
 - STOP SIGN
 - CONCRETE BOLLARD
 - CONCRETE DOLLY PAD (PER HEAVY DUTY CONCRETE SECTION)
 - DRIVE-IN RAMP (REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS)
 - 24" STOP BAR (PAINTED WHITE)
 - BIKE RACK ('U' STYLE)
 - CONCRETE STOOP (5'x5', PER SIDEWALK SECTION)
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 - NO PARKING STRIPING (4", WHITE PAINT)
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Justin M. Olan

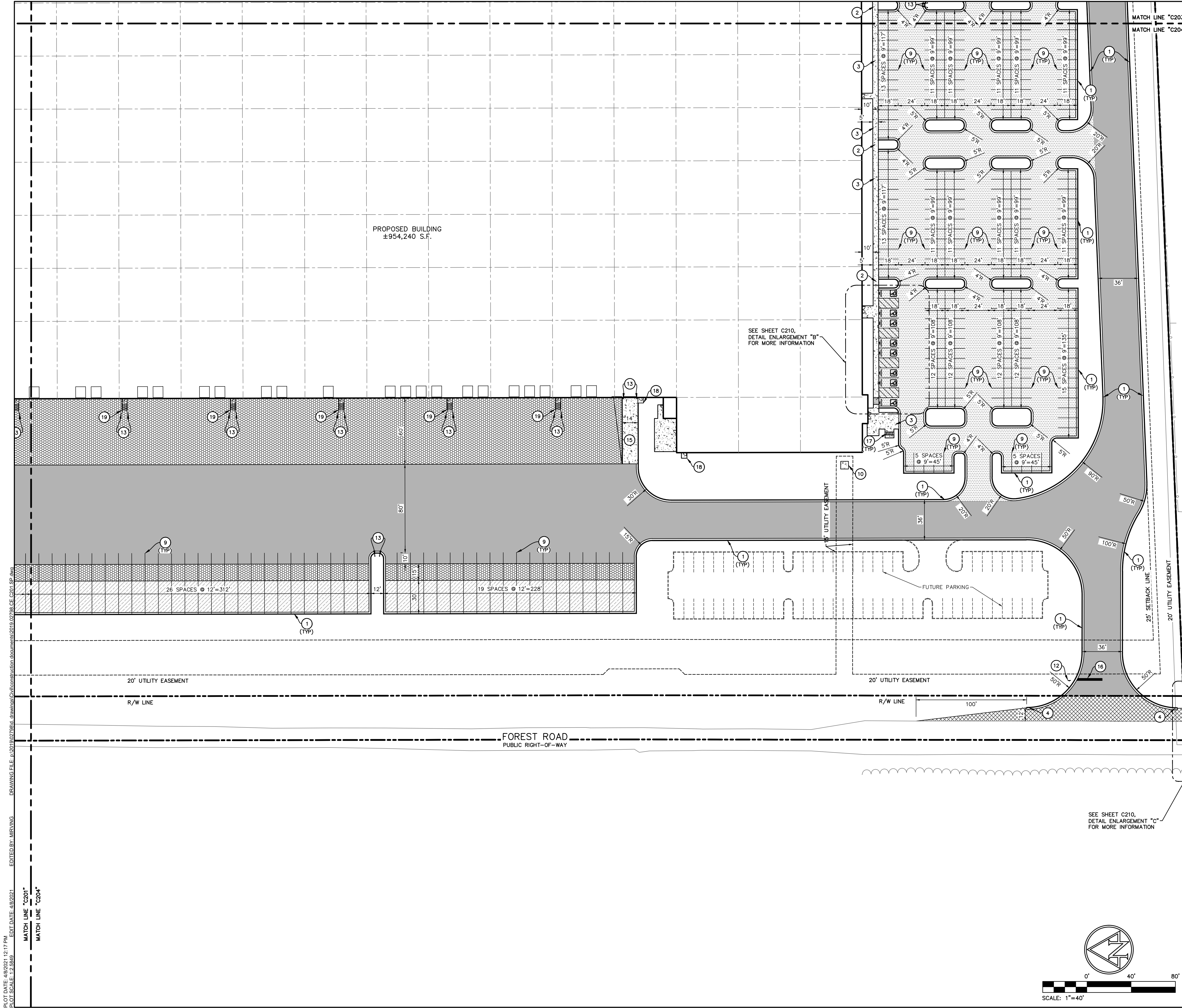
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SITE PLAN

C203



EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT	
SIGN	

SITE LEGEND

(Pattern)	AUTOMOBILE LIGHT DUTY PAVEMENT
(Pattern)	HEAVY DUTY ASPHALT PAVEMENT
(Pattern)	TRAILER PARKING HEAVY DUTY PAVEMENT
(Pattern)	CONCRETE PAVEMENT AND DOLLY PAD
(Pattern)	CONCRETE PAVEMENT
(Pattern)	RIGHT OF WAY ASPHALT PAVEMENT

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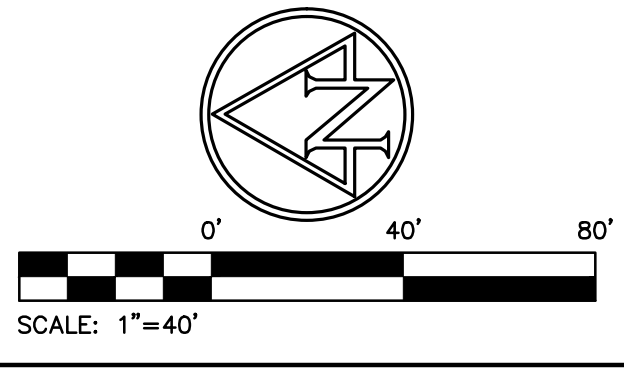
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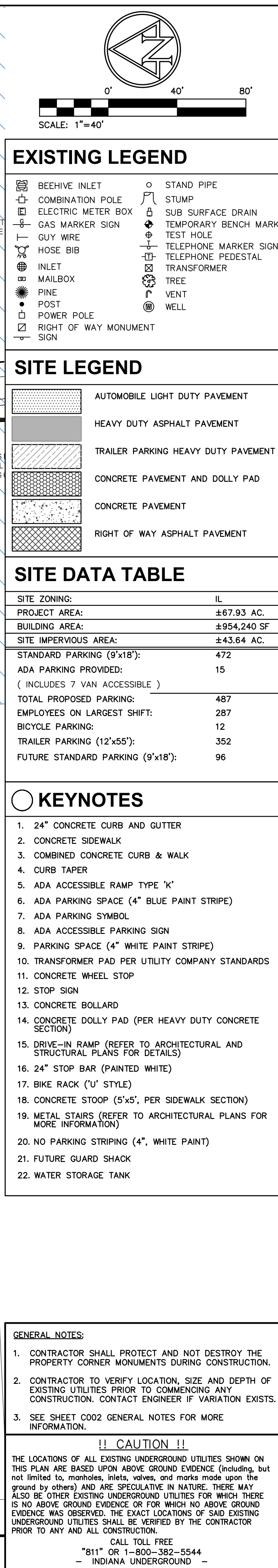
Project Number 2019.02798

SITE PLAN

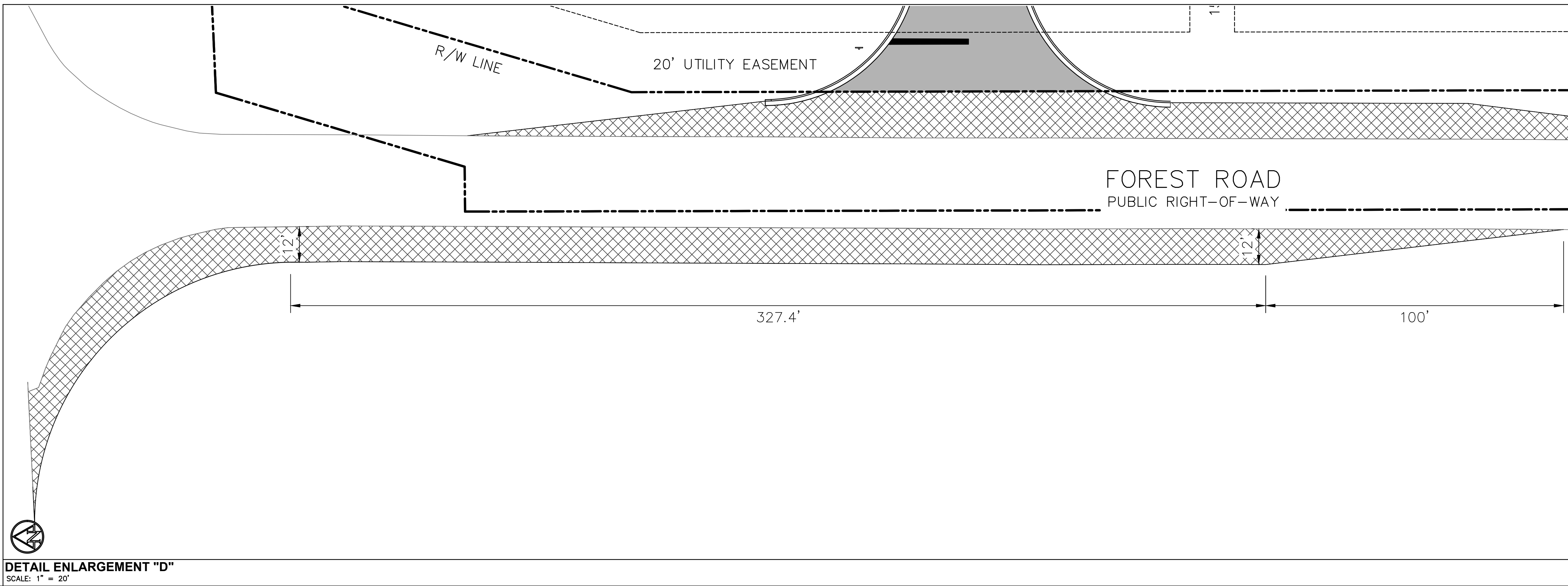
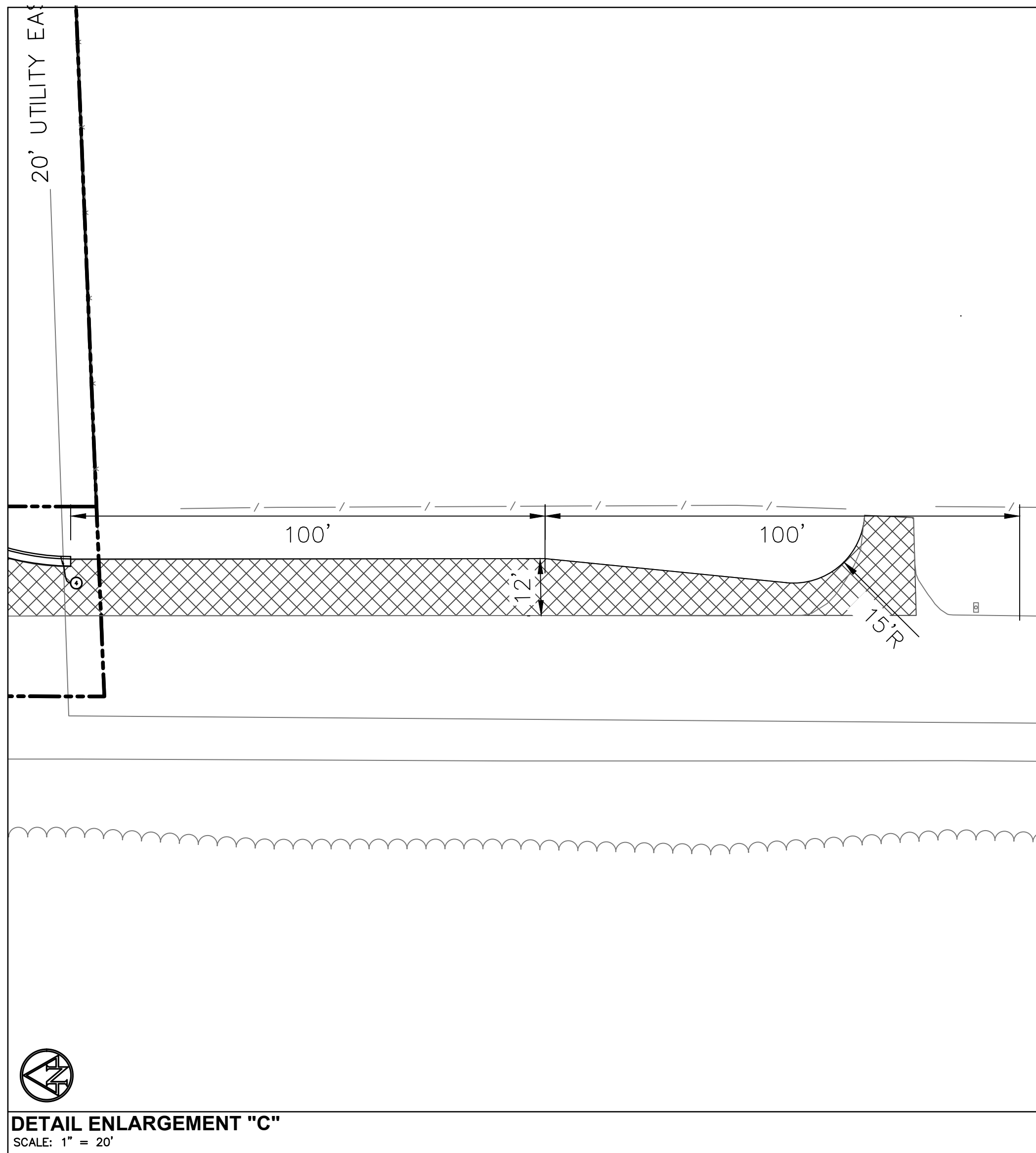
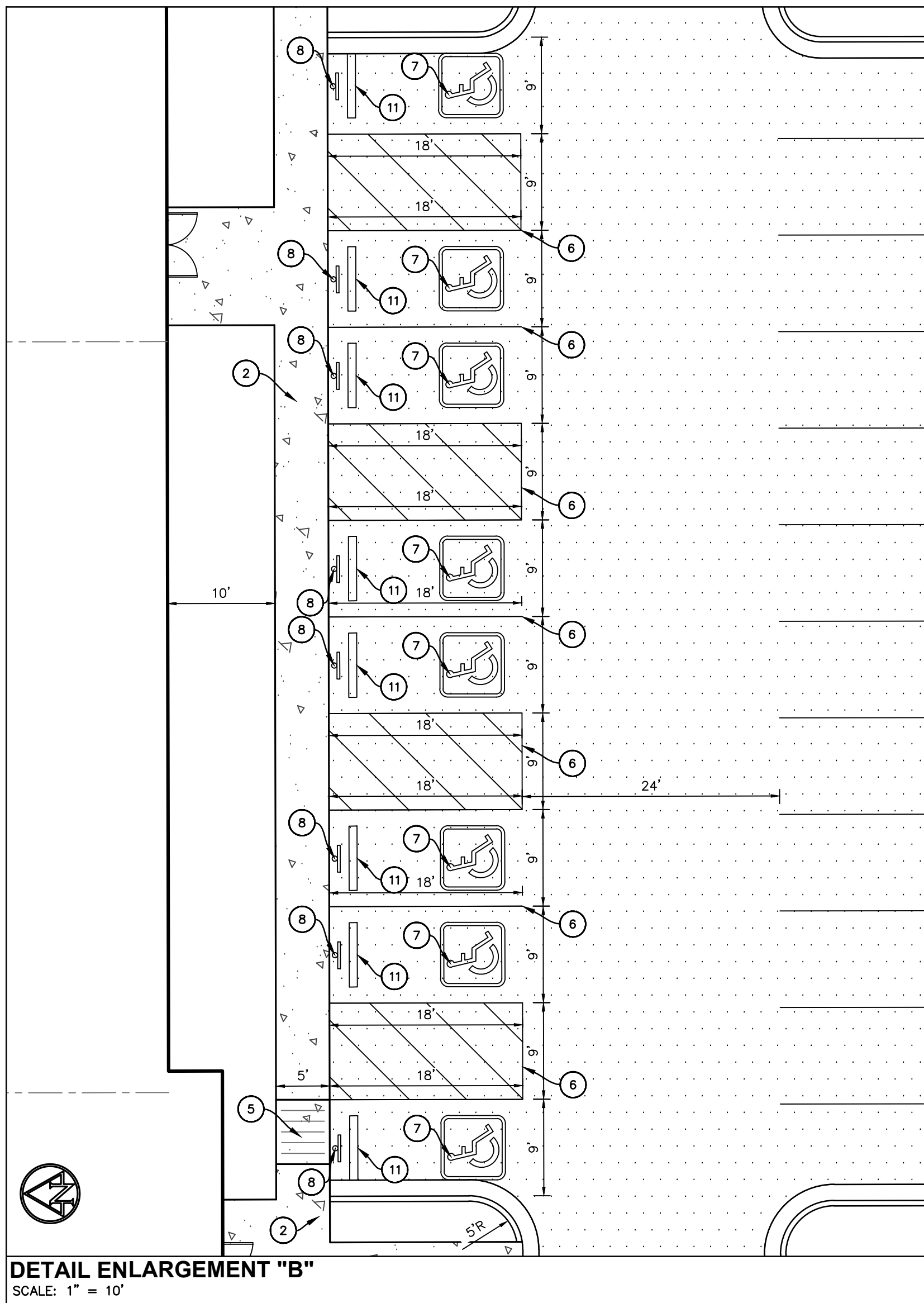
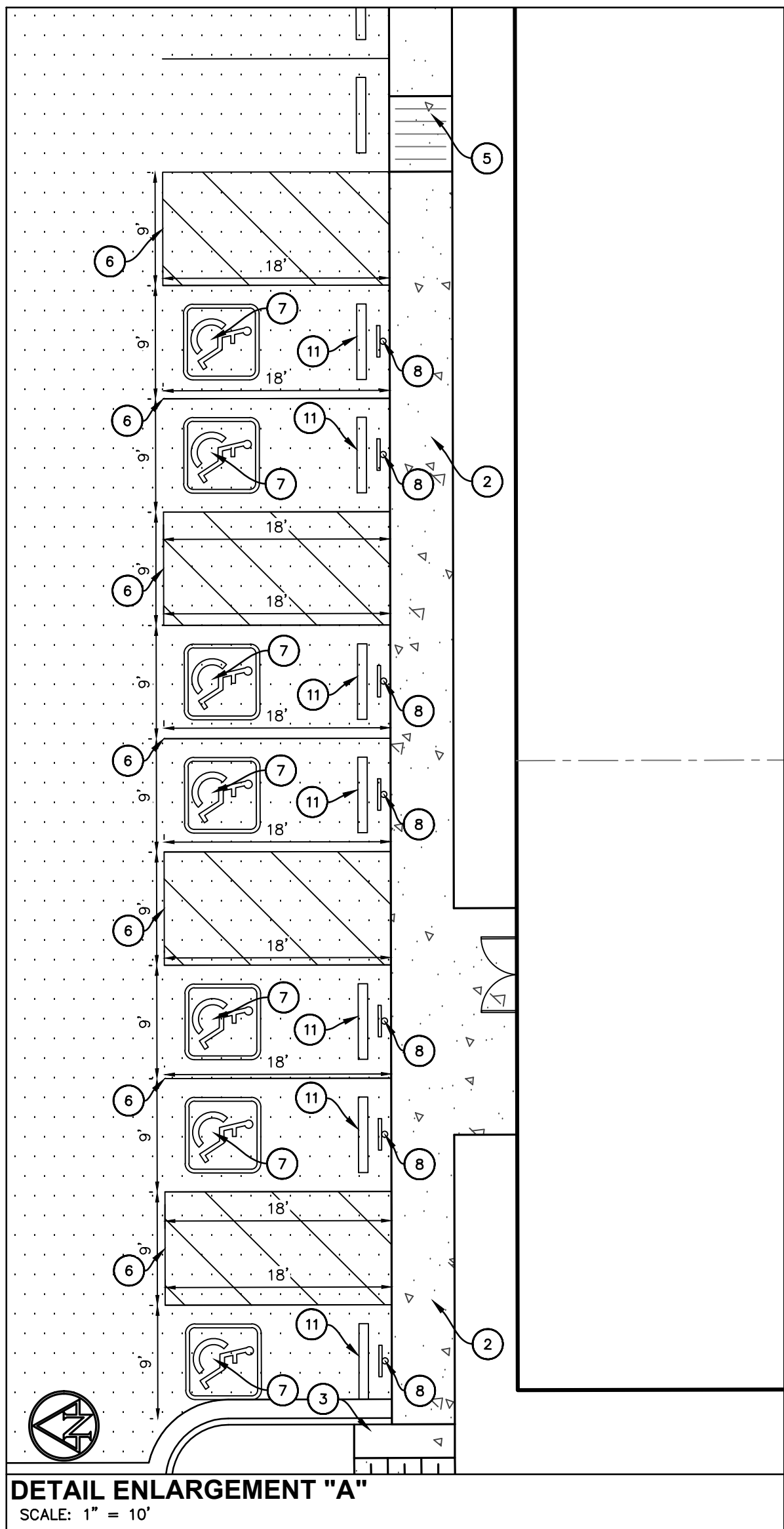
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PLOT DATE: 4/8/2021 12:17 PM
PLOT SCALE: 1"=40'
EDITED BY: MIRVING
MATCH LINE "C203"
MATCH LINE "C204"





PLOT DATE: 4/8/2021 12:18 PM
PLOT SCALE: 1" = 20'
DRAWING FILE: p:\2019\02798\cd_drawing\Construction documents\2019.02798.CE.C201.SP.dwg
EDIT DATE: 4/8/2021
EDITED BY: MIRVING



EXISTING LEGEND

- | | |
|-----------------------|-----------------------|
| BEEHIVE INLET | STAND PIPE |
| COMBINATION POLE | STUMP |
| ELECTRIC METER BOX | SUB SURFACE DRAIN |
| GAS MARKER SIGN | TEMPORARY BENCH MARK |
| GUY WIRE | TEST HOLE |
| HOSE BIB | TELEPHONE MARKER SIGN |
| INLET | TELEPHONE PEDESTAL |
| MAILBOX | TRANSFORMER |
| PINE | TREE |
| POST | VENT |
| POWER POLE | WELL |
| RIGHT OF WAY MONUMENT | |
| SIGN | |

SITE LEGEND

- | |
|-------------------------------------|
| AUTOMOBILE LIGHT DUTY PAVEMENT |
| HEAVY DUTY ASPHALT PAVEMENT |
| TRAILER PARKING HEAVY DUTY PAVEMENT |
| CONCRETE PAVEMENT AND DOLLY PAD |
| CONCRETE PAVEMENT |
| RIGHT OF WAY ASPHALT PAVEMENT |

SITE DATA TABLE

SITE ZONING:	IL
PROJECT AREA:	±67.93 AC.
BUILDING AREA:	±954,240 SF
SITE IMPERVIOUS AREA:	±43.64 AC.
STANDARD PARKING (9'x18'):	472
ADA PARKING PROVIDED:	15
(INCLUDES 7 VAN ACCESSIBLE)	
TOTAL PROPOSED PARKING:	487
EMPLOYEES ON LARGEST SHIFT:	287
BICYCLE PARKING:	12
TRAILER PARKING (12'x55'):	352
FUTURE STANDARD PARKING (9'x18'):	96

KEYNOTES

- 24" CONCRETE CURB AND GUTTER
- CONCRETE SIDEWALK
- COMBINED CONCRETE CURB & WALK
- CURB TAPER
- ADA ACCESSIBLE RAMP TYPE "K"
- ADA PARKING SPACE (4" BLUE PAINT STRIPE)
- ADA PARKING SYMBOL
- ADA ACCESSIBLE PARKING SIGN
- PARKING SPACE (4" WHITE PAINT STRIPE)
- TRANSFORMER PAD PER UTILITY COMPANY STANDARDS
- CONCRETE WHEEL STOP
- STOP SIGN
- CONCRETE BOLLARD
- CONCRETE DOLLY PAD (PER HEAVY DUTY CONCRETE SECTION)
- DRIVE-IN RAMP (REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR DETAILS)
- 24" STOP BAR (PAINTED WHITE)
- BIKE RACK ("U" STYLE)
- CONCRETE STOOP (5'x5', PER SIDEWALK SECTION)
- METAL STAIRS (REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION)
- NO PARKING STRIPING (4", WHITE PAINT)
- FUTURE GUARD SHACK
- WATER STORAGE TANK

GENERAL NOTES:

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- SEE SHEET C002 GENERAL NOTES FOR MORE INFORMATION.

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LOT 1**

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Franklin, Indiana



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ISSUANCE INDEX

DATE:
04/07/2021
PROJECT PHASE:
CONSTRUCTION DOCUMENTS

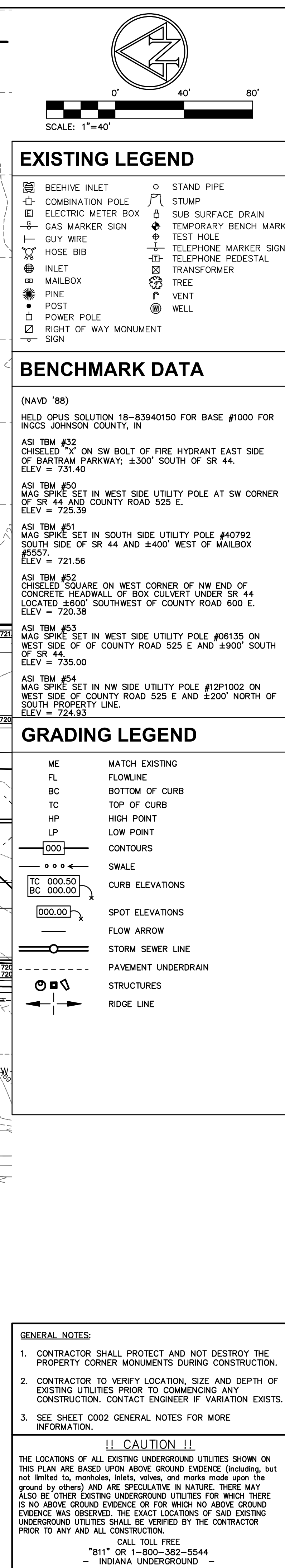
REVISION SCHEDULE

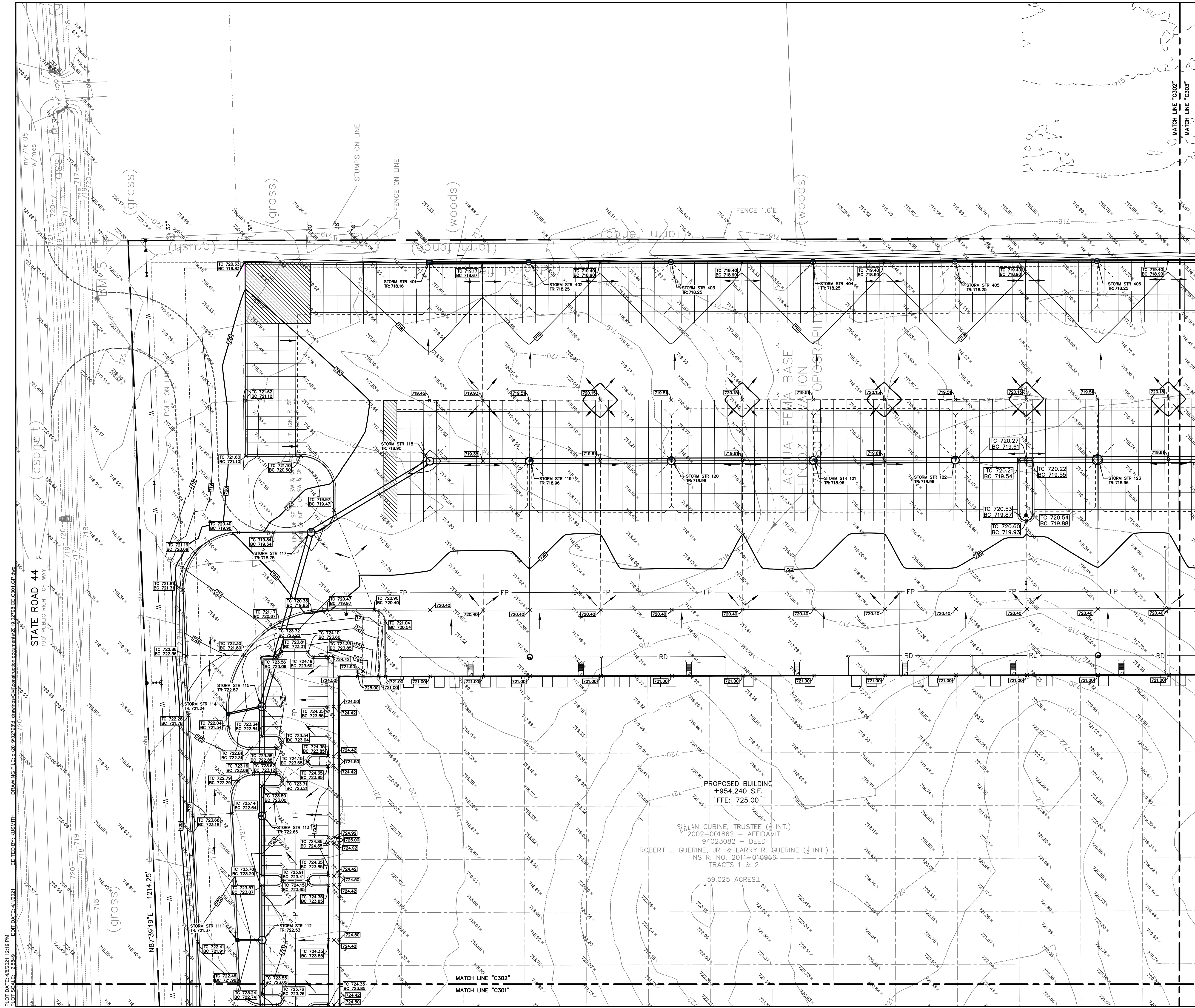
NO.	DESCRIPTION	DATE

Project Number 2019.02798

**SITE PLAN
ENLARGEMENT**

C210





EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT	
SIGN	

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INDCS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

GRADING LEGEND

ME	MATCH EXISTING
FL	FLOWLINE
BC	BOTTOM OF CURB
TC	TOP OF CURB
HP	HIGH POINT
LP	LOW POINT
	CONTOURS
	SWALE
	CURB ELEVATIONS
	SPOT ELEVATIONS
	FLOW ARROW
	STORM SEWER LINE
	PAVEMENT UNDERDRAIN
	STRUCTURES
	RIDGE LINE

GENERAL NOTES:

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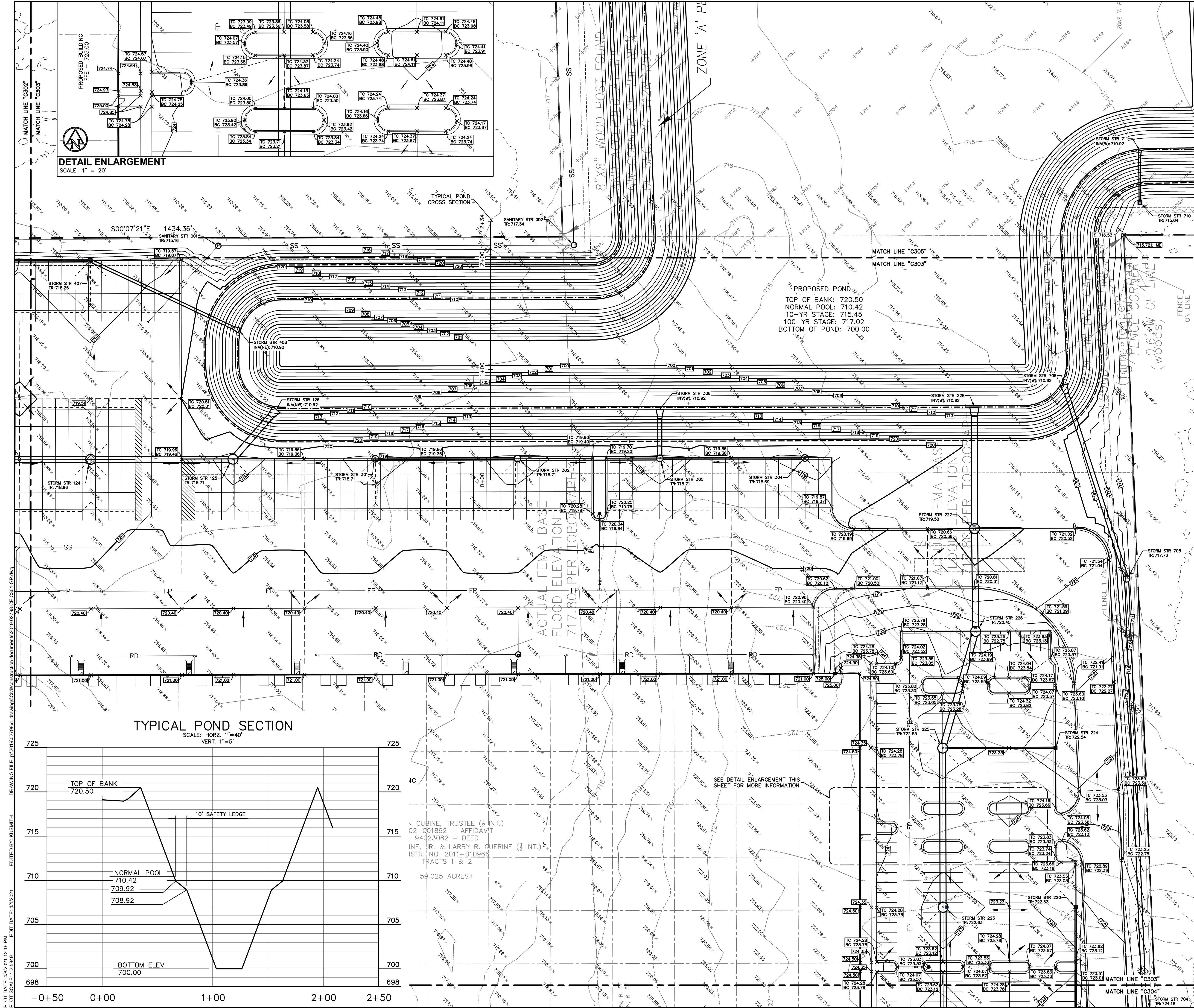
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

GRADING PLAN

C302



EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT	
SIGN	

BENCHMARK DATA

(NAVD '88)

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ELEV = 731.40

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ELEV = 725.39

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ELEV = 721.56

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ELEV = 720.38

ASI TBM #53
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ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

GRADING LEGEND

ME	MATCH EXISTING
FL	FLOWLINE
BC	BOTTOM OF CURB
TC	TOP OF CURB
HP	HIGH POINT
LP	LOW POINT
000	CONTOURS
000.50	SWALE
TC 000.50 BC 000.00	CURB ELEVATIONS
000.00	SPOT ELEVATIONS
Flow Arrow	FLOW ARROW
Storm Sewer Line	STORM SEWER LINE
Pavement Underdrain	PAVEMENT UNDERDRAIN
Structures	STRUCTURES
Ridge Line	RIDGE LINE

GENERAL NOTES:

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Justin R. Clark

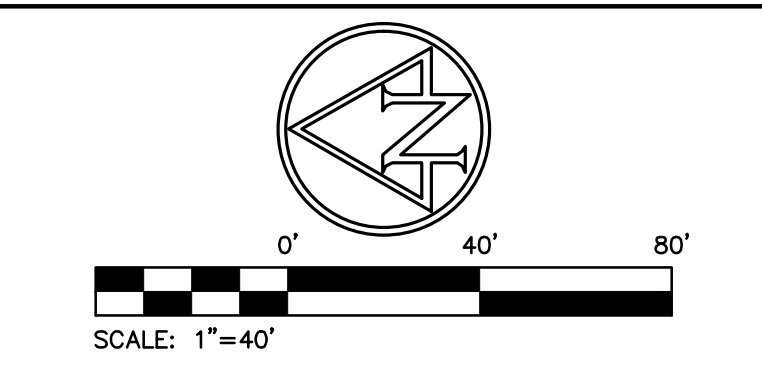
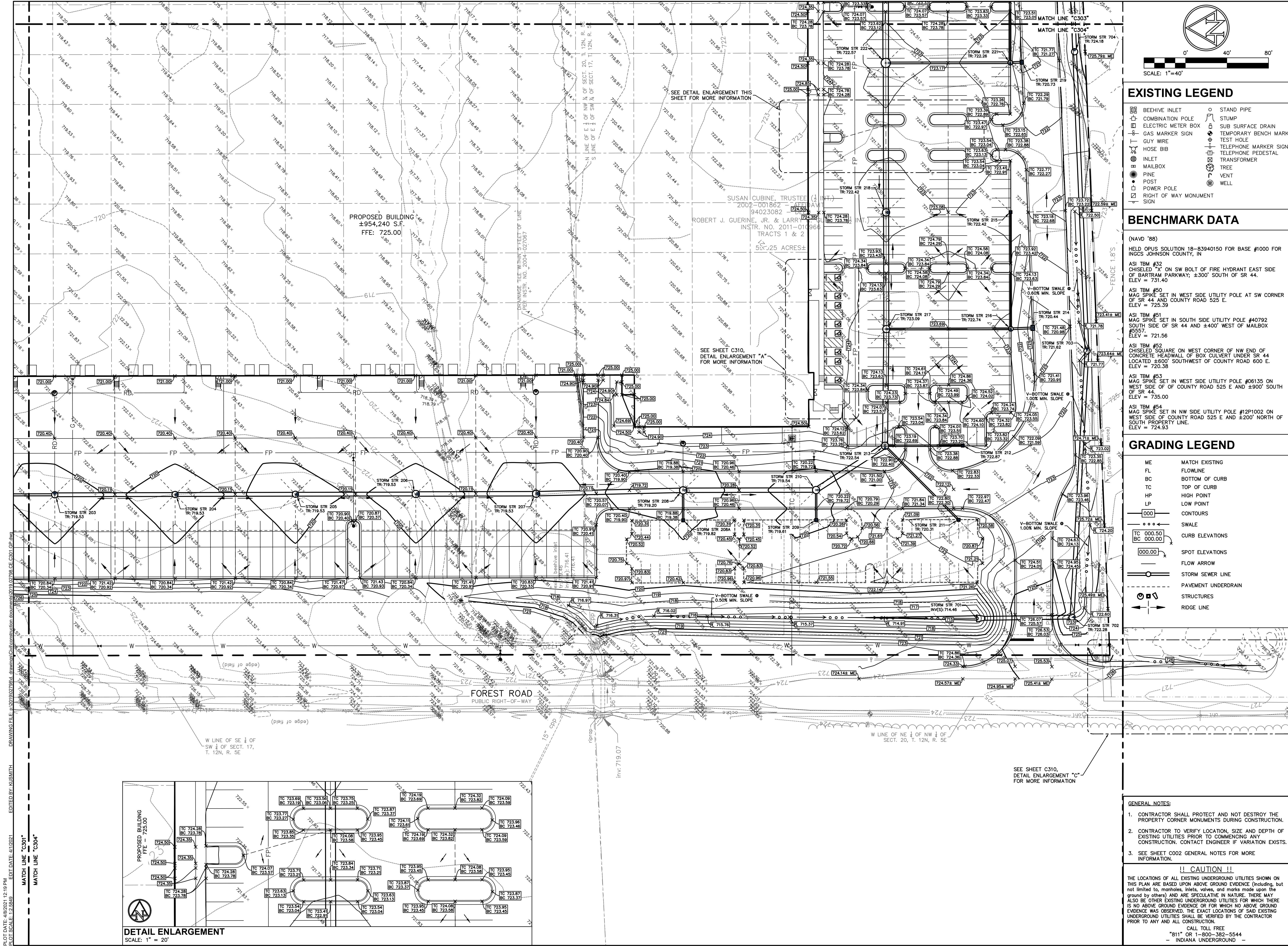
ISSUANCE INDEX	
DATE:	04/07/2021
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2019.02798

GRADING PLAN

C303



- EXISTING LEGEND**
- | | |
|-----------------------|-----------------------|
| BEETLE INLET | STAND PIPE |
| COMBINATION POLE | STUMP |
| ELECTRIC METER BOX | SUB SURFACE DRAIN |
| GAS MARKER SIGN | TEMPORARY BENCH MARK |
| GUY WIRE | TEST HOLE |
| HOSE BIB | TELEPHONE MARKER SIGN |
| INLET | TELEPHONE PEDESTAL |
| MAILBOX | TRANSFORMER |
| PINE | TREE |
| POST | VENT |
| POWER POLE | WELL |
| RIGHT OF WAY MONUMENT | |
| SIGN | |

BENCHMARK DATA

(NAVD '88)

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ELEV = 720.38

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ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

- GRADING LEGEND**
- | | |
|------------------------|---------------------|
| ME | MATCH EXISTING |
| FL | FLOWLINE |
| BC | BOTTOM OF CURB |
| TC | TOP OF CURB |
| HP | HIGH POINT |
| LP | LOW POINT |
| 0000 | CONTOURS |
| TC 000.50
BC 000.00 | SWALE |
| 000.00 | CURB ELEVATIONS |
| 000.00 | SPOT ELEVATIONS |
| → | FLOW ARROW |
| —○— | STORM SEWER LINE |
| —○— | PAVEMENT UNDERDRAIN |
| —○— | STRUCTURES |
| —○— | RIDGE LINE |

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Justin M. Clark

ISSUANCE INDEX

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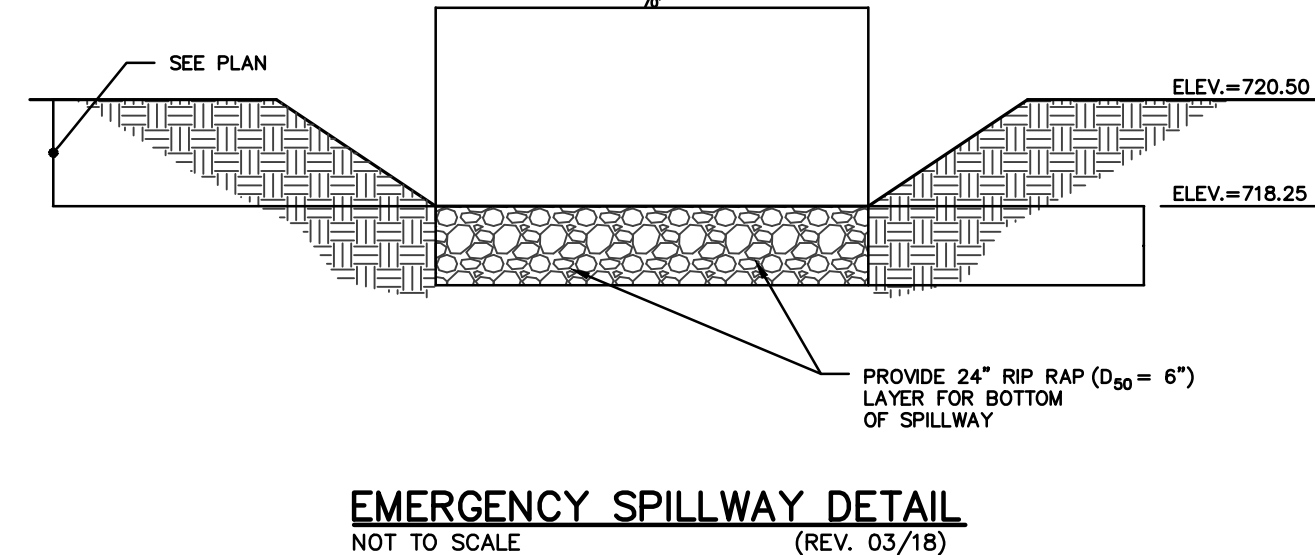
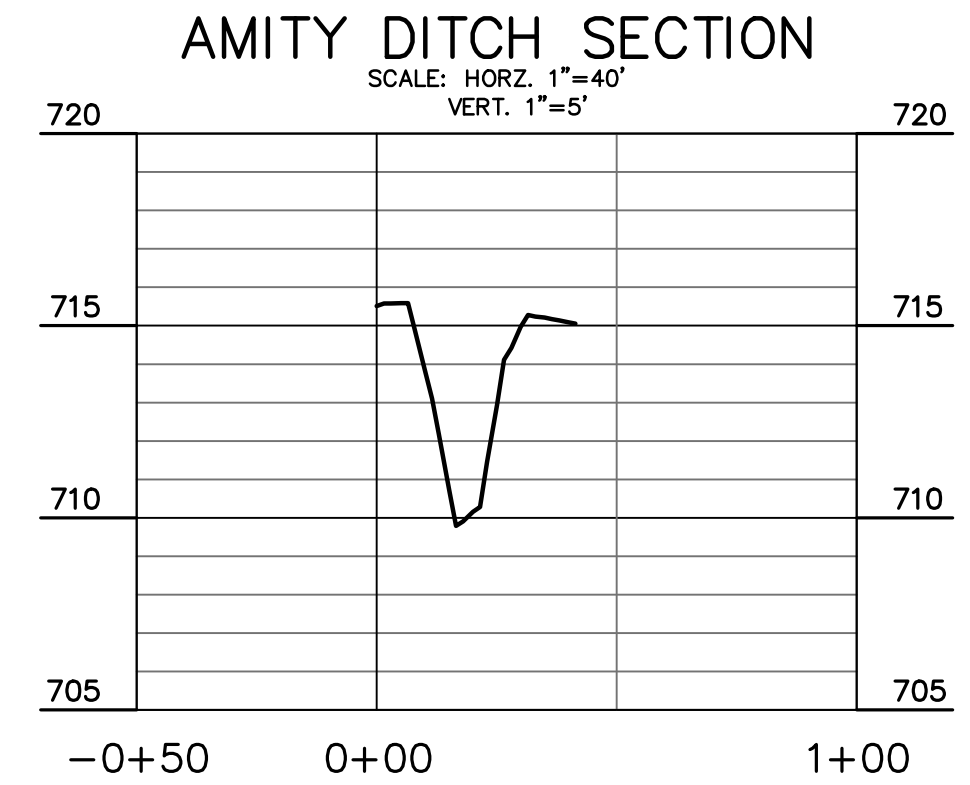
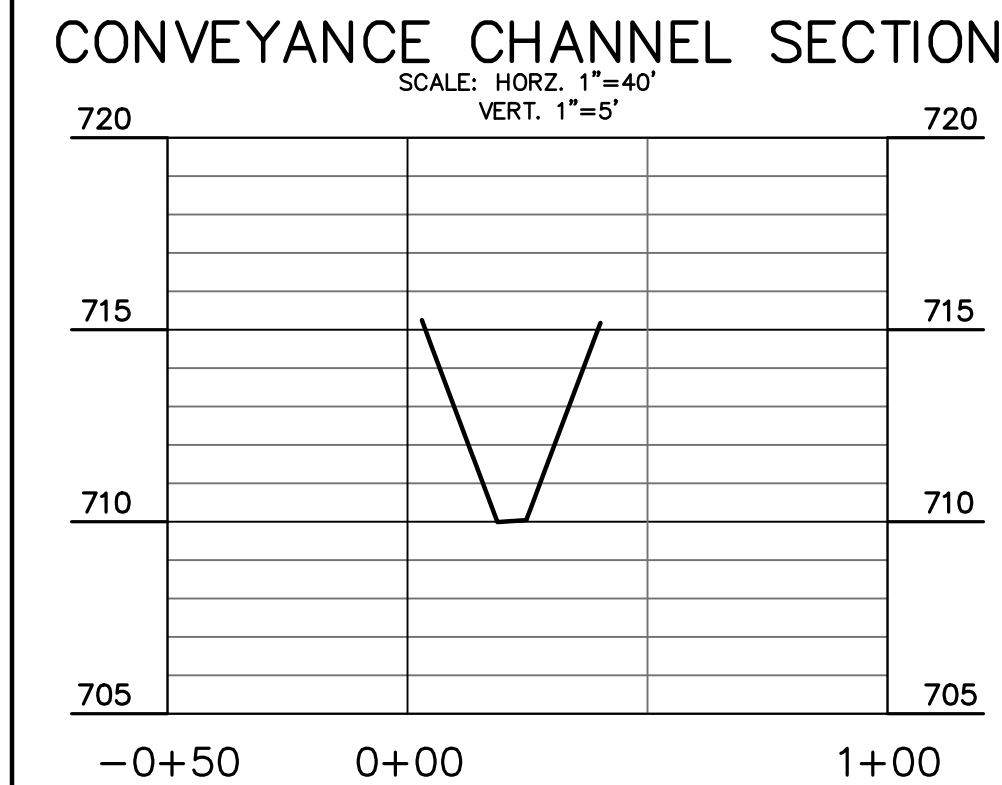
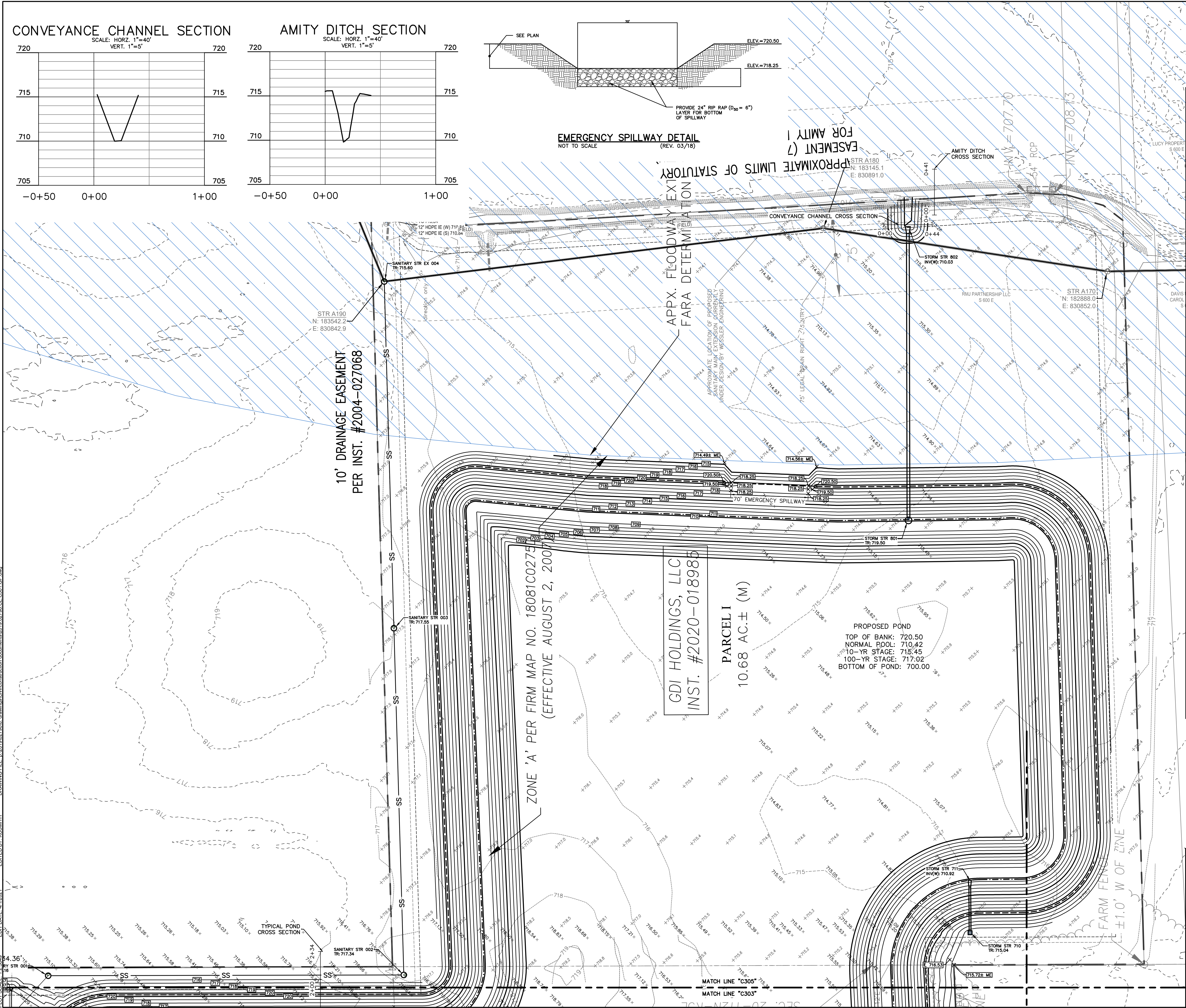
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

GRADING PLAN

C304



SCALE: 1"=40'

EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT	
SIGN	

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(NAVD '88)

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TC	TOP OF CURB
HP	HIGH POINT
LP	LOW POINT
000	CONTOURS
TC 000.50 BC 000.00	SWALE
000.00	CURB ELEVATIONS
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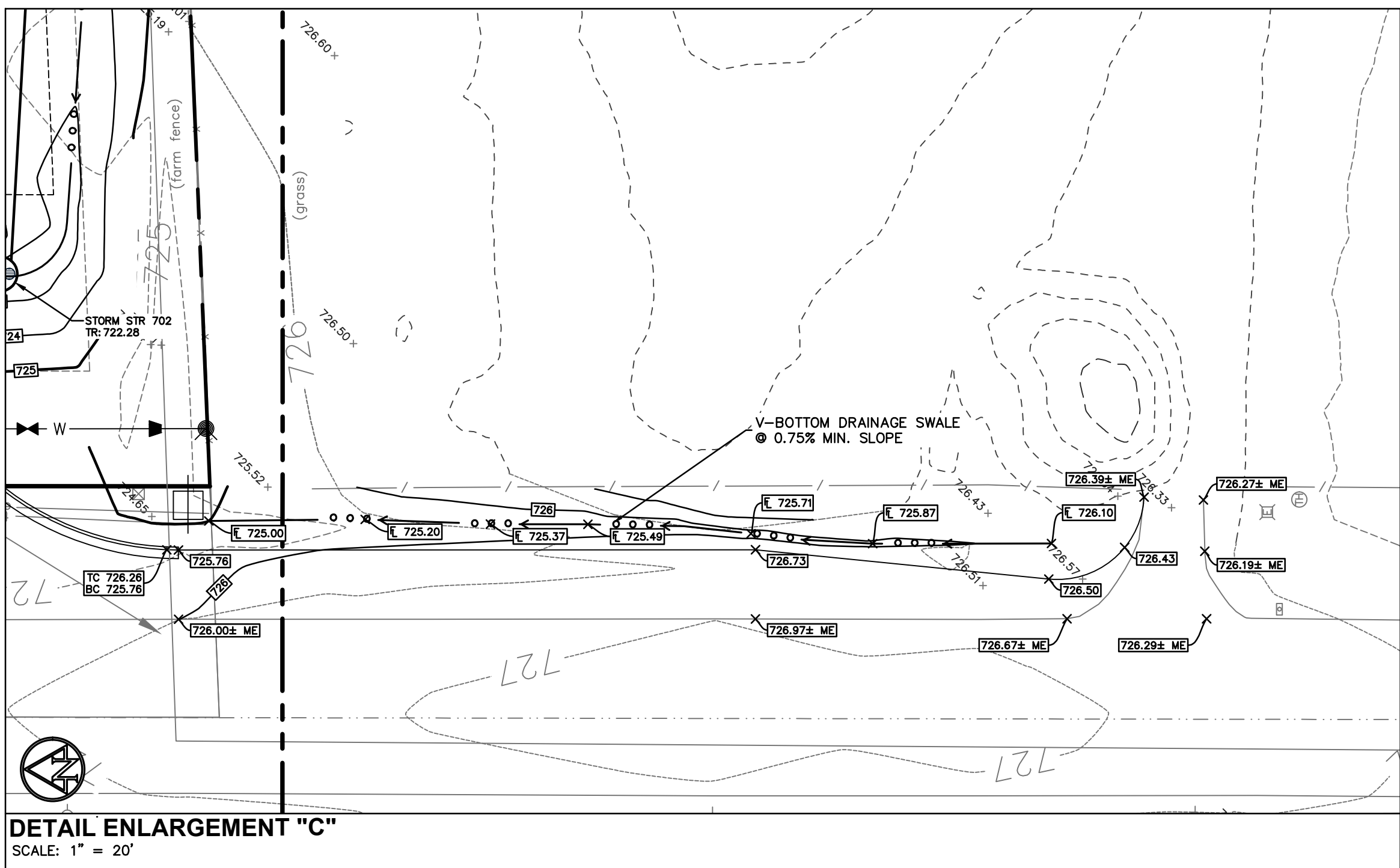
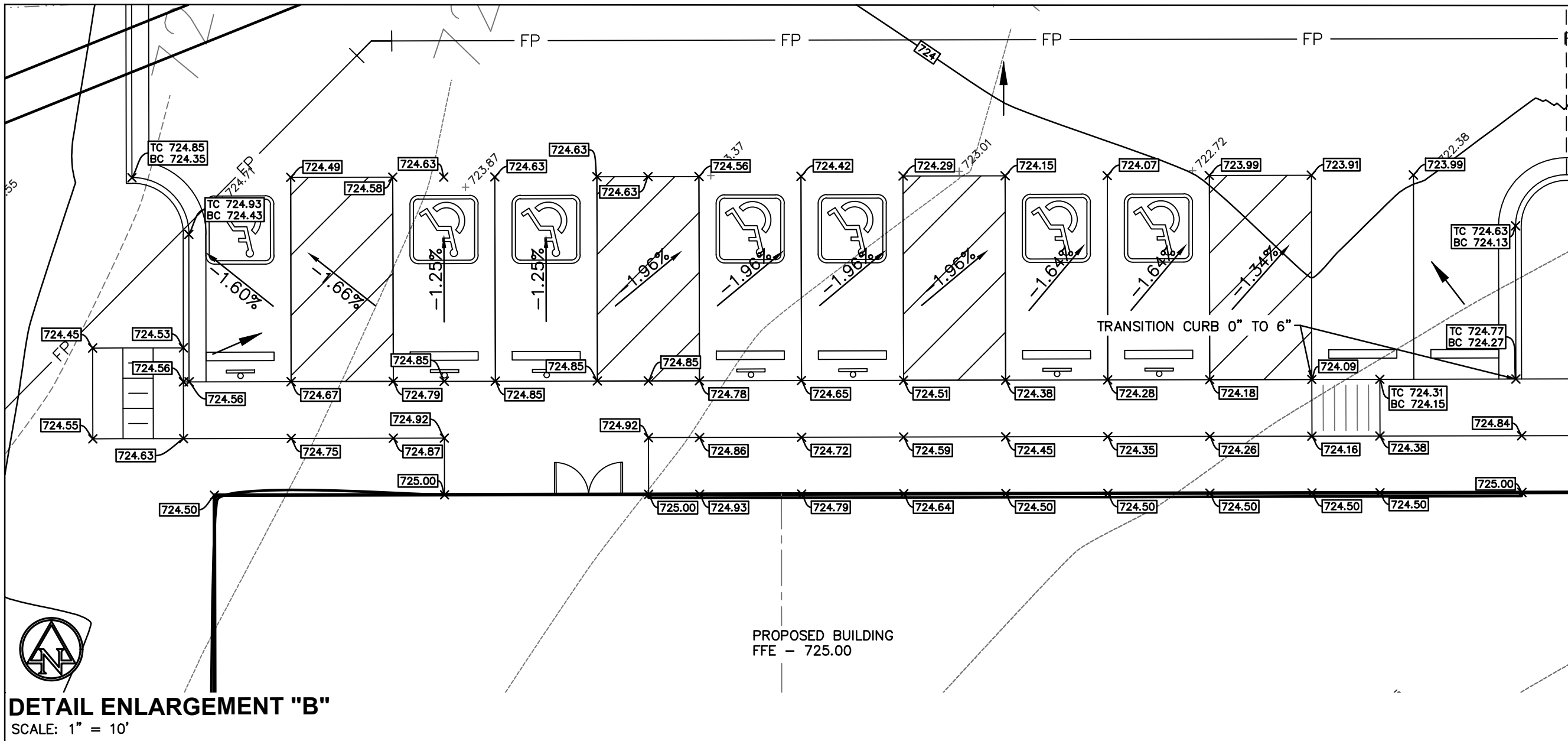
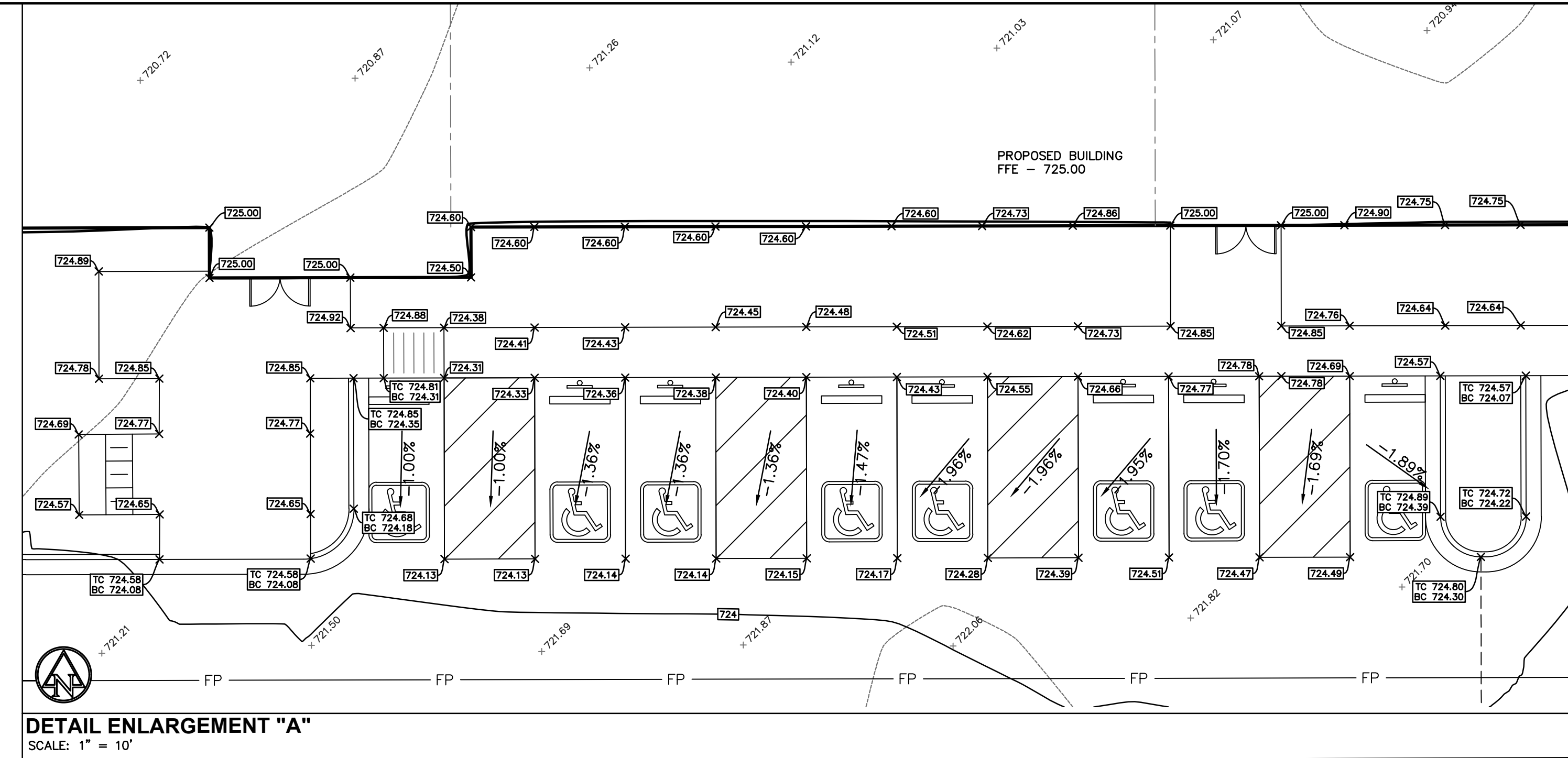
Project Number 2019.02798

GRADING PLAN

C305

EDIT DATE: 4/1/2021
PLOT DATE: 4/8/2021 12:20 PM
PLOT SCALE: 1"=80'
DRAWING FILE: p:\2019\02798\81-89 Forest Road\Drawings\Grading\Grading.dwg
DRAWN BY: J. SMITH
CHECKED BY: J. SMITH
PLOT BY: J. SMITH

PLOT DATE: 4/8/2021 12:20 PM
 PLOT SCALE: 1" = 50'
 DRAWING FILE: p:\2019\02798\Drawings\Construction documents\2019.02798_CE_C301_GFP.dwg
 EDITED BY: KUSMITH
 EDIT DATE: 4/1/2021



EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT	
SIGN	

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(NAVD '88)

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ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.83

GRADING LEGEND

ME	MATCH EXISTING
FL	FLOWLINE
BC	BOTTOM OF CURB
TC	TOP OF CURB
HP	HIGH POINT
LP	LOW POINT
000	CONTOURS
000.50	SWALE
000.00	CURB ELEVATIONS
000.00	SPOT ELEVATIONS
000.00	FLOW ARROW
000.00	STORM SEWER LINE
000.00	PAVEMENT UNDERDRAIN
000.00	STRUCTURES
000.00	RIDGE LINE

- GENERAL NOTES:
- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
 - CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
 - 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
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- INDIANA UNDERGROUND -



GDI CONSTRUCTION

9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100



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I-65 SOUTH
LOGISTICS CENTER
LOT 1

81/89 Forest Road
Franklin, Indiana



CERTIFIED BY

ISSUANCE INDEX

DATE:	04/07/2021
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

GRADING PLAN
ENLARGEMENT

C310

DRAWING FILE: P:\2019\027288\Drawings\Construction documents\2019.027288_CE_C320_GP.dwg
EDITED BY: KJSMITH
EDIT DATE: 4/1/2021
PLOT DATE: 4/8/2021 12:21 PM
PLOT SCALE: 1:2=5849

STORM STRUCTURE DATA TABLE NOTE: ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE--DRAINS TO WATERWAY"										
STR. NO.	STRUCTURE TYPE	CASTING TYPE	TOP OF RIM	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCT	REMARKS
101	TYPE "J" MH	R-3455-C	719.53		18" RCP 715.29 (N) [102]	116'	18"	0.20%	102	
102	TYPE "K" MH	R-3257-C2	719.53	18" RCP 715.05 (S) [101]	36" RCP 713.85 (N) [103]	147'	36"	0.10%	103	
103	TYPE "J" MH	R-3287-10V	722.79	36" RCP 713.71 (S) [102]	36" RCP 713.71 (N) [105]	200'	36"	0.15%	105	
104	TYPE "A" INLET	R-4342	722.04		12" RCP 717.92 (SE) [105]	53'	12"	0.40%	105	
105	TYPE "J" MH	R-3287-15	721.82	36" RCP 713.41 (S) [103] 12" RCP 717.71 (NW) [104]	36" RCP 713.41 (E) [107]	122'	36"	0.18%	107	
107	TYPE "J" MH	R-3010	723.16	36" RCP 713.19 (W) [105]	36" RCP 713.19 (E) [109]	108'	36"	0.19%	109	
108	TYPE "J" INLET	R-3287-SB10	720.70		12" RCP 717.04 (S) [109]	13'	12"	0.35%	109	
109	TYPE "J" MH	R-3010	722.68	36" RCP 712.99 (W) [107] 12" RCP 716.99 (N) [108]	36" RCP 712.99 (E) [110]	112'	36"	0.20%	110	
110	TYPE "K" MH	R-3010	722.68	36" RCP 712.77 (W) [109]	42" RCP 712.77 (E) [112]	141'	42"	0.10%	112	
111	TYPE "A" INLET	R-3010	721.37		12" RCP 717.71 (S) [112]	23'	12"	0.35%	112	
112	TYPE "K" MH	R-3010	722.53	42" RCP 712.63 (W) [110] 12" RCP 717.63 (N) [111]	42" RCP 712.63 (E) [113]	112'	42"	0.10%	113	
113	TYPE "K" MH	R-3010	722.66	42" RCP 712.52 (W) [112]	42" RCP 712.52 (E) [115]	99'	42"	0.10%	115	
114	TYPE "A" INLET	R-3010	721.24		12" RCP 717.52 (S) [115]	31'	12"	0.35%	115	
115	TYPE "K" MH	R-3010	722.57	42" RCP 712.42 (W) [113] 12" RCP 717.42 (N) [114]	42" RCP 712.42 (E) [117]	164'	42"	0.10%	117	
117	TYPE "K" MH	R-3287-SB10	718.75	42" RCP 712.25 (W) [115]	42" RCP 712.25 (SE) [118]	125'	42"	0.11%	118	
118	TYPE "K" MH	R-3457-C2	718.90	42" RCP 712.12 (NW) [117]	42" RCP 712.12 (S) [119]	90'	42"	0.12%	119	
119	TYPE "K" MH	R-3455-C	718.96	42" RCP 712.01 (N) [118]	42" RCP 712.01 (S) [120]	129'	42"	0.21%	120	
120	TYPE "K" MH	R-3455-C	718.96	42" RCP 711.75 (N) [119]	48" RCP 711.75 (S) [121]	129'	48"	0.11%	121	
121	TYPE "K" MH	R-3455-C	718.96	48" RCP 711.61 (N) [120]	48" RCP 711.61 (S) [122]	129'	48"	0.12%	122	
122	TYPE "K" MH	R-3455-C	718.96	48" RCP 711.45 (N) [121]	48" RCP 711.45 (S) [123]	129'	48"	0.13%	123	
123	TYPE "L" MH	R-3455-C	718.96	48" RCP 711.28 (N) [122]	54" RCP 711.28 (S) [124]	129'	54"	0.11%	124	
124	TYPE "L" MH	R-3457-C2	718.96	54" RCP 711.14 (N) [123]	54" RCP 711.14 (S) [125]	129'	54"	0.11%	125	
125	TYPE "L" MH	R-3287-15	718.71	54" RCP 710.99 (N) [124]	54" RCP 710.99 (SE) [126]	60'	54"	0.12%	126	
126	54" CONCRETE END SECTION	-		54" RCP 710.92 (NW) [125]						DEBRIS GUARD REQUIRED
201	TYPE "C" MH	R-3455-C	719.53		18" RCP 715.31 (S) [202]	116'	18"	0.18%	202	
202	TYPE "C" MH	R-3455-C	719.53	18" RCP 715.10 (N) [201]	18" RCP 715.10 (S) [203]	116'	18"	0.40%	203	
203	TYPE "J" MH	R-3455-C	719.53	18" RCP 714.64 (N) [202]	36" RCP 713.88 (S) [204]	116'	36"	0.14%	204	
204	TYPE "J" MH	R-3455-C	719.53	36" RCP 713.72 (N) [203]	36" RCP 713.72 (S) [205]	116'	36"	0.17%	205	
205	TYPE "J" MH	R-3455-C	719.53	36" RCP 713.52 (N) [204]	36" RCP 713.52 (S) [206]	116'	36"	0.21%	206	
206	TYPE "K" MH	R-3455-C	719.53	36" RCP 713.28 (N) [205]	42" RCP 713.28 (S) [207]	116'	42"	0.11%	207	
207	TYPE "K" MH	R-3455-C	719.53	42" RCP 713.16 (N) [206]	42" RCP 713.16 (S) [208]	142'	42"	0.23%	208	
208	TYPE "K" MH	R-3472	719.20	42" RCP 712.83 (N) [207] 12" RCP 715.53 (W) [208A]	42" RCP 712.83 (S) [210]	128'	42"	0.31%	210	
208A	TYPE "A" INLET	R-4342	719.82		12" RCP 715.64 (E) [208]	29'	12"	0.35%	208	
209	TYPE "A" INLET	R-4342	719.61		12" RCP 715.94 (E) [210]	29'	12"	0.35%	210	
210	TYPE "K" MH	R-3472	719.54	42" RCP 712.44 (N) [208] 12" RCP 715.84 (W) [209]	48" RCP 712.44 (SE) [213]	79'	48"	0.16%	213	
211	TYPE "A" INLET	R-4342	720.31		12" RCP 716.56 (NE) [213]	101'	12"	0.35%	213	
212	TYPE "A" INLET	R-3010	722.87		12" RCP 719.07 (N) [213]	75'	12"	0.35%	213	
213	TYPE "K" MH	R-3010	722.54	48" RCP 712.31 (NW) [210] 12" RCP 716.21 (SW) [211] 12" RCP 718.81 (S) [212]	48" RCP 712.31 (E) [217]	113'	48"	0.17%	217	
214	TYPE "B" INLET	R-3287-15	720.44		15" RCP 716.39 (N) [216]	21'	15"	0.25%	216	
215	TYPE "A" INLET	R-3010	722.42		12" RCP 718.73 (W) [216]	112'	12"	0.35%	216	
216	TYPE "C" MH	R-3010	722.74	15" RCP 716.34 (S) [214] 12" RCP 718.34 (E) [215]	15" RCP 716.34 (N) [217]	120'	15"	0.60%	217	
217	TYPE "K" MH	R-3472	723.09	48" RCP 712.12 (W) [213] 15" RCP 715.62 (S) [216]	48" RCP 712.12 (E) [218]	112'	48"	0.19%	218	
218	TYPE "K" MH	R-3455-C	722.42	48" RCP 711.91 (W) [217]	48" RCP 711.91 (E) [222]	144'	48"	0.20%	222	
219	TYPE "J" INLET	R-3287-SB10	720.73		15" RCP 716.75 (N) [221]	11'	15"	0.25%	221	
220	TYPE "A" INLET	R-3010	722.63		12" RCP 718.85 (W) [221]	108'	12"	0.35%	221	
221	TYPE "C" MH	R-3010	722.26	15" RCP 716.72 (S) [219] 12" RCP 718.47 (E) [220]	15" RCP 716.72 (N) [222]	120'	15"	0.50%	222	
222	TYPE "L" MH	R-3472	722.57	48" RCP 711.62 (W) [218] 15" RCP 716.12 (S) [221]	54" RCP 711.62 (E) [223]	108'	54"	0.12%	223	
223	TYPE "L" MH	R-3455-C	722.63	54" RCP 711.49 (W) [222]	54" RCP 711.49 (E) [225]	144'	54"	0.12%	225	
224	TYPE "A" INLET	R-3010	722.54		12" RCP 718.67 (N) [225]	102'	12"	0.35%	225	
225	TYPE "L" MH	R-3472	722.55	54" RCP 711.32 (W) [223] 12" RCP 718.32 (S) [224]	54" RCP 711.32 (E) [226]	110'	54"	0.12%	226	
226	TYPE "L" MH	R-3010	722.45	54" RCP 711.18 (W) [225]	54" RCP 711.18 (E) [227]	93'	54"	0.12%	227	
227	TYPE "L" MH	R-3287-SB10	719.50	54" RCP 711.06 (W) [226]	54" RCP 711.06 (E) [228]	110'	54"	0.13%	228	
228	54" CONCRETE END SECTION	-		54" RCP 710.92 (W) [227]						DEBRIS GUARD REQUIRED
301	TYPE "J" MH	R-3287-15	718.71		15" RCP 715.05 (S) [302]	129'	15"	0.40%	302	
302	TYPE "J" MH	R-3287-15	718.71	15" RCP 714.53 (N) [301]	30" RCP 712.43 (S) [305]	129'	30"	0.65%	305	
304	TYPE "J" MH	R-3287-15	718.69		15" RCP 715.02 (N) [305]	131'	15"	0.40%	305	
305	TYPE "J" MH	R-3287-15	718.71	30" RCP 711.60 (N) [302] 15" RCP 714.50 (S) [304]	36" RCP 711.10 (E) [306]	44'	36"	0.40%	306	
306	36" CONCRETE END SECTION	-		36" RCP 710.92 (W) [305]						DEBRIS GUARD REQUIRED
401	TYPE "B" INLET	R-3287-15	718.16		15" RCP 714.27 (S) [402]	90'	15"	0.38%	402	
402	TYPE "C" MH	R-3287-SB10	718.25	15" RCP 713.93 (N) [401]	18" RCP 713.93 (S) [403]	129'	18"	0.31%	403	
403	TYPE "C" MH	R-3287-SB10	718.25	18" RCP 713.53 (N) [402]	18" RCP 713.53 (S) [404]	129'	18"	0.58%	404	
404	TYPE "C" MH	R-3287-SB10	718.25	18" RCP 712.78 (N) [403]	24" RCP 712.78 (S) [405]	129'	24"	0.20%	405	
405	TYPE "C" MH	R-3287-SB10	718.25	24" RCP 712.52 (N) [404]	24" RCP 712.52 (S) [406]	129'	24"	0.28%	406	
406	TYPE "C" MH	R-3287-SB10	718.25	24" RCP 712.16 (N) [405]	24" RCP 712.16 (S) [407]	129'	24"	0.37%	407	
407	TYPE "C" MH	R-3287-SB10	718.25	24" RCP 711.69 (N) [406]	24" RCP 711.69 (SW) [408]	149'	24"	0.51%	408	
408	24" CONCRETE END SECTION	-		24" RCP 710.92 (NE) [407]						DEBRIS GUARD REQUIRED
701	36" CONCRETE END SECTION	-			36" RCP 714.46 (S) [702]	92'	36"	0.31%	702	DEBRIS GUARD REQUIRED
702	TYPE "J" MH	R-4342	722.28	36" RCP 714.18 (N) [701]	36" RCP 714.18 (E) [703]	257'	36"	0.29%	703	
703	TYPE "J" MH	R-4342	721.62	36" RCP 713.44 (W) [702]	36" RCP 713.44 (E) [704]	289'	36"	0.29%	704	
704	TYPE "J" MH	R-4342	724.18	36" RCP 712.60 (W) [703]	36" RCP 712.60 (E) [705]	395'	36"	0.29%	705	
705	TYPE "J" MH	R-1772	717.76	36" RCP 711.46 (W) [704]	36" RCP 711.46 (E) [706]	184'	36"	0.29%	706	
706	36" CONCRETE END SECTION	-		36" RCP 710.92 (W) [705]						DEBRIS GUARD REQUIRED
710	TYPE "E" INLET	R-4215-C	715.04		15" RCP 711.62 (E) [711]	47'	15"	1.48%	711	
711	15" CONCRETE END SECTION	-		15" RCP 710.92 (W) [710]						DEBRIS GUARD REQUIRED
801	TYPE "J" MH	R-4342	719.50		24" RCP 710.42 (E) [802]	266'	24"	0.15%	802	OUTLET CONTROL STRUCTURE
802	24" CONCRETE END SECTION	-		24" RCP 710.03 (W) [801]						DEBRIS GUARD REQUIRED
900	15" CONCRETE END SECTION	-			15" RCP 722.22 (E) []	26'	15"	0.42%		DEBRIS GUARD REQUIRED

STORM STRUCTURE DATA TABLE NOTE: ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE--DRAINS TO WATERWAY"										
STR. NO.	STRUCTURE TYPE	CASTING TYPE	TOP OF RIM	INCOMING PIPE DATA (DIRECTION) [FROM STR]	OUTGOING PIPE DATA (DIRECTION) [TO STR]	OUTGOING PIPE L.F.	OUTGOING PIPE SIZE	OUTGOING GRADE (%)	CONNECT TO STRUCT	REMARKS
001	48" SANITARY MH	SEE DETAIL	715.16		7" PVC SDR 26 701.74 (S) [002]	322'	7"	0.45%	002	SANITARY MANHOLE
002	48" SANITARY MH	SEE DETAIL	717.34	7" PVC SDR 26 700.29 (N) [001]	7" PVC SDR 26 700.19 (E) [003]	314'	7"	0.45%	003	SANITARY MANHOLE
003	48" SANITARY MH	SEE DETAIL	717.55	7" PVC SDR 26 698.78 (W) [002]	7" PVC SDR 26 698.68 (E) [EX 004]	314'	7"	0.45%	EX 004	SANITARY MANHOLE
EX 004	48" SANITARY MH	SEE DETAIL	715.60	7" PVC SDR 26 697.27 (W) [003]						SANITARY MANHOLE

EXISTING LEGEND

BEEHIVE INLET

COMBINATION POLE

ELECTRIC METER BOX

GAS MARKER SIGN

GUY WIRE

HOSE BIB

INLET

MAILBOX

PINE

POST

POWER POLE

RIGHT OF WAY MONUMENT

SIGN

STAND PIPE

STUMP

SUB SURFACE DRAIN

TEMPORARY BENCH MARK

TEST HOLE

TELEPHONE MARKER SIGN

TELEPHONE PEDESTAL

TRANSFORMER

TREE

VENT

WELL

BENCHMARK DATA

(NAVD '88)
HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR
INGOS JOHNSON COUNTY, IN
ASI TBM #32
CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE
OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40
ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER
OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39
ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792
SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX
#5557.
ELEV = 721.56
ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF
CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44
LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38
ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON
WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH
OF SR 44.
ELEV = 735.00
ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON
WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF
SOUTH PROPERTY LINE.
ELEV = 724.93

GENERAL NOTES:

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PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.

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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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- INDIANA UNDERGROUND -

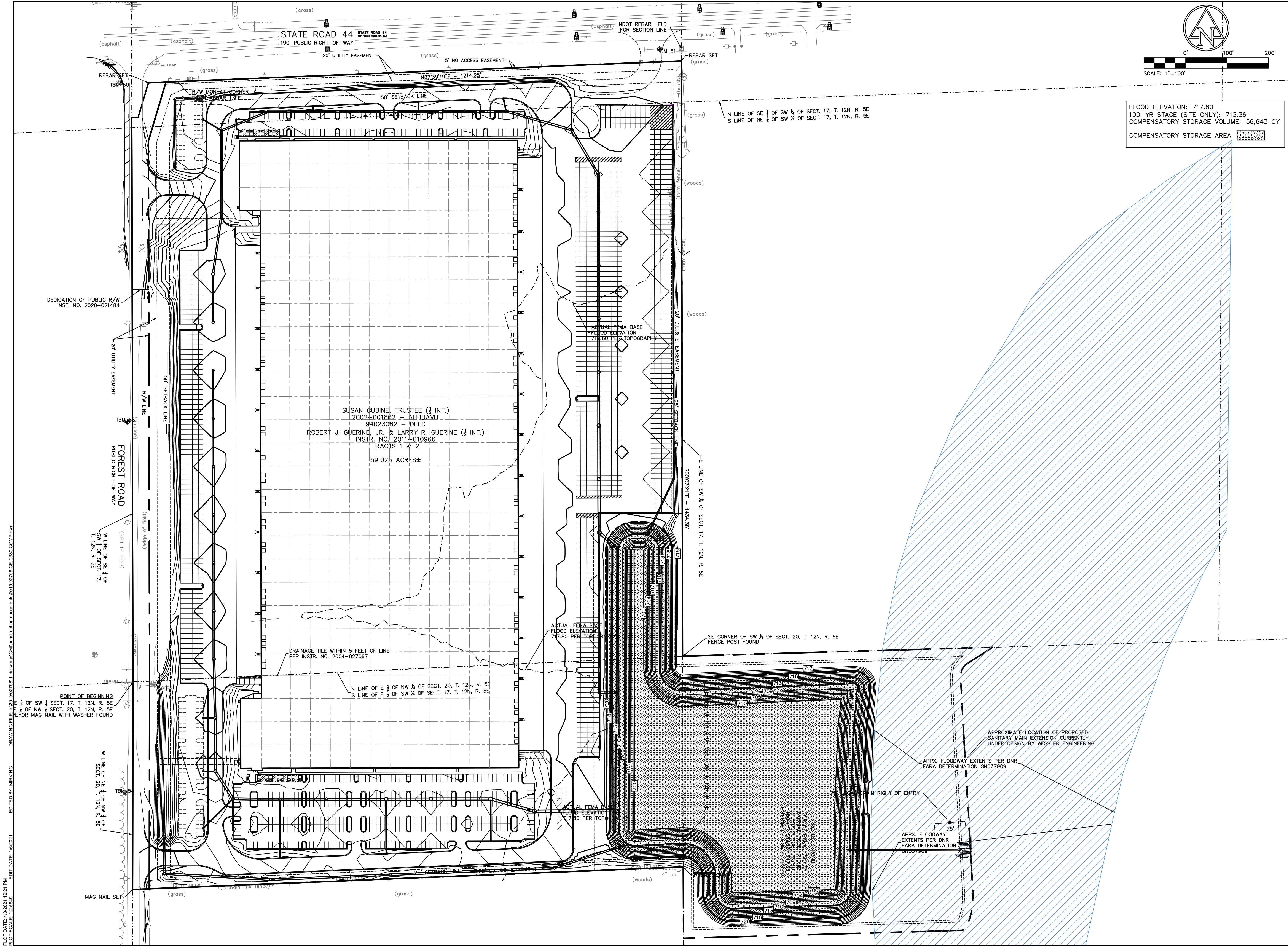
GDI CONSTRUCTION

9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100

AMERICAN
STRUCTUREPOINT
INC.

9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.54

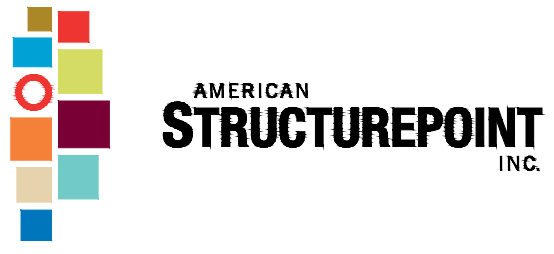


FLOOD ELEVATION: 717.80
100-YR STAGE (SITE ONLY): 713.36
COMPENSATORY STORAGE VOLUME: 56,643 CY
COMPENSATORY STORAGE AREA



GDI CONSTRUCTION

9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256
317.567.6100



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

I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana



ISSUANCE INDEX		
DATE:	04/07/2021	
PROJECT PHASE:	CONSTRUCTION DOCUMENTS	

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2019.02798

COMPENSATORY STORAGE AREA

C330

PLOT DATE: 4/8/2021 12:21 PM
PLOT SCALE: 1:2,500
DRAWING FILE: P:\2019\02798\Drawings\Construction\2019.02798.CE.C330.COMP.dwg
EDIT DATE: 1/6/2021
EDITED BY: MIRVING

DEDICATION OF PUBLIC R/W
INST. NO. 2020-021484

GENERAL NOTES:

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!! CAUTION !!

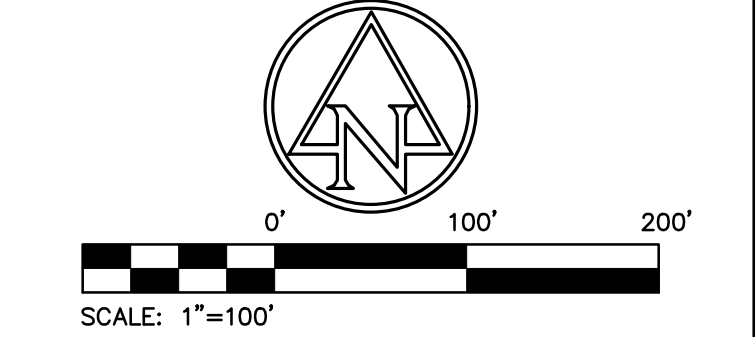
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CALL TOLL FREE
"811" OR 1-800-382-5544
- INDIANA UNDERGROUND -

UTILITY NOTES:

- ALL HYDRANTS ARE TO BE YELLOW IF PUBLIC, RED IF PRIVATE WITH THE TOP CAP COLOR CODED TO SHOW WATER FLOW: 1500 GPM = BLUE, 1000-1499 GPM = GREEN, 500-999 GPM = ORANGE
- ALL HYDRANTS ARE TO HAVE A S.T.O.R.Z. CONNECTION
- ALL EXTERIOR LIGHTING MUST UTILIZE 90 DEGREE CUTOFF LIGHTING FIXTURES AND BE NO HIGHER THAN 30 FEET.
- FDC AND PIV MUST BE CLEARLY IDENTIFIED WITH APPROPRIATE SIGNAGE (PER LOCAL FIRE DEPT STANDARDS)
- A MINIMUM OF 2.5' OF COVER TO BE MAINTAINED OVER TOP OF THE PROPOSED SANITARY SEWER.

UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
GAS	VECTREN	JON EASTHAM	(765) 287-2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404



EXISTING LEGEND

- | | |
|-----------------------|-----------------------|
| BEEHIVE INLET | STAND PIPE |
| COMBINATION POLE | STUMP |
| ELECTRIC METER BOX | SUB SURFACE DRAIN |
| GAS MARKER SIGN | TEMPORARY BENCH MARK |
| GUY WIRE | TEST HOLE |
| HOSE BIB | TELEPHONE MARKER SIGN |
| INLET | TELEPHONE PEDESTAL |
| MAILBOX | TRANSFORMER |
| PINE | TREE |
| POST | VENT |
| POWER POLE | WELL |
| RIGHT OF WAY MONUMENT | |
| SIGN | |

UTILITY LEGEND

- | | |
|-----|------------------------------------|
| ETC | ELECTRIC / TELECOMMUNICATIONS LINE |
| W | WATER LINE |
| FP | FIRE PROTECTION LINE |
| RD | ROOF DRAIN LINE |
| G | GAS LINE |
| SS | SANITARY SEWER LINE |
| | STORM SEWER LINE |
| | PAVEMENT UNDERDRAIN |
| | GAS METER |
| | ELECTRICAL TRANSFORMER |
| | VALVE |
| | WATER FITTINGS |
| | WATER METER PIT |
| | FIRE HYDRANT W/ ASSEMBLY |

KEYNOTES

- SANITARY SEWER
- S1. 6" SDR-26 PVC SANITARY LATERAL @ 1.04% MIN. SLOPE
- S2. 8" SDR-26 PVC SANITARY MAIN @ 0.45% MIN. SLOPE
- S3. SANITARY CLEAN OUT
- DRAINAGE/STORM SEWER
- D1. 15" HDPE ROOF DRAIN @ 0.75% MIN. SLOPE
- D2. 6" PERFORATED DUAL WALL HDPE SUBSURFACE DRAIN @ 0.25% MIN. SLOPE
- D3. 24" HDPE ROOF DRAIN @ 0.50% MIN. SLOPE
- D4. ROOF DRAIN CLEAN OUT
- D5. PAVEMENT UNDER DRAIN
- D6. CONNECT ROOF DRAIN TO STRUCTURE
- D7. CONCRETE END SECTION
- D8. NOT USED
- D9. 48" TYPE C MANHOLE W/R-3472 GRATE
- WATERLINE
- W1. 12" DUCTILE IRON WATER MAIN
- W2. 3" PE DR 11 DOMESTIC WATER SERVICE
- W3. 10" C900 PVC FIRE PROTECTION LINE
- W4. FIRE HYDRANT W/ ASSEMBLY
- W5. FIRE DEPARTMENT CONNECTION (MUST INCLUDE S.T.O.R.Z. CONNECTION WITH 30 DEGREE DOWN TURN)
- W6. WATER BEND W/ CONCRETE THRUST BLOCK
- W7. WATER TEE W/ CONCRETE THRUST BLOCK
- W8. WATER VAULT PER IAW STANDARDS
- W9. WATER VALVE W/ CONCRETE THRUST BLOCK
- W10. POST INDICATOR VALVE (PER LOCAL FIRE DEPT. STANDARDS)
- W11. CONNECT TO EXISTING WATER MAIN STUB
- W12. TEMPORARY DEAD-END FIRE HYDRANT W/ ASSEMBLY (PER IAW STANDARDS)
- W13. 6" C900 PVC FIRE PROTECTION LINE
- W14. WATER STORAGE TANK
- GAS
- G1. GAS METER
- G2. GAS SERVICE LINE
- ELECTRIC \ TELECOMMUNICATIONS
- E1. ELECTRIC TRANSFORMER (COORDINATE W/ LOCAL UTILITY FOR PAD REQUIREMENTS)
- E2. ELECTRIC SERVICE LINE (2-4" SCH 40 PVC CONDUITS)
- E3. RELOCATED TELECOM HANDHOLE (COORDINATE LOCATION WITH UTILITY PROVIDER)
- E4. RELOCATED TELECOM PEDESTAL (COORDINATE LOCATION WITH UTILITY PROVIDER)
- E5. RELOCATED ELECTRIC TRANSFORMER (COORDINATE LOCATION WITH UTILITY PROVIDER)
- E6. RELOCATED ELECTRIC/TELECOM LINE
- E7. RELOCATED OVERHEAD TELECOM POLE.
- MISCELLANEOUS
- M1. POTENTIAL UTILITY CONFLICT (ALL WATER / SANITARY / STORM CROSSINGS TO HAVE A MINIMUM OF 18" VERTICAL CLEARANCE. CONTACT ENGINEER IF CONFLICTS EXIST. RELOCATE EXISTING UTILITIES AS REQUIRED.
- M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SIZE OF EXISTING UTILITIES TO ENSURE CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.
- M3. CONTRACTOR TO COORDINATE UTILITY CONNECTION WITH UTILITY PROVIDER.
- M4. CONTRACTOR SHALL EXTEND EXISTING CULVERT ACROSS ROAD EXTENSION.



GDI CONSTRUCTION

9775 Crosspoint Blvd
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LOGISTICS CENTER
LOT 1

81/89 Forest Road
Franklin, Indiana



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ISSUANCE INDEX

DATE:
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PROJECT PHASE:
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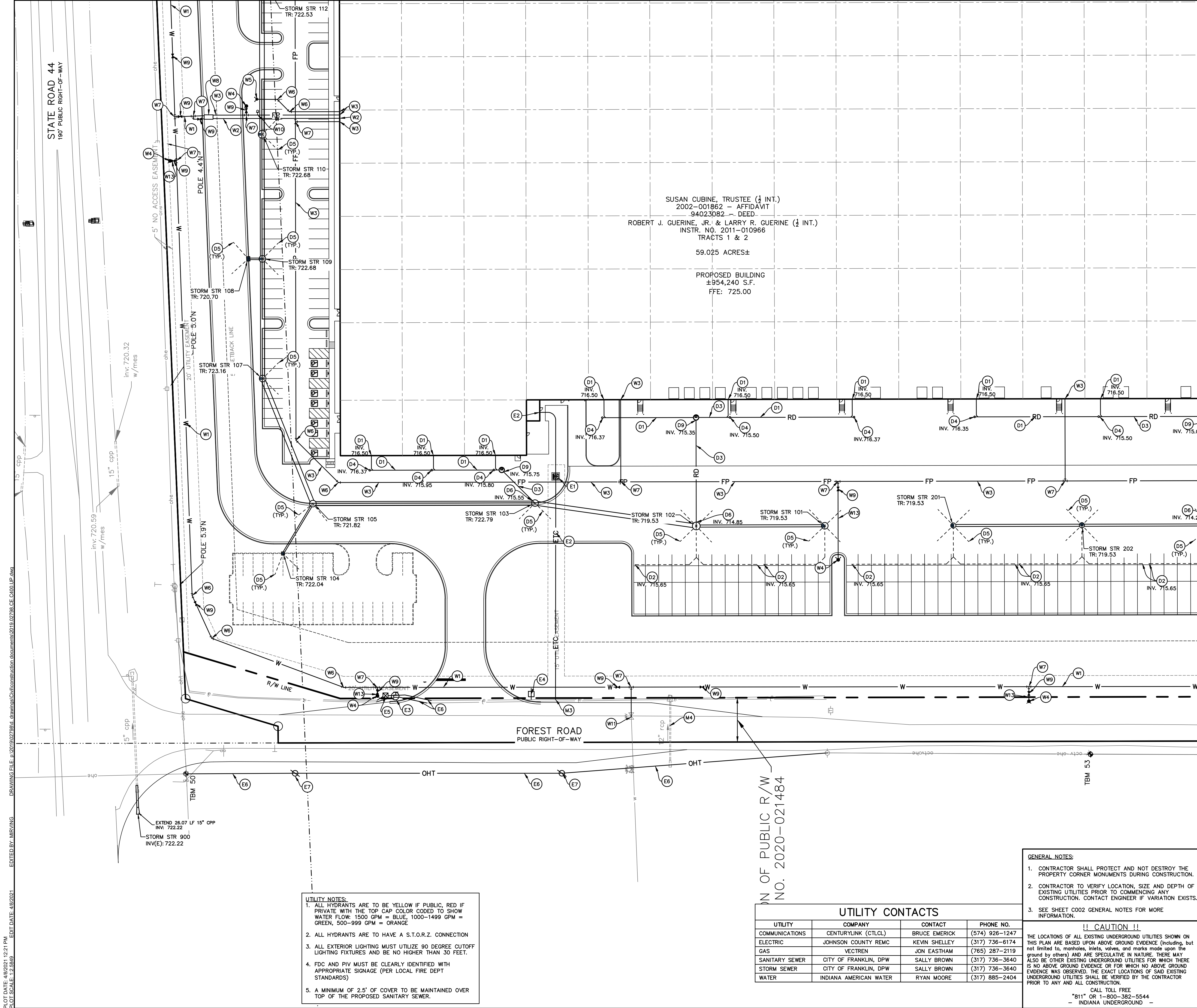
REVISION SCHEDULE

NO.	DESCRIPTION	DATE

Project Number 2019.02798

OVERALL OVERALL
UTILITY PLAN

C400



0' 40' 80'

SCALE: 1"=40'

EXISTING LEGEND

	BEEHIVE INLET		STAND PIPE
	COMBINATION POLE		STUMP
	ELECTRIC METER BOX		SUB SURFACE DRAIN
	GAS MARKER SIGN		TEMPORARY BENCH MARK
	GUY WIRE		TEST HOLE
	HOSE BIB		TELEPHONE MARKER SIGN
	INLET		TELEPHONE PEDESTAL
	MAILBOX		TRANSFORMER
	PINE		TREE
	POST		VENT
	POWER POLE		WELL
	RIGHT OF WAY MONUMENT		
	SIGN		

UTILITY LEGEND

	ETC		ELECTRIC / TELECOMMUNICATIONS LINE
	W		WATER LINE
	FP		FIRE PROTECTION LINE
	RD		ROOF DRAIN LINE
	G		GAS LINE
	SS		SANITARY SEWER LINE
	STORM SEWER LINE		STORM SEWER LINE
	PAVEMENT UNDERDRAIN		GAS METER
	VALVE		ELECTRICAL TRANSFORMER
	WATER FITTINGS		
	WATER METER PIT		
	FIRE HYDRANT W/ ASSEMBLY		

KEYNOTES

SANITARY SEWER

- S1. 6" SDR-26 PVC SANITARY LATERAL @ 1.04% MIN. SLOPE
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- W1. 12" DUCTILE IRON WATER MAIN
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- W13. 6" C900 PVC FIRE PROTECTION LINE
- W14. WATER STORAGE TANK

GAS

- G1. GAS METER
- G2. GAS SERVICE LINE
- G3. ELECTRIC / TELECOMMUNICATIONS

ELECTRIC

- E1. ELECTRIC TRANSFORMER (COORDINATE W/ LOCAL UTILITY FOR PAD REQUIREMENTS)
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GDI CONSTRUCTION

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I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana

CERTIFIED BY

Justin M. Clark

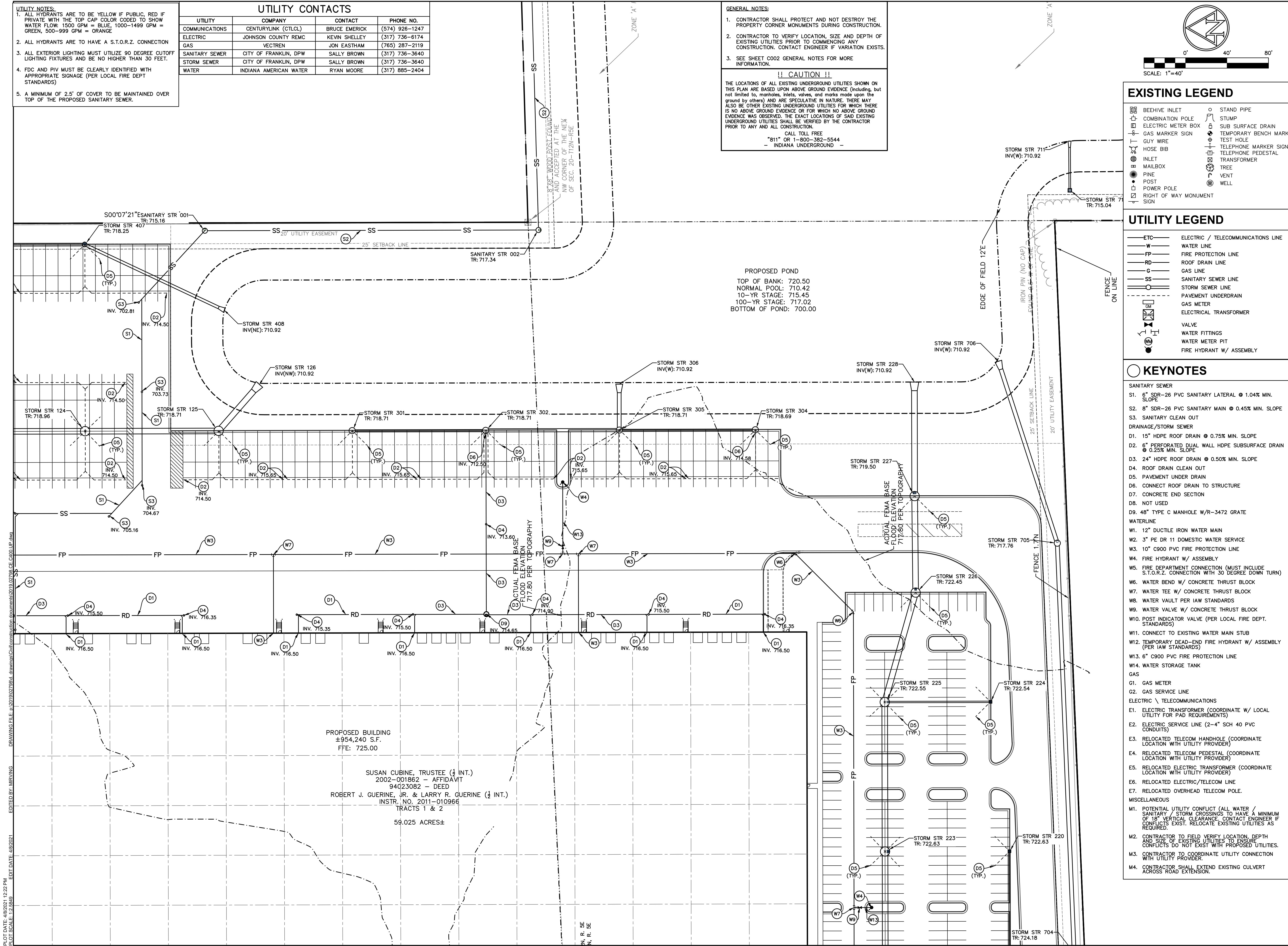
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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE

Project Number 2019.02798

UTILITY PLAN

C401

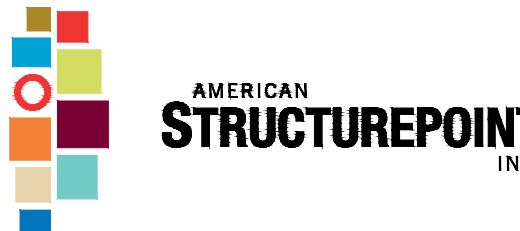




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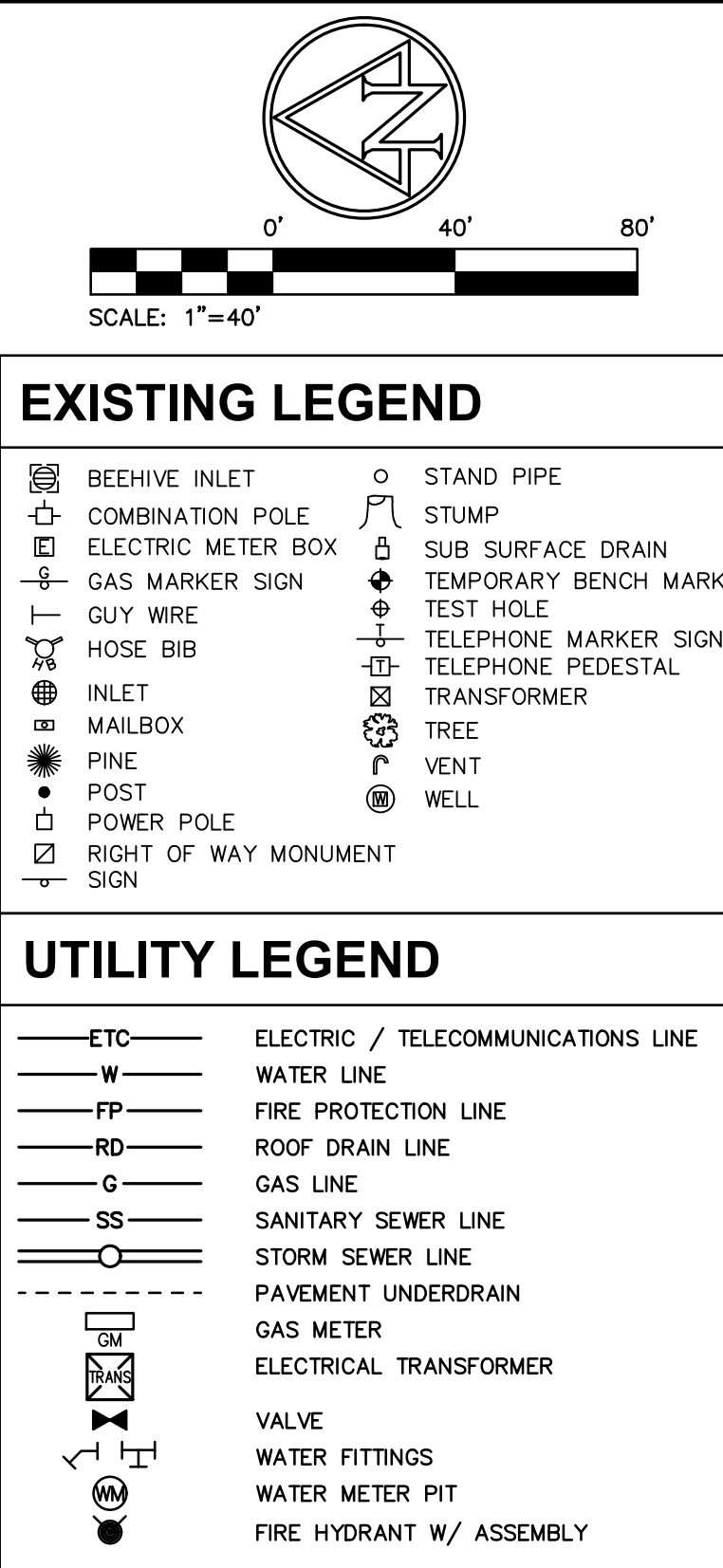
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Project Number 2019.02798

UTILITY PLAN

C403

UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 738-1874
GAS	VECTREN	JON EASTHAM	(765) 287-2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 738-3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 738-3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404



KEYNOTES

SANITARY SEWER

S1. 6" SDR-26 PVC SANITARY LATERAL @ 1.04% MIN. SLOPE

S2. 8" SDR-26 PVC SANITARY MAIN @ 0.45% MIN. SLOPE

S3. SANITARY CLEAN OUT

DRAINAGE/STORM SEWER

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D3. 24" HDPE ROOF DRAIN @ 0.50% MIN. SLOPE

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D5. PAVEMENT UNDER DRAIN

D6. CONNECT ROOF DRAIN TO STRUCTURE

D7. CONCRETE END SECTION

D8. NOT USED

D9. 48" TYPE C MANHOLE W/R-3472 GRATE

WATERLINE

W1. 12" DUCTILE IRON WATER MAIN

W2. 3" PE DR 11 DOMESTIC WATER SERVICE

W3. 10" C900 PVC FIRE PROTECTION LINE

W4. FIRE HYDRANT W/ ASSEMBLY

W5. FIRE DEPARTMENT CONNECTION (MUST INCLUDE S.T.O.R.Z. CONNECTION WITH 30 DEGREE DOWN TURN)

W6. WATER BEND W/ CONCRETE THRUST BLOCK

W7. WATER TEE W/ CONCRETE THRUST BLOCK

W8. WATER VAULT PER IAW STANDARDS

W9. WATER VALVE W/ CONCRETE THRUST BLOCK

W10. POST INDICATOR VALVE (PER LOCAL FIRE DEPT. STANDARDS)

W11. CONNECT TO EXISTING WATER MAIN SUB

W12. TEMPORARY DEAD-END FIRE HYDRANT W/ ASSEMBLY (PER IAW STANDARDS)

W13. 6" C900 PVC FIRE PROTECTION LINE
W14. WATER STORAGE TANK
GAS
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MISCELLANEOUS

- M1. POTENTIAL UTILITY CONFLICT (ALL WATER / SANITARY / STORM CROSSINGS TO HAVE A MINIMUM OF 12" CRITICAL CLEARANCE TO ALL EXISTING UTILITY CONFLICTS EXIST. FIELD EXISTING UTILITIES AS REQUIRED.
- M2. CONTRACTOR TO FIELD VERIFY LOCATION, DEPTH AND SPACING OF EXISTING UTILITIES TO ENSURE

CONFLICTS DO NOT EXIST WITH PROPOSED UTILITIES.

M3. CONTRACTOR TO COORDINATE UTILITY CONNECTION WITH UTILITY PROVIDER.

M4. CONTRACTOR SHALL EXTEND EXISTING CULVERT ACROSS ROAD EXTENSION.

--	--



317.567.6100



9025 River Road, Suite 200 | Indianapolis, Indiana 46240
TEL 317.547.5580 | FAX 317.543.0270
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81/89 Forest Road
Franklin, Indiana



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Project Number	2019.02798
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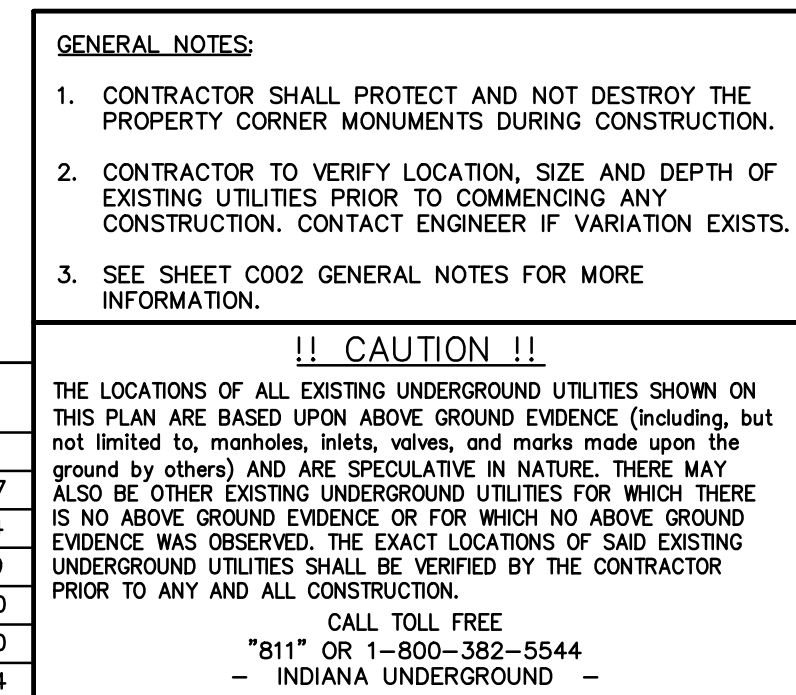
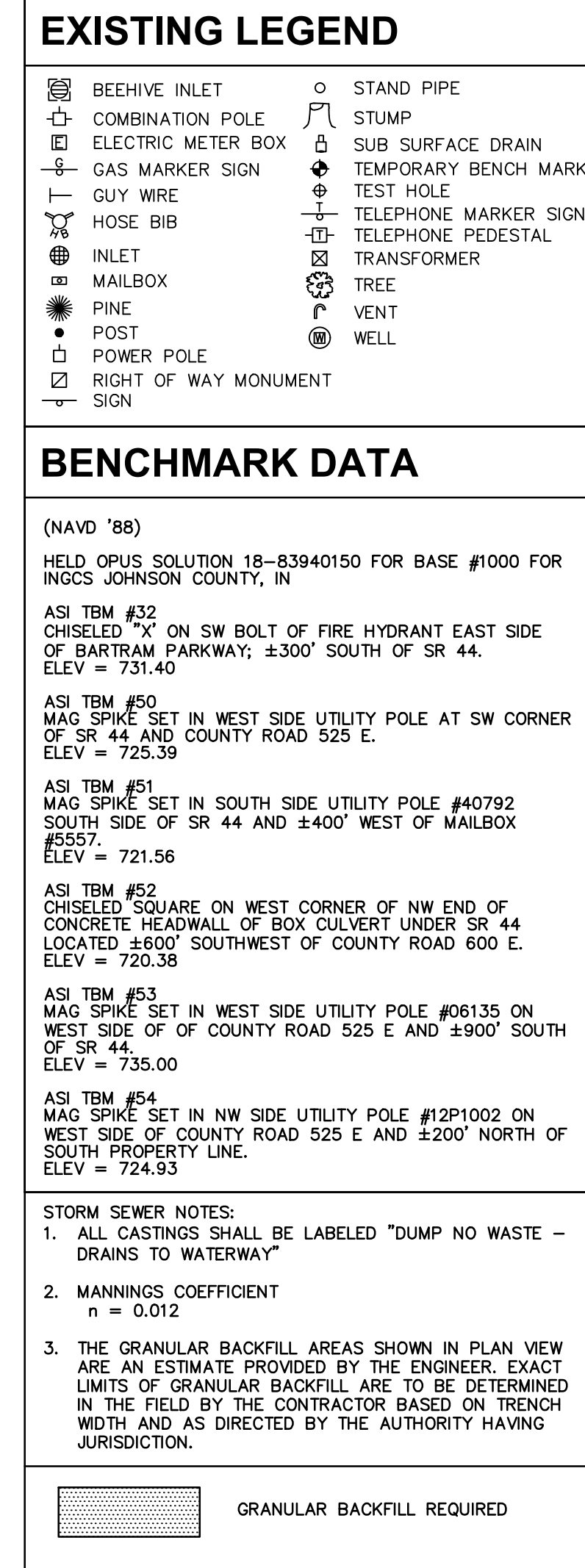
UTILITY PLAN


C404

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REVISION Schedule

No.	Description	Date

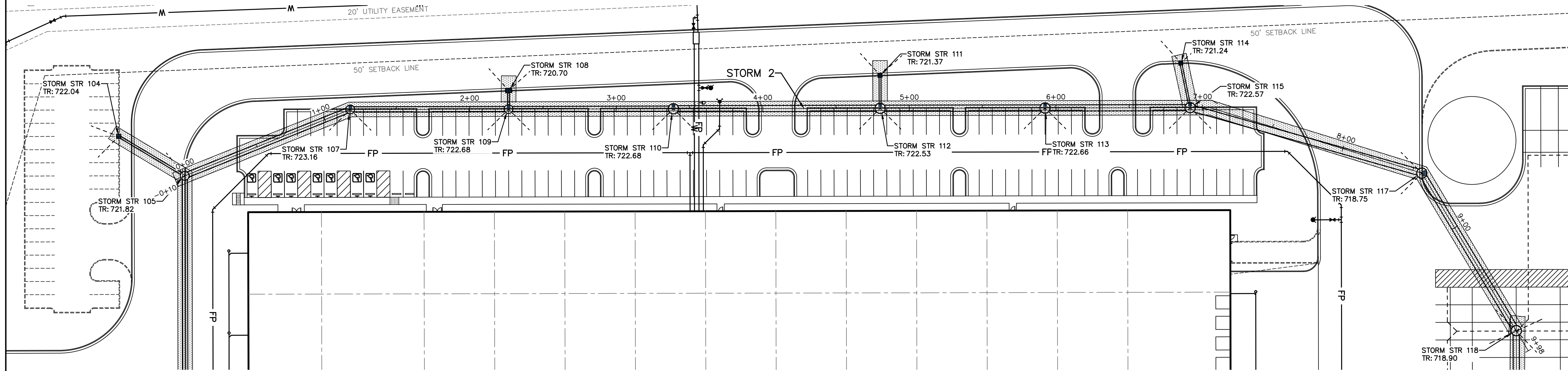
Project Number

2019.02798

STORM SEWER PLAN
AND PROFILE

C420

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PP: 300
EDIT DATE: 3/10/2021
EDITED BY: MIRVING



EXISTING LEGEND

BEEHIVE INLET	STAND PIPE
COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
GAS MARKER SIGN	TEMPORARY BENCH MARK
GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT	
SIGN	

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INGRES JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.53

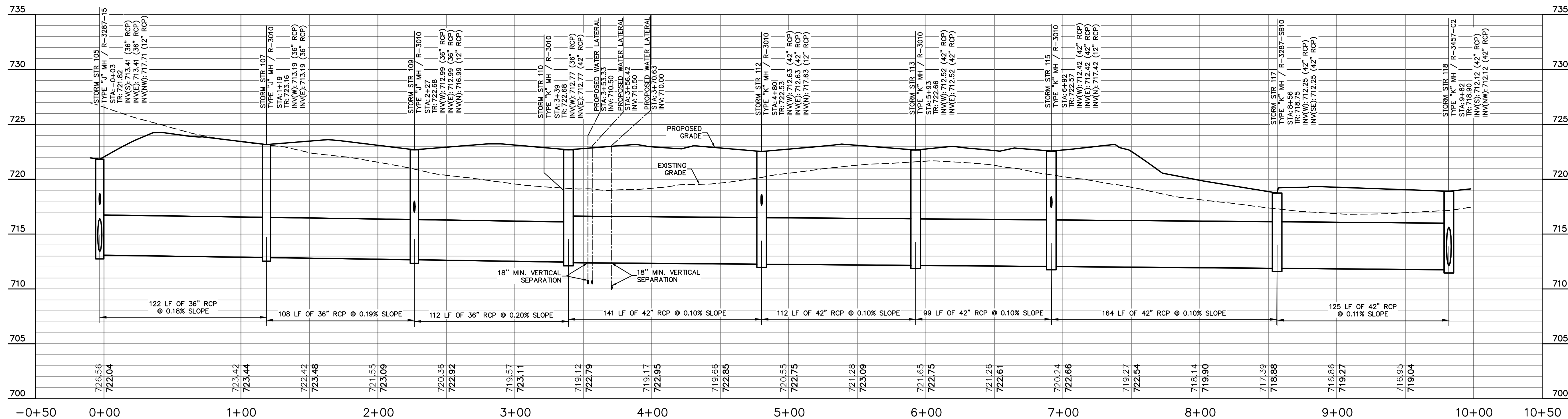
STORM SEWER NOTES:

- ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE - DRAINS TO WATERWAY"
- MANNINGS COEFFICIENT
 $n = 0.012$
- 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.

SCALE: HORZ. 1"=40'
VERT. 1"=5'

GRANULAR BACKFILL REQUIRED

STORM 2



UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
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STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404

GENERAL NOTES:

- CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
- CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.
- 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 -

GDI CONSTRUCTION
9775 Crosspoint Blvd
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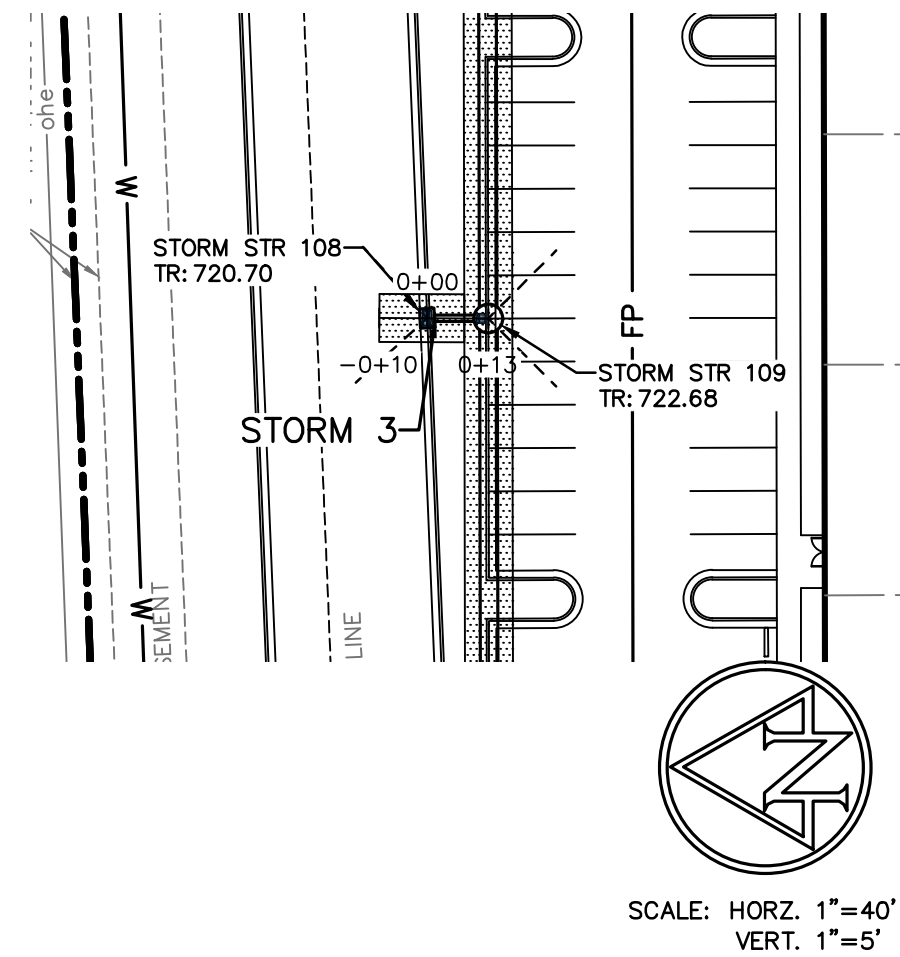
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Project Number 2019.02798

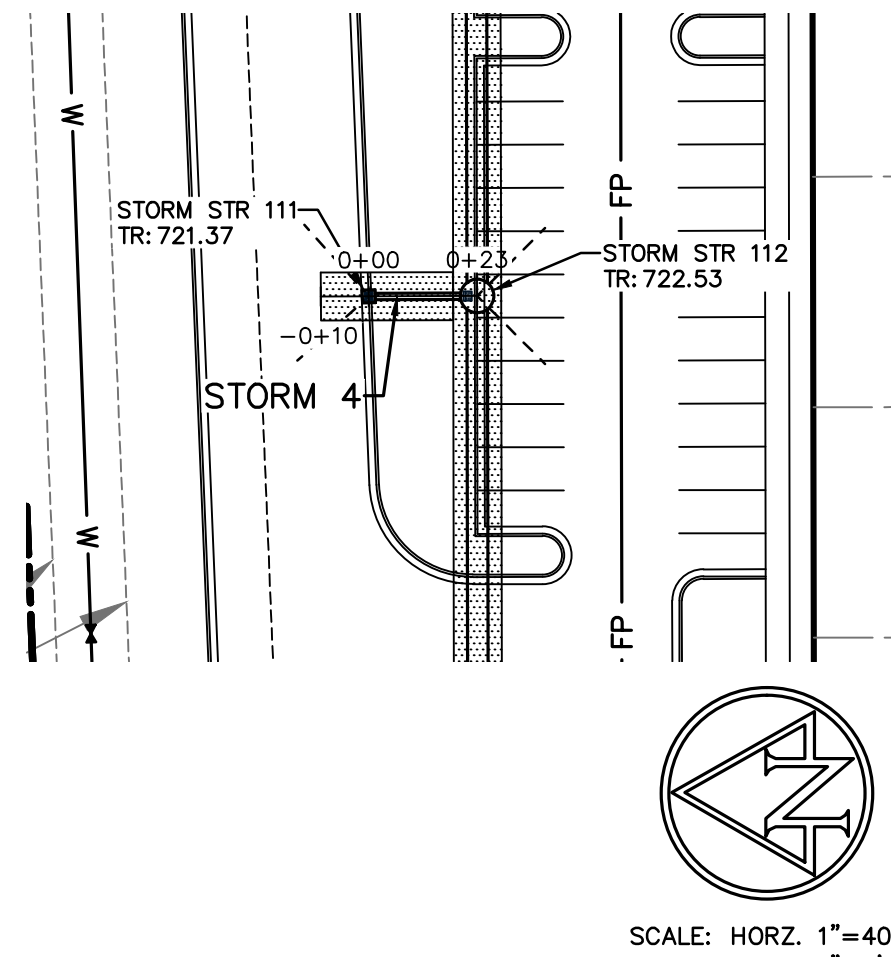
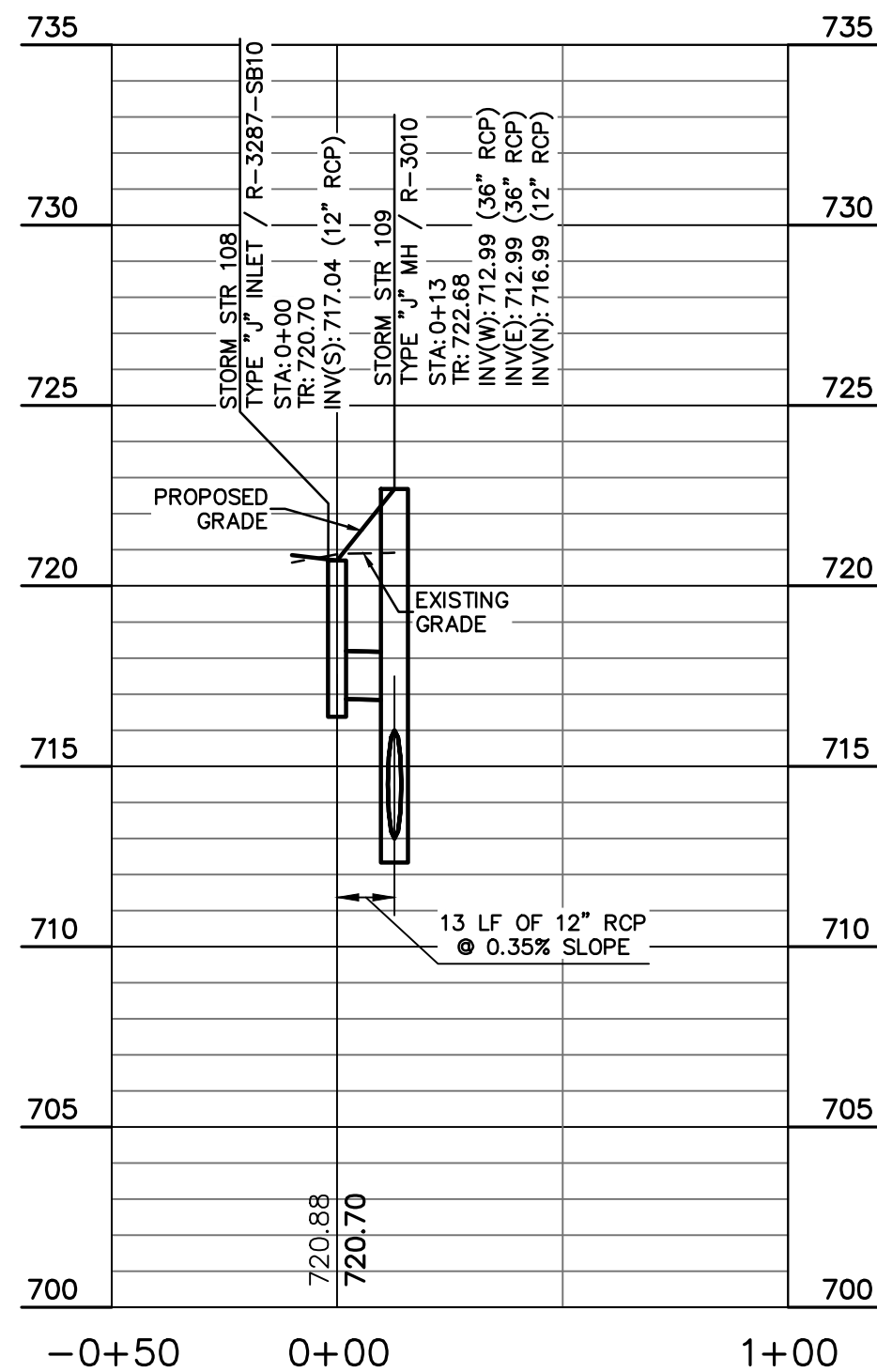
STORM SEWER PLAN AND PROFILE

C421

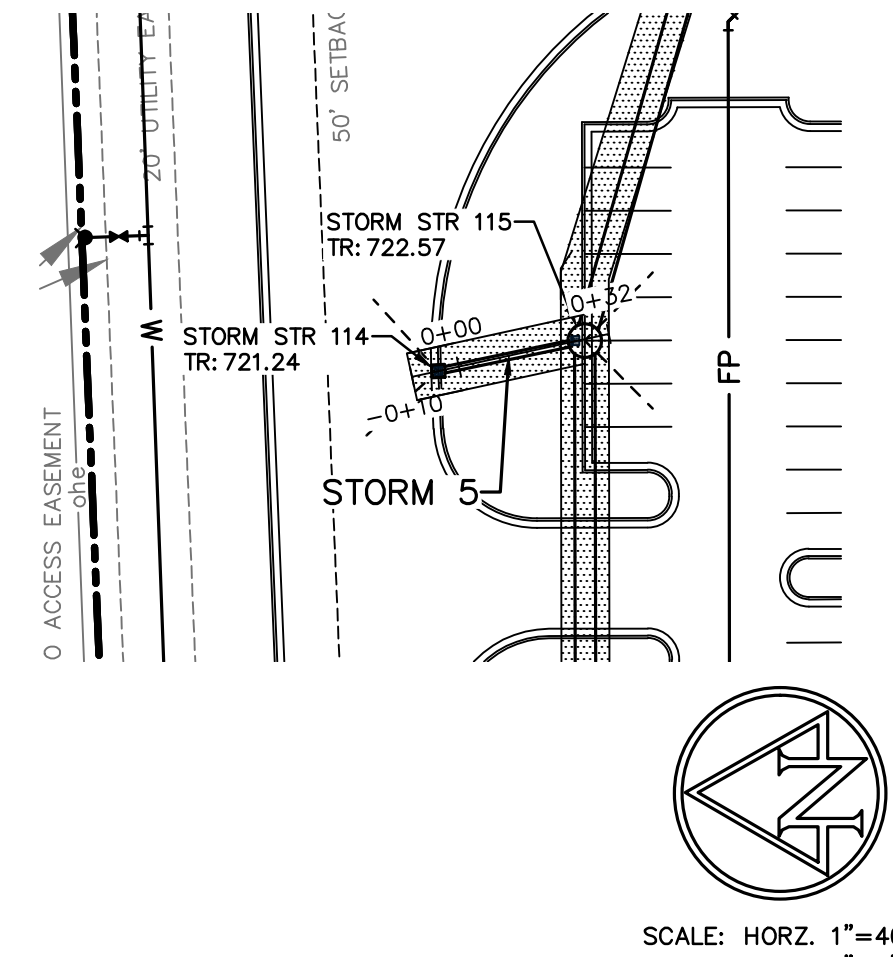
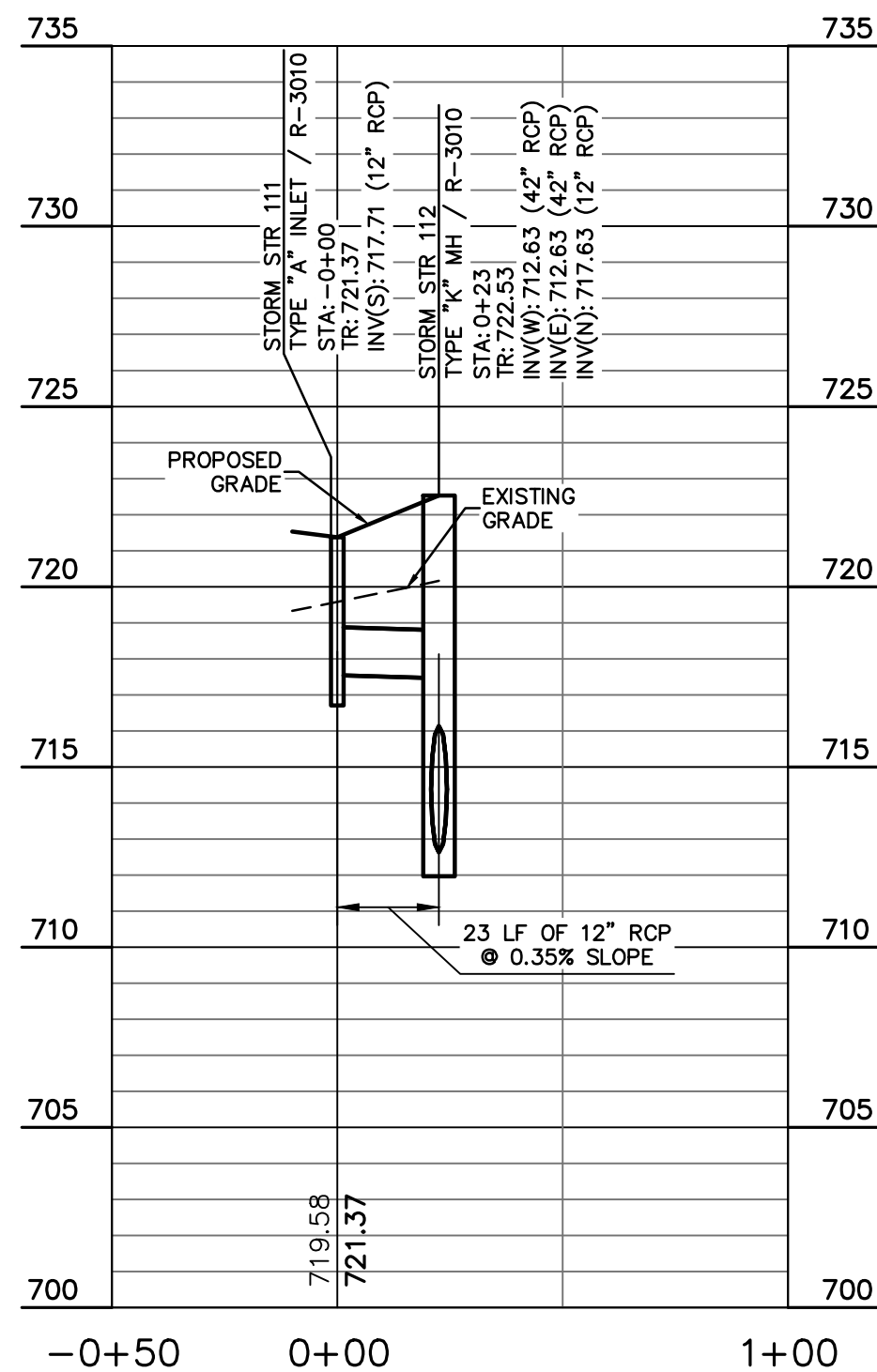
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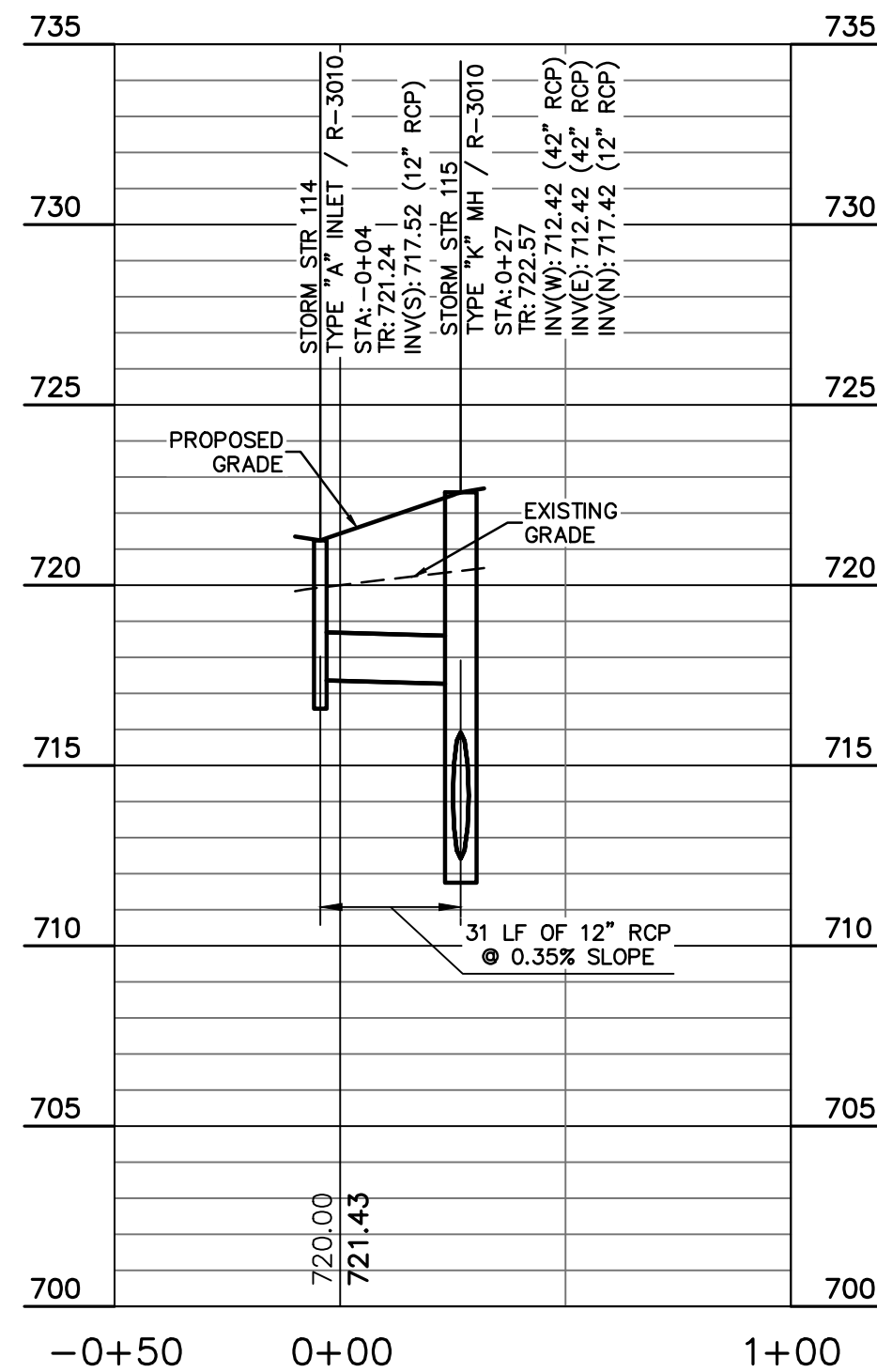
STORM 3



STORM 4



STORM 5



UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
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WATER	INDIANA AMERICAN WATER	RYAN MOORE	(317) 885-2404

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COMBINATION POLE	STUMP
ELECTRIC METER BOX	SUB SURFACE DRAIN
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GUY WIRE	TEST HOLE
HOSE BIB	TELEPHONE MARKER SIGN
INLET	TELEPHONE PEDESTAL
MAILBOX	TRANSFORMER
PINE	TREE
POST	VENT
POWER POLE	WELL
RIGHT OF WAY MONUMENT	
SIGN	

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

ASI TBM #32
CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
ELEV = 731.40

ASI TBM #50
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ELEV = 725.39

ASI TBM #51
MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
ELEV = 721.56

ASI TBM #52
CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
ELEV = 720.38

ASI TBM #53
MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
ELEV = 735.00

ASI TBM #54
MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
ELEV = 724.93

- STORM SEWER NOTES:
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 - MANNINGS COEFFICIENT
 $n = 0.012$
 - 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

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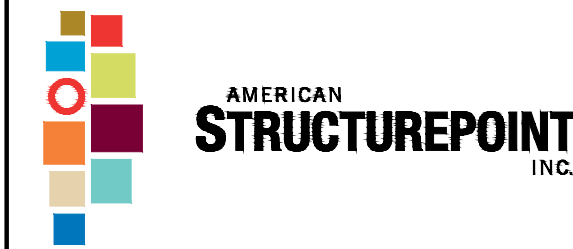
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LOT 1

81/89 Forest Road
Franklin, Indiana



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ISSUANCE INDEX

DATE:	04/07/2021
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REVISION SCHEDULE

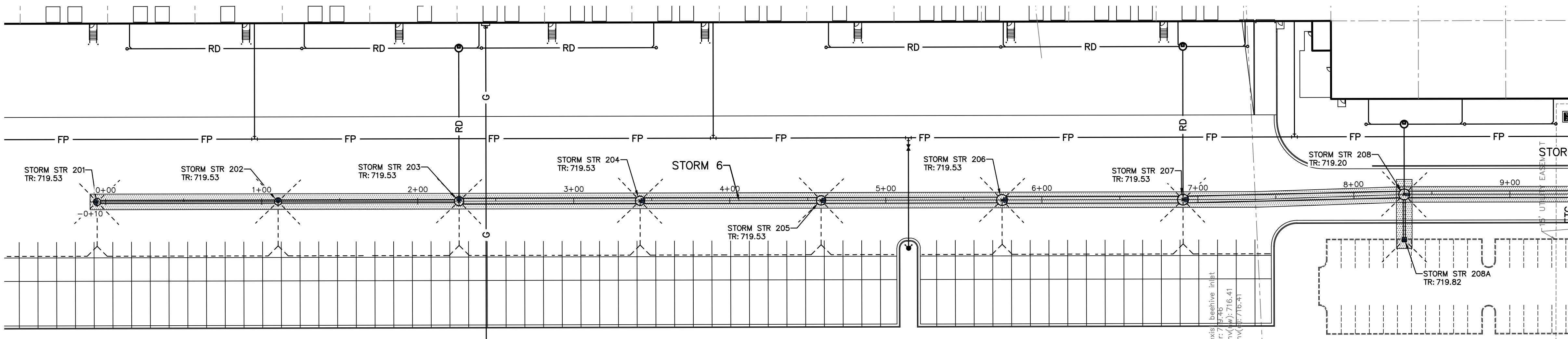
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Project Number 2019.02798

STORM SEWER PLAN
AND PROFILE

C422

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DRAWING FILE: p:\2019\02788\c242\storm\c242.stm
EDIT DATE: 3/10/2021
EDITED BY: MIRVING



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- GRANULAR BACKFILL REQUIRED

EXISTING LEGEND

- | | |
|-----------------------|-----------------------|
| BEEHIVE INLET | STAND PIPE |
| COMBINATION POLE | STUMP |
| ELECTRIC METER BOX | SUB SURFACE DRAIN |
| GAS MARKER SIGN | TEMPORARY BENCH MARK |
| GUY WIRE | TEST HOLE |
| HOSE BIB | TELEPHONE MARKER SIGN |
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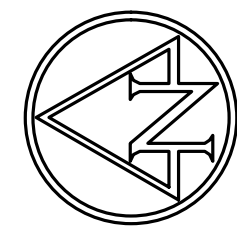
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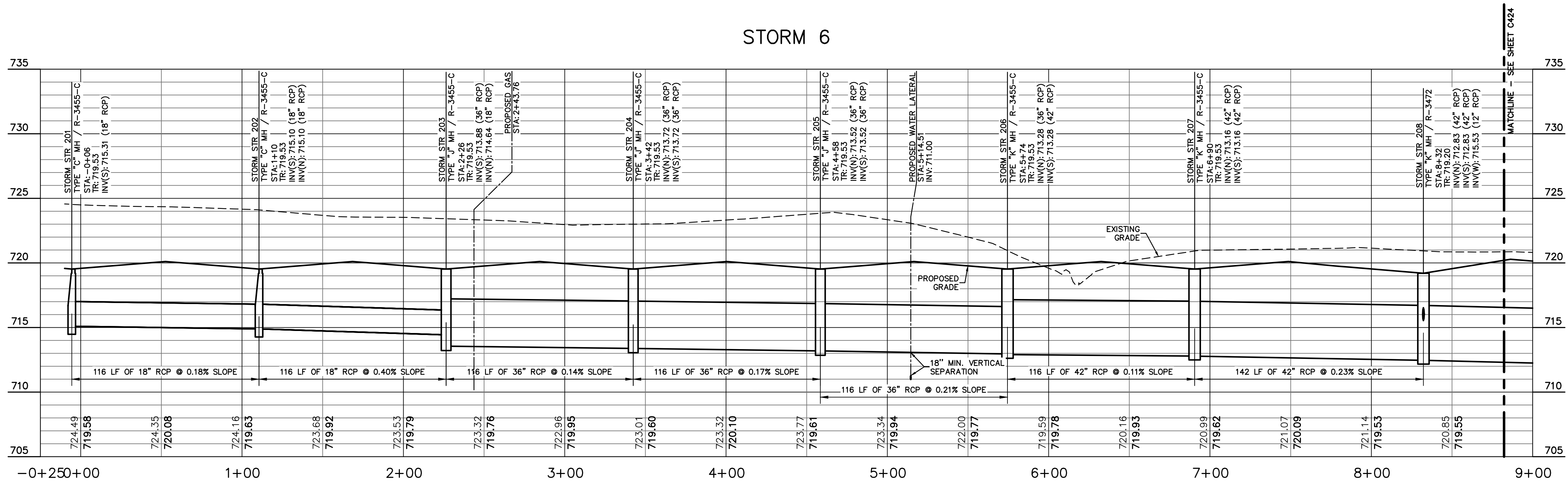
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ELEV = 724.83



SCALE: HORIZ. 1"=40'
VERT. 1"=5'

STORM 6



UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
GAS	VECTREN	JON EASTHAM	(765) 287-2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
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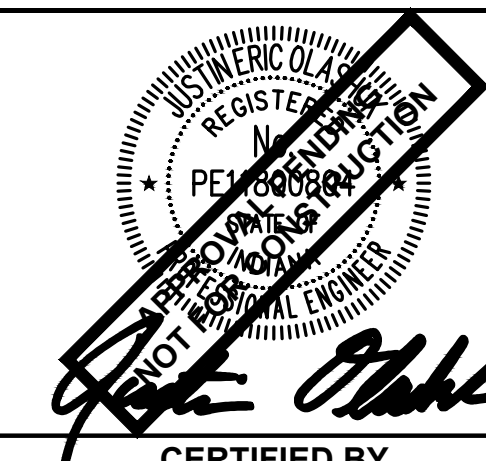


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ISSUANCE INDEX

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REVISION SCHEDULE

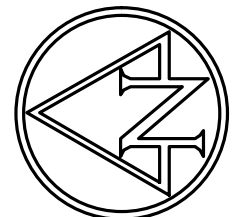
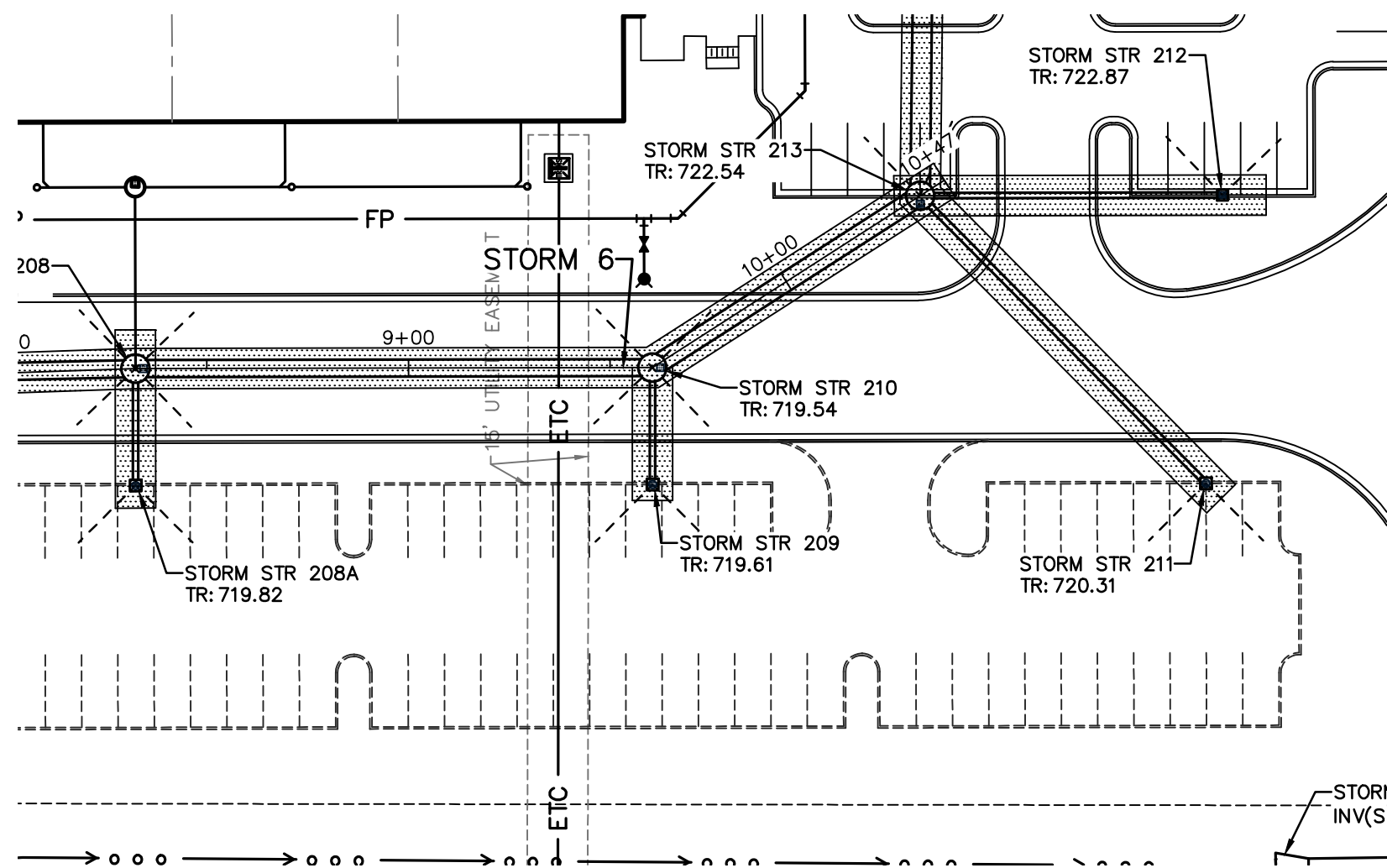
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Project Number 2019.02798

STORM SEWER PLAN AND PROFILE

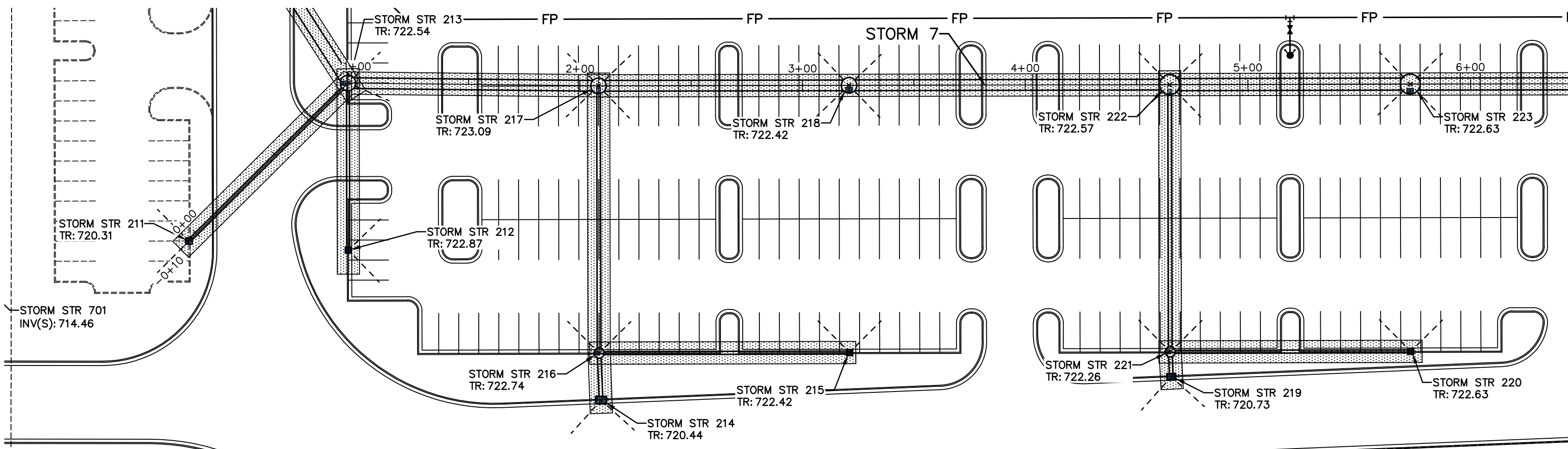
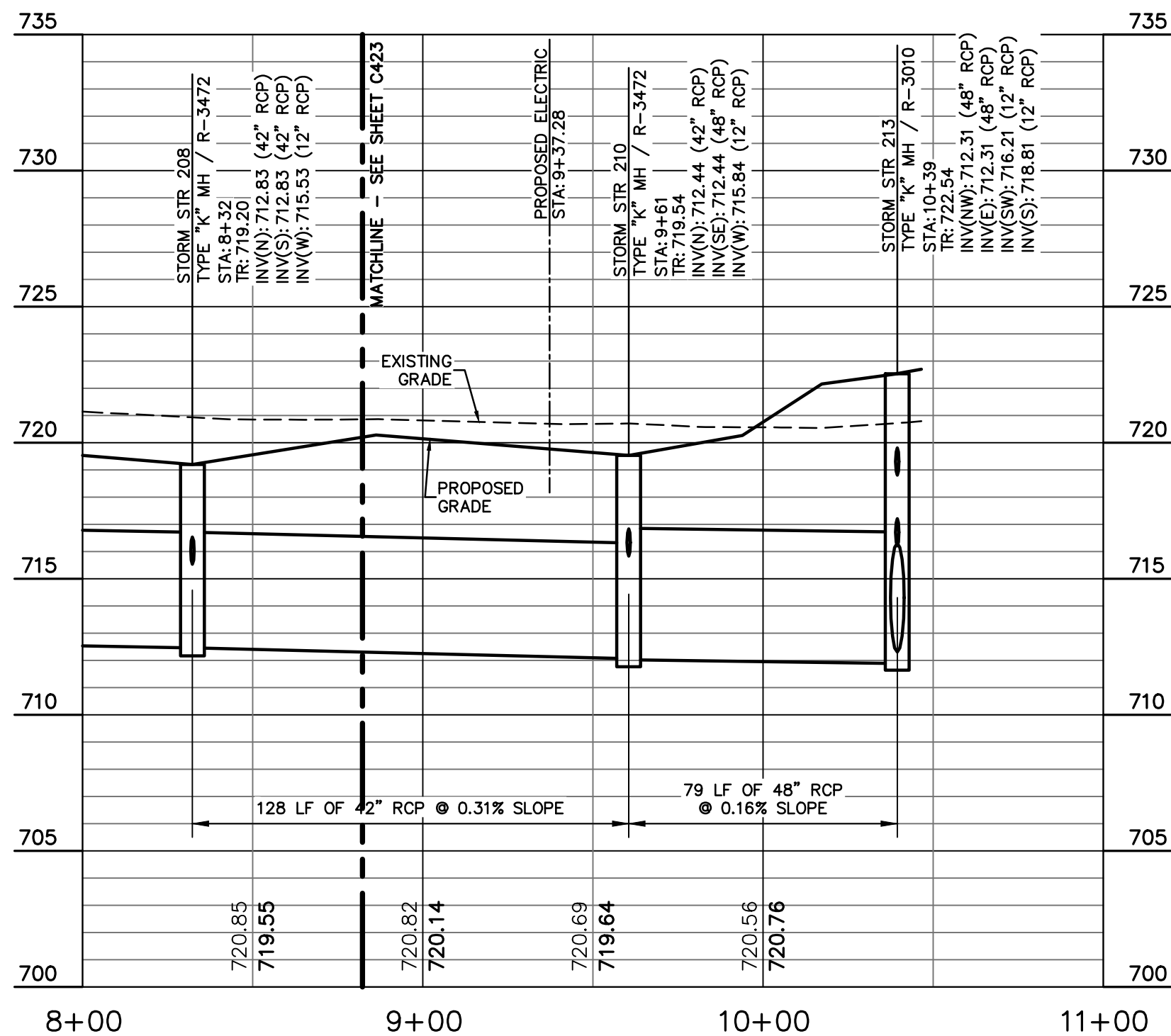
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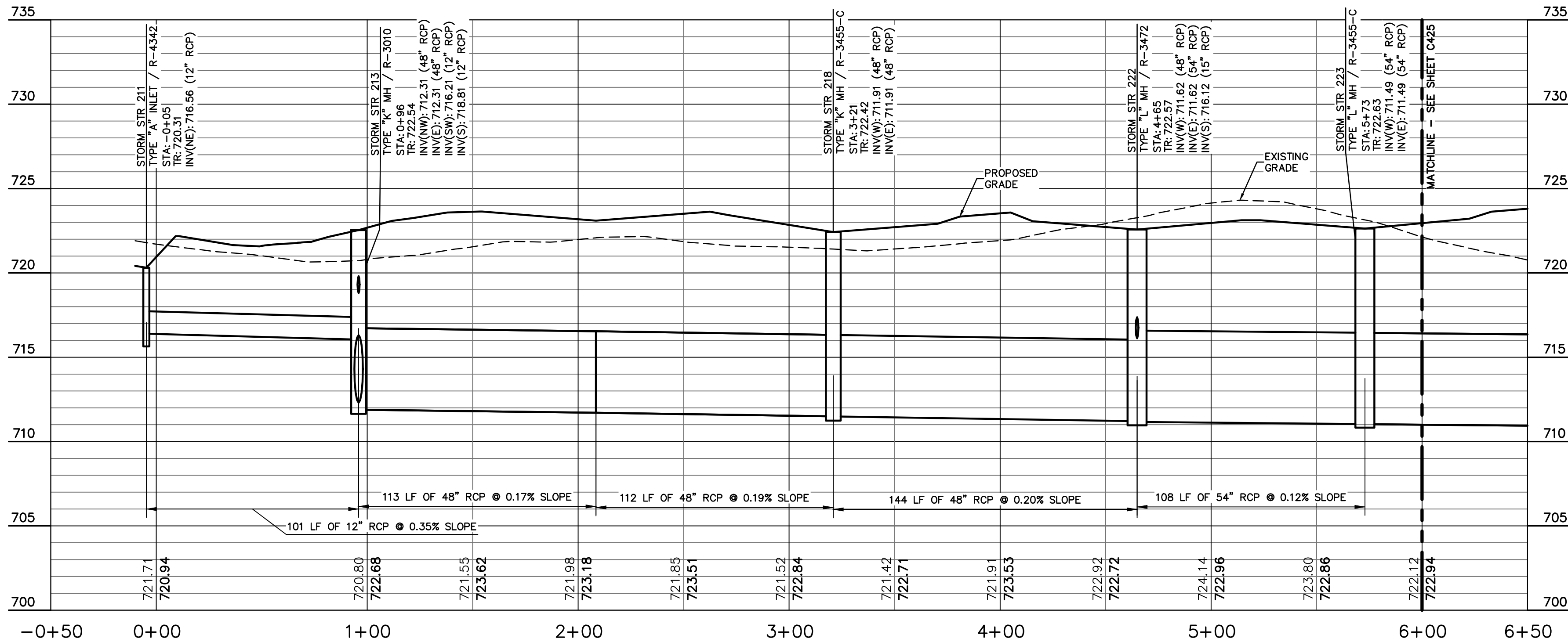
SCALE: HORZ. 1"=40'
VERT. 1"=5'

STORM 6



SCALE: HORZ. 1"=40'
VERT. 1"=5'

STORM 7



EXISTING LEGEND

- | | |
|-----------------------|-----------------------|
| BEEHIVE INLET | STAND PIPE |
| COMBINATION POLE | STUMP |
| ELECTRIC METER BOX | SUB SURFACE DRAIN |
| GAS MARKER SIGN | TEMPORARY BENCH MARK |
| GUY WIRE | TEST HOLE |
| HOSE BIB | TELEPHONE MARKER SIGN |
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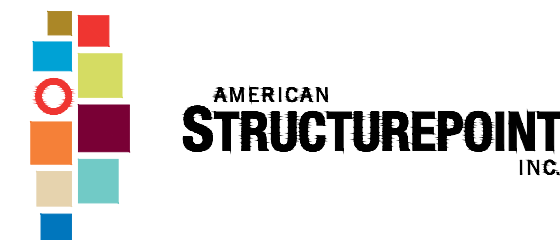
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ISSUANCE INDEX

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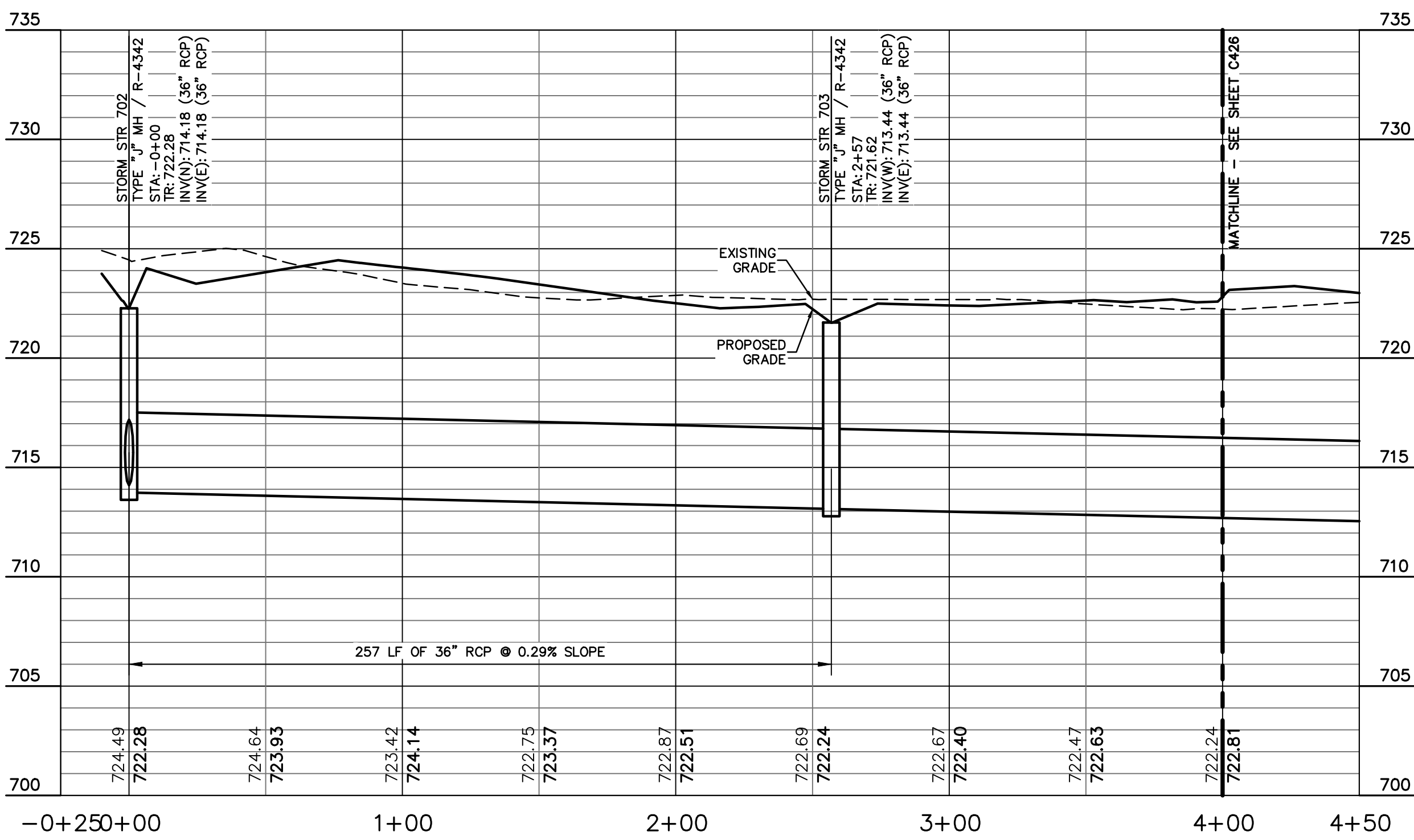
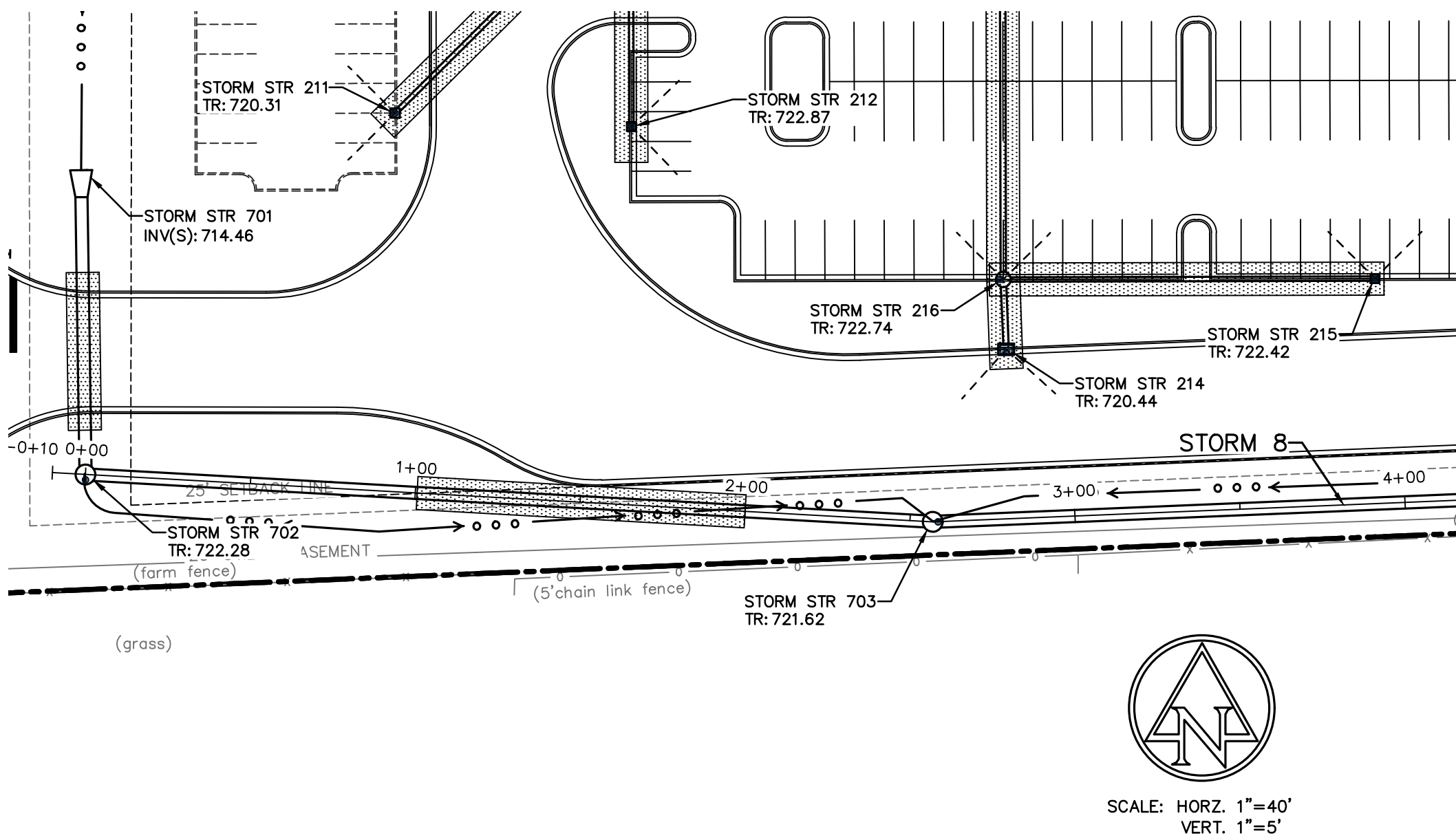
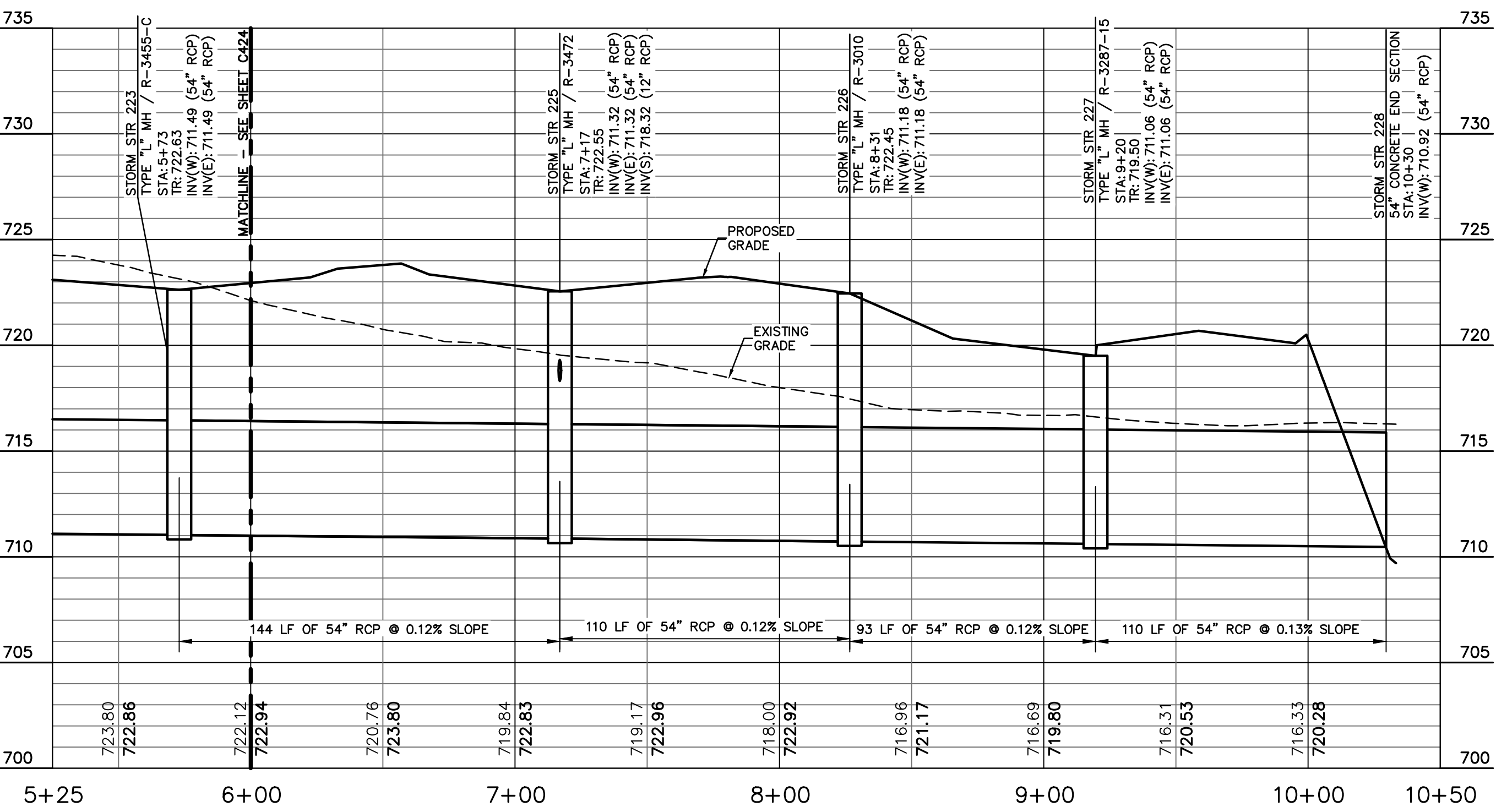
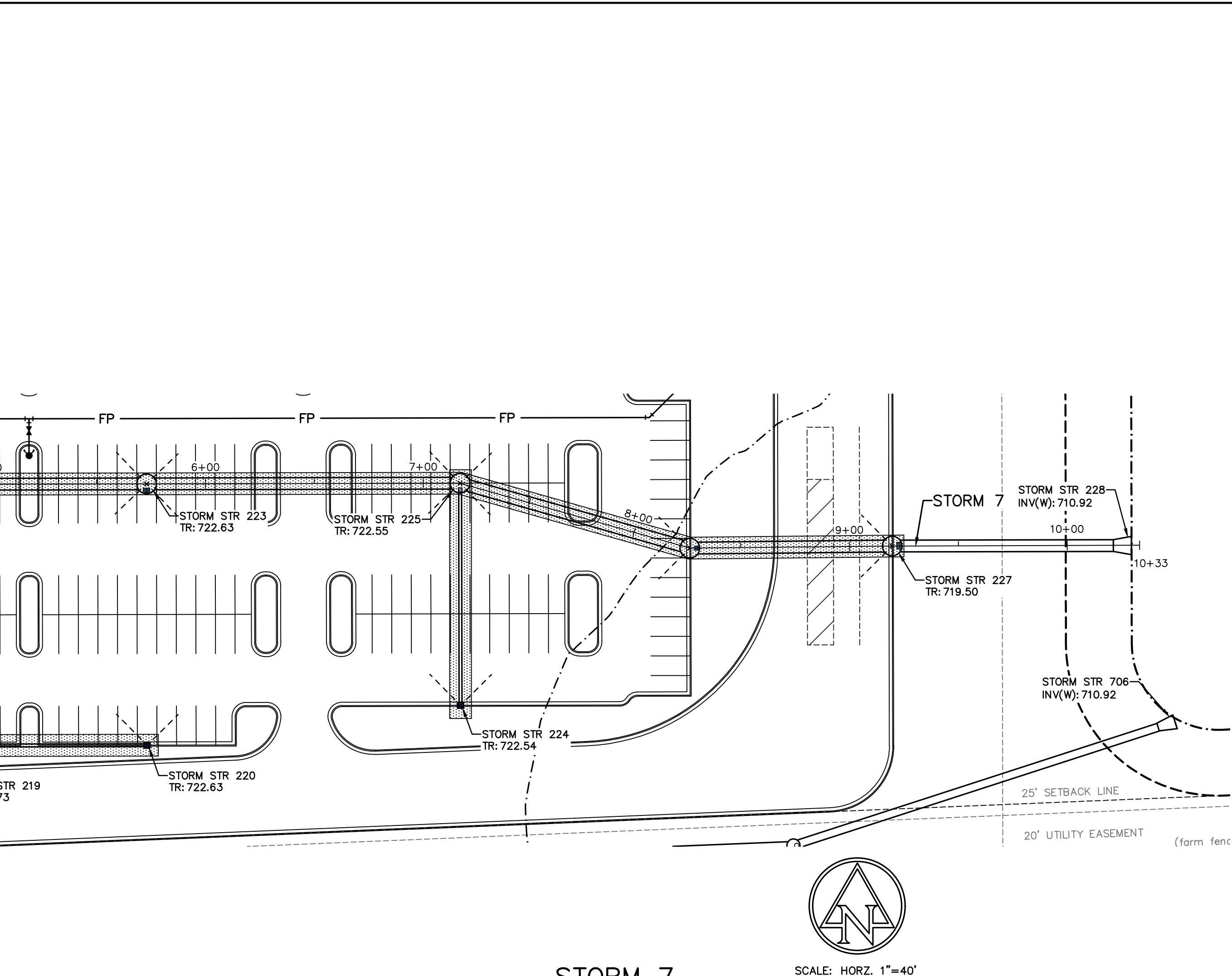
NO.	DESCRIPTION	DATE

Project Number 2019.02798

STORM SEWER PLAN
AND PROFILE

C424

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DRAWN BY: JLR/PP
EDIT DATE: 3/10/2021
EDITED BY: JLR/PP



EXISTING LEGEND

- | | |
|-----------------------|-----------------------|
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| COMBINATION POLE | STUMP |
| ELECTRIC METER BOX | SUB SURFACE DRAIN |
| GAS MARKER SIGN | TEMPORARY BENCH MARK |
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| MAILBOX | TRANSFORMER |
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GRANULAR BACKFILL REQUIRED

STORM 8

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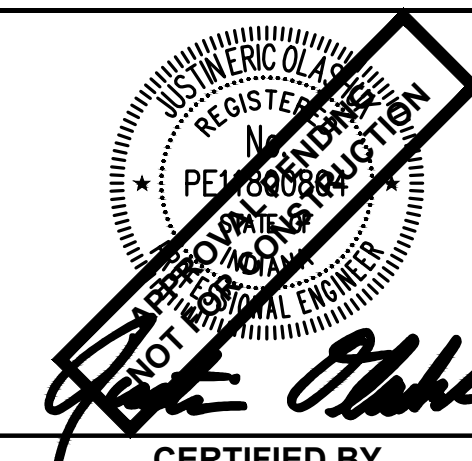


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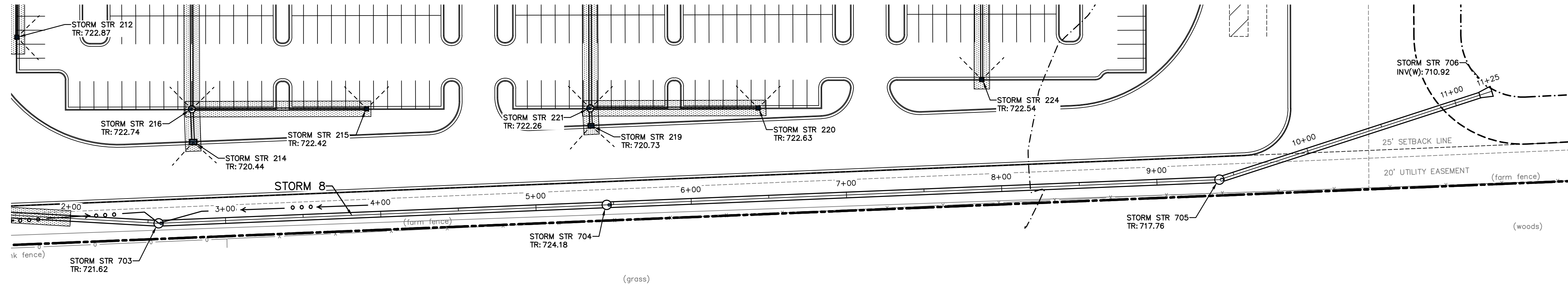
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STORM SEWER PLAN
AND PROFILE

C425

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EDIT DATE: 3/10/2021
EDITED BY: MIRVING



EXISTING LEGEND

- | | |
|-------------------------|-------------------------|
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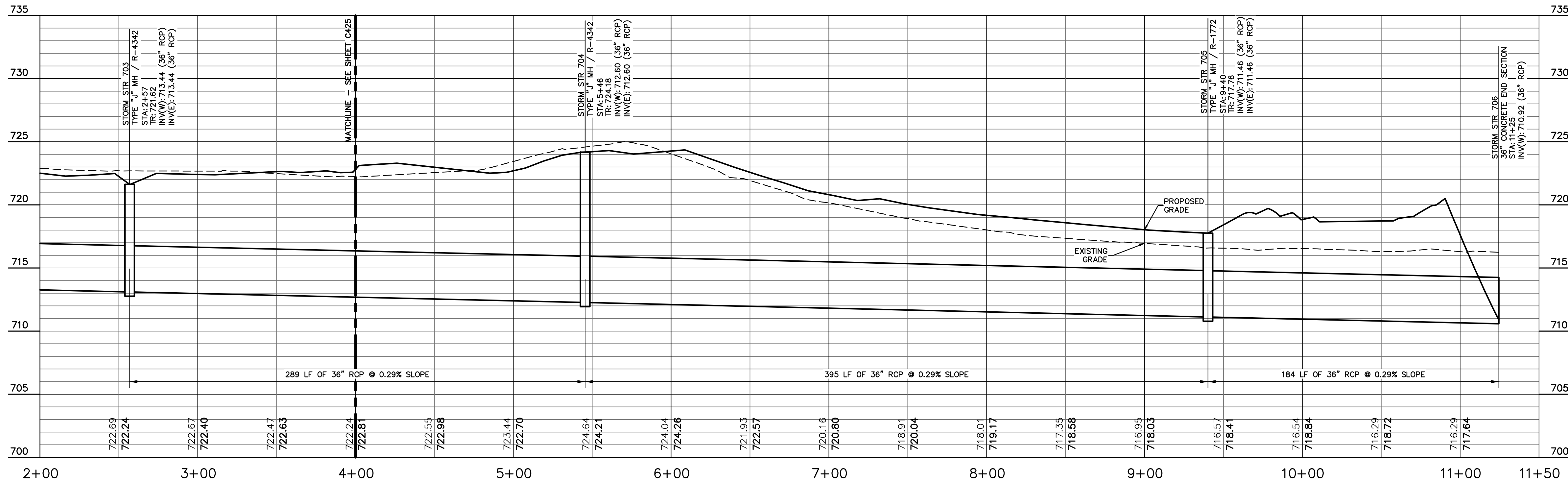
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VERT. 1"=5'

STORM 8



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



GDI CONSTRUCTION

9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

317.567.6100

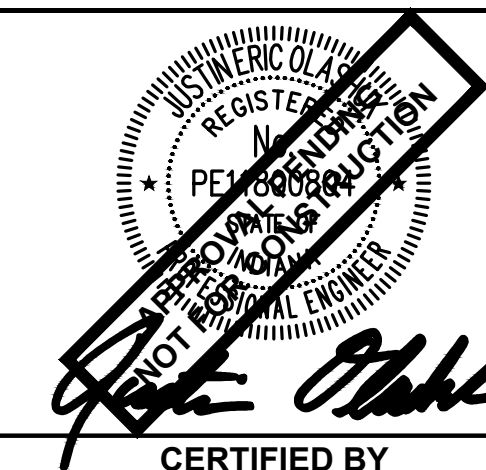


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I-65 SOUTH LOGISTICS CENTER LOT 1

81/89 Forest Road
Franklin, Indiana



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ISSUANCE INDEX

DATE:	04/07/2021
PROJECT PHASE:	CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

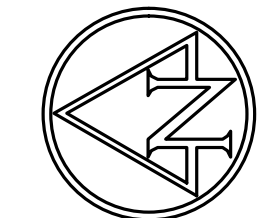
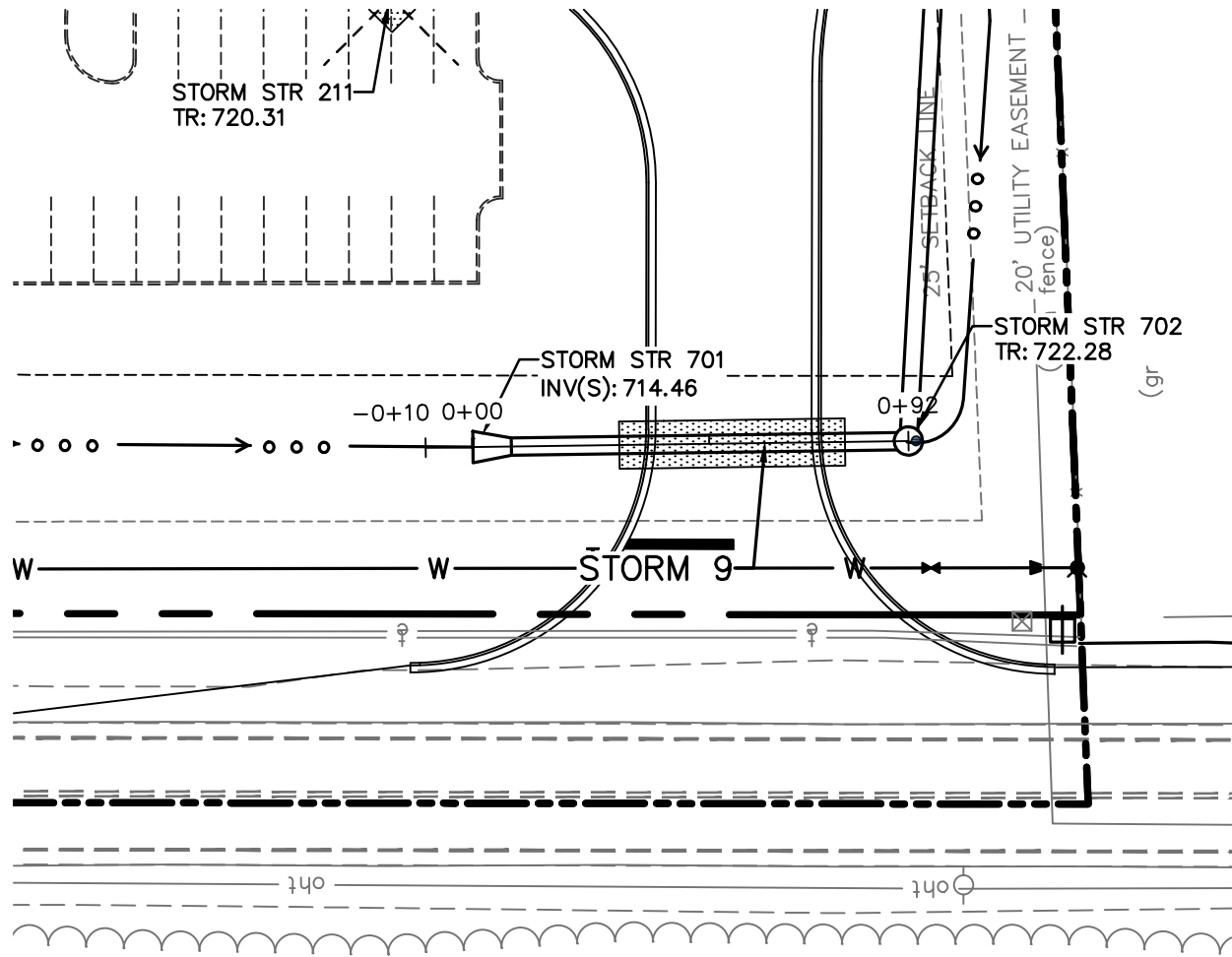
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Project Number 2019.02798

STORM SEWER PLAN AND PROFILE

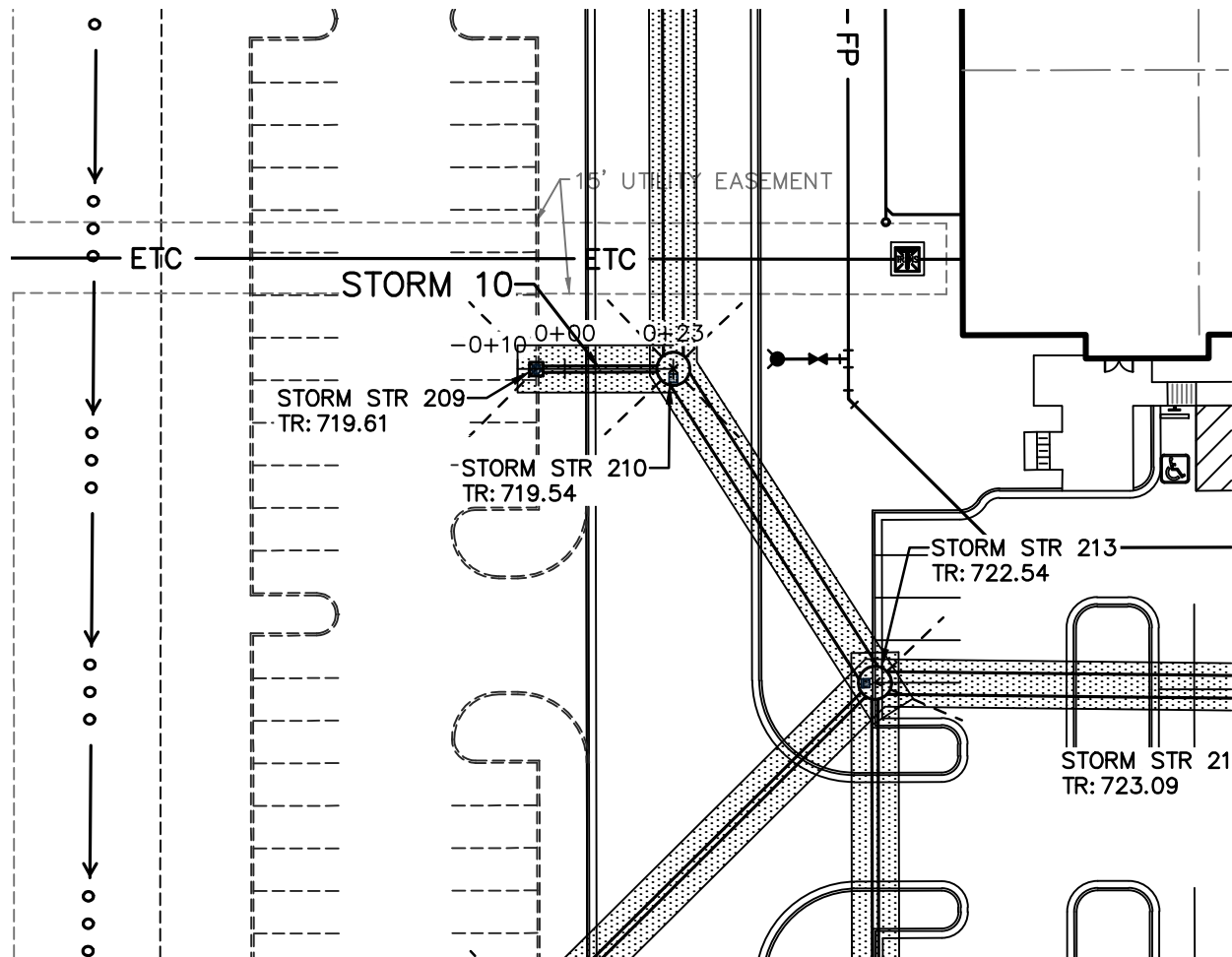
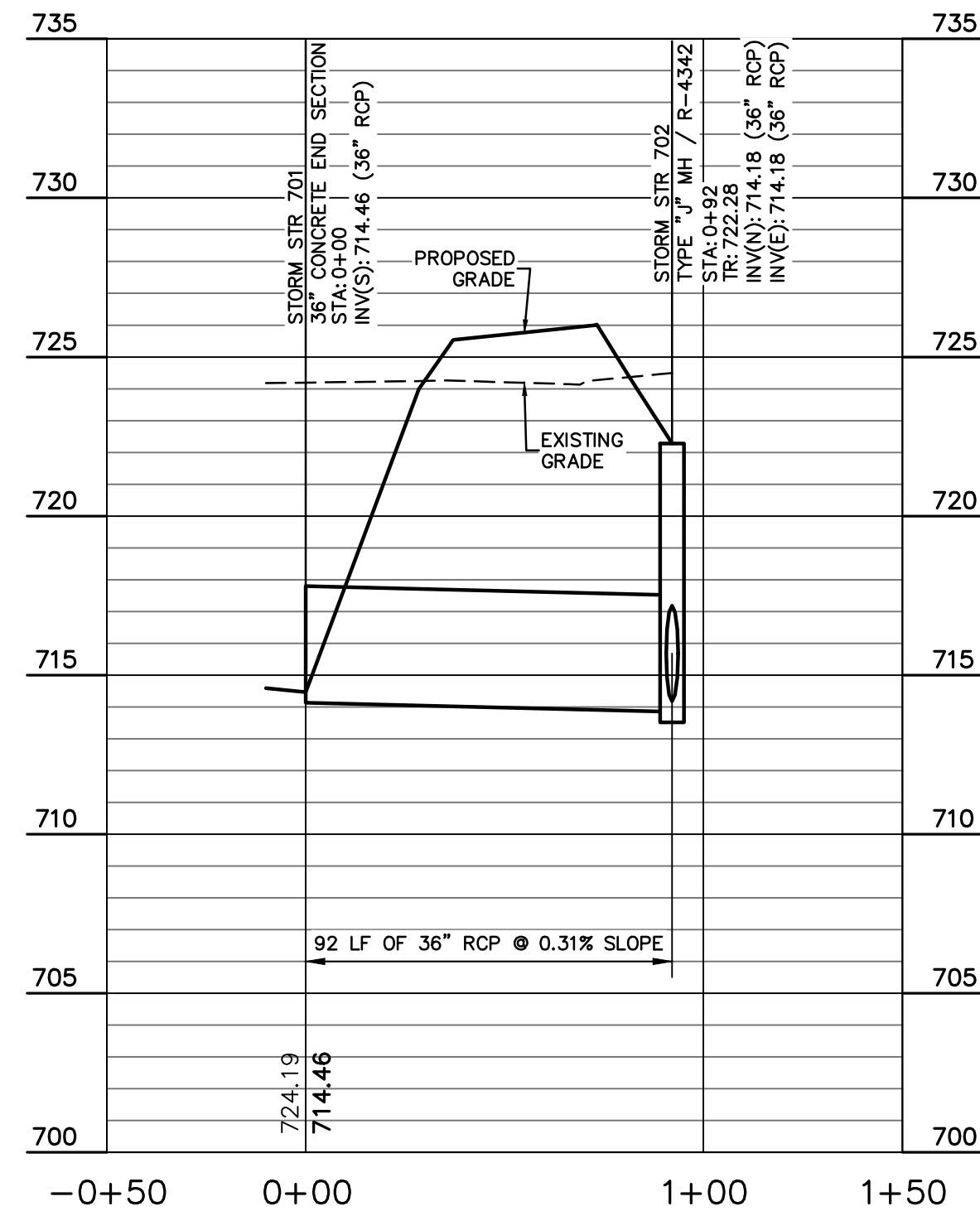
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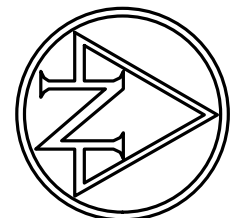
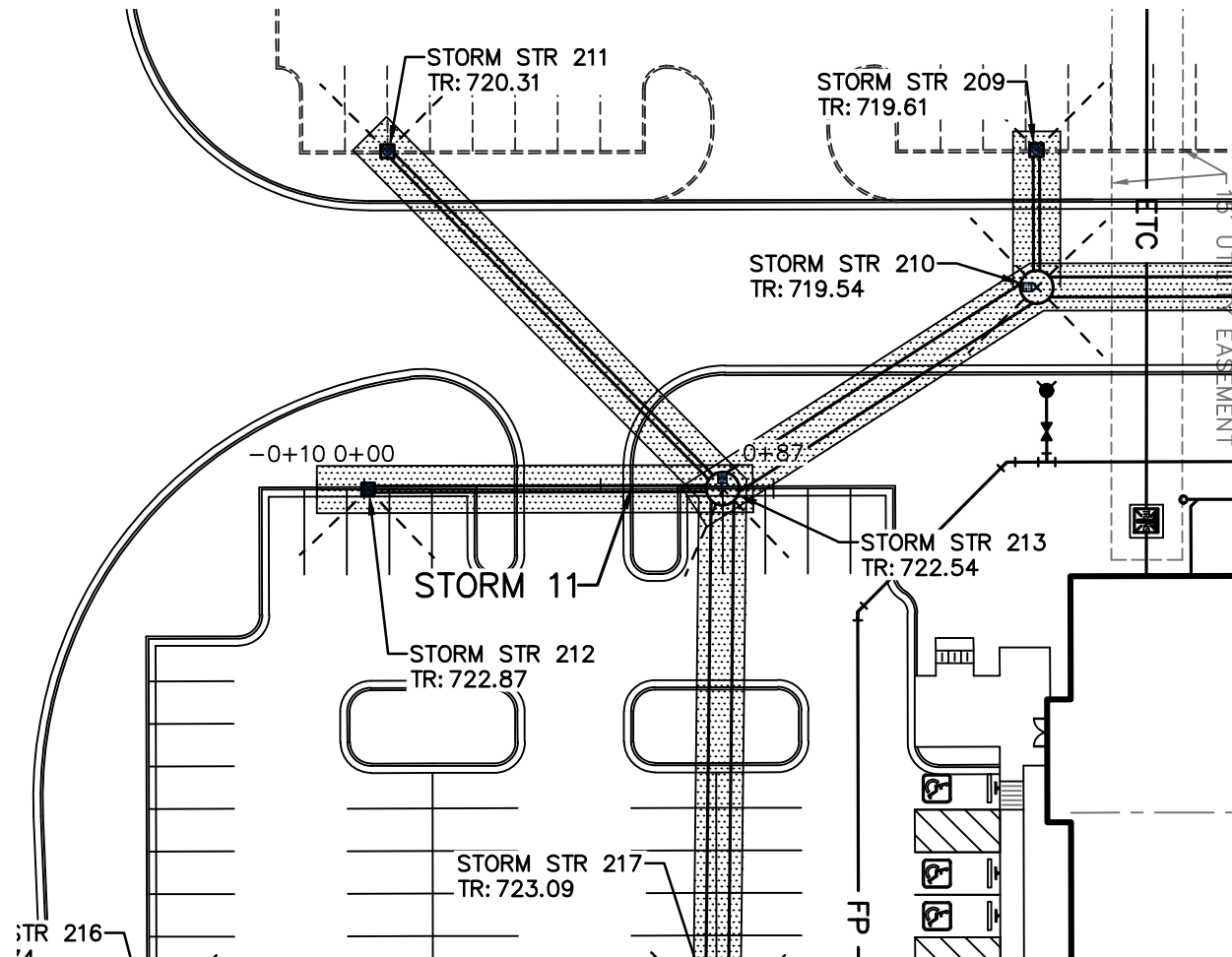
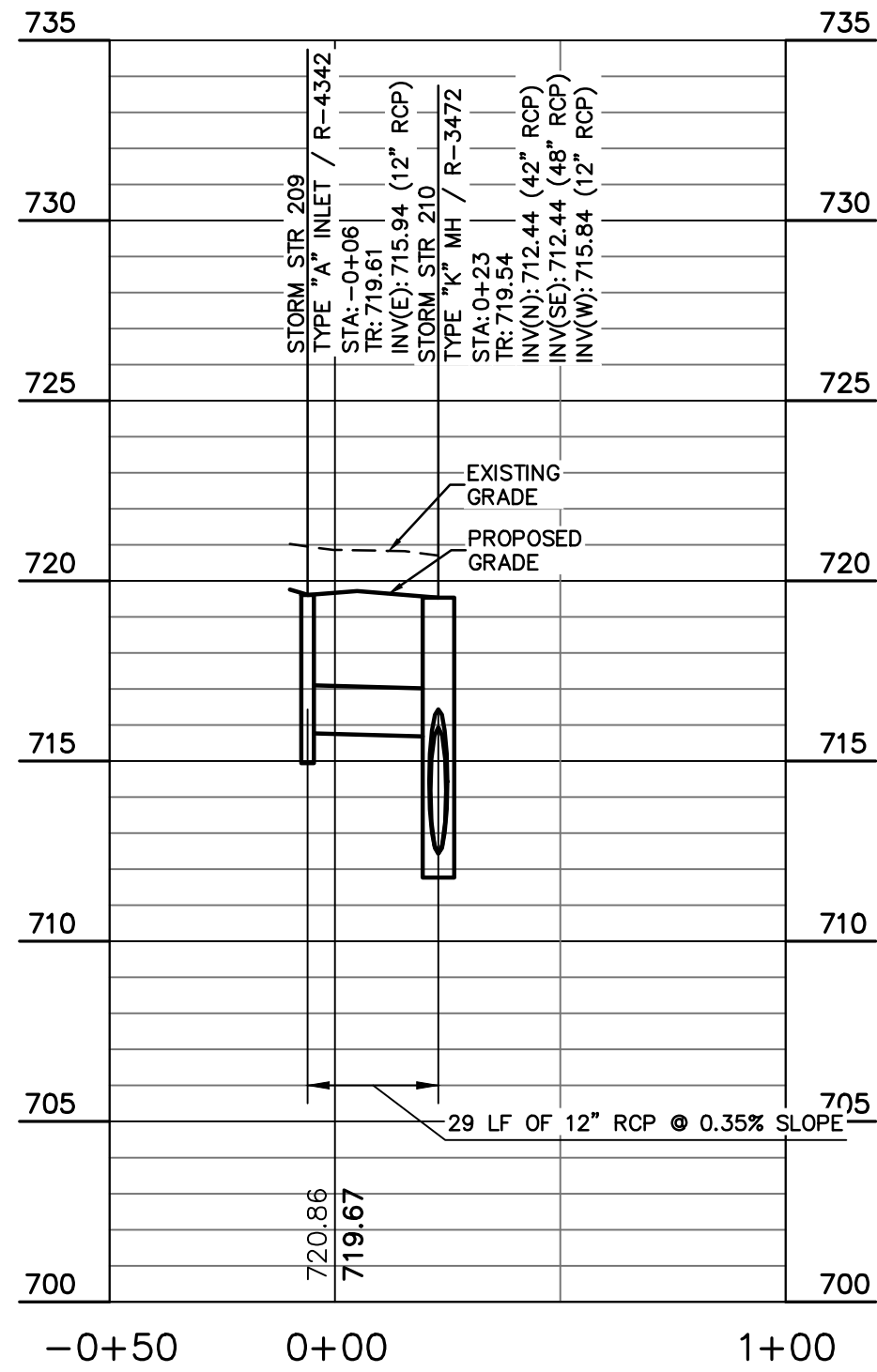
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VERT. 1"=5'

STORM 9



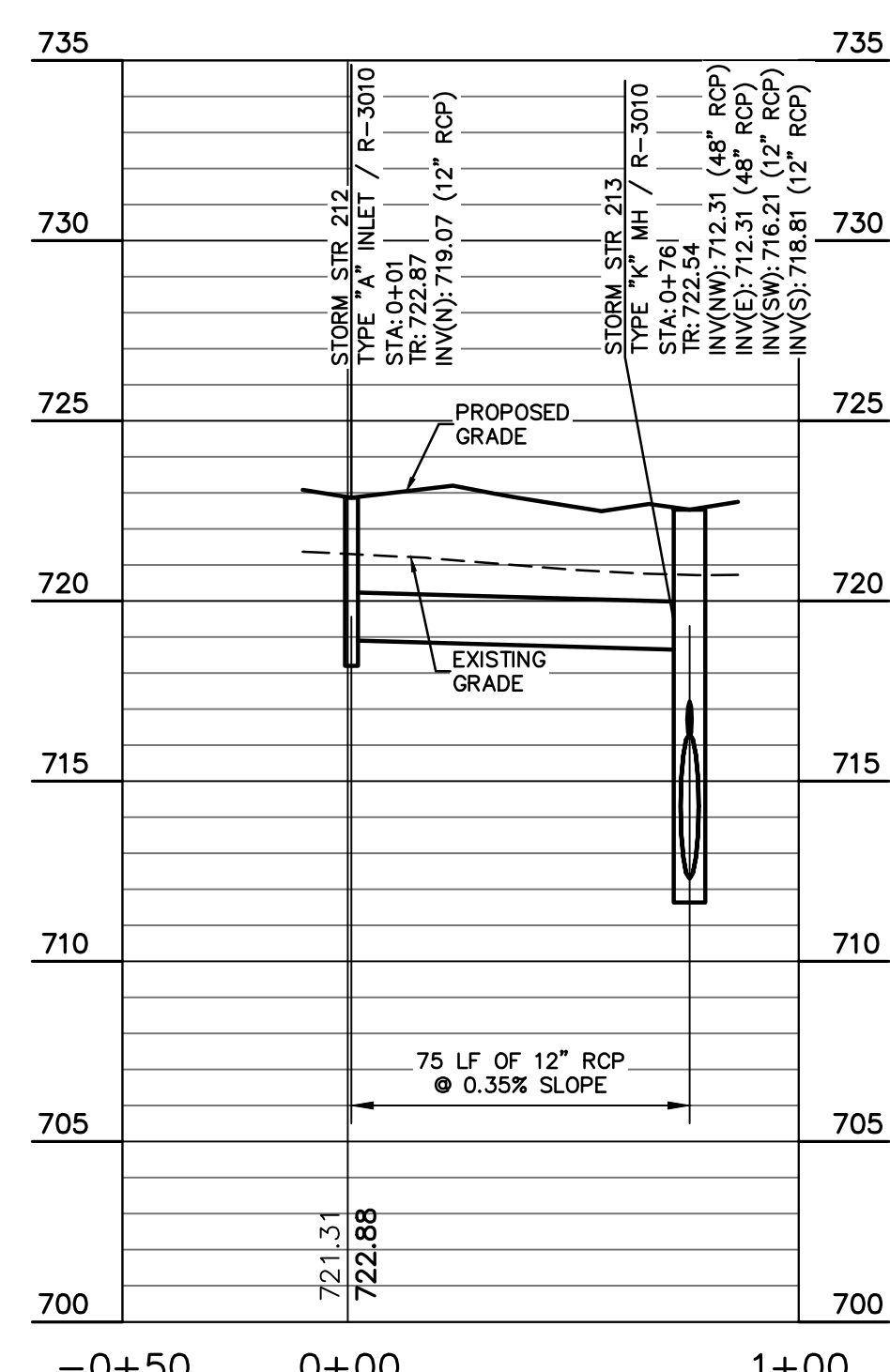
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VERT. 1"=5'

STORM 10



SCALE: HORZ. 1"=40'
VERT. 1"=5'

STORM 11



UTILITY CONTACTS			
UTILITY	COMPANY	CONTACT	PHONE NO.
COMMUNICATIONS	CENTURYLINK (CTLCL)	BRUCE EMERICK	(574) 926-1247
ELECTRIC	JOHNSON COUNTY REMC	KEVIN SHELLEY	(317) 736-6174
GAS	VECTREN	JON EASTHAM	(765) 287-2119
SANITARY SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
STORM SEWER	CITY OF FRANKLIN, DPW	SALLY BROWN	(317) 736-3640
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CALL TOLL FREE
 "811" OR 1-800-382-5544
 - INDIANA UNDERGROUND -

EXISTING LEGEND

- | | |
|-----------------------|-----------------------|
| BEEHIVE INLET | STAND PIPE |
| COMBINATION POLE | STUMP |
| ELECTRIC METER BOX | SUB SURFACE DRAIN |
| GAS MARKER SIGN | TEMPORARY BENCH MARK |
| GUY WIRE | TEST HOLE |
| HOSE BIB | TELEPHONE MARKER SIGN |
| INLET | TELEPHONE PEDESTAL |
| MAILBOX | TRANSFORMER |
| PINE | TREE |
| POST | VENT |
| POWER POLE | WELL |
| RIGHT OF WAY MONUMENT | |
| SIGN | |

BENCHMARK DATA

(NAVD '88)

HELD OPUS SOLUTION 18-83940150 FOR BASE #1000 FOR INGCS JOHNSON COUNTY, IN

ASI TBM #32
 CHISELED "X" ON SW BOLT OF FIRE HYDRANT EAST SIDE OF BARTRAM PARKWAY; ±300' SOUTH OF SR 44.
 ELEV = 731.40

ASI TBM #50
 MAG SPIKE SET IN WEST SIDE UTILITY POLE AT SW CORNER OF SR 44 AND COUNTY ROAD 525 E.
 ELEV = 725.39

ASI TBM #51
 MAG SPIKE SET IN SOUTH SIDE UTILITY POLE #40792 SOUTH SIDE OF SR 44 AND ±400' WEST OF MAILBOX #5557.
 ELEV = 721.56

ASI TBM #52
 CHISELED SQUARE ON WEST CORNER OF NW END OF CONCRETE HEADWALL OF BOX CULVERT UNDER SR 44 LOCATED ±600' SOUTHWEST OF COUNTY ROAD 600 E.
 ELEV = 720.38

ASI TBM #53
 MAG SPIKE SET IN WEST SIDE UTILITY POLE #06135 ON WEST SIDE OF COUNTY ROAD 525 E AND ±900' SOUTH OF SR 44.
 ELEV = 735.00

ASI TBM #54
 MAG SPIKE SET IN NW SIDE UTILITY POLE #12P1002 ON WEST SIDE OF COUNTY ROAD 525 E AND ±200' NORTH OF SOUTH PROPERTY LINE.
 ELEV = 724.93

- STORM SEWER NOTES:**
- ALL CASTINGS SHALL BE LABELED "DUMP NO WASTE - DRAINS TO WATERWAY"
 - MANNINGS COEFFICIENT
 $n = 0.012$
 - 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.

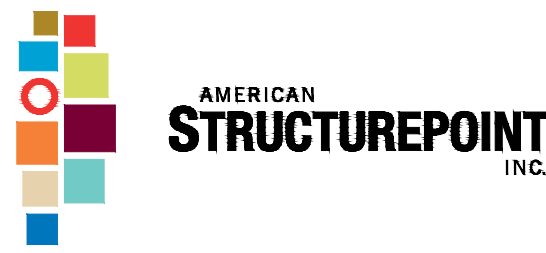
GRANULAR BACKFILL REQUIRED



GDI CONSTRUCTION

9775 Crosspoint Blvd
Suite 105
Indianapolis, IN 46256

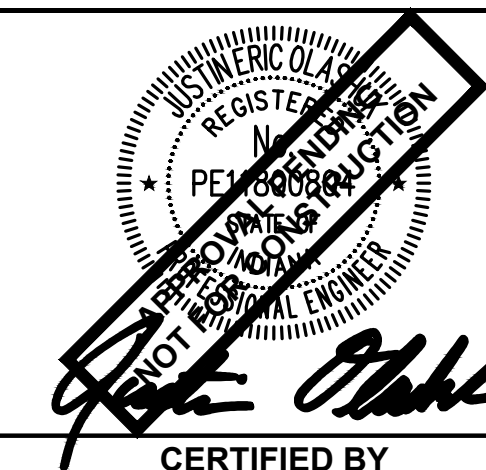
317.567.6100



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DATE:	04/07/2021
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STORM SEWER PLAN AND PROFILE

C427

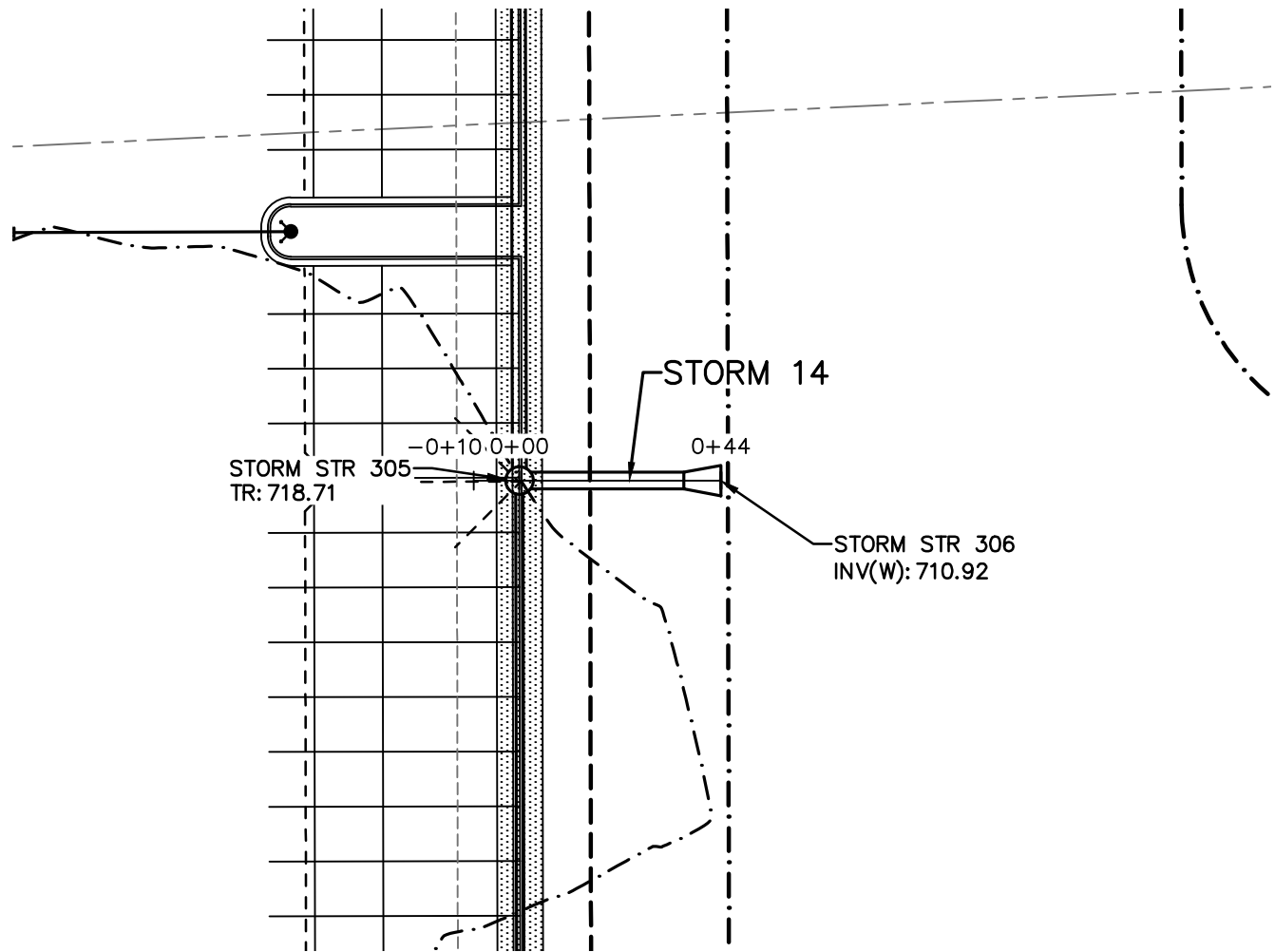


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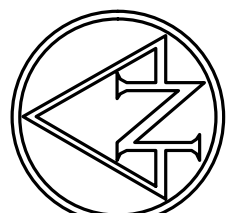
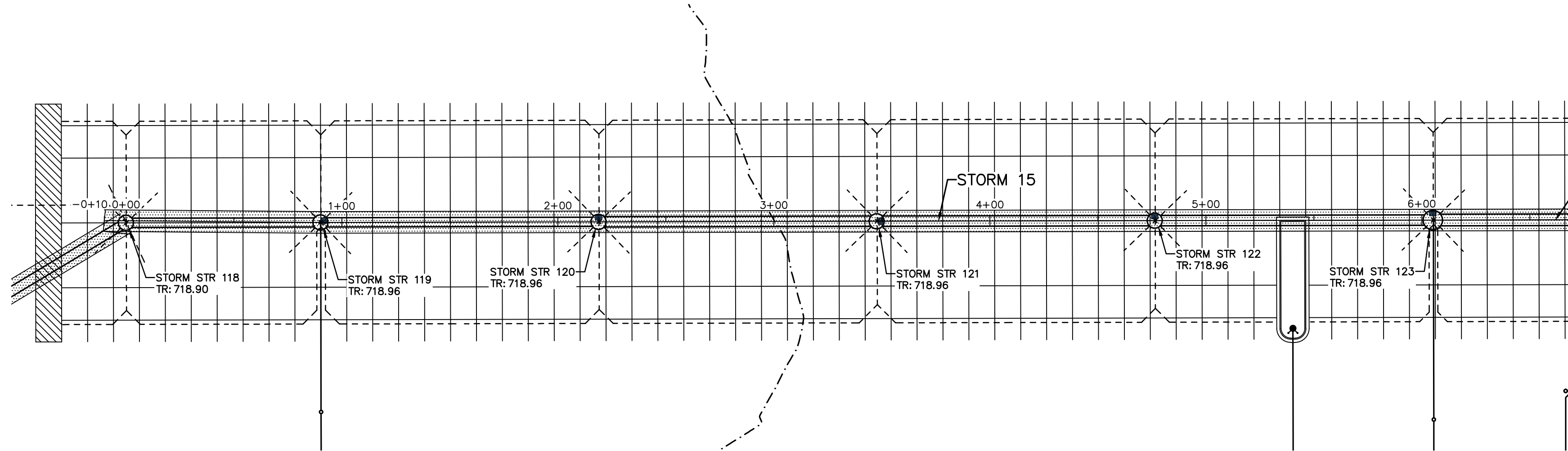
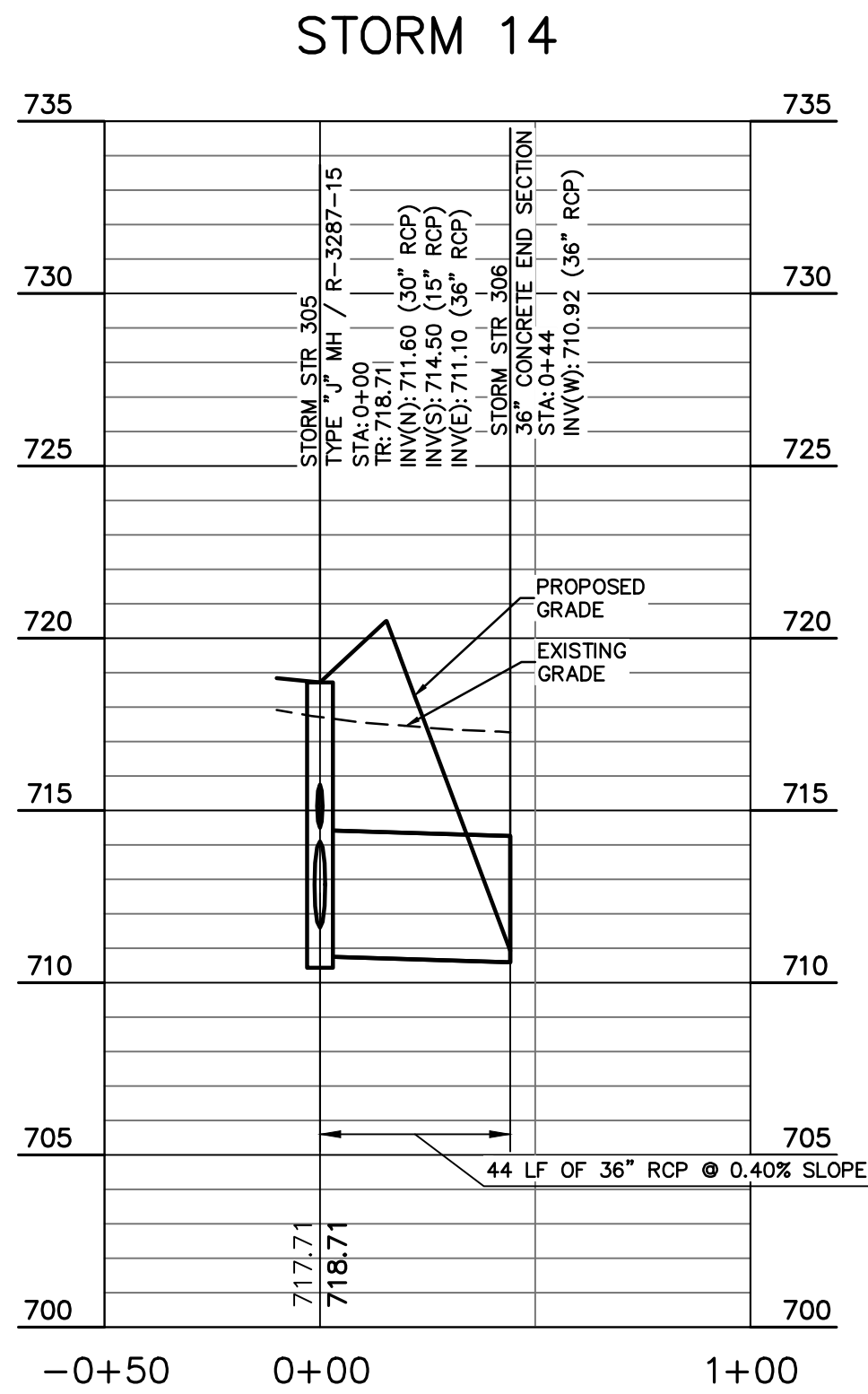


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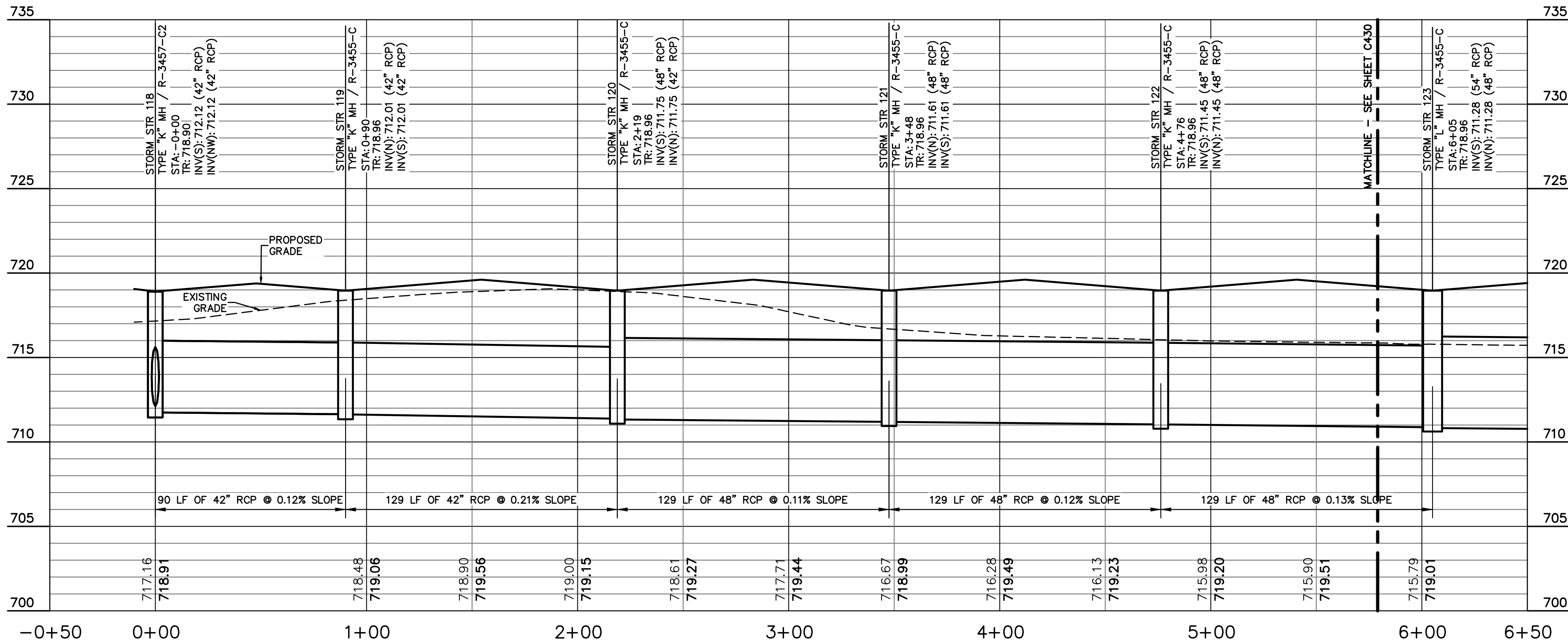


SCALE: HORZ. 1"=40'
VERT. 1"=5'



SCALE: HORZ. 1"=40'
VERT. 1"=5'

STORM 15



EXISTING LEGEND

- BEEHIVE INLET
 COMBINATION POLE
 ELECTRIC METER BOX
 GAS MARKER SIGN
 GUY WIRE
 HOSE BIB
 INLET
 MAILBOX
 PINE
 POST
 POWER POLE
 RIGHT OF WAY MONUMENT
 SIGN
- STAND PIPE
 STUMP
 SUB SURFACE DRAIN
 TEMPORARY BENCH MARK
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STORM SEWER PLAN
AND PROFILE

C429