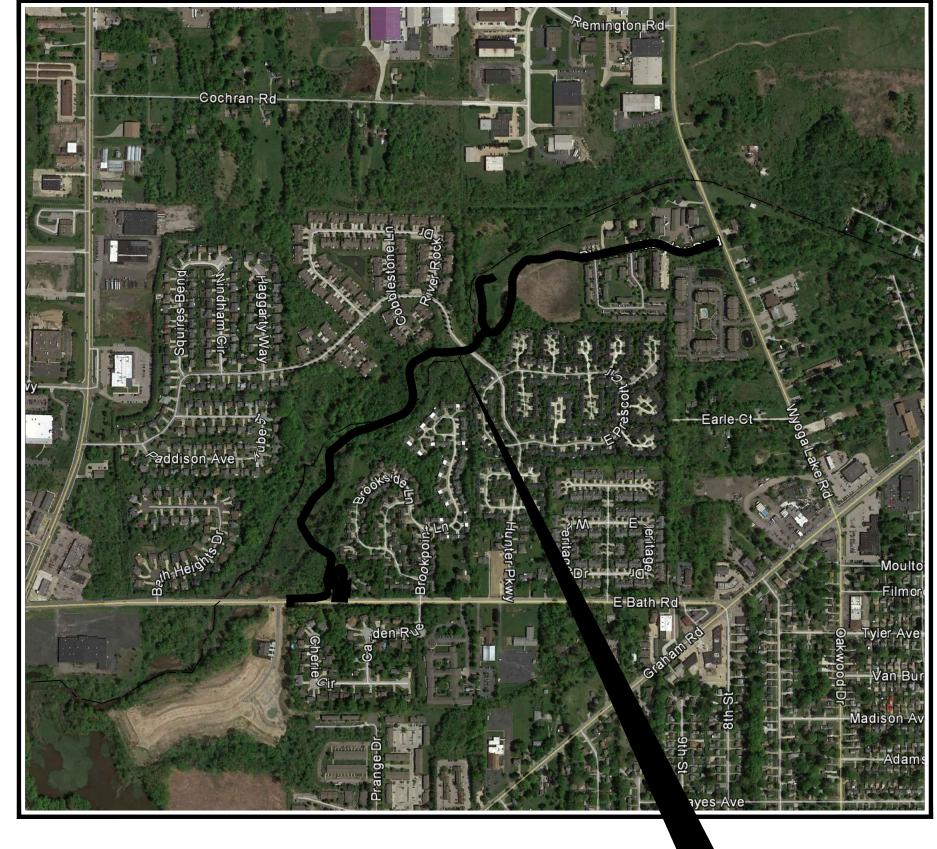
SUMMIT COUNTY, OHIO CITY OF CUYAHOGA FALLS PROJECT 14-00436-060 ISSUED: FEBRUARY 19, 2021

SITE PLAN LEGEND

EXISTING	PROPOSED	
		CENTERLINE/BASELINE CONSTRUCTION
		PROPERTY LINE
Ex R/W	——————————————————————————————————————	RIGHT OF WAY
		EASEMENT
		SWALE
	————1000————	CONTOUR
<i>X</i> " <i>STM</i>	st <u>X" STM</u> st	STORM SEWER
<u>X"</u> S <u>AN</u>	——————————————————————————————————————	SANITARY SEWER
X" WTR W	w <u>X" WTR</u>	WATER LINE
——————————————————————————————————————	w	WATER SERVICE
GG X" GAS	G X" GAS	GAS LINE
———— UGE ————	——— E———	ELECTRIC LINE, UNDERGROUND
——————————————————————————————————————	T	TELEPHONE LINE, UNDERGROUND
FOC	——— FOC ————	FIBER OPTIC LINE, UNDERGROUND
CATV		CABLE LINE, UNDERGROUND
— — OHE— — —		OVERHEAD ELECTRIC
	UDUDUD	UNDERDRAIN
		CATCH BASIN, MANHOLE MANHOLE ADJUSTED TO GRADE
Ty v	▼ * !	HYDRANT, HYDRANT ASSEMBLY
$WV\bowtie GV\bowtie$	WV ×	VALVE, WV=WATER VALVE GV=GAS VALVE
E G W		METER, E=ELECTRIC, G=GAS, W=WATER
		ELECTRIC CABINET, PULL BOX, PEDESTAL, MANHOLE
		TELEPHONE MANHOLE, UTILITY MARKER
$ \leftarrow \phi \phi \phi \phi \phi$		POWER POLE, TELEPHONE POLE, COMBINATION POLE, LIGHT POLE
IPFO	IPS ●	IRON PIN/PIPE FOUND, IRON PIN SET
MON 🗆	MON	MONUMENT BOX
- 0 - 0 0 -		SIGN
<i>MB</i>		MAILBOX
${\scriptstyle \oint^{\textstyle \sim}}\; \diamondsuit$		FLAG POLE, DECORATIVE/YARD LIGHT
		TREE, SHRUB LINE, TREE LIMBED AND ROOT PRUNED
		TREE REMOVED
		EXISTING WETLAND





LOCATION MAP

PROJECT LOCATION 221 E BATH ROAD, CUYAHOGA FALLS

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THESE PLAN BID DOCUMENTS SHALL GOVERN THIS IMPROVEMENT. FOR PURPOSES OF THIS PLAN, REFERENCES TO DIRECTOR OR ENGINEER SHALL BE CONSTRUED TO MEAN THE CITY ENGINEER AND/OR HIS REPRESENTATIVES.



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APPROVALS: CITY OF CUYAHOGA FALLS	
Donald S. Walters	3/9/2021
Tony V. Demasi	Date 3/9/2021
CITY ENGINEER	Date

PLANS PREPARED AND RECOMMENDED BY:



STATE OF OHIO

450 GRANT STREET 806 LITERARY ROAD AKRON, OH 44311 2ND FLOOR, SUITE 206 CLEVELAND, OH 44113 F: 330.375.1590 WWW.ENVDESIGNGROUP.COM

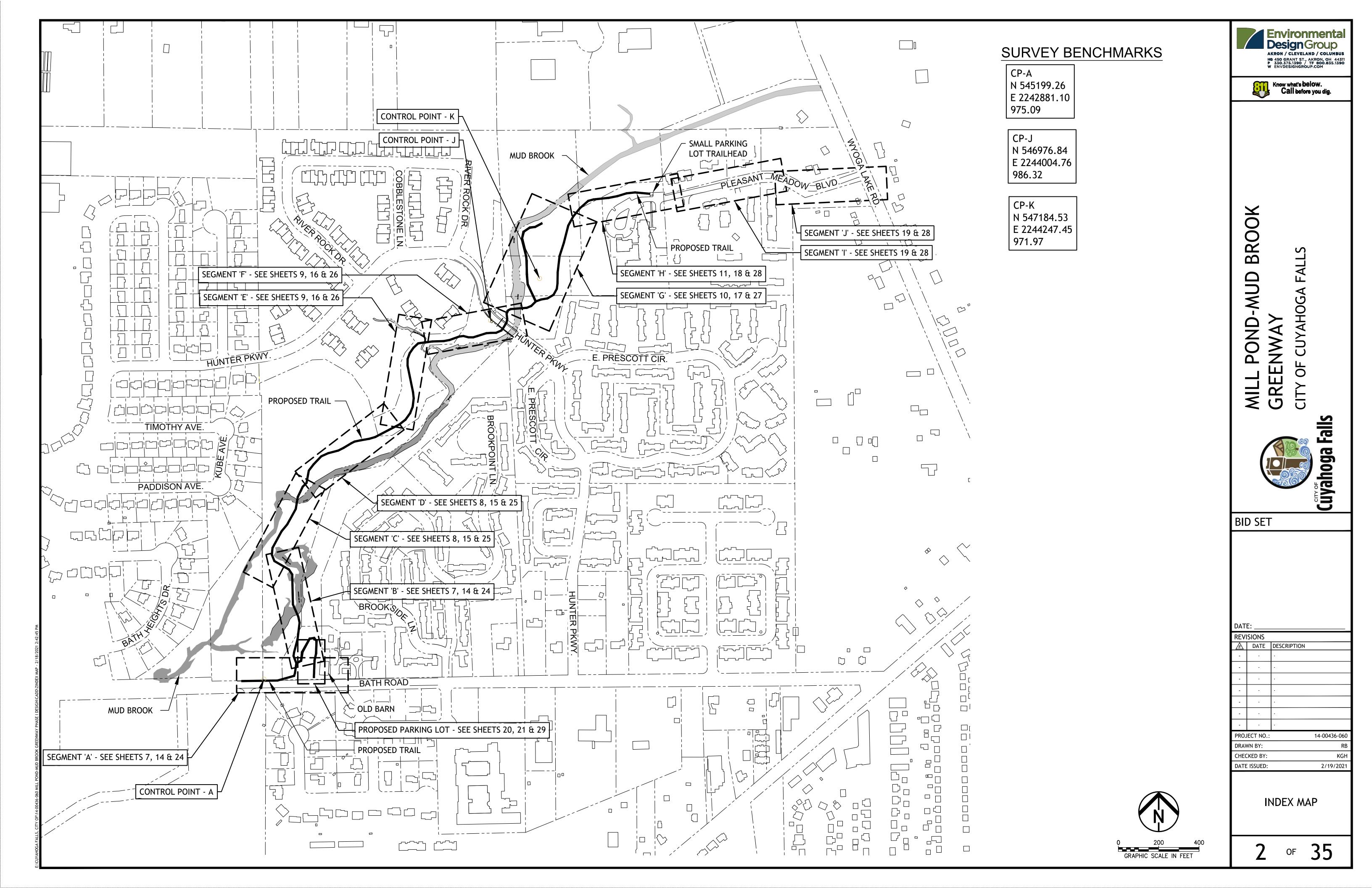
BY: Katherie Alg Holmok DATE: 2/19/2021 KATHERINE GLUNTZ HOLMOK REGISTERED LANDSCAPE ARCHITECT NO. 1045



REVISED:

SET NO.

PROJ. NUMBER	14-00436-060		SHEET
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ALL ITEM NUMBERS REFER TO THE 2019 STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. ALL EQUIPMENT, MATERIAL AND WORKMANSHIP SHALL BE PERFORMED ACCORDING TO THE SPECIFICATIONS AND THE REFERENCED OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS NOTED ON THE TITLE SHEET.

<u>GOVERNING DOCUMENTS</u>

THE PROJECT MANUAL AND CONTRACT DRAWINGS SHALL GOVERN THIS IMPROVEMENT. WHERE REFERENCED, ODOT SPECIFICATIONS REFER TO THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIALS SPECIFICATIONS (2019 EDITION) AND SHALL GOVERN. FOR PURPOSES OF THESE PLANS, REFERENCES TO ENGINEER/OWNER SHALL BE CONSTRUED TO MEAN THE CITY OF CUYAHOGA FALLS AND/OR THEIR AUTHORIZED REPRESENTATIVES.

. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS, AND EXERCISE PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF ALL PERSONS, INCLUDING EMPLOYEES, AND PROPERTY.

2. CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AT ALL TIMES, PARTICULARLY WHEN WORKING NEAR OVERHEAD ELECTRICAL CROSSINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PAYING ALL FEES. SCHEDULING AND OBTAINING ALL INSPECTIONS. UNLESS NOTED ON THE PLANS OR SPECIFICATIONS THE CONTRACTOR IS ALSO RESPONSIBLE FOR SHOP DRAWING SUBMITTALS TO THE NECESSARY AGENCIES FOR PERMITS AND APPROVALS.

- 2. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN ROAD OPENING PERMITS FOR ANY WORK ALONG CITY STREETS. CONTACT THE CITY OF CUYAHOGA FALLS AT LEAST 2 WEEKS IN ADVANCE OF ANY WORK WITHIN THE LIMITS OF THE ROAD RIGHT-OF-WAY TO OBTAIN THE PERMITS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL TESTING. MATERIAL TESTING IS REQUIRED FOR ASPHALT, CONCRETE, AND AGGREGATES FOR TRENCH BEDDING AND BACKFILL. CONTRACTOR SHALL EMPLOY A CERTIFIED INDEPENDENT TESTING COMPANY. COPIES OF ALL REPORTS AND TEST RESULTS SHALL BE SUBMITTED TO THE CITY OF CUYAHOGA FALLS. PAYMENT FOR TESTING SHALL BE INCLUDED IN THE UNIT BID FOR RESPECTIVE MATERIALS.
- 4. THE CITY HAS PROCURED A FLOODPLAIN PERMIT FOR THIS WORK. THE CITY HAS APPLIED FOR AN NOI FOR THIS PROJECT FOR THE CONSTRUCTION CONTRACTOR TO PICK UP AND PAY FOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PERFORM ALL NOI INSTRUCTURE AND SWPP AS PER ENCLOSED PLANS AND NOTES.

ANY DEFECTS IN CONSTRUCTION, INCLUDING MATERIALS OR WORKMANSHIP, SHALL BE CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHODS PRIOR TO ACCEPTANCE BY THE OWNER. THE COST SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

- 2. ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR. THE COST OF SAME SHALL BE INCLUDED IN UNIT PRICES FOR THE VARIOUS RELATED ITEMS.
- ANY MATERIAL OR ITEM OF WORK, WHICH HAS NO SPECIFICATION, SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE CITY OF CUYAHOGA FALLS. COST SHALL BE INCLUDED IN UNIT PRICES FOR THE VARIOUS RELATED ITEMS.
- 4. ANY MODIFICATIONS TO THE WORK AS SHOWN ON THESE APPROVED PLANS SHALL HAVE PRIOR WRITTEN APPROVAL OF THE OWNER.
- WHERE CONFLICT ARISES BETWEEN ALL SPECIFICATIONS (PLAN BASED) INCLUDING CITY REQUIREMENTS, THE MORE RESTRICTIVE SPECIFICATION SHALL PREVAIL.

NORMAL WORKING HOURS ARE BETWEEN 7:00 A.M. AND 5:30 P.M. MONDAY THROUGH FRIDAY EXCLUSIVE OF HOLIDAYS. ANY WORK BEYOND THESES HOURS AND DAYS WILL ONLY BE ALLOWED UPON EXPLICIT APPROVAL OF THE CITY OF CUYAHOGA FALLS.

- 2. THE CONTRACTOR SHALL CONTACT THE CITY OF CUYAHOGA FALLS TO SCHEDULE A PRECONSTRUCTION MEETING. THE PRECONSTRUCTION MEETING SHALL BE HELD AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 3. THE CONTRACTOR SHALL KEEP A LEGIBLE AND CURRENT COPY OF THE APPROVED PLANS AND BID SPECIFICATIONS ON SITE AT ALL TIMES.
- 4. THE CONTRACTOR, CONTRACTOR'S EMPLOYEES, SUB-CONTRACTORS AND OTHER PERSONNEL AT THE SITE SHALL ACT APPROPRIATELY AND SHALL NOT USE PROFANE AND/OR OFFENSIVE LANGUAGE. THE CONTRACTOR IS RESPONSIBLE FOR THE BEHAVIOR OF THEIR EMPLOYEES AND SUBCONTRACTORS.

SITE REQUIREMENTS

CONTRACTOR SHALL AVOID AND MINIMIZE TO THE FULLEST EXTENT POSSIBLE WETLANDS AND OTHER WATER RESOURCES. ALSO CONTRACTOR SHALL INSTALL BEST MANAGEMENT PRACTICES AS PER ENCLOSED SWPP PLAN AND NOTES.

- 2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF CUYAHOGA FALLS OR IT'S REPRESENTATIVE IF SUSPECTED HAZARDOUS MATERIAL, MATERIALS THAT MAY CREATE A HEALTH RISK, ARCHAEOLOGICAL ARTIFACTS OR BONES ARE DISCOVERED ON SITE.
- AREAS BEYOND THE CONSTRUCTION LIMITS SHALL NOT BE DISTURBED INCLUDING THE STOCKPILE OF ANY MATERIALS OR CONSTRUCTION TRAFFIC.
- 4. CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE SITE CONDITION LIMITS AND AMOUNT OF DEBRIS TO BE REMOVED FROM THE SITE, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO, ALL TRASH, RUBBISH, RAILROAD TIES, CONCRETE, TIRES, SHINGLES, CONSTRUCTION DEBRIS, AND ALL OTHER DEBRIS AS DIRECTED BY THE CITY OF CUYAHOGA FALLS. ALL DEBRIS SHALL BE HAULED FROM THE SITE AND DISPOSED OF LEGALLY AND INCLUDED IN ITEM 202: DEBRIS REMOVAL AND DISPOSAL.
- THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES TO THE PROJECT WORK LIMITS AND SHALL NOT TRESPASS UPON PRIVATE PROPERTY.
- CONTRACTOR SHALL KEEP ALL STREETS, LANES, AND PARKING AREAS ADJACENT TO THE PROJECT AREA CLEAN AND FREE FROM ANY DEBRIS, MUD AND/OR OTHER CONSTRUCTION EQUIPMENT AT ALL TIMES DURING CONSTRUCTION.

THE LOCATION OF EXISTING UTILITIES AND STRUCTURES SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME OF SURVEY. THEY ARE SHOWN AS ACCURATELY AS POSSIBLE AND THE OWNER'S REPRESENTATIVE AND OWNERS ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THE UNDERGROUND FACILITIES SHOWN ON THE PLANS.

- 2. THE CONTRACTOR IS RESPONSIBLE, PRIOR TO CONSTRUCITON, TO DETERMINE THE ACTUAL LOCATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL CALL OUPS AT (800) 362-2764 AND OGPUPS AT (800) 925-0988 TWO FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 3. PRECISE LAYOUT SHALL BE DETERMINED BY A REGISTERED PROFESSIONAL SURVEYOR PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR'S SURVEYOR SHALL BE RESPONSIBLE FOR LAYOUT OF ALL SITE IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO ALL UTILITIES, LANDSCAPE AND TRAIL

CENTERLINES (AND THEIR LIMITS OF GRADING TO DETERMINE THE LOCATIONS FOR THE CONSTRUCTION FENCE INSTALLATION AND LIMITS OF TREE/BRUSH REMOVAL PRIOR TO CLEARING AND GRUBBING ACTIVITIES), BEST MANAGEMENT PRACTICE LIMITS, DRAINAGE STRUCTURES, ETC. FROM THE REFERENCED HORIZONTAL CONTROL AS SHOWN ON THE PLANS. PRECISE LAYOUT SHALL BE STAKED IN THE SITE BY THE CONTRACTOR'S SURVEYOR, REGISTERED IN THE STATE OF OHIO, AND APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.

- 5. THE CONTRACTOR SHALL REFERENCE ALL IRON PINS AND MONUMENTS IN DANGER OF DESTRUCTION BEFORE EXCAVATION. IF ANY PINS OR MONUMENTS ARE DISTURBED, A SURVEYOR, REGISTERED IN THE STATE OF OHIO, SHALL ACCURATELY RESET THEM AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OR REFERENCING OF THE PRIMARY CONTROL POINTS. ANY POINTS DISTURBED DURING CONSTRUCTION SHALL BE RESET IF NECESSARY BY THE CONTRACTOR'S SURVEYOR.
- 6. CONTRACTOR IS RESPONSIBLE TO MAINTAIN EXISTING SITE CONTROLS AND SET NEW AS

PROTECTION AND RESTORATION OF PROPERTY

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY.

- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE OR INJURY TO PROPERTY OF ANY CHARACTER, DURING THE EXECUTION OF THE WORK, RESULTING FROM ANY ACT, OMISSION, NEGLECT, OR MISCONDUCT OF HIS MANNER OR METHOD OF EXECUTING THE WORK, OR AT ANY TIME DUE TO DEFECTIVE WORK OR MATERIALS, AND SAID RESPONSIBILITY WILL NOT BE RELEASED UNTIL THE PROJECT SHALL HAVE BEEN COMPLETED AND ACCEPTED.
- 3. WHEN OR WHERE ANY DIRECT OR INDIRECT DAMAGE OR INJURY OCCURS TO PUBLIC OR PRIVATE PROPERTY BY OR ON ACCOUNT OF ANY ACT, OMISSION, NEGLECT, OR MISCONDUCT IN THE EXECUTION OF THE WORK, OR IN CONSEQUENCE OF THE NON-EXECUTION THEREOF BY THE CONTRACTOR, HE SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE, BY REPAIRING, REBUILDING OR OTHERWISE RESTORING AS MAY BE DIRECTED, OR SHALL MAKE GOOD SUCH DAMAGE OR INJURY IN AN ACCEPTABLE MANNER.
- 4. WHEN SIGNS AND SUPPORTS INTERFERE WITH CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND ERECT THEM IN A TEMPORARY LOCATION DURING CONSTRUCTION IN A MANNER SATISFACTORY TO AND AS DIRECTED BY THE ENGINEER. AFTER COMPLETION OF THE CONSTRUCTION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL ERECT THE SIGNS AND SUPPORTS IN THEIR ORIGINAL LOCATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE OR INJURY TO PROPERTY OF ANY CHARACTER DURING THE PROGRESSION OF THE WORK, RESULTING FROM ANY ACT, OMISSION, NEGLECT, OR MISCONDUCT OF THEIR MANNER OR METHOD OF EXECUTING THE WORK, OR AT ANY TIME DUE TO THE DEFECTIVE WORK OR MATERIALS, AND SAID RESPONSIBILITY WILL NOT BE RELEASED UNTIL THE PROJECT HAS BEEN COMPLETED AND ACCEPTED.
- 7. WHEN OR WHERE ANY DIRECT OR INDIRECT DAMAGE OR INJURY IS DONE TO PUBLIC OR PRIVATE PROPERTY BY OR ON ACCOUNT OF ANY ACT, OMISSION, NEGLECT, OR MISCONDUCT IN THE EXECUTION OF THE WORK, OR IN CONSEQUENCE OF THE NON-EXECUTION THEREOF BY THE CONDITION, THE CONTRACTOR SHALL RESTORE, AT THEIR OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE, BY REPAIRING, REBUILDING, OR OTHERWISE RESTORING AS DIRECTED, OR SHALL MAKE GOOD SUCH DAMAGE OR INJURY IN AN ACCEPTABLE MANNER.

CONSTRUCTION VIDEOS/PHOTOGRAPHS

1. THE CONTRACTOR SHALL PROVIDE VIDEO AND/OR PHOTOGRAPHS ADEQUATE TO ILLUSTRATE EXISTING CONDITIONS WITHIN AND SURROUNDING THE PROJECT LIMITS. A COPY OF THE VIDEO AND/OR PHOTOGRAPHS SHALL ALSO BE PROVIDED TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING CONSTRUCTION.

MATERIAL STORAGE/EQUIPMENT STORAGE

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE APPROPRIATE EQUIPMENT AND MATERIAL STORAGE AREA TO SUIT HIS NEEDS.

CONSTRUCTION SEQUENCE

THE CONTRACTOR SHALL ENGAGE IN THE CONSTRUCTION OF THE PROJECT SUCH THAT ADEQUATE ACCESS TO THE RESIDENCES AND ALL BUSINESSES IS MAINTAINED AT ALL TIMES. ONCE THE CONTRACTOR IS ENGAGED IN THE PROJECT, WORK SHALL BE CONTINUOUS USING FULL

- 2. CONTRACTORS SHALL DETERMINE THEIR MEANS FOR CONSTRUCTING THE INDICATED SITE IMPROVEMENTS ANTICIPATING THERE WILL NOT BE ANY ACCESS APPROVALS FROM THE ADJACENT PRIVATE PROPERTY. SHOULD ANY PRIVATE PROPERTY ACCESS BE GRANTED. THE CONTRACTOR SHALL RESTORE ALL ACCESS POINTS TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE PROJECT.
- CONTRACTOR SHALL SUBMIT A CONSTRUCTION ACCESS PLAN TO THE OWNER FOR APPROVAL BY THE OWNER IN WRITING, DELINEATING THE LOCATIONS OF CONSTRUCTION EQUIPMENT ENTRY TO THE PROJECT SITE. THE PLAN SHALL BE SUBMITTED AT THE PRE-CONSTRUCTION MEETING AND PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

UTILITIY OWNERSHIP

1. INVESTIGATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COSTS SHALL BE INCLUDED IN BID ITEMS.

2. LISTED BELOW ARE THE KNOWN UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

CITY OF CUYAHOGA FALLS ENGINEERING DEPARTMENT 2310 SECOND ST. CUYAHOGA FALLS, OH 44221 (330) 971-8180 ATTN: TONY DEMASI, P.E.

SUPERINTENDENT CUYAHOGA FALLS ELECTRICAL DEPARTMENT 330-971-8036 ATTN: ROD TROXELL

FIRST ENERGY 1910 W MARKET ST, BLDG 1 AKRON, OH 44313 (330) 436-4055 ATTN: DAVID MILLER

COUNTY OF SUMMIT DEPT. OF ENVIRONMENTAL SERVICES 1180 S. MAIN ST. #201 AKRON, OH 44301 (330) 926-2400ATTN: MIKE WEANT

AKRON, OH 44308 (330) 384-3449ATTN: JANE JEWETT DOMINION EAST OHIO

50 W. BOWERY STREET, 4th FLOOR

320 SPRINGSIDE DRIVE, SUITE 320 AKRON, OH 44333 (330) 664-2409ATTN: MARY LONG

3. THE LOCATION OF EXISTING UTILITIES AND STRUCTURES SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS AT THE TIME OF SURVEY AND INFORMATION PROVIDED BY THE UTILITY COMPANIES. THEY ARE SHOWN AS ACCURATELY AS POSSIBLE AND THE OWNER'S REPRESENTATIVE AND OWNER'S ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THE UNDERGROUND FACILITIES SHOWN ON THE PLANS.

4. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE SITE AND BECOME FAMILIAR WITH ALL PUBLIC UTILITIES (WATER, SEWER, GAS, ELECTRIC, CABLE TV, ETC.) WITHIN THE LIMITS OF THE PROJECT WHICH MAY INTERFERE WITH THE PROPOSED CONSTRUCTION. PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE ACTUAL LOCATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL CALL OUPS AT (800) 362-2764 AND OGPUPS AT (800) 925-0988 TWO FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

OVERHEAD AND UNDERGROUND ELECTRIC

1. CONTRACTOR SHALL VERIFY CLEARANCE OF OVERHEAD AND UNDERGROUND ELECTRIC SERVICE CROSSINGS.

1. SAFE PEDESTRIAN AND/OR VEHICULAR TRAFFIC SHALL BE MAINTAINED BY THE CONTRACTOR. STREETS AND PARKING AREAS SHALL NOT BE CLOSED UNLESS OTHERWISE SHOWN ON THE PLANS. CONTRACTOR SHALL INSTALL APPROPRIATE BARRIERS AND SIGNAGE TO MAINTAIN SAFE VEHICULAR AND PEDESTRIAN TRAFFIC. PAYMENT FOR BARRIERS AND SIGNAGE SHALL BE INCLUDED IN THE LUMP SUM BID FOR MAINTENANCE OF TRAFFIC.

1. THE CONTRACTOR SHALL INSTALL CONSTRUCTION FENCE AS DIRECTED BY THE OWNER, AND WHERE DESIGNATED ON THE PLANS. CONSTRUCTION FENCE SHALL PROTECT THE PUBLIC FROM CONSTRUCTION ACTIVITY WHILE PROTECTING THE NATURAL RESOURCES FROM CONSTRUCTION ACTIVITY EXTENDING BEYOND THE MINIMUM IMPACT AREA NECESSARY TO COMPLETE THE WORK.

PROHIBITED CONSTRUCTION ACTIVITIES

 DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOOD PLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.

- 2. LOCATING STOCKPILE STORAGE AREAS IN ENVIRONMENTALLY SENSITIVE AREAS.
- 3. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, ANY WETLANDS, ANY SURFACE WATERS, OR OUTSIDE THE EASEMENT LIMITS.
- 4. PUMPING OF SEDIMENT-LADEN WATER FROM TRENCHES OR OTHER EXCAVATIONS DIRECTLY INTO ANY SURFACE WATERS, ANY STREAM CORRIDORS, ANY WETLANDS, OR STORM SEWERS; ALL SUCH WATER WILL BE PROPERLY FILTERED OR SETTLED TO REMOVE SILT PRIOR TO RELEASE.
- 5. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUELS, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENTS, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
- 6. DISPOSING OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDOR, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNSPECIFIED LOCATIONS.
- 7. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
- 8. DISCHARGING INJURIOUS SILICA DUST CONCENTRATIONS INTO THE ATMOSPHERE RESULTING FROM BREAKING, CUTTING, CHIPPING, DRILLING, BUFFING, GRINDING, POLISHING, SHAPING OR SURFACING CLOSER THAN 200 FEET TO PLACES OF RESIDENCES OR COMMERCIAL, PROFESSIONAL, QUASI-PUBLIC OR PUBLIC PLACES OF HUMAN OCCUPATION.
- 9. STORING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED ON THE PLANS BY THE OWNERS REPRESENTATIVE FOR SUCH PURPOSES.
- 10. RUNNING WELL POINT OR PUMP DISCHARGE LINES THROUGH PRIVATE PROPERTY OR PUBLIC PROPERTY AND RIGHT-OF-WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE CONSENT OF THE OWNER'S REPRESENTATIVE.
- 11. OPERATIONS ENTAILING THE USE OF VIBRATORY HAMMERS OR COMPACTORS OUTSIDE THE HOURS OF 8:00 AM AND 5:00 PM OR OUTSIDE THE HOURS ALLOWED FOR CONSTRUCTION BY LOCAL ORDINANCES OR REGULATIONS ARE PROHIBITED.

12. CLOSING OFF CLEAR ACCESS TO ANY PUBLIC ALLEY, STREET, ROAD, AVENUE OR BOULEVARD WITHOUT THE PRIOR CONSENT OF LOCAL OFFICIALS AND THE OWNER, AND CLOSING CLEAR

- BY FIRE PROTECTION EQUIPMENT AND EMERGENCY VEHICLES;
- BY THE PUBLIC TO ANY COMMERCIAL OR PROFESSIONAL PLACE OF BUSINESS, QUASI-PUBLIC OR PUBLIC ESTABLISHMENT, OR PLACE OF RESIDENCE; OR
- BY VEHICLES TO DRIVEWAYS WITHOUT THE PROVISION OF ALTERNATIVE MEANS OF BUILDING INGRESS AND EGRESS.

DUST NUISANCE ORIGINATION

1. DUST PRODUCED FROM ANY OPERATIONS SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH ITEM 616. WATER AND/OR CALCIUM CHLORIDE SHALL NOT BE APPLIED UNLESS ORDERED BY THE ENGINEER.

REMOVAL OF DEBRIS AND SITE CLEANUP

- 1. THE PROJECT SITE MUST BE KEPT FREE OF CONSTRUCTION DEBRIS. TRASH. PAPER AND OTHER WASTE ITEMS. COLLECT AND REMOVE THESE ITEMS AT THE END OR EACH WORK DAY.
- 2. AS REQUIRED DURING THE COURSE OF EACH WORK DAY. THE CONTRACTOR SHALL SWEEP ALL PAVED AREAS AFFECTED BY THE DAY'S WORK. PAVEMENT SHALL BE SCRAPED AND SWEPT TO REMOVE ALL DIRT, MUD AND DEBRIS. INCLUDE THE COST OF THIS WORK IN THE PRICE BID FOR THE EXCAVATION.

CLEAN-UP

1. AT THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM CONSTRUCTION AND SHALL RESTORE ALL SURFACES, STRUCTURES, LANDSCAPE AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER. THE CONTRACTOR SHALL CLEAN THE PROJECT AREA AT THE END OF EACH DAY FOR THE DURATION OF THE PROJECT. ALL ADJOINING ROADWAYS SHALL BE FREE OF DIRT, MUD AND DEBRIS AT ALL TIMES. CONTRACTOR MUST PROVIDE A DUMPSTER FOR COLLECTION OF CONSTRUCTION DEBRIS AND PAY FOR EMPTYING OF CONTENTS IN LEGAL MANNER.

1. DO NOT SCALE FROM THESE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED. DIMENSIONS ARE TO FACE OF CURB AND EDGE OF PAVEMENT.

- 2. CONTRACTOR IS OBLIGATED TO VERIFY ALL DIMENSIONS ON THE GROUND AND REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE OWNERS REPRESENTATIVE.
- 3. UNLESS OTHERWISE SHOWN, ALL COORDINATE POINTS ARE GIVEN FROM THE CENTER POINT OF THE SITE ELEVEMENTS AND STRUCTURES.
- 4. CONSTRUCTION NOTES AND TYPICALS MAY APPEAR ONLY ONCE ON THE DRAWING BUT APPLY TO ALL SIMILAR CONDITIONS.

<u>GRADING NOTES</u> 1. PRIOR TO CONSTRUCTION, PLACE EROSION CONTROL FENCING AS SHOWN ON THE SWPPP DETAILS AND AT THE DRIP LINE OF TREES. DO NOT PARK OR STORE ANY VEHICLES, EQUIPMENT

OR BUILDING MATERIALS WITHIN THE PROTECTED AREAS. OBTAIN FIELD APPROVAL FROM THE OWNER, ENGINEER.

- 2. MAINTAIN UNIFORM AND POSITIVE SLOPES FOR ALL REGRADED SURFACES.
- ENGINEER TO APPROVE ROUGH GRADING PRIOR TO FINISH-GRADING AND TO APPROVE FINISH-GRADING OF SOIL SURFACE AREAS PRIOR TO SEEDING OR LANDSCAPING.

4. ELEVATIONS SHOWN ARE TO BE FINAL GRADE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO GRADE TO FINISH GRADE EXCEPT WHERE THE SPLASHPAD AND WALKS ARE SHOWN. IN THESE AREAS THE CONTRACTOR SHALL GRADE TO SUBGRADE. SEE LAYOUT PLAN FOR PAVEMENT TYPES.

- 5. FINAL GRADES TO SHALL BE SMOOTH AND EVEN, AND MATCH TO EXISTING GRADES AS SHOWN. VERIFY GRADES IN FIELD. TOPSOIL SHALL BE SPREAD SO AS TO CONFORM TO THE FINISHED GRADES SHOWN.
- 6. NO BLASTING WILL BE PERMITTED ON THIS PROJECT.
- 7. NO COMPACTION SHALL OCCUR WITHIN THE FOOTPRINT OF THE BIORETENTION CELLS.

<u>ITEM SPECIAL - MOBILIZATION, TEMPORARY MAINTENANCE OF TRAFFICE AND SWPPP, AS PER</u>

ITEM SHALL CONFORM TO THE REQUIREMENTS OF ODOT 624.00, 614.00, 832.00 AND PLAN NOTES. ITEM INCLUDES ANY ITEMS NOT PAID FOR SPECIFICALLY IN OTHER PAY ITEMS, BUT ARE INCLUDED IN THE DRAWINGS, NOTES, SPECIFICATIONS OR CONTRACT. ITEM INCLUDES ANY MAINTENANCE, INSPECTION RECORDS AND INSPECTIONS OF ALL ITEMS NOT SPECIFIED IN OTHER PAY ITEMS, INSTALLATION OF SILT SOCK, TEMPORARY SEED, PERMANENT LAWN SEED (DISTURBED AREAS NOT ALREADY IDENTIFIED BY OTHER SEED), AND OTHER TEMPOARY SEDIMENT AND EROSION CONTROL MEASURES.

<u>ITEM 201.00 - CLEARING AND GRUBBING, AS PER PLAN</u>

1. TREES 3-INCHES AND ABOVE IN CALIPER WERE FELLED FOR THE CONSTRUCTION OF THIS PROJECT BY OTHERS PRIOR TO THIS CONTRACT, IN CONFORMANCE WITH INDIANA BAT AND NORTHERN LONG EARED HABITAT RULES.

2. ITEM INCLUDES REMOVAL AND DISPOSAL OF ALL TREES PREVIOUSLY FELLED UNDER SEPARATE CONTRACT AND REMOVAL OF ALL TREES 2" IN DIAMETER OR LESS, STUMP REMOVAL (INCLUDING STUMPS OF PREVIOUSLY REMOVED TREES) AND REMOVAL OF ALL ROOTS, SHRUBS AND VEGETATION. DEBRIS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF SITE AT A LOCATION LICENSED TO ACCEPT SUCH MATERIAL. FOR TREES, REMOVAL INCLUDES THE ROOT MASS. NO ROOT MASS IS PERMITTED WITHIN THE FOOTPRINT OF ANY PAVEMENT (CHIP & SEAL, CONCRETE, AGGREGATE).

<u>ITEM 202.00 - REMOVAL OF EXISTING STRUCTURES, AS PER PLAN</u>

1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING PIPES, CATCH BASINS, YARD DRAINS, CONCRETE DRAINAGE CHANNELS, GUARDRAILS, LANDSCAPE TIMBERS, AND OTHER ITEMS WITHIN THE LIMITS OF WORK THAT WILL BE ABANDONED OR OTHERWISE NOT USED AS PART OF THE ROADWAY AND STORM SEWER IMPROVEMENTS. ABANDONING PIPES IN PLACE OR FILLING THEM WITH GROUT IS NOT ACCEPTABLE, UNLESS AUTHORIZED BY THE ENGINEER. THE PROPERTY OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL LANDSCAPE ITEMS REMOVED.

2. ALL ITEMS REMOVED SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR STRUCTURES REMOVED, EXCEPT FOR REMOVAL ITEMS NOTED SEPARATELY. INCLUDE IN PIPE REMOVAL AND CATCH BASIN REMOVAL THE COST OF TRENCH BACKFILL AND COMPACTION. BACKFILL MATERIAL IN TRENCHES UNDER OR WITHIN 3 FEET OF NEW OR EXISTING PAVEMENT SHALL BE TYPE 1 STRUCTURAL BACKFILL PER ODOT ITEM 703.11. BACKFILL MATERIAL ALL OTHER AREAS SHALL BE SUITABLE NATIVE MATERIAL. THERE IS NO SEPARATE PAY ITEM FOR ROADWAY OR DRIVEWAY PAVEMENT REMOVED WHICH IS INCLUDED IN THE EXCAVATION VOLUME.

<u>ITEM 203.00 - EXCAVATION, AS PER PLAN</u> THE CONTRACTOR IS OBLIGATED TO DISK AND DRY WET SUBGRADE SOILS AS DESCRIBED UNDER ITEM 203.07. ALLOW TIME IN THE CONSTRUCTION SCHEDULE FOR THIS OPERATION. THIS WORK IS CONSIDERED INCIDENTAL TO EARTHWORK AND THERE WILL BE NO ADDITIONAL PAYMENT. HOWEVER, AREAS OF EXTREMELY WET OR UNSUITABLE MATERIAL ENCOUNTERED DURING EXCAVATION OR PROOF ROLLING OPERATIONS SHALL BE ADDRESSED AS FOLLOWS:

- THE CONTRACTOR SHALL CONDUCT THIS OPERATION UNDER THE SUPERVISION OF THE CITY OR THE ENGINEER WHO SHALL THEN DETERMINE WHAT AREAS WILL REQUIRE ADDITIONAL DRYING AND COMPACTION OR BE DEEMED UNSUITABLE AND EXCAVATED AND REPLACED WITH SUITABLE MATERIAL FROM ONSITE OR OFFSITE. WHEN ORDERED BY THE ENGINEER, SUBGRADE REPAIR SHALL BE PERFORMED. THIS INCLUDES REMOVAL OF EXISTING MATERIAL TO 20" DEEP, INSTALLATION OF TYPE 'D' GEOTEXTILE FABRIC (ODOT ITEM 712.09), AND 18" OF NO. 1 AND NO. 2 STONE TOPPED WITH 2" OF ITEM 304 GRAVEL. THOROUGHLY COMPACTED IN PLACE.
- 2. ONCE THE AREAS HAVE BEEN REPAIRED, THE CONTRACTOR SHALL CONDUCT ANOTHER PROOF ROLL OF THESE AREAS UNDER THE SUPERVISION OF THE CITY OR ENGINEER TO ENSURE ALL UNSTABLE/UNSUITABLE AREAS HAVE BEEN CORRECTED. THE CONTRACTOR SHALL ONLY PERFORM THE SUBGRADE REPAIR UNDER THE DIRECTION OF THE CITY ENGINEER.
- 3. EXCESS EXCAVATION WILL BE STOCKPILED ON SITE. THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER. THE STOCKPILE SHALL BE GRADED SMOOTH AND COMPACTED TO 90% DENSITY. A SILT FENCE AROUND THE STOCKPILE IS REQUIRED FOR SEDIMENT CONTROL. SEEDING AND MULCHING ARE ALSO REQUIRED.

ITEM 203.00 - EXCAVATION, AS PER PLAN: EXPORT EXCESS SOIL

ITEM INCLUDES THE REMOVAL AND DISPOSAL OF EXCESS EXCAVATION MATERIAL. IF EXCESS MATERIAL WILL BE TEMPORARILY STOCKPILED, IT MUST BE ON SITE, WITH THE EXACT LOCATION DETERMINED BY THE ENGINEER. A SILT FENCE AROUND THE STOCKPILE IS REQUIRED FOR SEDIMENT CONTROL. SEEDING AND MULCHING ARE ALSO REQUIRED. THE STOCKPILE SHALL BE GRADED SMOOTH AND COMPACTED TO 90% DENSITY.

ITEM 252.00 - SAW CUT, FULL DEPTH

ITEM SHALL CONFORM TO THE REQUIREMENTS OF ODOT 252.00.

<u>ITEM SPECIAL - CHIP</u> & SEAL TRAIL (TYPE A & TYPE B)

ITEM SHALL CONFORM TO THE REQUIREMENTS OF ODOT 422.00 SINGLE, TYPE A AND PLAN DETAILS.

ITEM INCLUDES SUBGRADE PREPARATION PER ODOT 204.00.

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14-00436-060

GENERAL NOTES

PROJECT NO.:

<u> ITEM SPECIAL — BOARDWALK TRAIL (TYPE C)</u> CONTRACTOR SHALL PROVIDE SHOP DRAWING, STAMPED BY AN OHIO REGISTERED ENGINEER. DRAWINGS SHALL INCLUDE: POSTS/PILE (SIZES, LOCATIONS, DEPTH), STRINGERS, BEAMS, JOISTS AND CONNECTIONS, AND DECKING BASED ON SHOWN DESIGN INTENT AND OHIO BUILDING CODES. ENGINEER SHALL REVIEW AND APPROVE DRAWINGS PRIOR TO FABRICATION. TIMBER PILES SHALL SHOW FABRICATION AND INSTALLATION DETAILS FOR PILES INCLUDING DETAIL OF DRIVING SHOES, TIPS OR BOOTS, AND PILE BUTT PROTECTION.

1. A PREINSTALLATION CONFERENCE IS REQUIRED AT THE SITE.

2. UNIT PRICES SHALL INCLUDE LABOR, MATERIAL, TOOLS, EQUIPMENT, AND INCIDENTALS FOR FURNISHING, CONSTRUCTING, DRIVING, CUTTING, CAPPING, AND FINISHING BOARDWALK. NO PAYMENT WILL BE MADE FOR REJECTED, DAMAGED OR DEFECTIVE MATERIALS.

3. HANDLE AND STORE MATERIALS AT PROJECT SITE TO PREVENT BREAKS, CUTS, ABRASIONS OR OTHER PHYSICAL DAMAGE AS REQUIRED BY AWPA M4. DO NOT DRILL HOLES OR DRIVE SPIKES OR NAILS INTO PILE BELOW CUTOFF ELEVATION.

4. TEST PILES THAT BECOME PART OF PERMANENT FOUNDATION SYSTEM AND ARE CONSIDERED AN INTEGRAL PART OF THE WORK.

5. GEOTECHNICAL INVESTIGATIONS HAVE NOT BEEN PERFORMED.

6. NO CONCRETE FOOTINGS SHALL BE PERMITTED WITHIN DELINEATED WETLAND AREAS.

7. LIMIT DISTURBED AREAS TO A MAXIMUM OF 2.5 SQUARE FOOT PER POST/PILING.

8. ALL CONNECTIONS TO BE HOT DIP GALVANIZED.

9. SUBMIT PERSERVATIVES USED FOR WOOD PRODUCTS, ROUND TIMBER PILE TREATMENT DATA, PILE-DIVING EQUIPMENT DATA, PILE-DRIVING RECORDS, AND FIELD QUALITY-CONTROL REPORTS. 10. COMPLY WITH DOC PS 20 AND GRADING RULES OF LUMBER INCLUDING FACTORY MARK EACH ITEM WITH GRADE STAME OF GRADING AGENCY, MARK GRADE STAND ON END OR BACK OF EACH PIECE FOR ITEMS THAT ARE EXPOSED TO VIEW, AND PROVIDE DRESSED LUMBER, S4S.

11. MAXIMUM MOISTURE CONTEST FOR BOARDS IS 15 %, DIMENSION LUMBER 16% AND TIMBER 16%. 12. DIMENSION LUMBER SHALL BE NO. 1 GRADE SOUTHERN PINE, BOARD AND DECKING SHALL BE SOUTHERN PINE NO. 2, AND PILES SHALL BE SOUTHERN PINE (ASTM D25)

13. PRESSURE TREAT BOARDS AND DIMENSION LUMBER WITH WATERBORNE PRESERVATIVE ACCORDING TO AWPA U1: USE CATEGORY UC3B FOR BOARDS NOT IN CONTACT WITH GROUND AND UC4A FOR ITEMS IN CONTACT WITH GROUND. PRESURE TREAT TIME WITH WATERBORNE PRESERVATIVE ACCORDING TO AWPA U1; USE CATEGORY UC4A. TREATMENT WITH CCA SHALL INCLUDE A POST-TREATMENT FIXATION PROCESS. DO NOT USE PRESERVATIVE CHEMICALS CONTAINING ARSENIC OR CHROMIUM AND ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. AFTER TRATMENT. RE-DRY DIMENSION LUBMER AND BOARDS/DECKING TO 19% MAXIMUM MOISTURE CONTENT. MARK TREATED WOOD WITH TREATMENT QUALITY MARK OF AN INSPECTION AGENCY APPROVED BY ALSC'S BOARD OR REVIEW.

14. PROVIDE FASTENERS OF SIZE AND TYPE INDICATED. ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND THAT COMPLY WITH REQUIREMENTS SPECIFIED. PROVIDE NAILS OR SCREWS, IN SUFFICIENT LENGTH, TO PENETRATE NOT LESS THAN 1-1/2 INCHES INTO WOOD SUBSTRATE. ALL METAL FASTENERS, CONNECTORS, OR OTHER HARDWARE IN DIRECT CONTACT WITH ANY PRESERVATIVE TREATED LUMBER SHALL BE STIANLESS STEEL TYPE 304 OR TYPE 316 OR BE HOT DIPPED GALVANIZED PER ASTM 123. OTHER HARDWARE SUCH AS HANGERS AND TIES SHALL MEET AST A653. BOLTS, NUTS, LAG BOLTS, AND WASHERS SHALL BE HOT-DIPPED GALVANIZED. DECK SCREWS SHALL BE STAINLESS STEEL. 15. SET WORK TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB, TRUE TO LINE, AND FITTED. FIT WORK TO OTHER CONSTRUCTION. COMPLY WITH AF&PA WCD1. INSTALL METAL FRAMING ANCHORS TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS. APPLY CPPER MAPHTHENATE FIELD TREATMENT TO COMPLET WITH AWPA M4 TO CUT SURFACES OF PRESERVATIVE-TREATED LUMBER. SECURELY ATTACH EXTERIOR ROUGHT CARPENTRY WORK TO SUBSTYRATE BY ANCHORING AND FASTENING AS INDICATED, COMPLYING WITH THE FOLLOWING: ICC-ES AC70 FOR POWER-DRIVEN FASTENERS, FASTENING SCHEDULE IN ICC'S INTERNATIONAL BUILDING CODE AND STRUCTURAL MEMBERS AND ALTERNATE ATTACHMENTS.

16. TIMBER PILES SHALL BE SOUTHERN PINE SPECIES, 10-INCH DIAMETER, MEETING ASTM D25, PRESSURE-TREAT ACCORDING TO AWPA U1 WHEN GROUND CONTACT EXTREME DUTY UC4C, OTHERWISE WATERBOARNE PRESERVATIVE.

17. DRIVING SHOES SHALL BE FABRICATED FROM AST A1011/A1011M, HOT-ROLLED CARBON-STEEL STRIP TO SUIT PILE-TIP DIAMTER. PILE TIPS SHALL BE CUT AND SHAPED TO ACCEPT DIVING SHOES. FIT AND FASTEN DRIVING SHOES TO PILE TIPS ACCORDING TO MANUFACTURER'S WIRTTEN INSTRUCTIONS. PILE BUTT SHALL BE TRIMMED AND CUT PERPENDICULAR TO LONGITUDINAL AXIS OF PILE. CHAMFER AND SHAPE BUTT TO FIT TIGHTLT TO DRIVING CAP OF HAMMER. FIELD-APPLIED WOOD PERSERVAITVE SHALL BE USED TO TREAT FIELD CUTS, HOLES, AND OTHER PENETRATIONS ACCORDING TO AWPA M4. PILE-LENGTH MARKINGS SHALL BE MADE WITH HORIZONTAL LINES AT 12-INCH INTERVALS; LABEL THE DISTANCE FROM PILE TIP AT 60-INCH INTERVALS.

18. CONTINUSOULY DRIVE PILES TO ELEVATIONS OR PENETRATION RESISTANCE INDICATED. ESTABLISH AND MAINTIN AXIAL ALIGHMNET OF LEADS AND PILES BEFORE AND DURING DRIVING. REDRIVE HEAVED PILE TO TIP ELEVATION AND LEAST AS DEEP AS ORIGINAL TIP ELEVATION.

19. DRIVE PILES WITHOUT EXCEEDING THE FOLLOWING TOLERANCES, MEASURED AT PILE HEADS LOCATION SHALL BE 4 INCHES FROM LOCATION IDICATED AFTER INTIAL DRIVING AND 6 INCHES AFTER PILLE DIRIVNG IS COMPLETED; MAINTAIN 1 INCH IN 48 INCHES FROM VERTICAL, OR MAXIMUM 4 INCHES, MEASURED WHEN PILE IS ABOVE GROUND IN LEADS; MAXIMUM 1 INCH IN 48 INCHES FROM REQUIRED ANGLE. MEASURE WHEN PILE IS AVOVE GROUND IN LEADS. WITHDRAW DAMAGED OR DEFECTIVE PILES AND INSTALL NEW PILES WITHIN DRIVING TOLERANCES. FILL HOLES LEFT BY WITHDRAWN PILES AS DIRECTED BY ENGINEER. CUT OFF BUTS OF DRIVEN PILES SQUARE WITH PILE AXIS AND AT ELEVATION INDICATED. COVER CUT-OFF PILING WITH MINIMUM THREE COAST OF PRESERVATIVE TREATMENT MAINTAIN ACCURATE DRIVING RECORDS FOR EACH PILE.

<u>ITEM SPECIAL - BOARDWALK ABUTMENT, AS PER PLAN</u>

1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, STAMPED BY AN OHIO REGISTERED ENGINEER FOR APPROVAL BASED ON PRELIMINARY DESIGN IN PLAN DETAILS.

<u>ITEM SPECIAL — BOARDWALK BRIDGE</u>

1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, STAMPED BY AN OHIO REGISTERED ENGINEER DRAWING SHALL INCLUDE PILES, ABUTMENTS, POSTS, STRINGERS, BEAMS, JOISTS, CONNECTIONS, DECKING AND RAILING FOR BRIDGE BASED ON SHOWN DESIGN INTENT AND AS PER OHIO BUILDING CODE REQUIREMENTS. OWNER SHALL REVIEW AND APPROVE DRAWINGS PRIOR TO FABRICATION. 2. BOARDWALK BRIDGES SHALL BE DESIGNED TO A MINIMUM OF VEHICLE LOADING OF AASHTO H-5

(10,000 POUNDS). 3. ALL CONNECTIONS SHALL BE HOT DIPPED GALVANIZED.

4. GEOTECHNICAL INVESTIGATIONS HAVE NOT BEEN PREFORMED.

5. ITEM INCLUDES ALL BOARDWALK BRIDGE ABUTMENTS, FOOTINGS, AND HANDRAILS.

2. ITEM SHALL CONFORM TO THE REQUIREMENTS OF ODOT 511.00 AND PLAN DETAILS.

6. NO CONCRETE FOOTING SHALL BE PERMITTED WITHIN DELINEATED WETLAND AREAS. 7. ALL REQUIREMENTS OF BOARDWALK (TYPE C) APPLY.

<u> ITEM SPECIAL — GRAVEL PARKING LOT</u>

ITEM SHALL CONFORM TO THE REQUIREMENTS OF ODOT 304.00, 712.09, AND 204.00 AND PLAN DETAILS.

<u>ITEM SPECIAL — CRUSHED LIMESTONE</u>

ITEM SHALL CONFORM TO THE REQUIREMENTS OF ODOT 304.00, 703.01, AND 204.00 AND PLAN

<u>ITEM SPECIAL - CRUSHED TRAIL CONNECTION TO NORTH POINT</u> ITEM SHALL CONFORM TO THE REQUIREMENTS OF ODOT 304.00, 703.01, AND 204.00 AND PLAN DETAILS.

<u>ITEM 452.00 - CONCRETE PAVEMENT - STANDARD AND HEAVY DUTY, AS PER PLAN</u> ALL CONCRETE USED ON THE PROJECT SHALL BE TESTED. A MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PRIOR TO BEGINNING WORK FOR REVIEW AND APPROVAL. CONCRETE SHALL BE TESTED FOR AIR, SLUMP, AND COMPRESSIVE STRENGTH. SUBMIT A COPY OF EACH REPORT TO THE ENGINEER IMMEDIATELY AFTER THE TEST IS CONDUCTED. ALL TEST REPORTS FOR THE MONTH MUST BE SUBMITTED BY THE TIME OF CONTRACTOR'S PAY REQUEST SUBMITTAL, OR THE SUBMITTAL WILL BE CONSIDERED INCOMPLETE AND WILL BE RETURNED TO THE CONTRACTOR.

<u>ITEM 511.00 - CLASS QC1 CONCRETE HEADWALL, AS PER PLAN</u> ITEM SHALL CONFORM TO THE REQUIREMENTS OF ODOT 511.00 AND PLAN DETAILS.

<u> ITEM SPECIAL — CONCRETE WHEEL STOP</u>

PAINT COLOR SHALL BE WHITE.

CONTRACTOR TO PROVIDE CUT SHEET FOR APPROVAL PRIOR TO INSTALLATION.

<u> ITEM SPECIAL — SHARROW</u> ITEM SHALL CONFORM TO ODOT 641.00 AND 642.00 AND MUTCD FIGURE 9C-9.

ITEM 606.12 - TIED CONCRETE BLOCK MAT ITEM SHALL CONFORM TO ODOT 601.12.

<u>ITEM 608.00 - STANDARD CONCRETE CURB, AS PER PLAN</u> ITEM SHALL CONFORM TO ODOT 608.00 AND PLAN DETAILS.

<u>ITEM 608.00 - WIDE CONCRETE CURB, AS PER PLAN</u> ITEM SHALL CONFORM TO ODOT 608.00 AND PLAN DETAILS.

<u>ITEM SPECIAL – CONCRETE FLUME, AS PER PLAN</u> ITEM SHALL CONFORM TO ODOT 608.00 AND PLAN DETAILS.

<u>ITEM SPECIAL — BIORETENTION CELL, AS PER PLAN</u> CONTRACTOR SHALL PROVIDE DATA SHEETS AND LAB TESTS FOR ALL BIORETENTION & FILTER BED SOIL MIX MATERIALS TO ENGINEER FOR APPROVAL (SEE SPECIFICATIONS). 2. CONTRACTOR TO PREVENT SEDIMENT FROM ENTERING THE BASIN AT ALL TIMES DURING

3. CONSTRUCTION EQUIPMENT IS NOT ALLOWED WITHIN THE LIMITS OF THE BIORETENTION BASIN. 4. COMPACTION OF THE BIORETENTION BASIN SUBGRADE LIMITS SHALL NOT OCCUR. INSTALL BIORETENTION BASIN MATERIALS AS SPECIFIED. CONTRACTOR SHALL USE RAKE METHOD TO SCARIFY SUBGRADE UNDER THE SUBSURFACE STORAGE/BIORETENTION SYSTEM.

<u>ITEM 611.00 - STORM SEWER, AS PER PLAN</u>

CONSTRUCTION.

1. STORM SEWER PIPE SHALL CORRUGATED POLYETHYLENE PIPE WITH A SMOOTH INTERIOR LINER, ITEM 707.33, WITH GASKET JOINTS.

ALL STORM SEWER LENGTHS SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

3. BEDDING SHALL BE CLASS B PER ITEM 603.04 EXCEPT THAT SLAG AND CRUSHED CONCRETE IS NOT PERMITTED. BEDDING SHALL EXTEND FROM 6" BELOW THE BOTTOM OF PIPE TO THE SPRINGLINE (FOR CONCRETE PIPE) AND TO 12" ABOVE THE THE TOP OF PIPE (FOR POLYETHYLENE PIPE). BACKFILL SHALL BE TYPE 1 STRUCTURAL BACKFILL PER ITEM 703.11 WHERE STORM SEWER IS PLACED BELOW AND/OR BEHIND CURB, PAVEMENT AND/OR DRIVES, OR WHEN THE EDGE OF THE TRENCH IS WITHIN 3 FEET OF SUCH. BACKFILL SHALL BE SUITABLE NATIVE MATERIAL WHERE STORM SEWER IS PLACED BELOW ROADSIDE DITCHES.

4. ROOF DRAINS, FOUNDATION DRAINS AND SEPTIC DRAINS SHALL BE PVC, ASTM D-3034, SDR 35. BEDDING SHALL BE TYPE 2 PER ITEM 603.06 AND BACKFILL SHALL BE NATIVE MATERIAL COMPACTED PER ITEM 603.10, SECTION D.

5. ALL BACKFILL IN TRENCHES SHALL BE PLACED IN 6" LIFTS AND COMPACTED USING MECHANICAL TAMPERS. COMPACTION RATES SHALL BE PER ITEM 603.11.

6. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE UNCOMPLETED TRENCH SHALL BE BACKFILLED OR SECURELY PLATED WITHOUT ANY EXTRA COST TO THE OWNER.

7. STORM SEWER INSTALLATION SHALL INCLUDE: EXCAVATING FOR PIPE AND FOUNDATIONS FOR SAME, INCLUDING CLEARING AND GRUBBING AND THE REMOVAL OF ALL MATERIALS NECESSARY FOR PLACING THE PIPE EXCEPT REMOVALS LISTED SEPARATELY; FURNISHING AND PLACING OF BEDDING AND BACKFILL AS REQUIRED; CONSTRUCTING AND SUBSEQUENTLY REMOVING ALL NECESSARY COFFERDAMS, CRIBS AND SHEETING; PUMPING AND DEWATERING; SEALING OR BANDING ALL PIPE JOINTS WHERE REQUIRED; FURNISHING AND INSTALLING ALL NECESSARY PIPE BENDS AND BRANCHES OF A TYPE AT LEAST EQUAL TO THE CONDUIT OF WHICH THEY BECOME A PART; JOINING TO THE EXISTING AND PROPOSED APPURTENANCES AS REQUIRED; CORE DRILLING EXISTING STRUCTURES FOR CONNECTING TO NEW STORM SEWERS; PERFORMING LEAKAGE TESTS AS SPECIFIED; RESTORATION OF DISTURBED FACILITIES AND SURFACES; AND PROVIDING EROSION CONTROL PADS AND ANIMAL GUARDS ON UNDERDRAIN AT ALL OUTLETS.

8. MANHOLE LIDS MUSH BE SET TO THE PAVEMENT CROSS SLOPE. GRADE RING SHALL HAVE VARIABLE THICKNESS TO ACHIEVE THE REQUIRED CROSS SLOPE ACROSS THE LID.

9. EXISTING ROOF DRAINS OR YARD DRAINS DISTURBED BY THE PROPOSED WORK SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTION TO STORM SEWER MANHOLE, BIORETENTION BASIN, OR AS DIRECTED BY THE ENGINEER. PROVIDE FITTINGS AND CONNECTORS AS REQUIRED FOR ALL CONNECTIONS. THE COST OF WHICH WILL BE INCLUDED IN THE PRICE BID FOR PIPE. CONNECTIONS TO STORM SEWERS SHALL BE MADE USING MANUFACTURED FITTINGS SUCH AS KOR-N-TEE CONNECTORS, OR EQUAL. A CLEAN OUT SHALL ALSO BE PROVIDED.

10. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE BY ROUTING DRAINAGE FLOWS THAT ARE INTERRUPTED BY TRAIL CONSTRUCTION ON THE UPSLOPE SIDE OF THE TRAIL. THE CONTRACTOR SHALL MAKE MINOR GRADING ADJUSTMENTS IN THE FIELD ALONG THE PROPOSED SWALES AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.

11. WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

12. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED DIFFERS FROM THE PLAN ELEVATIONS OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE. THE CONTRACTOR SHALL NOTIFY THE CITY OF CUYAHOGA FALLS BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

13. THE CONTRACTOR SHALL INSPECT ALL EXISTING CULVERTS AND REPORT CONCERNS TO THE OWNER PRIOR TO CONSTRUCTION.

<u>ITEM 630.00 - TRAFFIC SIGN, AS PER PLAN</u>

1. ITEM SHALL CONFORM TO THE REQUIREMENTS OF ODOT 630.00.

<u>ITEM SPECIAL - ODNR SIGN, AS PER PLAN</u> 1. ITEM SHALL CONFORM TO THE REQUIREMENTS OF ODOT 630.00.

<u>ITEM 651.00 - TOPSOIL STOCKPILED, AS PER PLAN</u> LITTLE TOPSOIL EXISTS ON SITE. WHERE TOPSOIL EXISTS, IT SHALL BE STRIPPED AND STOCKPILED ON SITE IN AN APPROVED LOCATION. THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER. THE STOCKPILE SHALL BE GRADED SMOOTH AND COMPACTED TO 90% DENSITY. A SILT FENCE AROUND THE STOCKPILE IS REQUIRED FOR SEDIMENT CONTROL. SEEDING AND MULCHING ON THE STOCKPILE IS ALSO REQUIRED. THE ESTIMATED EXISTING TOPSOIL THICKNESS IN TURFGRASS AREAS ON SITE IS 3 INCHES.

<u>ITEM 652.00 - PLACING STOCKPILED TOPSOIL, AS PER PLAN</u>

UPON COMPLETION OF THE WORK, THE STOCKPILED TOPSOIL WILL BE EVENLY DISTRIBUTED OVER THE AREAS INDICATED TO RECIEVE TOPSOIL IN A UNIFORM THICKNESS OF AT LEAST 4 INCHES. STOCKPILED TOPSOIL IN EXCESS OF THE AMOUNT NEEDED FOR THE ABOVE NOTED WORK WILL BE HAULED AND DISPOSED ON OFFSITE. IF MINIMUM IS NOT MET, DISTRIBUTE STOCKPILED TOPSOIL EVENLY.

ITEM 659 - SEEDING AND MULCHING, AS PER PLAN SEED MIXTURES, PLANTINGS AND OTHER PROPOSED VEGETATION SHALL CONFORM TO THE SPECIFICATIONS WITHIN THESE NOTES AND AS NOTED ON THE LANDSCAPE PLAN.

THE VARIOUS SECTIONS OF ITEM 659, SEEDING AND MULCHING, AS DESCRIBED IN ODOT CMS SHALL APPLY, EXCEPT AS AMENDED BY THE FOLLOWING:

ITEM 659.04 COMMERCIAL FERTILIZER SHALL BE REPLACED BY LAWN FERTILIZER AS FOLLOWS:

659.04 LAWN FERTILIZERS. "STARTER" FERTILIZER FOR LAWNS SHALL BE A DRY TYPE WITH A RATIO AS NOTED IN THE SOIL TEST ANALYSIS RESULTS AND APPLIED AT THE RATE SPECIFIED IN THOSE ANALYSES.

"FOLLOW-UP" FERTILIZER SHALL BE A DRY TYPE FERTILIZER SUCH AS AN 18-5-9 OR 25-5-10 OR SIMILAR RATIO, APPLIED AT THE RATE OF ONE POUND OF ACTUAL NITROGEN PER 1,000 SQUARE FEET UNLESS OTHERWISE DIRECTED BY THE ENGINEER. FIFTY PERCENT OF THE TOTAL NITROGEN SHALL BE WATER INSOLUBLE (W.I.N.). OTHER ANALYSIS REQUIRES APPROVAL OF THE ENGINEER. CONTRACTOR SHALL APPLY THE "FOLLOW-UP" FERTILIZER UPON ACCEPTANCE.

ITEM 659.07 SEED SHALL BE REPLACED BY THE FOLLOWING:

ALL SEED SHALL MEET THE FOLLOWING REQUIREMENTS:

98 PERCENT PURITY, 85 PERCENT GERMINATION

THE CONTRACTOR SHALL FURNISH TO THE ENGINEER A LETTER OF CERTIFICATION THAT ALL SEED TO BE USED COMES FROM A SOURCE APPROVED BY THE CITY, AND MEETS THE REQUIREMENTS OF THESE SPECIFICATIONS. SEED WHICH IS WET, MOLDY OR OTHERWISE DAMAGED IN TRANSIT SHALL NOT BE ACCEPTABLE. THE SEED MIX SHALL BE DELIVERED IN CLEAN SEALED BAGS BEARING CERTIFIED ANALYSIS AS FOLLOWS (PERCENTAGES ARE BY WEIGHT):

LAWN SEED MIX:

SUNNY SEED MIX (RELATIVELY LOW MAINTENANCE)

35% KENTUCKY BLUEGRASS, 10% BARON KENTUCKY BLUEGRASS, 15% PENNLAWN RED FESCUE 10% BRIGHTSTAR II PERENNIAL RYEGRASS, 10% PIZZAZZ PERENNIAL RYEGRASS, 10% SEVILLE II PERENNIAL RYEGRASS

OR AN EQUAL APPROVED BY THE ENGINEER. APPLY SEED AT THE RATE OF 5 POUNDS PER 1,000 SQUARE FEET.

A DETERMINATION WILL BE MADE DURING CONSTRUCTION REGARDING WHICH TYPE OF SEED MIX BEST FITS THE PROJECT CONDITIONS. IT IS POSSIBLE THAT ONE TYPE OF SEED MIX WILL NOT BE USED FOR THE ENTIRE PROJECT AREA.

ITEM 659.10 SITE PREPARATION SHALL BE REPLACED BY THE FOLLOWING:

<u>ITEM 659.10 - SITE PREPARATION, AS PER PLAN</u>

PRIOR TO PLACING TOPSOIL, INSPECT THE SURFACE OF THE SUBGRADE. REMOVE ALL STONES, ROOTS, OR OTHER MATERIAL FROM THE SURFACE THAT IS LARGER THAN ONE INCH AS MEASURED IN ANY ONE DIRECTION. THEN PLACE TOPSOIL IN ACCORDANCE WITH ITEM 659.11.

LIME, IF REQUIRED AS A RESULT OF SOIL TEST OR AS REQUIRED BY THE ENGINEER, SHALL BE INCORPORATED INTO THE SOIL BY DISC, HARROW OR TILLER TO A DEPTH OF SIX INCHES OR AS OTHERWISE DIRECTED.

"STARTER" FERTILIZER SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 4 INCHES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. "STARTER" FERTILIZER SHALL BE INCORPORATED SEPARATELY FROM LIME INCORPORATION.

SEEDBED SHALL THEN BE PREPARED REMOVING ALL ROCK AND FOREIGN MATERIAL GREATER THAN ONE INCH IN ANY DIRECTION AND FINE GRADED BY RAKING TO PLAN GRADE, TO THE SATISFACTION OF THE

THE CONTRACTOR SHALL PERFORM CORE AERATION TO A MINIMUM DEPTH OF THREE (3) INCHES WITH A MINIMUM OF TWENTY (20) HOLES PER SQUARE FOOT PRIOR TO THE APPLICATION OF A "FOLLOW-UP"

A "FOLLOW-UP" FERTILIZER SHALL BE APPLIED TO THE NEWLY ESTABLISHED LAWN AFTER ACCEPTANCE.

ITEM 659 - MAINTENANCE SHALL BE REPLACED BY THE FOLLOWING: 659.18 MAINTENANCE OF LAWN SEED AREAS. ALL SEEDED AND MULCHED AREAS SHALL BE MAINTAINED UNTIL ACCEPTANCE. MAINTENANCE SHALL ALSO INCLUDE FURNISHING AND INSTALLING APPROVED BARRICADES AND SIGNS TO PROTECT NEWLY SEEDED AND MULCHED AREAS. ALL AREAS DAMAGED FOLLOWING SEEDING OR MULCHING OPERATIONS DUE TO WIND, WATER, FIRE, OR OTHER CAUSES SHALL BE REPAIRED. SUCH DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH THE CONDITION AND GRADE OF THE AREA PRIOR TO SEEDING. IT THEN SHALL BE REFERTILIZED, RESEEDED AND REMULCHED, AS DIRECTED BY THE ENGINEER.

CONTRACTOR SHALL MAINTAIN SEEDED AREAS UNTIL ACCEPTANCE (SEE GENERAL NOTES #12 & 20); MINIMUM OF 30 DAYS AFTER A SATISFACTORY STAND OF GRASS IN VIGOROUS AND THRIVING CONDITION IS ESTABLISHED. MAINTENANCE SHALL INCLUDE WATERING, MOWING, WEEDING, AERATING, RESEEDING, FERTILIZING AND DISEASE AND PEST CONTROL. ETC.

WATER SHALL BE APPLIED, UNDER SUFFICIENT PRESSURE, WITH A NOZZLE THAT WILL PRODUCE A SPRAY PATTERN THAT WILL ADEQUATELY WATER BUT NOT DISLODGE THE MULCHING MATERIAL, EVERY SEVEN DAYS DURING THE MAINTENANCE PERIOD UNLESS OTHERWISE DETERMINED BY THE ENGINEER, AT A RATE OF 120 GALLONS PER 1,000 SQUARE FEET.

MOW TO A HEIGHT OF TWO INCHES WHENEVER GRASS BECOMES THREE INCHES HIGH. NOT MORE THAN ONE-THIRD OF THE GRASS HEIGHT SHALL BE REMOVED WITH EACH MOWING.

AREAS WHICH DO NOT SHOW A SATISFACTORY STAND OF GRASS SHALL BE RESEEDED AT INTERVALS OF TEN TO FIFTEEN DAYS UNTIL A SATISFACTORY STAND OF GRASS SHALL BE RESEEDED AT INTERVALS OF TEN TO FIFTEEN DAYS UNTIL A SATISFACTORY TURF IS ESTABLISHED.

IN TURF AREAS THAT HAVE SETTLED, TOPSOIL SHALL BE ADDED AND THE ENTIRE AREA RE-SEEDED AT THE RATE SPECIFIED FOR THAT SEED MIX. IN TURF AREAS THAT HAVE NOT SETTLED, A SILT SEEDER SHALL BE USED. THIS WILL SALVAGE THE EXISTING TURF AND INCORPORATE THE SEED INTO THE SOIL. THE SEED SHALL BE APPLIED AT HALF THE RATE SPECIFIED FOR THAT SEED MIX. AN ACCEPTABLE LAWN SHALL BE DEFINED AS HAVING A CLOSE STAND OF SPECIFIED GRASS, 6-12 PLANTS PER SQUARE INCH DEPENDING ON THE SPECIFIED VARIETY, IN A VIGOROUS AND THRIVING CONDITION.

TURF AREAS SHALL BE REASONABLY FREE OF WEEDS AND UNDESIRABLE COARSE GRASSES. REASONABLY FREE OF UNDESIRABLE WEEDS AND COARSE GRASSES SHALL MEAN WEEDS AND/OR COARSE GRASSES EXIST IN LESS THAN FIVE PERCENT OF THE TOTAL SEEDED AREA. A WEED CONTROL PROGRAM WILL BE REQUIRED WHEN WEEDS AND OR COARSE GRASSES SURPASS FIVE PERCENT OF ANY GIVEN AREA, OR FIVE PERCENT OF TOTAL AREA SEEDED. CONTROL MAY BE EXERCISED MANUALLY OR THROUGH CHEMICAL CONTROL. WHEN CHEMICALS ARE USED TO CONTROL UNDESIRABLE GRASSES OR BROADLEAFED WEEDS, INSECTS OR DISEASES, THE CONTRACTOR WILL BE REQUIRED TO POSSESS A COMMERCIAL APPLICATOR'S LICENSE WITH THE STATE OF OHIO AND APPLY CHEMICALS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. DISEASE AND PEST CONTROL SHALL INCLUDE, BUT NOT BE LIMITED TO, DAMAGE BY FUNGUS, BACTERIA OR INSECTS, ETC., AS IDENTIFIED BY THE ENGINEER.

WATER HOSE, COUPLINGS AND SPRINKLERS SHALL BE PROVIDED TO REACH ALL AREAS OF THE NEWLY SEEDED AREAS TO RECEIVE WATER. NATURAL RAINFALL SHALL BE SUPPLEMENTED TO PROVIDE SUFFICIENT MOISTURE FOR SEED GERMINATION.

NOTE THAT WEED CONTROL IS REQUIRED, BUT IT SHALL NOT BE PAID FOR SEPARATELY. INCLUDE COSTS IN THE PRICE BID FOR SEEDING AND MULCHING.

A DISEASE AND PEST CONTROL PROGRAM SHALL BE DEVELOPED IF NECESSARY, THE COST OF WHICH WILL BE INCLUDED IN A CHANGE ORDER.

PLANTING BED PREPARATION

1. PRIOR TO ALL PLANTING, ROTOTILL ALL PLANTING BEDS TO PREPARE FOR PLANT INSTALLATION TO A MINIMUM 8 INCH DEPTH. COMPLETELY PULVERIZE SOILS TO REMOVE ALL CLODS AND CLUMPS TO ATTAIN NATURAL TEXTURE OF SOIL MATERIALS. ELIMINATE UNEVEN AREAS AND LOW SPOTS. MAINTAIN LINES, LEVELS, PROFILES, AND CONTOUR. MAKE CHANGES IN GRADE GRADUAL. BLEND SLOPES INTO LEVEL AREAS. REMOVAL ALL DEBRIS, WEEDS, UNDESIRABLE PLANTS AND THEIR ROOTS FROM AREAS TO BE PLANTED. REMOVAL ALL CONCRETE SLAG LARGER THAN 2" IN DIAMETER.

AMEND ALL SOIL IN PLANTING BEDS BY PLACING A MINIMUM 4" DEPTH OF TOPSOIL TO FULL EXTENT OF THESE AREAS. TILL TOPSOIL INTO UPPER 8 INCHES BY DIGGING, SPADDING OR ROTOTILLING. ORGANIC MATTER MAY BE SUBSTITUTED IF SUFFICIENT TOPSOIL IS NOT

<u>ITEM 661 - PLANTING TREES, SHRUBS, PERENNIALS AND VINES, AS PER PLAN</u>

1. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTIONS, CONTACT THE ENGINEER BEFORE PLANTING OPERATIONS ARE TO PROCEED. FINAL PLACEMENT OF PLANT MATERIALS, ETC. SHALL BE APPROVED BY OWNER'S REPRESENTATIVE BEFORE PLANTING OPERATIONS ARE TO PROCEED.

2. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, ETC.., AS NECESSARY TO COMPLETE ALL PLANTING AS SHOWN ON THESE DRAWINGS, AS SPECIFIED HEREIN AND/OR AS REQUIRED BY JOB CONDITIONS. THE WORK IN GENERAL INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: (1) PROVIDE ALL PLANT MATERIAL AS INDICATED, (2) EXCAVATION OF PLANT PITS, (3) TOPSOIL BACKFILL FOR PLANT PITS, (4) FERTILIZING, GUYING, WRAPPING, (5) MAINTENANCE AND GUARANTEE, (6) ALL OTHER ITEMS NECESSARY TO MAKE WORK COMPLETE.

PLANT MATERIAL SHALL BE HIGH QUALITY NURSERY-GROWN MATERIALS FROM HARDINESS ZONES 4 AND 5, AS ESTABLISHED BY THE ARNOLD ARBORETUM, EXCEPT AS APPROVED BY THE LANDSCAPE ARCHITECT, SOUND AND FREE OF DISEASE OR INSECT INFESTATION. PLANTS SHALL BE FRESHLY DUG AND SHALL CONFORM WITH REQUIREMENTS AS ESTABLISHED IN THE ANSI Z 60.1, AMERICAN STANDARD

4. THE NAMES OF PLANTS REQUIRED UNDER THIS CONTRACT SHALL CONFORM TO THOSE GIVEN IN STANDARDIZED PLANT NAMES, 1942 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES NOT INCLUDED THEREIN SHALL CONFORM GENERALLY WITH NAMES ACCEPTED IN THE NURSERY TRADE. PLANTS SHALL HAVE A HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES AND SHALL BE SOUND, HEALTHY, VIGOROUS, WITH WELL DEVELOPED ROOT SYSTEMS AND FREE FROM INSECT PESTS, PLANT DISEASES, AND INJURIES. ALL PLANTS SHALL EQUAL OR EXCEED THE MEASUREMENTS SPECIFIED IN THE PLANT LIST, WHICH ARE MINIMUM ACCEPTABLE SIZES. TREES SHALL HAVE SINGLE TRUNKS EXCEPT AS NOTED. ALL SHRUBS SHALL BE HEALTHY, VIGOROUS, AND OF GOOD COLOR. ANY NECESSARY PRUNING SHALL BE DONE AT THE TIME OF PLANTING. HOWEVER, NO PLANT SUPPLIED UNDER THIS CONTRACT SHALL BE PRUNED BACK TO SUCH EXTENT THAT IT NO LONGER MEETS SPECIFICATIONS. REQUIREMENTS FOR THE MEASUREMENTS, BRANCHING, GRADING, QUALITY, BALLING, AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOW THE CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN STANDARD FOR NURSERY STOCK. SUBSTITUTIONS WILL BE PERMITTED ONLY UPON SUBMISSION OF PROOF THAT ANY PLANT IS NOT OBTAINABLE AND AUTHORIZATION BY THE OWNER OR OWNER'S REPRESENTATIVE OF A CHANGE ORDER PROVIDING FOR USE OF THE NEAREST EQUIVALENT OBTAINABLE SIZE OR VARIETY OF PLANT HAVING THE SAME ESSENTIAL CHARACTERISTICS WITH AN EQUITABLE ADJUSTMENT OF CONTRACT

5. THE CONTRACTOR MAY USE TOPSOIL AFTER SECURING SOIL TEST (V.P.I.) AND APPLYING RECOMMENDED TREATMENT THEREOF. TOPSOIL SHALL BE FRIABLE, FERTILE, FINE LOAM OF NATURAL CHARACTERIZATIONS TYPICAL OF TOPSOIL OF LOCALITY, FREE OF NOXIOUS WEEDS, STONES LARGER THAN TWO INCHES, AND ALL OTHER DELETERIOUS MATERIAL.

6. FERTILIZER SHALL BE 5-10-5 STANDARD PRODUCT OF A RECOGNIZED MANUFACTURER OF COMMERCIAL FERTILIZER AND SHALL CONFORM TO THE APPLICABLE STATE AND LOCAL FERTILIZER LAWS. IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING, SHALL NOT BE STORED IN DIRECT CONTACT WITH THE GROUND AND SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL, UNOPENED CONTAINERS, BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS.

7. PEAT HUMUS SHALL BE PULVERIZED HORTICULTURAL GRADE SPHAGNUM MOSS FREE FROM EXTRANEOUS MATERIAL. PEAT MOSS SHALL BE THOROUGHLY MOISTENED PRIOR TO USE.

THE CONTRACTOR SHALL MAKE, AT HIS EXPENSE, WHATEVER ARRANGEMENTS MAY BE NECESSARY TO ENSURE AN ADEQUATE SUPPLY OF WATER TO MEET THE NEEDS OF THIS CONTRACT. HE SHALL ALSO FURNISH ALL NECESSARY HOSE, EQUIPMENT ATTACHMENTS AND ACCESSORIES FOR THE ADEQUATE IRRIGATION OF LAWNS AND PLANTED AREAS AS MAY BE REQUIRED.

9. EXISTING SOIL BACKFILL SHALL NOT BE USED FOR SHRUB AND PERENNIAL PITS. SHRUB AND PERENNIAL PIT BACKFILL SHALL CONSIST ENTIRELY OF THE TOPSOIL/PEAT MIX.

10. MULCH SHALL BE CLEAN, SHREDDED HARDWOOD BARK MULCH, AGED TWO (2) YEARS. APPLY THREE (3) INCHES IN DEPTH OVER ALL BEDS, SHRUBS AND TREE PLANTINGS.

11. CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL WITHIN THE LIMITS OF WORK UNTIL FINAL INSPECTION AND ACCEPTANCE OF THE PROJECT BY THE OWNER. MAINTENANCE SHALL INCLUDE WATERING DURING DRY PERIODS AS DIRECTED BY THE ENGINEER, WEEDING, CULTIVATING, PRUNING, REFERTILIZATION APPLICATION OF ANTI-DESSICANT AND CONTROL OF INSECTS FUNGUS AND OTHER DISEASES BY MEANS OF SPRAYING WITH AN APPROVED INSECTICIDE OR FUNGICIDE. ALL WEEDS WITHIN THE MULCHED AREA SHALL BE REMOVED AS OFTEN AS REQUIRED. UNDER NO CIRCUMSTANCES SHALL WEEDS BE ALLOWED TO ATTAIN MORE THAN SIX (6) INCHES OF GROWTH.

12. NURSERY STOCK SHALL BE FULLY GUARANTEED FOR ONE (1) FULL YEAR. ALL PLANTS THAT FAIL TO MAKE NEW GROWTH FROM A DORMANT CONDITION OR THAT DIE DURING THE FIRST YEAR AFTER PLANTING SHALL BE REPLACED. ALL REPLACEMENTS SHALL CONFORM WITH THE ORIGINAL SPECIFICATIONS AS TO SIZE AND TYPE. THEY SHALL BE FURNISHED AND PLANTED AS SPECIFIED UNDER PLANTING AND COST SHALL BE BORNE BY THE CONTRACTOR EXCEPT FOR POSSIBLE REPLACEMENT. RESULTING FROM REMOVAL, LOSS OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART BY THE OWNER.

13. FINAL ACCEPTANCE OF THIS CONTRACT SHALL TAKE PLACE AFTER REPLACEMENT OPERATION IS SATISFACTORILY COMPLETED AND ALL PLANTS ARE IN A HEALTHY GROWING CONDITION.

<u>PLANTING INSTALLATION</u>

1. PLANTING HOLES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANTING DETAILS.

2. INSTALL 3-INCH DEPTH OF MULCH AROUND ALL TREE AND SHRUB BEDS AS INDICATED ON THE PLANTING DETAILS.

3. ALL PLANT MATERIALS SHALL BE THOROUGHLY WATERED IN UPON COMPLETION OF PLANTING OPERATIONS. PLANTS THAT CANNOT BE INSTALL ON THE SAME DAY THEY ARE DELIVERED TO THE SITE SHALL BE MULCHED IN AND ADEQUATELY WATERED UNTIL PLANTED.

<u>ITEM SPECIAL — EROSION CONTROL MATTING</u>

ITEM 832.00 - SILT FENCE, AS PER PLAN

ITEM TO CONFORM TO THE REQUIREMENTS OF ODOT 671.00 AND PLAN DETAILS.

ITEM TO CONFORM TO THE REQUIREMENTS OF ODOT 832.00 AND PLAN DETAILS.

ITEM 832.00 - WETLAND SILT FENCE, AS PER PLAN ITEM TO CONFORM TO THE REQUIREMENTS OF ODOT 832.00 AND PLAN DETAILS.

ITEM SPECIAL - SEGMENTAL RETAINING WALL

SEGMENTAL RETAINING WALL UNITS SHALL BE UNILOCK ROMANWALL RETAINING WALL UNITS OR APPROVED EQUAL. ALL CAP UNITS SHALL BE ADHERED TO THE UNITS BELOW USING CONCRETE ADHESIVE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. ALTERNATE DIRECTION OF CAP UNITS TO ELIMINATE GAPS BETWEEN UNITS. CUT CAP UNITS AS NECESSARY TO OBTAIN PROPER FIT AROUND CURVED PORTIONS OF THE WALL, AT CORNERS, AND AT ENDS OF WALL 2. PERFORATED DRAIN TILE SHALL BE 4" DIAMETER PERFORATED, SINGLE—WALL HDPE PIPE. PROVIDE SUITABLE CONNECTION RINGS, FLANGES AND COUPLERS TO JOIN PIPE SECTIONS TOGETHER PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.

3. CONCRETE ADHESIVE SHALL BE PL 375 AS MANUFACTURED BY LOCTITE OR APPROVED EQUIVALENT

<u>ITEM SPECIAL - 6' HEIGHT PRIVACY VINYL FENCE</u>

1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL FOR THE FENCE AND GATE. 2. FENCE SHALL BE ILLUSIONS VINYL PRIVACY FENCE, OR APPROVED EQUIVALENT. MODEL V300-6 TONGUE AND GROOVE PANELS & 5" X 5" SQUARE EXTRUDED TUBES. COLOR TO BE TAN.

3. INCLUDE ONE (1) FOUR-FOOT WIDE GATE AT LOCATION SPECIFIED. INCLUDE HARDWARE.

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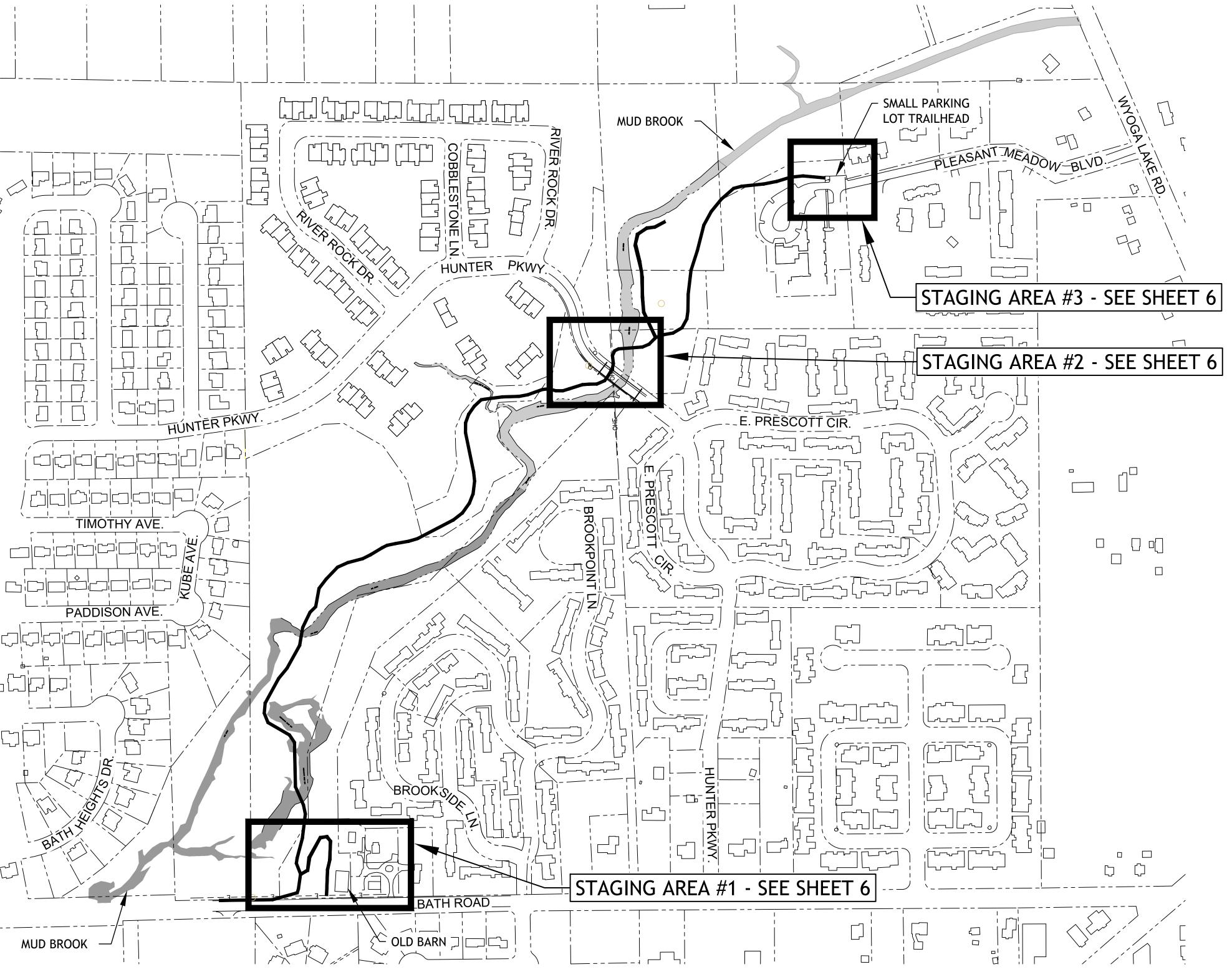
REVISIONS ♠ | DATE | DESCRIPTION | PROJECT NO.: 14-00436-060 DRAWN BY:

GENERAL NOTES

2/19/2021

HECKED BY:

DATE ISSUED:



MAINTENANCE OF TRAFFIC:

THIS WORK CONSISTS OF THE MAINTENANCE OF TRAFFIC AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.

- 1. FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC DURING THE HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THESE DRAWINGS AND:
- A) THE SPECIAL PROVISION OF THE CONTRACT
- B) ODOT CMS 2019 SPECIFICATIONS
- C) CITY OF CUYAHOGA FALLS
- D) U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION AND ALL SUPPLEMENTS APPLICABLE TO THE WORK DATED TO THE DATE OF ADVERTISEMENT.
- 2. UNLESS OTHERWISE NOTED AND EXCEPT FOR REGULATORY SIGNS, (SERIES R), ALL SIGNS HAVE A NON-REFLECTORIZED BLACK LEGEND AND RETRO-REFLECTIVE ORANGE BACKGROUND.
- 3. MOUNTING OF ALL SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH ODOT CMS 2019 AND AS PER CITY OF CUYAHOGA FALLS CODES.
- 4. REMOVE ALL EXISTING SIGNS AS REQUIRED TO ACCOMMODATE CONSTRUCTION OPERATIONS. REINSTALL THESE SIGNS AT THE COMPLETION OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER.
- 5. THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR TRAFFIC CONTROL AS PER ODOT CMS 2019 AND CITY OF CUYAHOGA FALLS CODES.
- 6. NOTIFY THE CITY OF CUYAHOGA FALLS (10) DAYS IN ADVANCE OF DRIVEWAY RESTRICTIONS. COORDINATE LOCATION OF ANY TRAFFIC CONTROL DEVICES LOCATED ON THE PROPERTY WITH THE CITY OF CUYAHOGA FALLS.

7. PROVIDE SUFFICIENT NUMBER OF PROPERLY ATTIRED FLAGGERS (VEST, HARD HAT, ETC.) TO ADEQUATELY CONTROL TRAFFIC FLOW THROUGH THE WORK ZONE AS REQUIRED BY THE CITY OF CUYAHOGA FALLS, WHICH INCLUDES ANY INTERSECTING STREETS IN THE WORK ZONE AND AS DIRECTED.

8. LIMIT ANY LANE CLOSURE TO THE LENGTH NECESSARY TO SAFELY PERFORM THE REQUIRED WORK. AT NOT TIME SHALL COMPLETE STREET CLOSURE BE INSTITUTED.

9. AT THE END OF EACH WORKDAY AND WHENEVER PRACTICAL DURING THE WORKDAY, EQUIPMENT, VEHICLES AND MATERIALS SHALL BE STORED A MINIMUM OF 10 FEET FROM THE EDGE OF THE NEAREST OPEN TRAVEL LANE OR THEY SHALL BE ADEQUATELY STORED WITHIN THE CONSTRUCTION LIMITS. IF EQUIPMENT, VEHICLES AND MATERIALS CANNOT BE STORED AS DESCRIBED ABOVE, OR IF THESE ITEMS ARE PLACED FOR USE ON OR NEAR THE ROADWAY WITHIN THE WORK ZONE, BARRICADED, DRUMS OR OTHER PROTECTIVE DEVICES SHALL BE PLACED AROUND THE EQUIPMENT, VEHICLES AND STORAGE SITE TO WARN AND PROTECT THE TRAVELING PUBLIC.

10. DO NOT ALLOW EMPLOYEES TO PARK THEIR PERSONAL VEHICLES ON ANY TRAVEL LAND, SHOULDER, OR SEEDED AREA ALONG THE ROADWAY.

11. IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE THE MAINTENANCE OF TRAFFIC DEVICES.

12. ALL WORKERS SHALL WEAR THE YELLOW/GREEN ANS 11 VESTS.

13. NOTIFY THE CITY OF CUYAHOGA FALLS ENGINEER TEN (10) DAYS IN ADVANCE OF ANY SIGNAGE INTENDED TO BE PLACED.

14. MAINTAIN A MINIMUM OF TWO 10-FOOT TRAVEL LANES ON ALL STREETS AT ALL TIMES, EXCEPT THAT TWO 8-FOOT LANDS MAY BE MAINTAINED IF ONGOING CONSTRUCTION REQUIRE IT. A SINGLE 11-FOOT LANE MAY BE MAINTAINED USING FLAGGERS IN ACCORDANCE WITH ODOT CMS 2019 AND CIT OF CUYAHOGA FALLS CODE.

15. NOTIFY CITY OF CUYAHOGA FALLS PRIOR TO CONSTRUCTION. CITY OF CUYAHOGA FALLS TO PROVIDE CONSTRUCTION/PERMIT APPROVAL OF ALL WORK.





POND-MUD BROOK

MILL POND-A GREENWAY



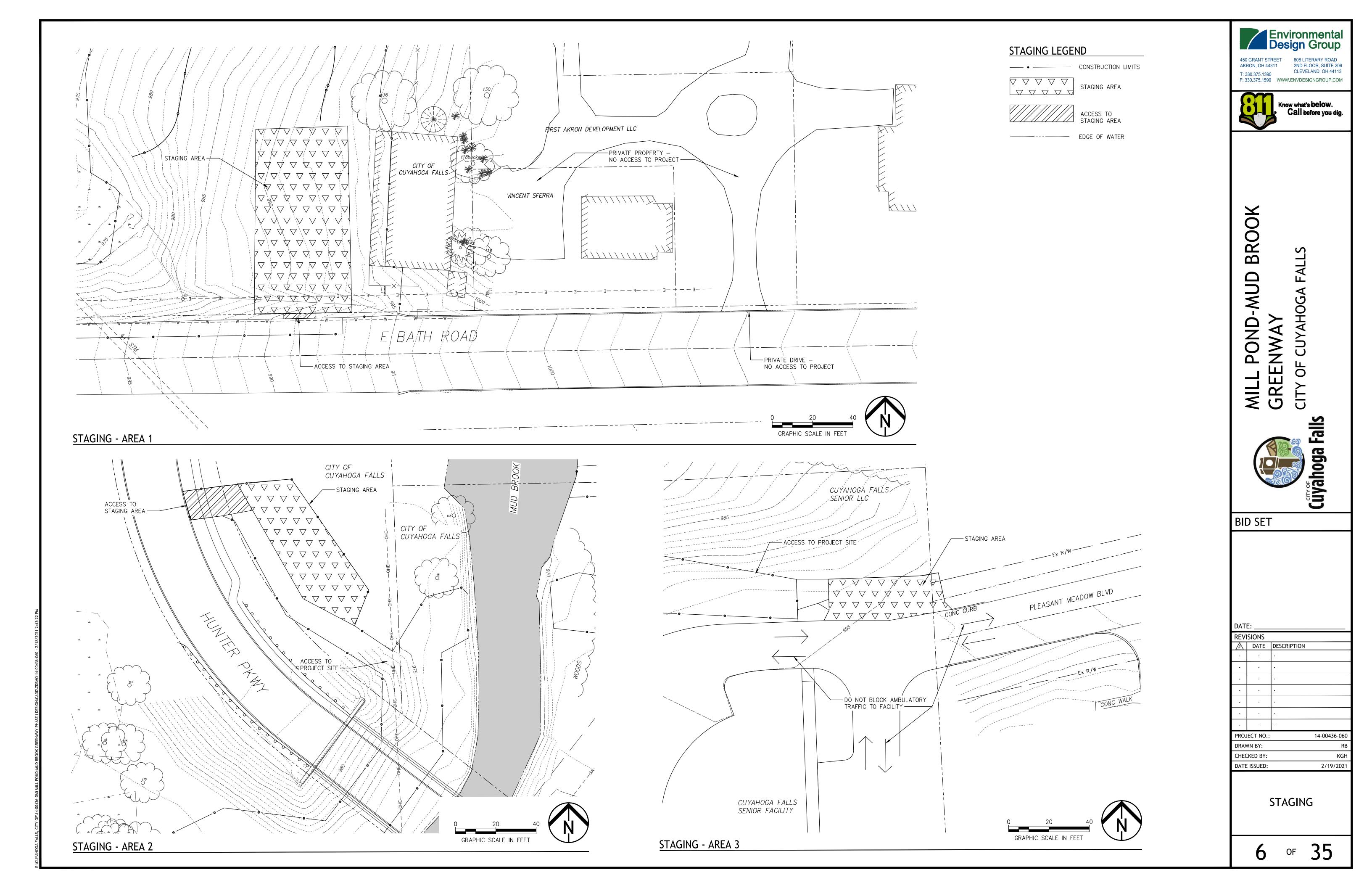
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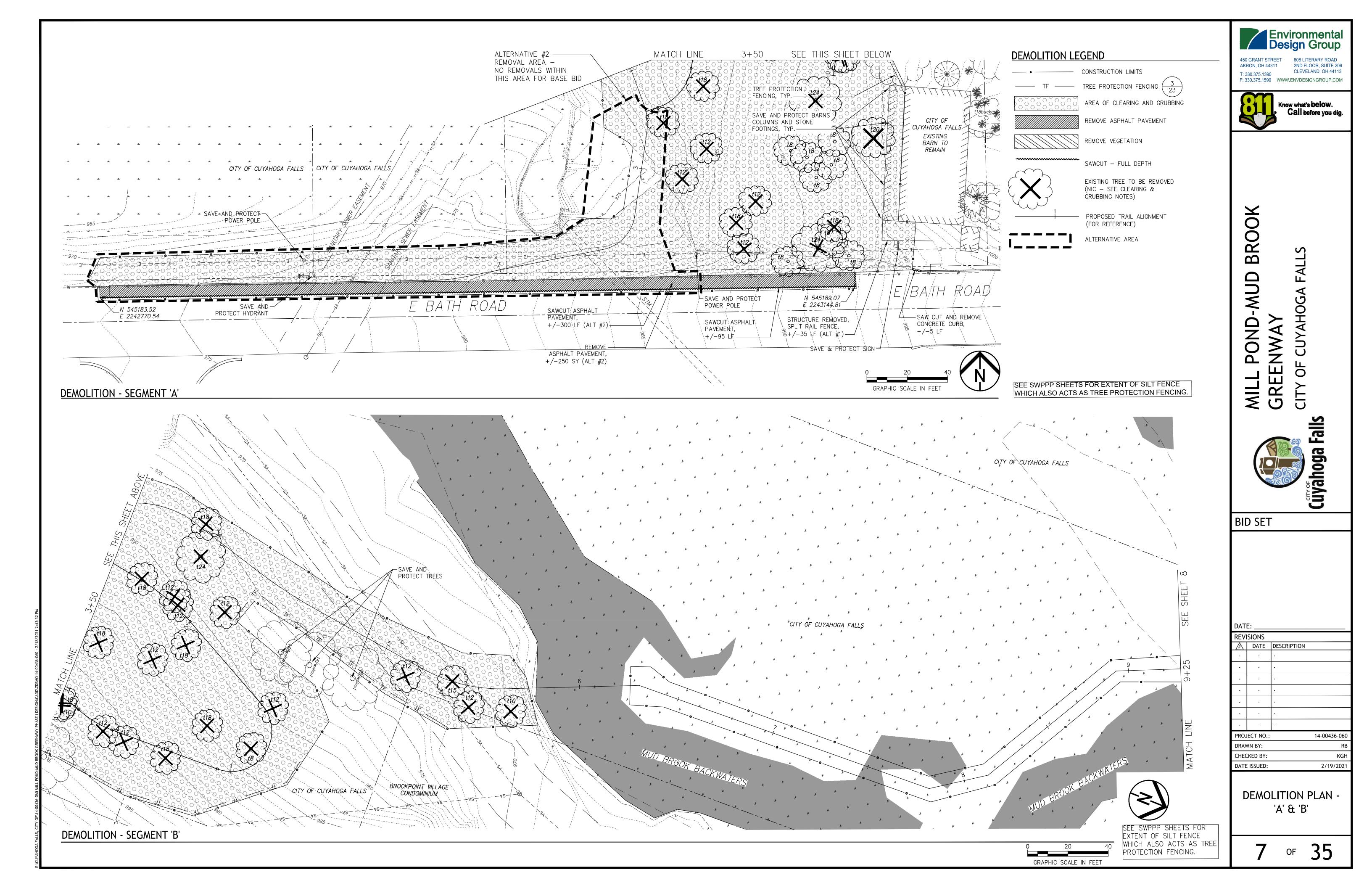
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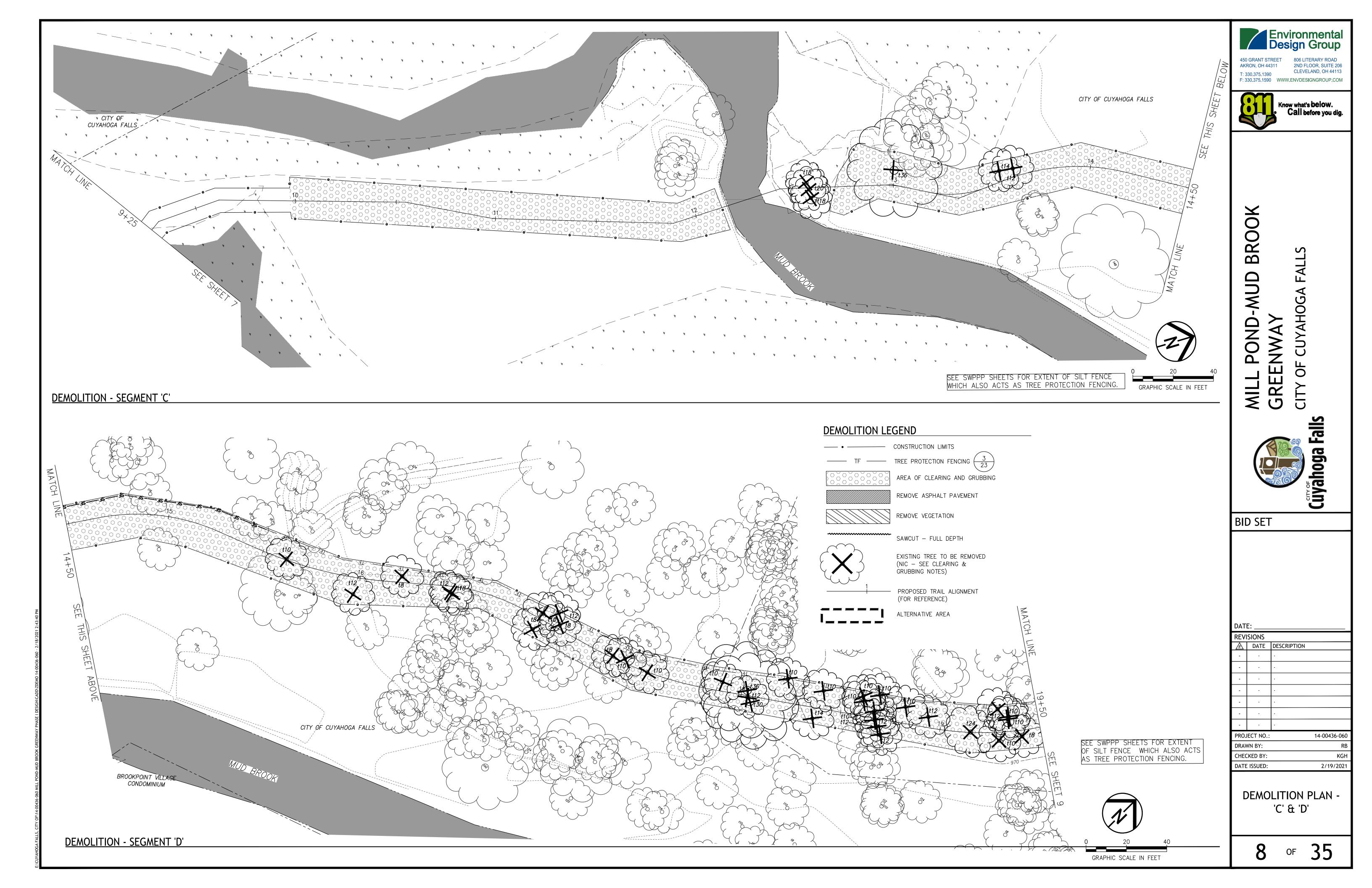
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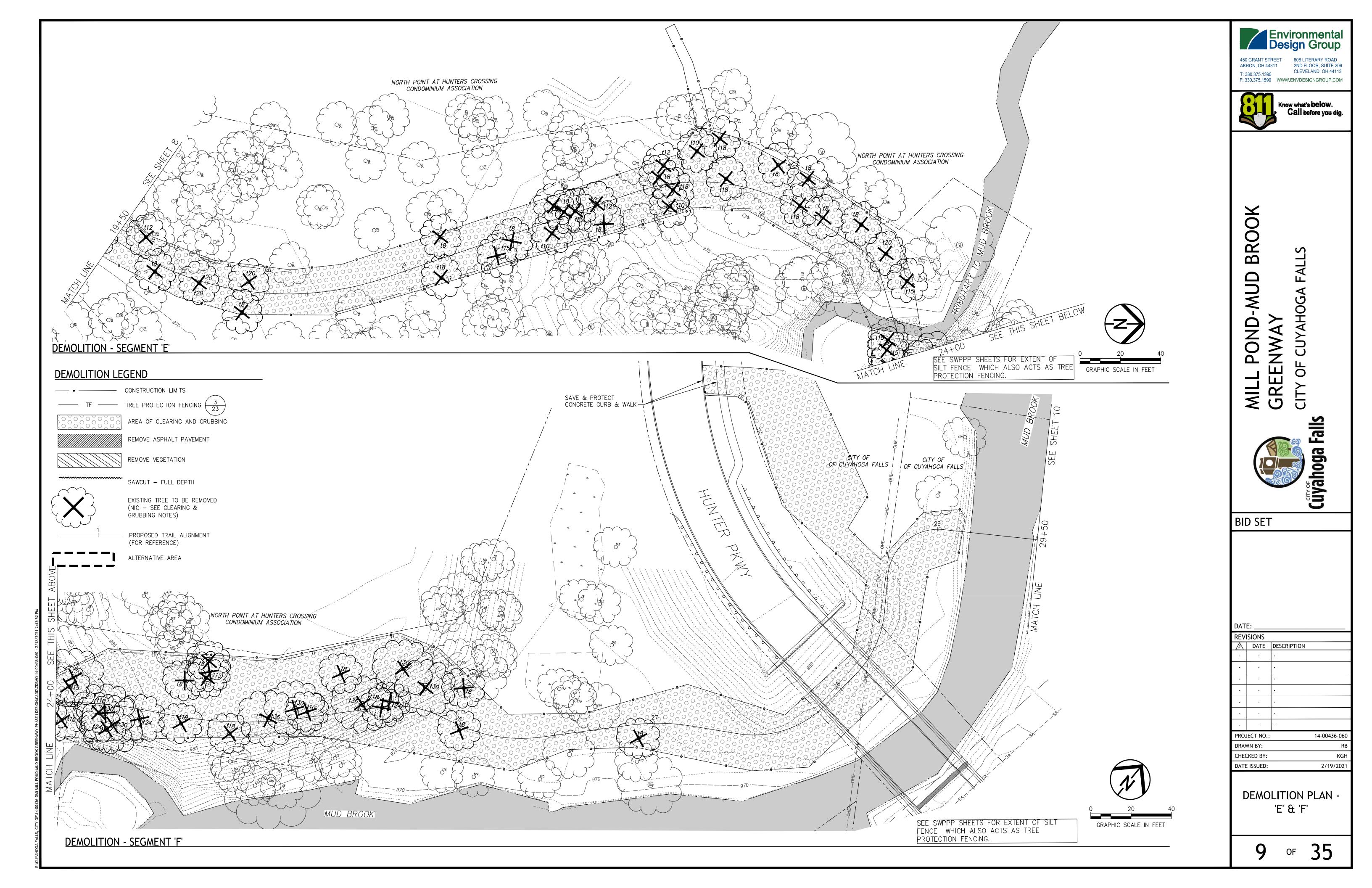
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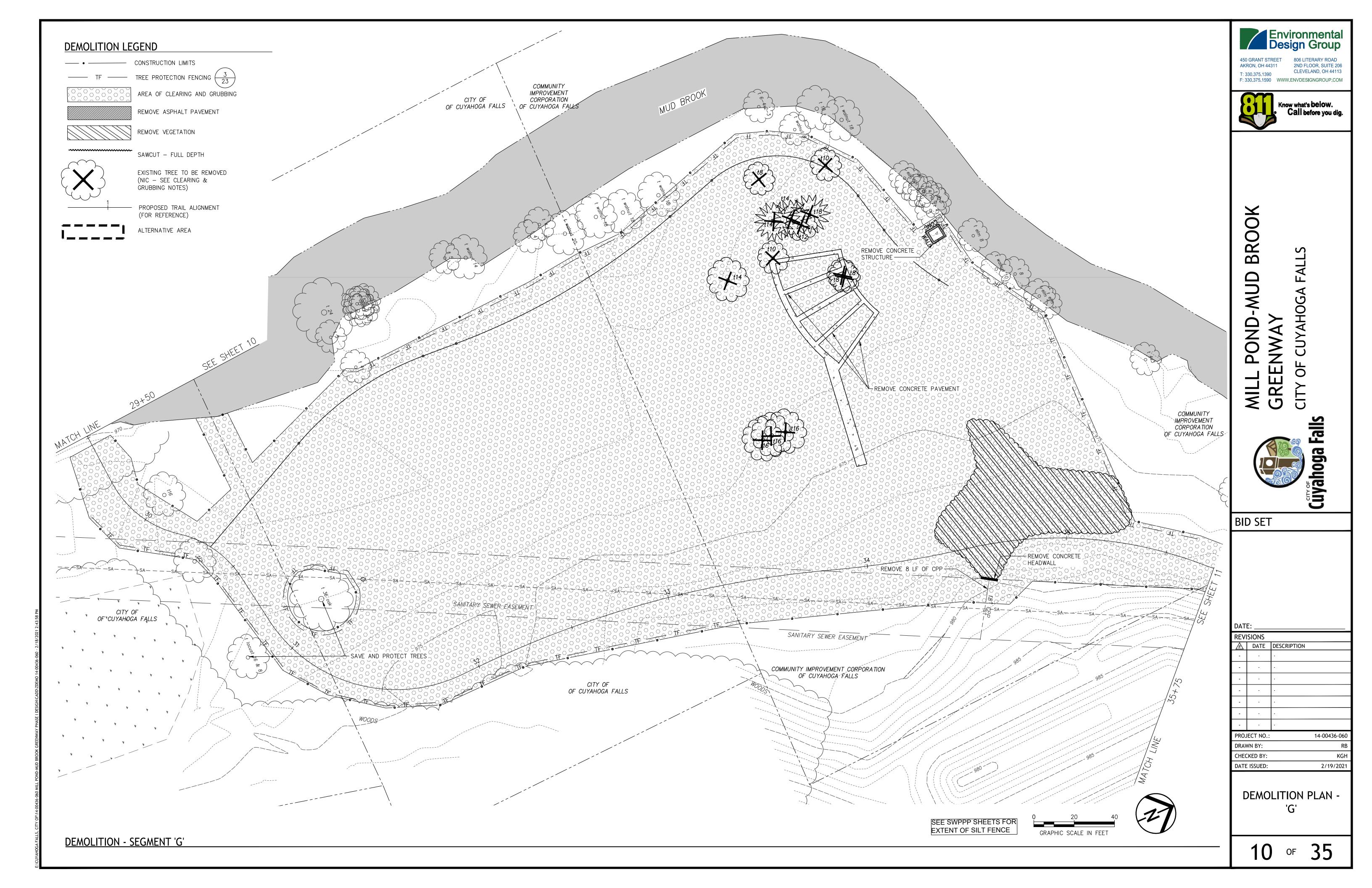
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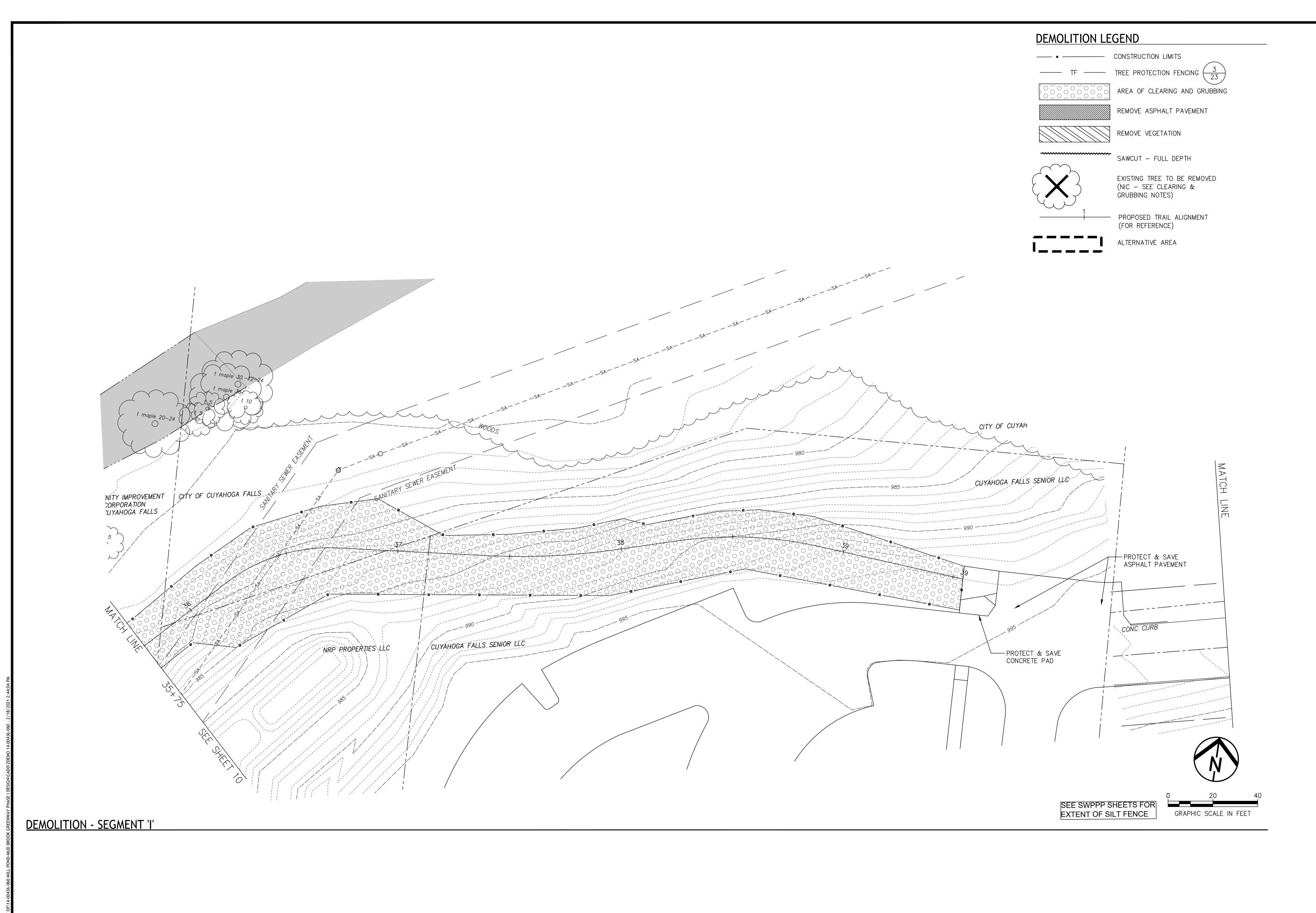
















MILL POND-MUD BROOK GREENWAY



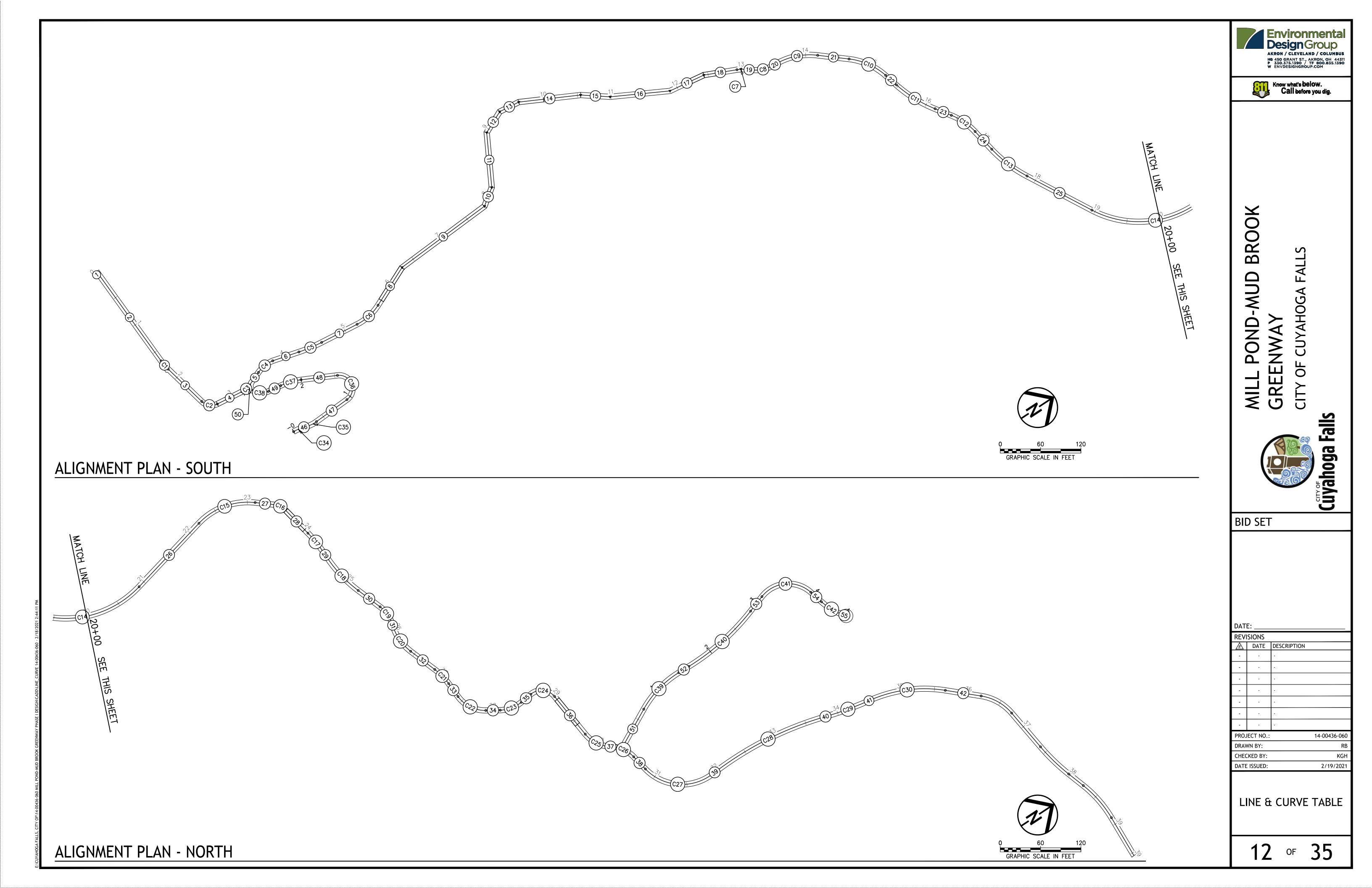
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DEMOLITION PLAN -'H'

1 of 3!



LINE TABLE				
MARK	DIRECTION	LENGTH	START POINT	END POINT
1	N 00°59'25" W	6.00'	N 545183.60 E 2242775.39	N 545189.60 E 2242775.29
2	N 89°05'59" E	159.95'	N 545189.60 E 2242775.29	N 545192.12 E 2242935.22
3	N 78°47'31" E	69.67	N 545193.82 E 2242951.30	N 545207.36 E 2243019.64
4	N 08°15'21" E	40.91	N 545224.11 E 2243035.54	N 545264.60 E 2243041.42
5	N 20°15'11" W	22.82	N 545279.64 E 2243039.92	N 545301.05 E 2243032.02
6	N 16°16'04" E	41.12'	N 545328.33 E 2243029.94	N 545367.80 E 2243041.46
7	N 07°51'12" E	59.17'	N 545403.68 E 2243049.12	N 545462.30 E 2243057.21
8	N 22°40'36" W	66.76	N 545504.07 E 2243051.77	N 545565.67 E 2243026.03
9	N 01°41′52″ W	152.54	N 545565.67 E 2243026.03	N 545718.15 E 2243021.51
10	N 34°04'17" W	30.00'	N 545718.15 E 2243021.51	N 545743.00 E 2243004.71
11	N 60°23'34" W	81.77	N 545743.00 E 2243004.71	N 545783.40 E 2242933.61
12	N 23°10'15" W	36.59	N 545783.40 E 2242933.61	N 545817.03 E 2242919.22
13	N 08°06'56" E	31.71'	N 545817.03 E 2242919.22	N 545848.42 E 2242923.69
14	N 28°23'37" E	92.59'	N 545848.42 E 2242923.69	N 545929.87 E 2242967.72
15	N 38°22'35" E	43.89	N 545929.87 E 2242967.72	N 545964.28 E 2242994.97
16	N 29°15'32" E	89.50'	N 545964.28 E 2242994.97	N 546042.36 E 2243038.71
17	N 09°50'04" E	55.52'	N 546042.36 E 2243038.71	N 546097.07 E 2243048.19
18	N 25°37'40" E	49.87	N 546097.07 E 2243048.19	N 546142.03 E 2243069.76
19	N 39°21'43" E	12.53'	N 546152.11 E 2243076.19	N 546161.80 E 2243084.13
20	N 06°14'20" E	9.20'	N 546188.08 E 2243095.18	N 546197.23 E 2243096.18

CURVE TABLE

15.28' N 05°39'51" W

27.71' N 04°22'29" W

36.72' N 12°03'38" E

42.63' N 07°24'42" W

11.99' N 32°29'41" E

28.91' N 22°48'01" E

61.75' N 23°55'47" E

60.50' N 58°57'13" E

67.79' N 66°34'34" E

43.09' N 69°12'30" E

66.10' N 72°05'02" E

194.76' N 25°25'14" E

92.20' N 14°38'18" E

17.25' N 60°49'05" E

34.80' N 85°34'09" E

65.71' N 81°08'30" E

28.97' N 88°19'34" E

43.16' N 88°26'12" E

N: 545192.12 N 545193.82 E 2242935.22 E 2242951.30

N: 545264.60 N 545279.64

E 2243041.42 | E 2243039.92

N: 545301.05 N 545328.33

E 2243032.02 | E 2243029.94

N: 545367.80 N 545403.68

E 2243041.46 | E 2243049.12

N: 545462.30 N 545504.07

E 2243057.21 | E 2243051.77

N: 546142.03 N 546152.11

E 2243069.76 | E 2243076.19

N: 546161.80 N 546188.08

E 2243084.13 | E 2243095.18

N: 546197.23 N 546252.78

E 2243096.18 | E 2243120.83

N: 546287.89 N 546318.62

E 2243152.03 | E 2243203.08

N: 546323.71 N 546350.53

E 2243223.94 | E 2243285.85

N: 546364.81 | N 546379.99

E 2243307.72 | E 2243347.69

N: 546385.29 N 546405.53

E 2243383.39 E 2243445.99

N: 546455.68 N 546619.49

E 2243542.82 | E 2243620.67

N: 546746.47 N 546832.55

E 2243594.20 | E 2243616.68

N: 546854.72 | N 546862.97

E 2243635.99 | E 2243650.76

N: 546870.96 N 546873.64

E 2243698.94 | E 2243733.59

N: 546873.52 N 546883.59

E 2243746.93 | E 2243811.57

N: 546896.32 N 546897.15

E 2243850.12 | E 2243878.67

N: 546894.73 N 546895.89

E 2243887.77 E 2243930.32

24.62' N 43°31'27" E N: 545207.36 N 545224.11 E 2243035.54

MARK RADIUS DEGREE OF CURVATURE LENGTH CHORD BRG START POINT END POINT

C1 | 90.00' | 063°39'43"

C3 30.00' 190°59'09"

C4 50.00' 114°35'30"

C5 | 250.00' | 022°55'06"

C6 80.00' 071°37'11"

C7 | 50.00' | 114°35'30"

C8 50.00' 114°35'30"

C9 | 100.00' | 057°17'45"

C10 | 100.00' | 057°17'45"

C11 200.00' 028°38'52"

C12 | 100.00' | 057°17'45"

C13 | 200.00' | 028°38'52"

C14 | 150.00' | 038°11'50"

C15 | 100.00' | 057°17'45"

C16 25.00' 229°10'59"

C17 | 200.00' | 028°38'52"

	LINE TABLE					
MARK	DIRECTION	LENGTH	START POINT	END POINT		
21	N 41°37'14" E	46.96	N 546252.78 E 2243120.83	N 546287.89 E 2243152.03		
22	N 76°17'13" E	21.48'	N 546318.62 E 2243203.08	N 546323.71 E 2243223.94		
23	N 56°51'54" E	26.12'	N 546350.53 E 2243285.85	N 546364.81 E 2243307.72		
24	N 81°33'05" E	36.09'	N 546379.99 E 2243347.69	N 546385.29 E 2243383.39		
25	N 62°36'59" E	109.05	N 546405.53 E 2243445.99	N 546455.68 E 2243542.8		
26	N 11°46'31" W	129.71	N 546619.49 E 2243620.67	N 546746.47 E 2243594.2		
27	N 41°03'08" E	29.40'	N 546832.55 E 2243616.68	N 546854.72 E 2243635.9		
28	N 80°35'03" E	48.84'	N 546862.97 E 2243650.76	N 546870.96 E 2243698.9		
29	S 89°26'44" E	13.34'	N 546873.64 E 2243733.59	N 546873.52 E 2243746.9		
30	N 71°43'44" E	40.59'	N 546883.59 E 2243811.57	N 546896.32 E 2243850.12		
31	S 75°04'37" E	9.41'	N 546897.15 E 2243878.67	N 546894.73 E 2243887.7		
32	N 71°57'01" E	44.86'	N 546895.89 E 2243930.32	N 546909.79 E 2243972.9		
33	N 88°56'31" E	23.59'	N 546914.69 E 2244002.11	N 546915.13 E 2244025.7		
34	N 33°53'34" E	21.38'	N 546937.24 E 2244066.28	N 546954.99 E 2244078.2		
35	N 05°09'08" W	18.50'	N 546987.36 E 2244086.50	N 547005.79 E 2244084.8		
36	N 85°43'17" E	72.12'	N 547032.96 E 2244107.87	N 547038.34 E 2244179.79		
37	N 37°46'42" E	2.35'	N 547057.57 E 2244215.58	N 547059.43 E 2244217.02		
38	N 80°58'03" E	25.05	N 547078.18 E 2244248.69	N 547082.11 E 2244273.4		
39	N 01°53'50" W	10.13'	N 547158.66 E 2244336.61	N 547168.79 E 2244336.2		
40	N 18°24'20" E	6.60'	N 547343.21 E 2244361.57	N 547349.47 E 2244363.6		

LINE TABLE					
MARK	DIRECTION	LENGTH	START POINT	END POINT	
41	N 11°07'58" E	4.17'	N 547410.80 E 2244379.83	N 547414.89 E 2244380.63	
42	N 43°48'38" E	53.97'	N 547514.73 E 2244432.54	N 547553.68 E 2244469.90	

CURVE TABLE						
MARK	RADIUS	DEGREE OF CURVATURE	LENGTH	CHORD BRG	START POINT	END POINT
C21	100.00'	057°17'45"	29.66'	N 80°26'46" E	N: 546909.79 E 2243972.97	N 546914.69 E 2244002.1
C22	50.00'	114°35'30"	48.04'	N 61°25'03" E	N: 546915.13 E 2244025.70	N 546937.24 E 2244066.2
C23	50.00'	114°35'30"	34.07'	N 14°22'13" E	N: 546954.99 E 2244078.21	N 546987.36 E 2244086.5
C24	25.00'	229°10'59"	39.65'	N 40°17'05" E	N: 547005.79 E 2244084.84	N 547032.96 E 2244107.8
C25	50.00'	114°35'30"	41.84	N 61°45'00" E	N: 547038.34 E 2244179.79	N 547057.5 ⁻⁷ E 2244215.5
C26	50.00'	114°35'30"	37.69'	N 59°22'23" E	N: 547059.43 E 2244217.02	N 547078.18 E 2244248.6
C27	75.00'	076°23'40"	108.47	N 39°32'06" E	N: 547082.11 E 2244273.42	N 547158.66 E 2244336.6
C28	500.00'	011°27′33″	177.17'	N 08°15'15" E	N: 547168.79 E 2244336.27	N 547343.2 E 2244361.5
C29	500.00'	011°27'33"	63.47'	N 14°46'09" E	N: 547349.47 E 2244363.66	N 547410.80 E 2244379.8
C30	200.00'	028°38'52"	114.07	N 27°28'18" E	N: 547414.89 E 2244380.63	N 547514.73 E 2244432.5

	LINE TABLE					
MARK	DIRECTION	LENGTH	START POINT	END POINT		
46	N 21°17'48" E	2.42'	N 545308.79 E 2243137.05	N 545311.05 E 2243137.93		
47	N 00°55'54" W	55.88'	N 545330.02 E 2243141.34	N 545385.89 E 2243140.43		
48	S 27°56'24" W	54.59'	N 545394.94 E 2243102.76	N 545346.71 E 2243077.19		
49	S 09°53'17" W	20.16	N 545317.03 E 2243067.02	N 545297.17 E 2243063.55		
50	S 71°22'19" W	6.18'	N 545277.77 E 2243046.91	N 545275.80 E 2243041.06		

LINE TABLE						
MARK	DIRECTION	LENGTH	START POINT	END POINT		
51	N 25°50'03" W	67.50'	N 547070.19 E 2244228.49	N 547130.95 E 2244199.07		
52	N 03°11'35" E	17.59'	N 547204.67 E 2244184.31	N 547222.23 E 2244185.29		
53	N 17°05'43" W	27.30'	N 547344.61 E 2244170.37	N 547370.71 E 2244162.35		
54	N 76°37'54" E	21.32'	N 547434.05 E 2244198.58	N 547438.98 E 2244219.32		
55	N 55°24'25" E	5.54'	N 547453.93 E 2244252.88	N 547457.08 E 2244257.44		

	CURVE TABLE								
MARK	RADIUS	DEGREE OF CURVATURE	START POINT	END POINT					
C34	65.29'	087°45'36"	15.52'	N 11°02'48" E	N: 545293.60 E 2243134.09	N 545308.79 E 2243137.05			
C35	50.00'	114°35'30"	19.40'	N 10°10'57" E	N: 545311.05 E 2243137.93	N 545330.02 E 2243141.34			
C36	20.00'	286°28'44"	52.75'	N 76°29'45" W	N: 545385.89 E 2243140.43	N 545394.94 E 2243102.76			
C37	100.00'	057°17'45"	31.51'	S 18°54'51" W	N: 545346.71 E 2243077.19	N 545317.03 E 2243067.02			
C38	25.00'	229°10'59"	26.83'	S 40°37'48" W	N: 545297.17 E 2243063.55	N 545277.77 E 2243046.91			

	CURVE TABLE						
MARK	RADIUS	DEGREE OF CURVATURE	LENGTH	CHORD BRG	START POINT	END POINT	
C39	150.00'	038°11'50"	75.99	N 11°19'14" W	N: 547130.95 E 2244199.07	N 547204.67 E 2244184.31	
C40	350.00'	016°22'13"	123.93'	N 06°57'04" W	N: 547222.23 E 2244185.29	N 547344.61 E 2244170.37	
C41	50.00'	114°35'30"	81.79	N 29°46'06" E	N: 547370.71 E 2244162.35	N 547434.05 E 2244198.58	
C42	100.00'	057°17'45"	36.95'	N 65°59'35" E	N: 547438.98 E 2244219.32	N 547453.93 E 2244252.88	





POND-MUD BROOK MILL POND-GREENWAY

OF

CUYAHOGA

uyahoga Falls BID SET

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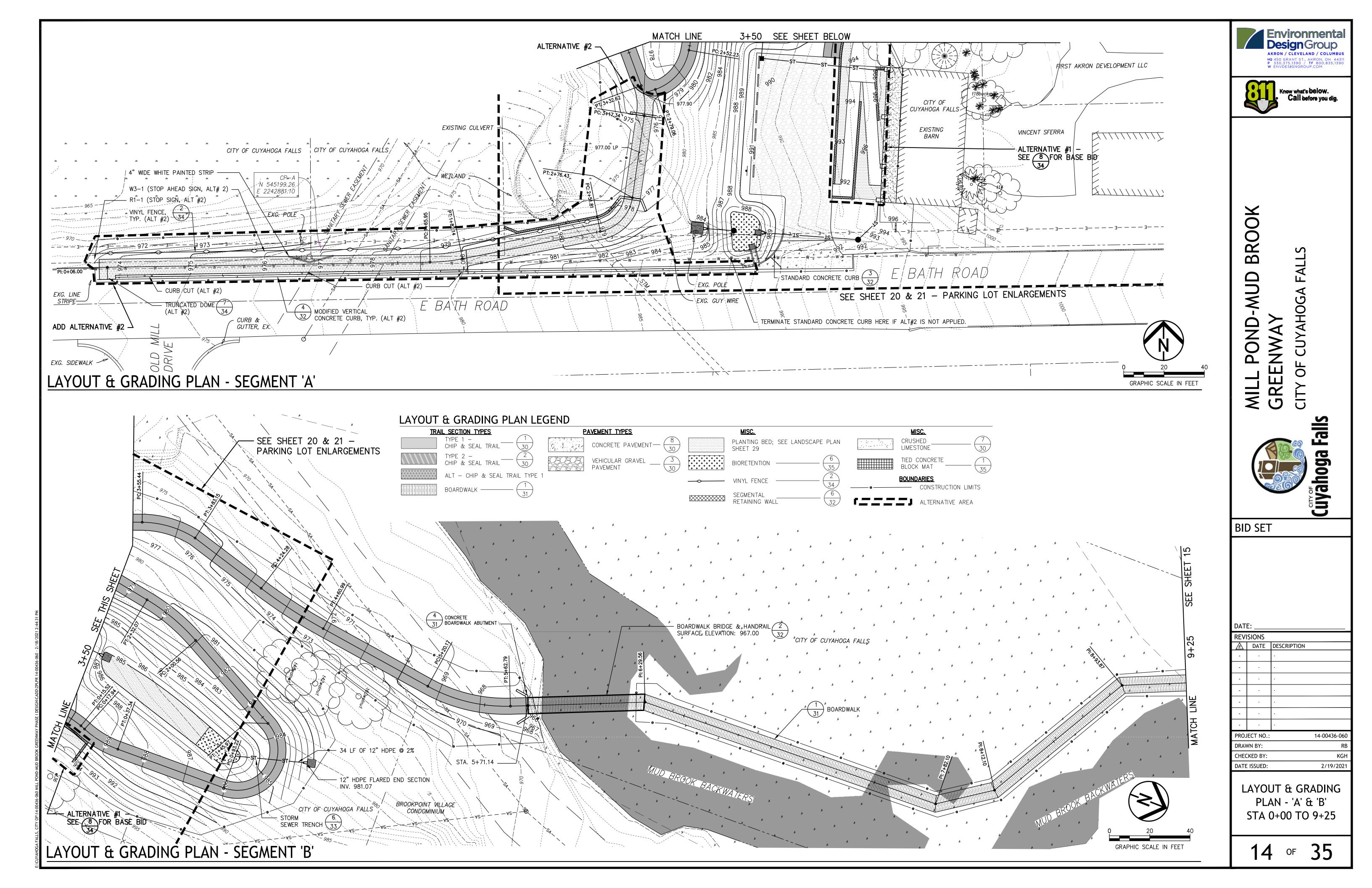
LINE & CURVE TABLE

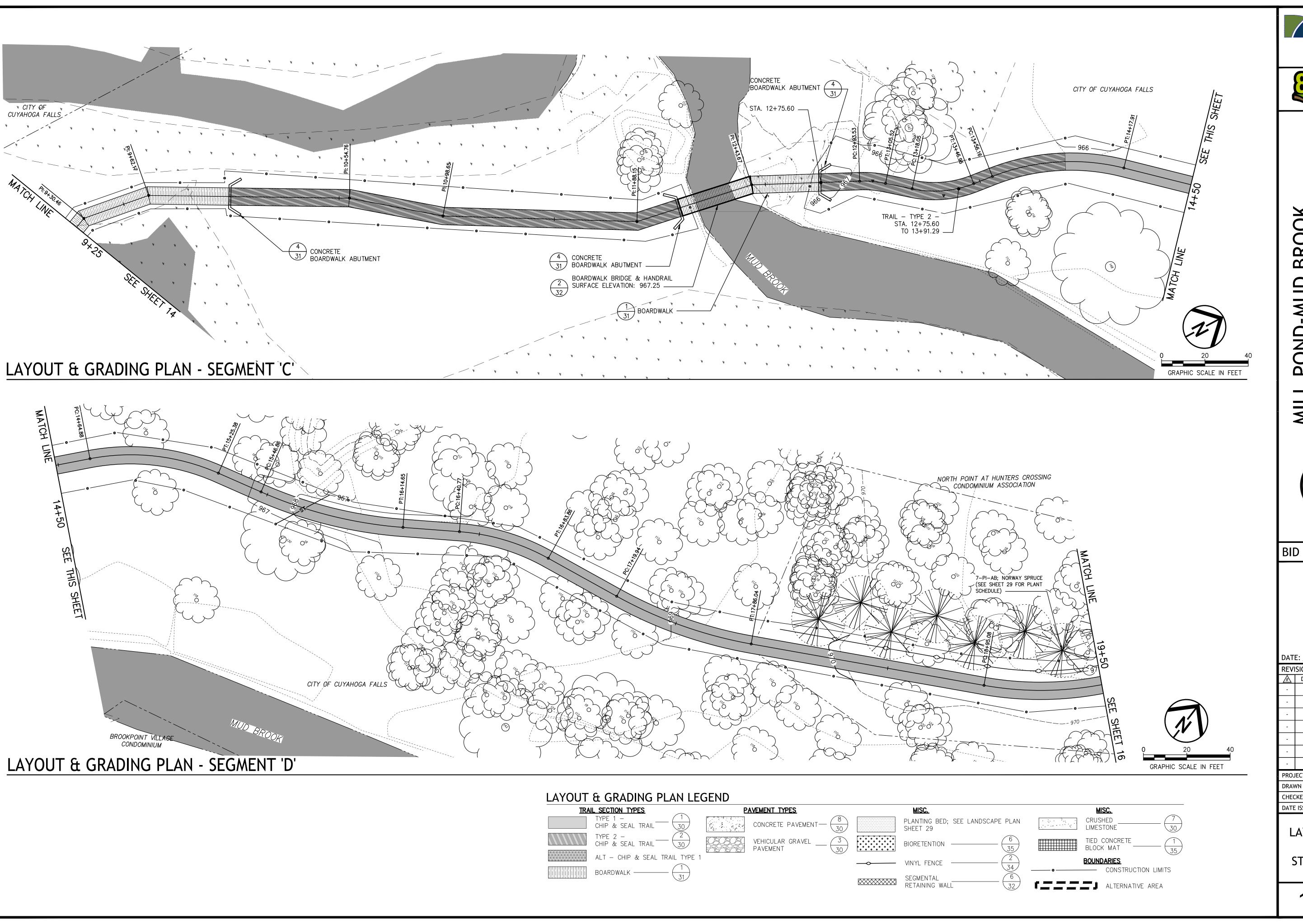
GRAPHIC SCALE IN FEET

C18 | 200.00' | 028°38'52" C19 | 50.00' | 114°35'30" C20 75.00' 076°23'40"

13 of 35

DATE ISSUED:









MILL POND-MUD BROOK GREENWAY

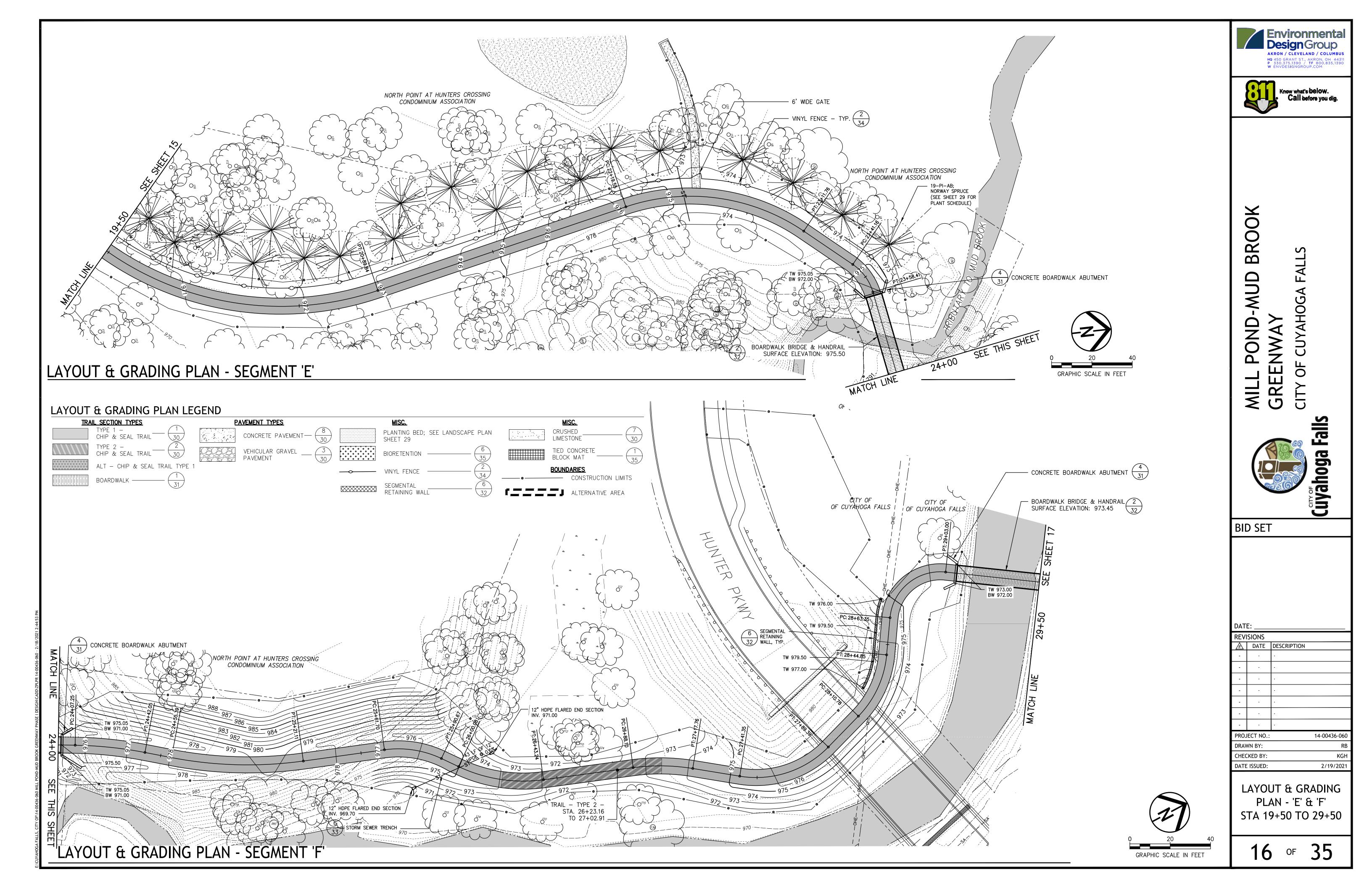
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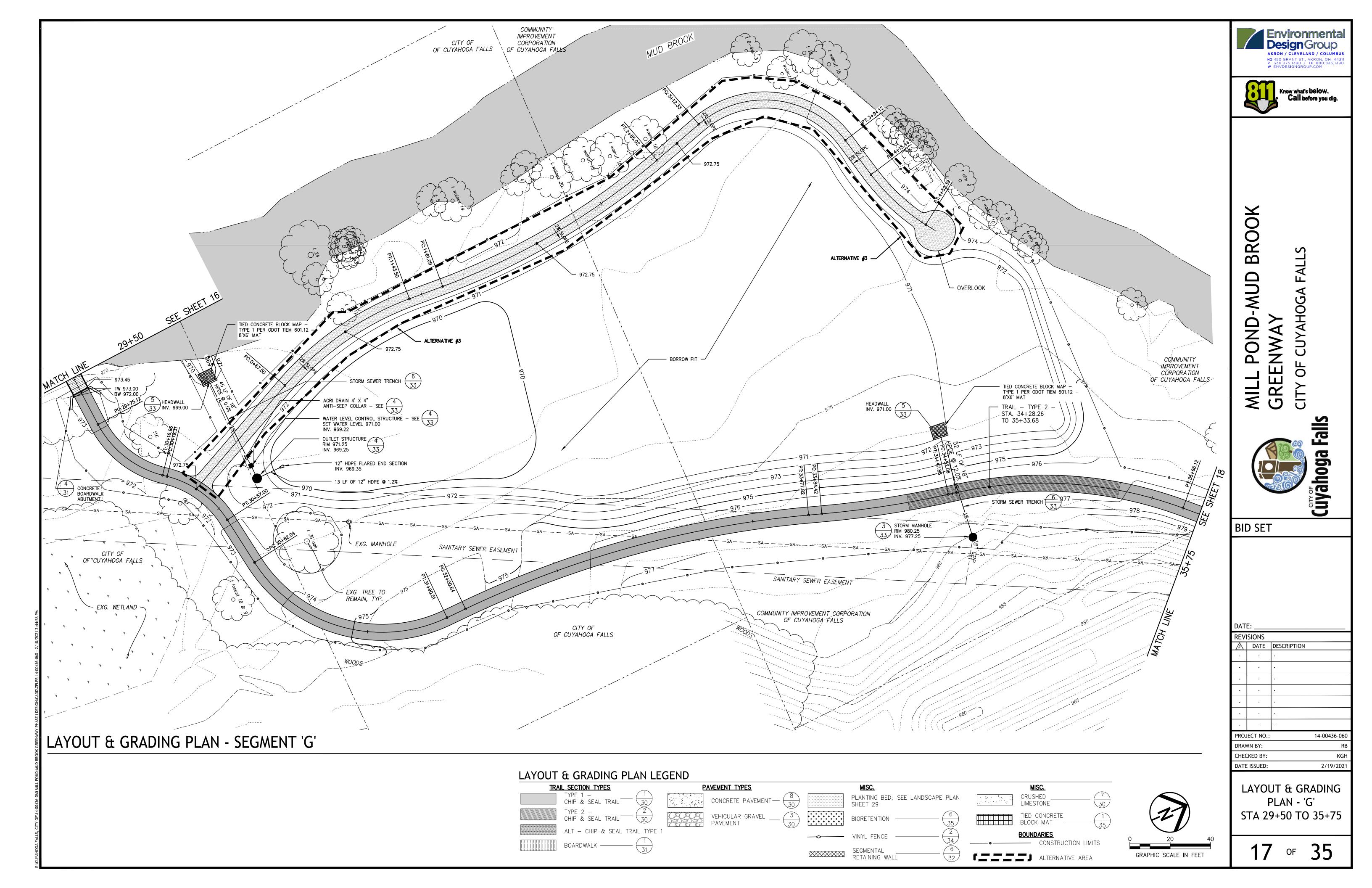
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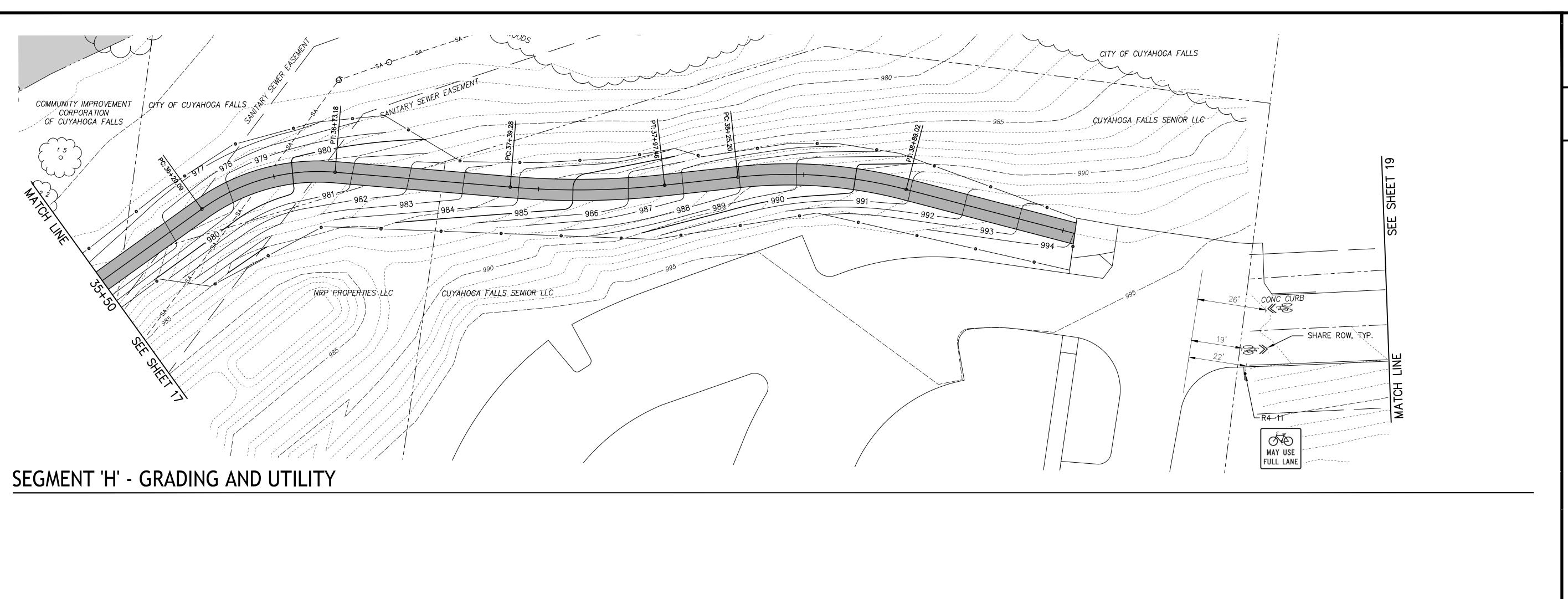
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DRAWN BY: RB
CHECKED BY: KGH
DATE ISSUED: 2/19/2021

LAYOUT & GRADING PLAN - 'C' & 'D' STA 9+25 TO 19+50

15 of 35











POND-MUD BROOK MILL POND-GREENWAY

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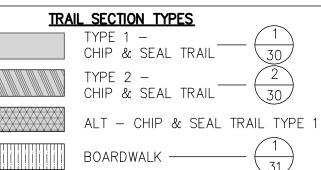
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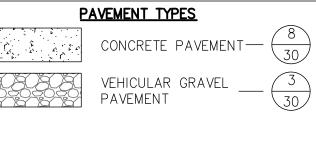
LAYOUT & GRADING PLAN - 'H' STA 35+75 TO 39+55.18

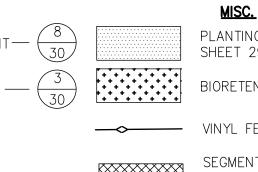
18 of 35

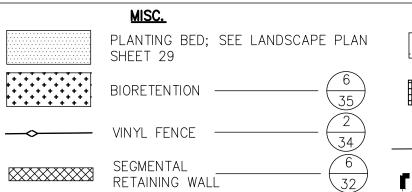
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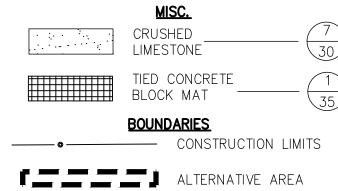
LAYOUT & GRADING PLAN LEGEND

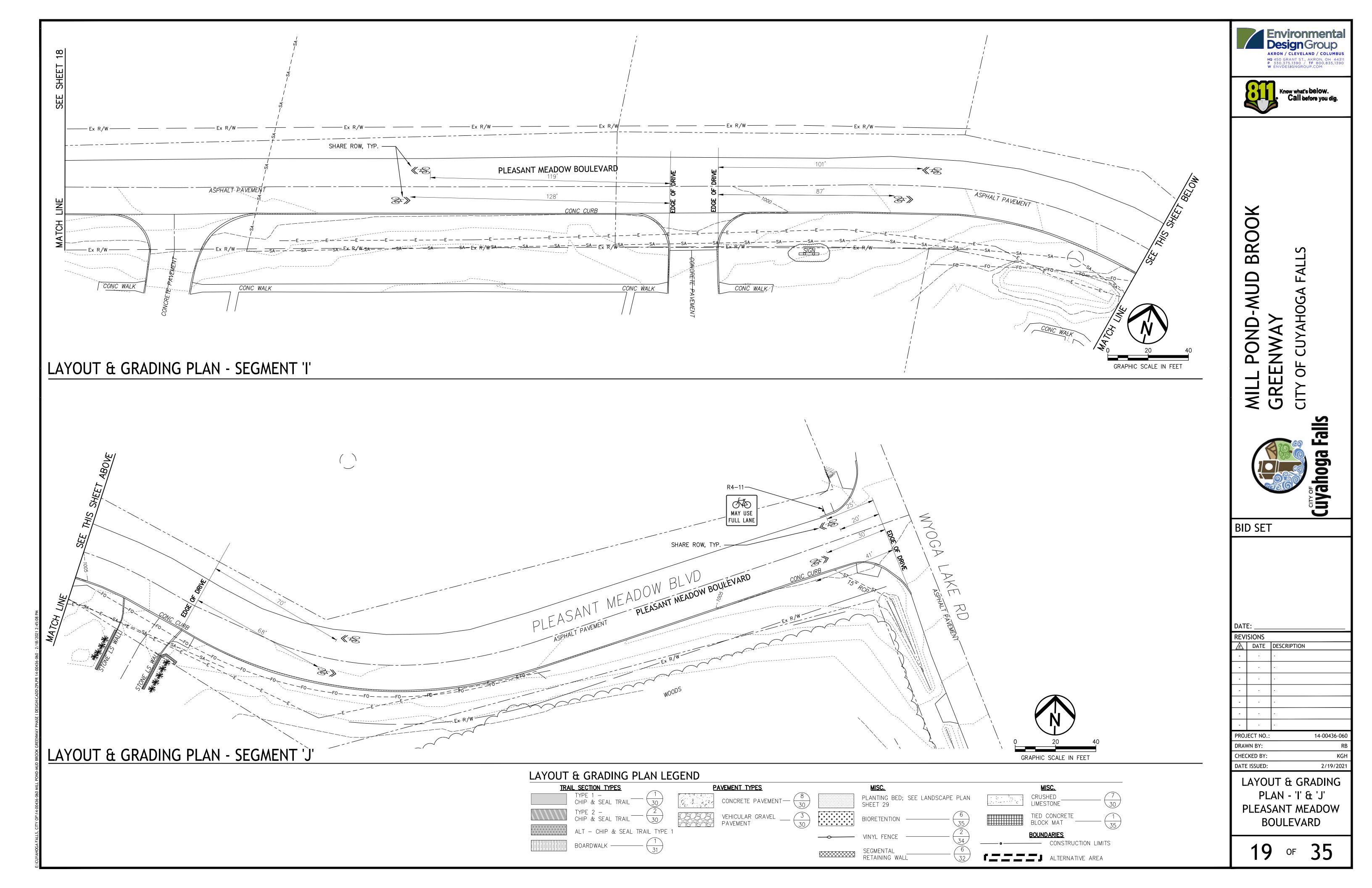


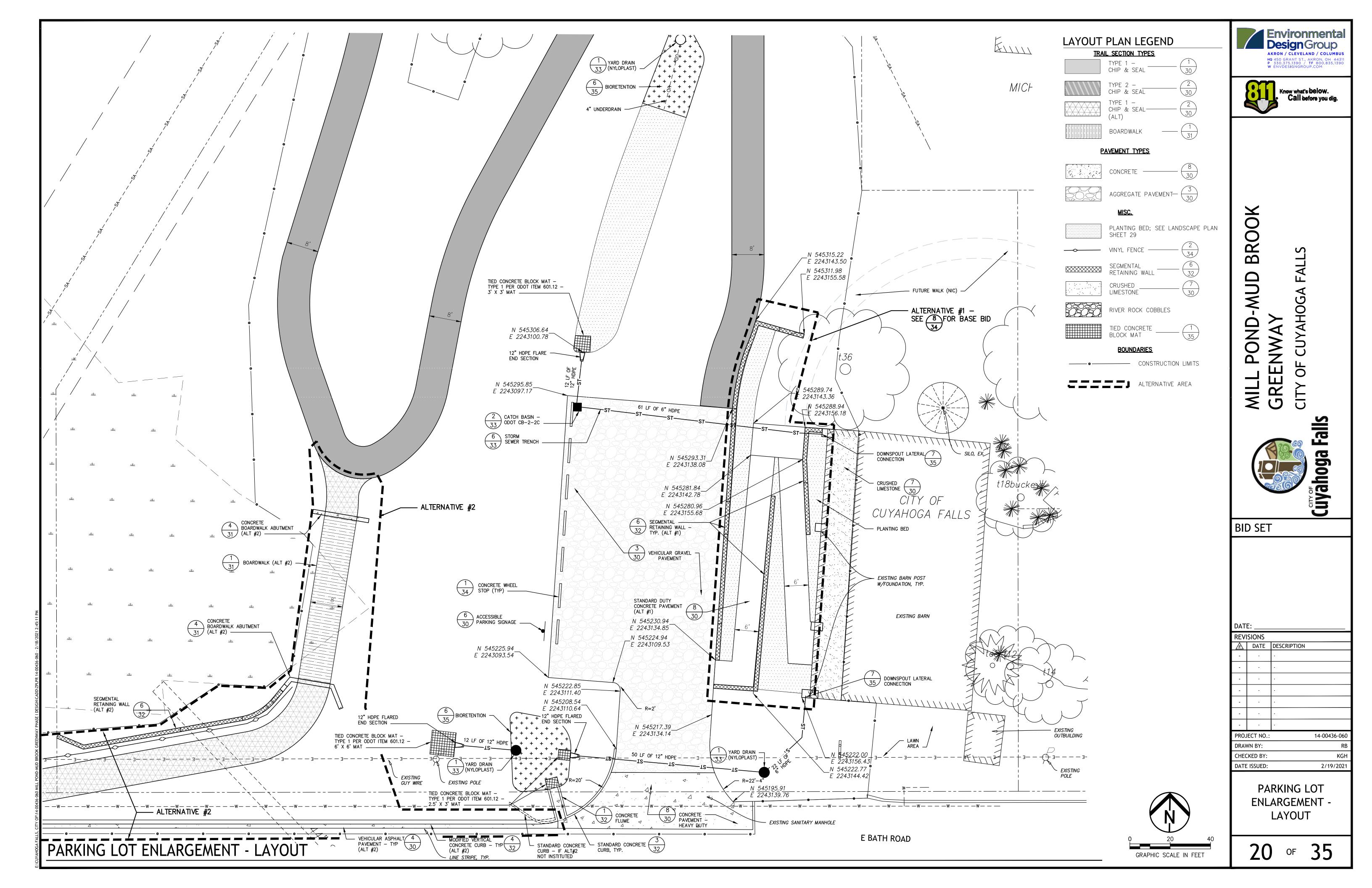


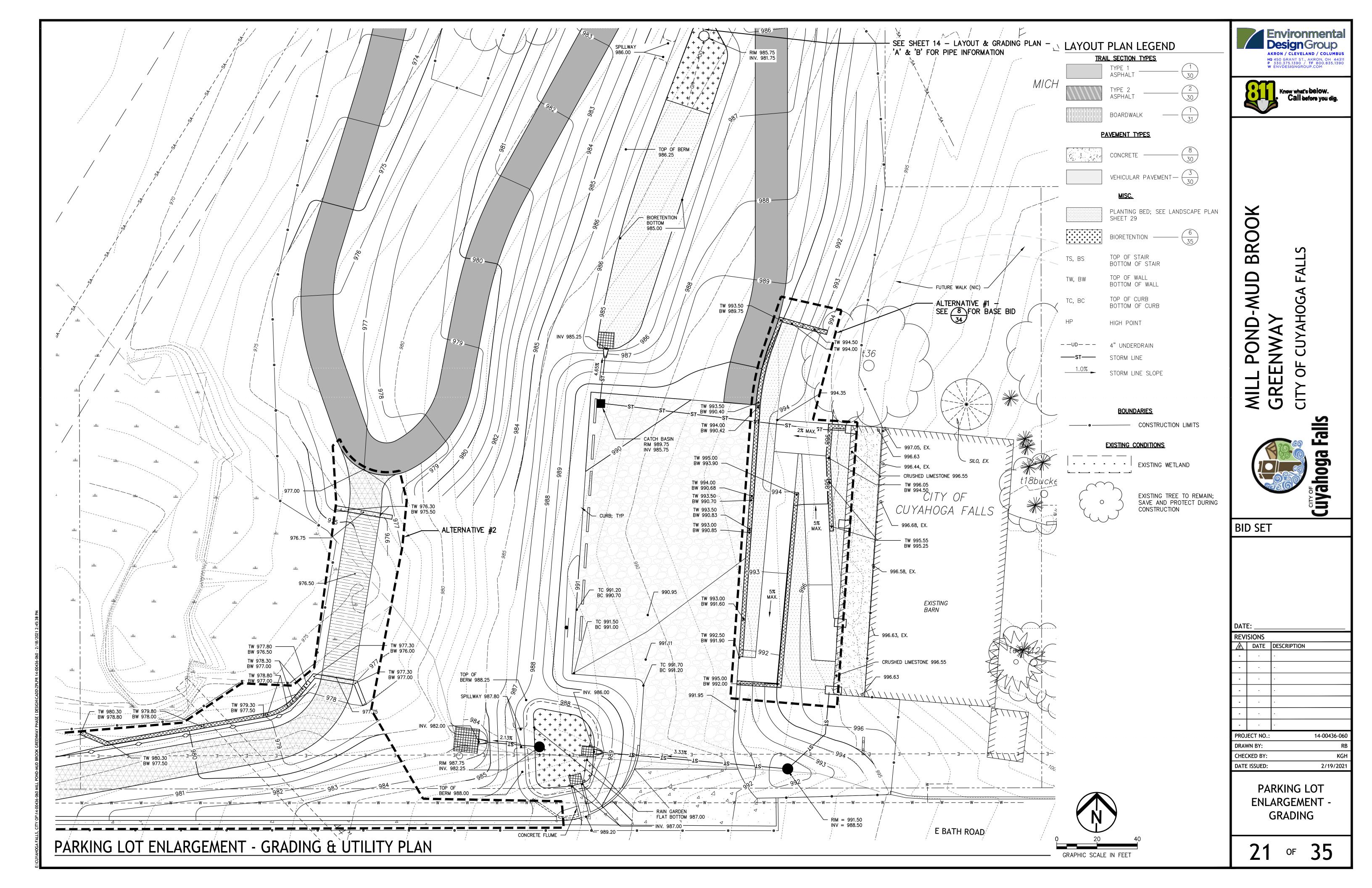












STORMWATER POLLUTION PREVENTION PLAN NOTES

- 1. CONSTRUCT IN ACCORDANCE WITH THESE PLANS, THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD CONSTRUCTION DRAWING DM-4.4 AND THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (2006). THE IMPLEMENTATION OF SOIL EROSION AND SEDIMENT CONTROL SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) UNDER NPDES PERMIT #OHCOOOOO5. IF CONFLICTS EXIST REGARDING THE SOIL AND SEDIMENT CONTROL PRACTICES, THE MORE RESTRICTIVE SHALL APPLY.
- 2. STABILIZATION OF DISTURBED AREAS DISTURBED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN FOURTEEN (14) DAYS. FOR AREAS WITHIN FIFTY (50) FEET OF ANY LIVE STREAM, SOIL STABILIZATION PRACTICES SHALL BE INITIATED WITHIN TWO (2) DAYS ON ALL INACTIVE, DISTURBED AREAS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USED.
- 3. INSTALL ALL EROSION AND SEDIMENT CONTROL ITEMS BEFORE ANY CLEARING AND GRUBBING OR EARTHWORK IS BEGUN.
- 4. PROTECT UNDISTURBED AREAS THROUGHOUT CONSTRUCTION. DO NOT STORE EQUIPMENT, VEHICLES OR MATERIALS IN THESE PROTECTED
- 5. SEEDING AND FERTILIZER FOR PERMANENT COVER SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- 6. MULCHING SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- 7. TOPSOILING SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- 8. EXCELSIOR MATTING/EROSION CONTROL BLANKETS WILL BE USED ON TEMPORARY DIVERSION CHANNELS AND DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES STEEPER THAN 6%. EXCELSIOR MATTING/EROSION BLANKETS SHALL BE AS SPECIFIED IN THE GENERAL
- 9. SILT FENCE AND/OR SILT SOCK SHALL BE AS DETAILED ON THE DRAWINGS.
- 10. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORMWATER RUNOFF.
- 11. OFF-SITE VEHICLE TRACKING OF SEDIMENTS WILL BE MINIMIZED. ALL OFF-SITE TRACKING OF SEDIMENT SHALL BE CLEANED UP AS IT OCCURS.
- 12. SEDIMENT TRAPS AND BASINS WILL BE USED FOR TEMPORARY EROSION CONTROL.
- 13. OTHER EROSION CONTROL AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- 14. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH SUMMIT S.W.C.D. (330-929-2871) AND CITY OF CUYAHOGA FALLS ENGINEERING DEPARTMENT PRIOR TO BEGINNING WORK.
- 15. TRUCK WASHOUT AND DISCHARGE OF SURPLUS WASH WATER ON SITE IS PERMITTED EXCLUSIVELY IN THE DESIGNATED AREA.
- 16. WINTERIZATION ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.
- 17. TRENCH WATER MUST BE PUMPED THROUGH A SEDIMENT SETTLING FACILITY OR EQUALLY EFFECTIVE DEVICE PRIOR TO DISCHARGE FROM THE SITE.
- 18. STAGING, STORAGE, FUELING AND VEHICLE PARKING ARE SHOWN ON THE SWPP PLAN. IF THE CONTRACTOR WANTS TO UTILIZE A DIFFERENT LOCATION FOR THESE FUNCTIONS, HE SHALL REVISE THE SWPP PLAN AND SUBMIT IT TO SUMMIT S.W.C.D. AND CITY OF CUYAHOGA FALL'S ENGINEERING DEPARTMENT FOR APPROVAL.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES.
- 20. DISTURBED AREAS REMAINING DORMANT FOR OVER A YEAR AT THE FINAL GRADE WILL HAVE A PERMANENT COVER APPLIED WITHIN 7 DAYS OF LAST DISTURBANCE.

PERMANENT RECORDS OF MAINTENANCE AND INSPECTION MUST BE MAINTAINED THROUGHOUT CONSTRUCTION A MINIMUM OF ONCE EVERY 7 DAYS AND AFTER STORM EVENTS GREATER THAN 0.5 INCH IN A 24 HOUR PERIOD. PROVIDE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTION, CERTIFICATION OF COMPLIANCE AND CORRECTIVE MEASURES TAKEN.

ANY EROSION CONTROL MEASURES, STRUCTURES, DEVICES, OR RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 7 DAYS.

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING PRACTICES SHALL BE EXECUTED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUN-OFF. THE JOB SITE SUPERINTENDENT IS RESPONSIBLE FOR ENSURING THESE PRACTICES ARE FOLLOWED:

- 1. STORE THE MINIMUM AMOUNT OF PRODUCT REQUIRED TO COMPLETE THE JOB, IF POSSIBLE, UNDER ROOF OR IN A CONTAINMENT AREA. PRODUCTS SHALL REMAIN IN THEIR ORIGINAL CONTAINER. LABEL MUST BE LEGIBLE
- 2. MANUFACTURER'S RECOMMENDATION SHALL BE FOLLOWED FOR USE AND DISPOSAL.
- 3. PRODUCT TO BE USED ENTIRELY (WHEN POSSIBLE) PRIOR TO DISPOSING.
- 4. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES USED ON THE SITE SHALL BE OBTAINED AND POSTED IN THE IMMEDIATE AREA OF PRODUCT STORAGE AND SHALL BE USED FOR PROPER MANAGEMENT OF POTENTIAL WASTE.
- 5. ALL HAZARDOUS WASTE MATERIAL WILL BE DISPOSED BY THE CONTRACTOR IN A MANNER SPECIFIED BY LOCAL, STATE OR FEDERAL REGULATIONS AND PER MANUFACTURERS RECOMMENDATIONS.
- 6. ALL PERSONNEL SHALL BE TRAINED IN THE PROPER HANDLING AND CLEAN UP OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR WASTE SHALL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF NECESSARY, THE CONTAMINATED STORMWATER WILL BE HELD ON SITE UNTIL IT MEETS LOCAL, STATE AND FEDERAL REGULATIONS.
- 7. IN THE EVENT OF A SPILL THE FOLLOWING PROCEDURES MUST BE FOLLOWED:
- A. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- B. THE PROJECT MANAGER AND ENGINEER OF RECORD IMMEDIATELY NOTIFIED.
- C. ANY SPILLS OF TOXIC OR HAZARDOUS MATERIALS MUST BE REPORTED TO THE APPROPRIATE LOCAL, STATE AND FEDERAL AGENCY. THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) MUST BE NOTIFIED WHEN A SPILL EXCEEDS THE REPORTABLE QUANTITY OF A SUBSTANCE. THE SUBSTANCES AND AMOUNTS ARE LOCATED IN FEDERAL REGULATIONS (40 CFR 110, 114 AND 302).
- D. IF A SPILL EXCEEDS A REPORTABLE QUANTITY, THE SWPP PLAN MUST BE MODIFIED WITHIN 7 DAYS PROVIDING A DESCRIPTION, DATE AND INCIDENT OF THE RELEASE.

PRODUCT SPECIFIC PRACTICES:

- 1. PETROLEUM PETROLEUM PRODUCTS WILL BE STORED IN CLEARLY LABELED TIGHTLY SEALED CONTAINERS. ANY ON SITE PETROLEUM STORAGE TANKS WILL HAVE A CONTAINMENT STRUCTURE AROUND IT FOR POTENTIAL SPILLS. DRIP PANS SHALL BE PROVIDED FOR ALL DISPENSERS. MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED WHEN ANY ASPHALT SUBSTANCES ARE USED ON SITE.
- FERTILIZERS THE MANUFACTURER'S RECOMMENDED MINIMAL AMOUNTS SHALL BE APPLIED AND WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. THE CONTENTS OF ANY PARTIALLY USED BAGS WILL BE TRANSFERRED TO SEALABLE PLASTIC BINS AND STORED UNDER COVER, AWAY FROM STORMWATER DRAINAGE WAYS.

SITE LOCATION INFORMATION		LATITUDE:		41°01'19"N	
		LONGITUDE:		81°38'45"V	
CITY OF CUYAHOGA FALLS		SUMMIT		ОН	
CITY, VILLAGE, TOWNSHIP		COUNTY		STATE	
MUD BROOK/CUYAHOGA RIVER		· · · · · · · · · · · · · · · · · · ·			
NAME OF WATERSHED/IMMEDIATE RECEIVING WATER(S)					
225 E BATH ROAD, CUYAHOGA FALLS, OH 44223					
SITE ADDRESS					
CITY OF CUYAHOGA FALLS		330-97	71.	-8180	
DEVELOPER		PH(٩C	1E	
2310 2ND STREET, CUYAHOGA FALLS, OH 44221					

DEVELOPER ADDRESS

HYDROLOGIC SOIL GROUPS: |CnC - CHILI LOAM, 6 TO 12 PERCENT SLOPES HYDROLOGIC GROUP C Le - LOBDELL SILT LOAM |Ho - HOLLY SILT LOAM EIC2 - ELLSWORTH SILT LOAM, 6 TO 12 PERCENT SLOPES

MgB - MAHONING SILT LOAM, 2 TO 6 PERCENT SLOPES

		S	ITE DESCRIPTION					
	MAR	MARK ONE TOTAL AREA						
1			AREA TO BE CLEARED	_	5.49 AC			
1	SUBDIVISION	_	PRE-DEV IMPERVIOUSNESS	_	0.30%			
	COMMERCIAL	_	POST DEV IMPERVIOUSNESS	_	2.90%			
	RESIDENTIAL	_	PRE-DEV RUNOFF COEFFICIENT	_	0.2518			
	PUD	_	POST-DEV RUNOFF COEFFICIENT	_	0.2692			
	OTHER	TRAIL	PRE-DEV CURVE NO.	_	70			
			POST-DEV CURVE NO.	_	7			
- 1	<u> </u>	•	·					

GRAPHIC SCALE IN FEET





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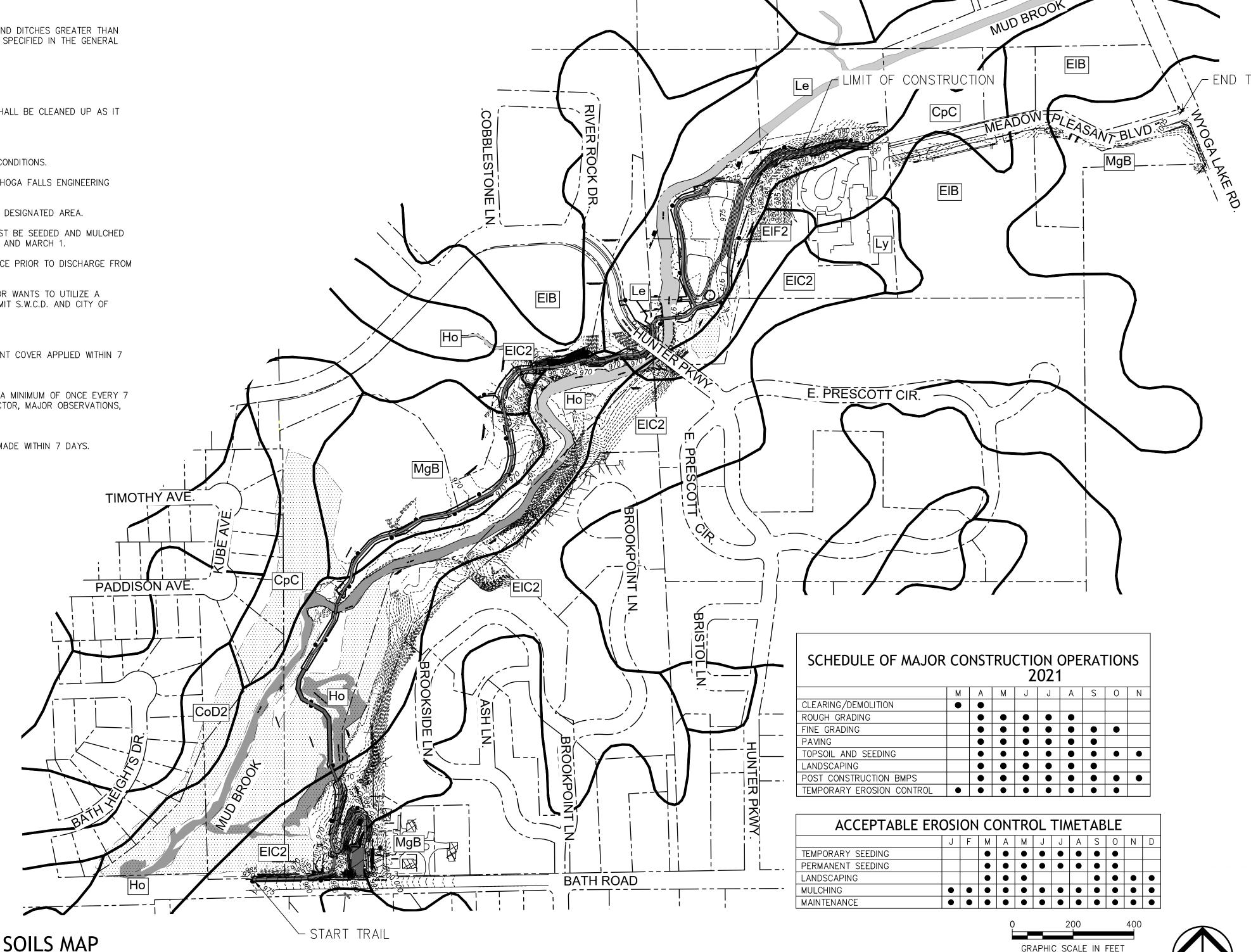


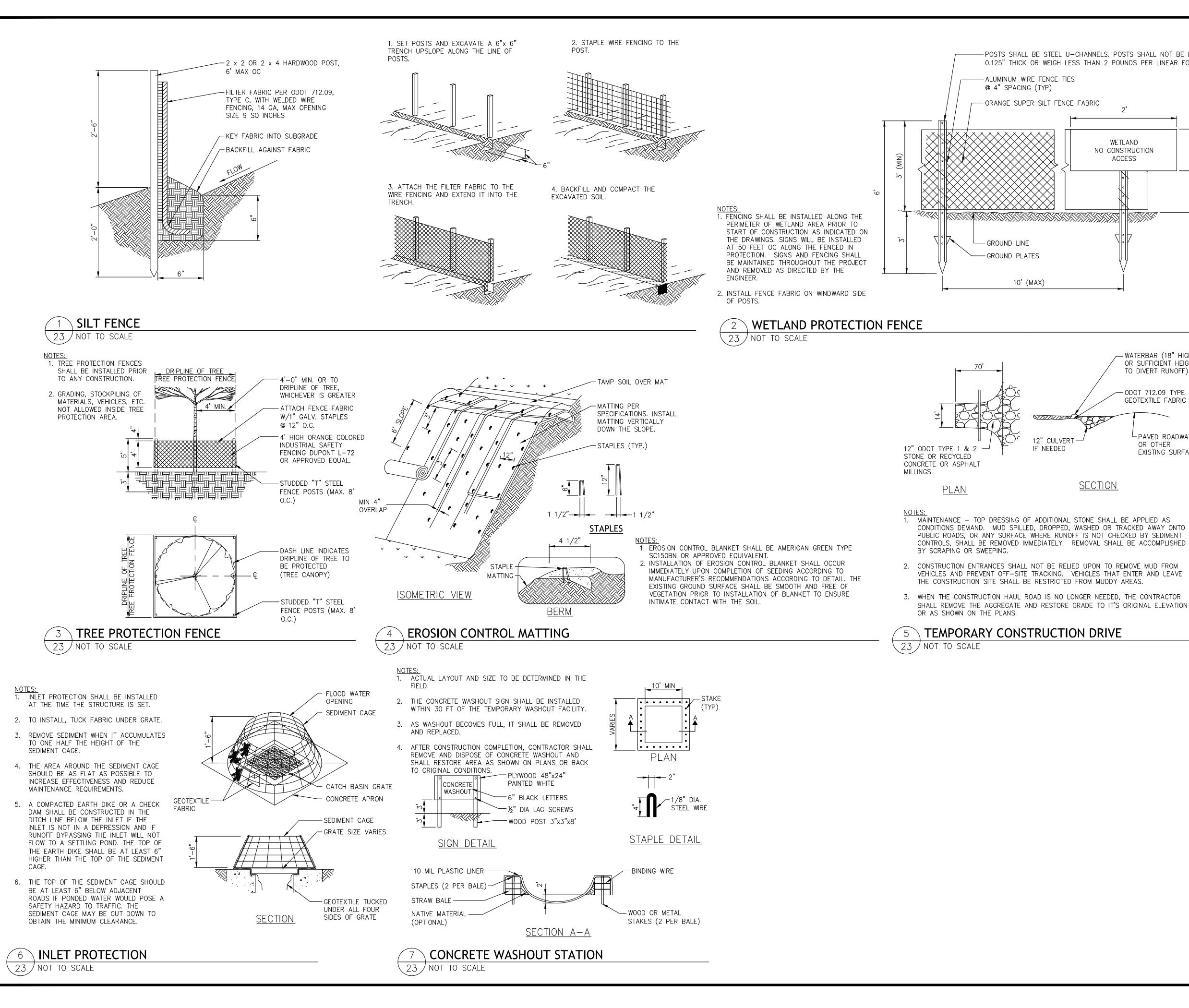
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PROJECT NO.: 14-00436-060 DRAWN BY: CHECKED BY: DATE ISSUED: 2/19/2021

SWPPP NOTES







-POSTS SHALL BE STEEL U—CHANNELS. POSTS SHALL NOT BE LESS THAN

WETLAND

NO CONSTRUCTION ACCESS

- WATERBAR (18" HIGH OR SUFFICIENT HEIGHT

TO DIVERT RUNOFF)

-ODOT 712.09 TYPE B

-PAVED ROADWAY

EXISTING SURFACE

GEOTEXTILE FABRIC

OR OTHER

0.125" THICK OR WEIGH LESS THAN 2 POUNDS PER LINEAR FOOT

- ALUMINUM WIRE FENCE TIES

---- ORANGE SUPER SILT FENCE FABRIC

@ 4" SPACING (TYP)

- GROUND PLATES

10' (MAX)

WINDING TO DO

SECTION

12" CULVERT -

IF NEEDED



BROOI

OND-WND MILL PON GREENW

BID SET

Falls .uyahoga

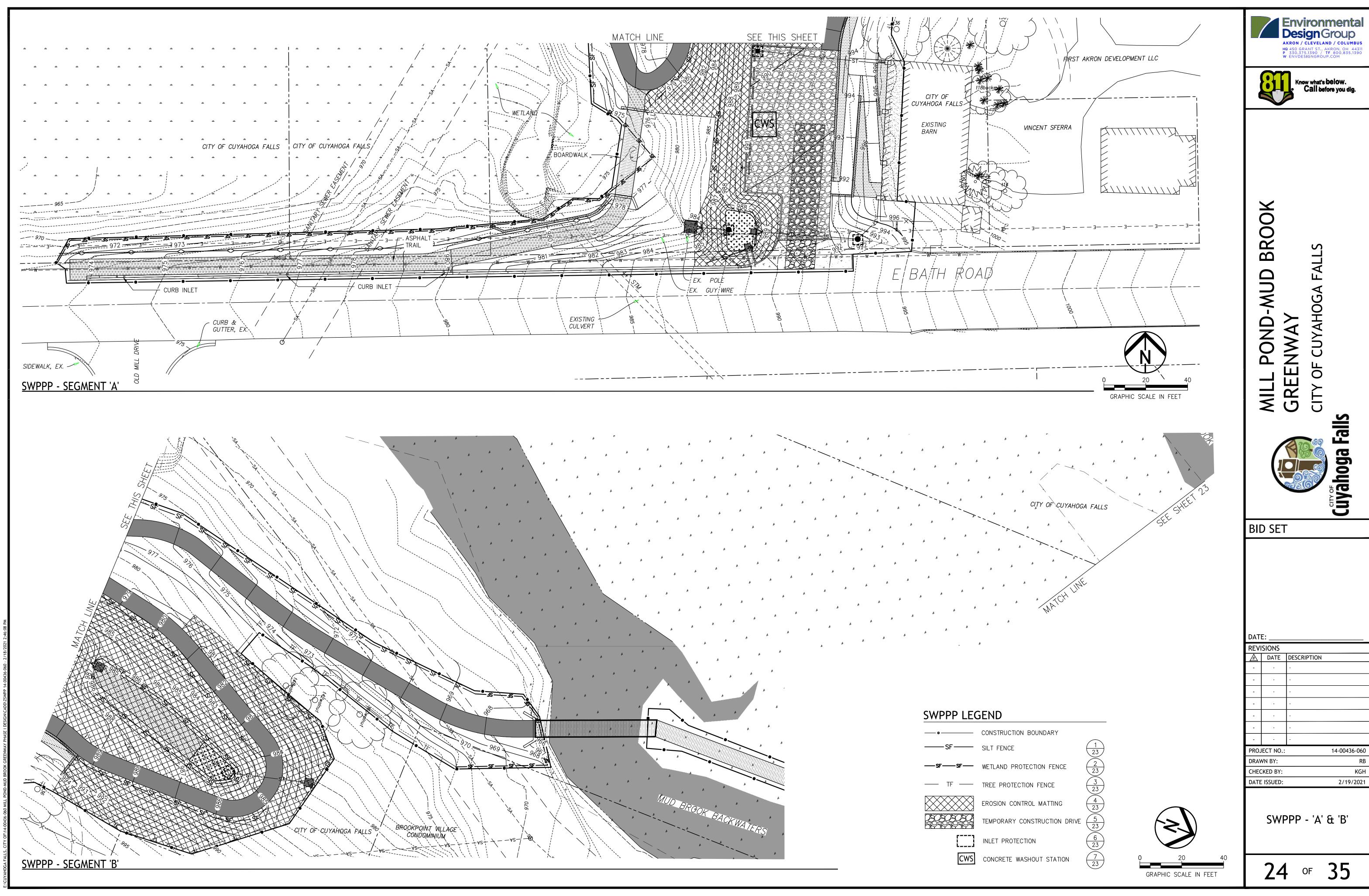
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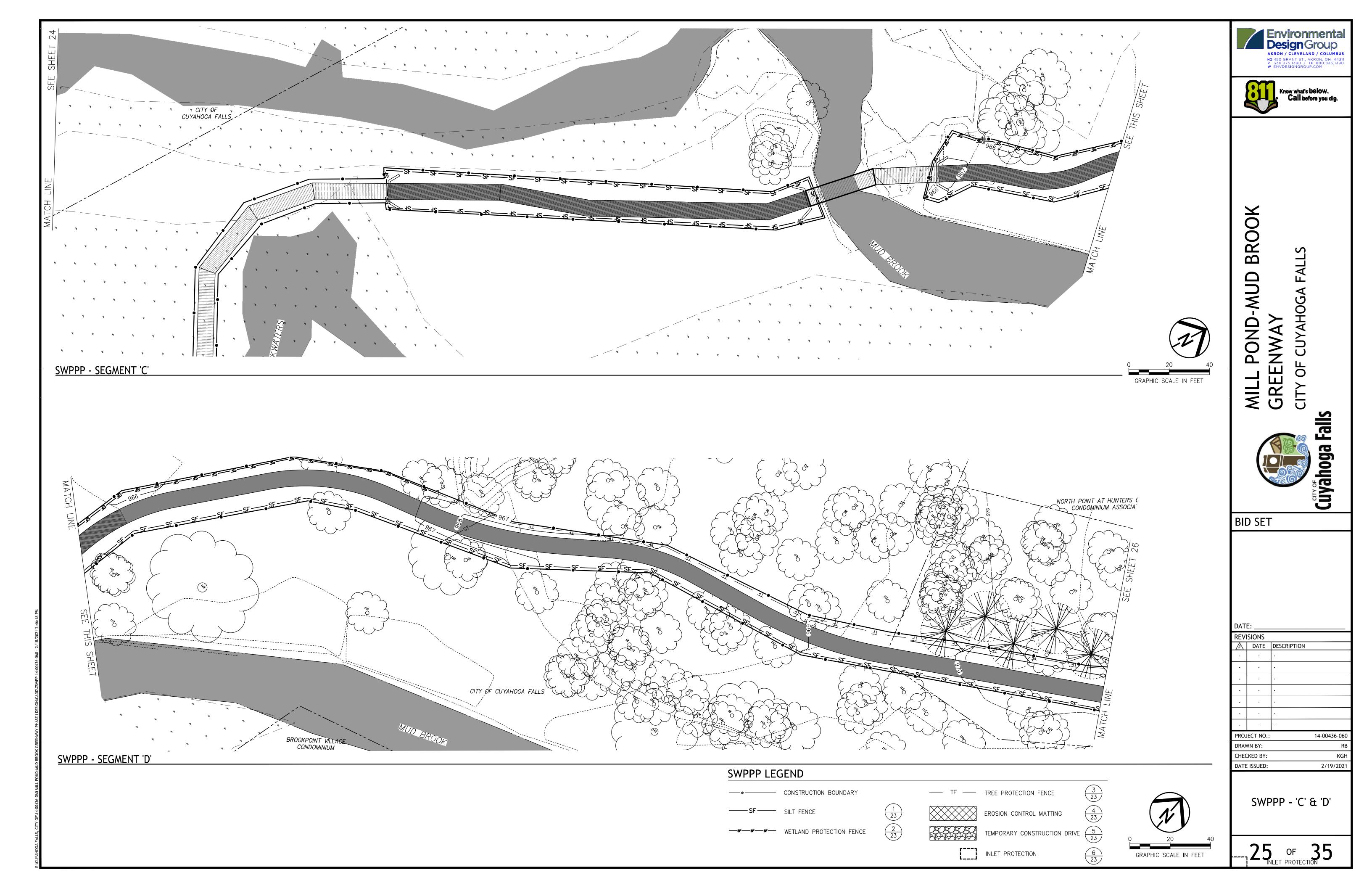
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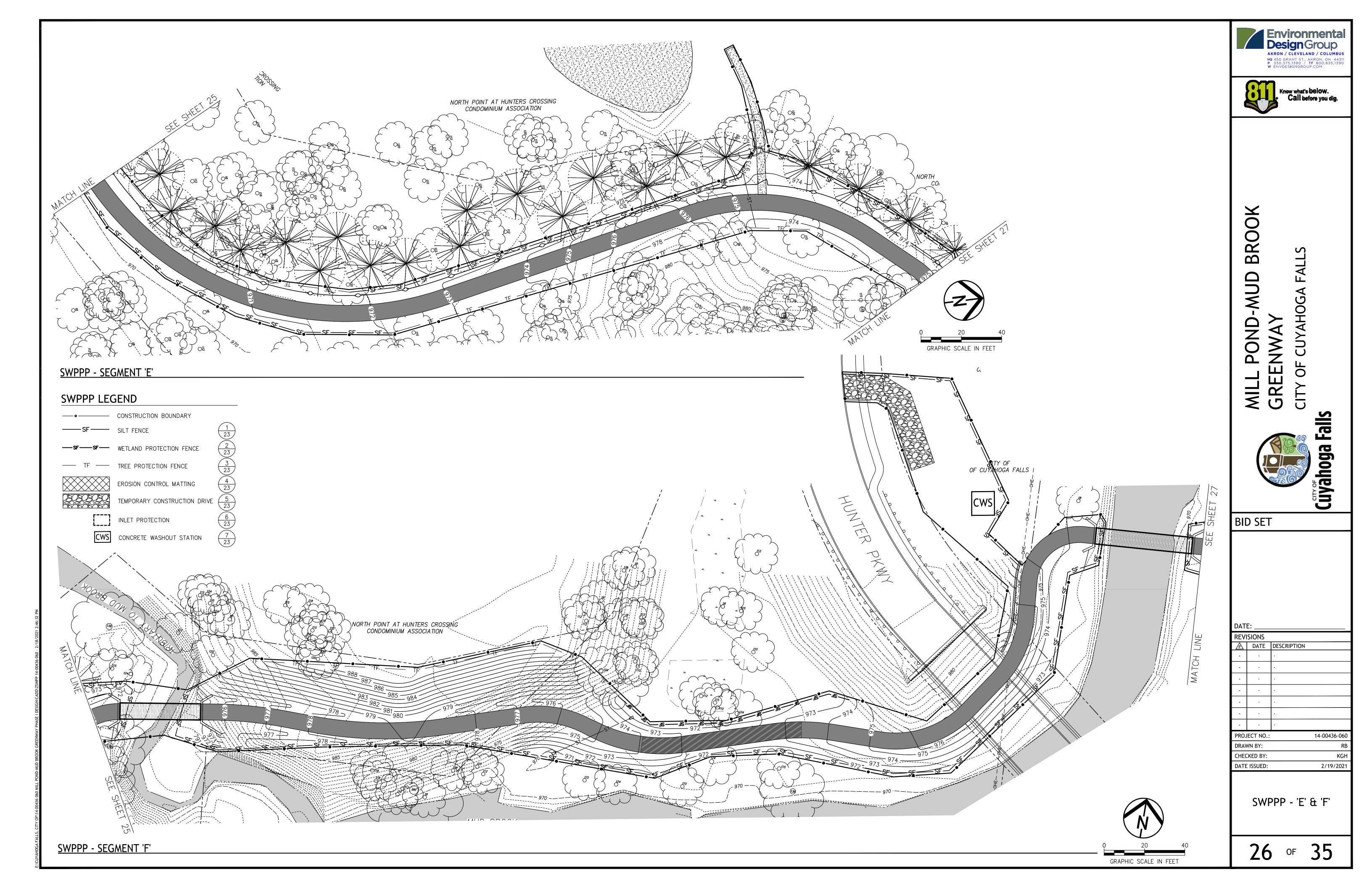
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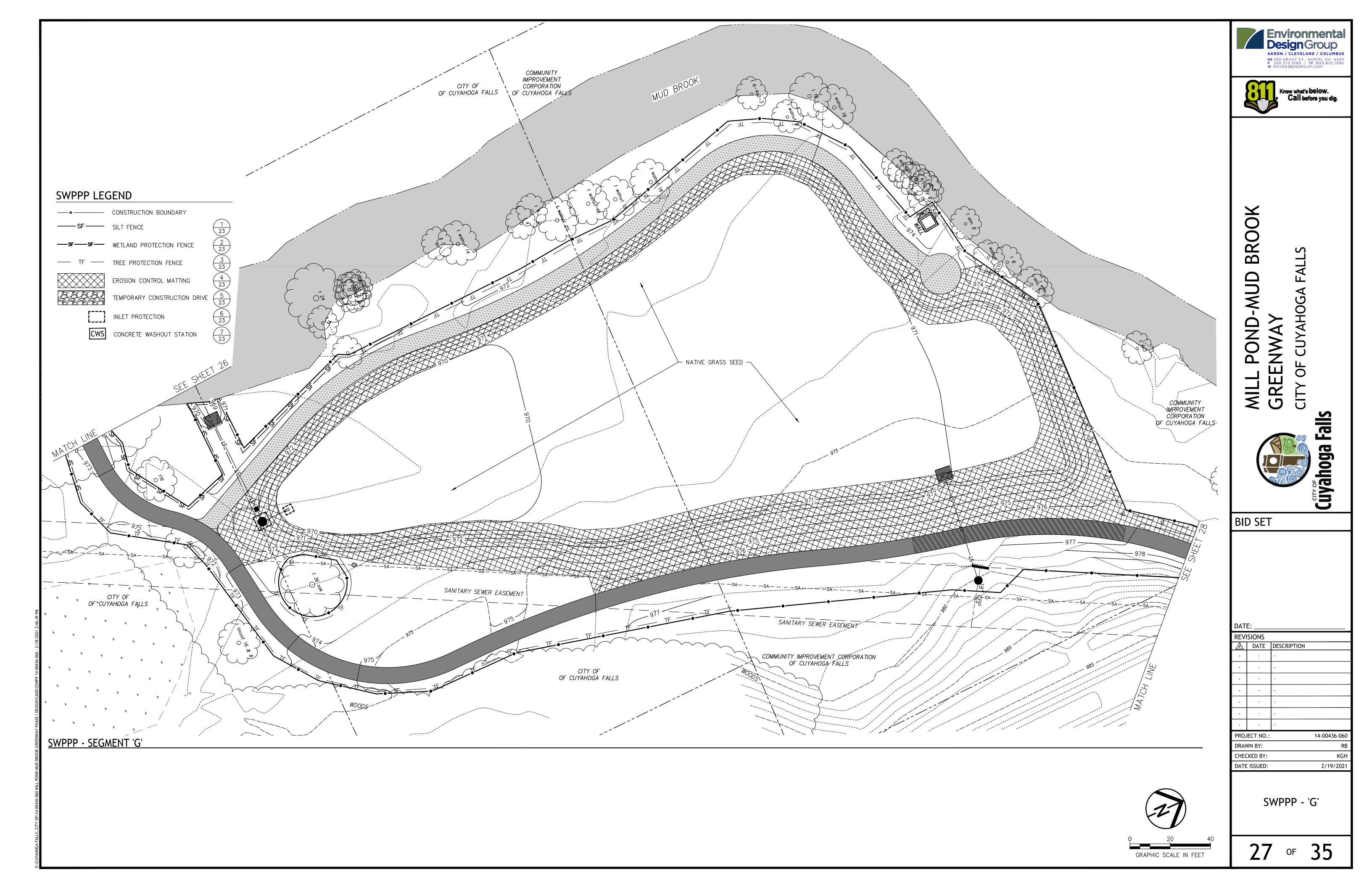
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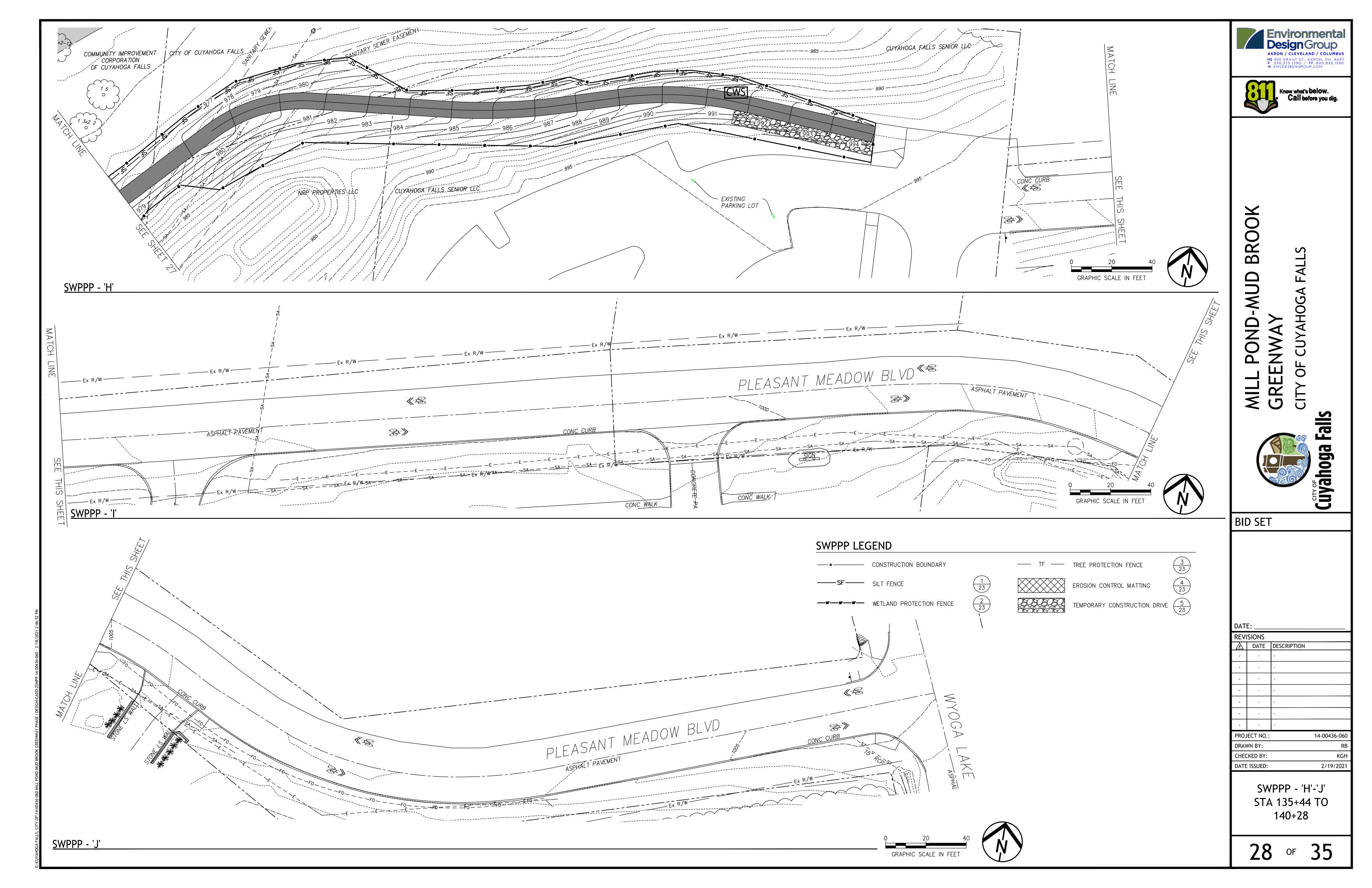
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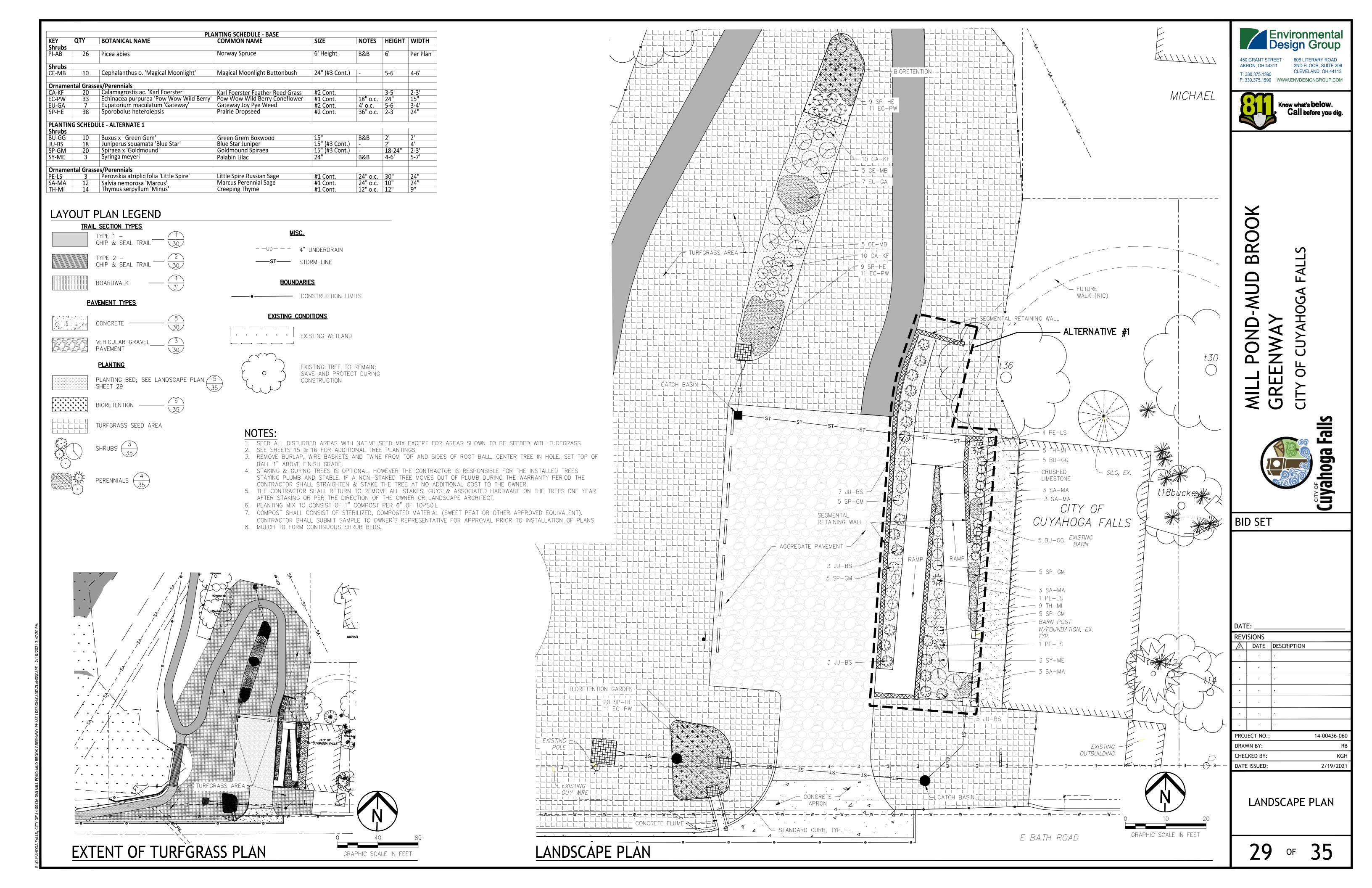


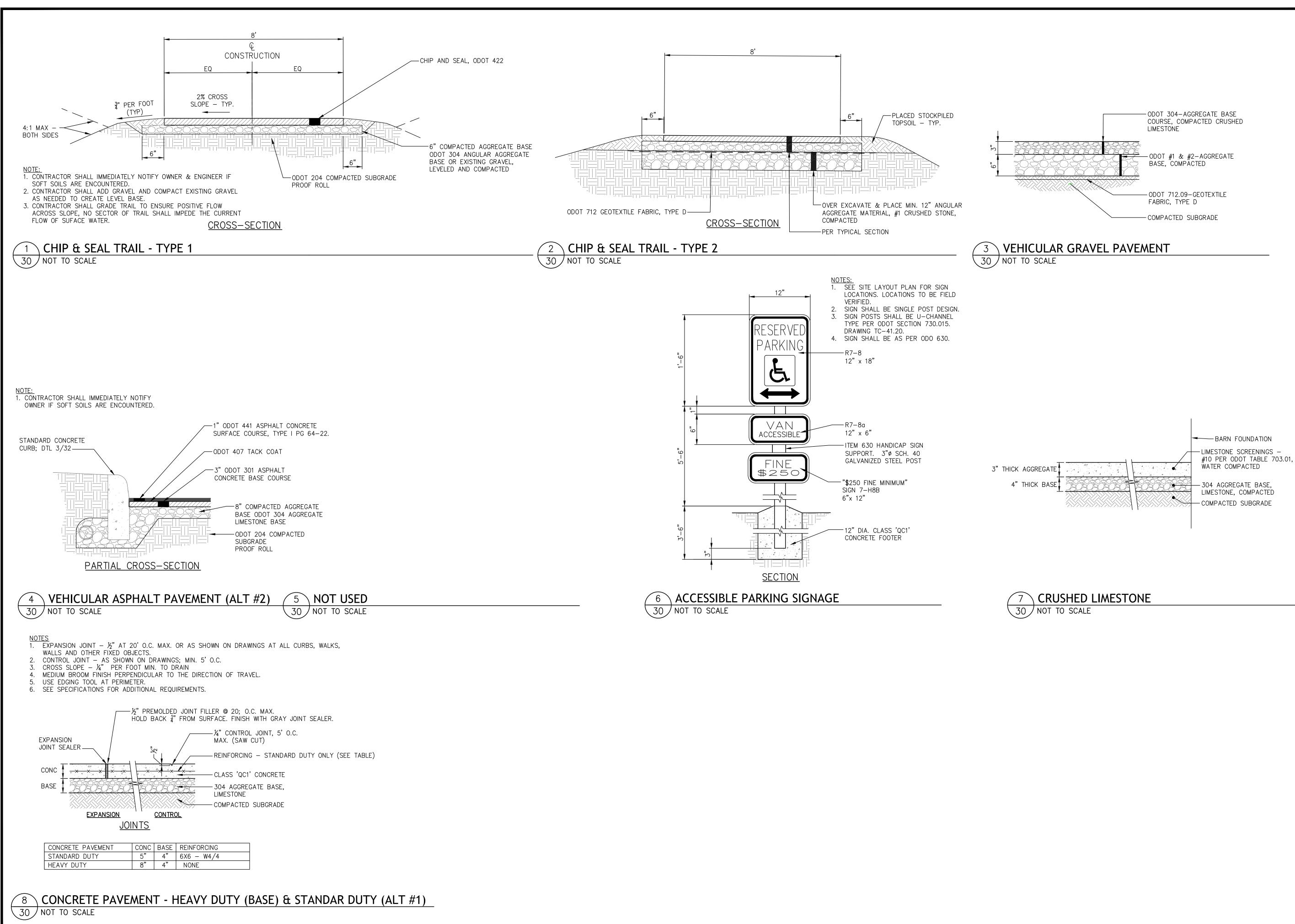












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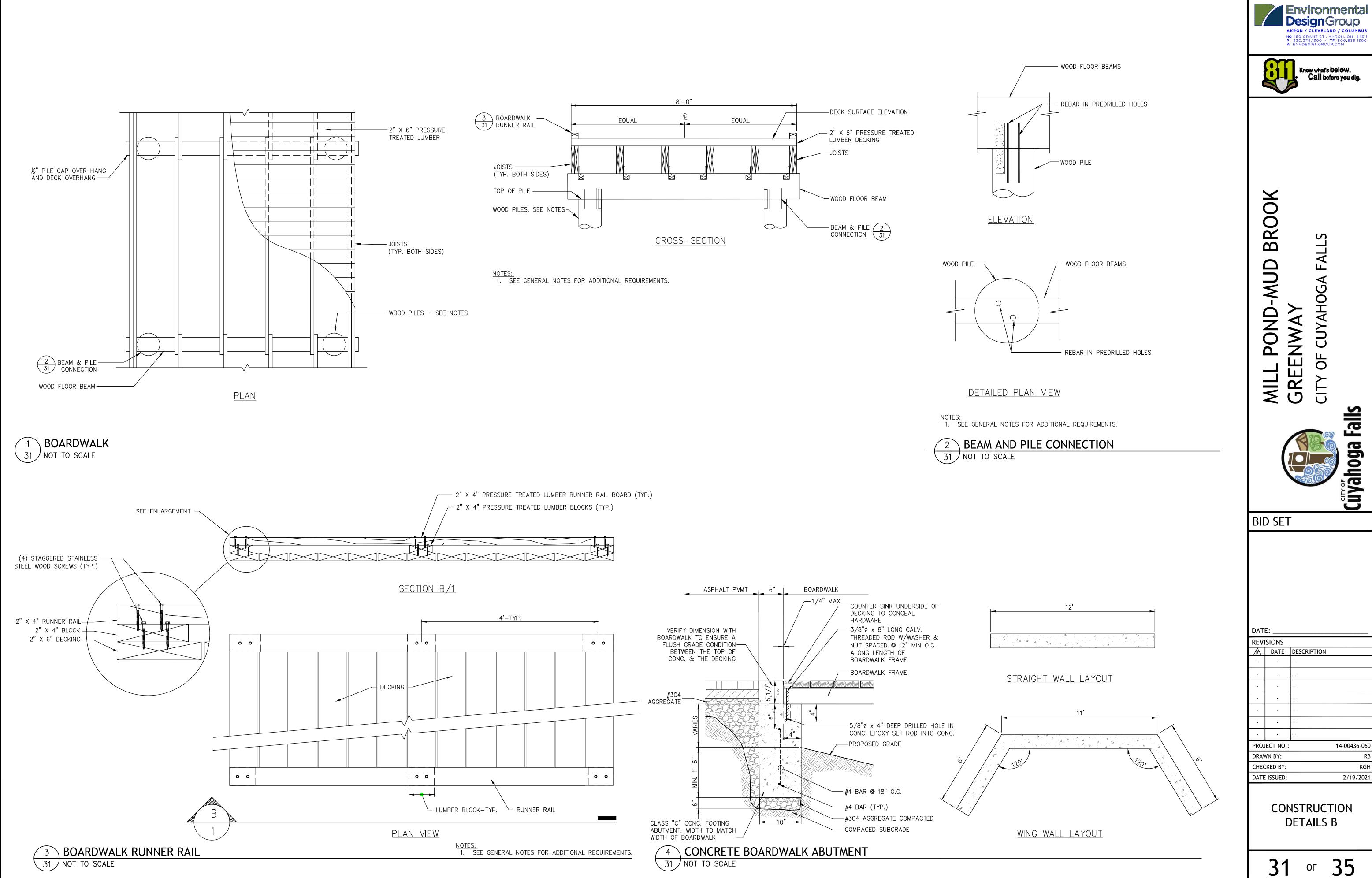
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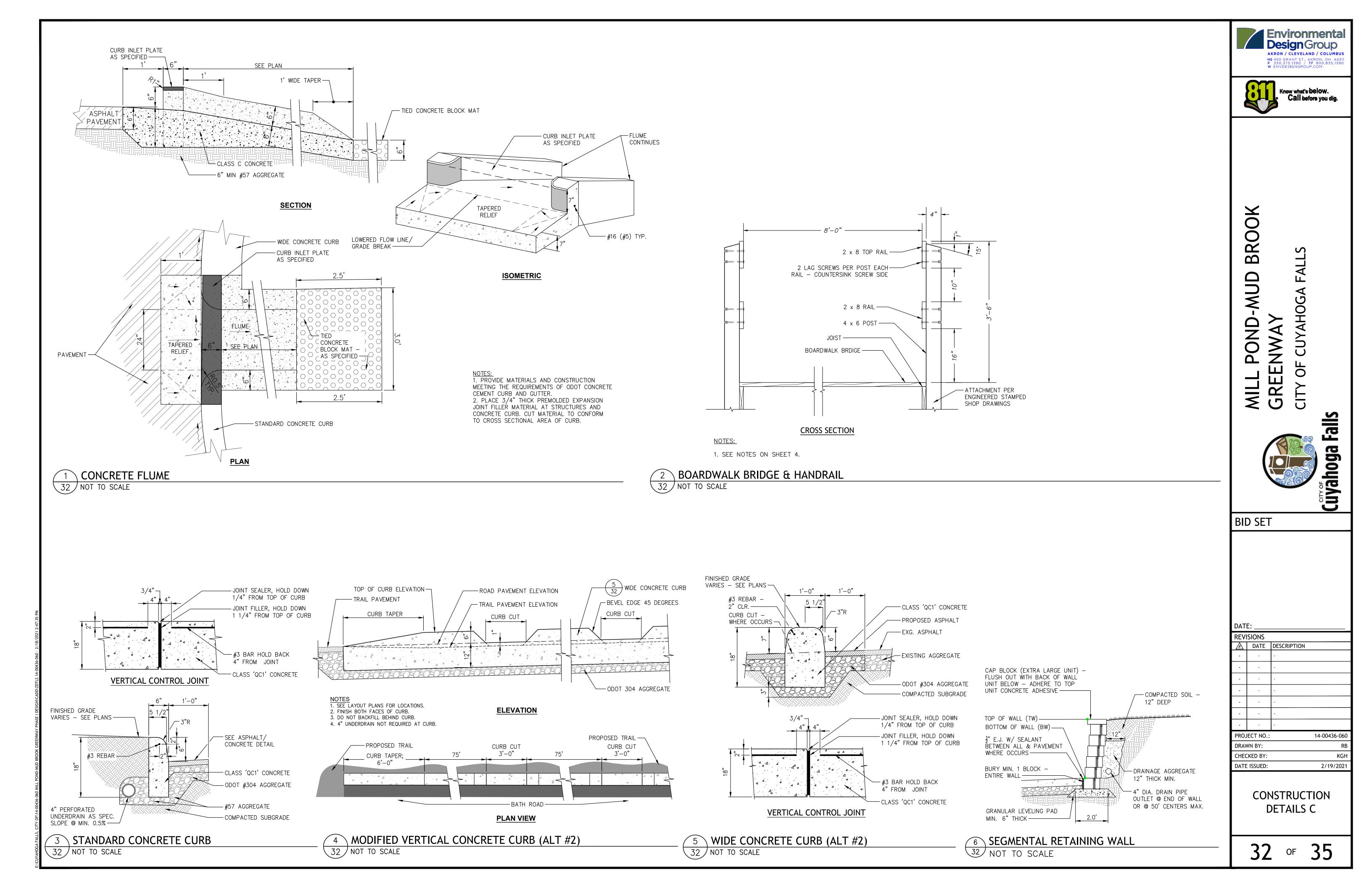
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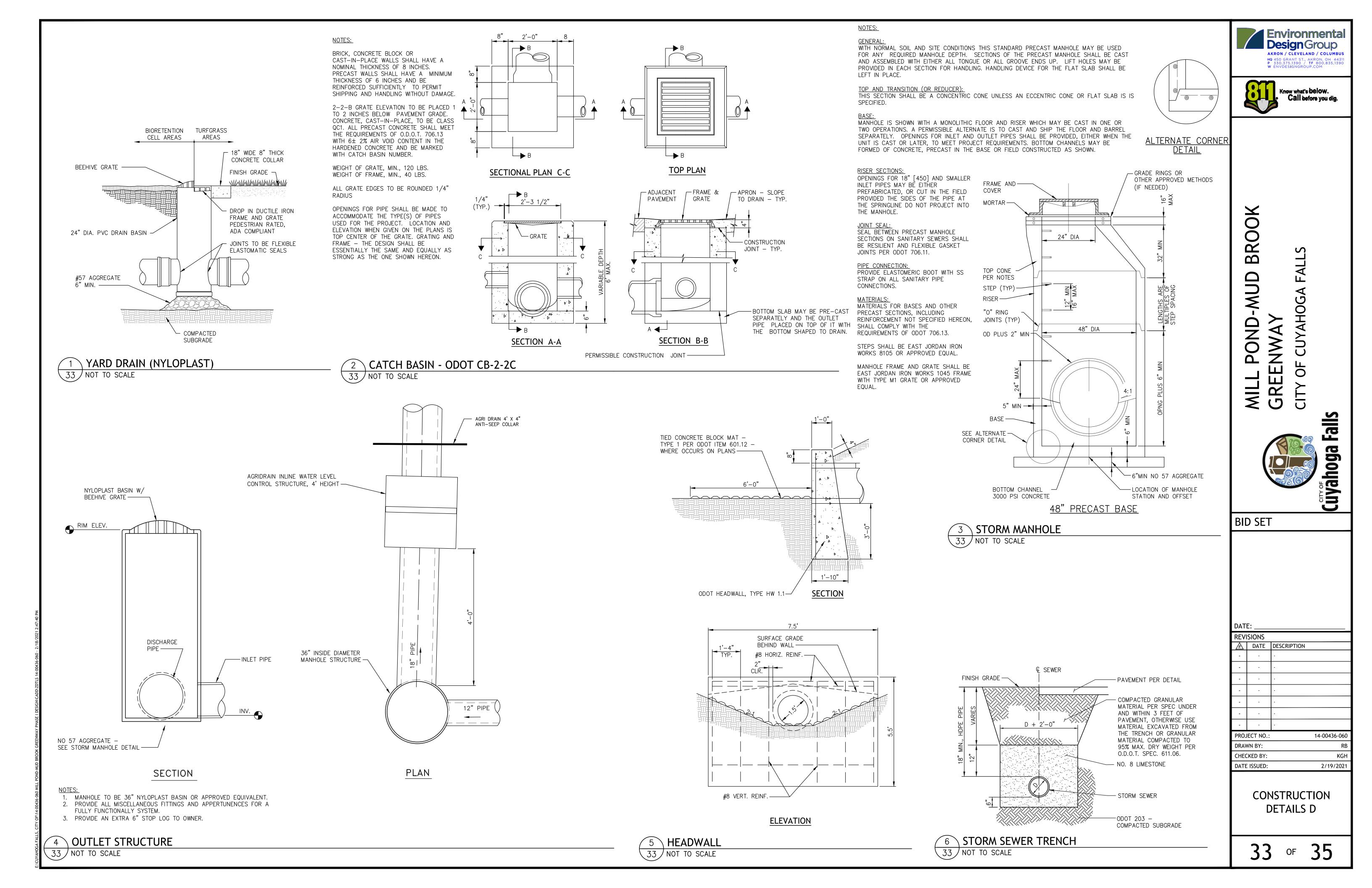


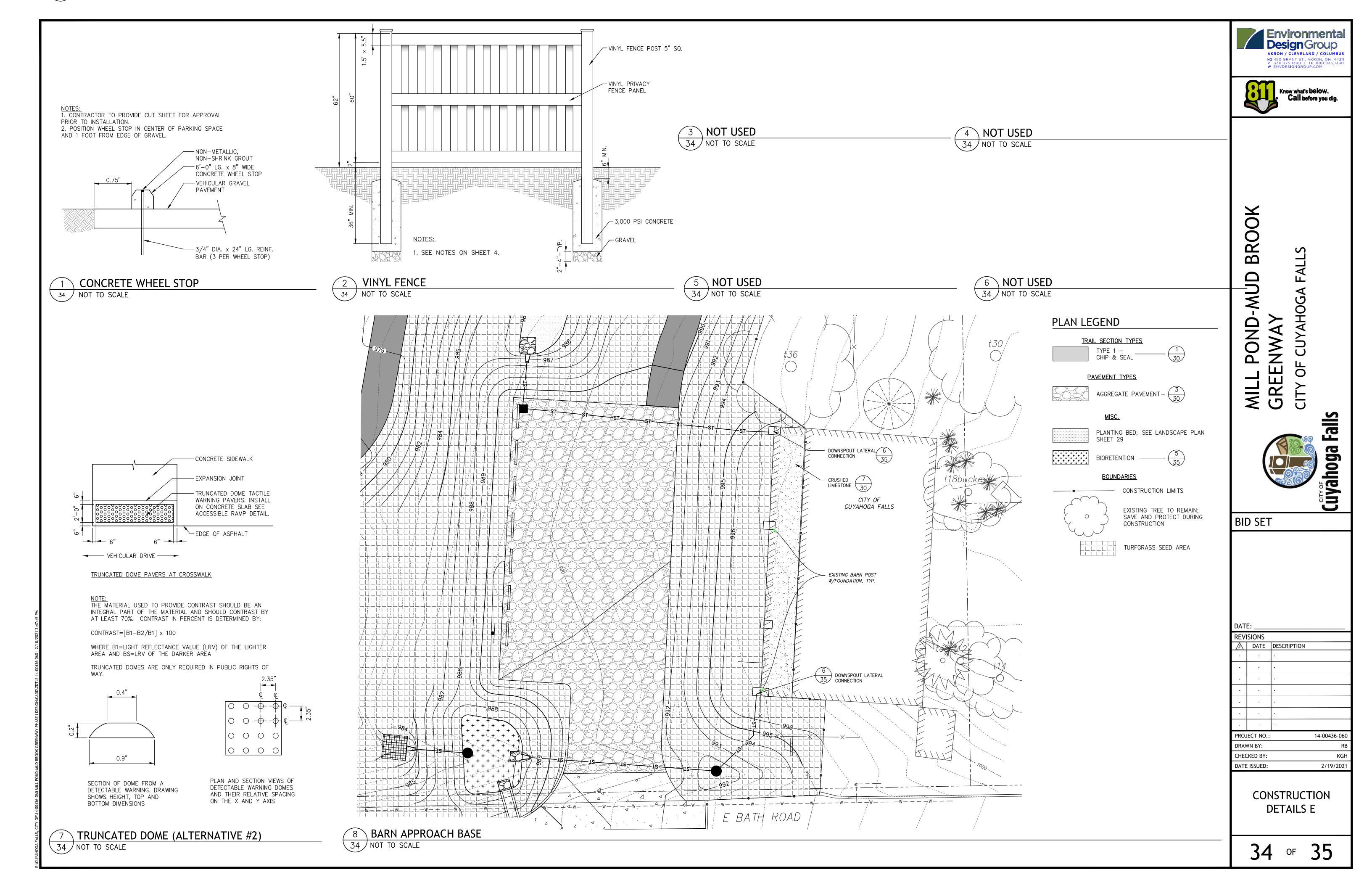
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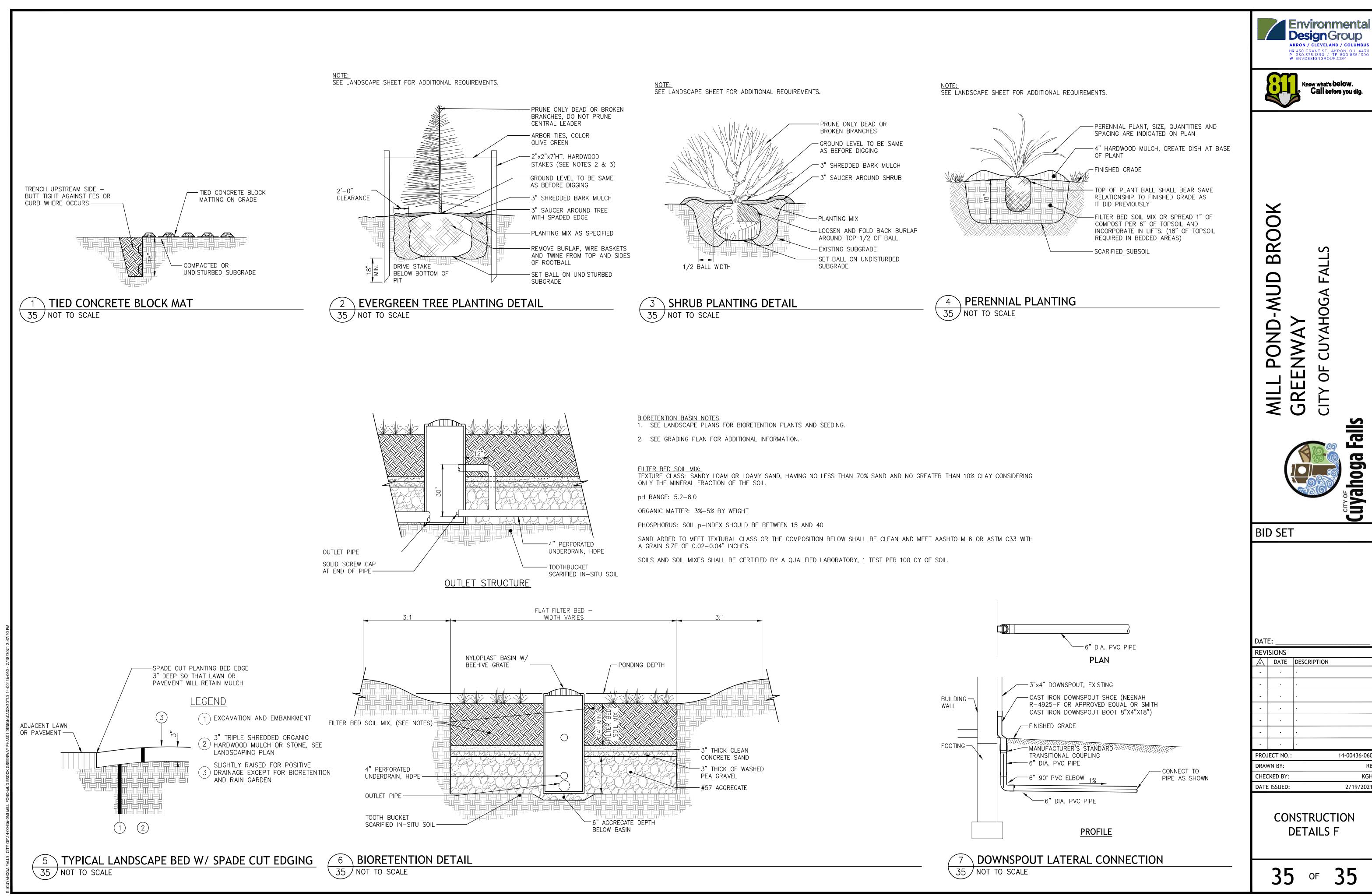
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