

CITY OF FORT WRIGHT
KENTON COUNTY, KENTUCKY
AMSTERDAM ROAD RECONSTRUCTION
ITEM No. 6-438

160777

FORT WRIGHT CITY OFFICIALS

MAYOR
DAVE HATTER

CITY ADMINISTRATOR
JILL BAILEY

CITY CLERK
SUSAN ELLIS

CITY COUNCIL MEMBERS
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CITY ATTORNEY
TODD McMURTRY

PUBLIC WORKS DIRECTOR
JEFF BETHELL

GENERAL NOTES

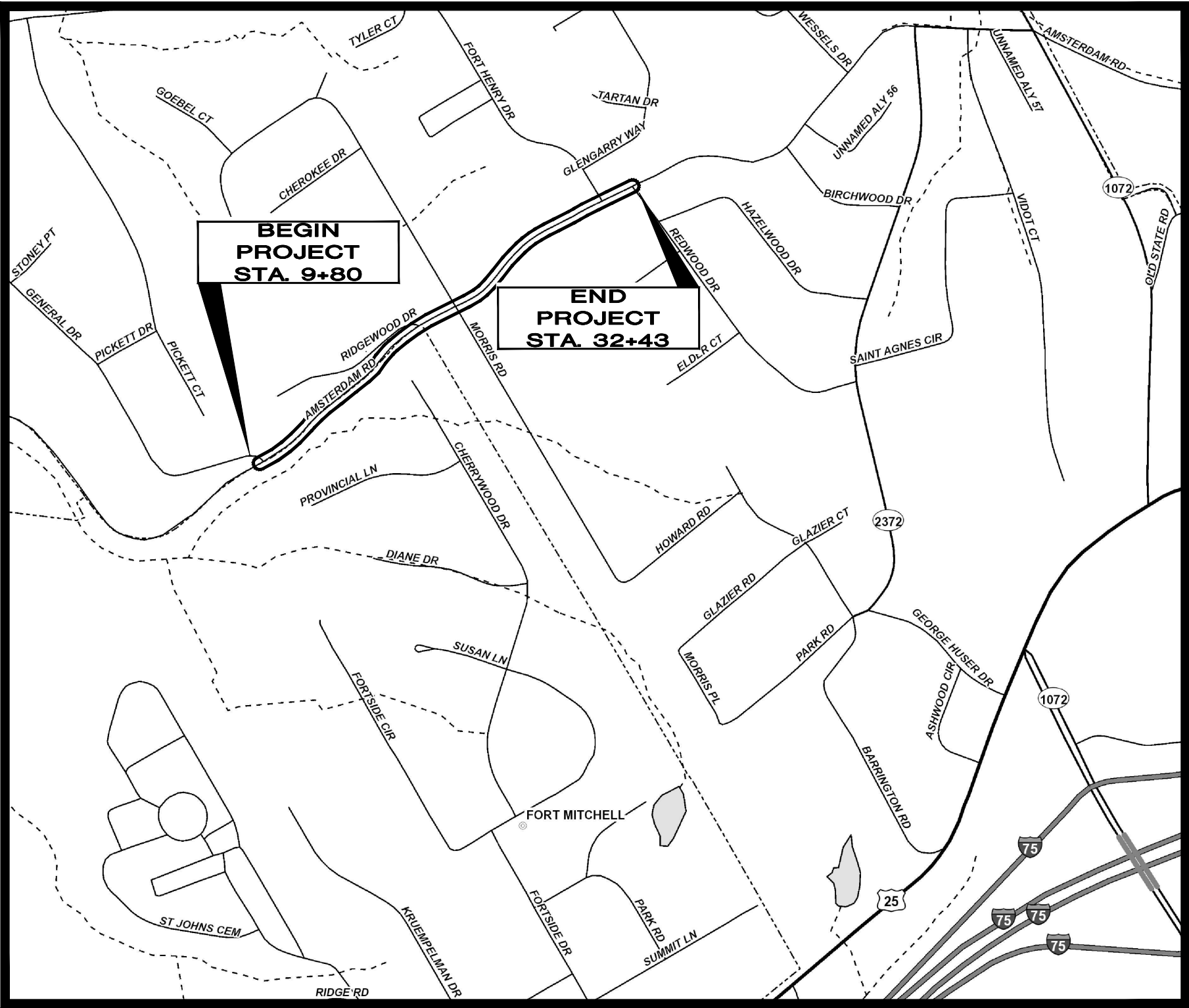
- ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE LATEST EDITION OF THE KENTON COUNTY SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- EXPANSION MATERIAL SHALL BE 1" THICK FLEXIBLE FOAM MATERIAL, SUCH AS CERAMAR BY W.R. MEADOWS OR APPROVED EQUAL, INSTALLED IN AREAS OF CONCRETE WALK, DRIVES OR CURB/GUTTER ONLY AT THE FOLLOWING:
 - AT ALL FIXED OBJECTS (I.E. UTILITY COVERS, VALVES, MANHOLES, ETC.)
 - AT ALL RIGID STRUCTURES (I.E. DRIVES, CURBS, STEPS, ETC.). PAYMENT FOR THIS ITEM AND ZIP STRIPS INCLUDED IN THE PERTINENT CONCRETE PAVEMENT UNIT PRICE.
 - AT ALL STREET INTERSECTIONS AT THE POINT OF CURVATURE OF THE TURNING RADII ENTERING THE INTERSECTION.
 - NO CONCRETE SHALL BE LEFT ABOVE THE EXPANSION MATERIAL OR ACROSS THE JOINT AT ANY POINT. ANY CONCRETE SPANNING THE ENDS OF THE JOINT NEXT TO THE FORMS SHALL BE CAREFULLY CUT AWAY AFTER THE FORMS ARE REMOVED. BEFORE THE PAVEMENT IS OPENED TO TRAFFIC, THE GROOVE ABOVE THE EXPANSION JOINT MATERIAL SHALL BE CLEANED AND SEALED WITH JOINT SEALING MATERIAL.
- ROADWAY REPLACEMENT PROJECT MAY NOT BEGIN BEFORE XXXX X, 201X AND SHALL BE SUBSTANTIALLY COMPLETE NO LATER THAN XXXXX XXX, 201X.
- DOWNSPOUT AND UNDERDRAIN CONSTRUCTION SHALL MEET THESE AND THE LATEST SPECIFICATION OF THE KENTON COUNTY SUBDIVISION REGULATIONS, SD-1 REGULATIONS AND STANDARD DRAWINGS, AND DETAILS SHOWN ON THIS PLAN. BEDDING, BACKFILLING, JOINTS, EXCAVATION AND INSTALLATION SHALL BE INCLUDED IN THE COST PER FOOT OF PIPE. STORM SEWER, DOWNSPOUT AND UNDERDRAIN PIPE MATERIAL SHALL HAVE A MANNING'S "N" VALUE OF 0.013 OR LESS (UNLESS OTHERWISE SHOWN) AND BE RIGID / SMOOTH INTERIOR WALLED PVC SDR-35 PIPE, RIBBED PVC PIPE, A-2000 PVC PIPE, UNLESS OTHERWISE SHOWN.
- ALL DISTURBED AREAS ARE TO BE RESTORED (SEEDED AND MULCHED) BY THE CONTRACTOR AND SHALL PROCEED WITH JOB PROGRESSION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING ANY EXCESS MATERIALS AT THE SITE AND MAINTAINING ALL SEEDED AND MULCHED AREAS UNTIL PROJECT COMPLETION AND FINAL INSPECTION PER KDOT SPEC. 212. A RESIDENTIAL YARD SHALL BE RESTORED WITHIN TWENTY-ONE (21) DAYS AFTER CONSTRUCTION.
- ALL APPLICABLE RECOMMENDATIONS IN KENTUCKY'S BEST MANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING SEEDING OF DISTURBED GROUND.
- RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM DEEDS AND PLATS OF RECORD.
- THE CONTRACTOR SHALL LIMIT THEIR WORK AREA TO THE EASEMENTS AND RIGHTS-OF-WAY SHOWN ON THESE PLANS UNLESS WRITTEN PERMISSION IS GIVEN BY THE PROPERTY OWNER AND APPROVED BY THE CITY OF FORT WRIGHT.
- ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED DURING CONSTRUCTION.
- THIS PLAN SHOWS THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES (GAS, WATER, STORM SEWER, SANITARY SEWER, TELEPHONE, ELECTRIC, ETC.). THE PREPARER DOES NOT GUARANTEE THEIR ACCURACY OR CORRECTNESS. THE INFORMATION PROVIDED SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE UTILITY AS WELL AS THE SERVICE LATERALS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PRACTICE CARE DURING THE GRADING AND TRENCH EXCAVATION AND SHALL BE RESPONSIBLE FOR REPLACING ANY SERVICES THAT ARE DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.
- RELOCATION OR REINSTALLATION OF EXISTING MAIL BOXES, FENCES, PRIVATE LANDSCAPE LIGHTS, PRIVATE SIGNS, STREET SIGNS, RESTORATION OF LANDSCAPING AND TREATMENT OF EXISTING WALLS WHERE A PORTION HAS BEEN REMOVED SHALL BE INCIDENTAL TO CLEARING AND GRUBBING.
- FORTY-EIGHT (48) HOURS BEFORE EXCAVATION IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE KENTUCKY UTILITY PROTECTION SERVICE AND ALL OTHER UTILITIES THAT MAY HAVE UNDERGROUND UTILITIES INVOLVING THIS PROJECT AND ARE NON-MEMBERS OF KENTUCKY UNDERGROUND PROTECTION.
- NO CONSTRUCTION SHALL COMMENCE UNTIL ALL KENTON COUNTY AND THE CITY OF FORT WRIGHT PERMITS HAVE BEEN ISSUED AS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE CITY OF FORT WRIGHT. LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE PLANS.
- CONTRACTOR SHALL BE REQUIRED TO MAINTAIN SANITARY SEWER AND STORM SEWER FLOW THROUGH THE PROJECT, FOR THE DURATION OF CONSTRUCTION. ALL COST FOR THE ABOVE SHALL BE INCIDENTAL TO THE CONTRACT.
- LIMITS OF DRIVEWAY APRON & SIDEWALK REPLACEMENT TO BE MARKED IN THE FIELD BY THE ENGINEER. ADDITIONAL DRIVEWAY & SIDEWALK REPLACEMENTS, NOT SHOWN ON THE PLANS MAY BE REQUIRED BY THE ENGINEER.

MAINTENANCE OF TRAFFIC NOTES

- ALL MAINTENANCE OF TRAFFIC PROCEDURES SHALL MEET THE REQUIREMENT OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND SECTION 112 OF KTC STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL TRAFFIC ACCESS TO RESIDENCES WITHIN CONSTRUCTION LIMITS) AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SIGN, WARNING LIGHTS, BARRICADES, OR OTHER NECESSARY DEVICES MAKE THE SITE SAFE TO THE TRAVELING PUBLIC.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT.
- PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF FT WRIGHT AND THE FT WRIGHT POLICE DEPARTMENT. AT ALL TIMES, EMERGENCY VEHICLES SHALL BE GIVEN ACCESS.
- RESIDENTS OF THE PROJECT AREA SHALL BE ALLOWED ACCESS TO THEIR PROPERTY AT ALL TIMES.
- EACH DRIVEWAY SHALL BE ACCESSIBLE WHENEVER POSSIBLE. WHEN PORTLAND CEMENT CONCRETE CONSTRUCTION AFFECTS A DRIVEWAY, THE CONTRACTOR SHALL NOTIFY THE AFFECTED OWNERS 24 HOURS IN ADVANCE AND ADVISE THEM TO FIND ALTERNATIVE PARKING FOR A PERIOD OF AT LEAST 10 CALENDAR DAYS AFTER THE POUR. ALTERNATIVE PARKING SHALL INCLUDE "ON STREET" PARKING WITH ACCESS TO THE PROPERTY. TEMPORARY SIDEWALKS, ETC. WILL BE NECESSARY TO PREVENT PERSONS FROM WALKING IN MUD IN ORDER TO ENTER THEIR PROPERTY. TEMPORARY BRIDGES, RAILINGS ETC. WILL BECOME NECESSARY IN ORDER TO CROSS FORMED CURB LINES, EXCAVATED AREAS BEHIND CURB LINES AND WALKWAYS, ETC.

STORM SEWER NOTES

- TOPS OF EXISTING AND PROPOSED CASTING ELEVATIONS ARE SUBJECT TO FINAL ADJUSTMENTS AS APPROVED BY THE ENGINEER AND REQUIREMENTS OF UTILITY OWNER. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT.
- 36" AND SMALLER STORM SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) SMOOTH WALL PIPE PER ASTM D3034. POLYVINYL CHLORIDE (PVC) PROFILE WALL PER ASTM F794 OR F949, OR HIGH DENSITY POLYETHYLENE (HDPE) PER AASHTO M294. JOINTS FOR PVC PIPE SHALL BE GASKET, BELL AND SPIGOT, PUSH ON TYPES PER ASTM D3212; HDPE PIPE SHALL BE JOINED USING AN INLINE BELL AND SPIGOT JOINT PER AASHTO M252, AASHTO M294 OR ASTM F2306. ALL JOINTS SHALL BE SOIL TIGHT. ALL GASKETS SHALL MEET ASTM F477.
- ALL PROPOSED STORM SEWERS TO BE PUBLICLY DEDICATED TO SD1 UPON COMPLETION OF THE PROJECT. CONTRACTOR TO COORDINATE INSPECTIONS WITH SD1
- EXTENDED DETENTION BASIN AT 133 MORRIS ROAD TO BE OWNED AND MAINTAINED BY THE CITY OF FORT WRIGHT.



VICINITY MAP

K.T.C SPECIFICATIONS

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO AND CITY OF FORT WRIGHT ENGINEERING DEPARTMENT REQUIREMENTS SHALL GOVERN THIS IMPROVEMENT.

SOURCE OF BOUNDARY INFORMATION

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON A COMBINATION OF A FIELD SURVEY BY CT CONSULTANTS, INC. INTEGRATED WITH NORTHERN KENTUCKY AREA PLANNING COMMISSION G.I.S. MAPPING



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LEGEND

- EXISTING POWER POLE
EXISTING LIGHT POLE
EXISTING GUY ANCHOR
EXISTING MAILBOX
EXISTING WATER VALVE/MAIN
EXISTING FIRE HYDRANT
EXISTING SIGN
EXISTING GAS VALVE
EXISTING TREE OR SHRUB OR LANDSCAPING
EXISTING STORM (CATCHBASIN - MANHOLE)
EXISTING & ABANDONED WATER MAINS
EXISTING WATER SERVICES
EXISTING GAS MAIN
EXISTING GAS SERVICES
EXISTING STORM SEWER
EXISTING SANITARY SEWER
EXISTING RIGHT OF WAY
EXISTING SANITARY MANHOLE

TREE TO BE REMOVED

- PROPOSED STORM SEWER STRUCTURE
PROPOSED STORM SEWER
PROPOSED UNDERDRAIN
PROPOSED TEMPORARY EASEMENT
PROPOSED PERMANENT EASEMENT

EROSION CONTROL LEGEND

- IP INLET PROTECTION - SEE DETAIL ON SHEET 4/40 (DT-3)
SB SAND BAG CHECK DAM - SEE DETAIL ON SHEET 4/40 (DT-3)
SF SILT FENCE - SEE DETAIL ON SHEET 4/40 (DT-3)

HATCH LEGEND

- PROPOSED PAVEMENT REPLACEMENT
- SEE TYPICAL SECTIONS
6" CONCRETE DRIVEWAY REPLACEMENT
- SEE DETAIL SHEET
ASPHALT DRIVEWAY REPLACEMENT
- SEE DETAIL SHEET
4" CONCRETE SIDEWALK REPLACEMENT
- SEE DETAIL SHEET

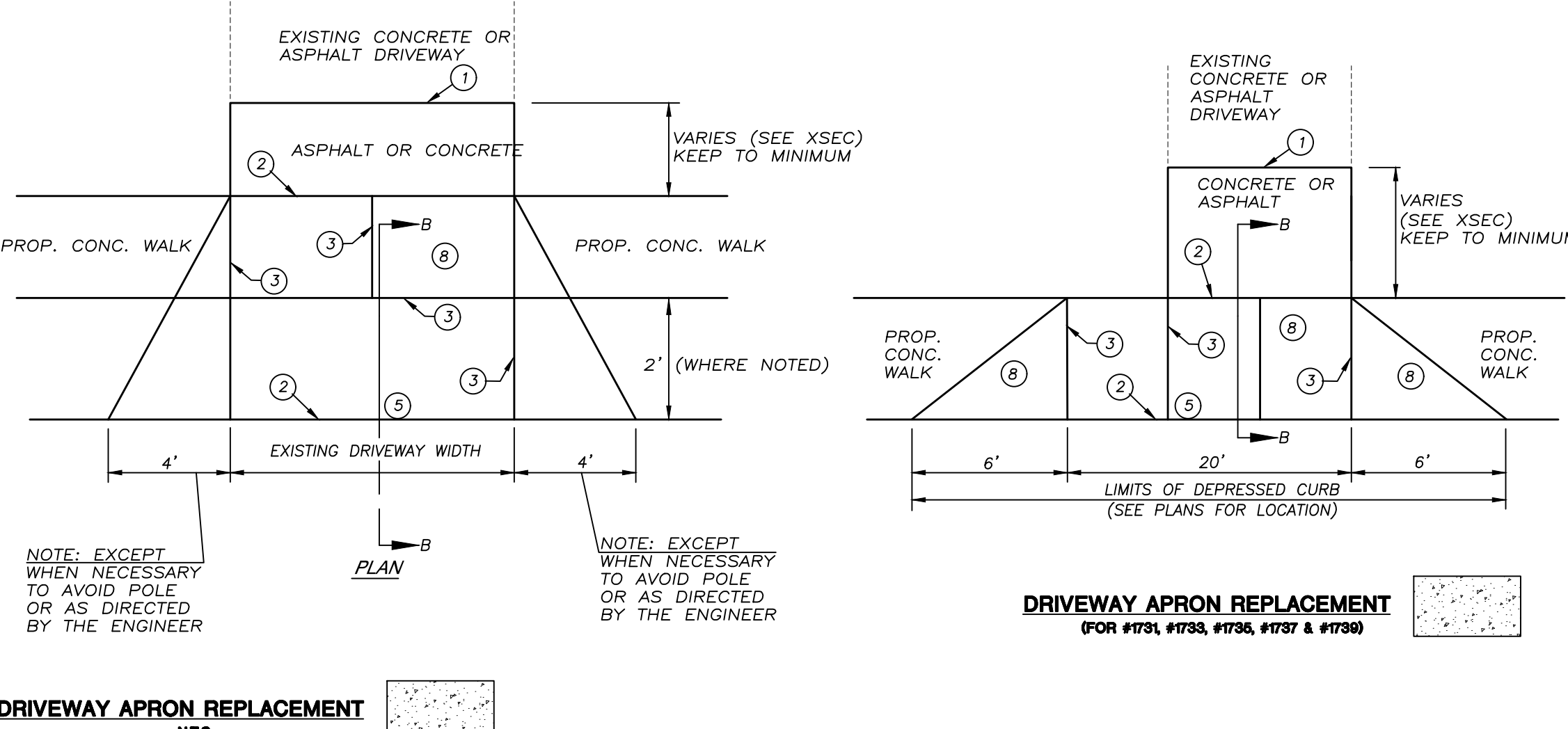
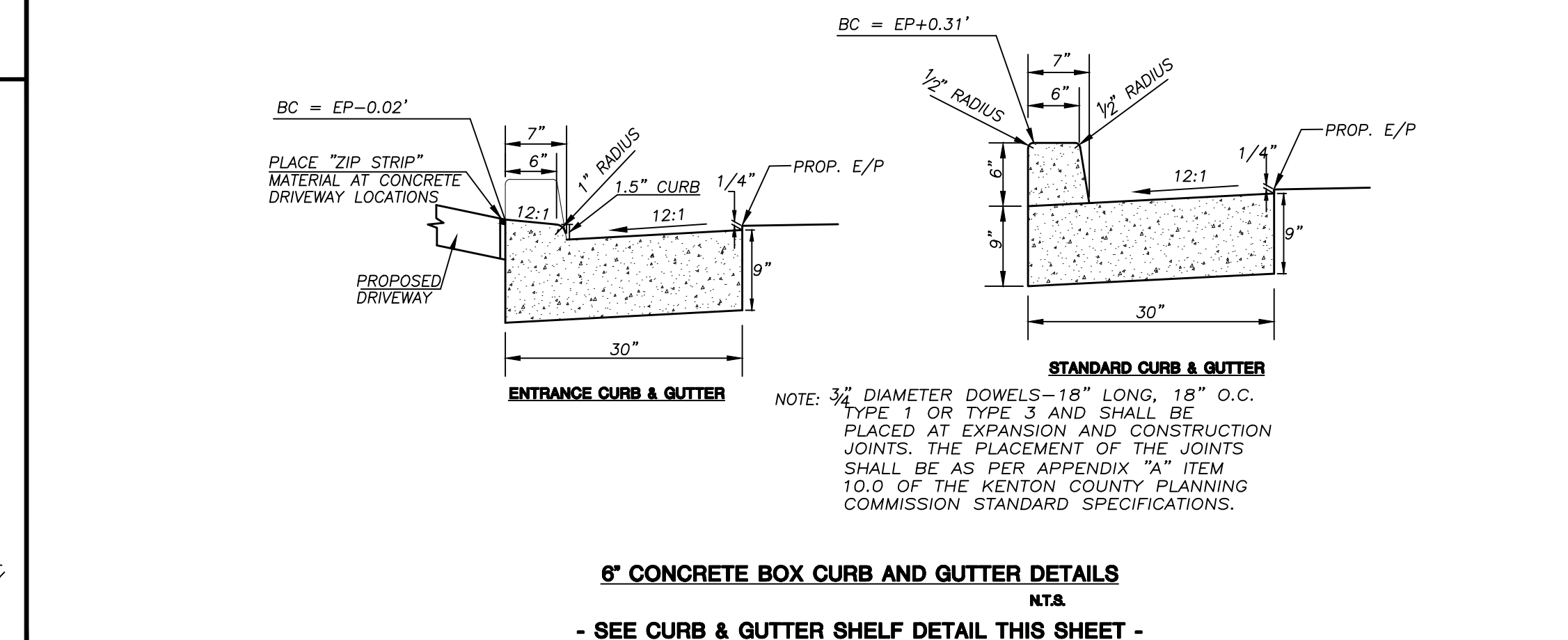
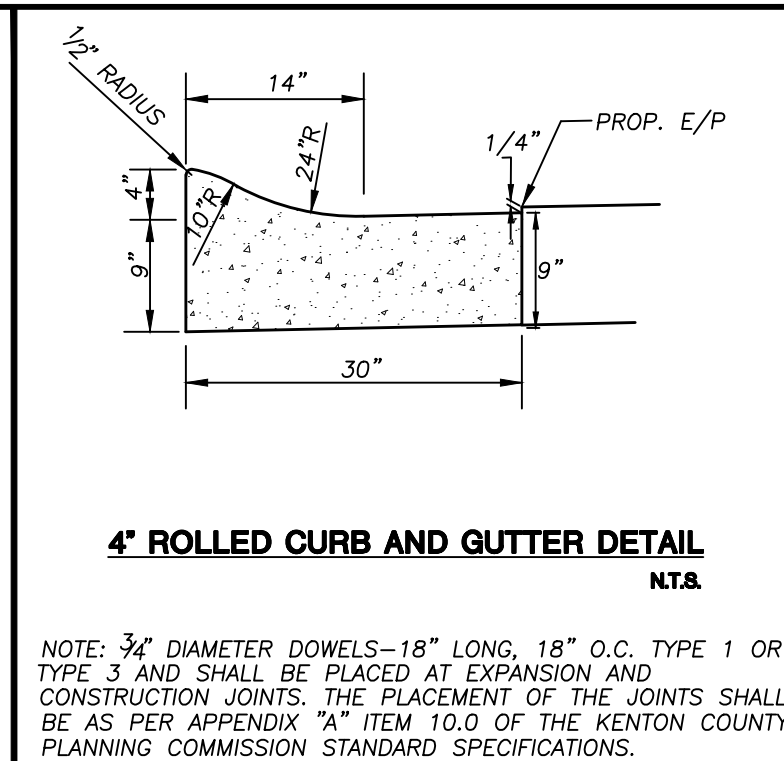
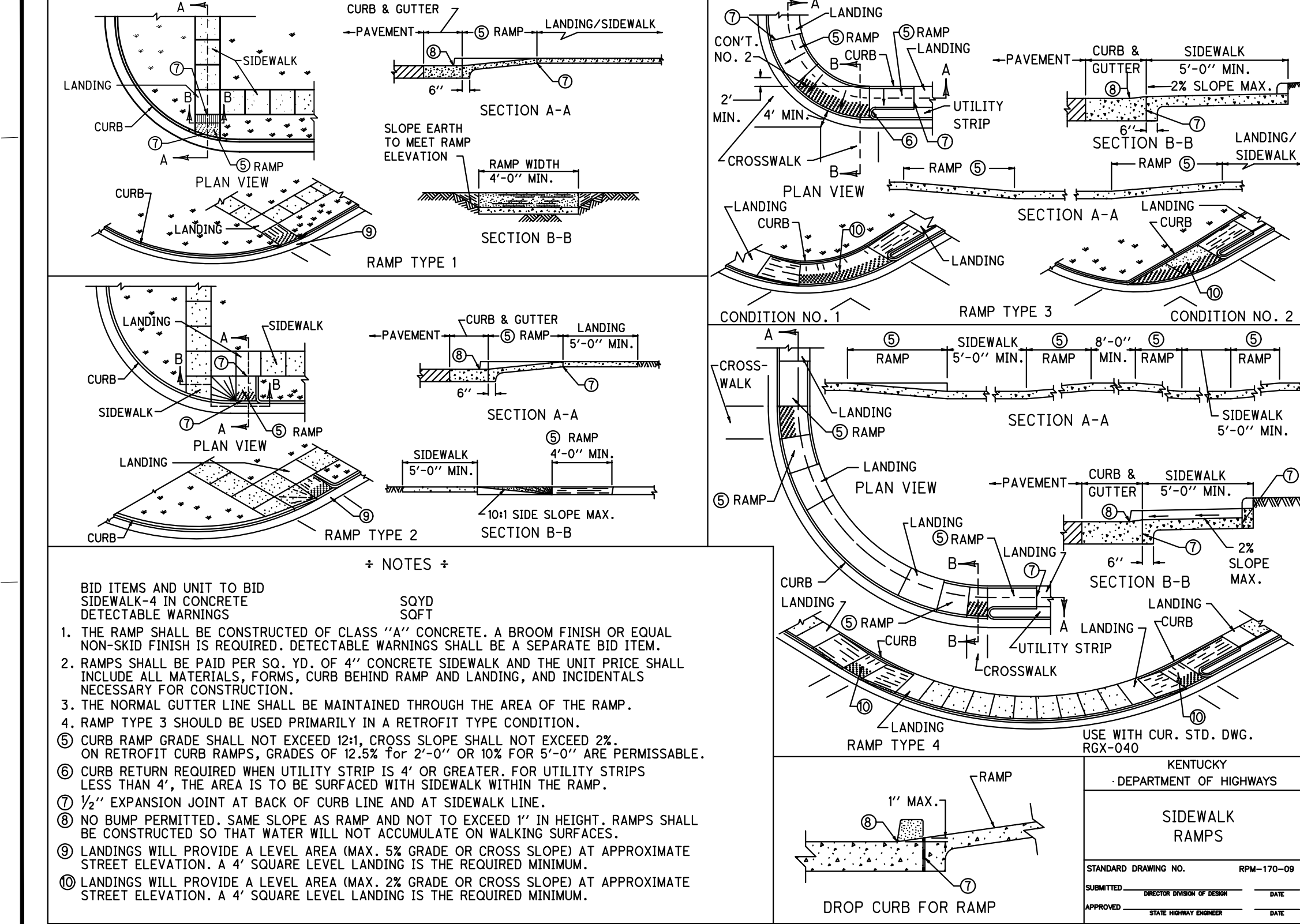
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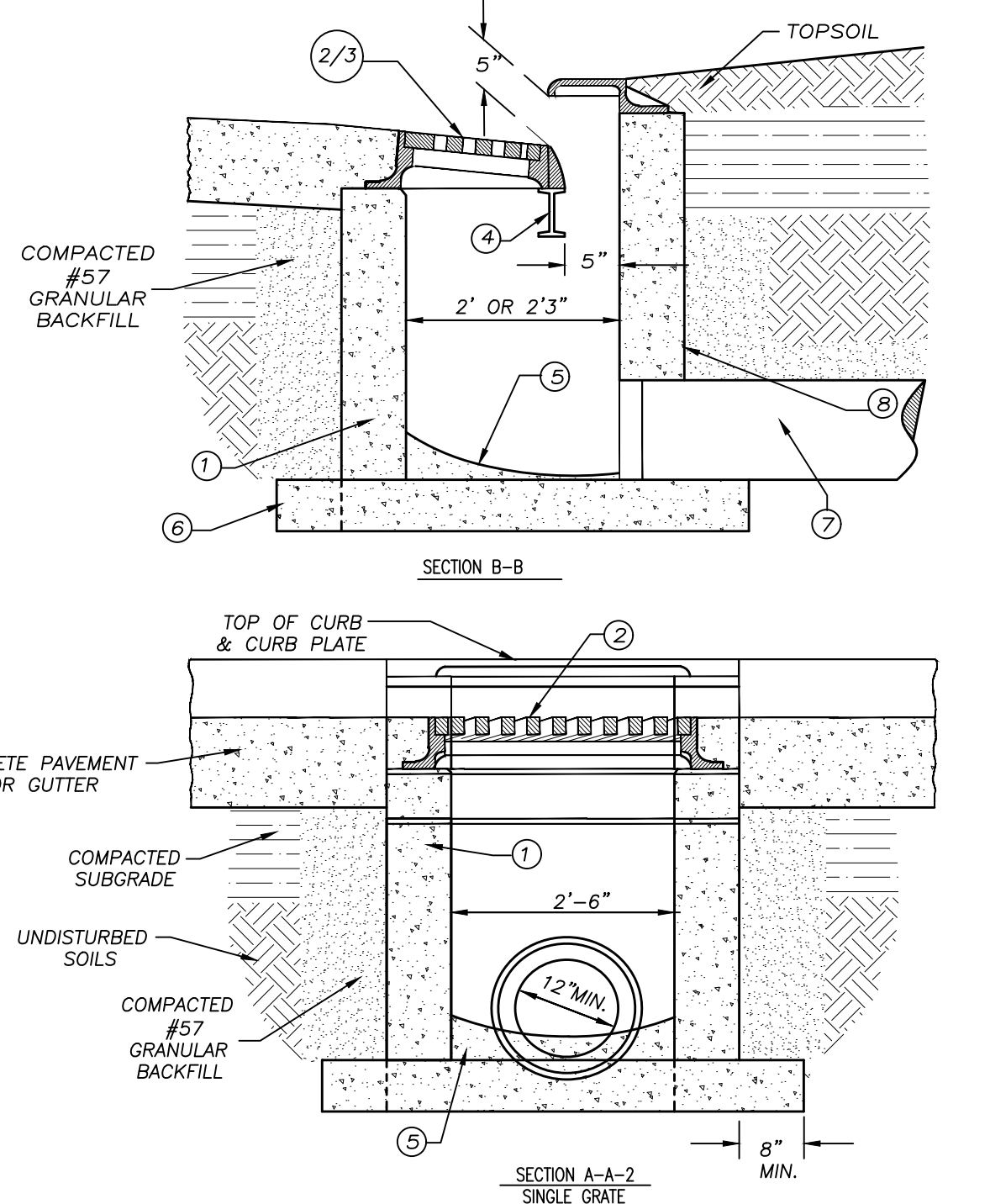
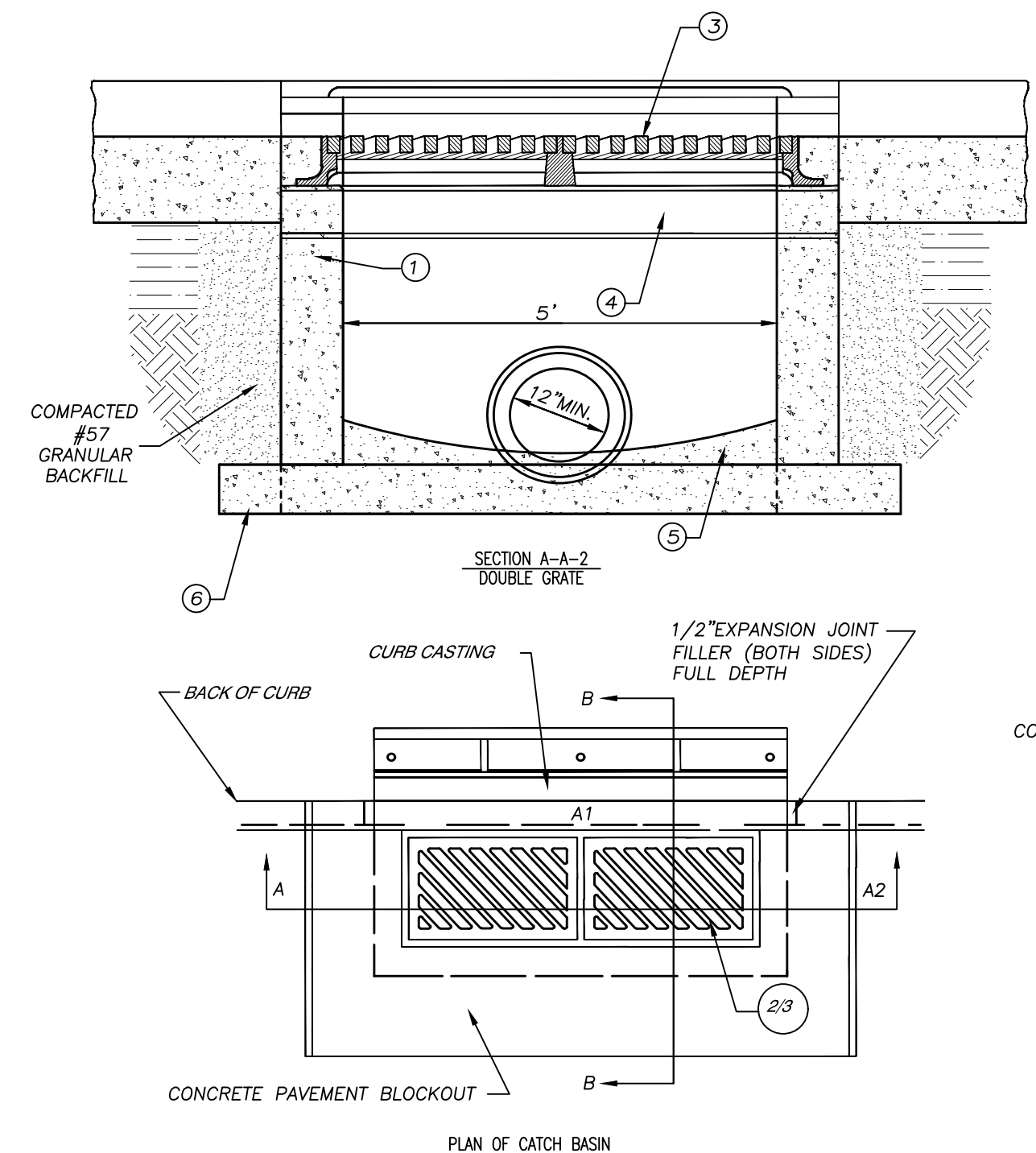
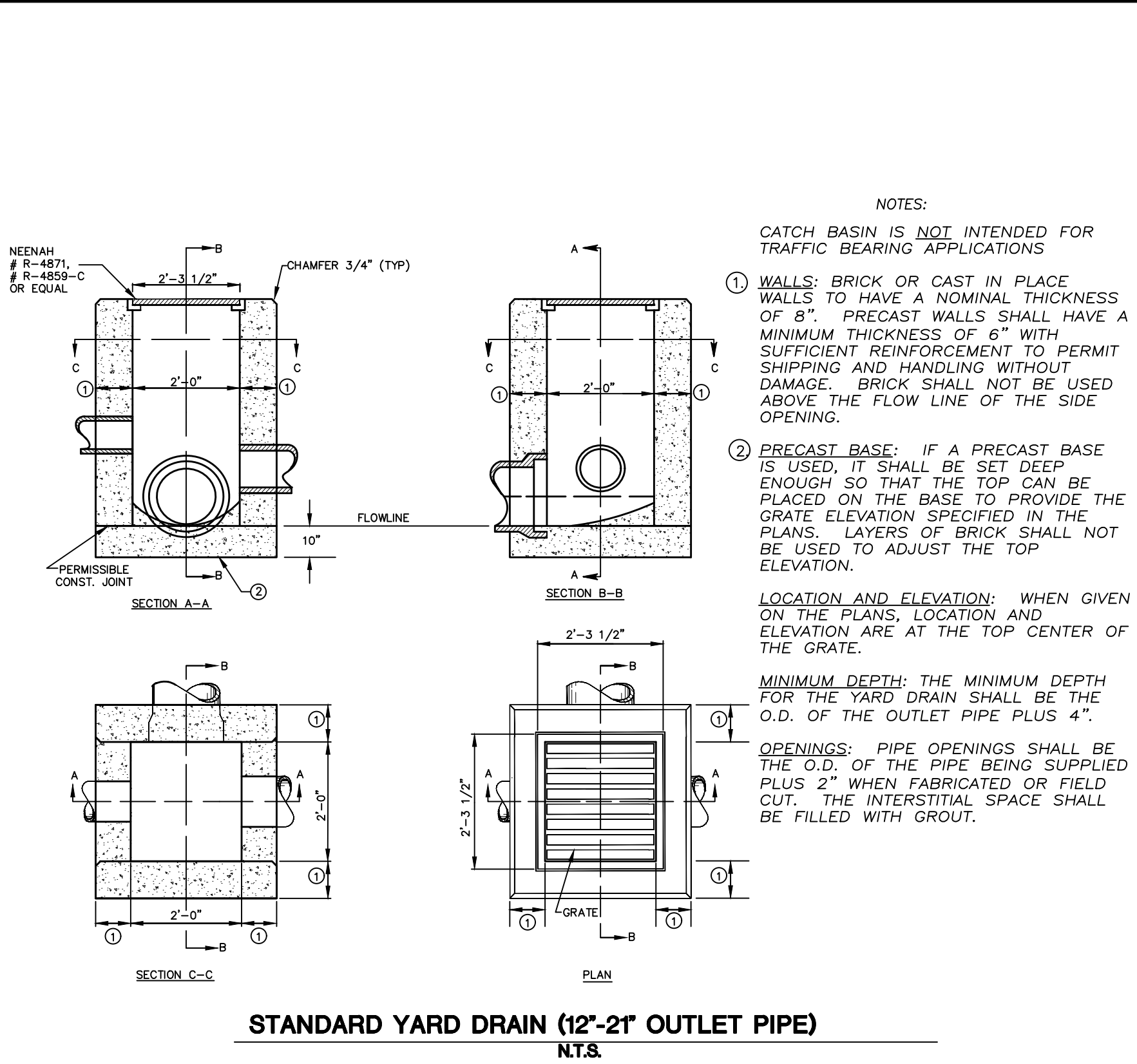
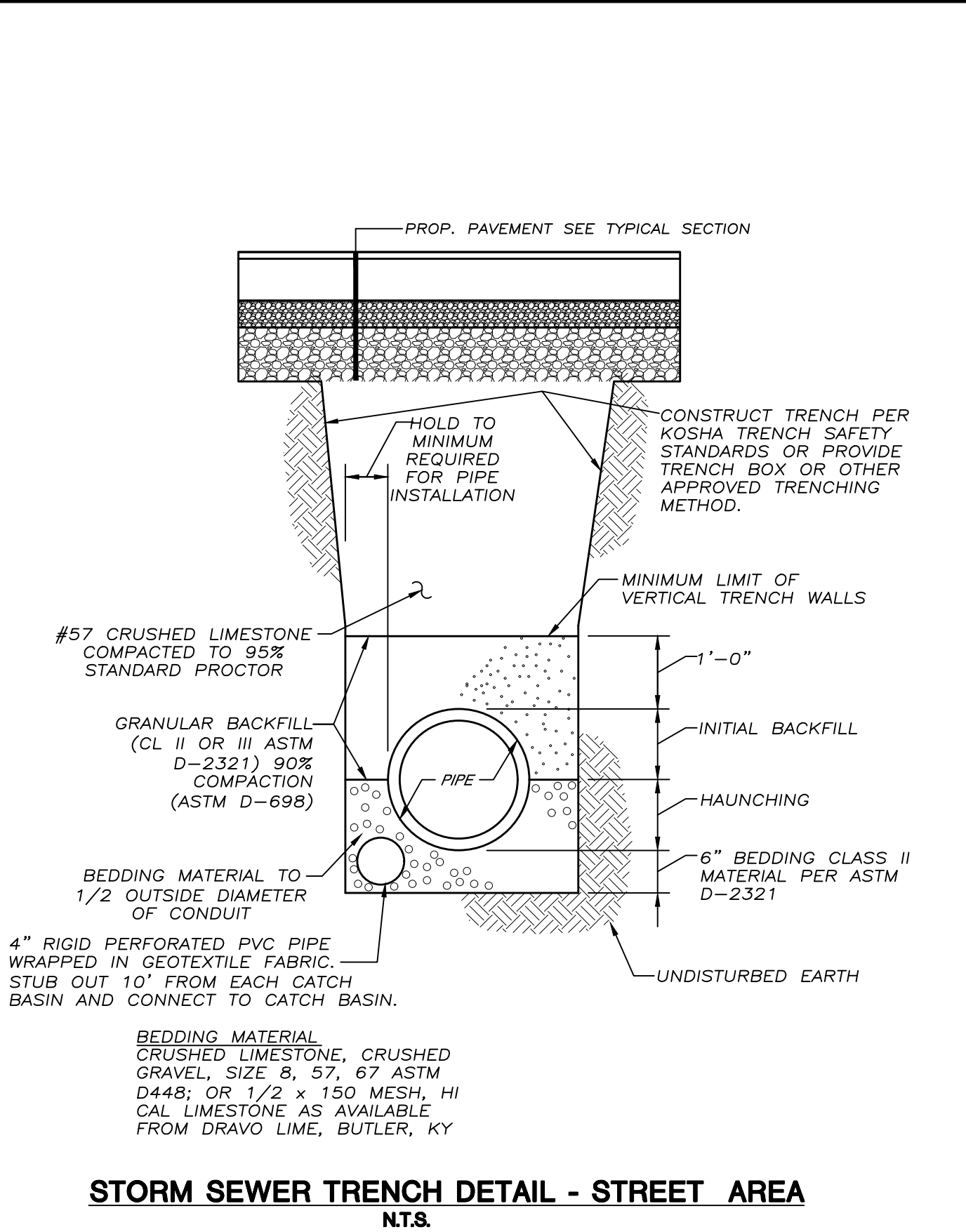
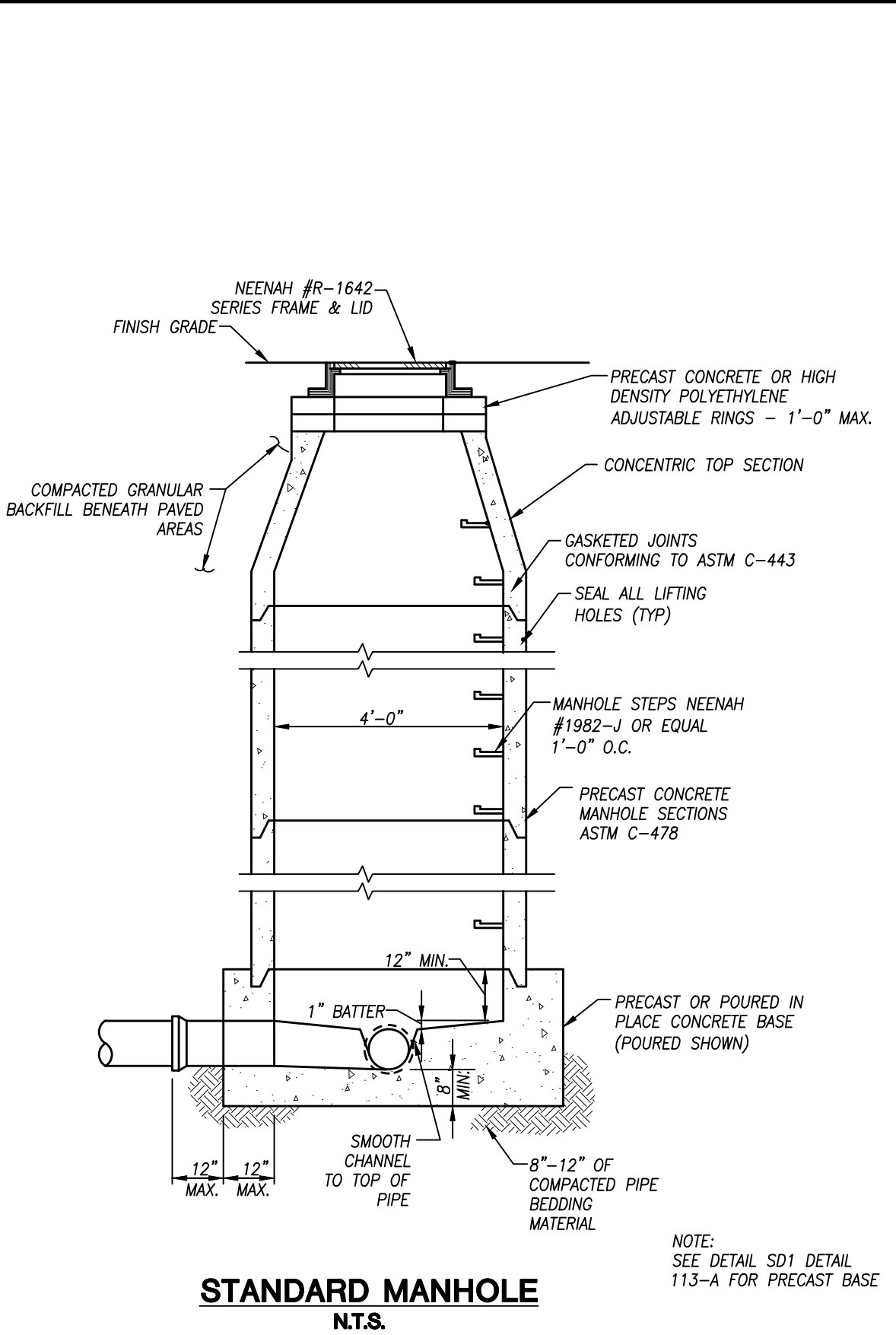
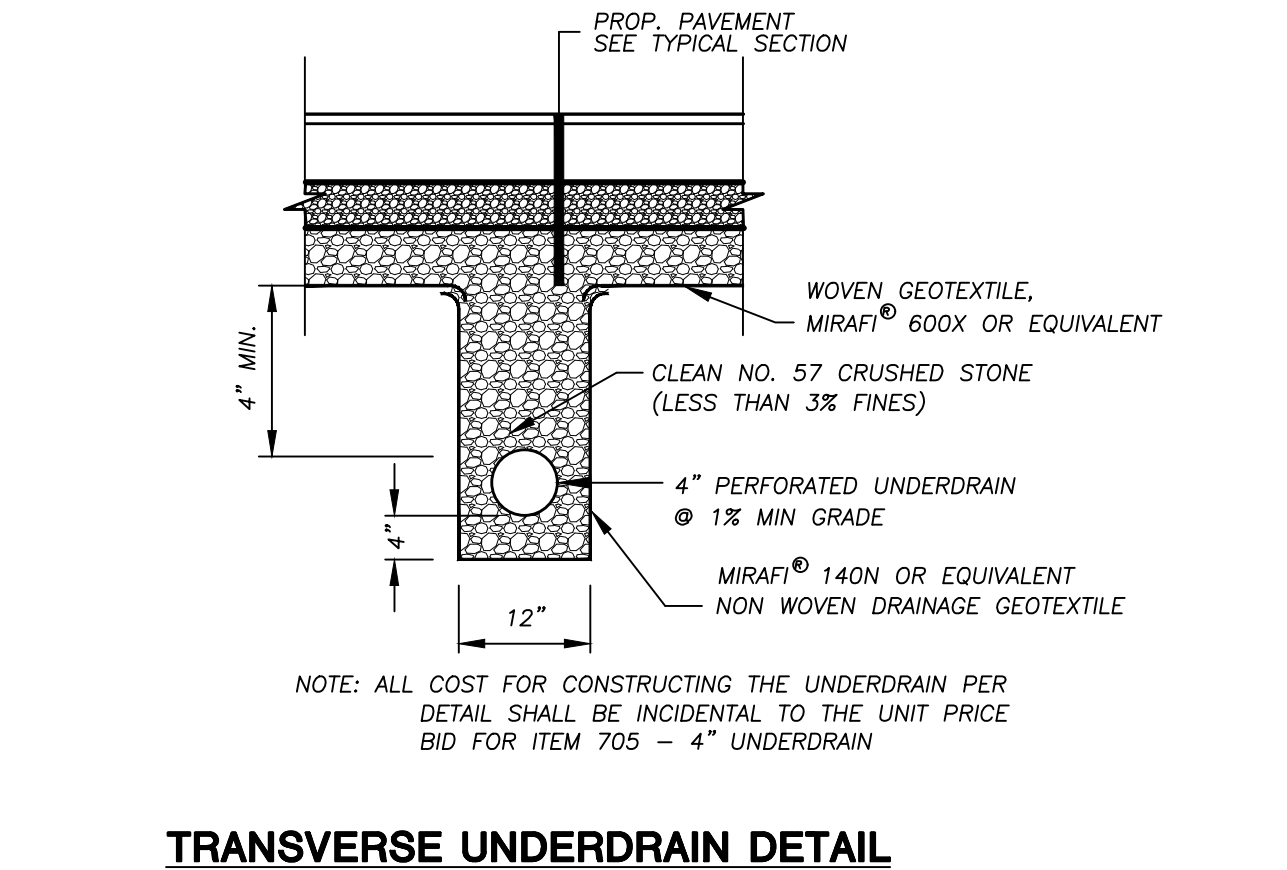
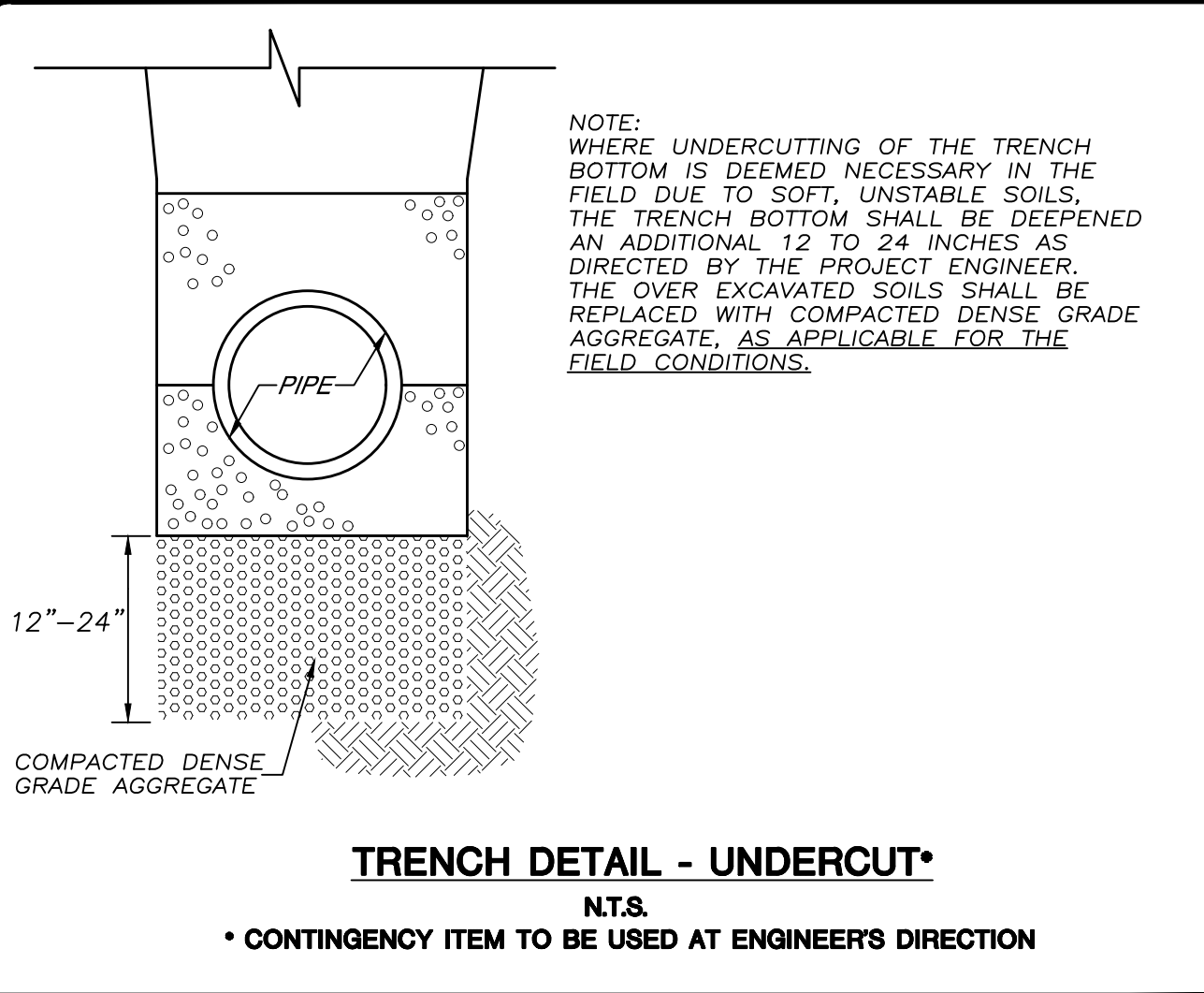
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AMSTERDAM ROAD
RECONSTRUCTION
CITY OF FORT WRIGHT, KY.

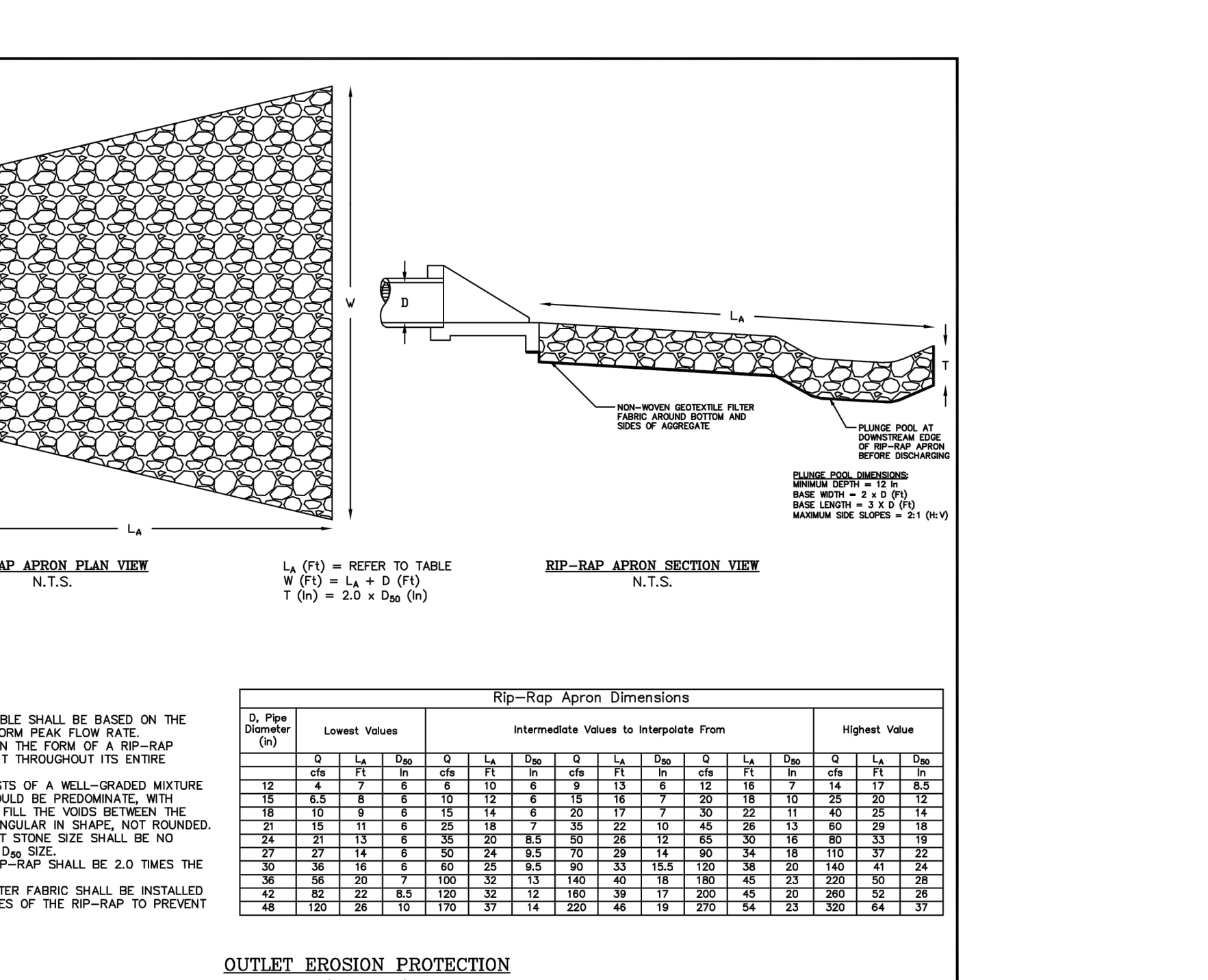
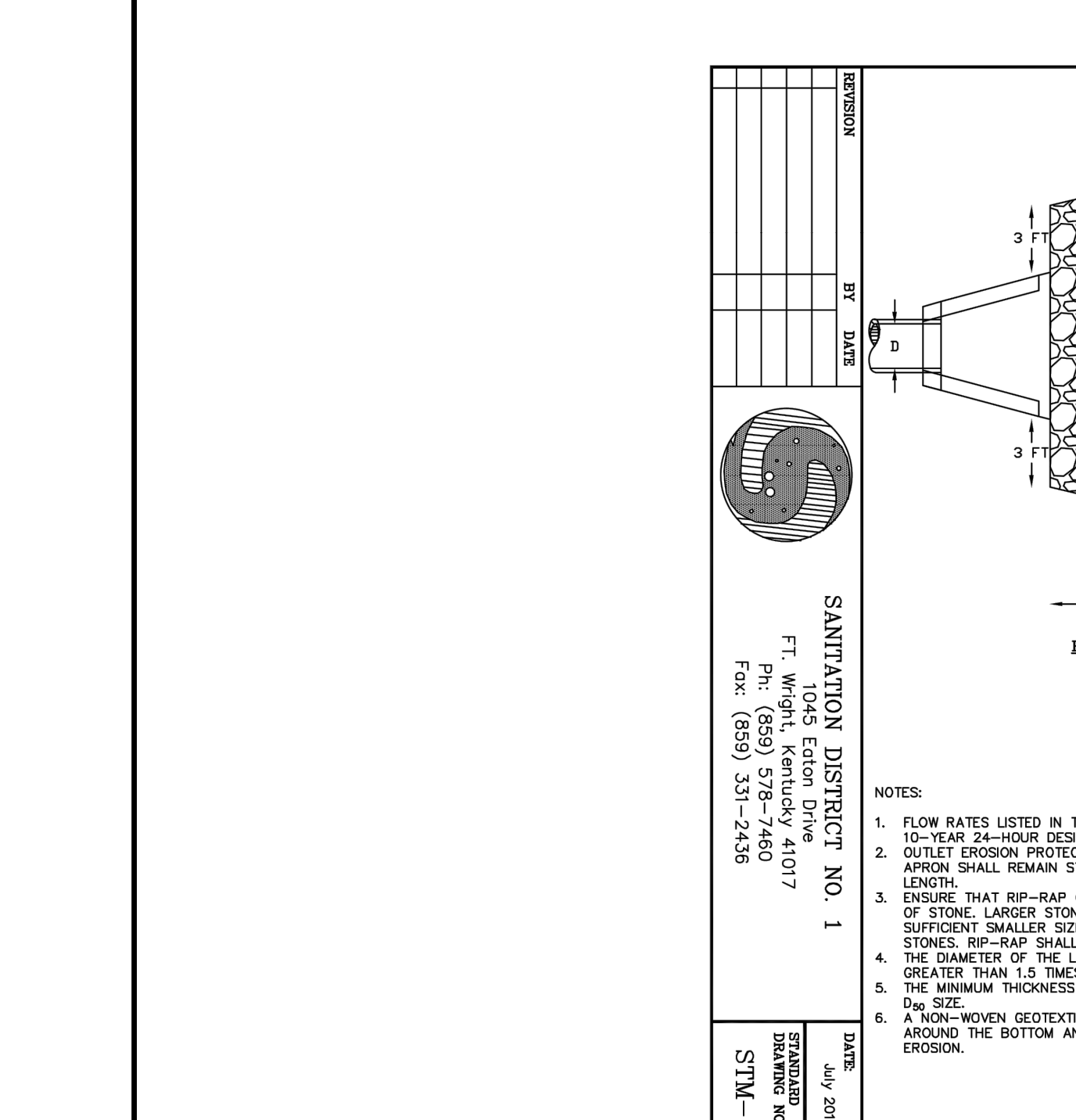
TITLE SHEET

ITEM NO: 6-438	
PROJECT NO: 160777	
DRAWING NAME TTL	
SHEET 1	OF 40





1. CONCRETE BRICK OR SLAB BLOCK MAY BE USED IN PLACE OF PRECAST OR CAST IN PLACE CONCRETE. BLOCK OR BRICK SIDEWALLS SHALL BE 8" NOMINAL THICKNESS W/ HORIZONTAL REINFORCEMENT EVERY 16 INCHES. PARGE WITH 1/2" MORTAR, INSIDE AND OUT.
2. SINGLE INLET: FRAME, GRATE AND CURB PLATE - NEENAH R-3289-HV OR APPROVED EQUAL.
3. DOUBLE INLET: FRAME, GRATE AND CURB PLATE - NEENAH R-3288-HV2 OR APPROVED EQUAL.
4. 5-6 X 12.5 X 6" STEEL BEAM (USE WITH SEPERATE OR BOLTED INLETS).
5. 4" MIN. DEPTH 4000 PSI AE CONCRETE WITH SCRIBED INVERT.
6. 6" MIN. DEPTH 4000 PSI AE CONCRETE EXTENDED MIN. 8" BEYOND EXTERIOR OF BOX.
7. 12" MINIMUM DIAMETER PIPE.
8. SEAL ALL LIFTING HOLES AND JOINTS (INSIDE & OUT).



your trusted advisor
engineers
architects
planners
consultants

DATE

REVISION

NO

SCALE: AS SHOWN

DATE: 2/13/2020

DESIGNED BY: MHEL

DRAWN BY: JCOR

CHECKED BY: MHEL

AMSTERDAM ROAD
RECONSTRUCTION
CITY OF FORT WRIGHT, KY.

DETAIL SHEET

ITEM NO:
6-438

PROJECT NO:
160777

DRAWING NAME
DT-2

SHEET
3

OF
40

SEDIMENT BASINS

DEFINITION
A TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A WATERCOURSE OR AT OTHER SUITABLE LOCATION TO RETAIN SEDIMENT AND OTHER WATERBORNE DEBRIS.

SCOPE
THIS STANDARD ESTABLISHES MINIMUM ACCEPTABLE QUALITY FOR THE DESIGN AND CONSTRUCTION OF TEMPORARY SEDIMENT BASINS FORMED BY AN EMBANKMENT, EXCAVATION OR A COMBINATION OF EMBANKMENT AND EXCAVATION. THE STANDARD IS LIMITED TO SITES WHERE:

- FAILURE OF THE STRUCTURE WOULD NOT RESULT IN LOSS OF LIFE, DAMAGE TO HOMES, COMMERCIAL OR INDUSTRIAL BUILDINGS, DAMAGE TO HIGHWAYS OR RAILROADS OR INTERRUPTION OF USE OR SERVICE OF PRIVATE UTILITIES.
- THE HEIGHT OF DAM IS 25 FEET OR LESS, AS MEASURED FROM THE NATURAL STREAMBED AT THE CENTERLINE OF DAM TO THE TOP OF DAM.
- THE TOTAL VOLUME OF STORAGE IS 150 ACRE-FEET OR LESS.
- THE DRAINAGE AREA IS 100 ACRES OR LESS.
- THE BASIN WILL BE REMOVED WITHIN A THREE-YEAR PERIOD AFTER CONSTRUCTION.

PURPOSE
TEMPORARY SEDIMENT BASINS ARE USED AS A MEANS OF TRAPPING AND STORING SEDIMENT FROM ERODING AREAS IN ORDER TO PROTECT DOWNSTREAM AREAS FROM DAMAGE RESULTING FROM SEDIMENTATION AND WATERBORNE DEBRIS.

CONDITIONS WHERE PRACTICE APPLIES
TEMPORARY SEDIMENT BASINS APPLY WHERE PHYSICAL SITE CONDITIONS OR OTHER RESTRICTIONS PRECLUDE THE INSTALLATION OF EROSION CONTROL MEASURES TO ADEQUATELY CONTROL EROSION AND SEDIMENTATION. IT MAY BE USED DOWNSLOPE FROM CONSTRUCTION OPERATIONS WHICH EXPOSE AREAS TO EROSION. TEMPORARY SEDIMENT BASINS WILL BE REMOVED AFTER THE EXPOSED AREAS ARE ADEQUATELY PROTECTED AGAINST EROSION BY VEGETATIVE OR MECHANICAL MEANS.

COMPLIANCE WITH LAWS AND REGULATIONS
DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS.

LOCATION
TO IMPROVE THE EFFECTIVENESS OF THE BASIN, IT SHOULD BE LOCATED SO AS TO INTERCEPT THE LARGEST POSSIBLE AMOUNT OF RUNOFF FROM THE DISTURBED AREA. THE BEST LOCATIONS ARE GENERALLY LOW AREAS AND NATURAL DRAINAGEWAYS BELOW DISTURBED AREAS. DRAINAGE INTO THE BASIN CAN BE IMPROVED BY THE USE OF DIVERSION DIKES AND DITCHES. THE BASIN MUST NOT BE LOCATED IN A LIVE STREAM BUT SHOULD BE LOCATED TO TRAP SEDIMENT-LADEN RUNOFF BEFORE IT ENTERS THE STREAM. THE BASIN SHOULD NOT BE LOCATED WHERE ITS FAILURE WOULD RESULT IN THE LOSS OF LIFE OR IN INTERRUPTION OF THE USE OR SERVICE OF PUBLIC UTILITIES OR ROADS.

MULTIPLE USE
SEDIMENT BASINS MAY BE DESIGNED AS PERMANENT STRUCTURES TO REMAIN IN PLACE AFTER CONSTRUCTION IS COMPLETED. SITE CONDITIONS MAY MAKE THE USE OF THESE STRUCTURES DESIRABLE FOR STORMWATER DETENTION PURPOSES. WHEREVER THESE STRUCTURES ARE TO BECOME PERMANENT, OR IF THEY EXCEED THE SIZE LIMITATIONS OF THE DESIGN CRITERIA, THEY MUST BE DESIGNED AS PERMANENT PONDS BY A QUALIFIED PROFESSIONAL ENGINEER. PERMANENT PONDS ARE BEYOND THE SCOPE OF THESE STANDARDS AND SPECIFICATIONS. THE PERMANENT STRUCTURES MUST BE SUBMITTED WITH CONSTRUCTION DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE CITY ENGINEER.

MAINTENANCE BASINS SHALL BE CHECKED WEEKLY AND CLEANED WHEN NO LONGER EFFECTIVE.

STORM DRAIN INLET PROTECTION

DEFINITION
A SEDIMENT FILTER INSTALLED AROUND A STORM DRAIN INLET OR CURB INLET TO REDUCE SEDIMENT DISCHARGE.

PURPOSE
TO PREVENT SEDIMENT FROM ENTERING THE STORM DISCHARGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED DRAINAGE AREA. DIFFERENT TYPES OF STRUCTURES ARE APPLICABLE TO DIFFERENT CONDITIONS.

STORM WATER POLLUTION PREVENTION NOTES

- SANITATION DISTRICT NO. 1 IS TO BE CONTACTED 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY AT 859-578-6892
- ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED AS SHOWN ON THE PLANS, AND SHALL BE IN COMPLIANCE WITH THE LATEST CONSTRUCTION ACTIVITY "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" RULES AND REGULATIONS.
- A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND A COPY OF THE "NOTICE OF INTENT" (NOI) SHALL BE KEPT ON SITE.
- AN AMENDMENT OF THE SWPPP IS REQUIRED WHENEVER A CHANGE IN DESIGN, CONSTRUCTION, AND OPERATION OR MAINTENANCE HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS, OR IF THE SWPPP PROVES TO BE INEFFECTIVE IN ACHIEVING THE GENERAL OBJECTIVES OF THE SWPPP.
- THE CONTRACTOR SHALL ALSO MAINTAIN THE FOLLOWING RECORDS ON SITE:
A. GENERAL CONTRACTOR AND/OR SUBCONTRACTOR SWPPP CERTIFICATIONS
B. THE DATE, TIME, AND EXACT LOCATION OF THE INSPECTION, AND THE NAME OF THE INSPECTOR
C. AN ASSESSMENT OF THE CONDITION OF THE EROSION CONTROLS
D. A DESCRIPTION OF ANY EROSION CONTROL IMPLEMENTATION AND MAINTENANCE PERFORMED
E. A DESCRIPTION OF THE PRESENT PHASE OF CONSTRUCTION AT THE SITE
- CONSTRUCTION SEQUENCE
 - ALL PERIMETER SILT FENCE, INLET PROTECTION AND OTHER EROSION CONTROLS SHALL BE IN PLACE BEFORE ANY OTHER EARTH MOVING ACTIVITIES BEGIN.
 - THE CONTRACTOR SHALL CLEAR AND GRUB ONLY THE AREAS PLANNED FOR EARTH MOVING.
 - REMOVE TOPSOIL, STOCKPILE IT, AND INSTALL SILT FENCE AROUND PERIMETER.
 - SEED SOIL STOCKPILE WITH PERENNIAL RYE GRASS AND MULCH WITH STRAW IF NO TO BE DISTURBED FOR MORE THAN 21 DAYS.
 - CONSTRUCT DETENTION BASIN AND CONTROL STRUCTURE. DETENTION BASIN SHALL BE USED AS A SEDIMENT BASIN UNTIL THE SITE IS STABILIZED.
 - INSTALL STORM SEWER SYSTEM AND SURFACE STORM INLET AND MANHOLE PROTECTION.
 - ESTABLISH A TEMPORARY SEEDING ON ALL BARE AREAS THAT ARE TO REMAIN UNDISTURBED FOR MORE THAN 21 DAYS. SEED WITH PERENNIAL RYE GRASS MULCH WITH STRAW.
 - IMMEDIATE AFTER TOPSOIL HAS BEEN PLACED, STABILIZE THE SAME SURFACE AREA WITH FINAL SEED AND MULCH 7 DAYS AFTER REACHING FINAL GRADE.
 - AFTER THE VEGETATION HAS BECOME WELL ESTABLISHED, REMOVE TEMPORARY EROSION OR SEDIMENT CONTROL PRACTICES.
- EROSION CONTROLS MUST BE INSPECTED ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF 0.5" OR GREATER RAINFALL. REMOVE ACCUMULATED SEDIMENT FROM EROSION CONTROLS.
- TEMPORARY SEEDING SHALL BE PERENNIAL RYE GRASS (40 LB / ACRE) AND MULCH AT 3 BALES OF STRAW PER 1000 S.F.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING BORROW MATERIAL ONSITE AND / OR DISPOSING OF EXCESS MATERIAL OFF SITE AS REQUIRED TO MEET INDICATED DESIGN ELEVATIONS.
- DEBRIS SHALL BE COLLECTED WITHIN PROPERTY LIMITS WEEKLY OR AS NEEDED FOR PUBLIC SAFETY. SURROUNDING STREETS AFFECTED BY THE CONSTRUCTION SHALL BE CLEANED DAILY OR AS NEEDED FOR PUBLIC SAFETY. SEE CONSTRUCTION ENTRANCE DETAIL IN SWPPP DETAILS SHEET.
- THE CONSTRUCTION OF BMPs SHALL BE REVISED OR ADDED IF DEEMED NECESSARY PER SECTION 1000 OF THE SANITATION DISTRICT 1 REGULATIONS.
- CONTACT SANITATION DISTRICT NO. 1 72 HOURS PRIOR TO INSTALLATION OF THE WATER QUALITY FEATURE.

NOTES:

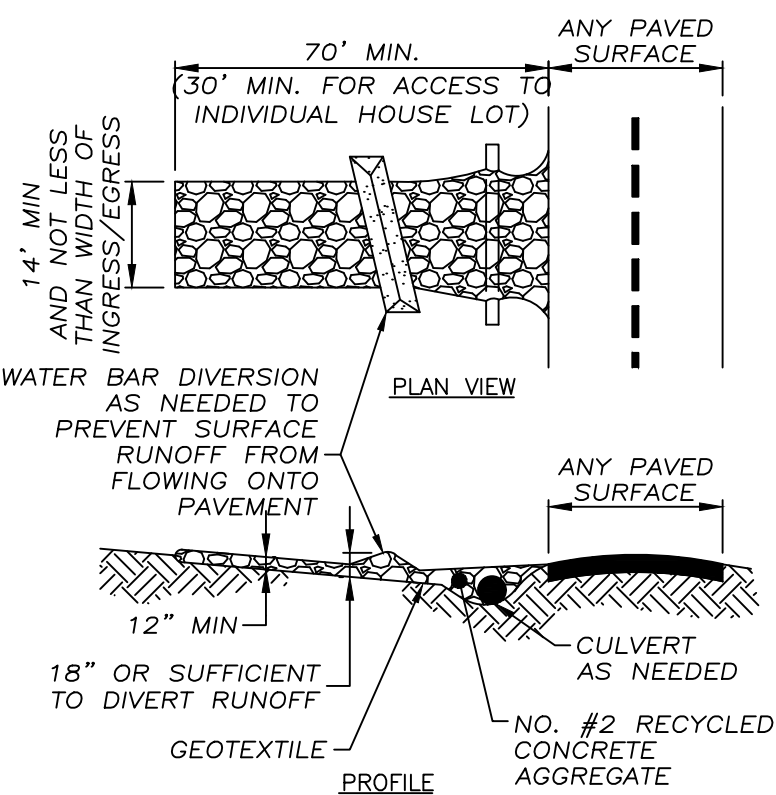
- SUBSOILING SHALL OCCUR WHEN SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING IS NOT PERMITTED ON SLIP-PRONE AREAS.
- THE SITE SHALL BE GRADED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
- TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.
- THE SEEDBED SHALL BE PREPARED BY APPLYING AGRICULTURAL GROUND LIME OR FERTILIZER AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, APPLY LIME AT 2 TONS/AC. OR FERTILIZER AT 500 LB/AC. OF 10-10-10 OR 12-12-12 ANALYSIS. LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 3".
- APPLY SEED UNIFORMLY ON FIRM, MOIST SEED BED.
- SEEDING SHOULD BE APPLIED FROM MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THESE DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHALL OCCUR WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND.
- SEEDING SHOULD NOT BE APPLIED FROM OCTOBER 1 TO NOVEMBER 20 BECAUSE SEEDS MAY GERMINATE, BUT WILL NOT SURVIVE THE WINTER. USE THE FOLLOWING METHODS FOR DORMANT SEEDING:
 - FROM OCTOBER 1 TO NOVEMBER 20, INCREASE THE SEEDING RATE BY 50%, PREPARE THE SEED BED, ADD LIME AND FERTILIZER, MULCH AND ANCHOR.
 - FROM NOVEMBER 20 TO MARCH 15, ONLY IF SOIL CONDITIONS PERMIT, INCREASE THE SEEDING RATE BY 50%, PREPARE THE SEED BED, ADD LIME AND FERTILIZER, APPLY THE SEED MIXTURE, MULCH AND ANCHOR.
- APPLY MULCH MATERIAL IMMEDIATELY AFTER SEEDING.
- PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED. AVOID EXCESSIVE IRRIGATION AND MONITOR TO PREVENT EROSION AND DAMAGE FROM RUNOFF.
- PERMANENT SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF PLANTING. DURING THIS PERIOD, INSPECT FOR SOIL EROSION OR PLANT LOSS AND REPAIR BARE OR SPARSE AREAS. FILL GULLIES, RE-FERTILIZE, RE-SEED OR RE-MULCH AS NEEDED.
- A MINIMUM OF 70% GROWTH DENSITY, BASED ON A VISUAL INSPECTION, MUST EXIST FOR AN ADEQUATE PERMANENT VEGETATIVE PLANTING.

PERMANENT SEEDING FERTILIZATION AND MOWING CHART				
MIXTURE	FORMULA	LB./AC.	TIME	MOW
CREeping RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	10-10-10	500	FALL, YEARLY, OR AS NEEDED	≥3"
TALL FESCUE	10-10-10	500		≥4"
TURF-TYPE FESCUE	10-10-10	500		
CROWN VETCH FESCUE	0-20-20	400	SPRING, AND YEARLY AFTER ESTABLISHED	DO NOT MOW
FLAT PEA FESCUE	0-20-20	400		

PERMANENT SEEDING SPECIES SELECTION			
SEED MIX	SEED RATE LB./AC.	NOTES:	
GENERAL USE			
CREeping RED FESCUE DOMESTIC RYEGRASS KENTUCKY BLUEGRASS	20 - 40 10 - 20 20 - 40	FOR CLOSE MOWING AND WATERWAYS WITH ≤2.0 FT./SEC. VELOCITY	
TALL FESCUE	40 - 50		
TURF-TYPE FESCUE	90		
STEEP BANKS OR CUT SLOPES			
TALL FESCUE	40 - 50		
CROWN VETCH TALL FESCUE	10 - 20 20 - 30	DO NOT SEED LATER THAN AUGUST	
FLAT PEA TALL FESCUE	20 - 25 20 - 30	DO NOT SEED LATER THAN AUGUST	
ROAD DITCHES AND SWALES			
TALL FESCUE	40 - 50		
TURF-TYPE FESCUE KENTUCKY BLUEGRASS	90 5		
LAWN			
KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	100 - 120 100 - 120		
KENTUCKY BLUEGRASS CREeping RED FESCUE	100 - 120 100 - 120	FOR SHADED AREAS	

PERMANENT SEEDING DETAIL

SCALE: NONE



NOTES:

- PLACE GEOTEXTILE OVER THE ENTIRE AREA PRIOR TO PLACING STONE MEETING THE MIN. SPECIFICATIONS:
 - A. TENSILE STRENGTH = 200 LBS.
 - B. PUNCTURE STRENGTH = 80 PSI
 - C. TEAR STRENGTH = 50 LBS.
 - D. BURST STRENGTH = 320 PSI
 - E. ELONGATION = 20%
 - F. EQUIVALENT OPENING SIZE ≤ 0.6 MM
 - G. PERMITTIVITY = 0.001 CM/SEC
- APPLY ADDITIONAL STONE AS CONDITIONS DEMAND AND REFRESHEN STONE WHEN THE DEPTH IS LESS THAN 6". REMOVE AND REPLACE IF STONES BECOMES MUD-LADEN.
- IMMEDIATELY REMOVE MUD DROPPED, WASHED OR TRACKED ONTO ROADS OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS BY SCRAPING OR SWEEPING.
- CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES OR TO PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SITE SHALL BE RESTRICTED FROM MUDDY AREAS.

CONSTRUCTION ENTRANCE

SCALE: NONE

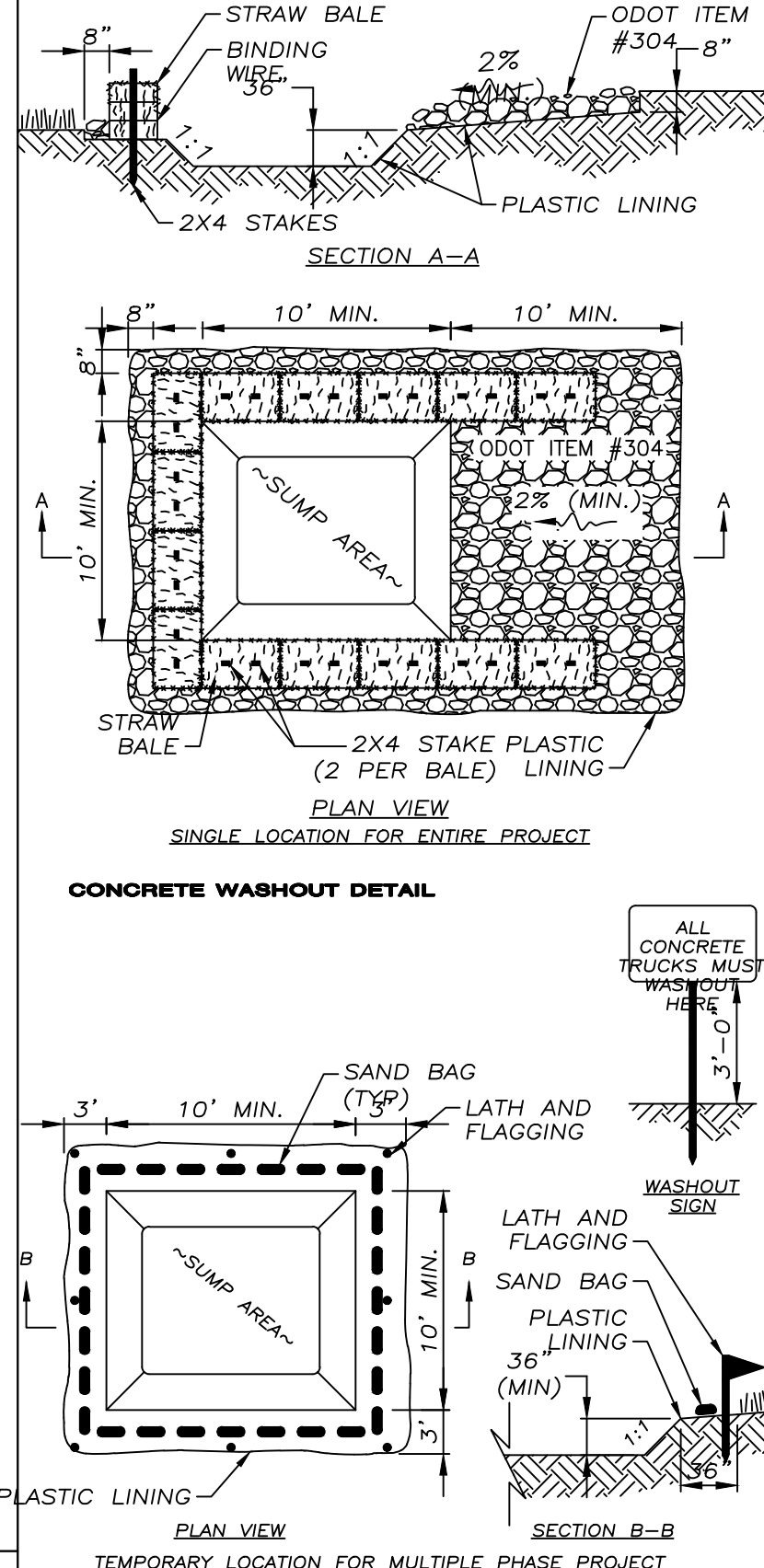
NOTES:

- THE SEED BED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION.
- SOIL AMENDMENTS MAY BE REQUIRED TO ESTABLISH ADEQUATE VEGETATION. PERFORM SOIL TESTS ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
- APPLY SEED UNIFORMLY. COVER BROADCASTED SEED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPING INTO PLACE.
- APPLY MULCHING IMMEDIATELY AFTER SEEDING.
- SEEDING SHALL BE INSPECTED FOR BARE SPOTS AND WASHOUTS, AND RESEED AS NECESSARY.

TEMPORARY SEEDING SPECIES SELECTION			
DATES	SPECIES	LB/1,000 SF	LB/AC.
MARCH 1 TO AUGUST 15	OATS TALL FESCUE PERENNIAL RYEGRASS	3 1 1	128 40 40
AUGUST 16 TO NOVEMBER 1	PERENNIAL RYEGRASS TALL FESCUE	2 1	40 40
AUGUST 16 TO NOVEMBER 1	RYE TALL FESCUE PERENNIAL RYEGRASS	3 1 1	112 40 40
AUGUST 16 TO NOVEMBER 1	WHEAT TALL FESCUE PERENNIAL RYEGRASS	3 1 1	120 40 40
AUGUST 16 TO NOVEMBER 1	PERENNIAL RYEGRASS TALL FESCUE	2 1	40 40
NOVEMBER 1 TO ONLY MULCH OR DORMANT SEEDING.			

TEMPORARY SEEDING DETAIL

SCALE: NONE

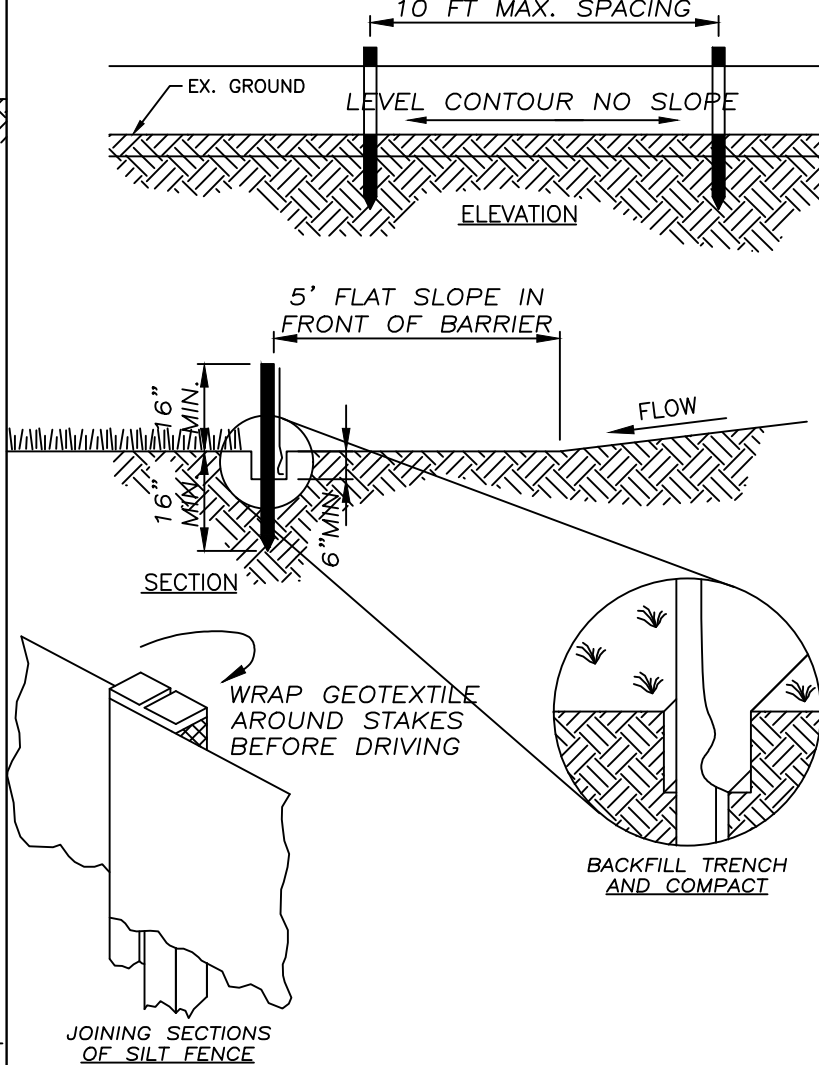


TEMPORARY LOCATION FOR MULTIPLE PHASE PROJECT

SCALE: NONE

- WASHOUT PIT SHALL BE LOCATED 100' MINIMUM FROM INLETS, STREAMS, WETLANDS AND ANY OTHER SURFACE WATERS.
- ALL EXCESS CONCRETE AND CONCRETE WASHOUT, INCLUDING FROM HAND MIXERS AND LIGHT EQUIPMENT, SHALL BE DISPOSED OF IN THE CONCRETE WASHOUT AREA. DISPOSAL OF EXCESS CONCRETE OR CONCRETE WASHOUT ON THE GROUND, OR IN STORM DRAINS, DITCHES OR WATER BODIES, IS PROHIBITED.
- CONCRETE WASHOUT AREA SHALL BE SUFFICIENT SIZE TO CONTAIN CONCRETE WASTE GENERATED. FOR LARGER SITES, MULTIPLE CONCRETE WASHOUT AREAS MAY BE REQUIRED.
- IF CONCRETE WASHOUT AREA IS LOCATED AWAY FROM A PAVED SURFACE, CONSTRUCT A GRAVEL ACCESS ROUTE EQUAL IN COMPOSITION TO THE CONSTRUCTION ENTRANCE.
- PLASTIC LINING SHALL BE DOUBLE-LINED, CONTINUOUS 10-ML POLYETHYLENE SHEETING FREE OF HOLES, TEARS OR OTHER DEFECTS, AND INSTALLED ON A SMOOTH, LEVEL SURFACE, FREE OF ROCKS OR DEBRIS.
- CONCRETE WASHOUT SIGNAGE SHALL BE CLEARLY VISIBLE AND LOCATED WITHIN 30 FEET OF EACH WASHOUT AREA.
- CONCRETE WASHOUT AREAS SHALL BE COVERED DURING INCLEMENT WEATHER TO PREVENT OVERFLOWS.
- PREFABRICATED, PORTABLE AND RE-USABLE CONCRETE WASHOUT CONTAINERS ARE ACCEPTABLE, BUT MUST BE SPECIFICALLY DESIGNED FOR CONCRETE WASHOUT USE.
- CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY TO CHECK FOR DAMAGE AND TO DETERMINE IF IT NEEDS CLEANED OR REPLACED. ANY DAMAGE TO THE SIDEWALLS OR POLYETHYLENE SHEETING SHALL BE REPAIRED IMMEDIATELY. THE CONCRETE WASHOUT AREA SHALL BE CLEANED OR REPLACED WHEN IT IS 75% FULL. THE POLYETHYLENE SHEETING SHALL BE REPLACED AFTER EACH CLEANING.
- SAW CUT CONCRETE, RESIDUE FROM SAW CUT, AND GRINDINGS SHALL BE DISPOSED OF IN THE WASHOUT PIT.

SCALE: NONE



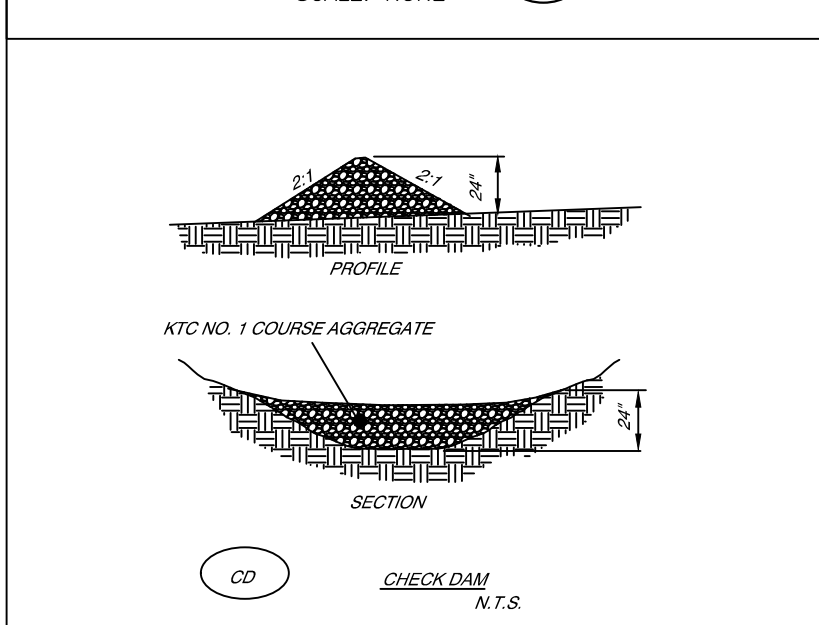
NOTES:

- PRESERVE VEGETATION FOR 5 FEET, OR AS MUCH AS POSSIBLE, UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE RE-ESTABLISHED WITHIN 7 DAYS FROM SILT FENCE INSTALLATION.
- SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. PERFORM ONE OF THE FOLLOWING IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW:
 - CHANGE THE LAYOUT OF THE SILT FENCE.
 - REMOVE ACCUMULATED SEDIMENT.
 - INSTALL OTHER PRACTICES.

FABRIC PROPERTIES	VALUES	TEST METHOD
GRAB TENSILE STRENGTH	90 LB. MIN	ASTM D-1682
MULLEN BURST STRENGTH	190 PSI MIN	ASTM D-3786
SLURRY FLOW RATE	0.3 GAL./MIN./S.F. MAX.	
EQUIVALENT OPENING SIZE	40-80	US STD. SIEVE CW-02215
ULTRAVIOLET RADIATION STABILITY	90% MIN	ASTM-G-26

SILT FENCE

SCALE: NONE



SCALE: NONE



SCALE: NONE

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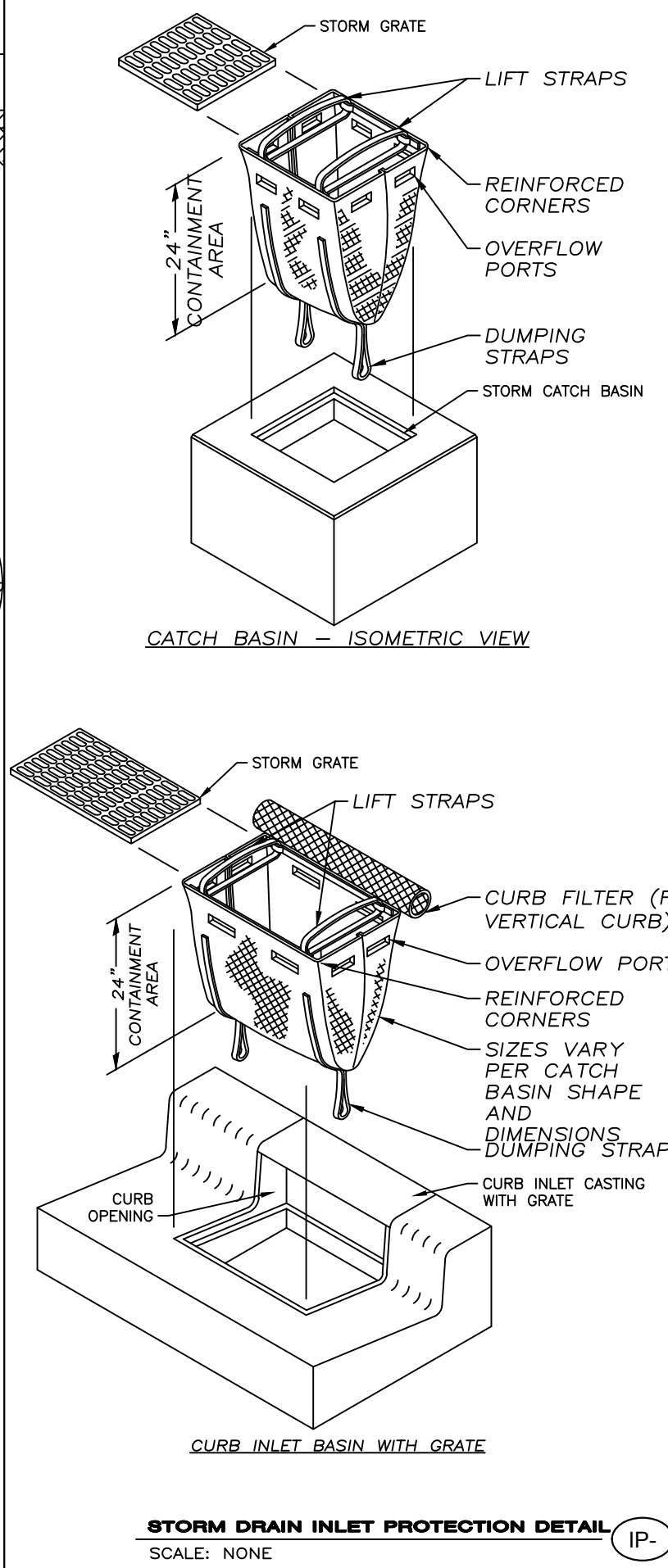
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STORM DRAIN INLET PROTECTION DETAIL

SCALE: NONE

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RIGHT OF WAY SUMMARY

PARCEL NO.	OWNER(S)	TOTAL AREA OF TRACT		PERMANENT R/W ACQUIRED		EASEMENTS		AREA SEVERED				EXCESS PURCHASED		PORTION REMAINING		SEWER SYSTEM TYPE	SEWER SYSTEM AFFECTED BY PROJECT		BUILDINGS ACQUIRED NUMBER					SOURCE OF TITLE	REMARKS*
		ACRES	SQ. FT.	ACRES	SQ. FT.	PERMANENT	TEMPORARY	LEFT		RIGHT		ACRES	SQ. FT.	ACRES	SQ. FT.		YES	NO	C	R	F	S			
						SQ. FT.	SQ. FT.	ACRES	SQ. FT.	ACRES	SQ. FT.														
1	ADAM D. FEINAUER, ADAM W. FEINAUER & KEITH G. FEINAUER	1.63	71,003	0.018	768		624							1.612		P		X					VOL. C6041, PG 122	PN 027-40-01-019.00	
2	CB PROPERTY HOLDINGS	0.22	9,583	0.003	127		296							0.217		P		X					VOL. C5854, PG 242	PN 027-40-01-004.00	
3	CB PROPERTY HOLDINGS	0.15	6,534	0.001	44		221							0.149		P		X					VOL. C6015, PG 109	PN 027-40-01-003.00	
4	CB PROPERTY HOLDINGS	0.14	6,098		0		152							0.14		P		X					VOL. C4065, PG 241	PN 027-40-01-002.00	
5	STEPHEN A. SIMPSON	0.13	5,663		0		130							0.13		P		X					VOL. C6105, PG 277	PN 027-30-00-241.00	
6	JOSEPH A. CIARAMITARO, JR.	0.21	9,148		0		116							0.21		P		X					VOL. C4559, PG 109	PN 027-30-00-249.00	
7	RAYMOND C. AND ANN P. BOWMAN	0.11			0		0																	NO TAKE NEEDED	
8	MARY E. JOHNSON	0.05	2,178		0		284							0.05		P		X					VOL. C2222, PG 222	PN 027-30-00-246.00	
9	JEFFREY P. SNYDER AND AMY E. SOLOMON	0.23			0		0																	NO TAKE NEEDED	
10	WILLIAM T. AND AMY J. SPEARS	0.03			0		0																	NO TAKE NEEDED	
11	JODY N. BONAR	0.21	9,148		0		94							0.21		P		X					VOL. C5700, PG 230	PN 027-30-00-240.01	
12	DARLENE THOMPSON GIBBS	0.69			0		0																	NO TAKE NEEDED	
13	DALE E. AND CAROL A. VOELKER	0.18			0		0																	NO TAKE NEEDED	
14	GREGORY PARKER & JENNA L. HOERLEIN	0.19	8,276		0		173							0.19		P		X					VOL. C6516, PG 60	PN 027-30-00-212.00	
15	EDWARD P. AND KAREN M. STETTER	0.28	12,197		0		52							0.28		P		X					VOL. 879, PG 217	PN 027-30-00-211.00	
16	GREGORY J. AND LINDA M. WERBRICH	0.57	24,829		0		129							0.57		P		X					D.B 1213, PG 343 VOL. C2819, PG 332	PN 027-30-04-037.06	
17	JASPER HATTER AND PENNY HATTER	0.25			0		0																	NO TAKE NEEDED	
18	JEFFREY D. HAGEDORN	0.17			0		0																	NO TAKE NEEDED	
19	RICK D. McKENNEY	0.21			0		0																	NO TAKE NEEDED	
20	DONALD R. AND KAREN ELKINS	0.20	8,712		0		30							0.20		P		X					VOL. 1187, PG 110	PN 027-30-00-256.00	
21	RACHEL R. WILSON	0.21	9,148		0		84							0.21		P		X					VOL. C4293, PG 241	PN 027-30-00-254.00	
22	CRAIG AND YOLANDA BAKER	0.19	8,276		0		64							0.19		P		X					VOL. C2222, PG 222	PN 027-30-00-252.00	

NOTE: PERMANENT R/W ACQUIRED + AREA SEVERED = TOTAL AREA OF TRACT.

TYPE SEWER SYSTEM

1. PRIVATE - INDIVIDUAL
2. PRIVATE - MULTI PARTY
3. PUBLIC
4. NONE
5. NOT APPLICABLE

BUILDINGS ACQUIRED CODE

C - COMMERICAL
R - RESIDENTIAL
F - FARM
S - STORAGE

*INCLUDES HAZARDOUS WASTE
(UST - UNDERGROUND STORAGE TANKS)

AMSTERDAM ROAD
RECONSTRUCTION
CITY OF FORT WRIGHT, KY.

RIGHT OF WAY SUMMARY

ITEM NO:
6-438

PROJECT NO:
160777

DRAWING NAME
RW-1

SHEET
5

OF
40

your trusted advisor

consultants

engineers

architects

planners

DATE

REVISION

NO

SCALE: AS SHOWN

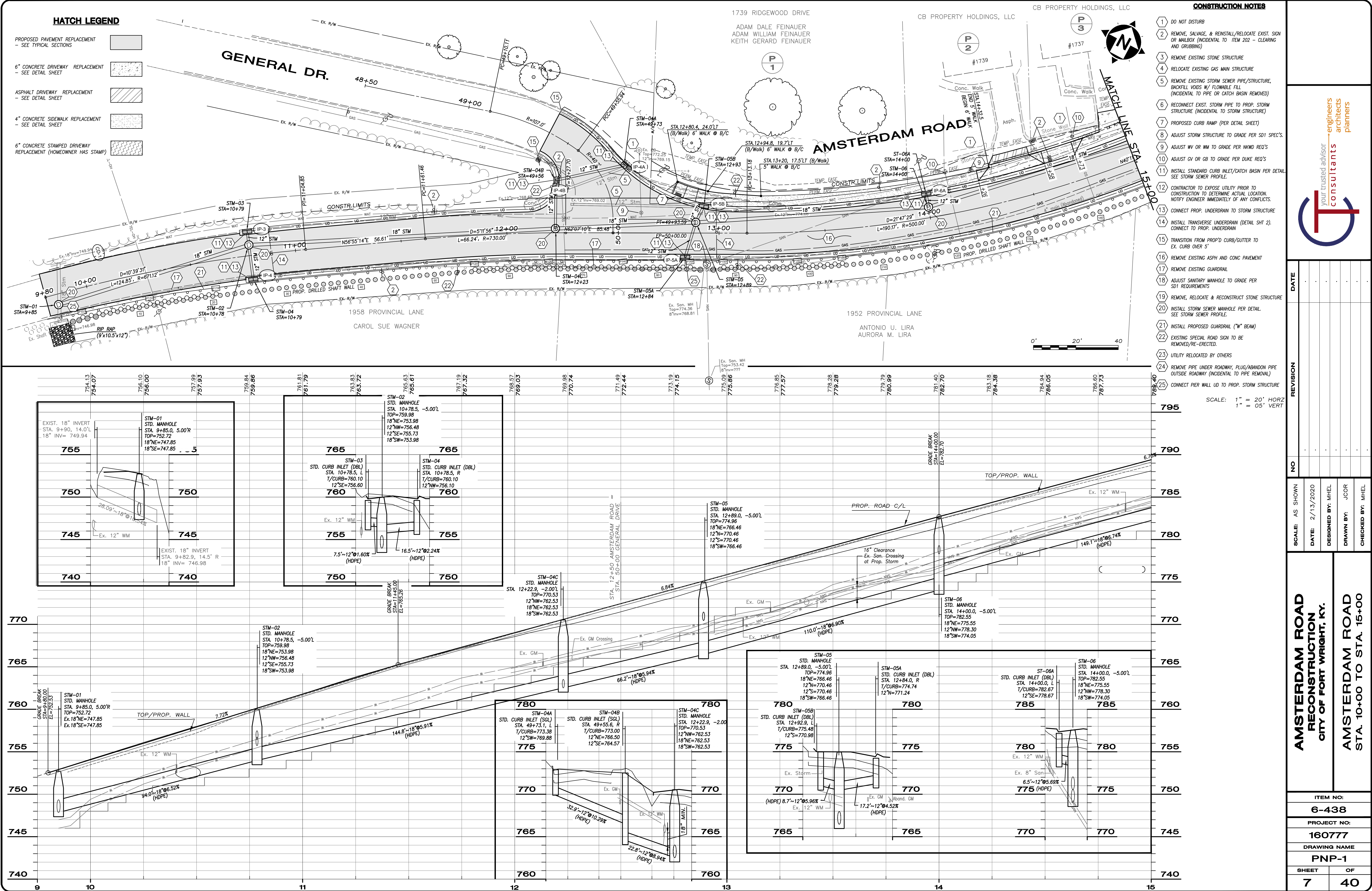
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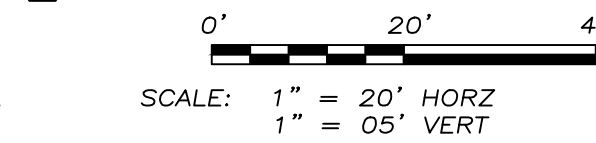
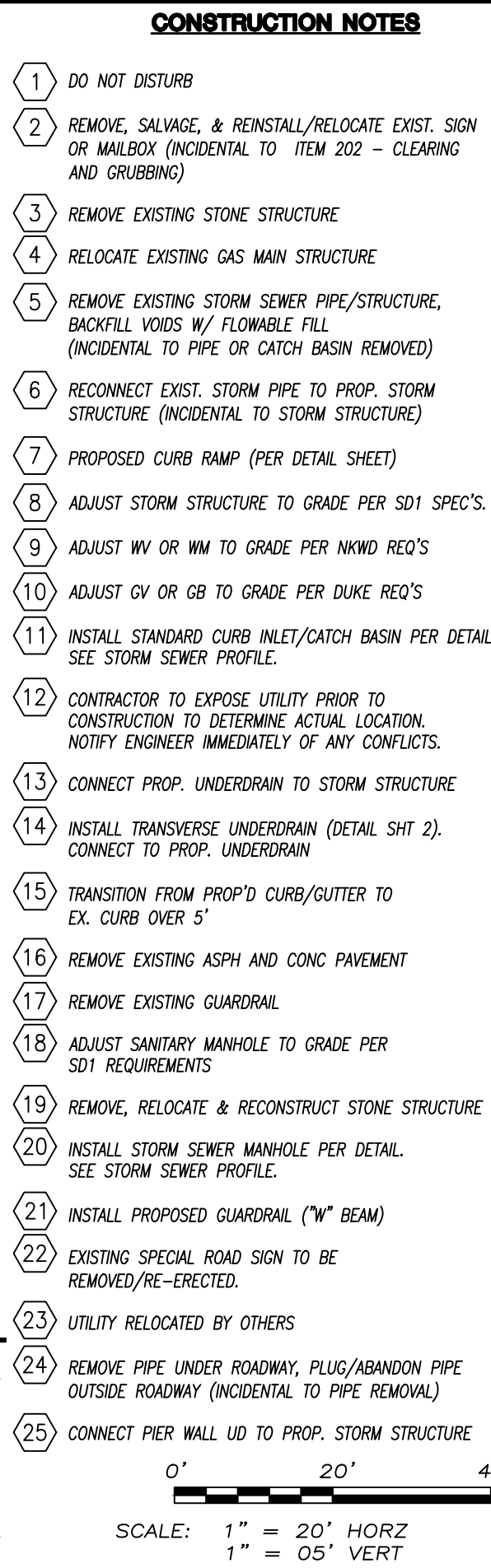
DESIGNED BY: MHEL


DRAWN BY: JCOR

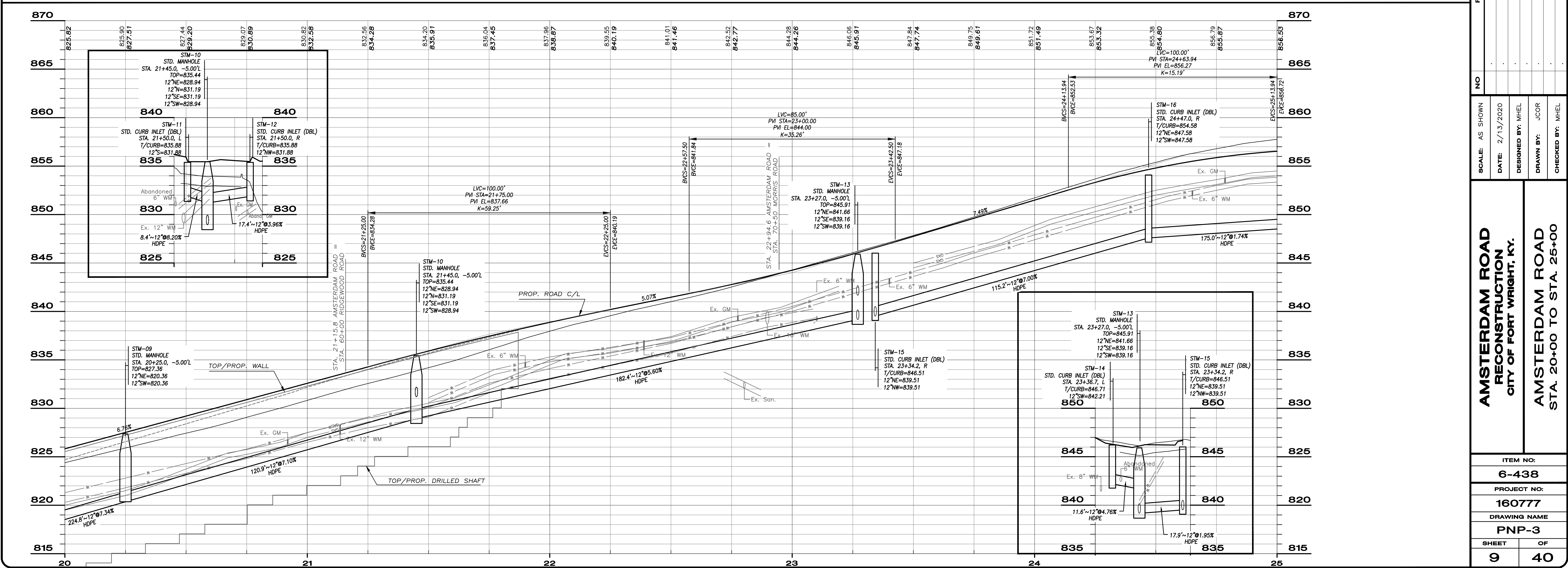
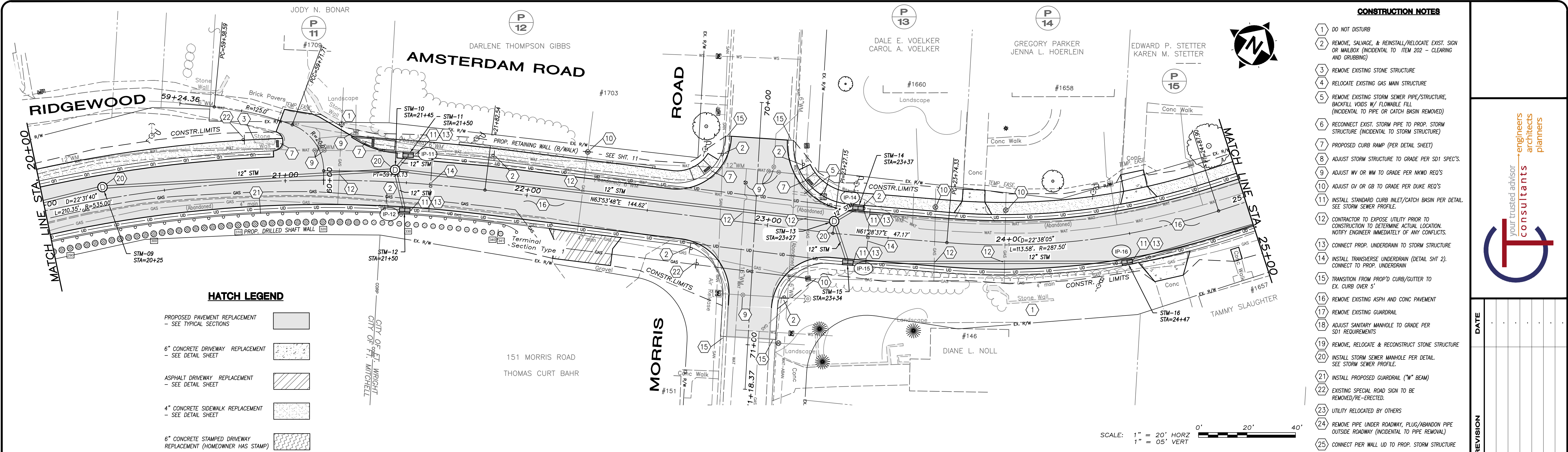
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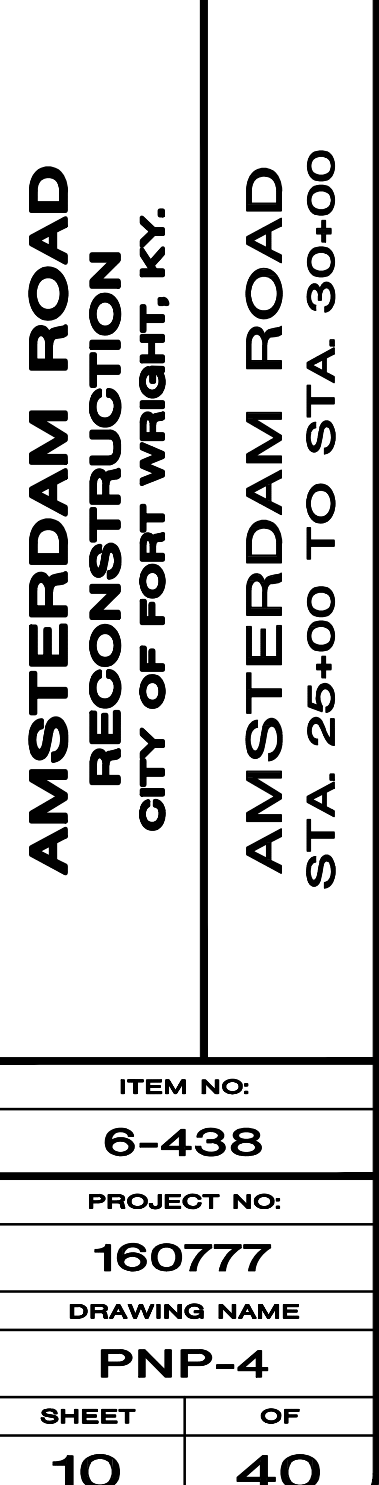
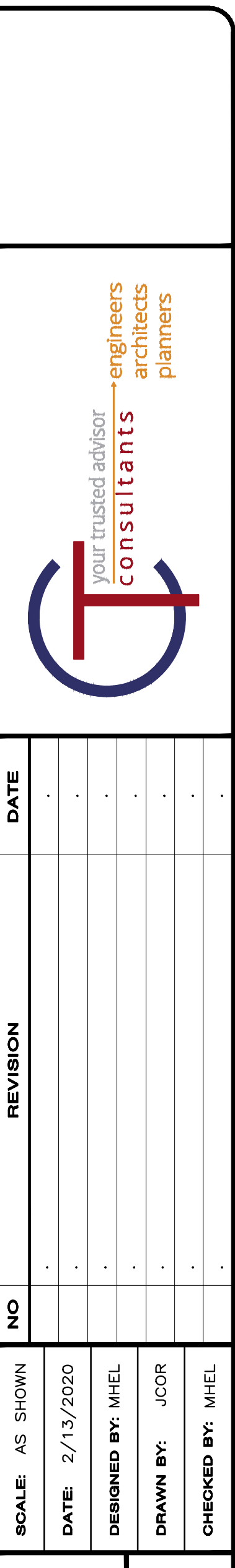
H:\2016\160777\DWG\SHEETS\160777 - PLAN PROFILE.DWG - 160777 - PLAN PROFILE - RW_01 - 12/19/2019 7:59:47 AM - JAMES CORNELL





AMSTERDAM ROAD RECONSTRUCTION CITY OF FORT WRIGHT, KY.		SCALE: AS SHOWN	NO	REVISION	DATE	 <p>your trusted advisor consultants → engineers architects planners</p>	
		DATE: 2/13/2020			.		
		DESIGNED BY: MHEL			.		
		DRAWN BY: JCOR			.		
		CHECKED BY: MHEL			.		
					.		
AMSTERDAM ROAD STA. 15+00 TO STA. 20+00							
ITEM NO:							
6-438							
PROJECT NO:							
160777							
DRAWING NAME							
PNP-2							
SHEET				OF			
8				40			





CRAIG BAKER
YOLANDA BAKER

P
22

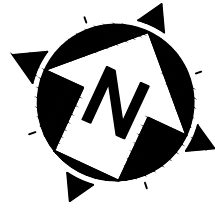
1:44

MATCH LINE STA 30+00

FT. HENRY

AMSTERDAM ROAD

REDWOOD DR.



SCALE: 1" = 20' HORIZ
1" = 05' VERT

HATCH LEGEND

- PROPOSED PAVEMENT REPLACEMENT
- SEE TYPICAL SECTIONS
- 6" CONCRETE DRIVEWAY REPLACEMENT
- SEE DETAIL SHEET
- ASPHALT DRIVEWAY REPLACEMENT
- SEE DETAIL SHEET
- 4" CONCRETE SIDEWALK REPLACEMENT
- SEE DETAIL SHEET
- 6" CONCRETE STAMPED DRIVEWAY
REPLACEMENT (HOMECOWNER HAS STAMP)

CONSTRUCTION NOTES

- DO NOT DISTURB
- REMOVE, SALVAGE, & REINSTALL/RELOCATE EXIST. SIGN OR MAILBOX (INCIDENTAL TO ITEM 202 - CLEARING AND GRUBBING)
- REMOVE EXISTING STONE STRUCTURE
- RELOCATE EXISTING GAS MAIN STRUCTURE
- REMOVE EXISTING STORM SEWER PIPE/STRUCTURE, BACKFILL Voids W/ FLOWABLE FILL (INCIDENTAL TO PIPE OR CATCH BASIN REMOVED)
- RECONNECT EXIST. STORM PIPE TO PROP. STORM STRUCTURE (INCIDENTAL TO STORM STRUCTURE)
- PROPOSED CURB RAMP (PER DETAIL SHEET)
- ADJUST STORM STRUCTURE TO GRADE PER SD1 SPEC'S.
- ADJUST WY OR WM TO GRADE PER NKWD REQ'S
- ADJUST GV OR GB TO GRADE PER DUKE REQ'S
- INSTALL STANDARD CURB INLET/CATCH BASIN PER DETAIL. SEE STORM SEWER PROFILE.
- CONTRACTOR TO EXPOSE UTILITY PRIOR TO CONSTRUCTION TO DETERMINE ACTUAL LOCATION. NOTIFY ENGINEER IMMEDIATELY OF ANY CONFLICTS.
- CONNECT PROP. UNDERDRAIN TO STORM STRUCTURE
- INSTALL TRANSVERSE UNDERDRAIN (DETAIL SHT 2). CONNECT TO PROP. UNDERDRAIN
- TRANSITION FROM PROP'D CURB/GUTTER TO EX. CURB OVER 5'
- REMOVE EXISTING ASPH AND CONC PAVEMENT
- REMOVE EXISTING GUARDRAIL
- ADJUST SANITARY MANHOLE TO GRADE PER SD1 REQUIREMENTS
- REMOVE, RELOCATE & RECONSTRUCT STONE STRUCTURE
- INSTALL STORM SEWER MANHOLE PER DETAIL. SEE STORM SEWER PROFILE.
- INSTALL PROPOSED GUARDRAIL ("W" BEAM)
- EXISTING SPECIAL ROAD SIGN TO BE REMOVED/RE-ERECTED.
- UTILITY RELOCATED BY OTHERS
- REMOVE PIPE UNDER ROADWAY, PLUS/ABANDON PIPE OUTSIDE ROADWAY (INCIDENTAL TO PIPE REMOVAL)
- CONNECT PIER WALL UD TO PROP. STORM STRUCTURE

DATE

REVISION

NO

SCALE: AS SHOWN

DATE: 2/13/2020

DESIGNED BY: MHEL

DRAWN BY: JCOR

CHECKED BY: MHEL

AMSTERDAM ROAD
RECONSTRUCTION
CITY OF FORT WRIGHT, KY.

AMSTERDAM ROAD
STA. 30+00 TO STA. 32+43

ITEM NO:

6-438

PROJECT NO:

160777

DRAWING NAME

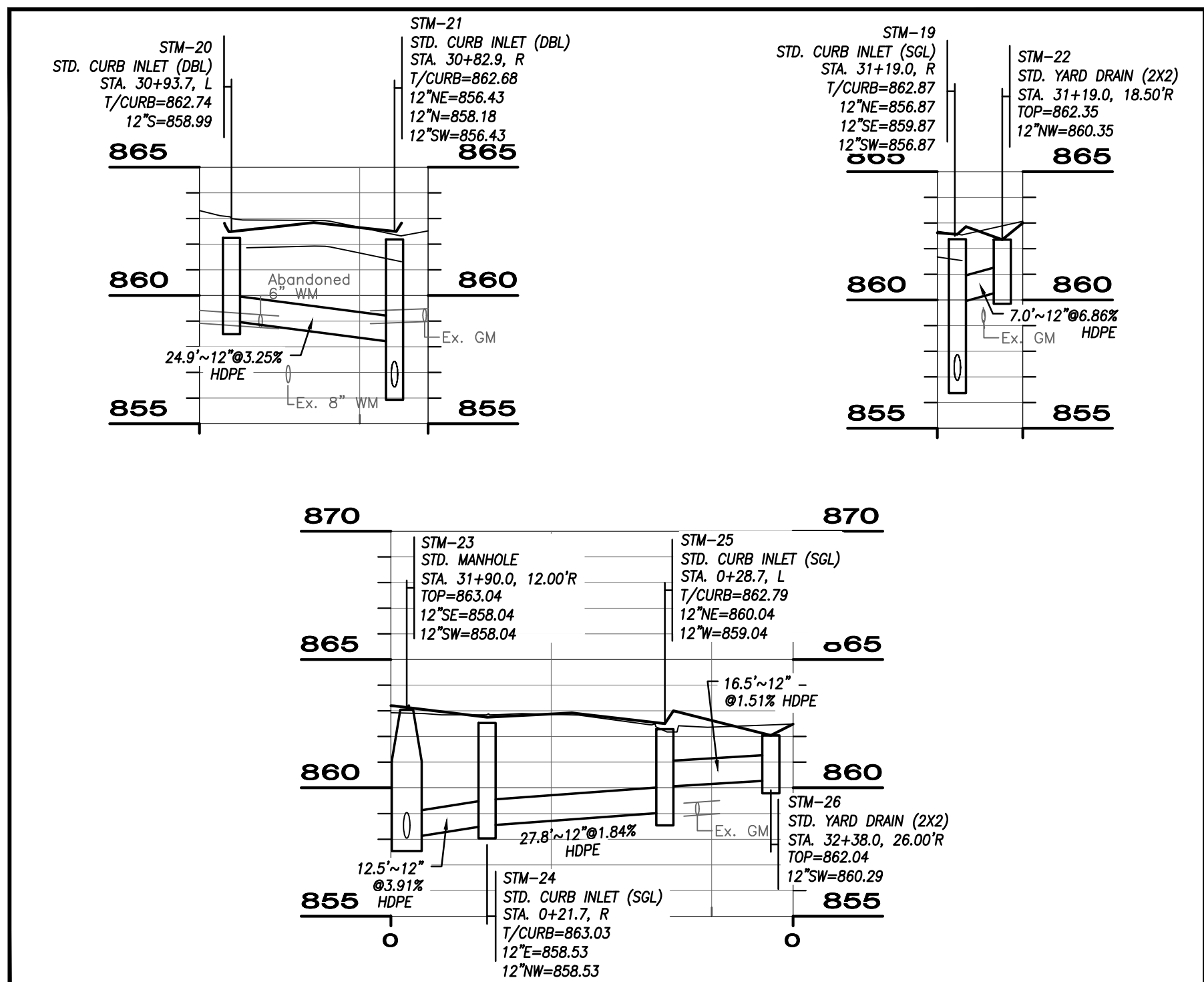
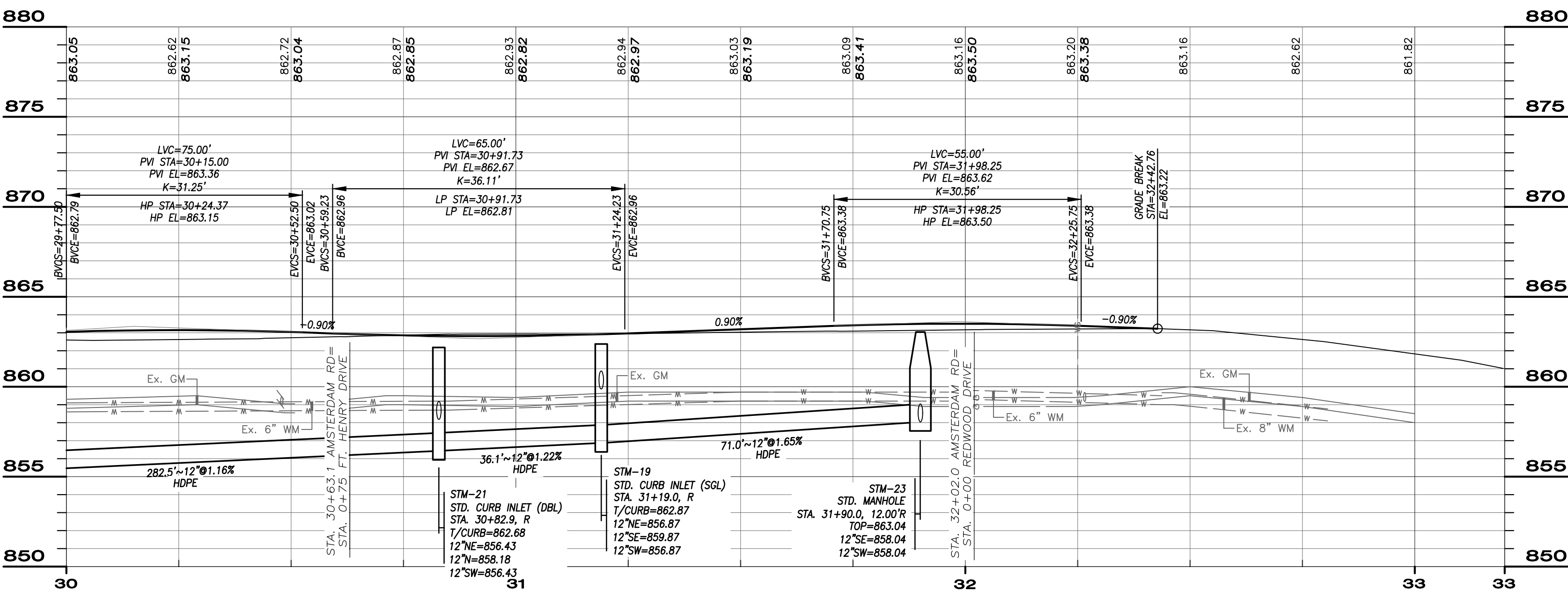
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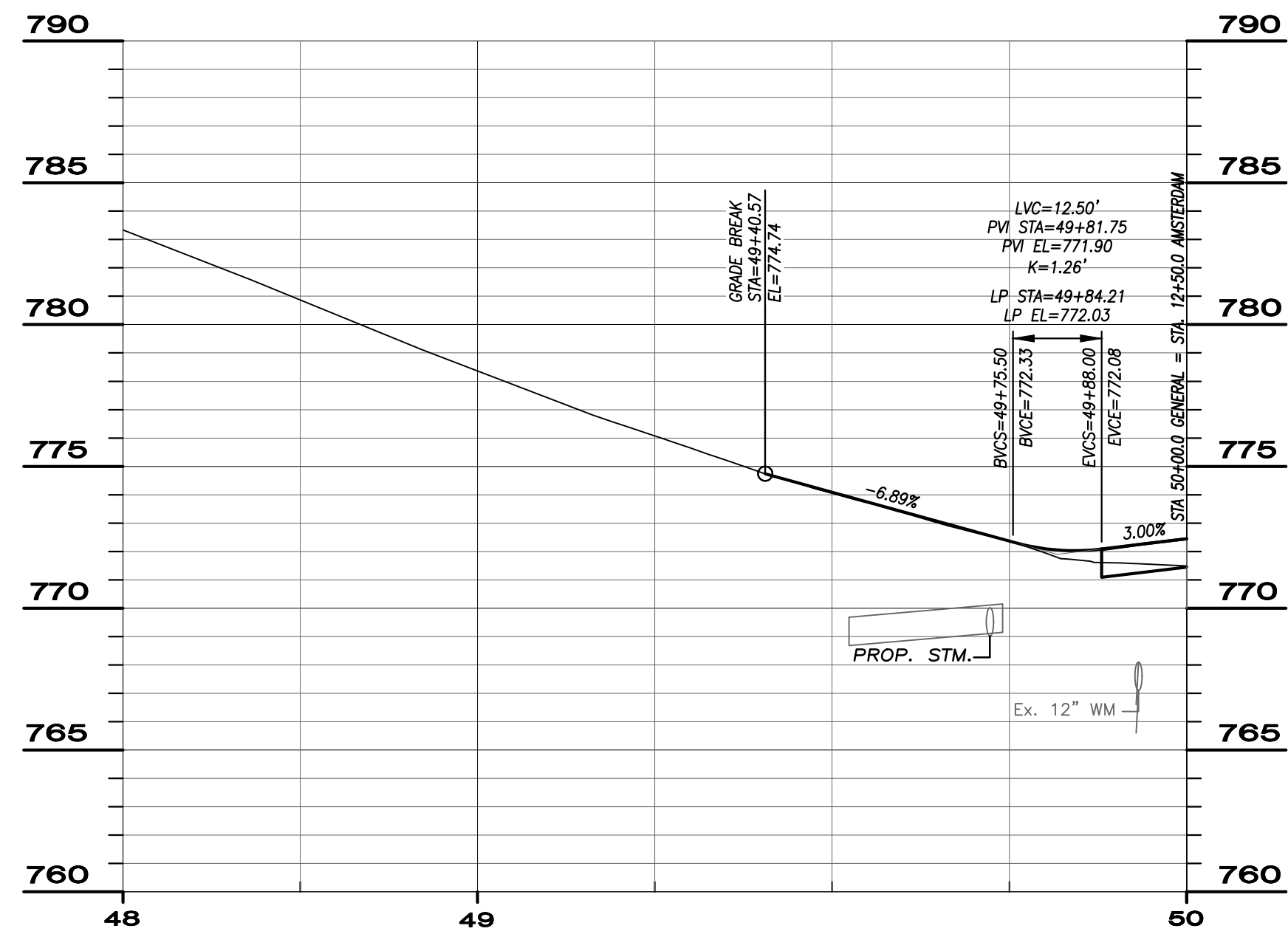
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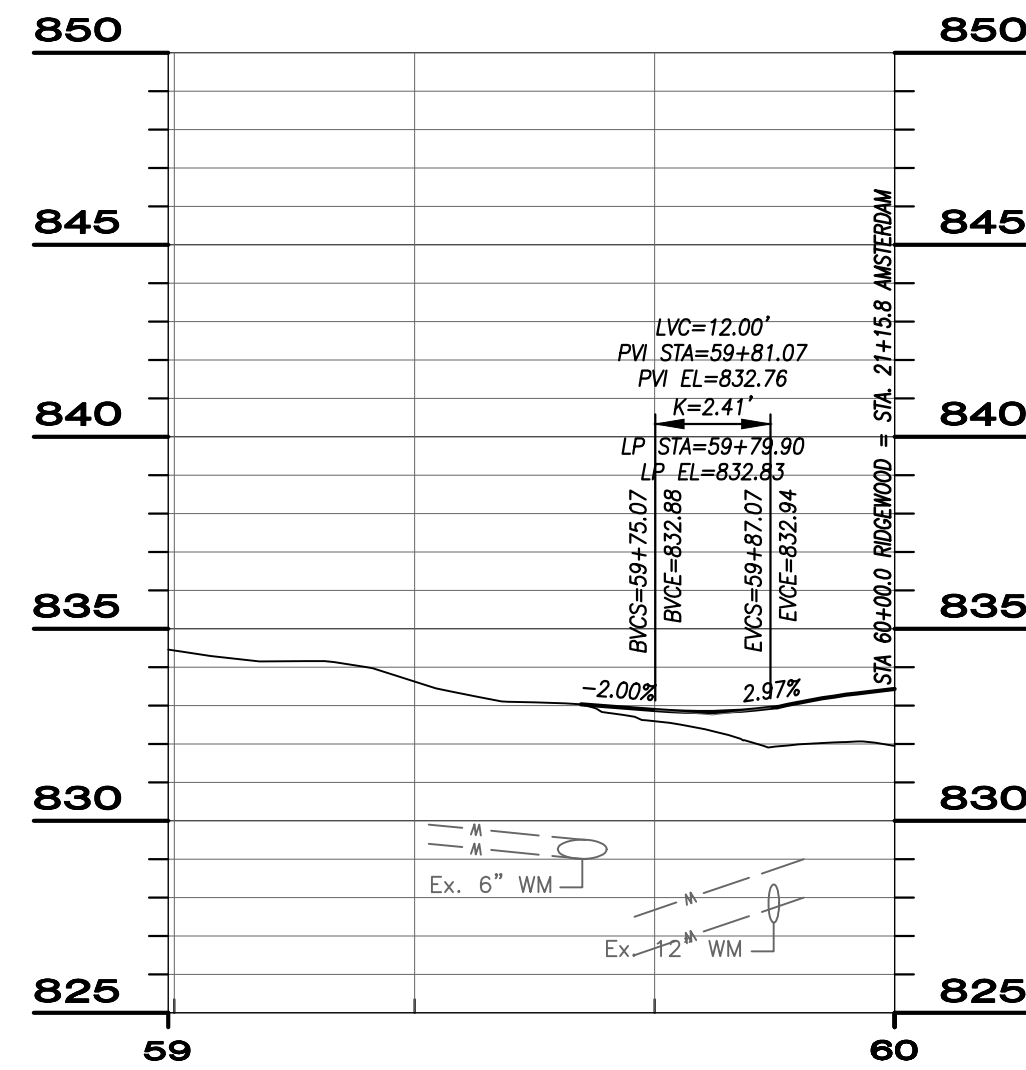
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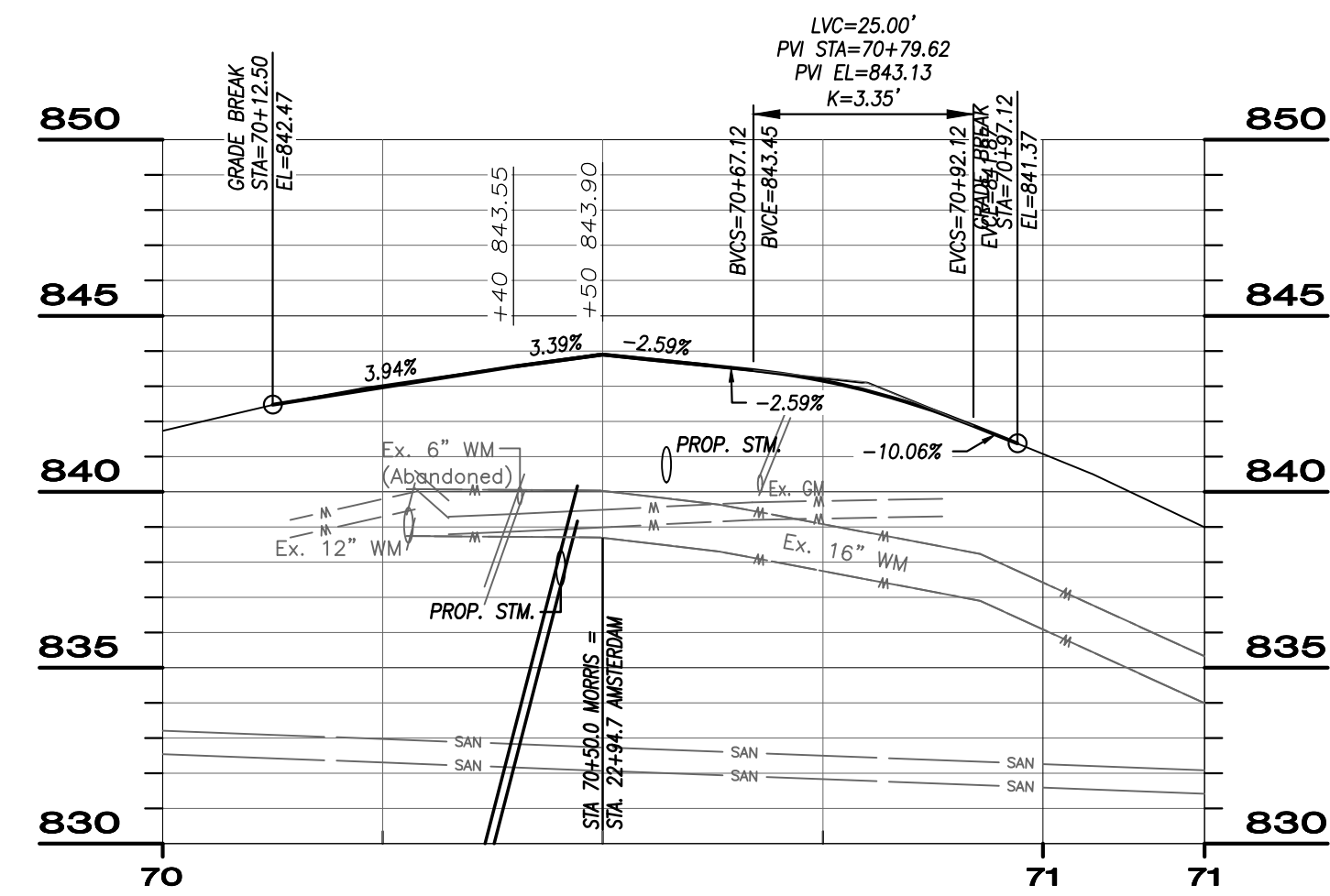




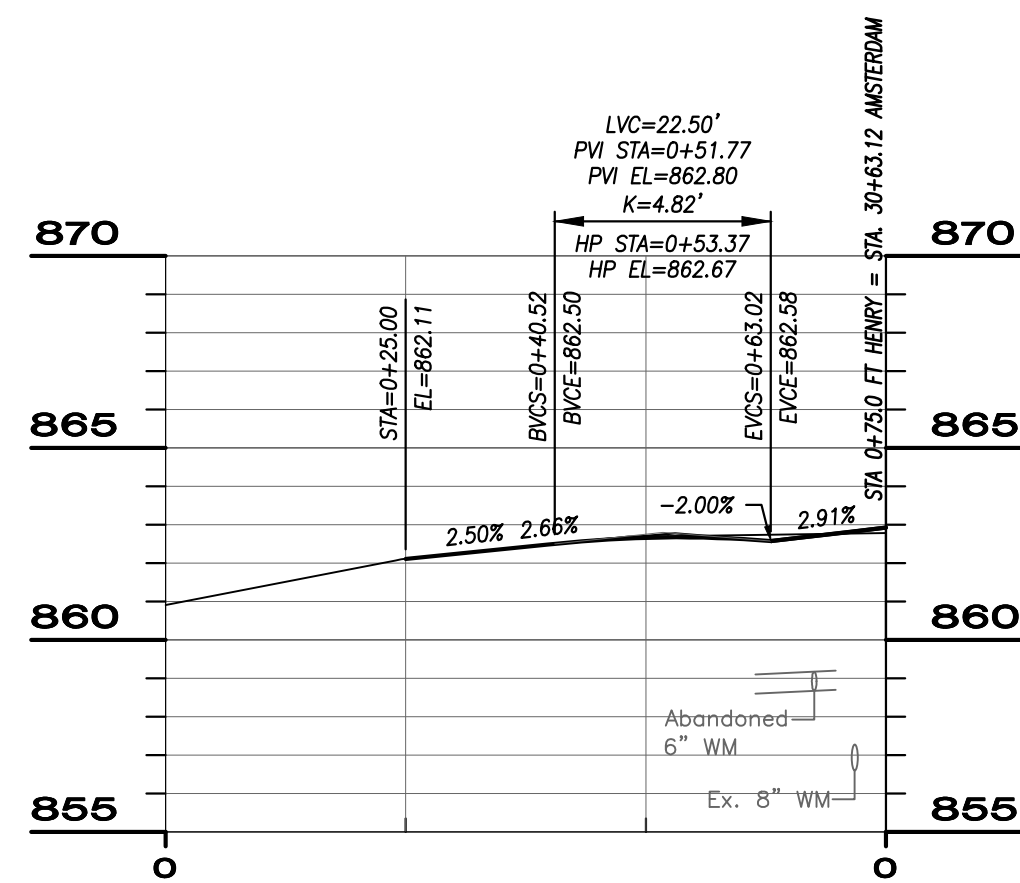
GENERAL DRIVE



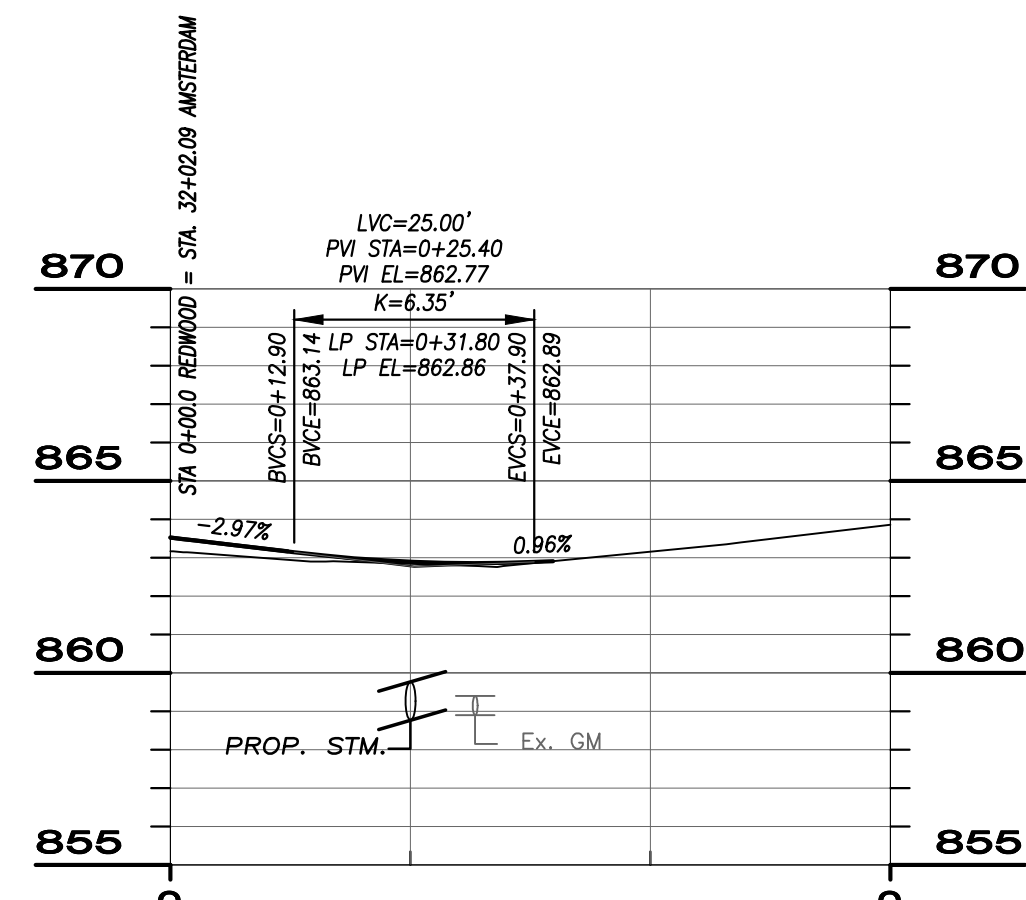
RIDGEWOOD DRIVE



MORRIS ROAD



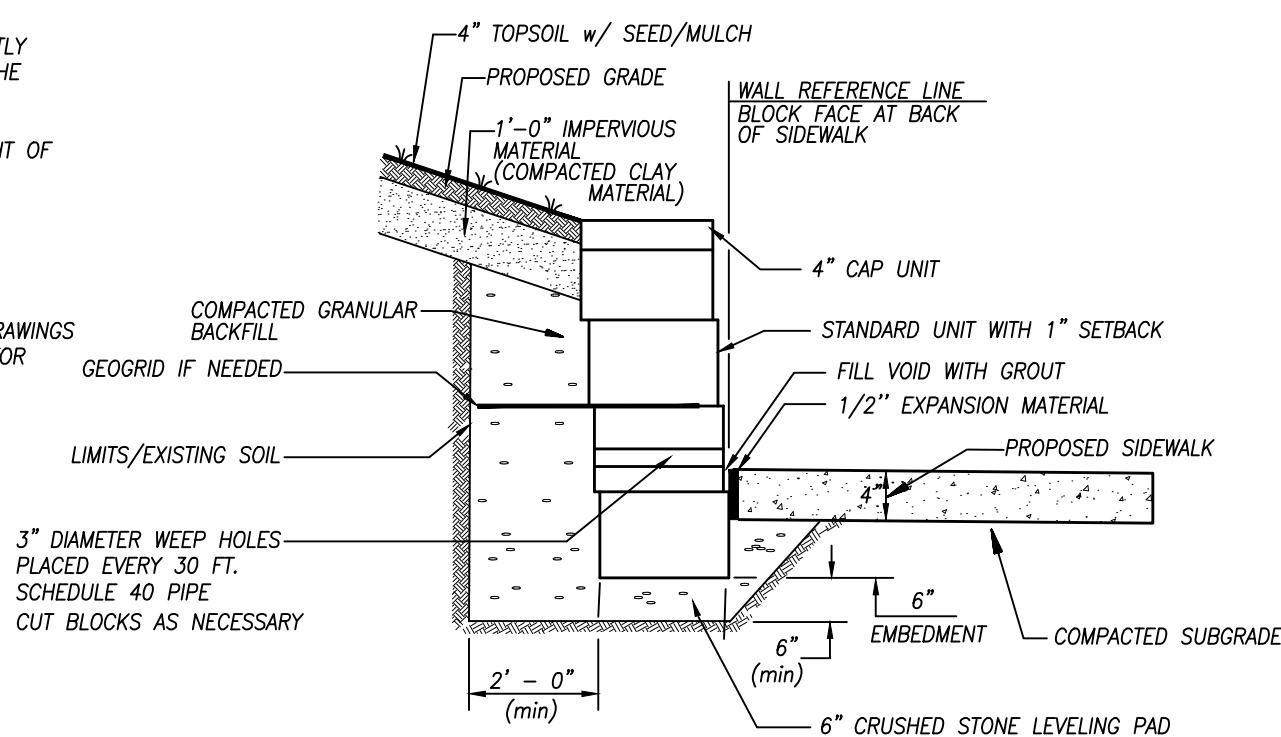
FORT HENRY DRIVE



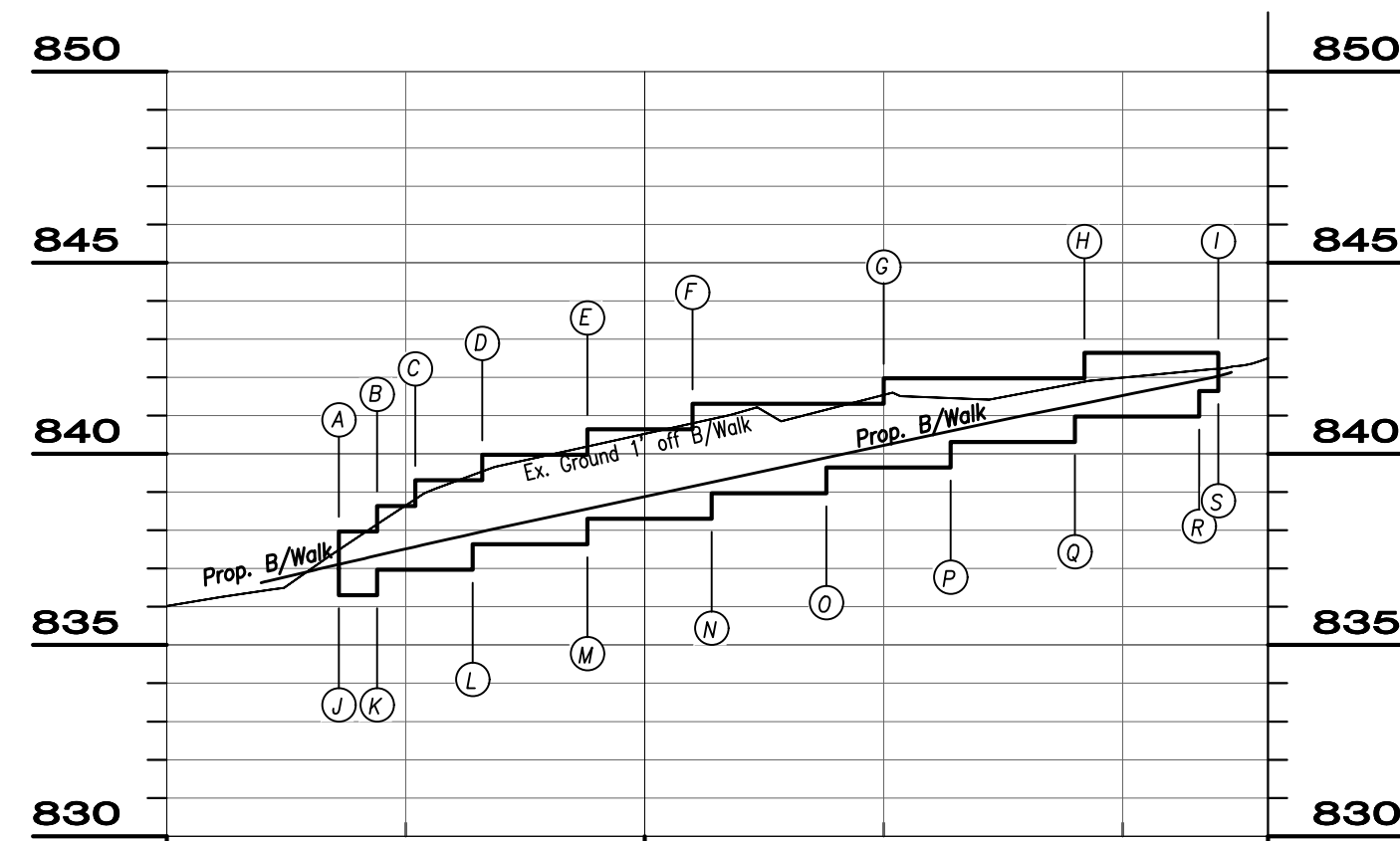
REDWOOD DRIVE

NOTES:

- CONSTRUCTION OF THE WALL SYSTEM SHALL STRICTLY FOLLOW THE GUIDELINES AND REQUIREMENTS OF THE MANUFACTURE.
- SEE PLAN AND CROSS SECTIONS FOR LIMITS/HEIGHT OF WALL.
- THE BID QUANTITY IS MEASURED ON THE EXPOSED SQUARE FOOTAGE OF THE VERTICAL FACE.
- THE WALL MUST BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF KENTUCKY. SHOP DRAWINGS OF THE WALL MUST BE SUBMITTED TO ENGINEER FOR REVIEW.



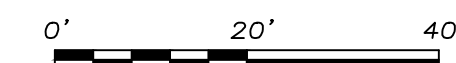
MODULAR BLOCK WALL DETAIL
NT&



RETAINING WALL @ B/WALK
(STA. 21+68 TO 22+60 - 17.5' LT)

	A	B	C	D	E	F	G	H	I
STATION	21+68	21+72	21+76	21+83	21+94	22+05	22+25	22+46	22+60
TOP/WALL	837.97	838.64	839.31	839.97	840.64	841.31	841.97	842.64	842.64
BACK/WALK	837.11	837.35	837.57	837.97	838.56	839.15	840.23	841.32	842.04

	J	K	L	M	N	O	P	Q	R	S
STATION	21+68	21+72	21+82	21+94	22+07	22+19	22+32	22+45	22+58	22+60
BOT/WALL	836.31	836.31	836.97	837.64	838.31	838.97	839.64	840.31	840.97	841.64

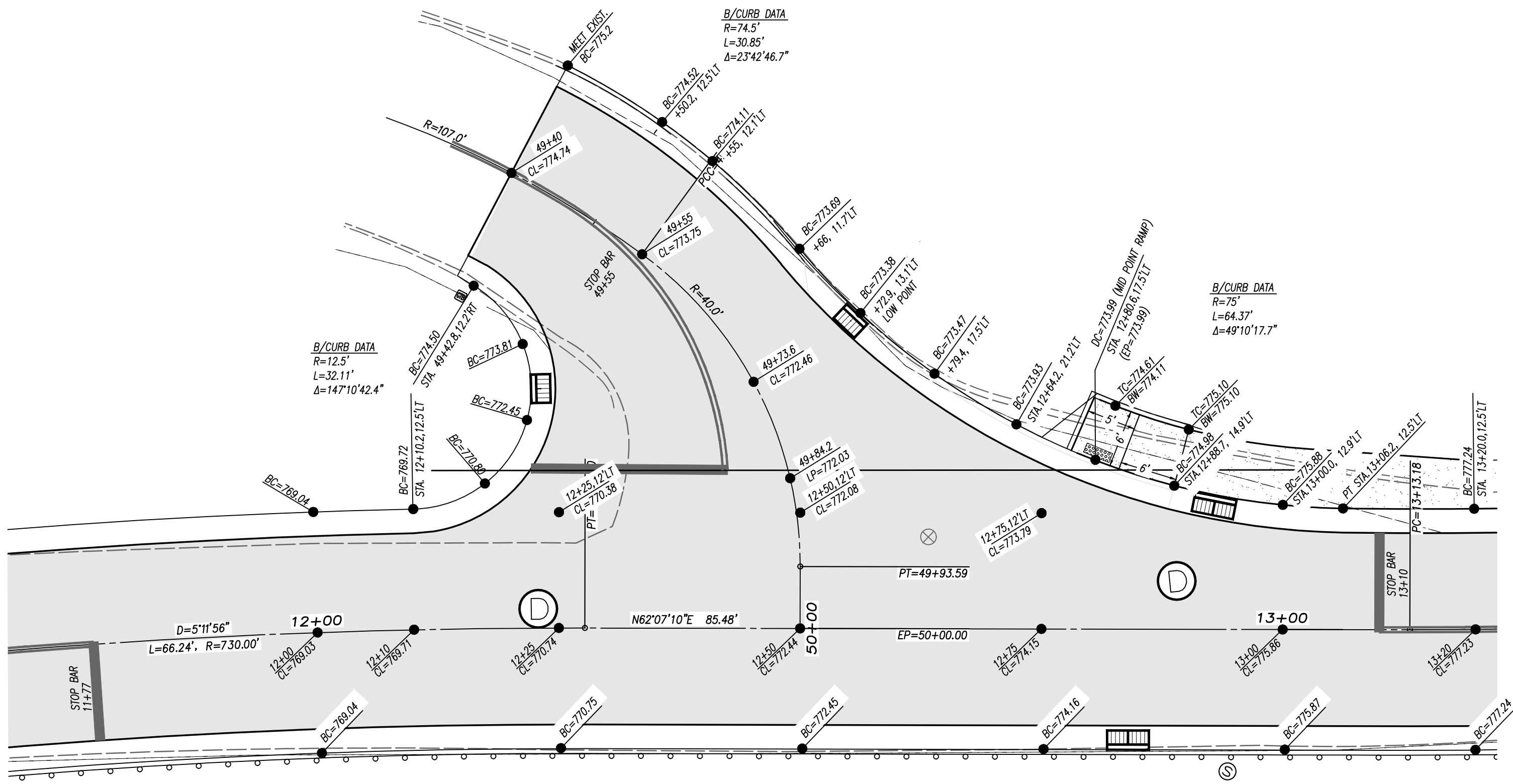


SCALE: 1" = 20' HORZ
1" = 05' VERT

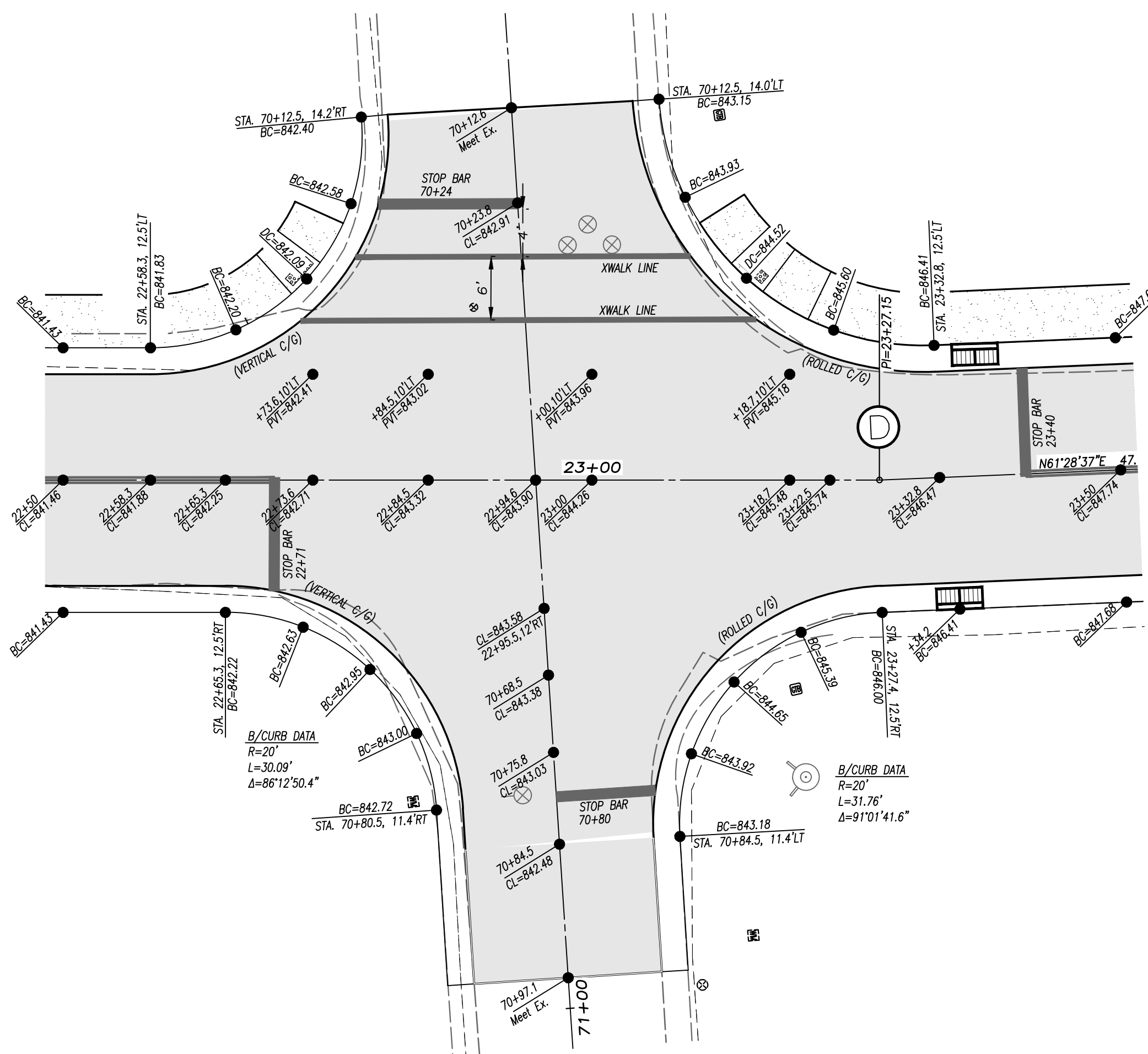
SCALE:	AS SHOWN
DATE:	2/13/2020
DESIGNED BY:	MHEL
DRAWN BY:	JCOR
CHECKED BY:	MHEL

NO	REVISION	DATE

ITEM NO: 6-438	
PROJECT NO: 160777	
DRAWING NAME PRF	
SHEET 12	OF 40

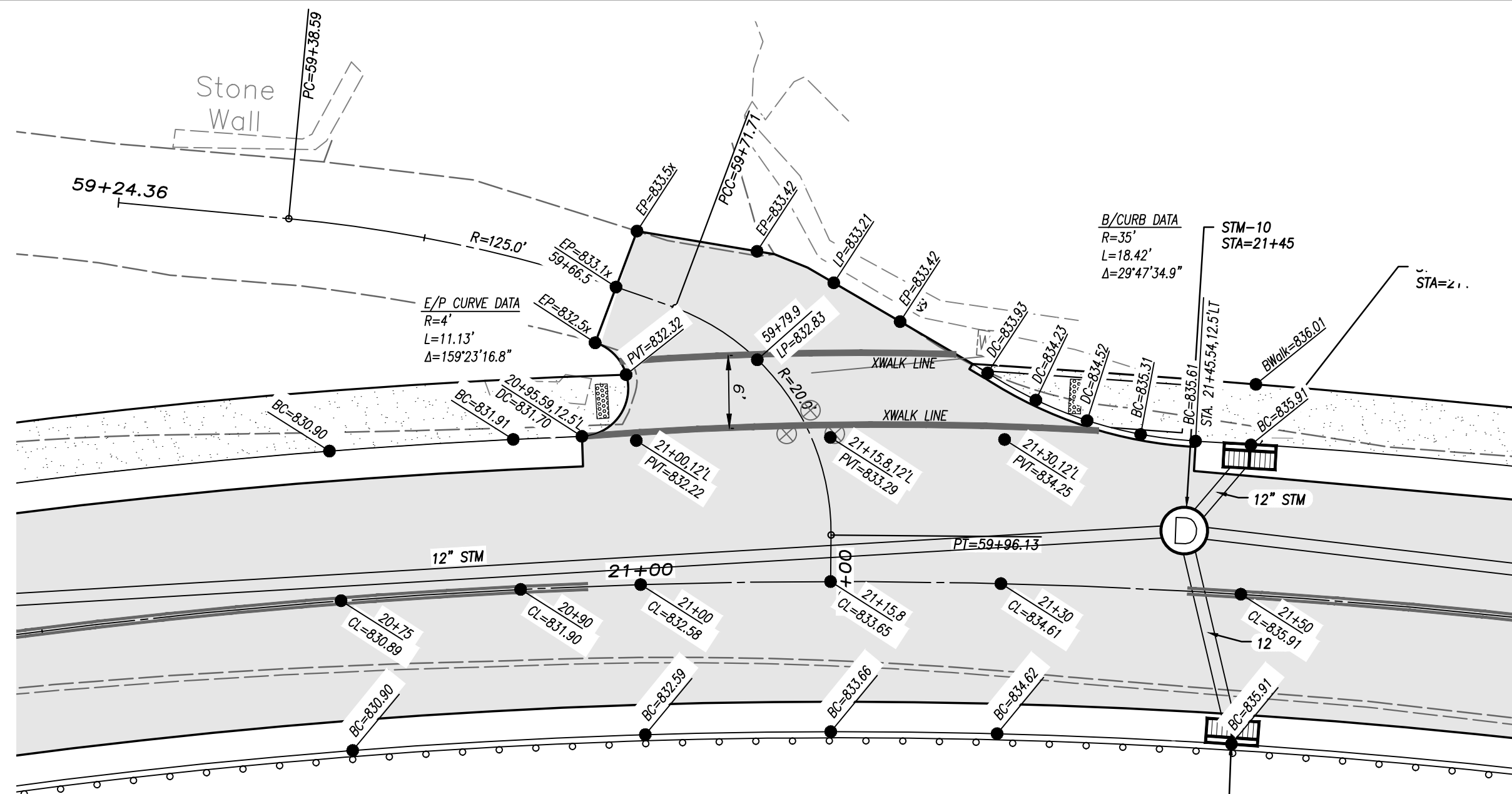


© GENERAL DRIVE

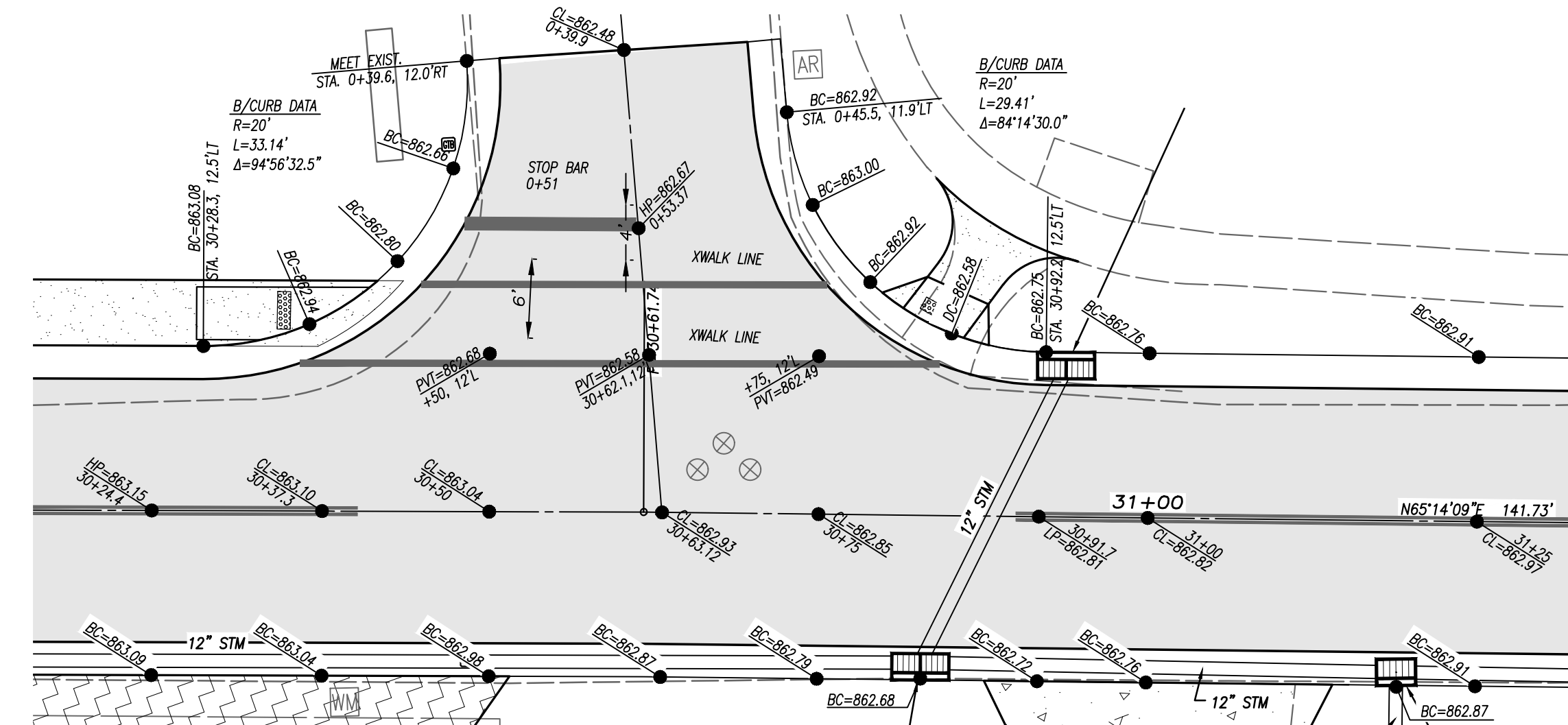


© MORRIS ROAD

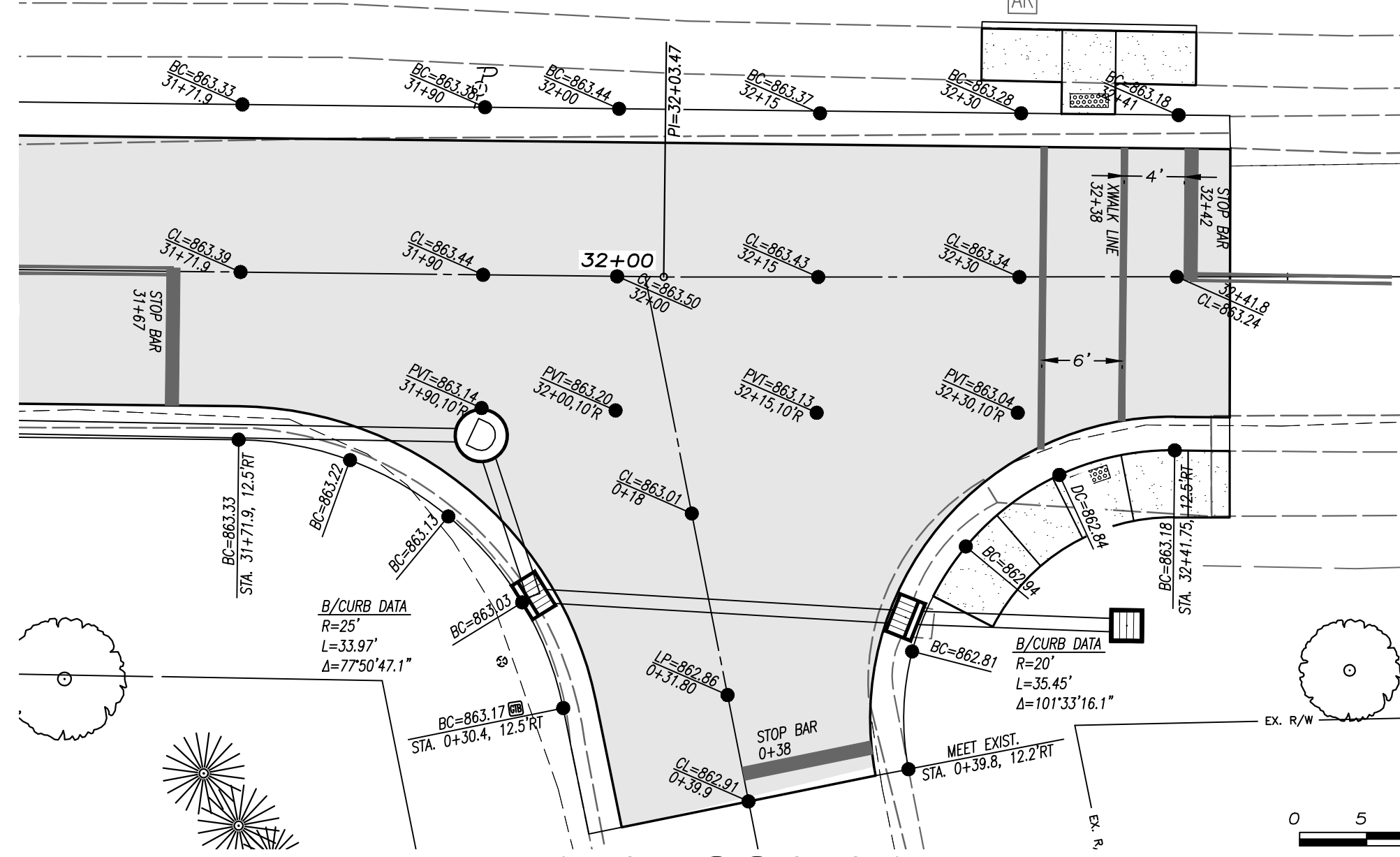
LEGEND
 BC = BACK OF FULL HT CURB
 DC = BACK OF DROP CURB (@ CURB RAMP)
 CL = CENTERLINE ELEV
 HP = HIGH POINT
 LP = LOW POINT
 PVT = PAVEMENT SPOT ELEV



© RIDGEWOOD ROAD



© FORT HENRY ROAD



© REDWOOD DRIVE

0 5 10 20
 SCALE: 1" = 10' HORZ



DATE	
REVISION	
NO	
SCALE: AS SHOWN	
DATE: 2/13/2020	
DESIGNED BY: MHEL	
DRAWN BY: JCOR	
CHECKED BY: MHEL	

**AMSTERDAM ROAD
 RECONSTRUCTION
 CITY OF FORT WRIGHT, KY.**

INTERSECTION DETAILS

ITEM NO:	6-438
PROJECT NO:	160777
DRAWING NAME	INT
SHEET	13
OF	40

GRATING — THE DESIGN SHALL BE ESSENTIALLY THE SAME AND EQUALLY AS STRONG AS THE ONE SHOWN HEREON. MINIMUM WEIGHT 120 POUNDS.

CONCRETE — CAST-IN-PLACE, TO BE CLASS C. ALL PRECAST CONCRETE SHALL MEET THE REQUIREMENTS OF 706.13 WITH 6 ±2% AIR VOID CONTENT IN THE HARDENED CONCRETE AND BE MARKED WITH THE CATCH BASIN NUMBER.

REINFORCING — No. 4 BARS 6" CENTER TO CENTER. FOR STANDARD No. 2-3 USE 8 BARS.

OPENINGS — FOR PIPES SHALL BE O.D. +2" WHEN PREFABRICATED OR FIELD CUT.

LOCATION — AND ELEVATION WHEN GIVEN ON THE PLANS IS TOP CENTER OF THE GRATE.

SIDE INLETS — SHALL BE PROVIDED ONLY WHEN SPECIFIED ON THE PLANS.

STEPS — SHALL BE PROVIDED WHERE THE DEPTH EXCEEDS 72" AND SHALL MEET THE REQUIREMENTS OF ODOT MH-3.

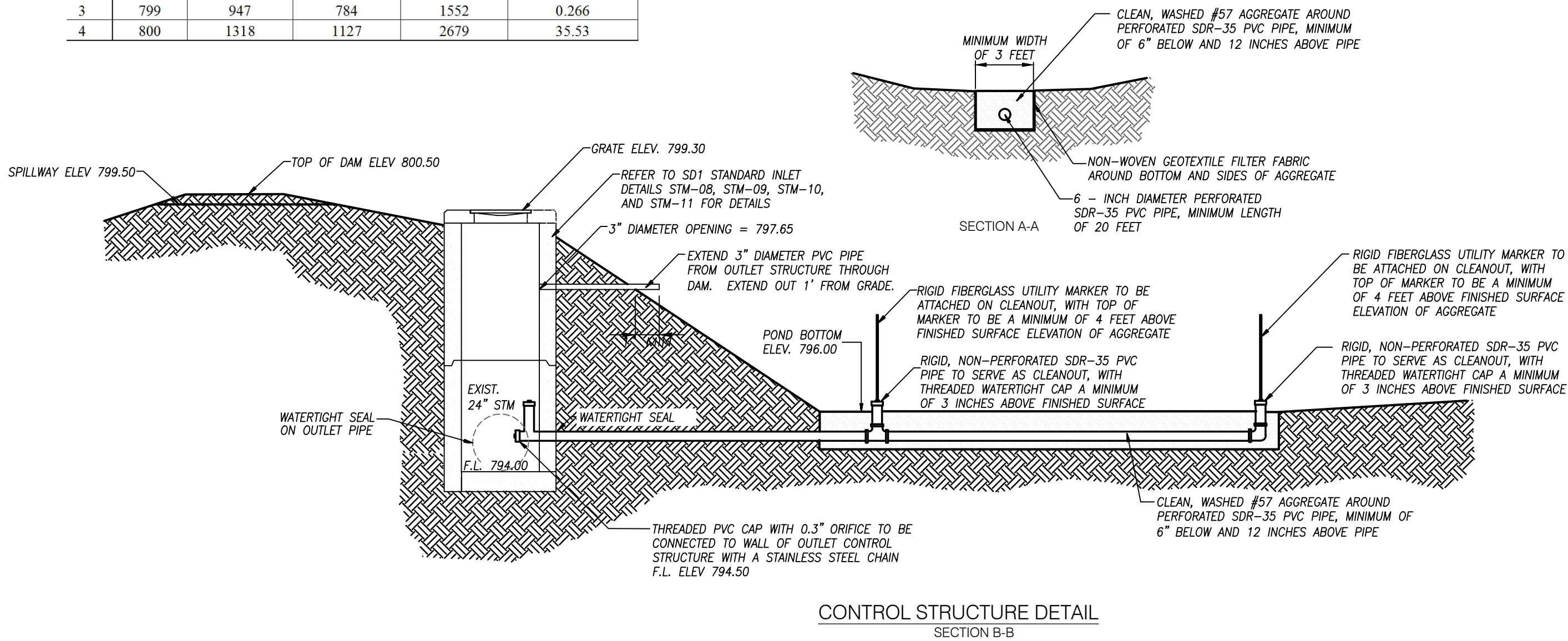
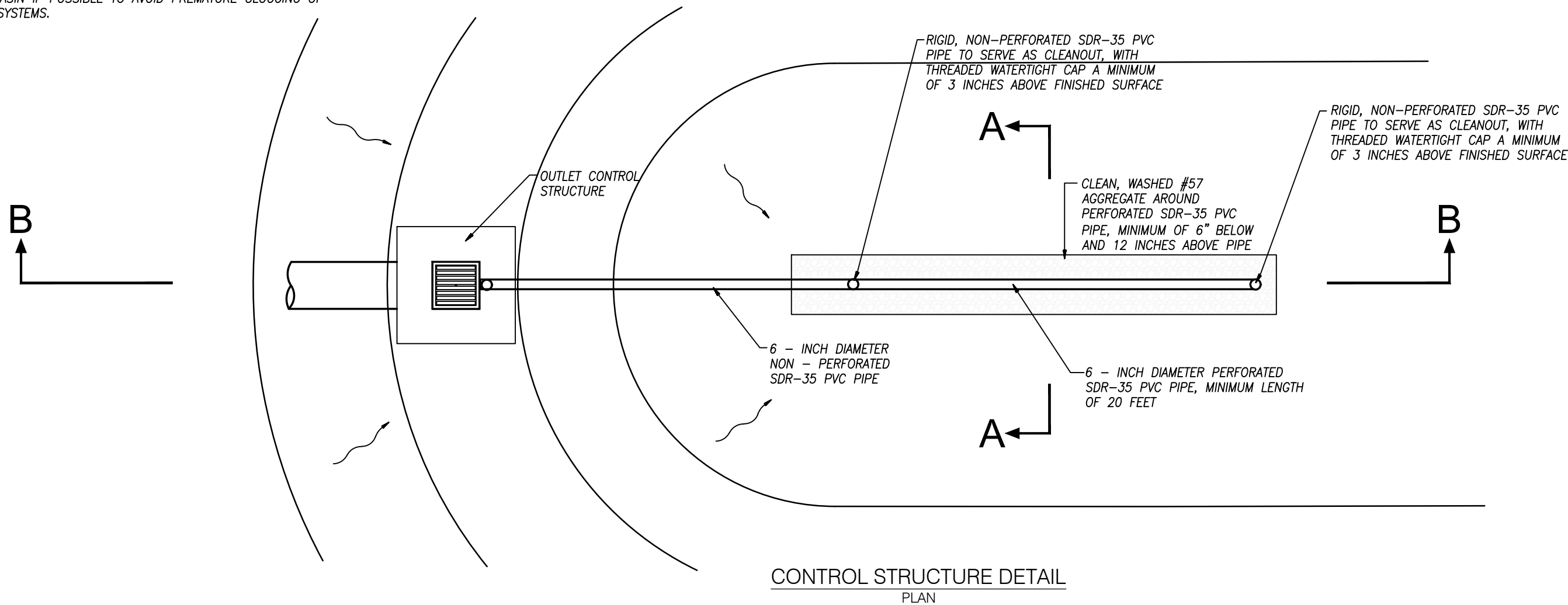
INLETS OVER 12' IN DEPTH — SHALL BE PRECAST OR CAST-IN-PLACE CONCRETE; REINFORCED WITH No. 4 BARS ON 12" CENTERS BOTH VERTICALLY AND HORIZONTALLY WITH 2" CLEARANCE FROM INSIDE WALL FACE.

BOTTOM SLAB MAY BE PRECAST SEPARATELY AND THE OUTLET PIPE PLACED ON TOP OF IT WITH THE BOTTOM SHAPED TO DRAIN

NOTES:
APPLICABILITY: THIS DETAIL SHALL BE APPLICABLE FOR ALL DETENTION BASINS THAT INCLUDE ORIFICES LESS THAN OR EQUAL TO 6" IN DIAMETER. FOR DRAINAGE AREAS THAT EXCEED 100 ACRES, OR FOR ORIFICES GREATER THAN 6 INCHES IN DIAMETER, CONSULT WITH SANITATION DISTRICT NO. 1 PLAN REVIEW STAFF.

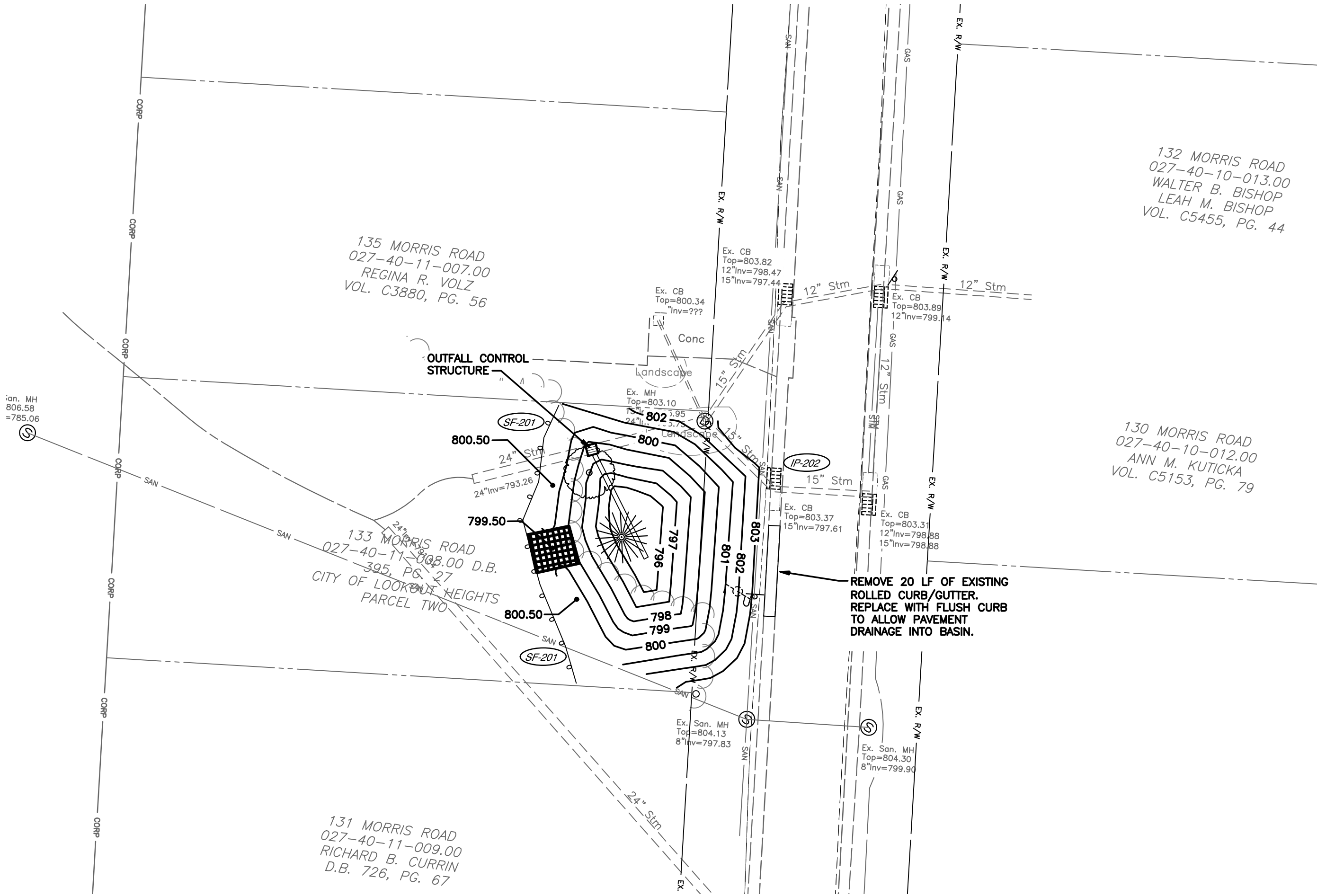
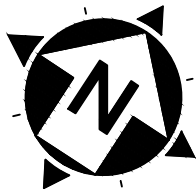
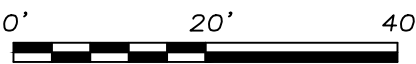
UNDERDRAIN: PERFORATED UNDERDRAIN SHALL BE SDR-35 PVC PIPE WITH A MINIMUM OF THREE ROWS OF PRE-DRILLED PERFORATIONS. THE TOTAL OPENING OF ALL PERFORATIONS COMBINED SHALL BE SUFFICIENT TO ALLOW THE UNDERDRAIN PIPE TO DISCHARGE AT FULL CAPACITY, AS WOULD OCCUR IF THERE WAS NO ORIFICE RESTRICTION. THE SIZE OF THE PERFORATIONS SHALL BE SMALL ENOUGH TO PREVENT SURROUNDING AGGREGATE MATERIAL FROM TRAVELING THROUGH THE PERFORATIONS.

VEGETATION: INSTALLATION OF TREES OR OTHER LEAFY VEGETATION SHALL BE AVOIDED AROUND THE PERIMETER OF THE EXTENDED DETENTION BASIN IF POSSIBLE TO AVOID PREMATURE CLOGGING OF AGGREGATE SYSTEMS.



CONTROL STRUCTURE DETAIL
SECTION B-B

SCALE: 1" = 20' HORZ



TURF REINFORCING MAT — TRM C350 BY NORTH AMERICAN GREEN, OR APPROVED EQUAL

Table 4: Detention Basin Stage-Storage Table

Stage	Elevation	Contour Area (SF)	Incremental Storage (CF)	Total Storage (CF)	Total Discharge (CFS)
0	796	179	0	0	0
1	797	375	271	271	0.002
2	798	631	497	768	0.115
3	799	947	784	1552	0.266
4	800	1318	1127	2679	35.53

AMSTERDAM ROAD
RECONSTRUCTION
CITY OF FORT WRIGHT, KY.

DETENTION BASIN
#133 MORRIS ROAD

ITEM NO:

6-438

PROJECT NO:

160777

DRAWING NAME

DTN

SHEET

14

OF

40

DATE

REVISION

NO

SCALE: AS SHOWN

DATE: 2/13/2020

DESIGNED BY: MHEL

DRAWN BY: JCOR

CHECKED BY: MHEL

your trusted advisor
engineers
architects
planners

