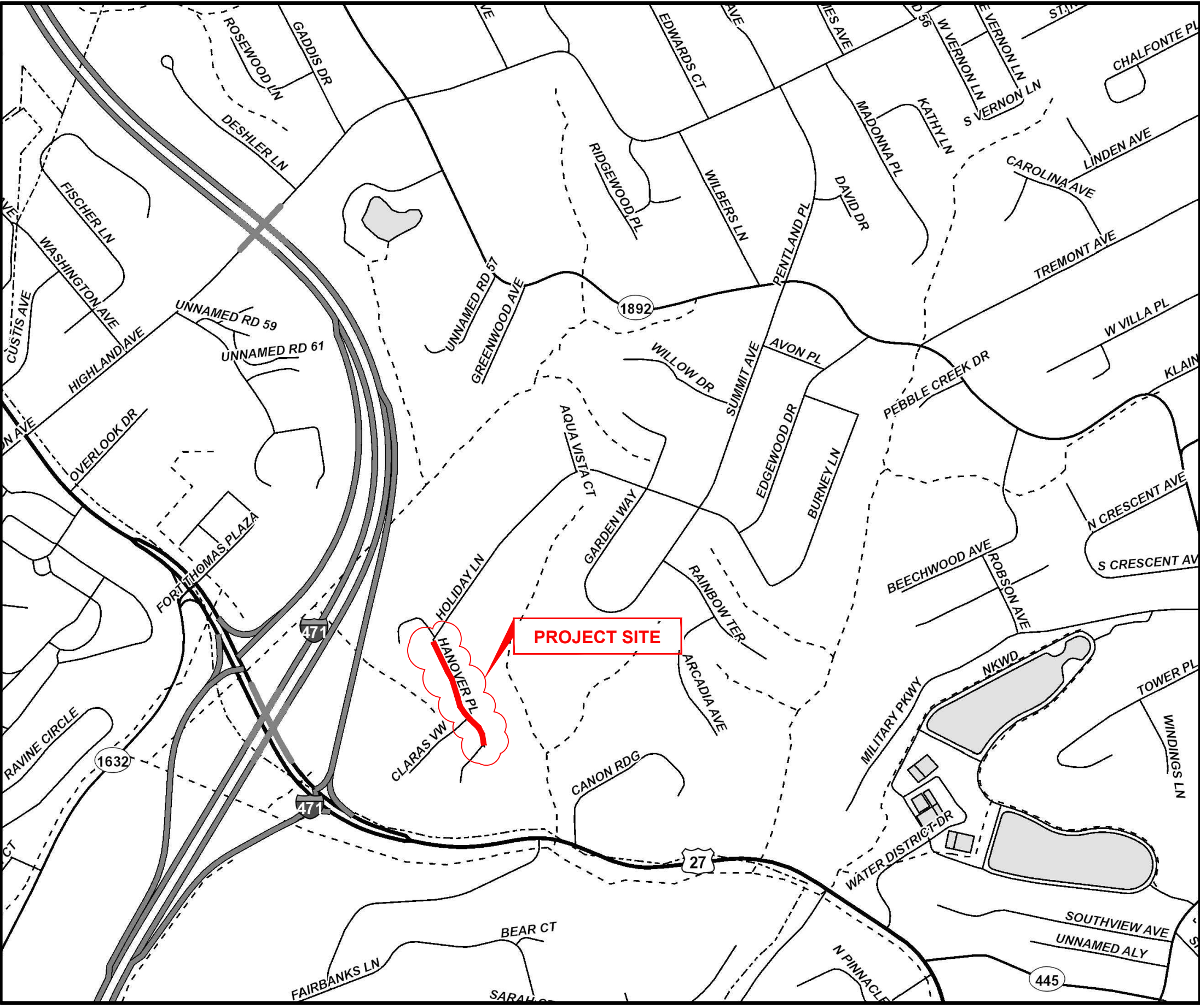


# CITY OF FORT THOMAS CAMPBELL COUNTY, KENTUCKY HANOVER PLACE RECONSTRUCTION

241381

CITY OF INDEPENDENCE OFFICIALS	
<b>MAYOR</b>	ERIC HAAS
<b>CITY CLERK</b>	MELISSA BECKETT
<b>CITY ADMINISTRATOR</b>	MATTHEW KREMER
<b>CITY COUNCIL MEMBERS</b>	
	JEFF BEZOLD
	ADAM BLAU
	ANDY ELLISON
	LAUREN MCINTOSH
	BEN PENDERY
	ERIC STRANGE
<b>GENERAL SERVICES DIRECTOR</b>	KEVIN BARBIAN
<b>PUBLIC WORKS DIRECTOR</b>	TIM MATTINGLY

INDEX OF SHEETS		
NO.	DWG NAME	SHEET NAME
1	TTL	TITLE SHEET
2	NOTES	NOTES & LEGEND
3	DTL-01	DETAIL SHEET 1
4	DTL-02	DETAIL SHEET 2
5	PLAN-01	PLAN SHEET 1



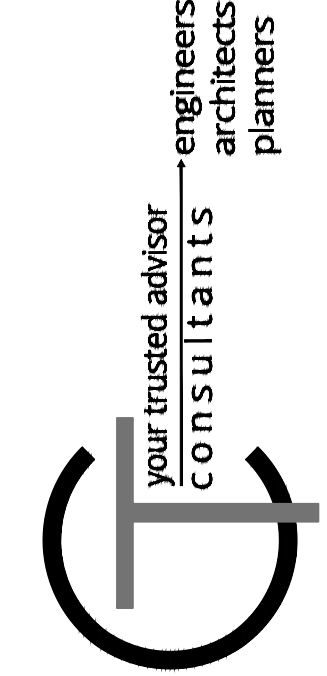
VICINITY MAP

**K.T.C SPECIFICATIONS**

THE LATEST STANDARD SPECIFICATIONS OF THE KENTUCKY TRANSPORTATION CABINET, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS THERETO.

**SOURCE OF BOUNDARY INFORMATION**

THE BOUNDARY INFORMATION SHOWN ON THESE PLANS IS BASED UPON CAMPBELL COUNTY G.I.S. MAPPING AND DOES NOT REPRESENT AN ACTUAL FIELD BOUNDARY SURVEY BY CT CONSULTANTS, INC.



ISSUED FOR:	BID NO:	REVISION	DATE
ISSUE DATE: 04/18/2024	04/18/2024		
SCALE: AS SHOWN			
DESIGNED BY: RSEI			
DRAWN BY: RSEI			
CHECKED BY: FTWE			

HANOVER PLACE  
RECONSTRUCTION  
CITY OF FORT THOMAS  
- CAMPBELL COUNTY, KY -

TITLE SHEET

PROJECT NO.	241381
DISCIPLINE	CIVIL
SHEET NAME	TTL
SHEET	OF
1	5

ROBERT K. SEITZINGER

P.E. #33805





GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE LATEST EDITION OF THE CITY OF FORT THOMAS SUBDIVISION REGULATIONS AND THE KENTUCKY DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. EXPANSION MATERIAL SHALL BE 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:
A. AT ALL FIXED OBJECTS (I.E. UTILITY COVERS, VALVES, MANHOLES, ETC.)
B. 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.
C. AT ALL STREET INTERSECTIONS AT THE POINT OF CURVATURE OF THE TURNING RADI ENTERING THE INTERSECTION.
D. 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.
3. ROADWAY REPLACEMENT PROJECT MAY NOT BEGIN BEFORE JULY 01, 2024 AND SHALL BE SUBSTANTIALLY COMPLETE NO LATER THAN OCTOBER 31, 2024.
4. DOWNSPOUT AND UNDERDRAIN CONSTRUCTION SHALL MEET THESE AND THE LATEST SPECIFICATION OF THE CITY OF FORT THOMAS 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.
5. 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.
6. ALL APPLICABLE RECOMMENDATIONS IN KENTUCKY'S BEST MANAGEMENT PRACTICES MANUAL SHALL BE FOLLOWED BY THE CONTRACTOR, INCLUDING SEEDING OF DISTURBED GROUND.
7. RIGHT-OF-WAY AND PROPERTY LINES SHOWN ARE PLOTTED FROM CAMPBELL COUNTY G.I.S. MAPPING AND ARE APPROXIMATE AND NOT THE RESULT OF A FIELD BOUNDARY SURVEY.
8. 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 THOMAS.
9. ALL OSHA, STATE AND LOCAL SAFETY REGULATIONS SHALL BE FOLLOWED DURING CONSTRUCTION.
10. 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.
11. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL CAMPBELL COUNTY AND THE CITY OF FORT THOMAS PERMITS HAVE BEEN ISSUED AS REQUIRE
12. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE CITY OF FORT THOMAS. LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE NOTED IN THESE PLANS.
13. ADDITIONAL BMP'S AND EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY. ALL COST FOR ABOVE SHALL BE INCLUDED IN LUMP SUM BID FOR EROSION CONTROL AND WATER POLLUTION CONTROL.
14. 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.

UTILITY NOTES

- 1. 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.
2. PRIOR TO ANY EXCAVATION OVER AN EXISTING UTILITY LINE OR SERVICE, CONTRACTOR SHALL HAND EXCAVATE TO EXPOSE THE UTILITY AND DETERMINE LOCATION AND DEPTH. NOTIFY ENGINEER IMMEDIATELY OF ANY CONDITIONS.
3. 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.
4. 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.

STORM & SANITARY NOTES

- 1. ALL STORM AND SANITARY ITEMS SHALL BE IN ACCORDANCE WITH THE LATEST SPECIFICATIONS AND DETAILS FROM SD1. CONCRETE AND METAL PIPE MATERIALS SHALL NOT BE USED UNLESS OTHERWISE SPECIFIED ON THESE PLANS.
2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN STORM AND SANITARY SEWER FLOW THROUGHOUT THE PROJECT, FOR THE DURATION OF CONSTRUCTION. ALL COST FOR THE ABOVE SHALL BE INCIDENTAL TO THE CONTRACT.
3. IF REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND SCHEDULING STORM AND SANITARY SEWER INSPECTIONS AS SET OUT IN THE PRECONSTRUCTION MEETING.
4. CONNECTIONS INTO EXISTING OR PROPOSED STORM OR SANITARY SEWER STRUCTURES OR PIPES SHALL BE COMPLETED BY A CERTIFIED TAPPER BY SD1.

WATER NOTES

- 1. ALL WORK RELATING TO WATER MAINS OR WATER SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NORTHERN KENTUCKY WATER DISTRICT (NKWD).
2. CONTRACTOR MAY NOT USE WATER FROM FIRE HYDRANTS WITHOUT PRIOR PERMISSION FROM NKWD

GAS NOTES

- 1. ALL WORK RELATING TO GAS MAINS OR GAS SERVICE LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY

ELECTRIC NOTES

- 1. ALL WORK RELATING TO ELECTRIC LINES SHALL BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE DUKE ENERGY

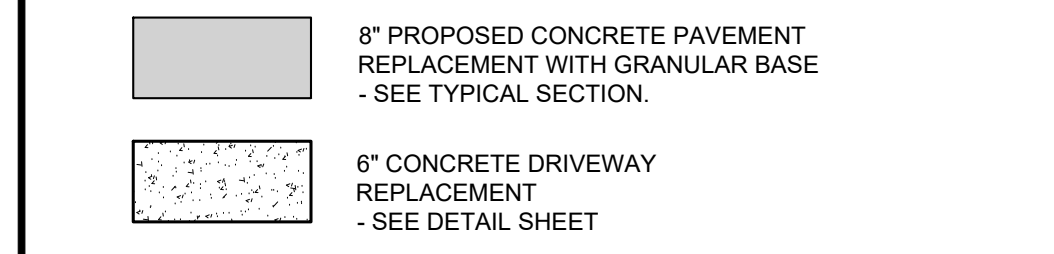
MAINTENANCE OF TRAFFIC NOTES

- 1. 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.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER AND THE OWNER A TRAFFIC CONTROL PLAN FOR THIS PROJECT.
3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY OF FORT THOMAS, AS WELL AS THEIR POLICE AND FIRE POLICE DEPARTMENTS. AT ALL TIMES, EMERGENCY VEHICLES SHALL BE GIVEN ACCESS.
4. RESIDENTS OF THE PROJECT AREA SHALL BE ALLOWED ACCESS TO THEIR PROPERTY AT ALL TIMES.
5. 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.

EROSION CONTROL LEGEND



HATCH LEGEND



SYMBOL LEGEND

Table listing symbols for existing and proposed utilities: Gas Line, Electric, Cable, Telephone, Water Main, Storm Sewer, Roof Drain, Sanitary Sewer, Sanitary Force Main, Fiber Optics, Fence, Contours, Right of Way, Property Line, Easement, Guardrail, Tree Line.

Table listing symbols for existing and proposed structures: Flagpole, Mailbox, Sign, Cable Pedestal, Electric Pedestal, Pull Box, Ground Light, Light Pole, Electric Meter, Electric Manhole, Gas Meter, Gas Valve, Gas Box, Utility Pole, Guy Wire, Sanitary Manhole, Sanitary Cleanout, Storm Manhole, Curb Inlet, Catch Basin, Storm Cleanout, Telephone Manhole, Telephone Pedestal, Fire Hydrant, Water Meter, Water Valve, Bushes/Trees, Survey Benchmark, Test Boring Location.

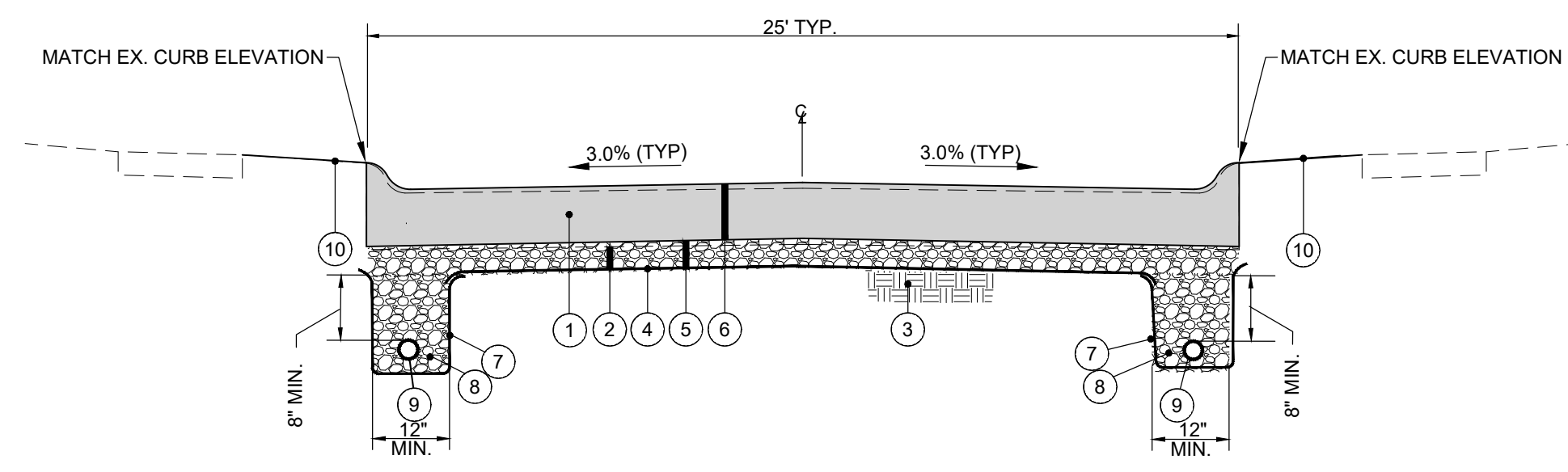
Logo for 'your trusted advisor consultants' with roles: engineers, architects, planners.

Table with columns: DATE, REVISION, NO, BID, ISSUED FOR, ISSUE DATE, SCALE, DESIGNED BY, DRAWN BY, CHECKED BY.

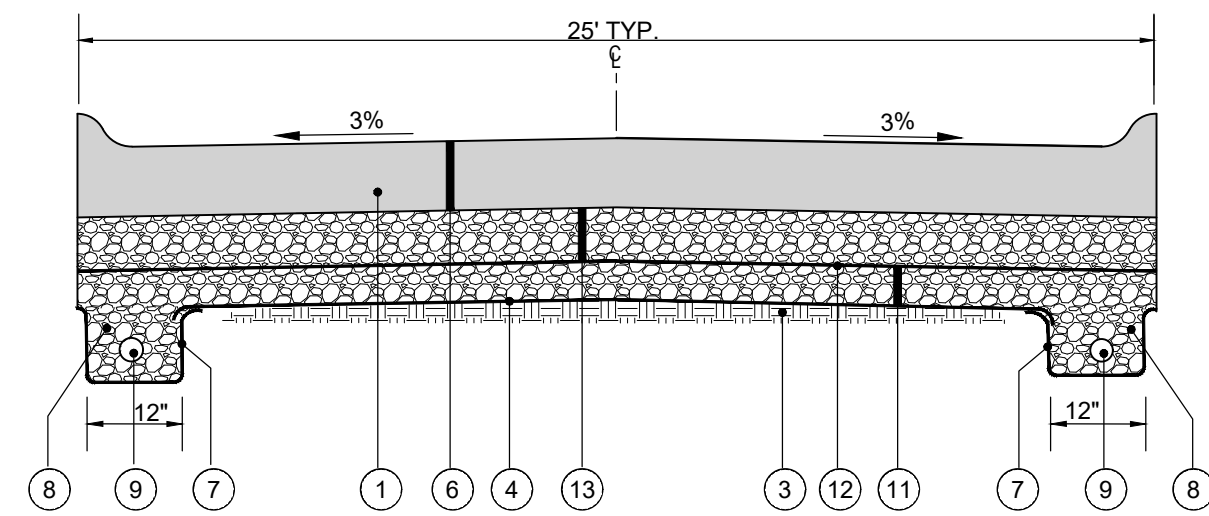
Project title: HANOVER PLACE RECONSTRUCTION CITY OF FORT THOMAS - CAMPBELL COUNTY, KY - NOTES AND LEGEND

Table with project details: PROJECT NO. 241381, DISCIPLINE CIVIL, SHEET 2 OF 5.





**CONCRETE PAVEMENT REPLACEMENT TYPICAL SECTION**  
N.T.S.

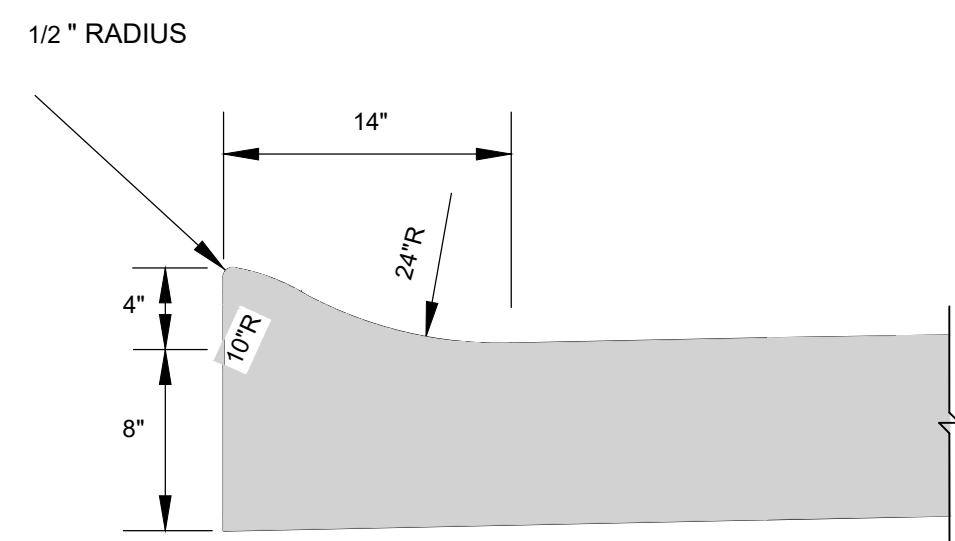


**GEOGRID REINFORCEMENT AND GRAVEL BASE FOR SUBGRADE REPAIR**  
\*\*CONTINGENCY ITEM TO BE USED AT ENGINEER'S DISCRETION

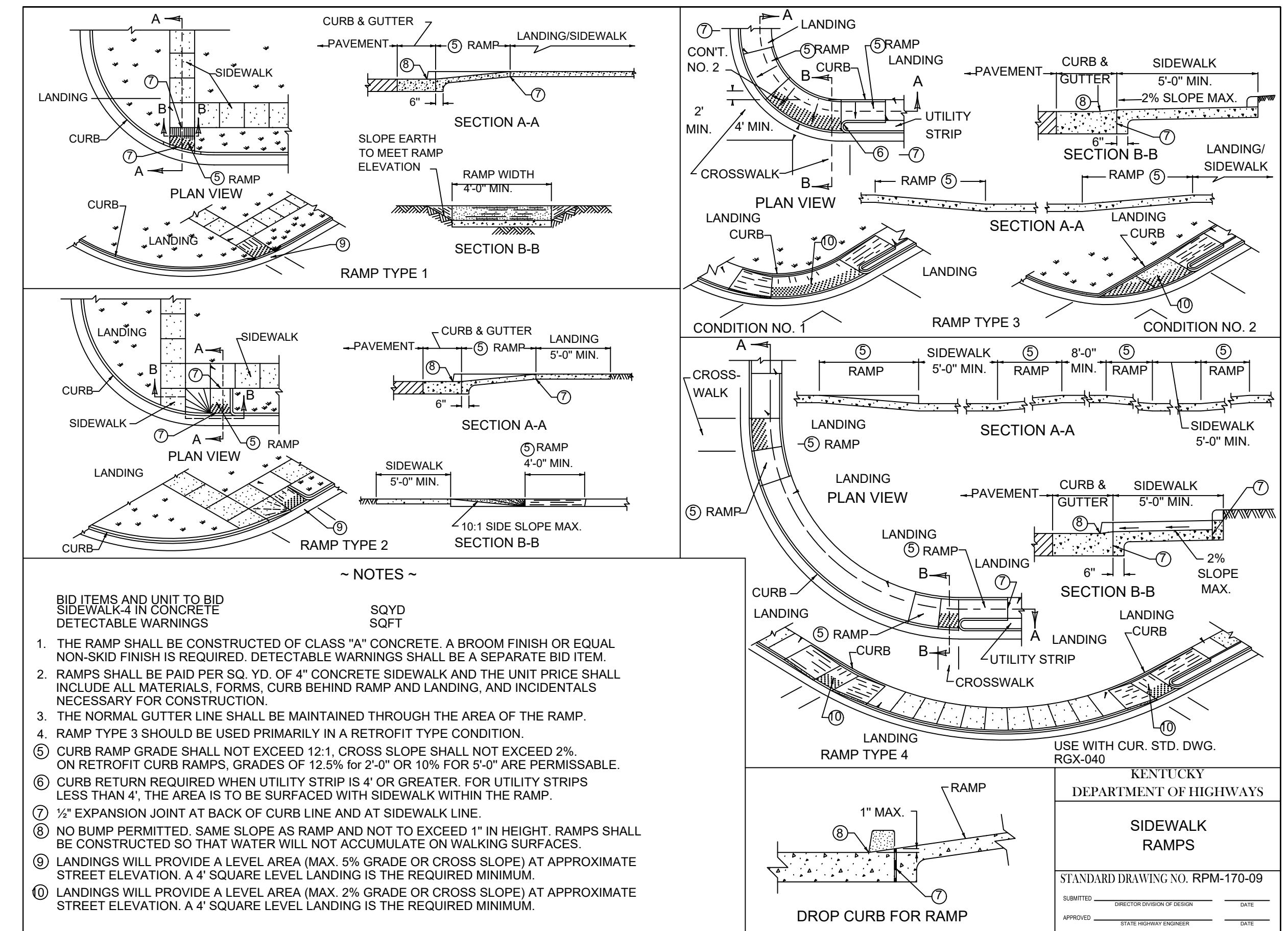
- ① ITEM 203 - REMOVE EXISTING PAVEMENT.
- ② ITEM 204 - EXCAVATION FOR GRANULAR BASE
- ③ ITEM 207 - SUBGRADE RESHAPING & COMPACTING. SUBGRADE SHALL BE TRIMMED AND ROLLED SMOOTH FOR DRAINAGE SO GEOTEXTILE CAN BE SPREAD SMOOTH, TAUT AND EVEN BEFORE STONE IS PLACED.
- ④ ITEM 214 - WOVEN GEOTEXTILE, MIRAFI 600X OR EQUIVALENT, ALL OVERLAPS TO BE 18" MIN.
- ⑤ ITEM 302 - 4" CRUSHED STONE BASE (LESS THAN 7% FINES) COMPACTED TO 100%
- ⑥ ITEM SPL - 8" PORTLAND CEMENT CONCRETE PAVEMENT - PER FORT THOMAS SUBDIVISION REGULATIONS WITH 4" ROLLED CURB.
- ⑦ ITEM SPL - NONWOVEN GEOTEXTILE, MIRAFI 140N OR EQUIVALENT (INCIDENTAL TO PIPE UNDERDRAIN OR EDGE DRAIN)
- ⑧ ITEM 302 - CLEAN NO. 57 CRUSHED STONE (LESS THAN 3% FINES) (INCIDENTAL TO PIPE UNDERDRAIN OR EDGE DRAIN)
- ⑨ ITEM 704 - 4" RIGID PVC PERFORATED PIPE UNDERDRAIN
- ⑩ ITEM SPL - YARD RESTORATION (4" TOPSOIL, SEED AND MULCH) - KEEP TO A MINIMUM.
- ⑪ ITEM 302/SPL \*\* - 6" CRUSHED STONE BASE (LESS THAN 7% FINES) FOR SUBGRADE REPAIR
- ⑫ ITEM SPL \*\* - GEOGRID (TENSAR BX 1200 OR EQUIVALENT), PLACE ON TOP 6 INCHES OF CLEAN CRUSHED STONE BASE.
- ⑬ ITEM SPL \*\* - VARIABLE THICKNESS (4" - 10") CRUSHED STONE BASE (LESS THAN 7% FINES) FOR SUBGRADE REPAIR

\* SUBGRADE RESHAPING AND COMPACTING SHALL BE PER KTC ITEM 207. A PROOF ROLL WILL BE REQUIRED PRIOR TO PLACING STONE BASE OR CONCRETE PAVEMENT. SOFT OR YIELDING SUITABLE SUBGRADE MATERIAL LACKING PROPER COMPACTION OR MOISTURE CONTENT SHALL BE SCARIFIED, AERATED, DRIED AND RECOMPACTED. THE COST FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "SUBGRADE RESHAPING AND COMPACTING." SOFT OR YIELDING UNSUITABLE SUBGRADE SHALL BE REMOVED AND REPLACED PER THE "GEOGRID REINFORCEMENT AND GRAVEL BASE FOR SUBGRADE REPAIR" DETAIL, AS DIRECTED BY THE ENGINEER

\*\* CONTINGENCY ITEM TO BE USED ONLY AS DIRECTED BY THE ENGINEER.

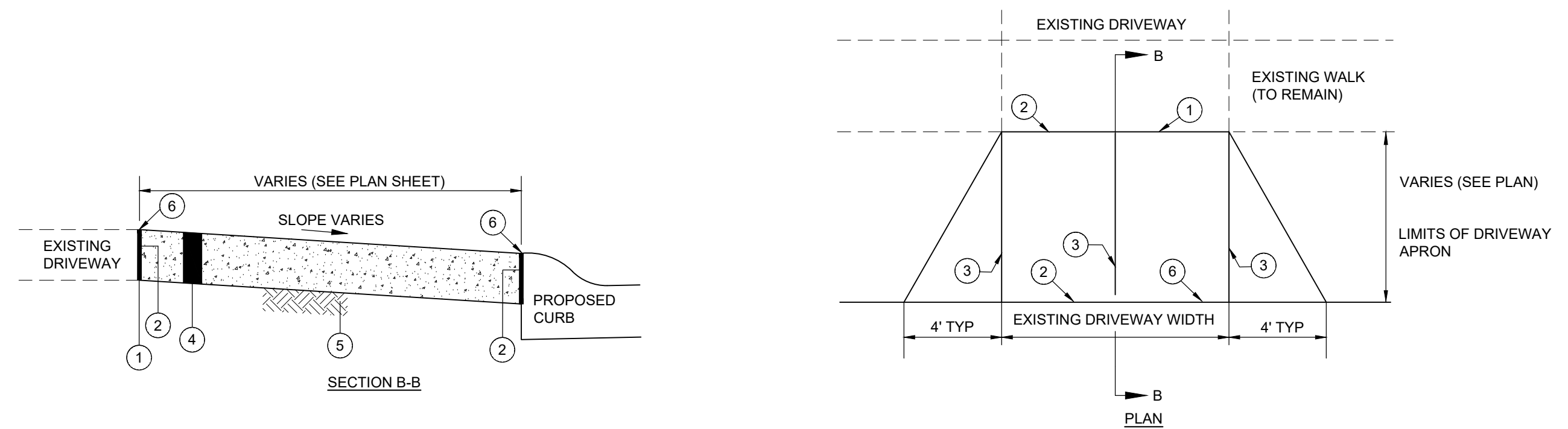


**4" ROLLED CURB DETAIL**  
(INTEGRAL TO CONCRETE PAVEMENT)  
N.T.S.



- ~ NOTES ~**
- 1. THE RAMP SHALL BE CONSTRUCTED OF CLASS "A" CONCRETE. A BROOM FINISH OR EQUAL NON-SKID FINISH IS REQUIRED. DETECTABLE WARNINGS SHALL BE A SEPARATE BID ITEM.
  - 2. RAMP SHALL BE PAID PER SQ. YD. OF 4" CONCRETE SIDEWALK AND THE UNIT PRICE SHALL INCLUDE ALL MATERIALS, FORMS, CURB BEHIND RAMP AND LANDING, AND INCIDENTALS NECESSARY FOR CONSTRUCTION.
  - 3. THE NORMAL GUTTER LINE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP.
  - 4. RAMP TYPE 3 SHOULD BE USED PRIMARILY IN A RETROFIT TYPE CONDITION.
  - ⑤ CURB RAMP GRADE SHALL NOT EXCEED 12:1. CROSS SLOPE SHALL NOT EXCEED 2%. ON RETROFIT CURB RAMP, GRADES OF 12.5% FOR 2'-0" OR 10% FOR 5'-0" ARE PERMISSIBLE.
  - ⑥ CURB RETURN REQUIRED WHEN UTILITY STRIP IS 4' OR GREATER. FOR UTILITY STRIPS LESS THAN 4', THE AREA IS TO BE SURFACED WITH SIDEWALK WITHIN THE RAMP.
  - ⑦ 1/2" EXPANSION JOINT AT BACK OF CURB LINE AND AT SIDEWALK LINE.
  - ⑧ NO BUMP PERMITTED. SAME SLOPE AS RAMP AND NOT TO EXCEED 1" IN HEIGHT. RAMP SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.
  - ⑨ LANDINGS WILL PROVIDE A LEVEL AREA (MAX. 5% GRADE OR CROSS SLOPE) AT APPROXIMATE STREET ELEVATION. A 4' SQUARE LEVEL LANDING IS THE REQUIRED MINIMUM.
  - ⑩ LANDINGS WILL PROVIDE A LEVEL AREA (MAX. 2% GRADE OR CROSS SLOPE) AT APPROXIMATE STREET ELEVATION. A 4' SQUARE LEVEL LANDING IS THE REQUIRED MINIMUM.

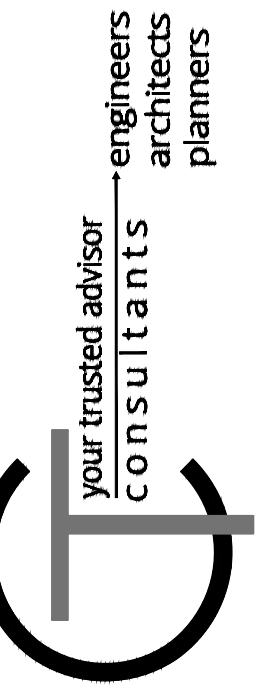
KENTUCKY  
DEPARTMENT OF HIGHWAYS  
**SIDEWALK RAMP**  
STANDARD DRAWING NO. RPM-170-09  
SUBMITTED: \_\_\_\_\_ DATE: \_\_\_\_\_  
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_



- ① SAWCUT AT NEAREST JOINT AND REMOVE EXISTING CONCRETE PAVEMENT (INCIDENTAL TO ITEM SPL)
- ② 1" PREFORMED EXPANSION JOINT MATERIAL (FLEXIBLE FOAM-CERAMAR BY W.R. MEADOWS OR APPROVED EQUAL) - INCIDENTAL TO DRIVEWAY REPLACEMENT
- ③ TOOLED JOINT
- ④ ITEM SPL - 6" CONCRETE DRIVEWAY/APRON (PER KENTON COUNTY SUBDIVISION REGULATIONS)
- ⑤ ITEM 207 - COMPACTED SUBGRADE (INCIDENTAL TO ITEM SPL - 6" CONCRETE DRIVEWAY/APRON)
- ⑥ SEAL JOINT WITH GRAY SELF LEVELING SEALANT (SIKA FLEX OR APPROVED EQUAL)

**CONCRETE DRIVEWAY REPLACEMENT**  
(WITH SIDEWALK)  
N.T.S.

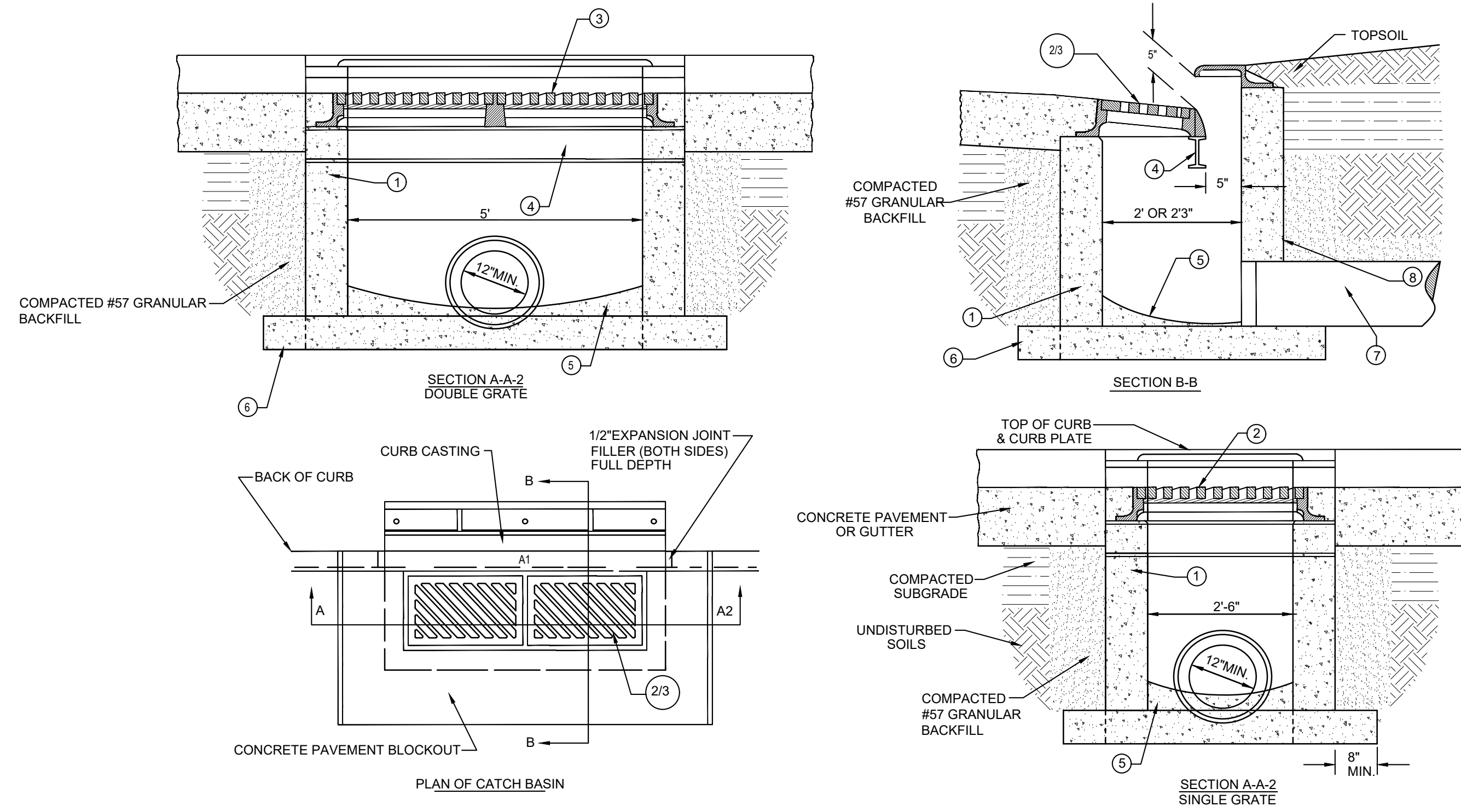
- NOTE:
- 1. ANY YARD AREA DISTURBED BY THE CONSTRUCTION OF THE DRIVEWAY APRON SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH (INCIDENTAL TO CONCRETE DRIVEWAY APRON REPLACEMENT).
  - 2. ALL EXCAVATION REQUIRED FOR THE PLACEMENT OF THE PROPOSED DRIVEWAY SHALL BE INCIDENTAL TO CONCRETE DRIVEWAY REPLACEMENT BID ITEM.



NO.	REVISION	DATE

**HANOVER PLACE  
RECONSTRUCTION  
CITY OF FORT THOMAS  
- CAMPBELL COUNTY, KY -  
DETAIL SHEET 1**

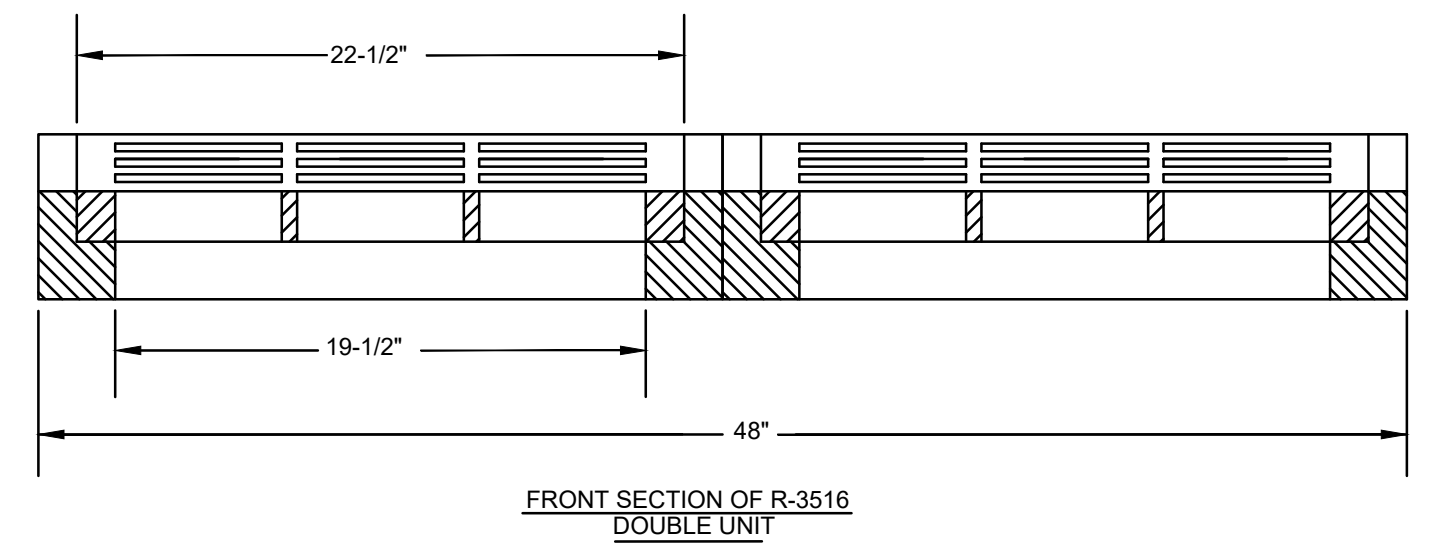
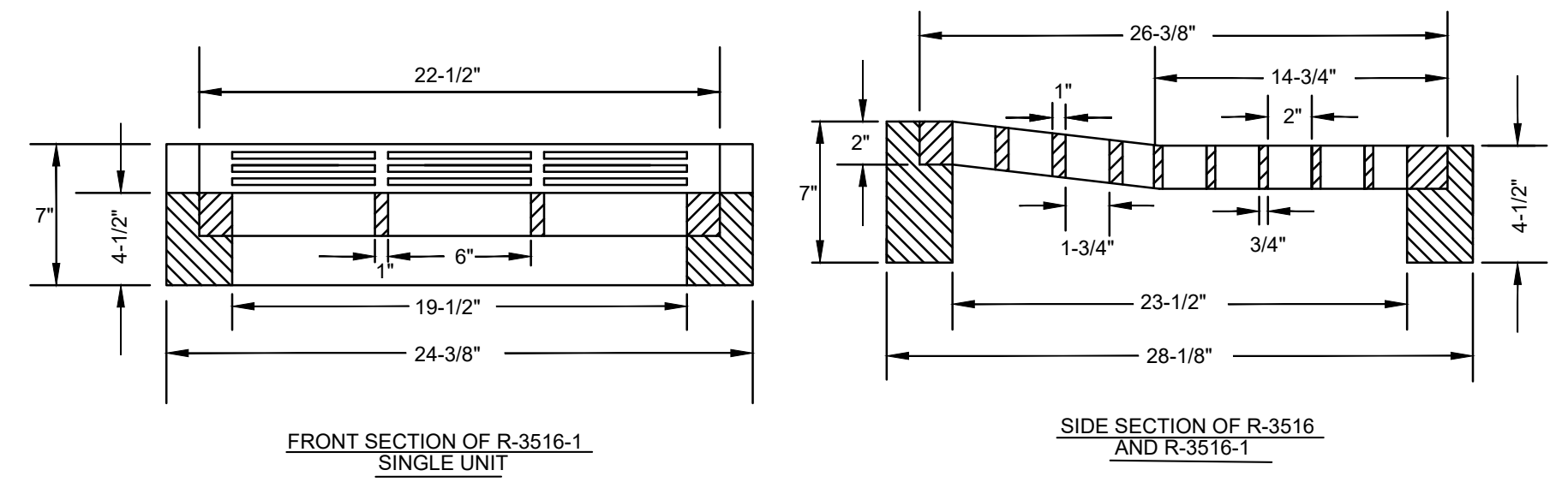
PROJECT NO.	241381
DISCIPLINE	CIVIL
SHEET NAME	DTL-01
SHEET	3
OF	5



- 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).

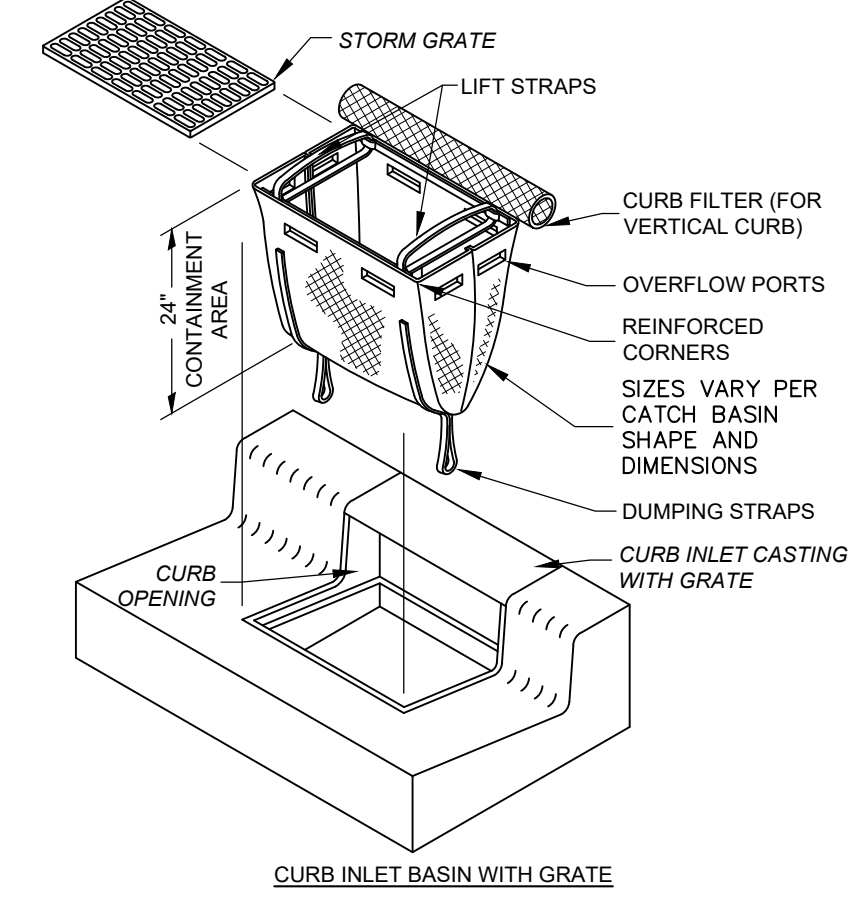
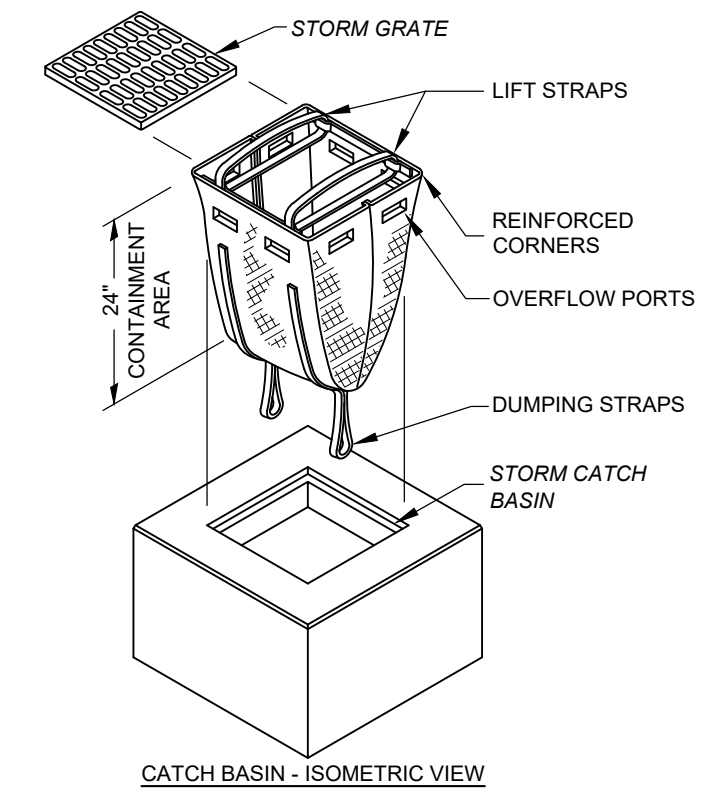
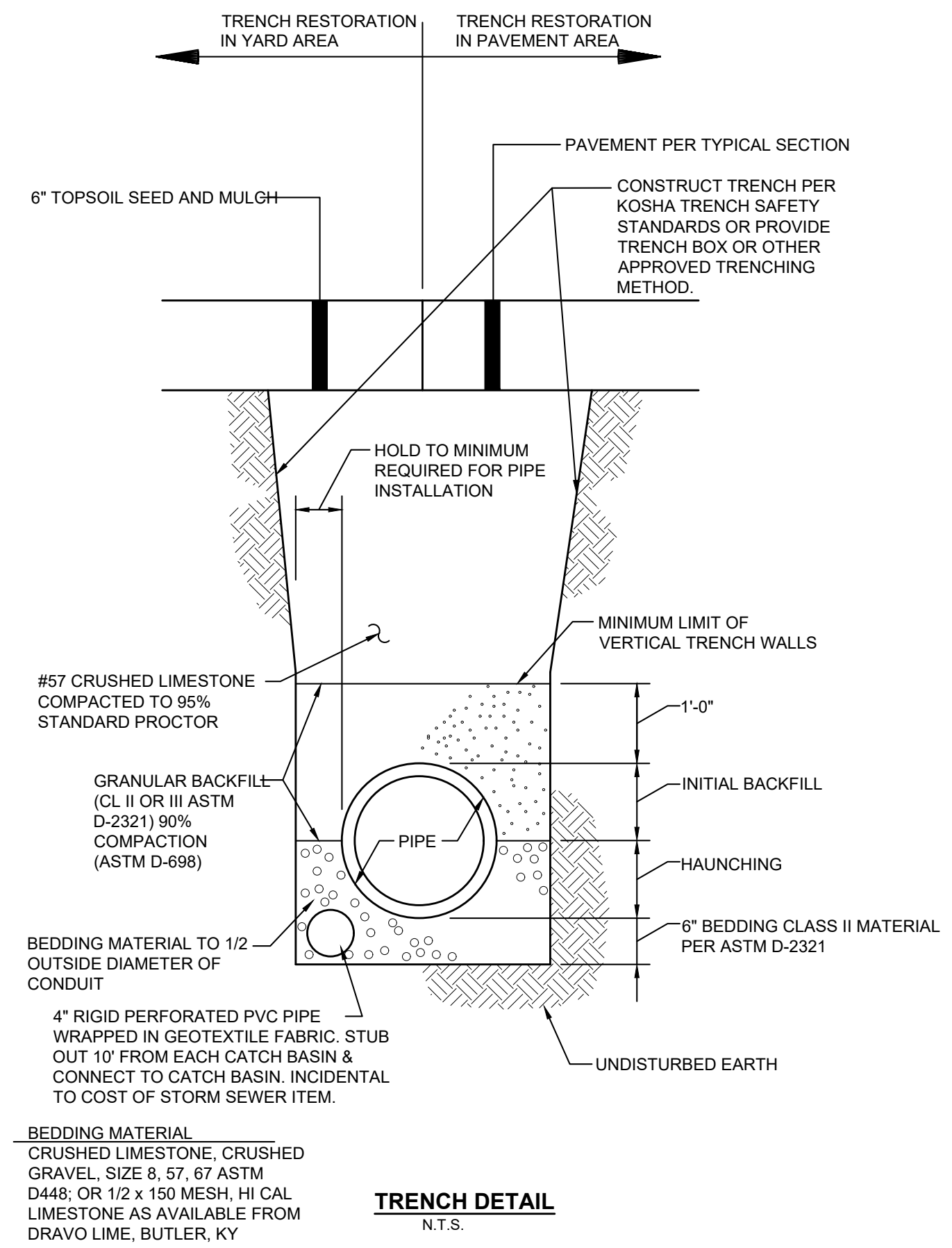
**STANDARD CURB INLET**  
N.T.S.

NOTE: ADJUST CURB INLET TO MATCH ROADWAY SLOPE

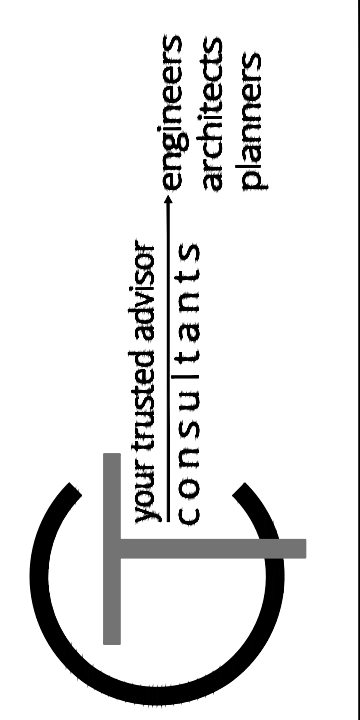


**CURB INLET FOR DRIVEWAY & MOUNTABLE GRATE**

- NOTES**
- 1. SPECIFICATIONS PER NEENAH R-3516 SERIES OR APPROVED EQUAL.
  - 2. INLET CONSTRUCTION SHALL CONFORM TO DETAIL FOR STANDARD CURB INLET



**IP STORM DRAIN INLET PROTECTION DETAIL**  
SCALE: NONE

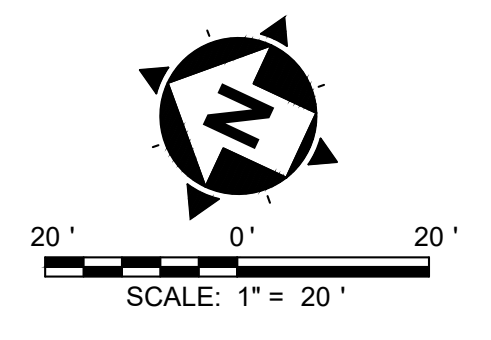
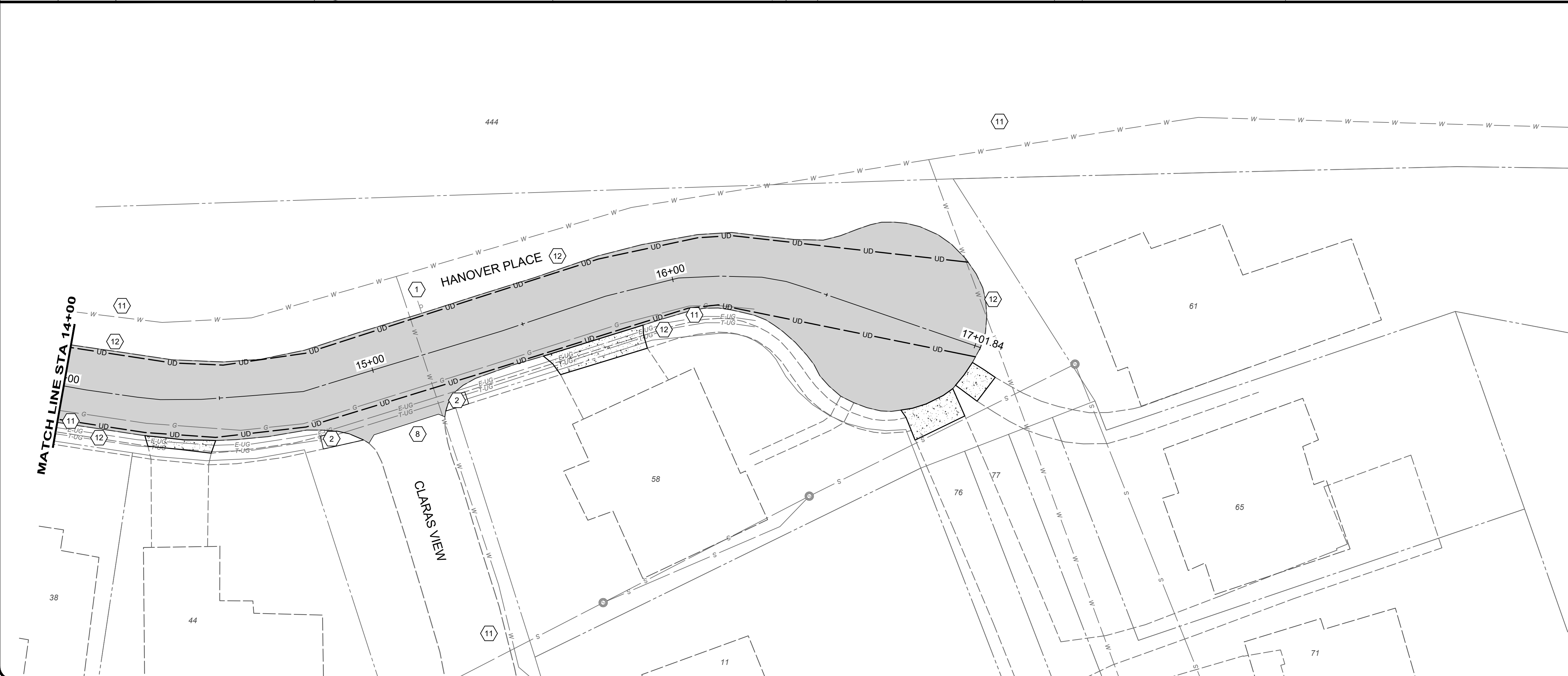
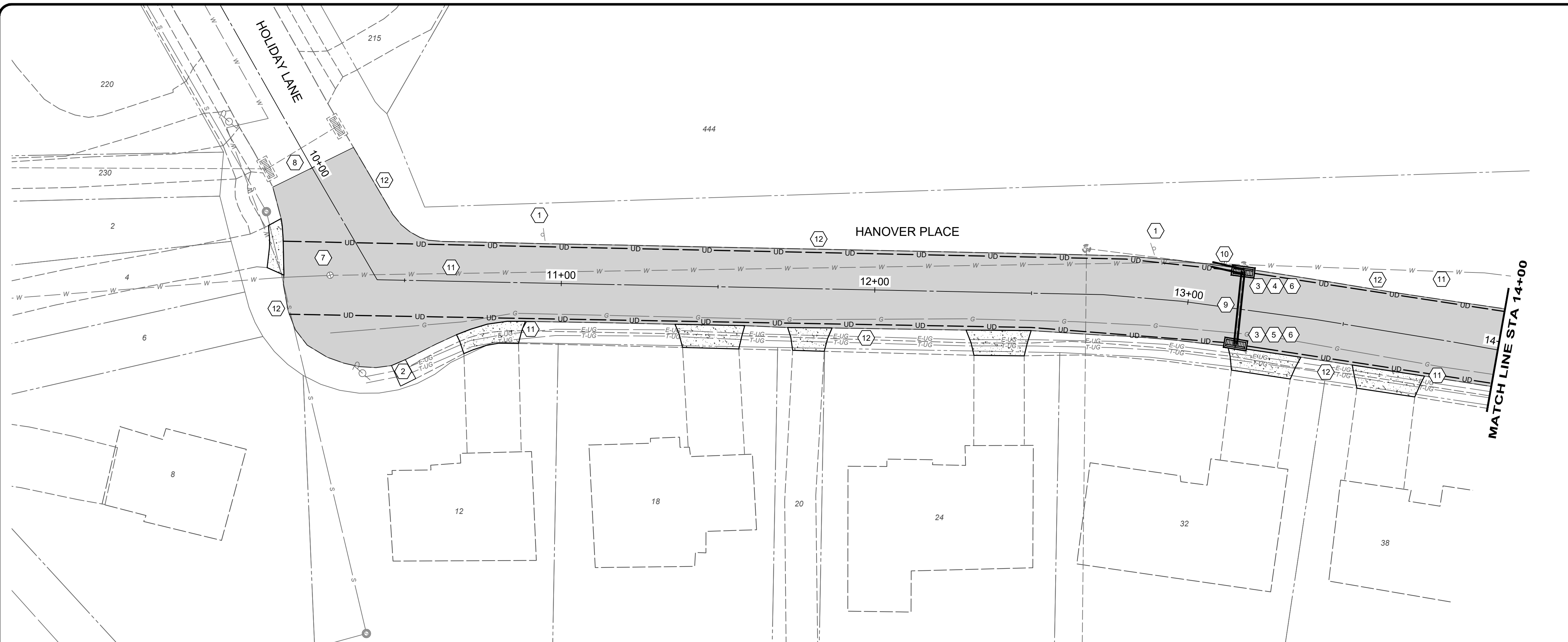


ISSUED FOR:	BID	NO	REVISION	DATE
ISSUE DATE: 04/18/2024	AS SHOWN			
SCALE:	RSEI			
DESIGNED BY:	RSEI			
DRAWN BY:	RSEI			
CHECKED BY:	FTWE			

**HANOVER PLACE  
RECONSTRUCTION  
CITY OF FORT THOMAS  
- CAMPBELL COUNTY, KY -**

**DETAIL SHEET 2**

PROJECT NO.	241381
DISCIPLINE	CIVIL
SHEET NAME	DTL-02
SHEET	4
OF	5

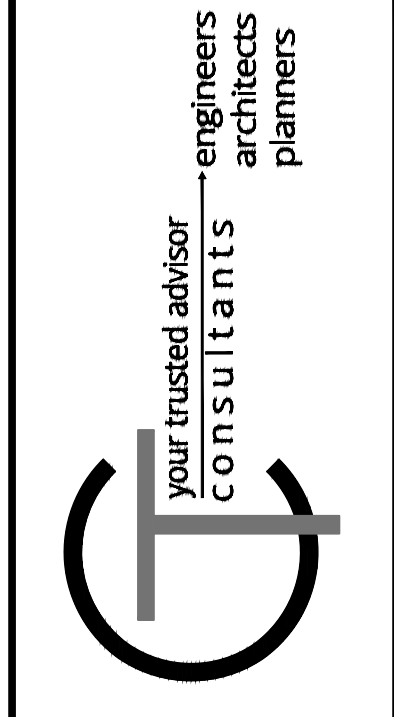


**CONSTRUCTION NOTES**

- 1 REMOVE, SALVAGE, & REINSTALL/RELOCATE EXISTING SIGN AS NEEDED (INCIDENTAL TO ITEM 202 - CLEARING AND GRUBBING).
- 2 REMOVE EXISTING SIDEWALK AND INSTALL PROPOSED ADA CURB RAMP (COST OF REMOVAL, NEW CONCRETE, AND DETECTABLE WARNING SHALL BE INCLUDED IN THE ADA RAMP BID ITEM)
- 3 REMOVE EXISTING STORM SEWER STRUCTURE
- 4 INSTALL STANDARD DOUBLE GRATE CURB INLET PER DETAIL.
- 5 INSTALL DOUBLE GRATE INLET WITH MOUNTABLE GRATE.
- 6 CONNECT PROPOSED UNDERDRAIN TO STORM STRUCTURE
- 7 ADJUST WATER VALVE TO FINISHED GRADE
- 8 MATCH EXISTING PAVEMENT
- 9 REMOVE EXISTING PIPE AND REPLACE WITH NEW 12" DIAMETER N-12 PIPE (OR APPROVED EQUAL).
- 10 REMOVE EXISTING PIPE AS NEEDED TO CONNECT TO NEW STORM STRUCTURE AND REPLACE WITH NEW 18" DIAMETER N-12 PIPE (OR APPROVED EQUAL).
- 11 UTILITIES SHOWN ARE BASED ON UTILITY RECORDS AND GIS DATA. ACTUAL LOCATIONS MAY VARY. CONTRACTOR SHALL CALL IN UTILITY LOCATES AND CONFIRM ACTUAL LOCATION OF UTILITIES IN THE FIELD. THE CONTRACTOR SHALL INFORM THE CITY AND THE ENGINEER OF ANY CONFLICTS BETWEEN THE EXISTING UTILITIES AND THE PROPOSED WORK.
- 12 THE PROPOSED CURB LINE SHALL MATCH THE EXISTING CURB'S HORIZONTAL AND VERTICAL LOCATION. MINOR MODIFICATION SHALL BE ALLOWED IF THEY PROVIDE A BENEFIT AND SHALL BE APPROVED BY THE ENGINEER.

**HATCH LEGEND**

- 8" PROPOSED CONCRETE PAVEMENT  
REPLACEMENT WITH GRANULAR BASE  
- SEE TYPICAL SECTIONS
- 6" CONCRETE DRIVEWAY  
REPLACEMENT  
- SEE DETAIL SHEET



ISSUED FOR:	BID NO.	REVISION	DATE
ISSUE DATE: 04/18/2024			
SCALE: AS SHOWN			
DESIGNED BY: RSEI			
DRAWN BY: RSEI			
CHECKED BY: FTWE			

**HANOVER PLACE  
RECONSTRUCTION  
CITY OF FORT THOMAS  
- CAMPBELL COUNTY, KY -  
PLAN SHEET 1**

PROJECT NO. <b>241381</b>	
DISCIPLINE <b>CIVIL</b>	
SHEET NAME <b>PLAN-01</b>	
SHEET <b>5</b>	OF <b>5</b>