



Andy Beshear
GOVERNOR

TRANSPORTATION CABINET

200 Mero Street
Frankfort, Kentucky 40601

Jim Gray
SECRETARY

February 13, 2024

CALL NO. 336
CONTRACT ID NO. 241003
ADDENDUM # 1

Subject: Knott County, EK57 060 1442 000-001
Letting February 22, 2024

- (1) Added - Special Note - Pages 19a-19k of 70
- (2) Revised - Proposal Bid Items - Pages 68-70a of 70
- (3) Revised - Plan Sheets - R2, R2a, R2b, R2c and R12
- (4) Added - Plan Sheets - R31, R32, R33, R34, R35, S1, S2 and S3

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

Rachel Mills,

A handwritten signature in black ink that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:mr
Enclosures

Item No. 12-162.00
EK57 060 1442 000-001

WATER LINE TECHNICAL SPECIFICATIONS

February 5, 2024

PREPARED BY:



TABLE OF CONTENTS

<i>Section</i>	<i>Description</i>	<i>Page</i>
Section 1	Special Provisions	3
Section 2	General Provisions	4
Section 3	Submittals	5
Section 4	Quality Control	8
Section 5	Temporary Facilities	9
Section 6	Encase Water Line	10

SECTION 1

SPECIAL PROVISIONS

1.1 SCOPE

This specification sets forth the OWNER'S special project requirements which are UNIQUE to this project. All requirements of this section shall be considered as integral parts of the successful completion of the project.

All items discussed herein are considered incidental to the overall accomplishment of the Project and no separate payment shall be made for these items.

1.2 CONFLICTING ELEMENTS

In the event of a conflict between the elements of the Contract Documents, the MORE STRINGENT REQUIREMENT ON THE CONTRACTOR SHALL GOVERN.

1.3 COMMUNICATIONS

1.3.1 The CONTRACTOR shall coordinate all work through the ENGINEER.

1.3.2 The CONTRACTOR shall notify the OWNER and ENGINEER at least 10 calendar days prior to any construction activity at the site.

1.4 WORKING HOURS

Working hours shall be defined by the Kentucky Transportation Cabinet (KYTC).

- THE END -

SECTION 2

GENERAL PROVISIONS

2.1 SCOPE

2.2 IDENTIFICATION OF PARTIES

- OWNER:** Knott County Water and Sewer District
- ENGINEER:** The Registered Professional Engineer designated by KYTC to oversee construction and inspection.
- CONTRACTOR:** The Contractor responsible under contract to KYTC to furnish labor, equipment, etc. to complete the work specified herein.
- KYTC:** The entity regulating the roadway and funding the utility relocation.

- THE END -

SECTION 3

SUBMITTALS

3.1 SCOPE

This specification sets forth the procedures to be employed for submitting and processing all CONTRACTOR submittals.

3.2 SHOP DRAWINGS

- 3.2.1 The CONTRACTOR shall submit, for the review of the ENGINEER, Shop Drawings for all fabricated work and for all manufactured items required to be furnished in the Contract and as specified herein. Shop Drawings shall be submitted in sufficient time to allow at least twenty-one (21) calendar days, after receipt of the Shop Drawings from the CONTRACTOR, for checking and processing by the ENGINEER.
- 3.2.2 ENGINEER's review of the CONTRACTOR's drawings shall be considered as a gratuitous service, given as assistance to the CONTRACTOR in interpreting the requirements of the Contract, and in no way shall it relieve the CONTRACTOR of any of his responsibilities under the Contract.
- 3.2.3 Any fabrication, erection, setting, or other Work done in advance of the receipt of Shop Drawings returned by the ENGINEER and noted as "No Exception Taken" or "Make Corrections as Noted" shall be entirely at the CONTRACTOR's risk. The ENGINEER's review will be confined to general arrangement and compliance with the design concept and Specifications only, and will not be for the purpose of checking dimensions, weights, clearances, fitting, tolerances, interferences, coordination of trades, etc.
- 3.2.4 Unless otherwise stated elsewhere in the Contract Drawings or directed by the Engineer, a portable document format (PDF) of all reviewed Shop Drawings shall be furnished to the ENGINEER for his use in accordance with the following sequence of operations:
- A) Initially a PDF copy shall be submitted to the Engineer for review.
 - B) When Shop Drawings are returned for correction, they shall be immediately corrected and resubmitted for review as described above, and such procedures will not be considered as grounds for delay in completing the Work.
 - C) Shop Drawings submitted by subcontractors shall be sent directly to the CONTRACTOR for preliminary checking. The CONTRACTOR shall be responsible for their submission to the ENGINEER at the proper time to prevent delays in delivery of materials.

- D) The CONTRACTOR shall thoroughly check all subcontractor's Shop Drawings regarding measurements, sizes of members, materials, and details to satisfy himself that they conform to the intent of the Specifications. Drawings found to be inaccurate or otherwise in error shall be returned to the subcontractors by the CONTRACTOR for correction before submitting them to the ENGINEER. Before submission, the CONTRACTOR shall mark (stamp) the drawings as being checked and approved by him, dated, and signed. The CONTRACTOR's approval (stamp) shall constitute a representation that all quantities, dimensions, field construction criteria, materials, catalog numbers, performance criteria and similar data have been verified and that, in his opinion, the submittal fully meets the requirements of the Contract Documents and the scope of work involved. Shop Drawings that are not stamped will not be reviewed.
- E) All details on Shop Drawings submitted for review shall clearly show the relation of the various parts and where the Work depends upon field measurements, such measurements shall be obtained by the CONTRACTOR and noted on the Shop Drawings before being submitted to the ENGINEER for review.
- F) All submissions shall be properly referenced to clearly indicate the specification section, location, service, and function of each item. All submissions for one item or group of related items shall be complete. The ENGINEER reserves the right to reject manufacturer's publications in the form of catalogues, pamphlets, or other data sheets when they are submitted in lieu of prepared Shop Drawings. Such submissions shall specifically indicate the item for which approval is requested. Identification of items shall be made in ink, and submissions showing only general information are not acceptable.
- G) If the Shop Drawings contain any departures from the Contract requirements, specific mention thereof shall be made in the CONTRACTOR's letter of transmittal. Where such departures require revisions to layouts or structural changes to the Work, the CONTRACTOR shall, at his own expense, prepare and submit for approval revised layout and structural drawings. Such drawings shall be of the size approved by the ENGINEER.
- H) All shop drawings shall be in English.

3.3 RECORD DRAWINGS

The Contract shall submit Record Drawings to the Engineer no later than the final inspection. The Record Drawings shall consist of the Contract Drawings (3 mil mylar, updated to 'As Built' conditions) and the approved Shop Drawings in reproducible form (3 mil mylar). All items discussed herein are considered incidental to the overall accomplishment of the Project and no separate payment shall be made for these items.

- 3.3.1 Contract Drawings and Shop Drawings shall be legibly marked up to record actual construction including:
- A) All deviations in location or elevation of any underground installation from that shown on the Contract Drawings.
 - B) Any significant changes in above ground installation from approved Shop Drawings or Contract Drawings.
 - C) No such deviations from the Contract Drawings or approved Shop Drawings shall be made without approval by the ENGINEER.
- 3.3.2 Specifications and addenda shall be legibly marked up to record:
- A) Manufacturer, trade name, catalog number, and supplier of each product and item of equipment installed.
 - B) Changes made by Change Order or Field Order.
 - C) Other matters not originally specified.

- THE END -

SECTION 4

QUALITY CONTROL

4.1 CODES, STANDARDS, AND INDUSTRY SPECIFICATIONS

- A) Material or operations specified by reference to published specifications of a manufacturer, testing agency, society, association, or other published standards shall comply with requirements in latest revisions thereof and amendments or supplements thereto in effect on date of Advertisement for Bidders.
- B) Discrepancies between referenced codes, standards, specifications, and Contract Documents shall be governed by the latter unless written interpretation is obtained from ENGINEER.
- C) Material or work specified by reference to conform to a standard, code, law, or regulation shall be governed by Contract Document when they exceed requirements of such references; referenced standards shall govern when they exceed Contract Documents.
- D) Proof of Compliance: Whenever Contract Documents require that a product be in accordance with Federal Specification, American Society for Testing and Materials (ASTM) designation, American National Standards Institute (ANSI) specification, or other association standard, at ENGINEER'S request, CONTRACTOR shall present an affidavit from manufacturer certifying that product complies therewith. Where requested or specified, submit supporting test data to substantiate.

4.2 MANUFACTURER'S DIRECTIONS

Utilize manufactured articles, materials and equipment as directed by manufacturers unless herein specified to the contrary. Discrepancies between an installation required by Contract Documents and manufacturer's instructions and recommendations shall be resolved by ENGINEER before work may proceed. In all cases, the more stringent requirements shall govern.

4.3 TESTING

- A) All testing (when required) will be in accordance with the pertinent codes and regulations and with selected standards of the American Society for Testing and Materials.
- B) The OWNER will select the testing laboratories.
- C) The CONTRACTOR will bear the cost of all testing unless directed otherwise.

- THE END -

SECTION 5

TEMPORARY FACILITIES

5.1 CONTRACTOR'S FIELD OFFICE

A CONTRACTOR'S field office is not required for this project.

5.2 MATERIAL STORAGE

All CONTRACTORS must plan for their staging areas and areas of material storage and are responsible for the protection of materials through installation.

5.3 SANITARY FACILITIES

ALL CONTRACTORS shall provide and maintain all necessary sanitary facilities at the site, in accordance with all applicable regulations, and shall properly remove them at the completion of the project.

5.4 UTILITIES

The CONTRACTOR is responsible for obtaining any temporary utility services required for construction, i.e.: electric.

- THE END -

SECTION 6

ENCASE WATER LINE

6.1 SCOPE

This work shall consist of furnishing and installing steel encasement pipes for potable water lines by open cut methods.

6.2 MATERIALS

6.2.1 Encasement Pipe: Encasement pipe shall be steel, plain end, uncoated, unwrapped, have continuously welded joints, and have a minimum yield strength of 35,000 psi and conform to American Water Works Association (AWWA) Specifications C200. The minimum wall thickness of the encasement pipe shall be as indicated below:

Minimum Wall Thickness based on Encasement Pipe Outside Diameter

12" or less	0.188"
12" – 18"	0.250"
18" – 24"	0.312"
24" – 36"	0.500"
36" – 48"	0.625"

- A) When encasing beneath a railroad or when encasing without the benefit of a protective coating or cathodic protection, increase wall thickness to the next largest standard size.
- B) In general, the inside diameter of the encasement pipe shall be 4 inches greater than the largest outside diameter of the carrier pipe.
- C) Field welding of encasement pipe shall be performed by a certified welder in accordance with the requirements of AWWA Specification C206.

6.2.2 End Seals: A removeable, watertight rubber seal equal to 1/8" thick ethylene propylene diene monomer (EPDM) rubber shall be used to seal the annulus between the excavation and the encasement pipe. Clamps shall be made of heavy-duty stainless steel.

6.2.3 Marker: Each end of the encasement pipe shall be delineated by a marker. The marker shall consist of a three and one-half inch (3-1/2") diameter white post with a domed ID color enhancer on the top (TAPCO Round Dome or approved equal) embedded vertically adjacent to the valve. The marker shall include a weatherproof label identifying the owner and provide an emergency phone number for the owner.

6.3 INSTALLATION - OPEN CUT

No distinction shall be made between open cut through earth or through rock. The CONTRACTOR shall conduct his own investigation of subsurface conditions and shall base his bid on his own findings.

Where the encasement pipe is placed in an open cut, the encasement pipe trenching, bedding, laying, and backfilling shall conform to the requirements of KYTC Standard Specifications for Road and Bridge Construction and the KYTC Standard Drawings (current editions). The carrier pipe and casing spacers shall be installed after the encasement pipe is in place at a later date. Both ends of the encasement pipe shall be closed with a removable, watertight seal.

6.4 MEASUREMENT AND PAYMENT

6.4.1 **W ENCASEMENT STEEL OPEN CUT:** This item shall include the steel encasement pipe size as specified on the plans and in the specifications, end seals, labor, and equipment to open-cut and install the encasement in accordance with the plans and specifications, complete and ready-for-use. The size shall be the measured internal diameter of the encasement pipe. The size encasement to be paid under the size ranges specified in the bid items shall be as follows:

Range 3 = All encasement sizes greater than 10 inches to and including 14 inches

Range 4 = All encasement sizes greater than 14 inches to and including 18 inches

(Encasement sizes of 2 inches internal diameter or less shall not be paid separately but shall be considered incidental to the carrier pipe.) Payment under this bid item shall not include the carrier pipe. Carrier pipe shall be paid under a separate bid item. Please refer to the Utility Company's Specifications. If the Company does not have specifications, KYTC's Specifications shall be referenced. This item shall be paid LINEAR FEET (LF) when complete.

6.4.2 **W LINE MARKER:** This item is for payment for furnishing and installing a water utility line marker as specified by the utility owner specifications and plans. A line marker may consist of a post or monument of whatever materials specified and shall include markings and/or signage on same as specified by plans or specifications. This item shall include all labor, equipment, and materials needed for complete installation of the marker. This item shall be paid EACH (EA) when complete.

- THE END -

PROPOSAL BID ITEMS

241003

Page 1 of 3

Report Date 2/13/24

Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	5,263.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	8.00	TON		\$	
0030	00103		ASPHALT SEAL COAT	1.00	TON		\$	
0040	00190		LEVELING & WEDGING PG64-22	14.00	TON		\$	
0050	00212		CL2 ASPH BASE 1.00D PG64-22	4,068.00	TON		\$	
0070	24970EC		ASPHALT MATERIAL FOR TACK NON-TRACKING	15.60	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0080	00078		CRUSHED AGGREGATE SIZE NO 2	8,994.00	TON		\$	
0090	01000		PERFORATED PIPE-4 IN	62.00	LF		\$	
0100	01005		PERFORATED PIPE EDGE DRAIN-4 IN	5,560.00	LF		\$	
0110	01010		NON-PERFORATED PIPE-4 IN	60.00	LF		\$	
0120	01015		INSPECT & CERTIFY EDGE DRAIN SYSTEM	1.00	LS		\$	
0130	01024		PERF PIPE HEADWALL TY 2-4 IN	5.00	EACH		\$	
0140	01740		CORED HOLE DRAINAGE BOX CON-4 IN	25.00	EACH		\$	
0150	01810		STANDARD CURB AND GUTTER	5,333.00	LF		\$	
0160	02014		BARRICADE-TYPE III	2.00	EACH		\$	
0170	02159		TEMP DITCH	1,400.00	LF		\$	
0180	02160		CLEAN TEMP DITCH	700.00	LF		\$	
0190	02223		GRANULAR EMBANKMENT	7,050.00	CUYD		\$	
0200	02230		EMBANKMENT IN PLACE	19,080.00	CUYD		\$	
0210	02242		WATER	27.00	MGAL		\$	
0220	02273		FENCE-4 FT CHAIN LINK	100.00	LF		\$	
0230	02351		GUARDRAIL-STEEL W BEAM-S FACE	37.50	LF		\$	
0240	02360		GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH		\$	
0250	02432		WITNESS POST TYPE 3 WITNESS POST	14.00	EACH		\$	
0260	02484		CHANNEL LINING CLASS III	183.00	TON		\$	
0270	02545		CLEARING AND GRUBBING 10 ACRES	1.00	LS		\$	
0280	02562		TEMPORARY SIGNS	150.00	SQFT		\$	
0290	02585		EDGE KEY	90.00	LF		\$	
0300	02602		FABRIC-GEOTEXTILE CLASS 1	13,028.00	SQYD		\$	
0310	02604		FABRIC-GEOTEXTILE CLASS 1A	13,650.00	SQYD		\$	
0320	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	9,052.00	SQYD	\$2.00	\$	\$18,104.00
0330	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0340	02701		TEMP SILT FENCE	1,400.00	LF		\$	
0350	02703		SILT TRAP TYPE A	10.00	EACH		\$	
0360	02704		SILT TRAP TYPE B	10.00	EACH		\$	
0370	02705		SILT TRAP TYPE C	10.00	EACH		\$	
0380	02706		CLEAN SILT TRAP TYPE A	10.00	EACH		\$	
0390	02707		CLEAN SILT TRAP TYPE B	10.00	EACH		\$	
0400	02708		CLEAN SILT TRAP TYPE C	10.00	EACH		\$	
0410	02720		SIDEWALK-4 IN CONCRETE	1,507.00	SQYD		\$	

PROPOSAL BID ITEMS

241003

Page 2 of 3

Report Date 2/13/24

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0420	02726		STAKING	1.00	LS		\$	
0430	05950		EROSION CONTROL BLANKET	3,970.00	SQYD		\$	
0440	05952		TEMP MULCH	32,817.00	SQYD		\$	
0450	05953		TEMP SEEDING AND PROTECTION	24,490.00	SQYD		\$	
0460	05963		INITIAL FERTILIZER	2.00	TON		\$	
0470	05964		MAINTENANCE FERTILIZER	2.50	TON		\$	
0480	05985		SEEDING AND PROTECTION	48,981.00	SQYD		\$	
0490	05990		SODDING	3,112.00	SQYD		\$	
0500	05992		AGRICULTURAL LIMESTONE	30.40	TON		\$	
0510	06406		SBM ALUM SHEET SIGNS .080 IN	86.00	SQFT		\$	
0520	06410		STEEL POST TYPE 1	158.00	LF		\$	
0525	06510		PAVE STRIPING-TEMP PAINT-4 IN (ADDED 2-13-24)	13,025.00	LF		\$	
0570	10020NS		FUEL ADJUSTMENT	16,283.00	DOLL	\$1.00	\$	\$16,283.00
0580	10030NS		ASPHALT ADJUSTMENT	19,865.00	DOLL	\$1.00	\$	\$19,865.00
0590	20550ND		SAWCUT PAVEMENT	201.00	LF		\$	
0600	21289ED		LONGITUDINAL EDGE KEY	159.00	LF		\$	
0605	23010EN		PAVE MARK TEMP PAINT STOP BAR-24 IN (ADDED 2-13-24)	95.00	LF		\$	
0610	23158ES505		DETECTABLE WARNINGS	91.00	SQFT		\$	
0620	24540		R/W MONUMENT TYPE 3	14.00	EACH		\$	
0630	24631EC		BARCODE SIGN INVENTORY	14.00	EACH		\$	
0640	24814EC		PIPELINE INSPECTION	1,684.00	LF		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0650	00440		ENTRANCE PIPE-15 IN	266.00	LF		\$	
0660	00462		CULVERT PIPE-18 IN	22.00	LF		\$	
0670	00464		CULVERT PIPE-24 IN	21.00	LF		\$	
0680	00496		CULVERT PIPE-36 IN EQUIV	297.00	LF		\$	
0690	00522		STORM SEWER PIPE-18 IN	1,849.00	LF		\$	
0700	00524		STORM SEWER PIPE-24 IN	435.00	LF		\$	
0710	01204		PIPE CULVERT HEADWALL-18 IN	1.00	EACH		\$	
0720	01432		SLOPED BOX OUTLET TYPE 1-15 IN	12.00	EACH		\$	
0730	01456		CURB BOX INLET TYPE A	24.00	EACH		\$	
0740	01496		DROP BOX INLET TYPE 3	2.00	EACH		\$	

Section: 0004 - STRUCTURES

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0741	08100		CONCRETE-CLASS A (ADDED 2-13-24)	36.70	CUYD		\$	
0742	08150		STEEL REINFORCEMENT (ADDED 2-13-24)	6,220.00	LB		\$	

Section: 0005 - UTILITY

PROPOSAL BID ITEMS

241003

Page 3 of 3

Report Date 2/13/24

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0743	14014		W ENCASEMENT STEEL OPEN CUT RANGE 3 (ADDED 2-13-24)	210.00	LF		\$	
0744	14015		W ENCASEMENT STEEL OPEN CUT RANGE 4 (ADDED 2-13-24)	115.00	LF		\$	
0745	14144		W LINE MARKER (ADDED 2-13-24)	6.00	EACH		\$	

Section: 0006 - DEMOBILIZATION &/OR MOBILIZATION

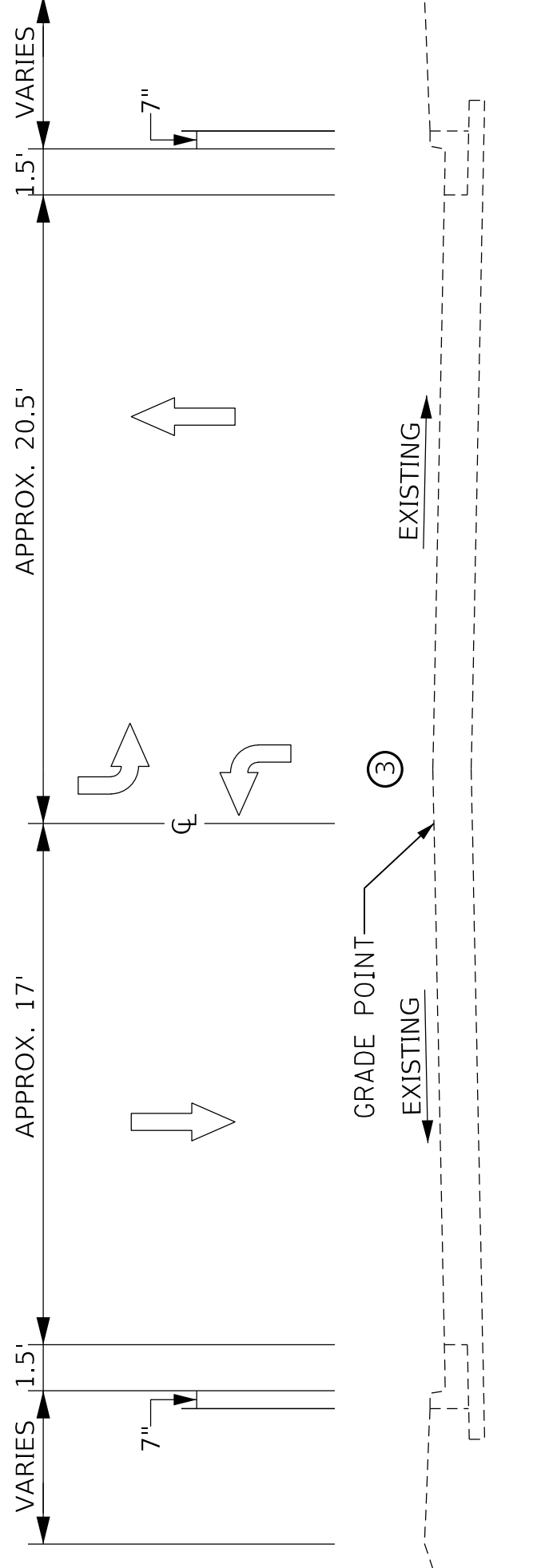
LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0750	02568		MOBILIZATION	1.00	LS		\$	
0760	02569		DEMOBILIZATION	1.00	LS		\$	

TYPICAL SECTIONS

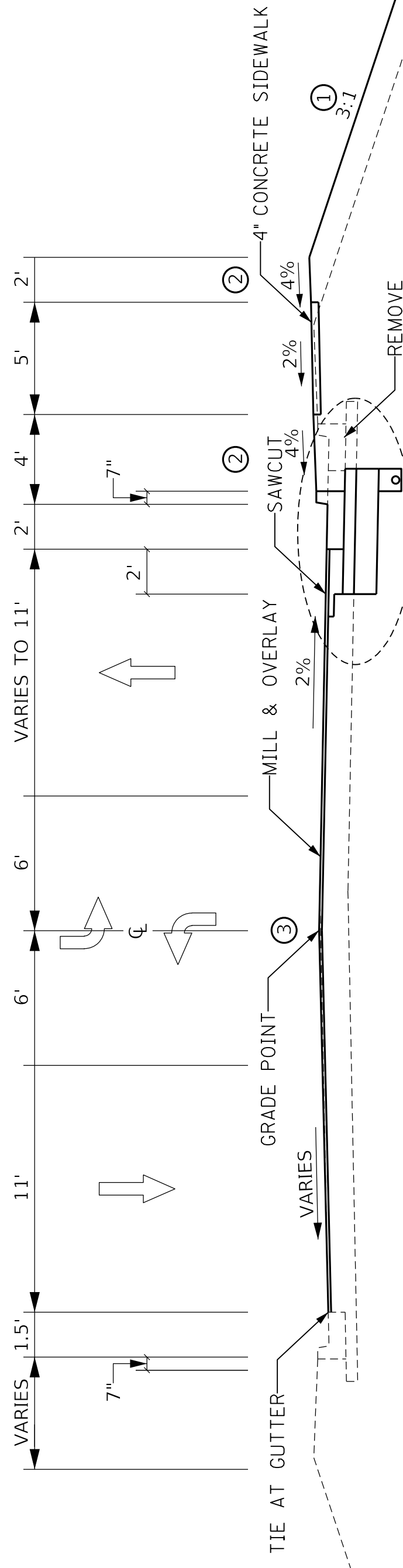
CHESTNUT RIDGE ROAD EXTENSION

GENERAL NOTES

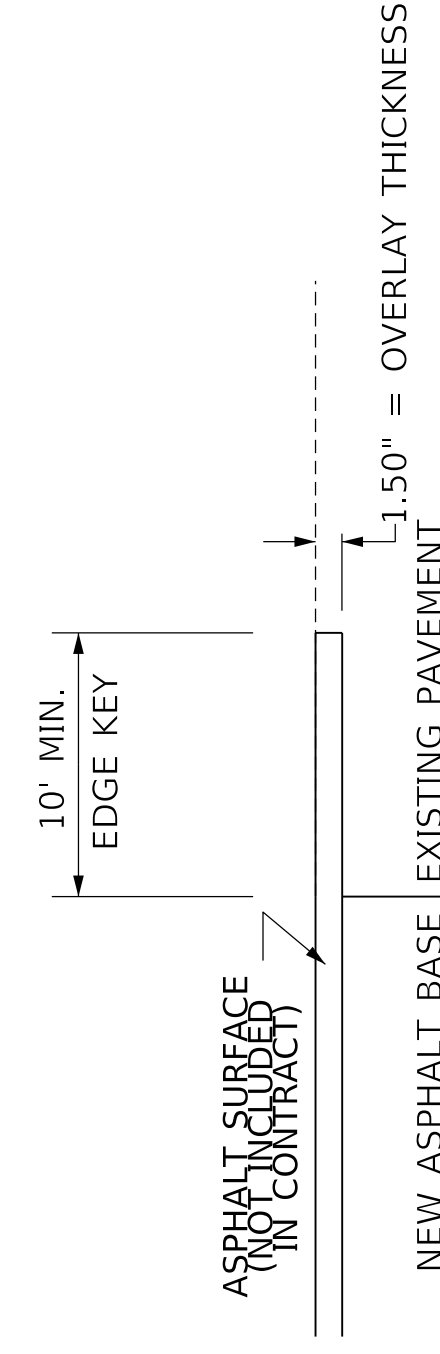
- ① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.
- ② SODDING SHALL BE CONSTRUCTED FROM THE BACK OF ALL CURBS AND SIDEWALKS TO THE BERM OF THEM EMBANKMENT SLOPE.
- ③ MILLING AND OVERLAY IS REQUIRED TO ACHIEVE FINAL PAVEMENT SLOPES DUE TO GROWTH POINT VARYING BETWEEN EXISTING AND PROPOSED PAVEMENT.
- ④ ALL LONGITUDINAL PIPE DRAINAGE SYSTEMS SHALL OUTLET TO A HEADWALL, DITCH BOX, OR CURB BOX INLET. OUTLETS SHALL BE IN A FILL SECTION WHENEVER POSSIBLE. UNLESS OTHERWISE NOTED, OUTLET SPACING SHALL NOT EXCEED 500 FEET EXCEPT FOR GRADES 1% OR LESS. ON THESE GRADES, THE SPACING OF OUTLETS SHALL NOT EXCEED 250 FEET. ALL SAGS SHALL HAVE AN OUTLET.
- ⑤ THE ASPHALT SURFACE WILL NOT BE CONSTRUCTED WITH THIS CONTRACT. INSTALL ASPHALT WEDGING ADJACENT TO CURB INLETS ON UPSTREAM SIDE TO DIRECT RUNOFF TO GUTTERS DURING THE PERIOD OF TIME THAT FINAL SURFACE COURSE IS NOT INSTALLED.



EXISTING



STA. 111+00 TO STA. 111+50



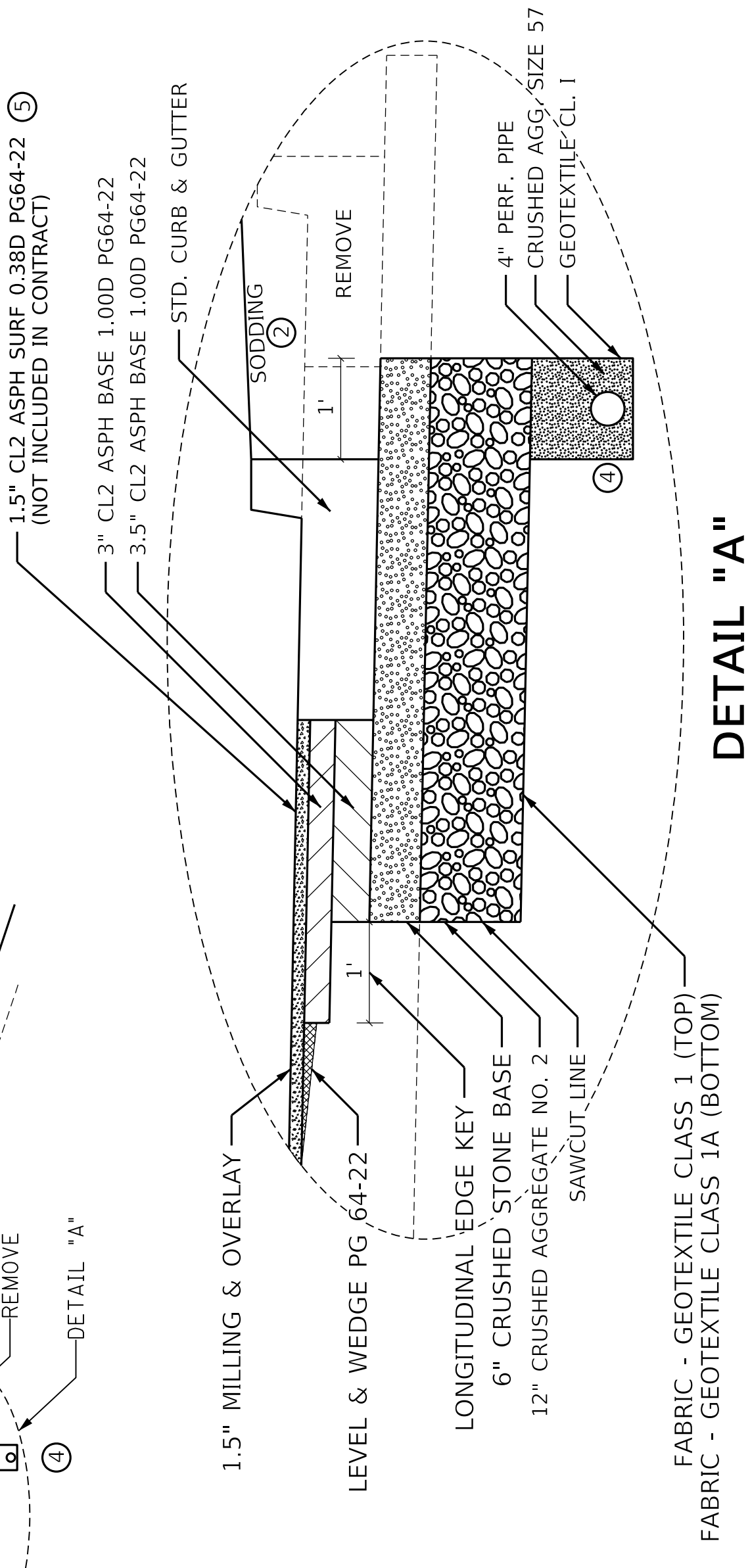
MILL & OVERLAY DETAIL (EDGE KEY)

PAVEMENT OVERLAY

- MILLING & TEXTURING — ⑤
- LEVELING & WEDGING PG64-22 — ⑤
- OVERLAY — ⑤

NEW ASPHALT PAVEMENT CONSTRUCTION

- APPROXIMATELY 12" OF SUBGRADE STABILIZATION — [FABRIC - GEOTEXTILE CLASS 1A (BOTTOM) 12" CRUSHED AGGREGATE NO. 2]
- APPROXIMATELY 12.5" OF BASE — [FABRIC - GEOTEXTILE CLASS 1 (TOP) 6" CRUSHED STONE BASE 3.5" CL2 ASPH BASE 1.00D PG64-22 3" CL2 ASPH BASE 1.00D PG64-22]
- APPROXIMATELY 1.5" OF SURFACE — [1.5" CL2 ASPH SURF 0.38D PG64-22 (NOT INCLUDED IN THIS CONTRACT)]



DETAIL "A"

- FABRIC - GEOTEXTILE CLASS 1 (TOP)
- FABRIC - GEOTEXTILE CLASS 1A (BOTTOM)

REVISED: FEBRUARY 9, 2024



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TYPICAL SECTIONS

ITEM NO.
12-162.00
COUNTY OF
KNOTT
SHEET NO.
R2

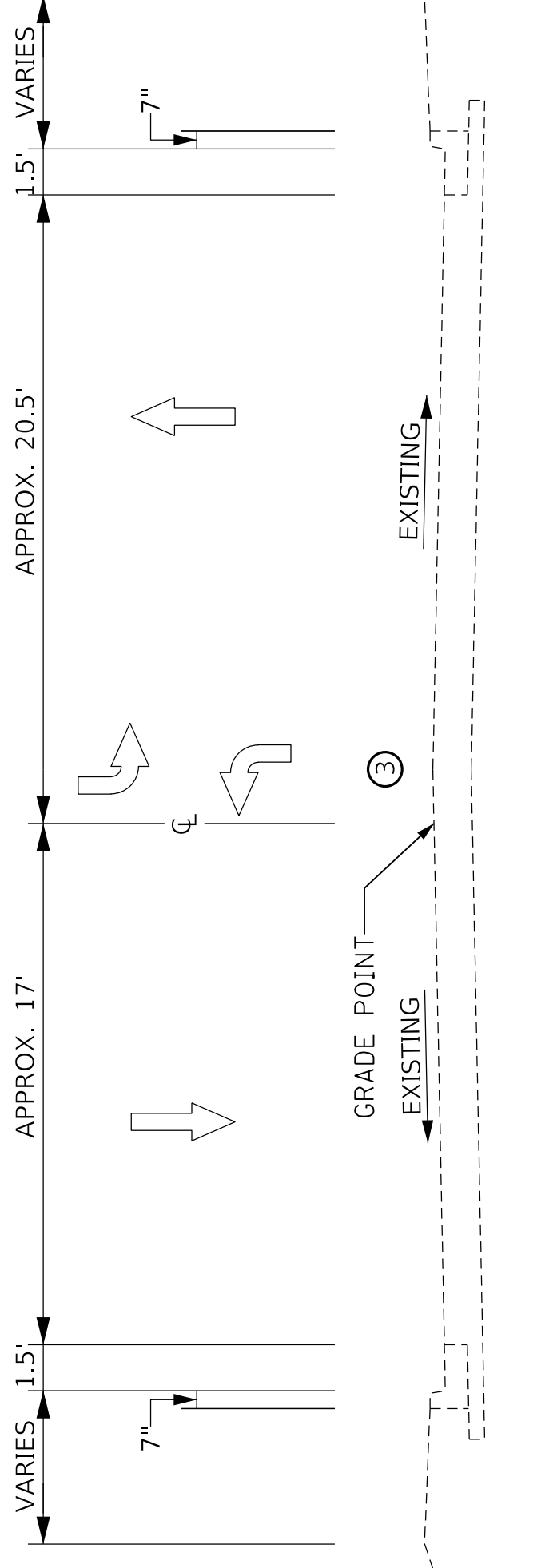
TYPICAL SECTIONS

CHESTNUT RIDGE ROAD EXTENSION

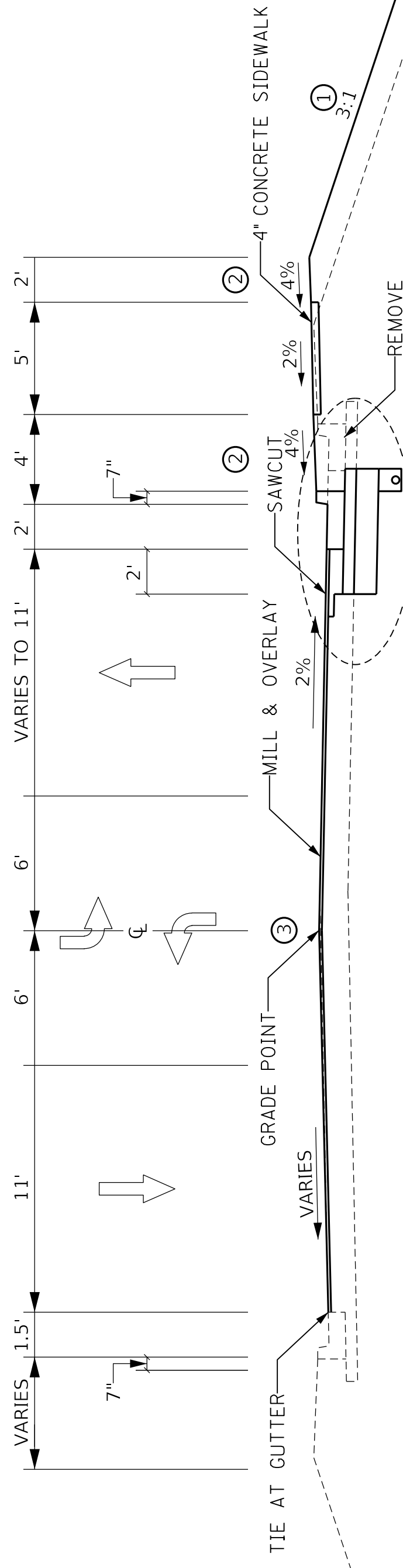
GENERAL NOTES

- ① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.
- ② SODDING SHALL BE CONSTRUCTED FROM THE BACK OF ALL CURBS AND SIDEWALKS TO THE BERM OF THEM EMBANKMENT SLOPE.
- ③ MILLING AND OVERLAY IS REQUIRED TO ACHIEVE FINAL PAVEMENT SLOPES DUE TO GROWTH POINT VARYING BETWEEN EXISTING AND PROPOSED PAVEMENT.
- ④ ALL LONGITUDINAL PIPE DRAINAGE SYSTEMS SHALL OUTLET TO A HEADWALL, DITCH BOX, OR CURB BOX INLET. OUTLETS SHALL BE IN A FILL SECTION WHENEVER POSSIBLE. UNLESS OTHERWISE NOTED, OUTLET SPACING SHALL NOT EXCEED 500 FEET EXCEPT FOR GRADES 1% OR LESS. ON THESE GRADES, THE SPACING OF OUTLETS SHALL NOT EXCEED 250 FEET. ALL SAGS SHALL HAVE AN OUTLET.

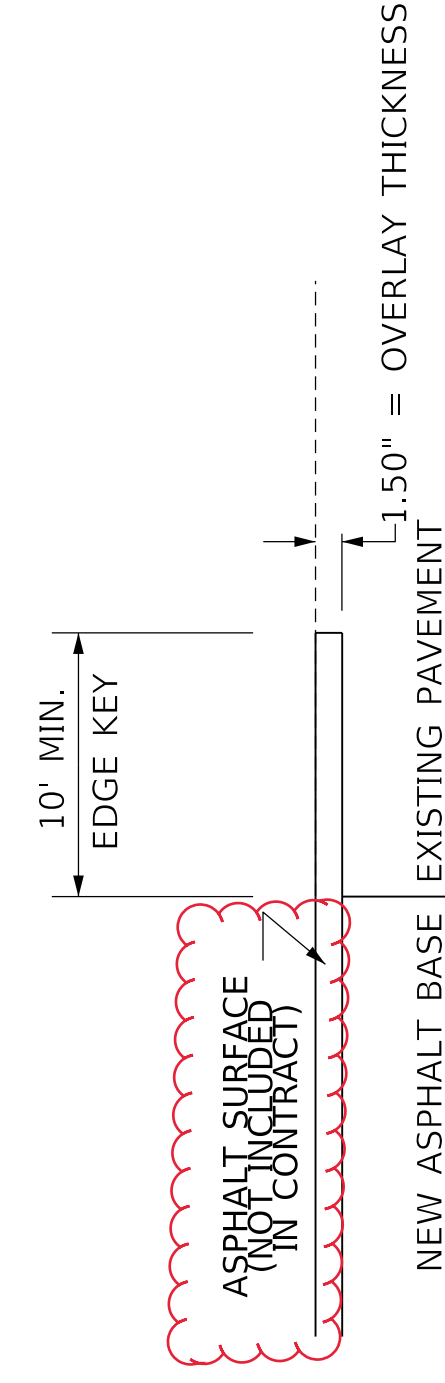
⑤ THE ASPHALT SURFACE WILL NOT BE CONSTRUCTED WITH THIS CONTRACT. INSTALL ASPHALT WEDGING ADJACENT TO CURB INLETS ON UPSTREAM SIDE TO DIRECT RUNOFF TO GUTTERS DURING THE PERIOD OF TIME THAT FINAL SURFACE COURSE IS NOT INSTALLED



EXISTING



STA. 111+00 TO STA. 111+50



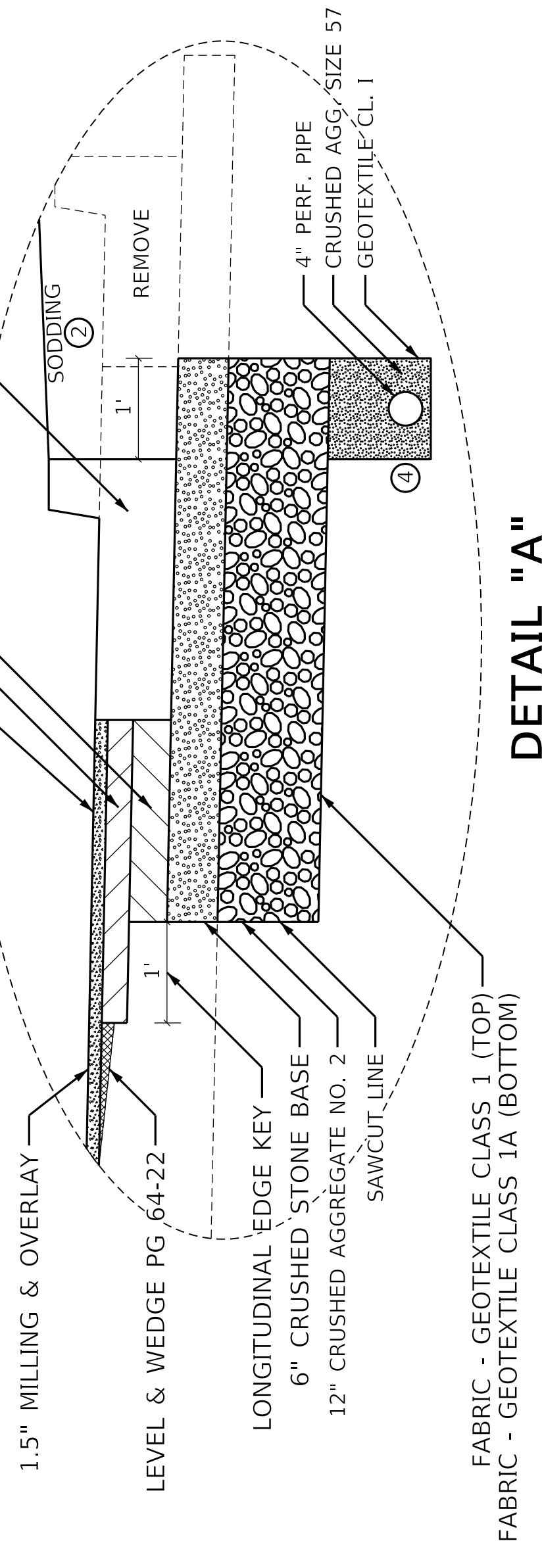
MILL & OVERLAY DETAIL (EDGE KEY)

PAVEMENT OVERLAY

- MILLING & TEXTURING
- LEVELING AND WEDGING OVERLAY
- 1.5" CL2 ASPH SURF 0.38D PG64-22 (NOT INCLUDED IN CONTRACT)

NEW ASPHALT PAVEMENT CONSTRUCTION

- APPROXIMATELY 12" OF SUBGRADE STABILIZATION
- APPROXIMATELY 12.5" OF BASE
- APPROXIMATELY 1.5" OF SURFACE
- 1.5" CL2 ASPH SURF 0.38D PG64-22 (NOT INCLUDED IN THIS CONTRACT)
- 1.5" CL2 ASPH SURF 0.38D PG64-22 (NOT INCLUDED IN THIS CONTRACT)



DETAIL "A"

REVISED: FEBRUARY 9, 2024



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TYPICAL SECTIONS

ITEM NO. 12-162.00
SHEET NO. R2
COUNTY OF KNOTT

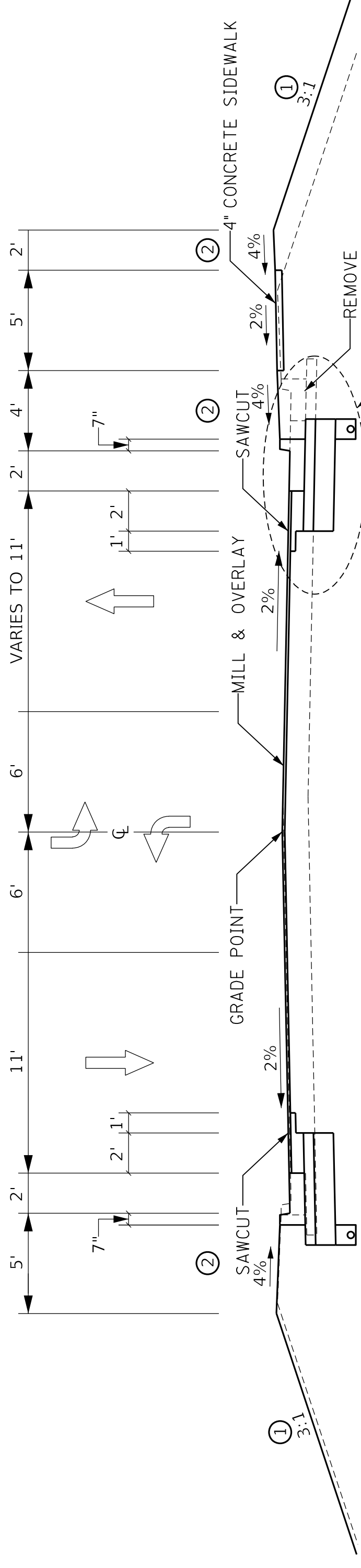
TYPICAL SECTIONS

CHESTNUT RIDGE ROAD EXTENSION

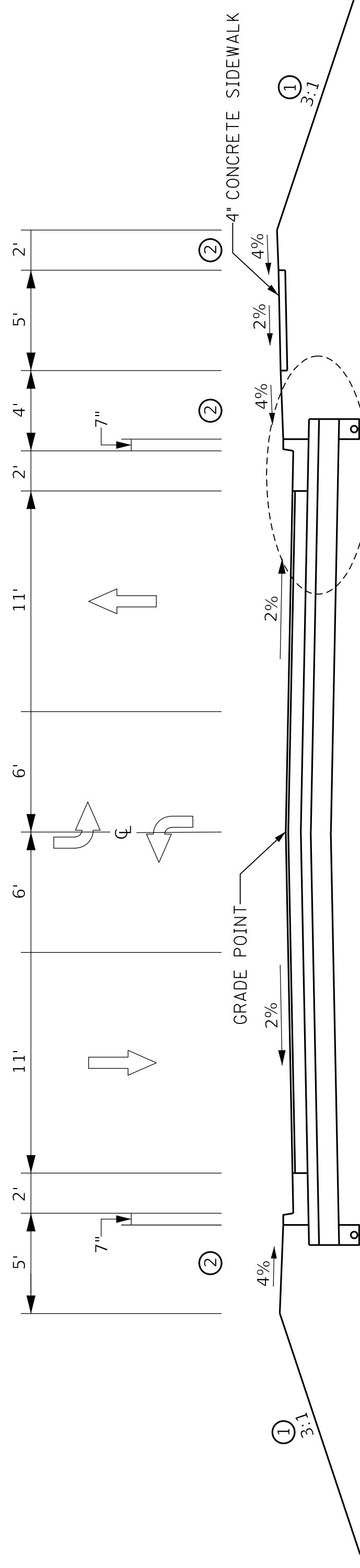
GENERAL NOTES

- ① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.
- ② SODDING SHALL BE CONSTRUCTED FROM THE BACK OF ALL CURBS AND SIDEWALKS TO THE BERM OF THEM EMBANKMENT SLOPE.
- ③ ALL LONGITUDINAL PIPE DRAINAGE SYSTEMS SHALL BE INSTALLED TO A HEADWALL, DITCH BOX, OR CURB BOX OUTLET. ALL OUTLETS SHALL BE IN THE SECTION WITH REVERSE SLOPE UNLESS OTHERWISE NOTED. EXCEPT SPACING SHALL NOT EXCEED 60 FEET. EXCEPT FOR GRADES 1% OR LESS, FEET ON THESE GRADES, THE SPACING OF OUTLETS SHALL NOT EXCEED 250 FEET. ALL SAGS SHALL HAVE AN OUTLET.

- ④ THE ASPHALT SURFACE WILL NOT BE CONSTRUCTED WITH THIS CONTRACT. INSTALL ASPHALT WEDGING ADJACENT TO CURB INLETS ON UPSTREAM SIDE TO DIRECT RUNOFF TO GUTTERS DURING THE PERIOD OF TIME THAT FINAL SURFACE COURSE IS NOT INSTALLED



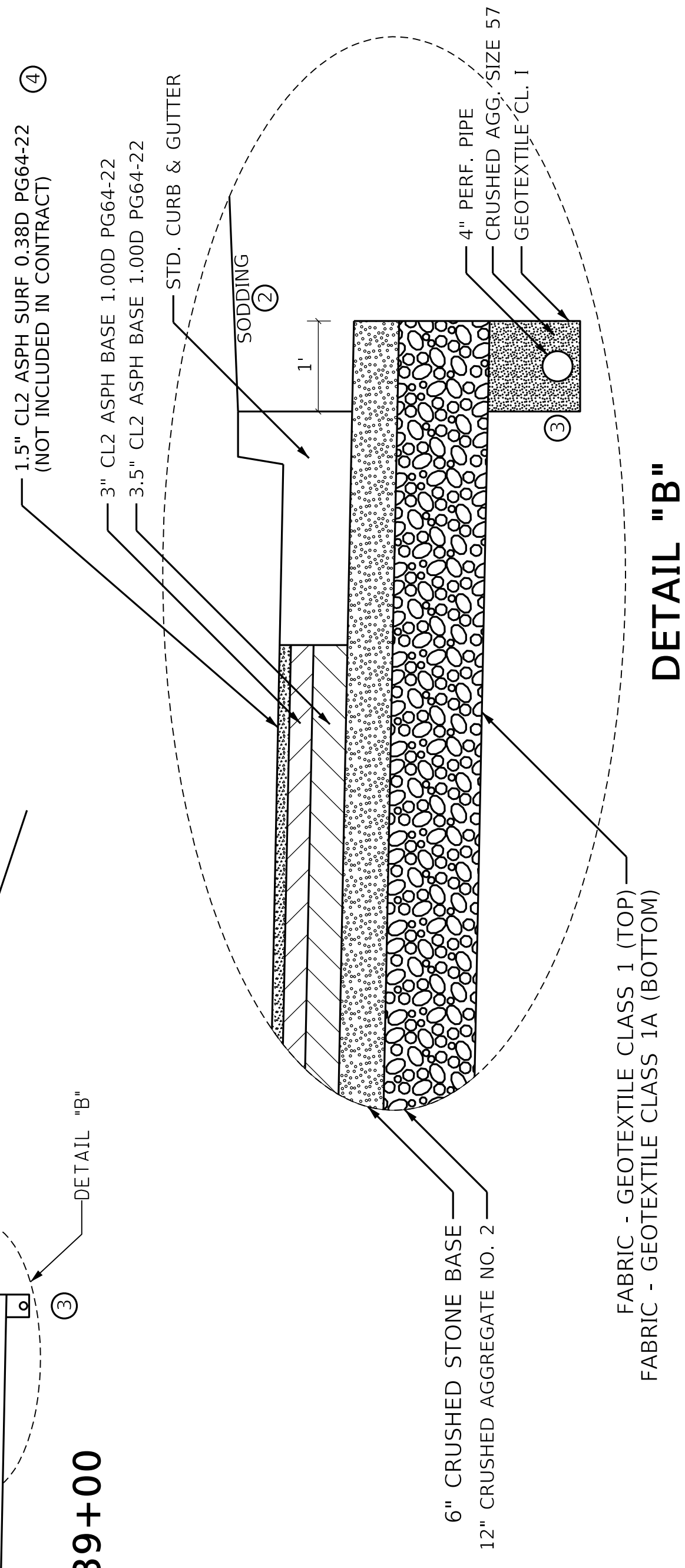
STA. 111+50 TO STA. 112+00



STA. 112+00 TO STA. 139+00

NEW ASPHALT PAVEMENT CONSTRUCTION

- APPROXIMATELY 12" OF SUBGRADE STABILIZATION [[FABRIC - GEOTEXTILE CLASS 1A (BOTTOM)
- APPROXIMATELY 12.5" OF BASE [[12" CRUSHED AGGREGATE NO. 2
- APPROXIMATELY 1.5" OF SURFACE [[FABRIC - GEOTEXTILE CLASS 1 (TOP)
- [[6" CRUSHED STONE BASE
- [[3.5" CL2 ASPH BASE 1.00D PG64-22
- [[3" CL2 ASPH BASE 1.00D PG64-22
- [[1.5" CL2 ASPH SURF 0.38D PG64-22
- [[(NOT INCLUDED IN THIS CONTRACT) ④



DETAIL "B"

TYPICAL SECTIONS

CHESTNUT RIDGE ROAD EXTENSION

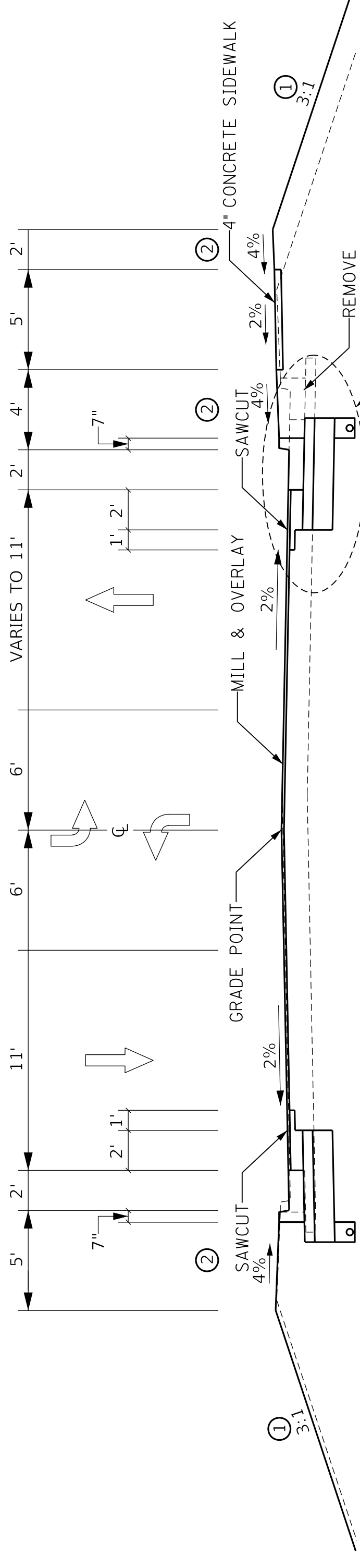
GENERAL NOTES

① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.

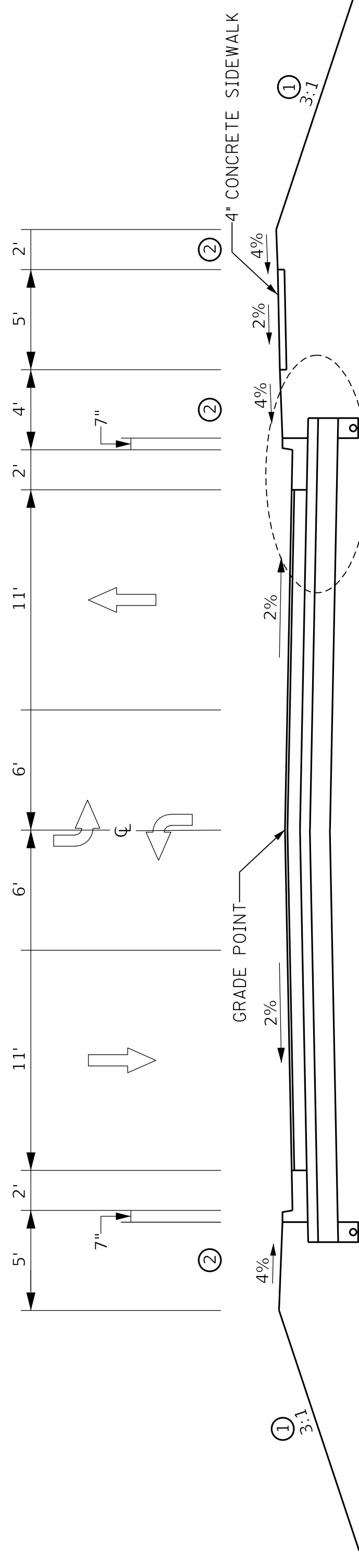
② SODDING SHALL BE CONSTRUCTED FROM THE BACK OF ALL CURBS AND SIDEWALKS TO THE BERM OF THEM EMBANKMENT SLOPE.

③ ALL LONGITUDINAL PIPE DRAINAGE SYSTEMS SHALL BE INSTALLED TO A HEADWALL, DITCH BOX, OR CURB BOX OUTLET. ALL OUTLETS SHALL BE IN THE SECTION UNLESS OTHERWISE NOTED. THE SPACING SHALL NOT EXCEED 60 FEET EXCEPT FOR GRADES 1% OR LESS. FEET ON THESE GRADES. THE SPACING OF OUTLETS SHALL NOT EXCEED 250 FEET. ALL SAGS SHALL HAVE AN OUTLET.

④ THE ASPHALT SURFACE WILL NOT BE CONSTRUCTED WITH THIS CONTRACT. INSTALL ASPHALT WEDGING ADJACENT TO CURB INLETS ON UPSTREAM SIDE TO DIRECT RUNOFF TO GUTTERS DURING THE PERIOD OF TIME THAT FINAL SURFACE COURSE IS NOT INSTALLED



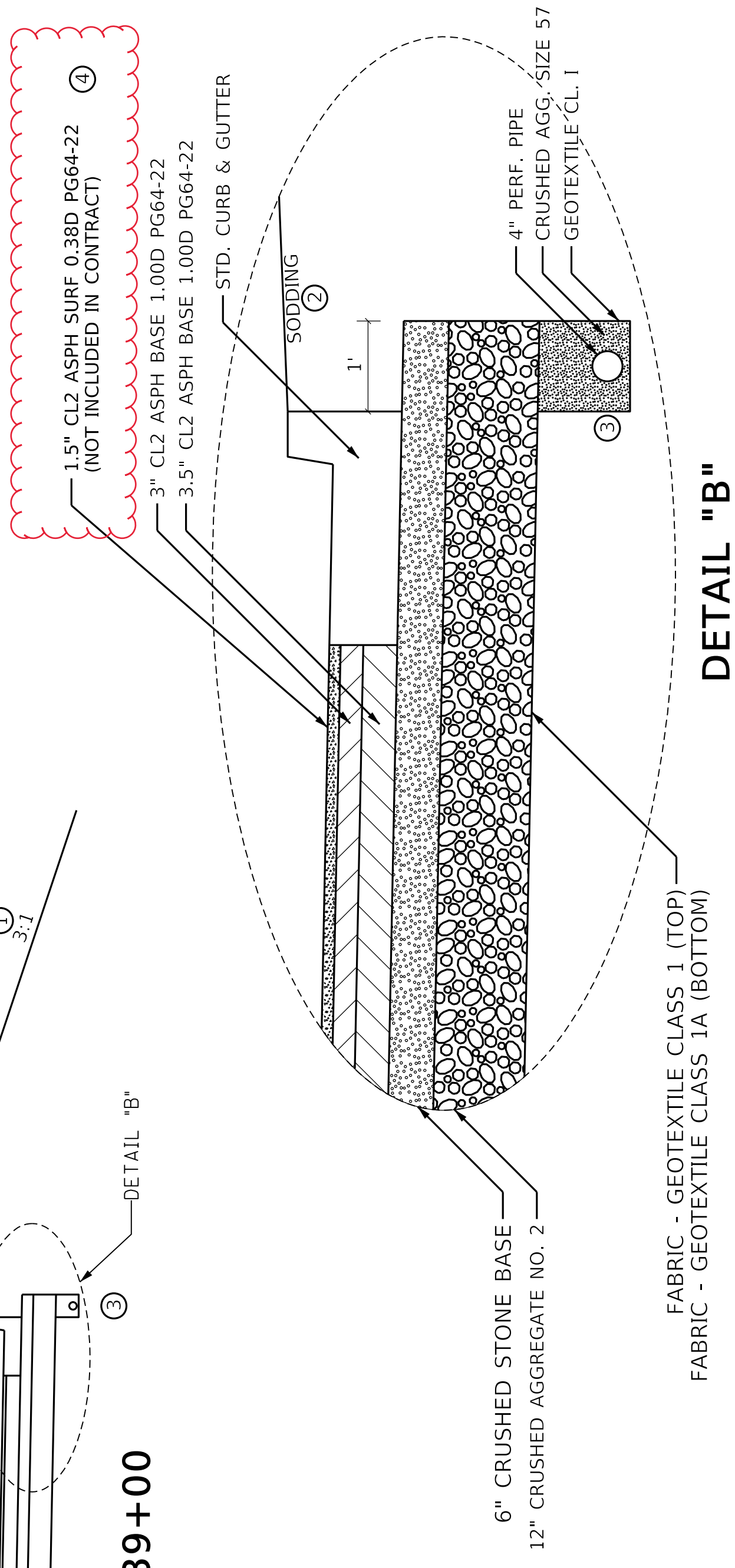
STA. 111+50 TO STA. 112+00



STA. 112+00 TO STA. 139+00

NEW ASPHALT PAVEMENT CONSTRUCTION

- APPROXIMATELY 12" OF SUBGRADE STABILIZATION [FABRIC - GEOTEXTILE CLASS 1A (BOTTOM)
12" CRUSHED AGGREGATE NO. 2
- APPROXIMATELY 12.5" OF BASE [FABRIC - GEOTEXTILE CLASS 1 (TOP)
6" CRUSHED STONE BASE
3.5" CL2 ASPH BASE 1.00D PG64-22
- APPROXIMATELY 1.5" OF SURFACE [1.5" CL2 ASPH SURF 0.38D PG64-22
(NOT INCLUDED IN THIS CONTRACT) ④



DETAIL "B"

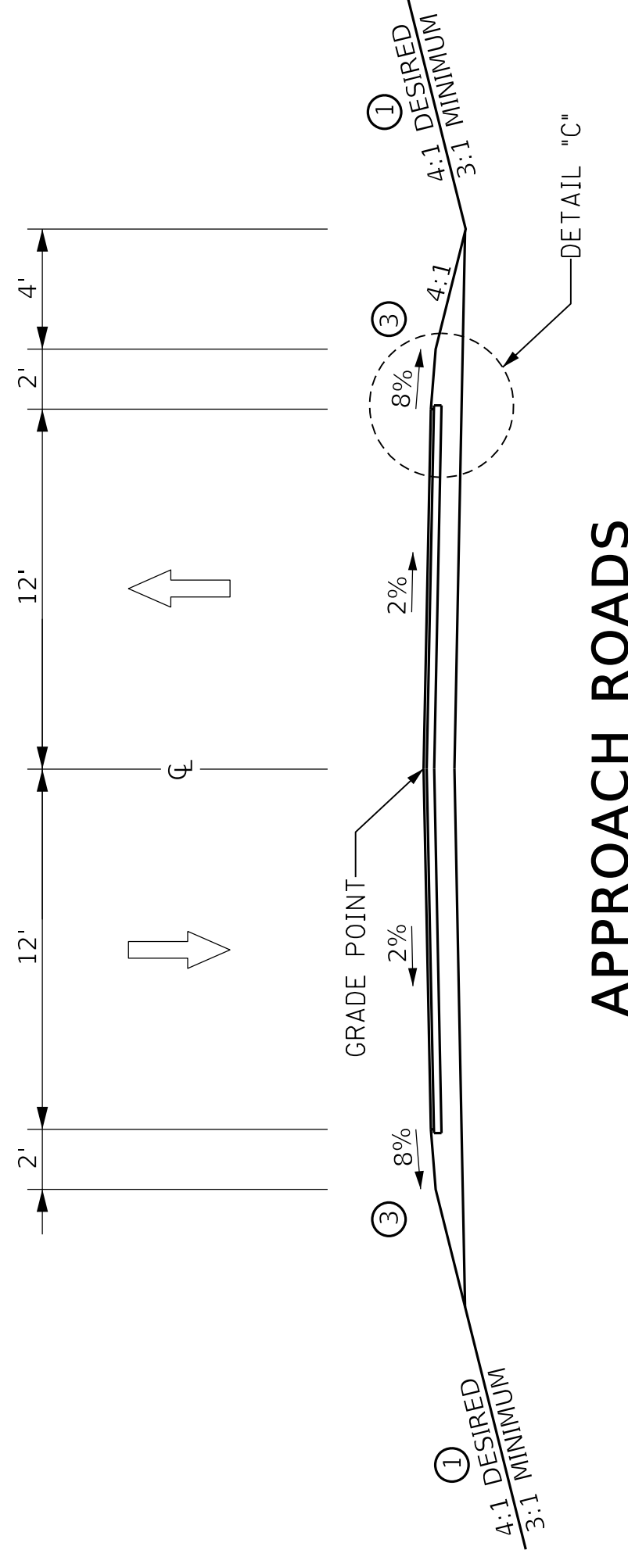
REVISED: FEBRUARY 9, 2024

TYPICAL SECTIONS

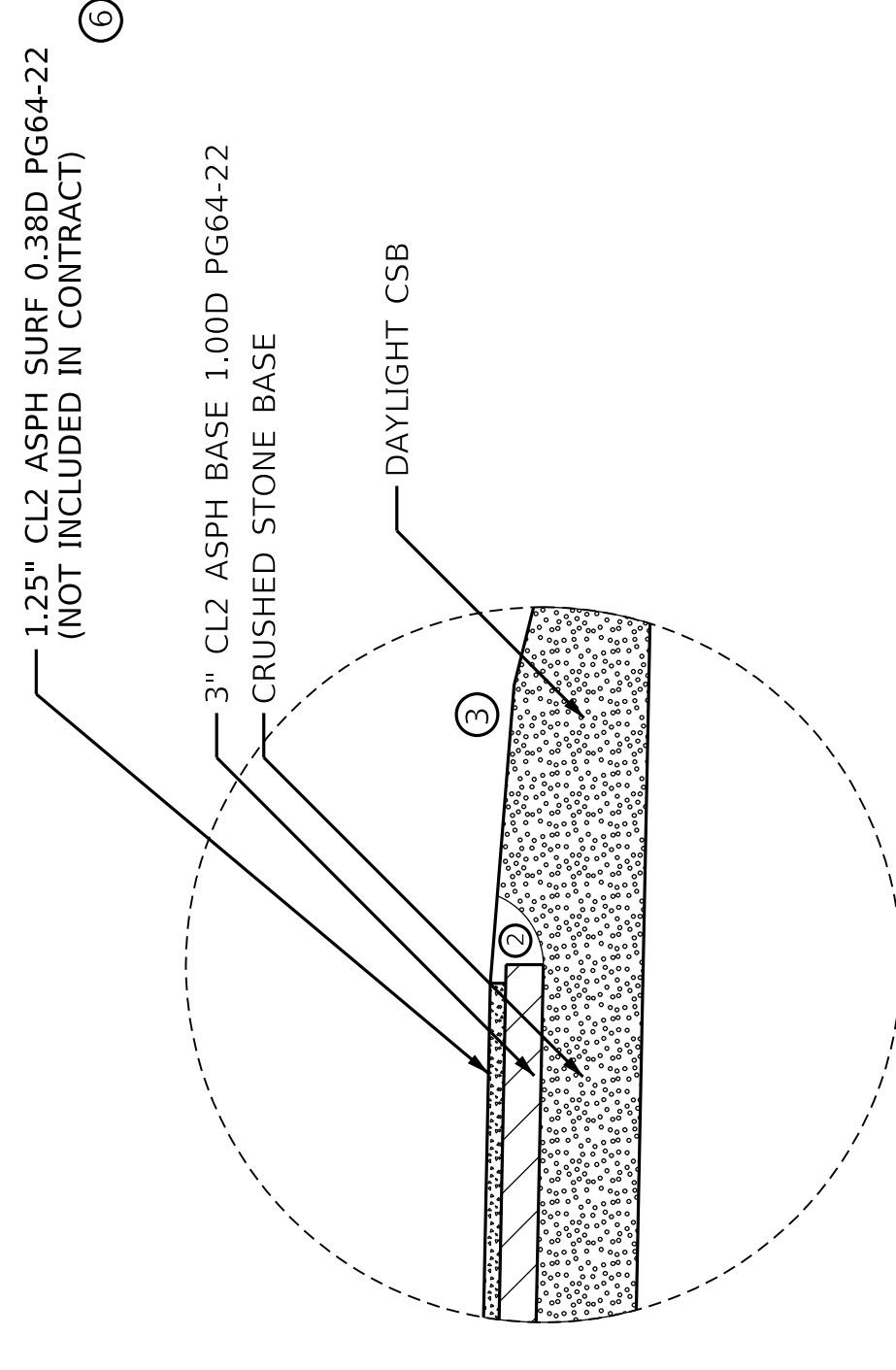
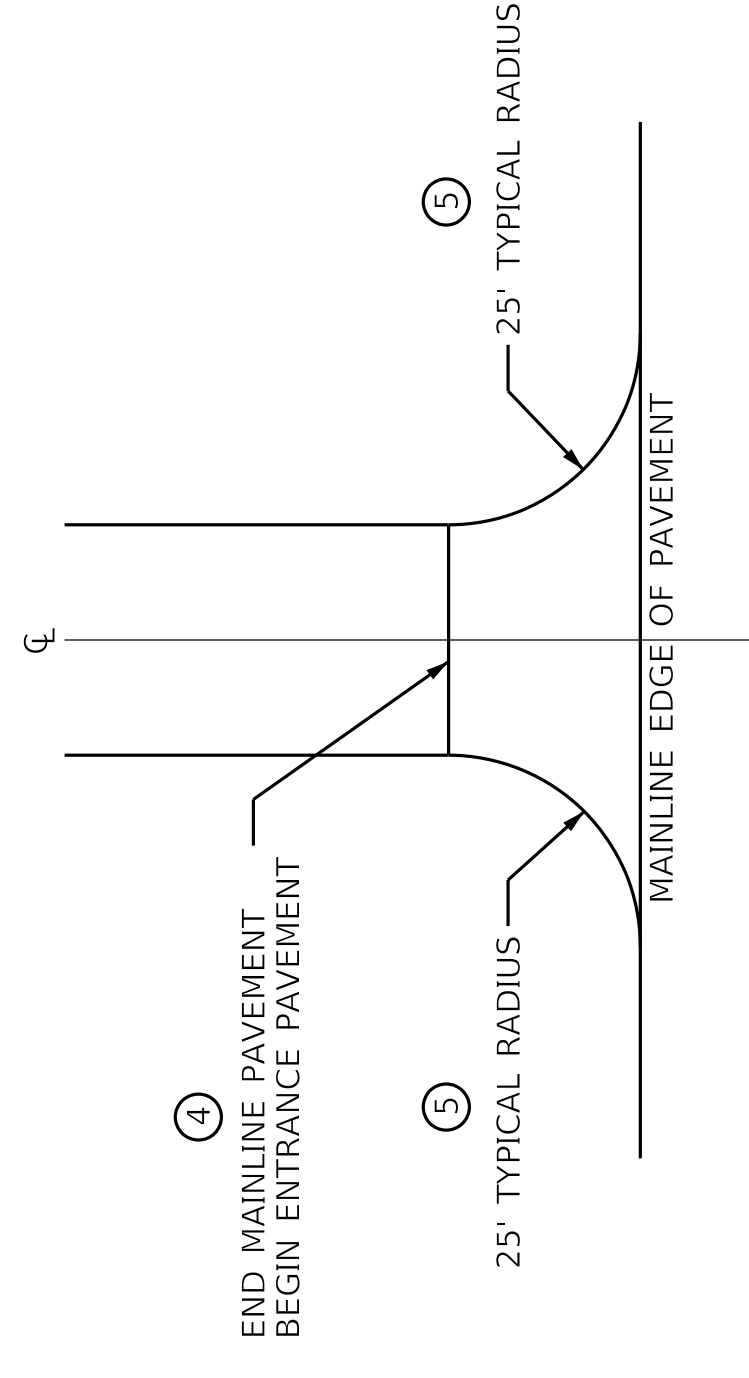
APPROACH ROADS & ENTRANCES

GENERAL NOTES

- ① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.
- ② STEP ALL ASPHALT LIFTS OUT A DISTANCE EQUAL TO THE THICKNESS OF THE LIFT ABOVE.
- ③ ASPHALT SEAL REQUIRED FROM THE EDGE OF THE ASPHALT SURFACE TO A POINT 2 FEET DOWN THE DITCH OR FILL SLOPE. 2 APPLICATIONS REQUIRED.
- ④ BEGIN ENTRANCE PAVEMENT AT THE BACK OF APPROACH RADIUS.
- ⑤ UNLESS NOTED ELSEWHERE IN THE PLANS, ALL ENTRANCES SHALL HAVE 25' RADIUS RETURNS.
- ⑥ THE ASPHALT SURFACE WILL NOT BE CONSTRUCTED WITH THIS CONTRACT. INSTALL ASPHALT WEDGING ADJACENT TO CURB INLETS ON UPSTREAM SIDE TO DIRECT RUNOFF TO GUTTERS DURING THE PERIOD OF TIME THAT FINAL SURFACE COURSE IS NOT INSTALLED.



APPROACH ROADS



④ DETAIL "C"

NEW ASPHALT APPROACH & ENTRANCE PAVEMENT CONSTRUCTION

APPROXIMATELY 11" OF BASE [8" CRUSHED STONE BASE (DAYLIGHTED)
3" CL2 ASPH BASE 1.00D PG64-22

APPROXIMATELY 1.25" OF SURFACE [1.25" CL2 ASPH SURF 0.38D PG64-22
(NOT INCLUDED IN THIS CONTRACT) ⑥

REVISED: FEBRUARY 9, 2024

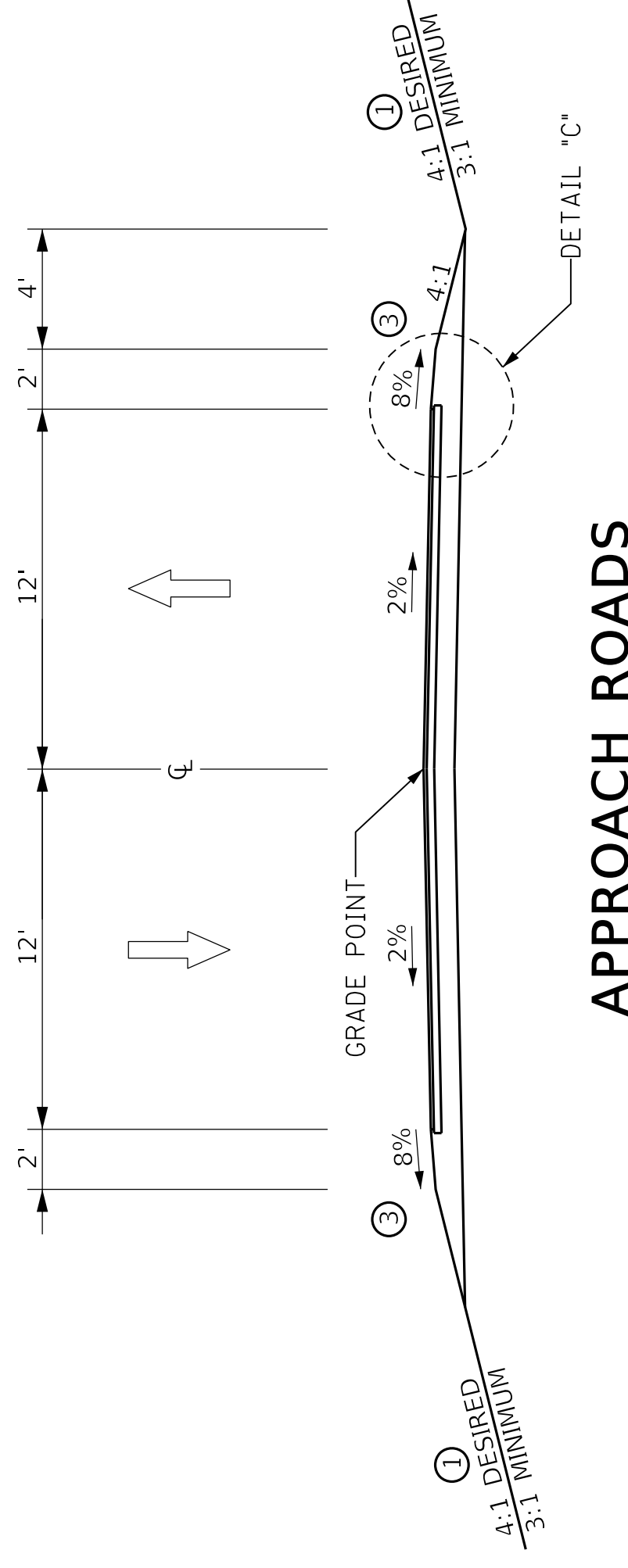
TYPICAL SECTIONS

APPROACH ROADS & ENTRANCES

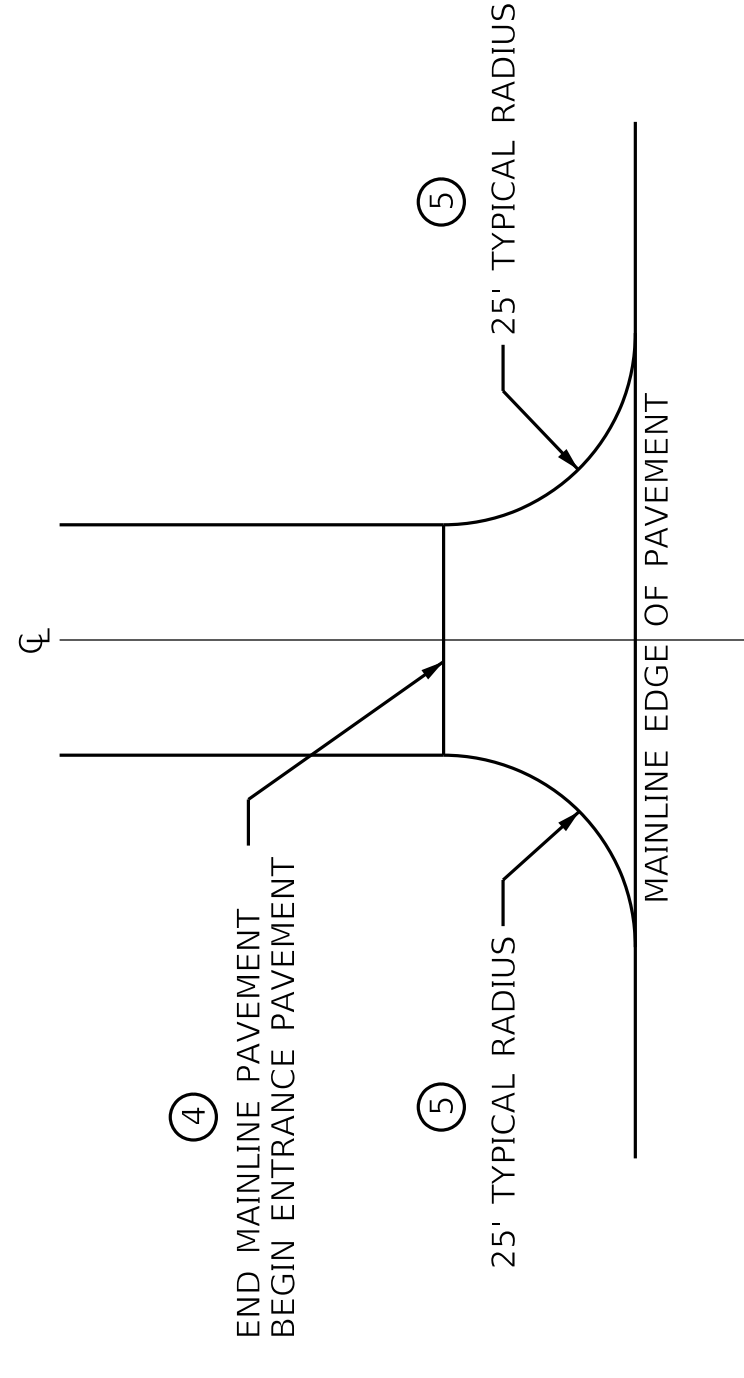
GENERAL NOTES

- ① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDER.
- ② STEP ALL ASPHALT LIFTS OUT A DISTANCE EQUAL TO THE THICKNESS OF THE LIFT ABOVE.
- ③ ASPHALT SEAL REQUIRED FROM THE EDGE OF THE ASPHALT SURFACE TO A POINT 2 FEET DOWN THE DITCH OR FILL SLOPE. 2 APPLICATIONS REQUIRED.
- ④ BEGIN ENTRANCE PAVEMENT AT THE BACK OF APPROACH RADIUS.
- ⑤ UNLESS NOTED ELSEWHERE IN THE PLANS, ALL ENTRANCES SHALL HAVE 25' RADIUS RETURNS.

⑥ THE ASPHALT SURFACE WILL NOT BE CONSTRUCTED WITH THIS CONTRACT. INSTALL ASPHALT WEDGING ADJACENT TO CURB INLETS ON UPSTREAM SIDE TO DIRECT RUNOFF TO GUTTERS DURING THE PERIOD OF TIME THAT FINAL SURFACE COURSE IS NOT INSTALLED.

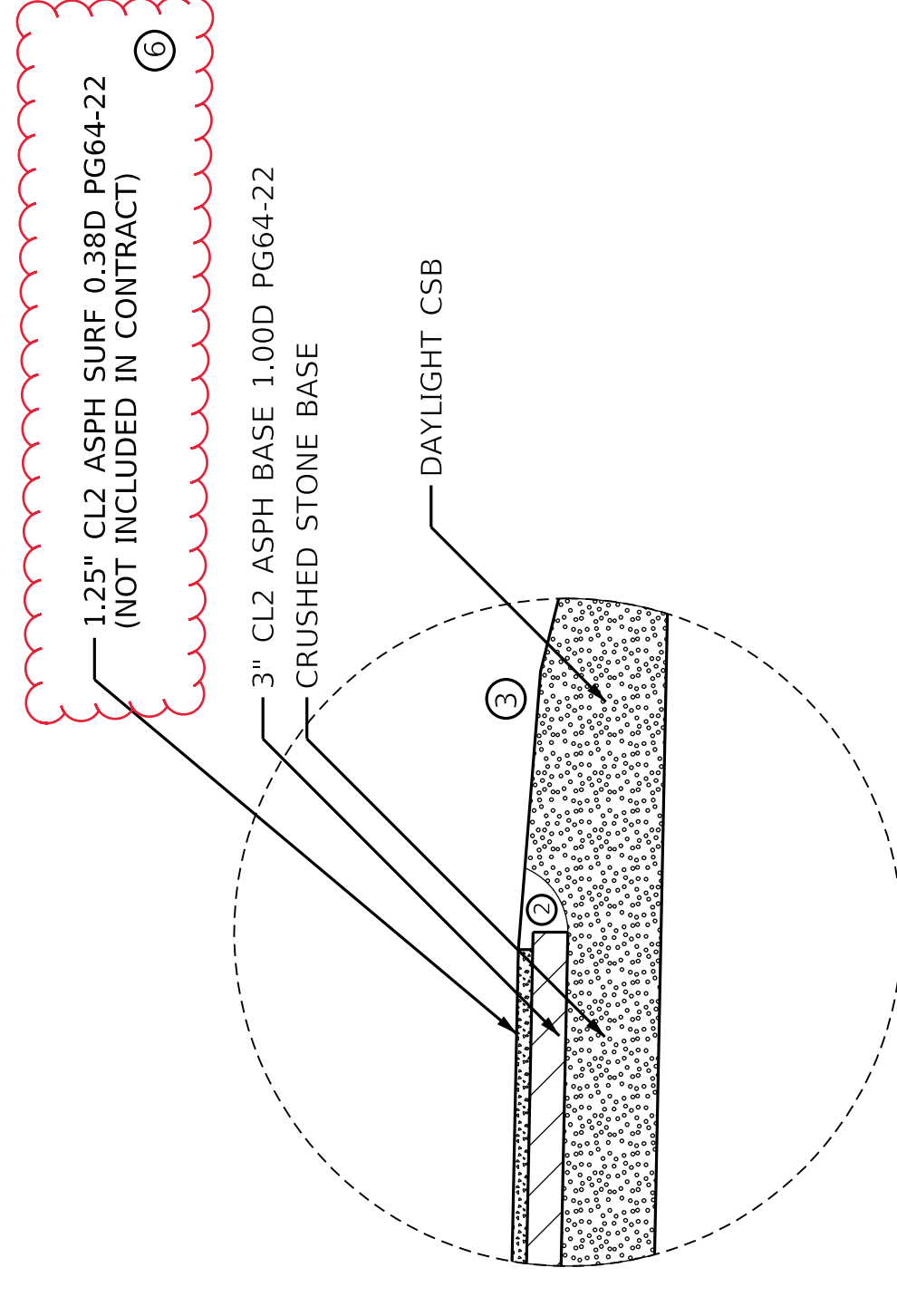


APPROACH ROADS



NEW ASPHALT APPROACH & ENTRANCE PAVEMENT CONSTRUCTION

- APPROXIMATELY 11" OF BASE — ③ 8" CRUSHED STONE BASE (DAYLIGHTED)
④ 3" CL2 ASPH BASE 1.00D PG64-22
- APPROXIMATELY 1.25" OF SURFACE — ⑤ 1.25" CL2 ASPH SURF 0.38D PG64-22 (NOT INCLUDED IN THIS CONTRACT)



REVISED: FEBRUARY 9, 2024

GENERAL SUMMARY

Table with columns: ITEM, DESCRIPTION, UNIT, CHESTNUT RIDGE RD, TOTAL PROJECT. Contains 100 rows of itemized work including aggregate, curb, ditches, embankments, fences, signs, etc.

PAVING SUMMARY

Table with columns: ITEM CODE, ITEM, UNIT, CHESTNUT RIDGE RD, APPROACH ROADS, TOTAL PROJECT. Lists paving materials like crushed stone base, seal aggregate, and fabric.

PAVING AREAS

Table with columns: ITEM, CHESTNUT RIDGE RD, APPROACH ROADS, S Q U A R E Y A R D S, TOTAL PROJECT. Summarizes paving areas by item.

NOTES

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
② ESTIMATED AT 0.84 LBS/SQYD
③ FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY (50 MGAL/MILE)
...
⑫ 5 TONS ADDED FOR CURB WEDGING

PROJECT EARTHWORKS TOTAL

Summary table for earthworks: EXCAVATION COM. 10,408 C.Y., EMB. BEN. 0 C.Y., SURF. DT. 0 C.Y., TOTAL EXCAVATION 10,408 C.Y., EMBANKMENT 18,668 C.Y., REFILL 412 C.Y., TOTAL EMBANKMENT 19,080 C.Y.

SHRINKAGE AND SWELL ARE THE RESPONSIBILITY OF THE CONTRACTOR.

REVISED: FEBRUARY 9, 2024

GENERAL SUMMARY

ITEM	DESCRIPTION	UNIT	CHESTNUT RIDGE RD	TOTAL PROJECT
78	CRUSHED AGGREGATE SIZE NO.2 (9) (10)	TON	8,994	8,994
1015	INSPECT AND CERTIFY EDGE DRAIN SYSTEM	LS	1	1
1810	STANDARD CURB AND GUTTER	LF	5,333	5,333
2014	BARRICADE TYPE III	EACH	2	2
2159	TEMP DITCH	LF	1,400	1,400
2160	CLEAN TEMP DITCH	LF	700	700
2223	GRANULAR EMBANKMENT	CUYD	7,050	7,050
2230	EMBANKMENT IN PLACE	CUYD	19,080	19,080
2242	WATER (FOR DUST CONTROL) (3)	MGAL	27	27
2273	FENCE - 4FT CHAIN LINK	LF	100	100
2351	GUARDRAIL - STEEL W BEAM S FACE	LF	37.5	37.5
2360	GUARDRAIL TERMINAL SECTION NO. 1	EACH	2	2
2432	WITNESS POST (TYPE 3)	EACH	14	14
2484	CHANNEL LINING CLASS III	TON	183	183
2545	CLEARING AND GRUBBING (4)	LS	1	1
2562	TEMPORARY SIGNS	SOFT	150	150
2568	MOBILIZATION	LS	1	1
2569	DEMOBILIZATION	LS	1	1
2585	EDGE KEY	LF	90	90
2602	FABRIC - GEOTEXTILE CLASS 1 (9)	SOYD	13,028	13,028
2604	FABRIC - GEOTEXTILE CLASS 1A (9)	SOYD	13,650	13,650
2607	FABRIC - GEOTEXTILE CLASS 2 FOR PIPE (10)	SOYD	9,052	9,052
2650	MAINTAIN AND CONTROL TRAFFIC	LS	1	1
2701	TEMP SILT FENCE	LF	1,400	1,400
2703	SILT TRAP TYPE A	EACH	10	10
2704	SILT TRAP TYPE B	EACH	10	10
2705	SILT TRAP TYPE C	EACH	10	10
2706	CLEAN SILT TRAP TYPE A	EACH	10	10
2707	CLEAN SILT TRAP TYPE B	EACH	10	10
2708	CLEAN SILT TRAP TYPE C	EACH	10	10
2720	SIDEWALK - 4 IN CONCRETE	SOYD	1,507	1,507
2726	STAKING	LS	1	1
5950	EROSION CONTROL BLANKET	SOYD	3,970	3,970
5952	TEMP MULCH	SOYD	32,817	32,817
5953	TEMP SEEDING AND PROTECTION	SOYD	24,490	24,490
5963	INITIAL FERTILIZER	TON	2	2
5964	MAINTENANCE FERTILIZER	TON	2.5	2.5
5985	SEEDING AND PROTECTION	SOYD	48,981	48,981
5990	SODDING	SOYD	3,112	3,112
5992	AGRICULTURAL LIMESTONE	TON	30.4	30.4
6406	SBM ALUM SHEET SIGNS .080 IN	SF	86	86
6410	STEEL POST TYPE 1	LF	158	158
6510	PAVE STRIPING - TEMP PAINT - 4 IN	LF	13,025	13,025
10020NS	FUEL ADJUSTMENT	DOLLAR	16,283	16,283
10030NS	ASPHALT ADJUSTMENT	DOLLAR	19,865	19,865
20550ND	SAWCUT PAVEMENT	LF	201	201
21289ED	LONGITUDINAL EDGE KEY	LF	159	159
23158E5505	DETECTABLE WARNINGS	SOFT	91	91
24540	RIGHT OF WAY MONUMENT TYPE 3	EACH	14	14
24631EC	BARCODE SIGN INVENTORY	EACH	14	14
24814EC	PIPELINE INSPECTION	LF	1,684	1,684
14014	W ENCASUREMENT STEEL OPEN CUT RANGE 3	LF	210	210
14015	W ENCASUREMENT STEEL OPEN CUT RANGE 4	LF	115	115
14144	W LINE MARKER	EACH	6	6
23010EN	PAVE MARK - TEMP PAINT STOP BAR - 24 IN	LF	95	95

PAVING SUMMARY

ITEM CODE	ITEM	UNIT	CHESTNUT RIDGE RD	APPROACH ROADS	TOTAL PROJECT
3	CRUSHED STONE BASE	TON	4,495	768	5,263
78	CRUSHED AGGREGATE SIZE NO.2	TON	8,989		8,989
100	ASPHALT SEAL AGGREGATE	TON		8	8
103	ASPHALT SEAL COAT	TON		1	1
190	LEVELING & WEDGING PG 64-22	TON	19		19
212	CL2 ASPH BASE 1.00D PG 64-22	TON	3,869	199	4,068
2602	FABRIC - GEOTEXTILE CLASS 1	SOYD	13,028		13,028
2604	FABRIC - GEOTEXTILE CLASS 1A	SOYD	13,650		13,650
24970EC	ASPHALT MATERIAL FOR TACK NON-TRACKING	TON	14.6	1.0	15.6

PAVING AREAS

ITEM	CHESTNUT RIDGE RD	APPROACH ROADS	S	Q	U	A	R	E	Y	A	R	D	S	TOTAL PROJECT
3" CL2 ASPH BASE 1.00D PG 64-22	10,832	1,204												12,036
3.5" CL2 ASPH BASE 1.00D PG 64-22	10,814													10,814
6" CRUSHED STONE BASE	13,028													13,028
12" CRUSHED AGGREGATE SIZE NO.2	13,028													13,028
LEVELING & WEDGING PG 64-22 (1)	501													501
8" CRUSHED STONE BASE		1,229												1,229
CRUSHED STONE BASE WEDGE (5)		98												98
ASPHALT MATERIAL FOR TACK NON-TRACKING	34,674	2,433												37,107
FABRIC-GEOTEXTILE CLASS 1	13,650													13,650
FABRIC-GEOTEXTILE CLASS 1A	13,028													13,028
ASPHALT SEAL AGGREGATE (8)		796												796
ASPHALT SEAL COAT (8)		796												796

NOTES

ALL ASPHALT MIXTURES SHALL BE ESTIMATED AT 110 LBS. PER SQ. YD. PER INCH OF DEPTH, UNLESS NOTED OTHERWISE.

- ① ESTIMATED AT 115 LBS. PER SQ. YD. PER INCH OF DEPTH.
- ② ESTIMATED AT 0.84 LBS/SQYD
- ③ FOR CONTROLLING DUST CAUSED BY MAINTAINING TRAFFIC ONLY (50 MGAL/MILE)
- ④ APPROXIMATELY 10 ACRES
- ⑤ QUANTITY SHOWN IS IN CUBIC YARDS
- ⑥ ESTIMATED AT 20 LBS/SQYD (SIZE 8 OR 9M)
- ⑦ ESTIMATED AT 2.4 LBS/SQYD
- ⑧ TWO APPLICATIONS
- ⑨ QUANTITY CARRIED OVER TO GENERAL SUMMARY
- ⑩ QUANTITY CARRIED FORWARD FROM PIPE DRAINAGE SUMMARY SHEET
- ⑪ ASSUMED 1/2 INCH DEPTH FOR QUANTITY ESTIMATING PURPOSES
- ⑫ 5 TONS ADDED FOR CURB WEDGING

PROJECT EARTHWORKS TOTAL

EXCAVATION	10,408	C.Y.
COM.	0	C.Y.
EMB. BEN.	0	C.Y.
SURF. DT.	0	C.Y.
TOTAL EXCAVATION	10,408	C.Y.
EMBANKMENT	18,668	C.Y.
REFILL	412	C.Y.
TOTAL EMBANKMENT	19,080	C.Y.

SHRINKAGE AND SWELL ARE THE RESPONSIBILITY OF THE CONTRACTOR.

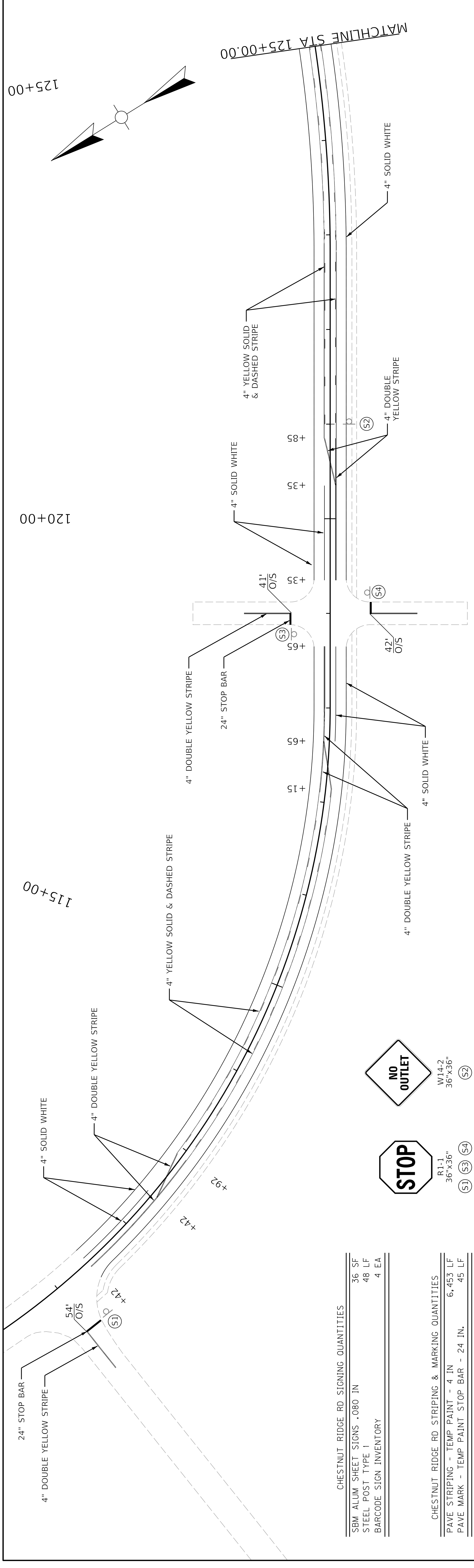
REVISED: FEBRUARY 9, 2024

ITEM NO.	12-162.00
SHEET NO.	R2C

CHESTNUT RIDGE EXTENSION SUMMARY SHEET

COUNTY OF

KNOTT

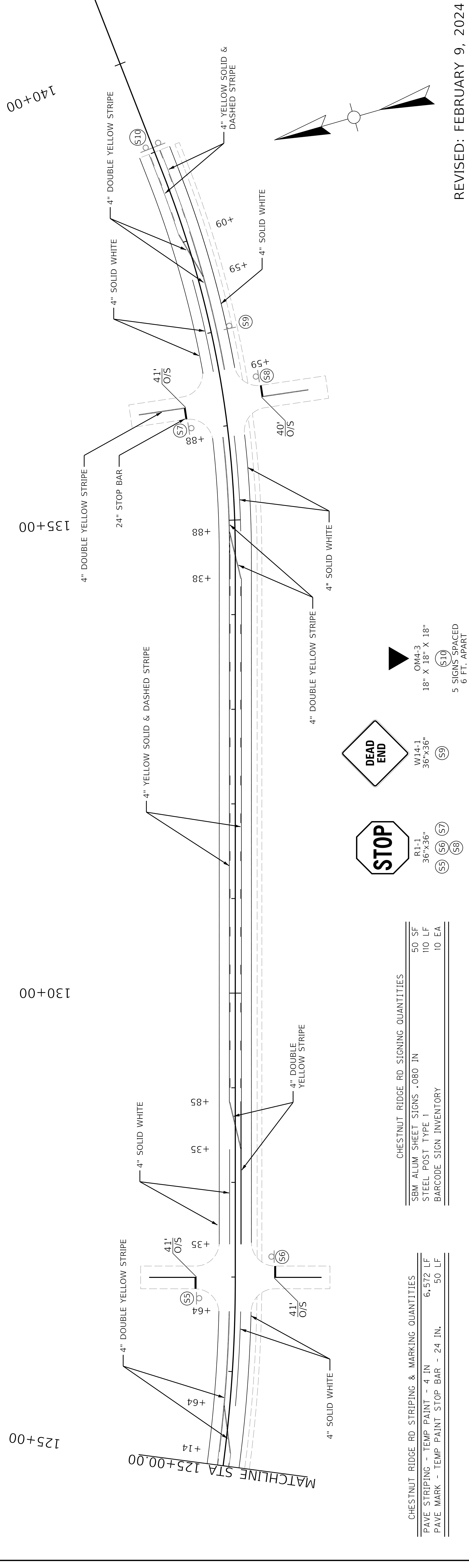


CHESTNUT RIDGE RD SIGNING QUANTITIES

SBM ALUM SHEET SIGNS .080 IN	36 SF
STEEL POST TYPE 1	48 LF
BARCODE SIGN INVENTORY	4 EA

CHESTNUT RIDGE RD STRIPING & MARKING QUANTITIES

PAVE STRIPING - TEMP PAINT - 4 IN	6,453 LF
PAVE MARK - TEMP PAINT STOP BAR - 24 IN.	45 LF

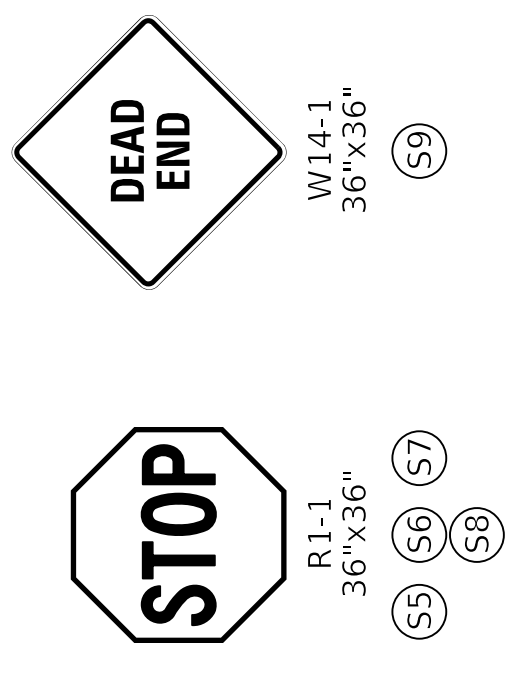


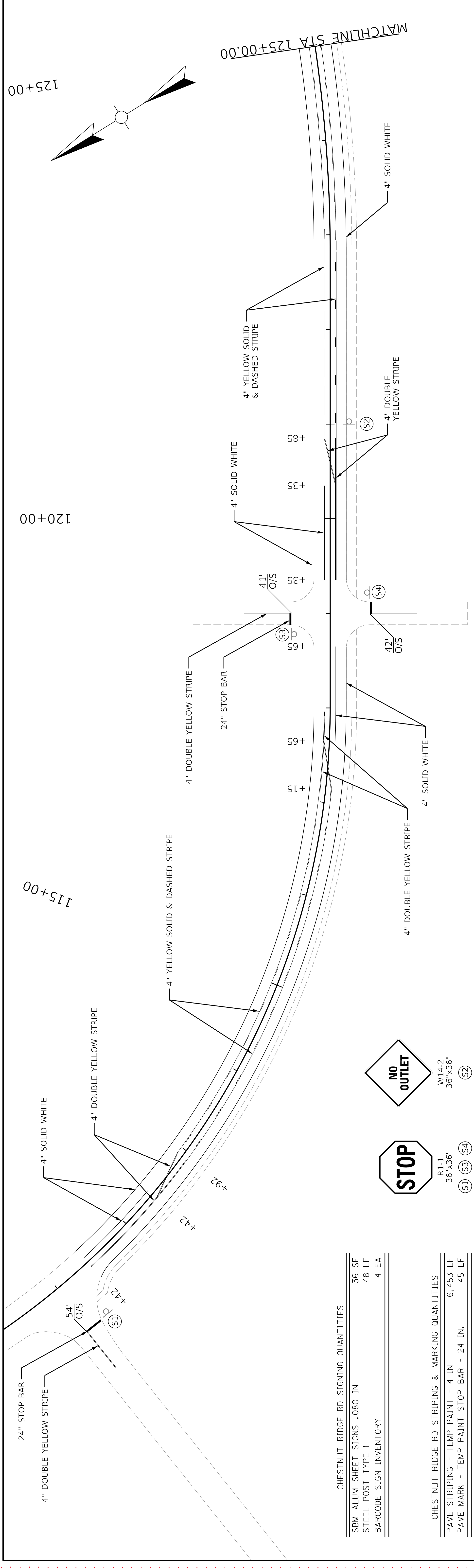
CHESTNUT RIDGE RD STRIPING & MARKING QUANTITIES

PAVE STRIPING - TEMP PAINT - 4 IN	6,572 LF
PAVE MARK - TEMP PAINT STOP BAR - 24 IN.	50 LF

CHESTNUT RIDGE RD SIGNING QUANTITIES

SBM ALUM SHEET SIGNS .080 IN	50 SF
STEEL POST TYPE 1	110 LF
BARCODE SIGN INVENTORY	10 EA





CHESTNUT RIDGE RD SIGNING QUANTITIES

SBM ALUM SHEET SIGNS .080 IN	36 SF
STEEL POST TYPE 1	48 LF
BARCODE SIGN INVENTORY	4 EA

CHESTNUT RIDGE RD STRIPING & MARKING QUANTITIES

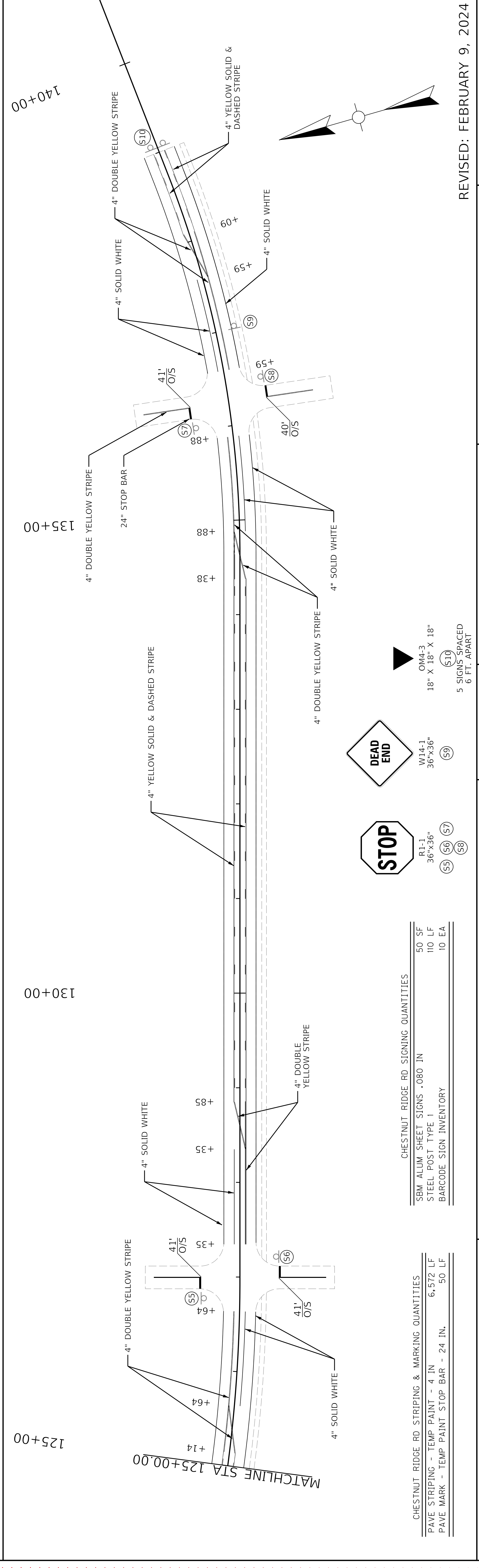
PAVE STRIPING - TEMP PAINT - 4 IN	6,453 LF
PAVE MARK - TEMP PAINT STOP BAR - 24 IN.	45 LF

CHESTNUT RIDGE RD SIGNING QUANTITIES

SBM ALUM SHEET SIGNS .080 IN	50 SF
STEEL POST TYPE 1	110 LF
BARCODE SIGN INVENTORY	10 EA

CHESTNUT RIDGE RD STRIPING & MARKING QUANTITIES

PAVE STRIPING - TEMP PAINT - 4 IN	6,572 LF
PAVE MARK - TEMP PAINT STOP BAR - 24 IN.	50 LF



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY

STRIPING & SIGNING PLAN

FILE NAME: J:\12304 - CHESTNUT RIDGE ROAD\60 - PLAN SHEETS\10 - ROADWAY\50 - DETAIL SHEETS\20 - STRIPING\STRIPING PLAN.DGN

USER: tcambron

REVISIONS:

NO. 1	DATE	DESCRIPTION
1	FEBRUARY 9, 2024	REVISED: FEBRUARY 9, 2024

ITEM NO. 12-162.00
COUNTY OF KNOTT

SHEET NO. R12

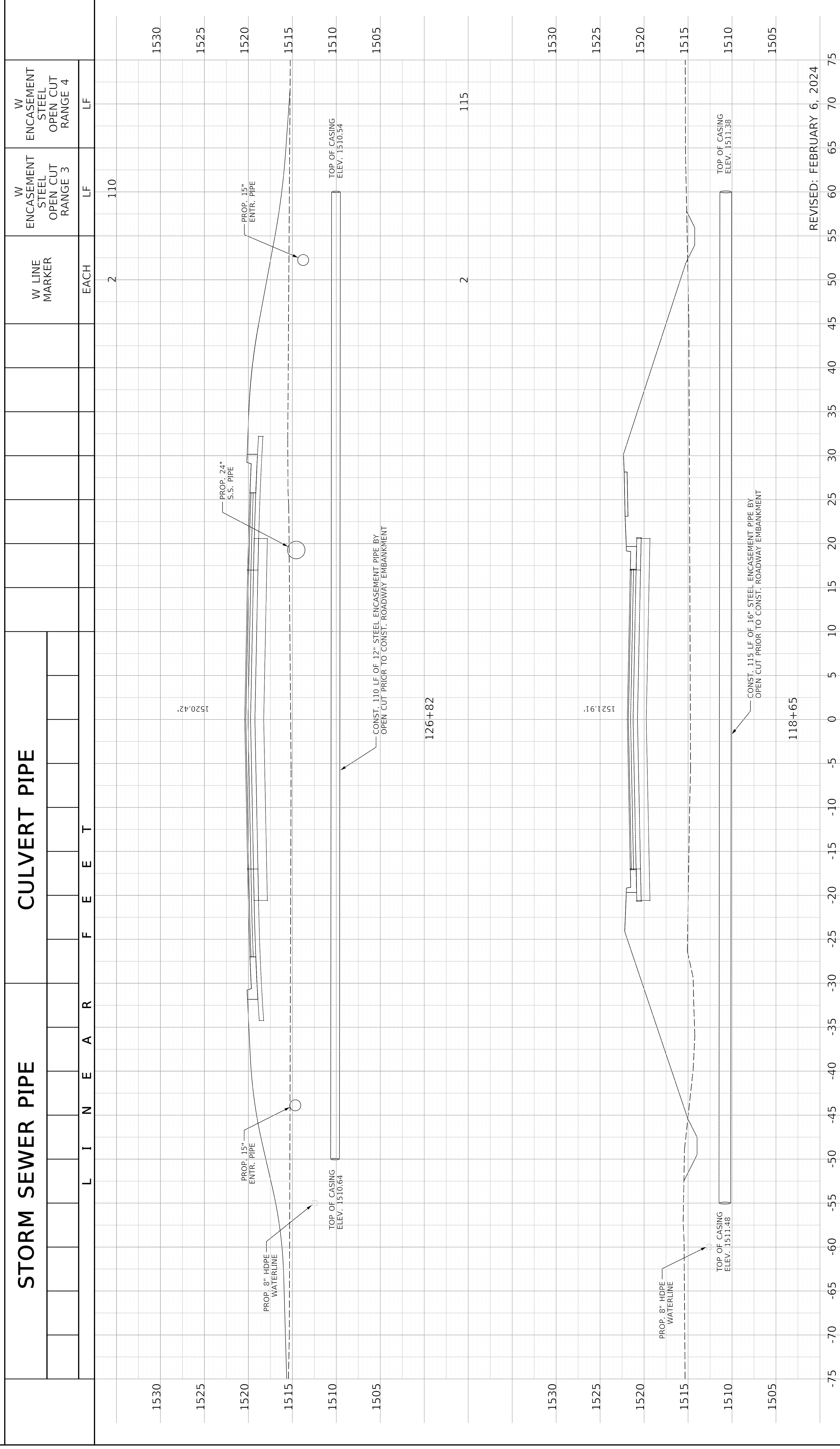
SHEET 1 OF 1

HORIZONTAL SCALE: 1"=50'
SCALE: 1"=50'

VERTICAL SCALE: 1"=50'
SCALE: 1"=50'

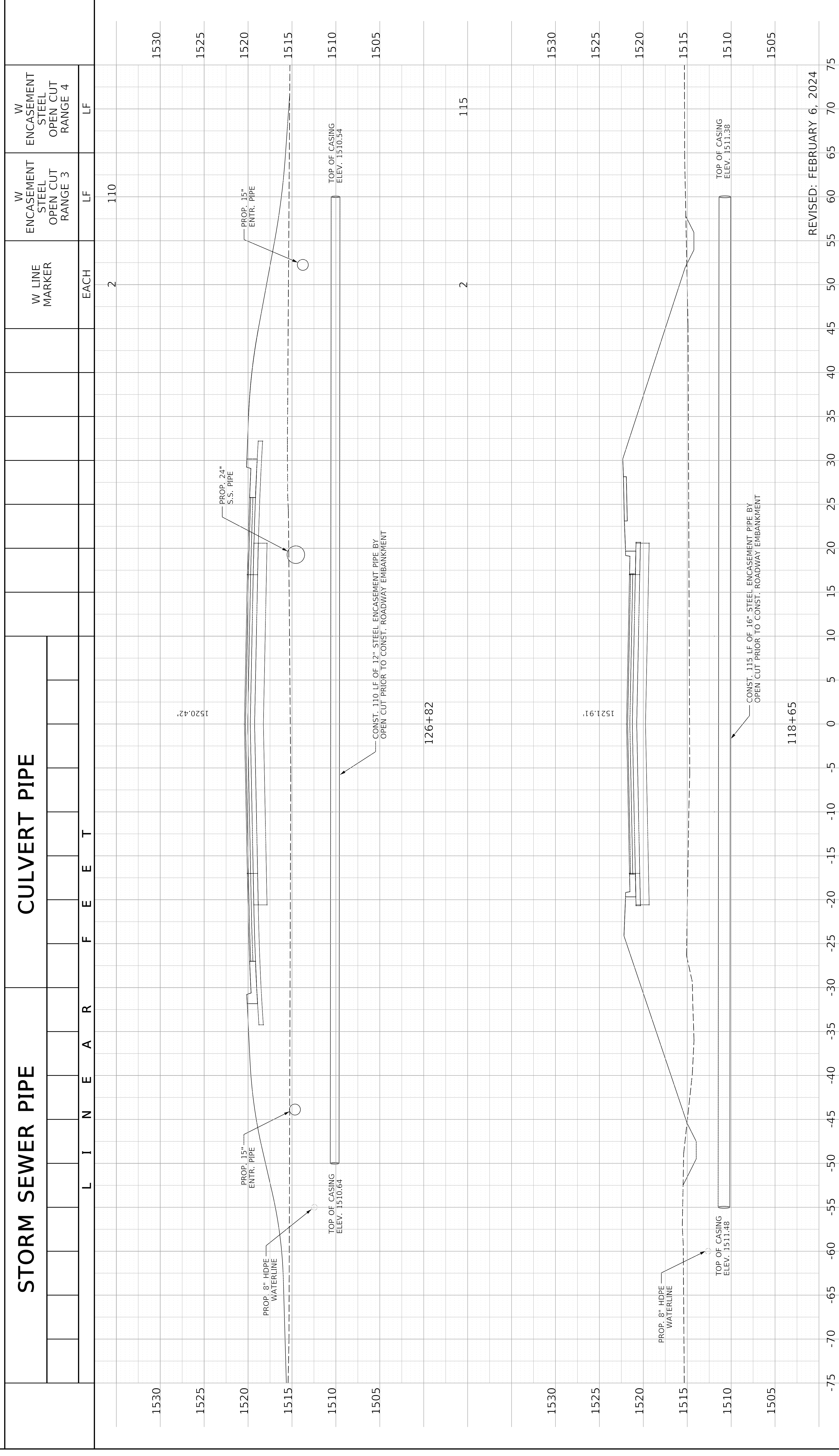
200'
100'
50'
0'

UTILITY SHEET 1 OF 2

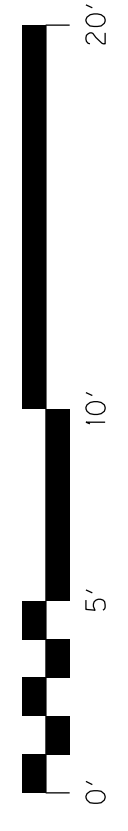


STORM SEWER PIPE	CULVERT PIPE										W LINE MARKER	ENCASUREMENT STEEL OPEN CUT RANGE 3	ENCASUREMENT STEEL OPEN CUT RANGE 4
L I N E A R F E E T											EACH	LF	LF
1530											2	110	
1525													
1520													
1515													
1510													
1505													
1530													
1525													
1520													
1515													
1510													
1505													
-75													
-70													
-65													
-60													
-55													
-50													
-45													
-40													
-35													
-30													
-25													
-20													
-15													
-10													
-5													
0													
5													
10													
15													
20													
25													
30													
35													
40													
45													
50													
55													
60													
65													
70													
75													

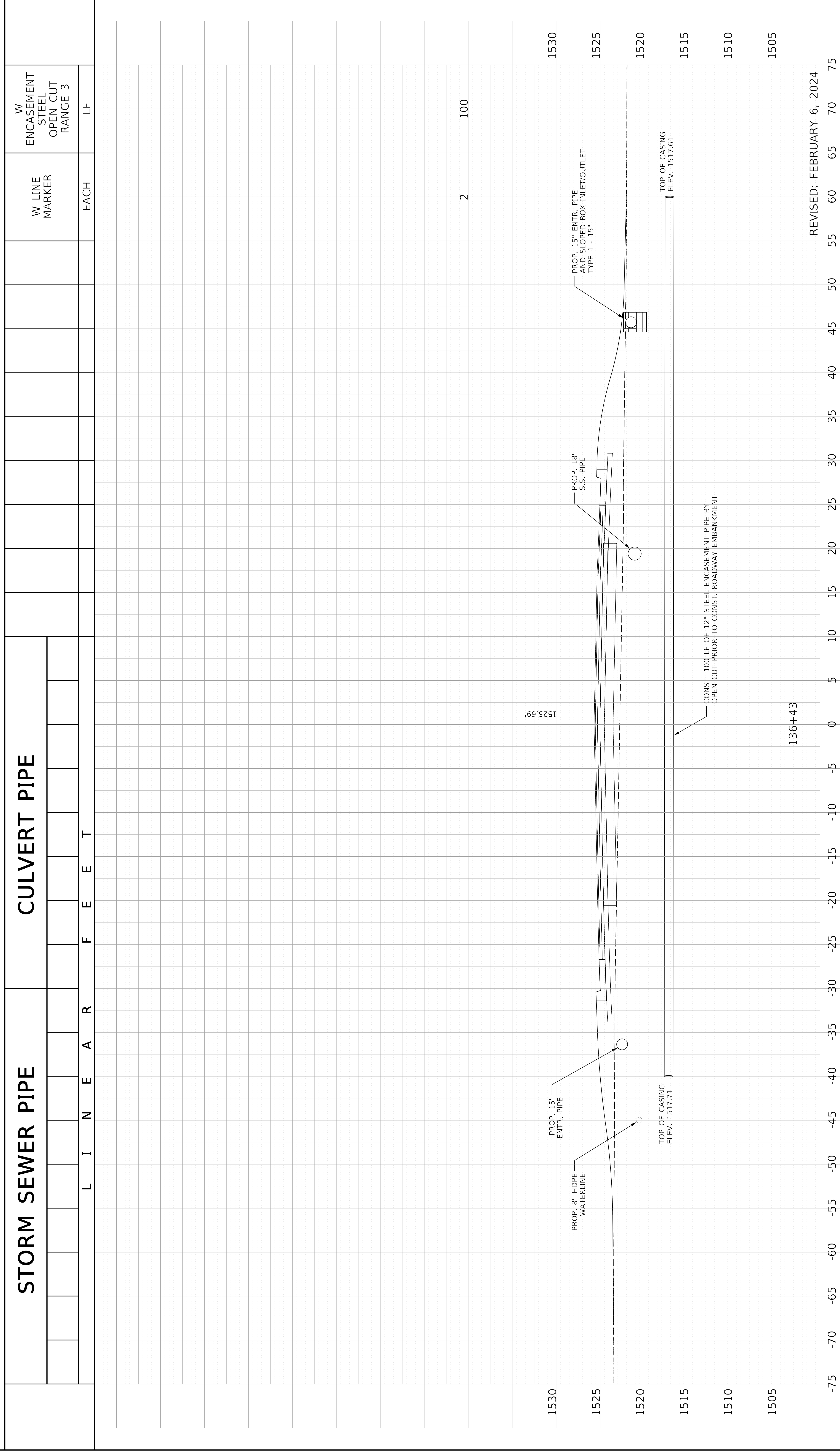
UTILITY SHEET 1 OF 2



REVISED: FEBRUARY 6, 2024



UTILITY SHEET 2 OF 2

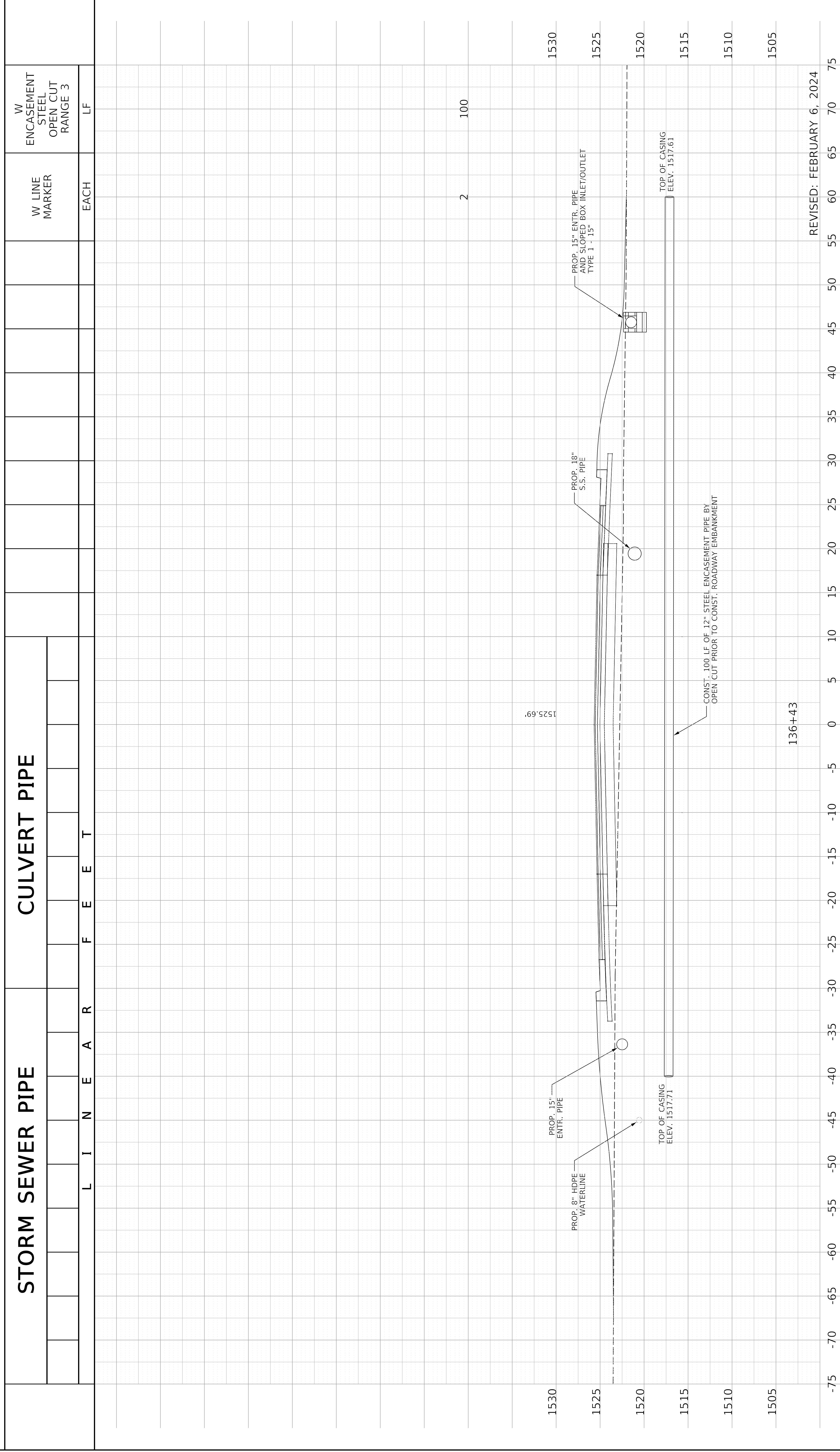


REVISED: FEBRUARY 6, 2024

 COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	CHESTNUT RIDGE ROAD EXTENSION UTILITY SHEET	STA. 135+43	COUNTY OF KNOTT
HORIZONTAL SCALE: 1" = 5' SCALE: 1" = 5'		ITEM NO. 12-162.00 SHEET NO. R32	

FILE NAME: J:\12304 - CHESTNUT RIDGE ROAD\50 - PLAN SHEETS\10 - PIPE SECTIONS\GR_SECTION1_PIPE_SHEETS.DGN
 USER: wright

UTILITY SHEET 2 OF 2



STORM SEWER PIPE	CULVERT PIPE										W LINE MARKER	ENCASEMENT STEEL OPEN CUT RANGE 3
L I N E A R F E E T											EACH	LF
											2	100

COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY
TRANSPORTATION

USFS: wright

CHESTNUT RIDGE ROAD EXTENSION UTILITY SHEET

STA. 135+43

REVISION: FEBRUARY 6, 2024

ITEM NO. 12-162.00
COUNTY OF KNOTT

SHEET NO. R32

HORIZONTAL SCALE: 1" = 5'

20'

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-U-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

ORIGIN OF LEVELS

ELEVATIONS WERE DERIVED FROM GPS METHODS AND ARE ADJUSTED TO THE NAVD88 VERTICAL DATUM. GEOID MODEL USED WAS GEOID 18.

UTILITY OWNERS

- AMERICAN ELECTRIC POWER
3249 N. MAYO TRAIL
PIKEVILLE, KY 41501
- KNOTT COUNTY WATER AND SEWER DISTRICT
7777 BIG BRANCH ROAD
VICCO, KY 41775
- THACKER-GRIGSBY TELEPHONE & TV SERVICES
60 COMMUNICATION LANE
HINDMAN, KY 41822

FOR UTILITY INFORMATION ONLY

THE LOCATION OF UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY REVIEWING RECORD DRAWINGS. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. IT WILL BE THE ROAD CONTRACTORS RESPONSIBILITY TO LOCATE UTILITIES BEFORE EXCAVATING BY CALLING THE VARIOUS UTILITY OWNERS AND BY EXAMINING ANY SUPPLEMENTAL INFORMATION PROVIDED BY THE UTILITY OWNERS AND/OR UTILITY OWNER. THE ROAD CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES BY HAND DIGGING TO EXPOSE UTILITIES BEFORE HE EXCAVATES IN THE AREA OF A UTILITY. THE COST FOR REPAIR AND ANY OTHER ASSOCIATED COSTS FOR ANY DAMAGE TO UTILITIES CAUSED BY THE ROAD CONTRACTORS OPERATIONS SHALL BE BORNE BY THE ROAD CONTRACTOR.

THE CONTRACTOR IS ADVISED TO CONTACT THE B.U.D. ONE-CALL SYSTEM; HOWEVER, THE CONTRACTOR SHOULD BE AWARE THAT THE OWNERS OF THE UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE B.U.D. ONE-CALL SYSTEM. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE PROJECT AREA.

THE LOCATION OF THE PROPOSED UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY THEIR ENGINEER. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. THE CONTRACTOR IS ADVISED THAT THE EXACT SCHEDULE FOR UTILITY CONSTRUCTION IS CURRENTLY UNKNOWN AND THAT COORDINATION WILL BE REQUIRED BETWEEN THE ROAD CONTRACTOR AND THE UTILITY CONTRACTORS.

CONST. STD. CURB & GUTTER LT. OF C	
STATION TO STATION	LF
111+51 TO 118+88	715
119+12 TO 120+00	702

STA. 111+00 CONSTRUCT 90 LF OF EDGE KEY

STA. 112+00 SAWCUT 42 LF OF ROADWAY. THE EXISTING ROADWAY FROM STA. 112+00 TO STA. 113+45 SHALL BE REMOVED. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM EMBANKMENT IN PLACE.

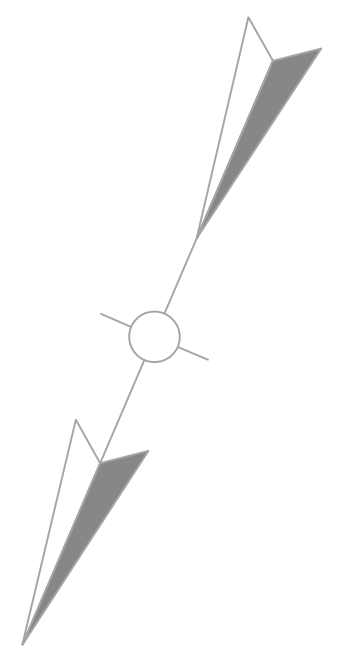
STA. 111+51 TO STA. 112+00 LT. CONSTRUCT 49 LF OF SAWCUT PAVEMENT AND LONGITUDINAL EDGE KEY

ENTRANCE CONSTRUCTION LT. OF C					
STATION	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)	GRAVEL (SY)	ENTRANCE PIPE SIZE (LF)
119+00	24	275	---	---	15"

CONST. SODDING LT. OF C

STATION TO STATION	
111+51 TO 118+88	SY
119+12 TO 120+00	374
119+12 TO 120+00	51

DITCH CONSTRUCTION LT. OF C				
STATION TO STATION	DESCRIPTION	TYPE	DEPTH	QUANTITY
111+39 TO 113+00	SPEC. 2' F.B.	ECB	2'	196 SY
113+00 TO 118+66	SPEC. 2' F.B.	ECB	1.5'	548 SY
119+33 TO 120+00	SPEC. 2' F.B.	ECB	1'	49 SY

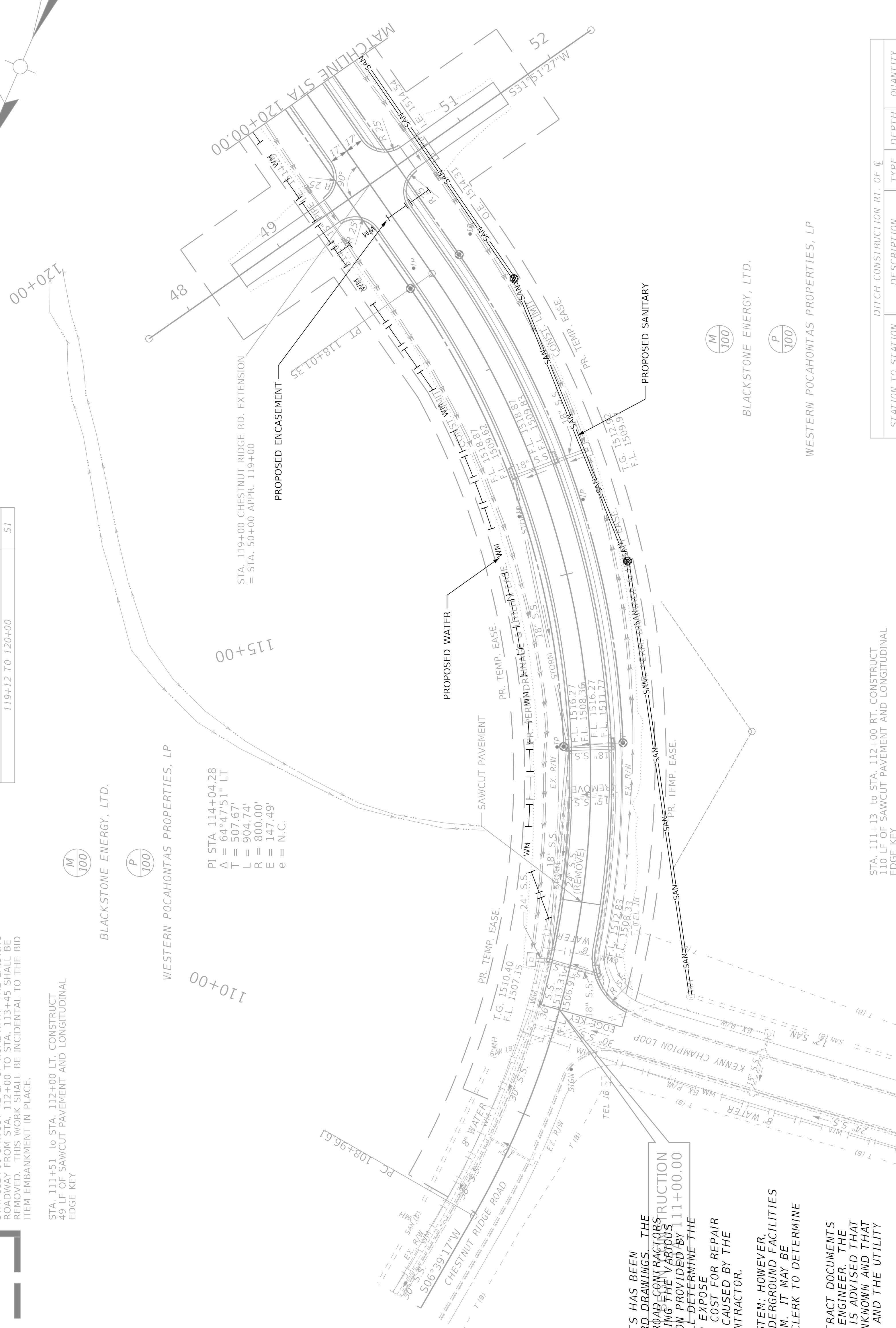


BLACKSTONE ENERGY, LTD.

WESTERN POCAHONTAS PROPERTIES, LP

BLACKSTONE ENERGY, LTD.

WESTERN POCAHONTAS PROPERTIES, LP



STA. 111+13 TO STA. 112+00 RT. CONSTRUCT 110 LF OF SAWCUT PAVEMENT AND LONGITUDINAL EDGE KEY

CONST. SODDING RT. OF C	
STATION TO STATION	SY
111+13 TO 118+88	505
119+12 TO 120+00	63

SIDEWALK CONSTRUCTION RT. OF C			
STATION TO STATION	SY	RAMP TYPE	DET. W. (SF)
111+22 TO 118+84	435	1	26
119+16 TO 120+00	46	1	13

CONST. STD. CURB & GUTTER RT. OF C	
STATION TO STATION	LF
111+13 TO 118+88	792
119+12 TO 120+00	102

ENTRANCE CONSTRUCTION RT. OF C					
STATION	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)	GRAVEL (SY)	ENTRANCE PIPE SIZE (LF)
119+00	24	275	---	---	15"

DITCH CONSTRUCTION RT. OF C				
STATION TO STATION	DESCRIPTION	TYPE	DEPTH	QUANTITY
111+39 TO 112+64	SPEC. "V"	ECB	1.5'	152 SY
112+64 TO 113+66	SPEC. "V"	ECB	1'	83 SY
113+66 TO 116+13	SPEC. 2' F.B.	ECB	1'	178 SY
116+13 TO 118+67	SPEC. 2' F.B.	ECB	1'	186 SY
119+30 TO 120+00	SPEC. 2' F.B.	ECB	1'	50 SY

BEFORE YOU DIG

The contractor is instructed to call 1-800-752-6007 to reach KY 811, the one-call system for information on the location of existing underground utilities. The call is to be placed a minimum of two (2) and no more than ten (10) business days prior to excavation. The contractor should be aware that owners of underground facilities are not required to be members of the KY 811 one-call Before-You-Dig (BUD) service. The contractor must coordinate excavation with the utility owners, including those whom do not subscribe to KY 811. It may be necessary for the contractor to contact the County Court Clerk to determine what utility companies have facilities in the area.

ORIGIN OF LEVELS

ELEVATIONS WERE DERIVED FROM GPS METHODS AND ARE ADJUSTED TO THE NAVD88 VERTICAL DATUM. GEOID MODEL USED WAS GEOID 18.

UTILITY OWNERS

- AMERICAN ELECTRIC POWER
3249 N. MAYO TRAIL
PIKEVILLE, KY 41501
- KNOTT COUNTY WATER AND SEWER DISTRICT
7777 BIG BRANCH ROAD
VICCO, KY 41775
- THACKER-GRIGSBY TELEPHONE & TV SERVICES
60 COMMUNICATION LANE
HINDMAN, KY 41822

FOR UTILITY INFORMATION ONLY

THE LOCATION OF UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY REVIEWING RECORD DRAWINGS. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. IT WILL BE THE ROAD CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITIES BEFORE EXCAVATING BY CALLING THE VARIOUS UTILITY OWNERS AND BY EXAMINING ANY SUPPLEMENTAL INFORMATION PROVIDED BY THE CABINET AND/OR UTILITY OWNER. THE ROAD CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES BY HAND DIGGING TO EXPOSE UTILITIES BEFORE HE EXCAVATES IN THE AREA OF A UTILITY. THE COST FOR REPAIR AND ANY OTHER ASSOCIATED COSTS FOR ANY DAMAGE TO UTILITIES CAUSED BY THE ROAD CONTRACTOR'S OPERATIONS SHALL BE BORNE BY THE ROAD CONTRACTOR.

THE CONTRACTOR IS ADVISED TO CONTACT THE B.U.D. ONE-CALL SYSTEM; HOWEVER, THE CONTRACTOR SHOULD BE AWARE THAT THE OWNERS OF THE UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE B.U.D. ONE-CALL SYSTEM. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE PROJECT AREA.

THE LOCATION OF THE PROPOSED UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY THEIR ENGINEER. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. THE CONTRACTOR IS ADVISED THAT THE EXACT SCHEDULE FOR UTILITY CONSTRUCTION IS CURRENTLY UNKNOWN AND THAT COORDINATION WILL BE REQUIRED BETWEEN THE ROAD CONTRACTOR AND THE UTILITY CONTRACTORS.

CONST. STD. CURB & GUTTER LT. OF C	
STATION TO STATION	LF
111+51 TO 118+88	715
119+12 TO 120+00	702

STA. 111+00 CONSTRUCT 90 LF OF EDGE KEY

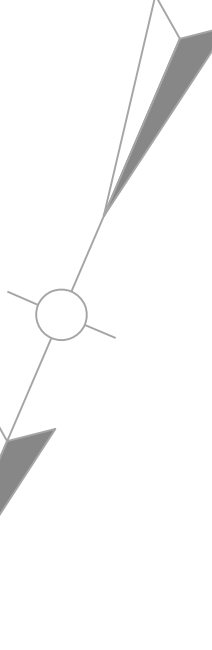
STA. 112+00 SAWCUT 42 LF OF ROADWAY. THE EXISTING ROADWAY FROM STA. 112+00 TO STA. 113+45 SHALL BE REMOVED. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM EMBANKMENT IN PLACE.

STA. 111+51 TO STA. 112+00 LT. CONSTRUCT 49 LF OF SAWCUT PAVEMENT AND LONGITUDINAL EDGE KEY

ENTRANCE CONSTRUCTION LT. OF C					
STATION	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)	GRAVEL (SY)	ENTRANCE PIPE SIZE LF
119+00	24	275	---	---	15"

CONST. SODDING LT. OF C	
STATION TO STATION	SY
111+51 TO 118+88	374
119+12 TO 120+00	51

DITCH CONSTRUCTION LT. OF C				
STATION TO STATION	DESCRIPTION	TYPE	DEPTH	QUANTITY
111+39 TO 113+00	SPEC. 2' F.B.	ECB	2'	196 SY
113+00 TO 118+66	SPEC. 2' F.B.	ECB	1.5'	548 SY
119+33 TO 120+00	SPEC. 2' F.B.	ECB	1'	49 SY



BLACKSTONE ENERGY, LTD.

WESTERN POCAHONTAS PROPERTIES, LP

PI STA 114+04.28
 $\Delta = 64'47.51"$ LT
 $T = 507.67'$
 $L = 904.74'$
 $R = 800.00'$
 $E = 147.49'$
 $e = N.C.$

PROPOSED ENCASEMENT

STA. 119+00 CHESTNUT RIDGE RD. EXTENSION
 = STA. 50+00 APPR. 119+00

PROPOSED WATER

PROPOSED SANITARY

BLACKSTONE ENERGY, LTD.

WESTERN POCAHONTAS PROPERTIES, LP

STA. 111+13 TO STA. 112+00 RT. CONSTRUCT 110 LF OF SAWCUT PAVEMENT AND LONGITUDINAL EDGE KEY

CONST. STD. CURB & GUTTER RT. OF C	
STATION TO STATION	LF
111+13 TO 118+88	792
119+12 TO 120+00	102

CONST. SODDING RT. OF C	
STATION TO STATION	SY
111+13 TO 118+88	505
119+12 TO 120+00	63

ENTRANCE CONSTRUCTION RT. OF C					
STATION	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)	GRAVEL (SY)	ENTRANCE PIPE SIZE LF
119+00	24	275	---	---	15"

DITCH CONSTRUCTION RT. OF C				
STATION TO STATION	DESCRIPTION	TYPE	DEPTH	QUANTITY
111+39 TO 112+64	SPEC. "V"	ECB	1.5'	152 SY
112+64 TO 113+66	SPEC. "V"	ECB	1'	83 SY
113+66 TO 116+13	SPEC. 2' F.B.	ECB	1'	178 SY
116+13 TO 118+67	SPEC. 2' F.B.	ECB	1'	186 SY
119+30 TO 120+00	SPEC. 2' F.B.	ECB	1'	50 SY

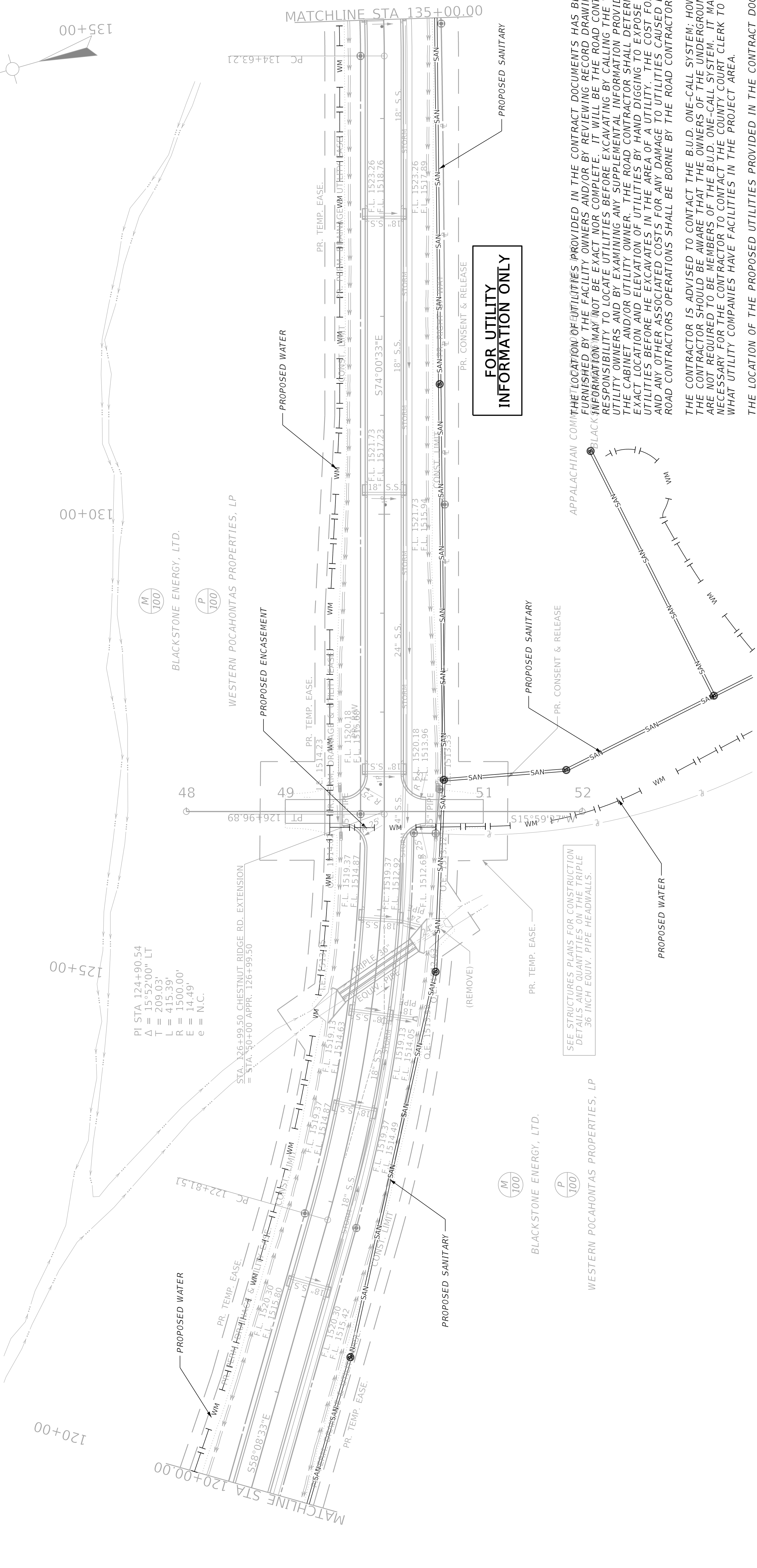
DITCH CONSTRUCTION LT. OF C.				
STATION TO STATION	DESCRIPTION	TYPE	DEPTH	QUANTITY
120+00 TO 121+00	SPEC. 2' F.B.	ECB	1'	72 SY
121+00 TO 124+84	SPEC. 2' F.B.	ECB	1'	277 SY
125+03	INLET	CL III	2'	73 TONS
125+15 TO 126+70	SPEC. 2' F.B.	ECB	1'	112 SY
127+28 TO 135+00	SPEC. 2' F.B.	ECB	1'	556 SY

CONST. STD. CURB & GUTTER LT. OF C.			
STATION TO STATION	LF	LF	LF
120+00 TO 126+87	653		
127+11 TO 135+00	767		

ENTRANCE CONSTRUCTION LT. OF C.						
STATION	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)	GRAVEL (SY)	ENTRANCE PIPE SIZE (IN)	ENTRANCE PIPE LF
127+00	24	154	---	---	15"	42

CONST. SODDING LT. OF C.			
STATION TO STATION	SY	SY	SY
120+00 TO 126+87	349		
127+11 TO 135+00	401		

STA. 125+09 LT. CONSTRUCT 50 LF OF 4 FT CHAINLINK FENCE AROUND HEADWALL



PI STA 124+90.54
 $\Delta = 15^{\circ}52'00''$ LT
 $T = 209.03'$
 $L = 415.39'$
 $R = 1500.00'$
 $E = 14.49'$
 $e = N.C.$

STA. 126+99.50 CHESTNUT RIDGE RD. EXTENSION
 = STA. 30+00 APPR. 126+99.50

SEE STRUCTURES PLANS FOR CONSTRUCTION DETAILS AND QUANTITIES ON THE TRIPLE 36" INCH EQUIV. PIPE HEADWALLS.

FOR UTILITY INFORMATION ONLY

APPALACHIAN COUNTY THE LOCATION OF UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY REVIEWING RECORD DRAWINGS. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. IT WILL BE THE ROAD CONTRACTORS RESPONSIBILITY TO LOCATE UTILITIES BEFORE EXCAVATING BY CALLING THE VARIOUS UTILITY OWNERS AND BY EXAMINING ANY SUPPLEMENTAL INFORMATION PROVIDED BY THE CABINET AND/OR UTILITY OWNER. THE ROAD CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES BY HAND DIGGING TO EXPOSE UTILITIES BEFORE HE EXCAVATES IN THE AREA OF A UTILITY. THE COST FOR REPAIR AND ANY OTHER ASSOCIATED COSTS FOR ANY DAMAGE TO UTILITIES CAUSED BY THE ROAD CONTRACTORS OPERATIONS SHALL BE BORNE BY THE ROAD CONTRACTOR.

THE CONTRACTOR IS ADVISED TO CONTACT THE B.U.D. ONE-CALL SYSTEM; HOWEVER, THE CONTRACTOR SHOULD BE AWARE THAT THE OWNERS OF THE UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE B.U.D. ONE-CALL SYSTEM. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE PROJECT AREA.

THE LOCATION OF THE PROPOSED UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY THEIR ENGINEER. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. THE CONTRACTOR IS ADVISED THAT THE EXACT SCHEDULE FOR UTILITY CONSTRUCTION IS CURRENTLY UNKNOWN AND THAT COORDINATION WILL BE REQUIRED BETWEEN THE ROAD CONTRACTOR AND THE UTILITY CONTRACTORS.

STA. 125+69 RT. CONSTRUCT 50 LF OF 4 FT CHAINLINK FENCE AROUND HEADWALL

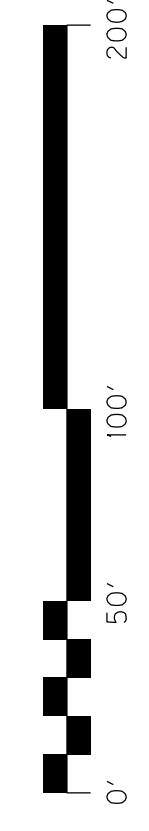
DITCH CONSTRUCTION RT. OF C.				
STATION TO STATION	DESCRIPTION	TYPE	DEPTH	QUANTITY
120+00 TO 120+55	SPEC. 2' F.B.	ECB	1'	40 SY
120+55 TO 125+62	SPEC. 2' F.B.	ECB	1'	365 SY
125+74	OUTLET	CL III	2'	110 TONS
125+92 TO 126+71	SPEC. 2' F.B.	ECB	1'	57 SY
127+28 TO 135+00	SPEC. 2' F.B.	ECB	1'	555 SY

CONST. STD. CURB & GUTTER RT. OF C.			
STATION TO STATION	LF	LF	LF
120+00 TO 126+88	663		
127+12 TO 135+00	768		

ENTRANCE CONSTRUCTION RT. OF C.						
STATION	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)	GRAVEL (SY)	ENTRANCE PIPE SIZE (IN)	ENTRANCE PIPE LF
127+00	24	154	---	---	15"	43

SIDEWALK CONSTRUCTION RT. OF C.			
STATION TO STATION	SY	RAMP TYPE	IDET. W. (SF)
120+00 TO 126+84	383	1	13
127+16 TO 135+00	435	1	13

CONST. SODDING RT. OF C.			
STATION TO STATION	SY	SY	SY
120+00 TO 126+88	432		
127+12 TO 135+00	491		



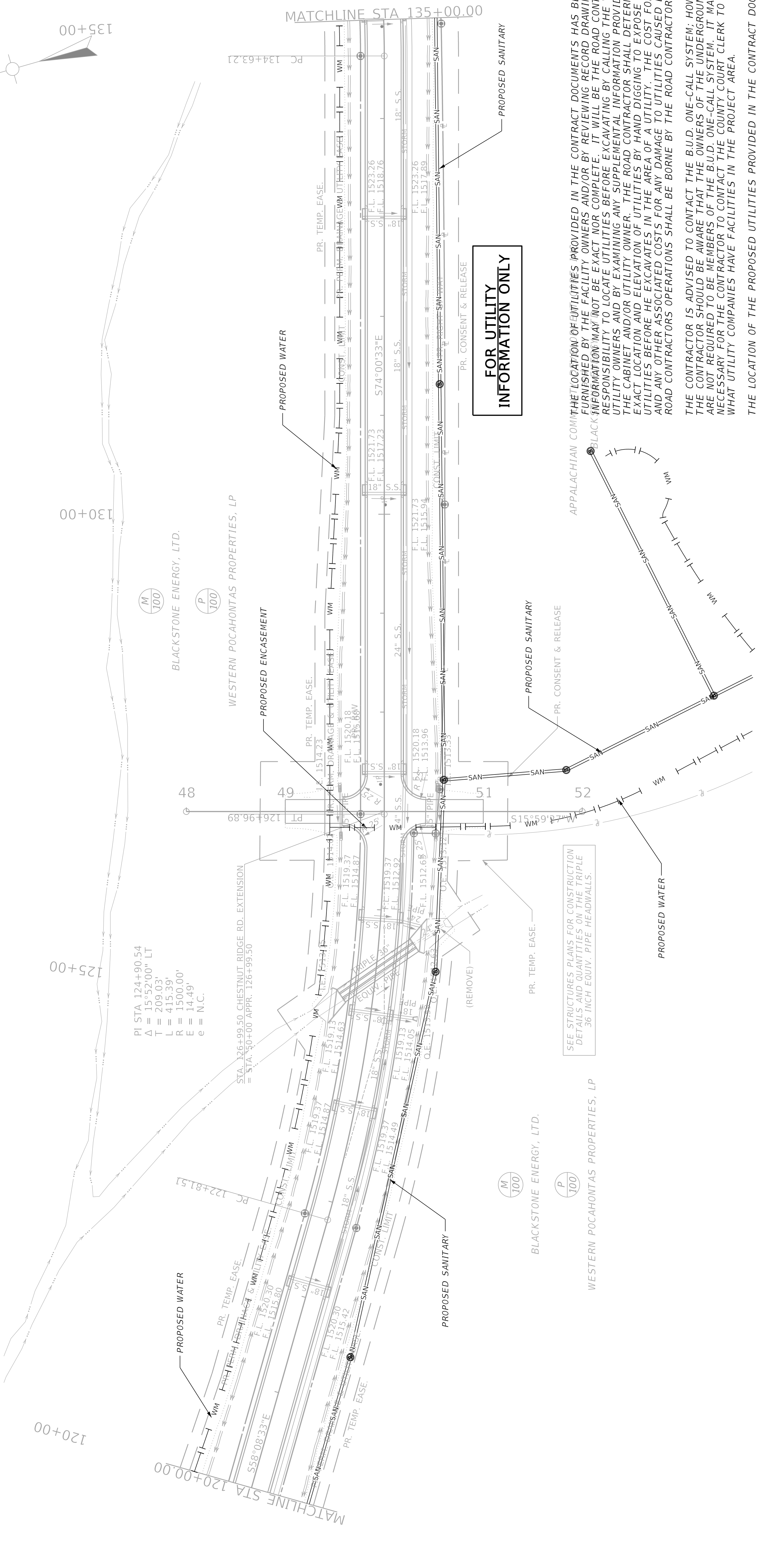
DITCH CONSTRUCTION LT. OF C.			
STATION TO STATION	DESCRIPTION	TYPE	DEPTH
120+00 TO 121+00	SPEC. 2' F.B.	ECB	1'
121+00 TO 124+84	SPEC. 2' F.B.	ECB	1'
125+03	INLET	CL III	2'
125+15 TO 126+70	SPEC. 2' F.B.	ECB	1'
127+28 TO 135+00	SPEC. 2' F.B.	ECB	1'

STA. 125+09 LT. CONSTRUCT 50 LF OF 4 FT CHAINLINK FENCE AROUND HEADWALL

CONST. STD. CURB & GUTTER LT. OF C.			
STATION TO STATION	LF	ASPHALT (SY)	CONCRETE (SY)
120+00 TO 126+87	653	154	---
127+11 TO 135+00	767	---	---

ENTRANCE CONSTRUCTION LT. OF C.			
STATION	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)
127+00	24	154	---

CONST. SODDING LT. OF C.			
STATION TO STATION	SY	CONCRETE (SY)	ASPHALT (SY)
120+00 TO 126+87	349	---	---
127+11 TO 135+00	401	---	---



FOR UTILITY INFORMATION ONLY

SEE STRUCTURES PLANS FOR CONSTRUCTION DETAILS AND QUANTITIES ON THE TRIPLE 36" INCH EQUIV. PIPE HEADWALLS.

APPALACHIAN COMPANY THE LOCATION OF UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY REVIEWING RECORD DRAWINGS. THE RESPONSIBILITY TO LOCATE UTILITIES BEFORE EXCAVATING BY CALLING THE VARIOUS UTILITY OWNERS AND BY EXAMINING ANY SUPPLEMENTAL INFORMATION PROVIDED BY THE CABINET AND/OR UTILITY OWNER. THE ROAD CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES BY HAND DIGGING TO EXPOSE UTILITIES BEFORE HE EXCAVATES IN THE AREA OF A UTILITY. THE COST FOR REPAIR AND ANY OTHER ASSOCIATED COSTS FOR ANY DAMAGE TO UTILITIES CAUSED BY THE ROAD CONTRACTORS OPERATIONS SHALL BE BORNE BY THE ROAD CONTRACTOR.

THE CONTRACTOR IS ADVISED TO CONTACT THE B.U.D. ONE-CALL SYSTEM; HOWEVER, THE CONTRACTOR SHOULD BE AWARE THAT THE OWNERS OF THE UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE B.U.D. ONE-CALL SYSTEM. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE PROJECT AREA.

THE LOCATION OF THE PROPOSED UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY THEIR ENGINEER. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. THE CONTRACTOR IS ADVISED THAT THE EXACT SCHEDULE FOR UTILITY CONSTRUCTION IS CURRENTLY UNKNOWN AND THAT COORDINATION WILL BE REQUIRED BETWEEN THE ROAD CONTRACTOR AND THE UTILITY CONTRACTORS.

STA. 125+69 RT. CONSTRUCT 50 LF OF 4 FT CHAINLINK FENCE AROUND HEADWALL

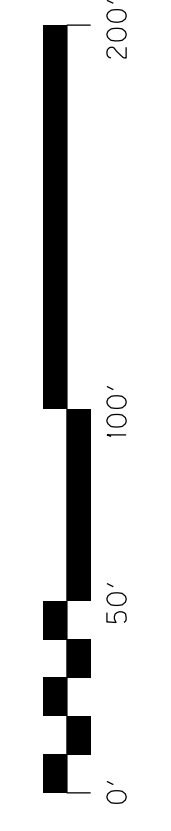
DITCH CONSTRUCTION RT. OF C.			
STATION TO STATION	DESCRIPTION	TYPE	DEPTH
120+00 TO 120+55	SPEC. 2' F.B.	ECB	1'
120+55 TO 125+62	SPEC. 2' F.B.	ECB	1'
125+74	OUTLET	CL III	2'
125+92 TO 126+71	SPEC. 2' F.B.	ECB	1'
127+28 TO 135+00	SPEC. 2' F.B.	ECB	1'

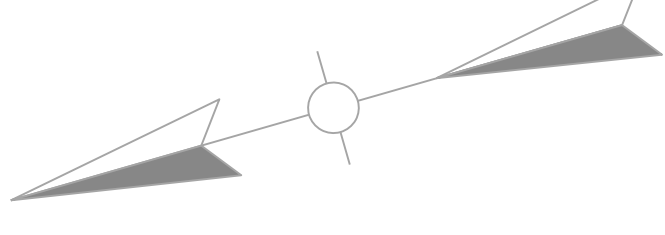
CONST. STD. CURB & GUTTER RT. OF C.			
STATION TO STATION	LF	ASPHALT (SY)	CONCRETE (SY)
120+00 TO 126+88	663	154	---
127+12 TO 135+00	768	---	---

ENTRANCE CONSTRUCTION RT. OF C.			
STATION	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)
127+00	24	154	---

SIDEWALK CONSTRUCTION RT. OF C.			
STATION TO STATION	SY	RAMP TYPE	IDET. W. (SF)
120+00 TO 126+84	383	1	13
127+16 TO 135+00	435	1	13

CONST. SODDING RT. OF C.			
STATION TO STATION	SY	CONCRETE (SY)	ASPHALT (SY)
120+00 TO 126+88	432	---	---
127+12 TO 135+00	491	---	---





CONST. STD. CURB & GUTTER LT. OF ζ		ENTRANCE CONSTRUCTION LT. OF ζ		DITCH CONSTRUCTION LT. OF ζ		CONST. SODDING LT. OF ζ								
STATION TO STATION	LF	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)	GRAVEL (SY)	ENTRANCE PIPE SIZE	LF	STATION TO STATION	QUANTITY	DEPTH	TYPE	STATION TO STATION	QUANTITY	SY
135+00 TO 136+13	116	24	153	---	---	15"	50	135+00 TO 135+01	65 SY	1'	ECB	135+00 TO 136+13	63	63
136+37 TO 139+00	263	24	153	---	---	15"	50	136+59 TO 139+00	174 SY	1'	ECB	136+37 TO 139+00	137	137

STA. 139+00 CONSTRUCT 37.5 LF OF STEEL W BEAM GUARDRAIL S FACE AND 2 TERMINAL SECTIONS NO. 1 AT THE END OF CONSTRUCTION.

CONST. STD. CURB & GUTTER LT. OF ζ		ENTRANCE CONSTRUCTION LT. OF ζ		DITCH CONSTRUCTION LT. OF ζ		CONST. SODDING LT. OF ζ								
STATION TO STATION	LF	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)	GRAVEL (SY)	ENTRANCE PIPE SIZE	LF	STATION TO STATION	QUANTITY	DEPTH	TYPE	STATION TO STATION	QUANTITY	SY
135+00 TO 136+13	116	24	153	---	---	15"	50	135+00 TO 135+01	65 SY	1'	ECB	135+00 TO 136+13	63	63
136+37 TO 139+00	263	24	153	---	---	15"	50	136+59 TO 139+00	174 SY	1'	ECB	136+37 TO 139+00	137	137

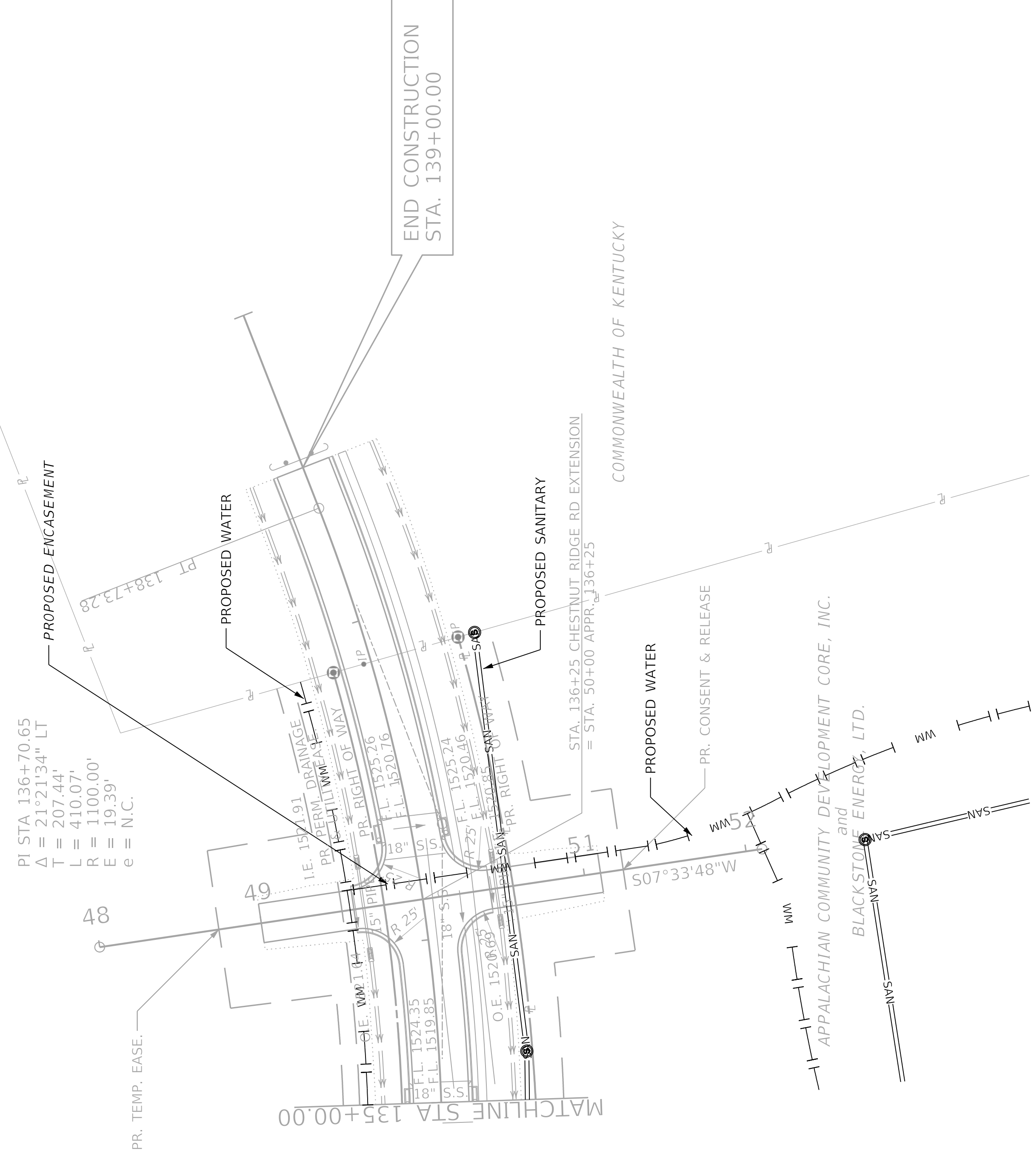
CONST. STD. CURB & GUTTER LT. OF ζ		ENTRANCE CONSTRUCTION LT. OF ζ		DITCH CONSTRUCTION LT. OF ζ		CONST. SODDING LT. OF ζ								
STATION TO STATION	LF	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)	GRAVEL (SY)	ENTRANCE PIPE SIZE	LF	STATION TO STATION	QUANTITY	DEPTH	TYPE	STATION TO STATION	QUANTITY	SY
135+00 TO 136+13	116	24	153	---	---	15"	50	135+00 TO 135+01	65 SY	1'	ECB	135+00 TO 136+13	63	63
136+37 TO 139+00	263	24	153	---	---	15"	50	136+59 TO 139+00	174 SY	1'	ECB	136+37 TO 139+00	137	137

M 100

P 100

BLACKSTONE ENERGY, LTD.

WESTERN POCAHONTAS PROPERTIES, LP



FOR UTILITY INFORMATION ONLY

THE LOCATION OF UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY REVIEWING RECORD DRAWINGS. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. IT WILL BE THE ROAD CONTRACTORS RESPONSIBILITY TO LOCATE UTILITIES BEFORE EXCAVATING BY CALLING THE VARIOUS UTILITY OWNERS AND BY EXAMINING ANY SUPPLEMENTAL INFORMATION PROVIDED BY THE CABINET AND/OR UTILITY OWNER. THE ROAD CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES BY HAND DIGGING TO EXPOSE UTILITIES BEFORE HE EXCAVATES IN THE AREA OF A UTILITY. THE COST FOR REPAIR AND ANY OTHER ASSOCIATED COSTS FOR ANY DAMAGE TO UTILITIES CAUSED BY THE ROAD CONTRACTORS OPERATIONS SHALL BE BORNE BY THE ROAD CONTRACTOR.

THE CONTRACTOR IS ADVISED TO CONTACT THE B.U.D. ONE-CALL SYSTEM; HOWEVER, THE CONTRACTOR SHOULD BE AWARE THAT THE OWNERS OF THE UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE B.U.D. ONE-CALL SYSTEM. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE PROJECT AREA.

THE LOCATION OF THE PROPOSED UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY THEIR ENGINEER. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. THE CONTRACTOR IS ADVISED THAT THE EXACT SCHEDULE FOR UTILITY CONSTRUCTION IS CURRENTLY UNKNOWN AND THAT COORDINATION WILL BE REQUIRED BETWEEN THE ROAD CONTRACTOR AND THE UTILITY CONTRACTORS.

SIDEWALK CONSTRUCTION RT. OF ζ		CONST. STD. CURB & GUTTER RT. OF ζ	
STATION TO STATION	SY	STATION TO STATION	LF
135+00 TO 136+09	61	135+00 TO 136+13	121
136+41 TO 139+00	147	136+37 TO 139+00	271

ENTRANCE CONSTRUCTION RT. OF ζ		ENTRANCE CONSTRUCTION RT. OF ζ	
STATION	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)
136+25	24	183	---

DITCH CONSTRUCTION RT. OF ζ		ENTRANCE CONSTRUCTION RT. OF ζ	
STATION TO STATION	DESCRIPTION	TYPE	DEPTH
135+00 TO 136+01	SPEC. 2' F.B.	ECB	1'
136+48 TO 139+00	SPEC. 2' F.B.	ECB	1'

CONST. SODDING RT. OF ζ		ENTRANCE CONSTRUCTION RT. OF ζ	
STATION TO STATION	QUANTITY	GRAVEL (SY)	CONCRETE (SY)
135+00 TO 136+13	74	---	---
136+37 TO 139+00	172	---	---

CONST. STD. CURB & GUTTER LT. OF ζ	
STATION TO STATION	LF
135+00 TO 136+13	116
136+37 TO 139+00	263

ENTRANCE CONSTRUCTION LT. OF ζ			
STATION	WIDTH (FT)	ASPHALT (SY)	CONCRETE (SY)
136+25	24	153	---

ENTRANCE PIPE		
SIZE	LF	LF
15"	50	---

DITCH CONSTRUCTION LT. OF ζ			
STATION TO STATION	DESCRIPTION	TYPE	DEPTH
135+00 TO 135+91	SPEC. 2' F.B.	ECB	1'
136+59 TO 139+00	SPEC. 2' F.B.	ECB	1'

CONST. SODDING LT. OF ζ		
STATION TO STATION	SY	SY
135+00 TO 136+13	63	63
136+37 TO 139+00	137	137

STA. 139+00 CONSTRUCT 37.5 LF OF STEEL W BEAM GUARDRAIL S FACE AND 2 TERMINAL SECTIONS NO. 1 AT THE END OF CONSTRUCTION.

140+00

M
100

BLACKSTONE ENERGY, LTD.

P
100

WESTERN POCAHONTAS PROPERTIES, LP

135+00

PI STA 136+70.65
 $\Delta = 21^\circ 21' 34''$ LT
 $T = 207.44'$
 $L = 410.07'$
 $R = 1100.00'$
 $E = 19.39'$
 $e = N.C.$

PROPOSED ENCASEMENT

PR. TEMP. EASE.

PROPOSED WATER

MATCHLINE STA 135+00.00

END CONSTRUCTION
STA. 139+00.00

PROPOSED SANITARY

STA. 136+25 CHESTNUT RIDGE RD. EXTENSION
= STA. 30+00 APPR. 136+25

COMMONWEALTH OF KENTUCKY

PROPOSED WATER

PR. CONSENT & RELEASE

APPALACHIAN COMMUNITY DEVELOPMENT CORE, INC.

BLACKSTONE ENERGY, LTD.

FOR UTILITY INFORMATION ONLY

THE LOCATION OF UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY REVIEWING RECORD DRAWINGS. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. IT WILL BE THE ROAD CONTRACTORS RESPONSIBILITY TO LOCATE UTILITIES BEFORE EXCAVATING BY CALLING THE VARIOUS UTILITY OWNERS AND BY EXAMINING ANY SUPPLEMENTAL INFORMATION PROVIDED BY THE CABINET AND/OR UTILITY OWNER. THE ROAD CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES BY HAND DIGGING TO EXPOSE UTILITIES BEFORE HE EXCAVATES IN THE AREA OF A UTILITY. THE COST FOR REPAIR AND ANY OTHER ASSOCIATED COSTS FOR ANY DAMAGE TO UTILITIES CAUSED BY THE ROAD CONTRACTORS OPERATIONS SHALL BE BORNE BY THE ROAD CONTRACTOR.

THE CONTRACTOR IS ADVISED TO CONTACT THE B.U.D. ONE-CALL SYSTEM; HOWEVER, THE CONTRACTOR SHOULD BE AWARE THAT THE OWNERS OF THE UNDERGROUND FACILITIES ARE NOT REQUIRED TO BE MEMBERS OF THE B.U.D. ONE-CALL SYSTEM. IT MAY BE NECESSARY FOR THE CONTRACTOR TO CONTACT THE COUNTY COURT CLERK TO DETERMINE WHAT UTILITY COMPANIES HAVE FACILITIES IN THE PROJECT AREA.

THE LOCATION OF THE PROPOSED UTILITIES PROVIDED IN THE CONTRACT DOCUMENTS HAS BEEN FURNISHED BY THE FACILITY OWNERS AND/OR BY THEIR ENGINEER. THE INFORMATION MAY NOT BE EXACT NOR COMPLETE. THE CONTRACTOR IS ADVISED THAT THE EXACT SCHEDULE FOR UTILITY CONSTRUCTION IS CURRENTLY UNKNOWN AND THAT COORDINATION WILL BE REQUIRED BETWEEN THE ROAD CONTRACTOR AND THE UTILITY CONTRACTORS.

SIDEWALK CONSTRUCTION RT. OF ζ			
STATION TO STATION	SY	RAMP TYPE	DET. W. (SF)
135+00 TO 136+09	61	1	13
136+41 TO 139+00	147	1	13

CONST. STD. CURB & GUTTER RT. OF ζ			
STATION TO STATION	LF	CONCRETE (SY)	ASPHALT (SY)
135+00 TO 136+13	121	---	153
136+37 TO 139+00	271	---	---

ENTRANCE CONSTRUCTION RT. OF ζ			
STATION	WIDTH (FT)	ENTRANCE PIPE	
		ASPHALT (SY)	CONCRETE (SY)
136+25	24	183	---

DITCH CONSTRUCTION RT. OF ζ			
STATION TO STATION	DESCRIPTION	TYPE	DEPTH
135+00 TO 136+01	SPEC. 2' F.B.	ECB	1'
136+48 TO 139+00	SPEC. 2' F.B.	ECB	1'

CONST. SODDING RT. OF ζ		
STATION TO STATION	SY	SY
135+00 TO 136+13	74	74
136+37 TO 139+00	172	172

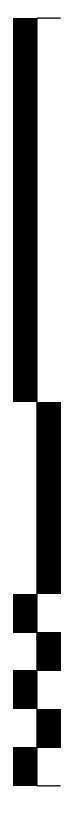


COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



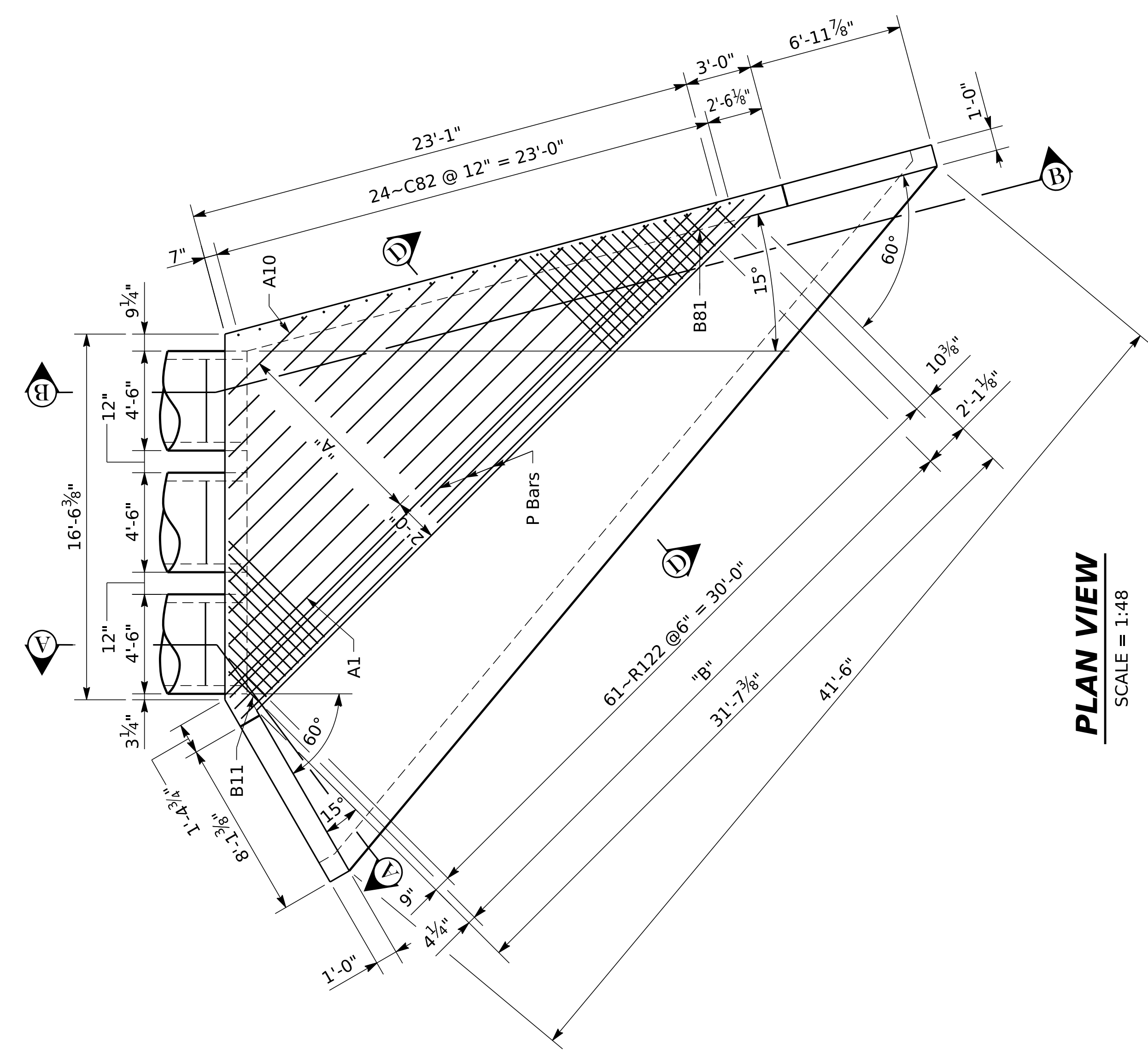
CHESTNUT RIDGE EXTENSION UTILITY SHEET

HORIZONTAL SCALE: 1"=50'



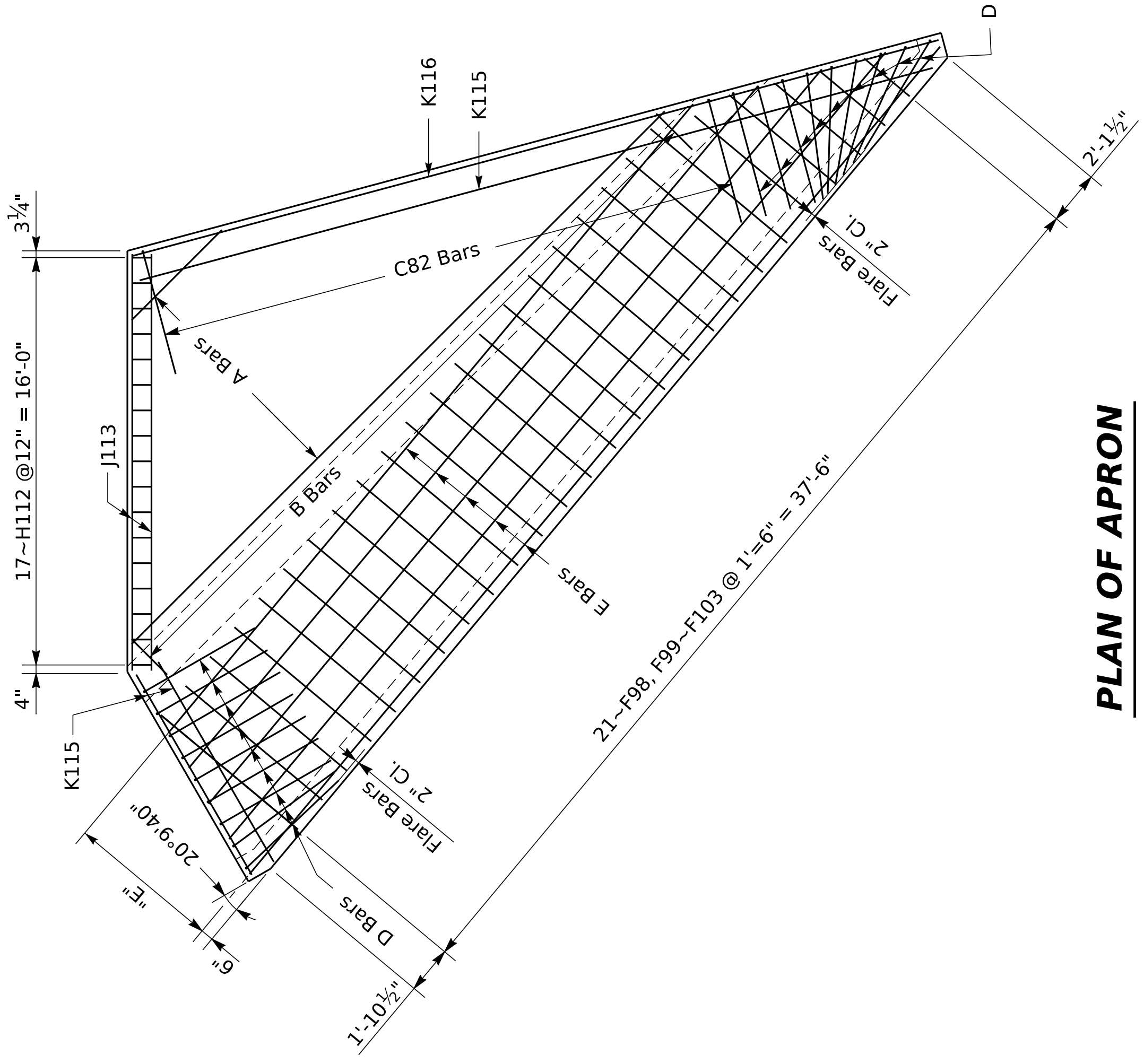
STA 135+00 TO STA 140+00

ITEM NO. 12-162.00
SHEET NO. R35
COUNTY OF KNOTT



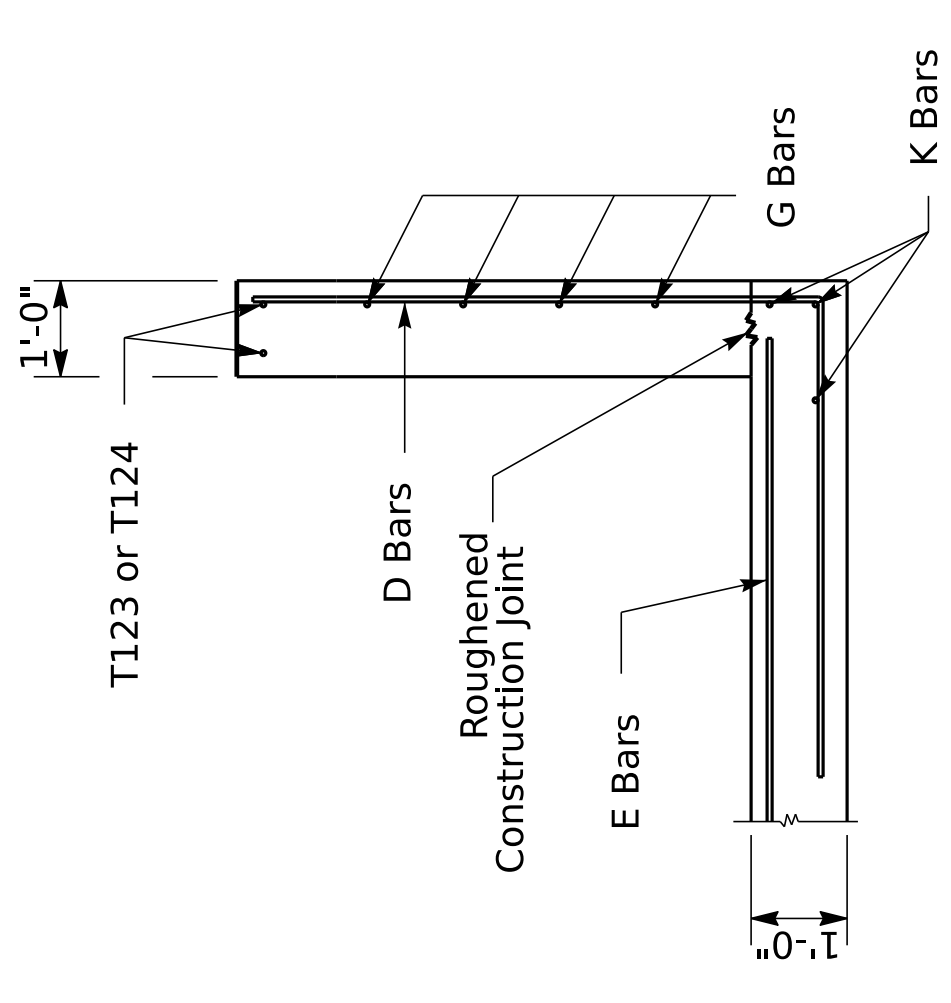
PLAN VIEW
SCALE = 1:48

"A" A1~A10 @ 12" = 9'-0" (Top & Bottom Slabs)
 "B" B11~B81 @ 5" = 29'-2" (Top & Bottom Slabs)

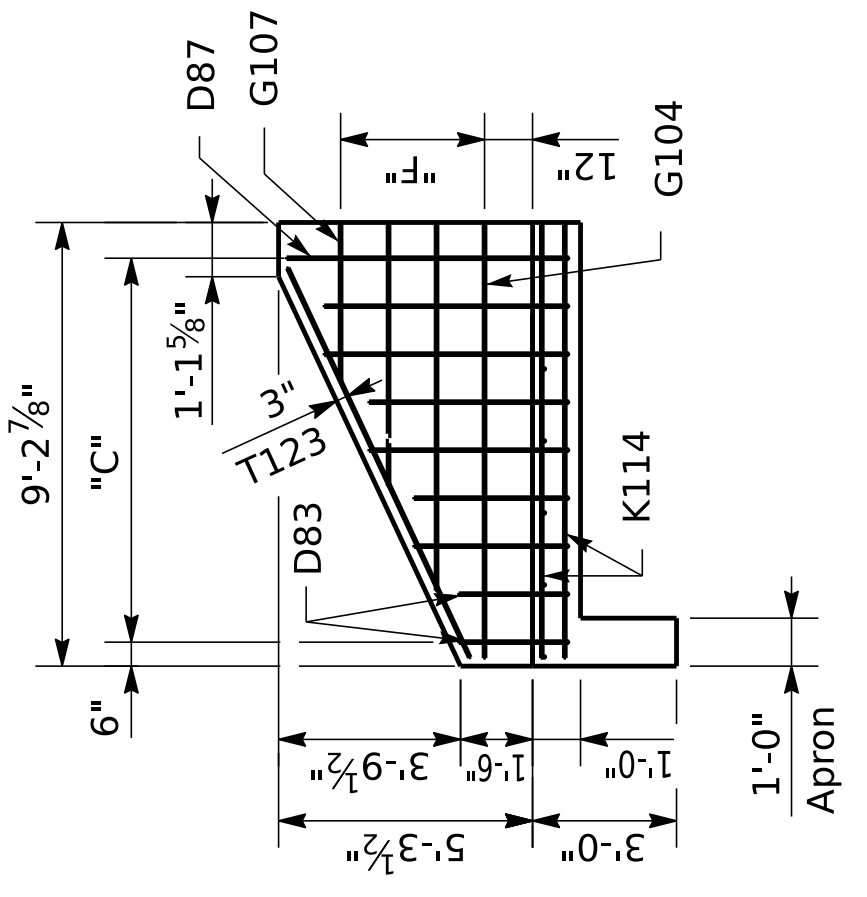


PLAN OF APRON
SCALE = 1:48

"E" E93~E97 @ 1'-6" = 6'-0"

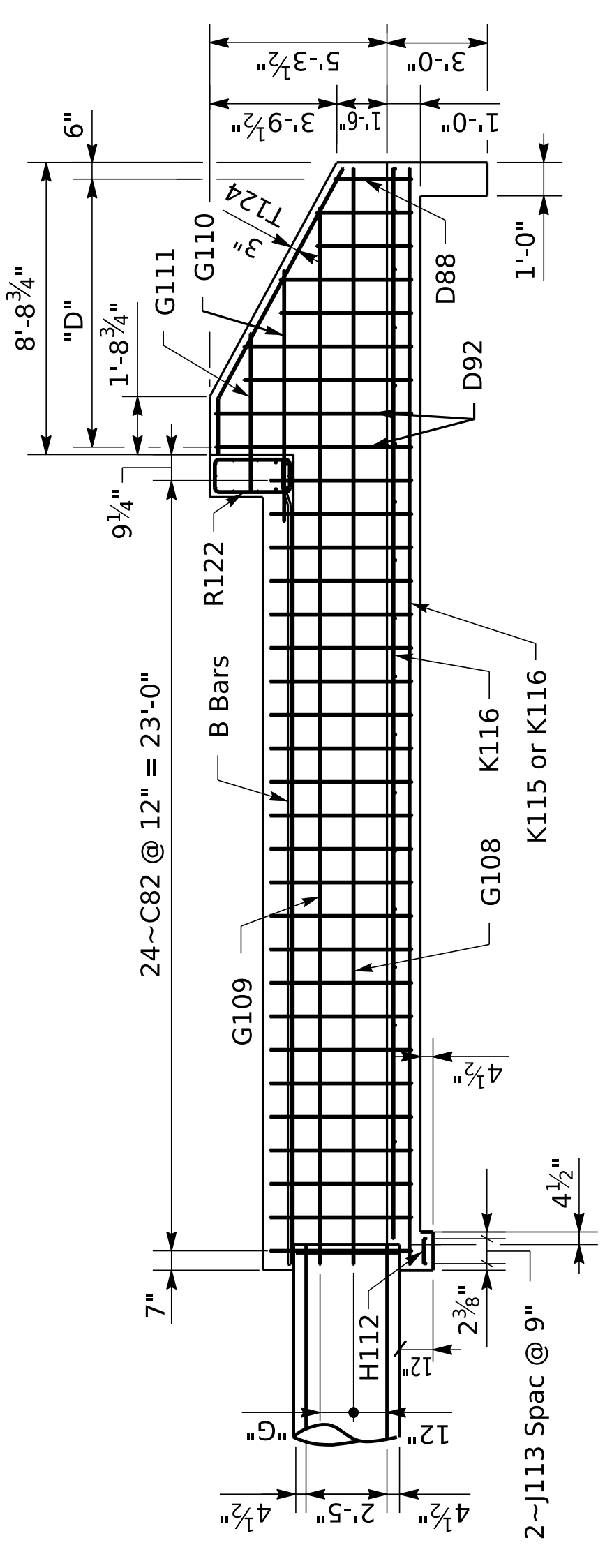


Wing Section
SCALE = 1:24

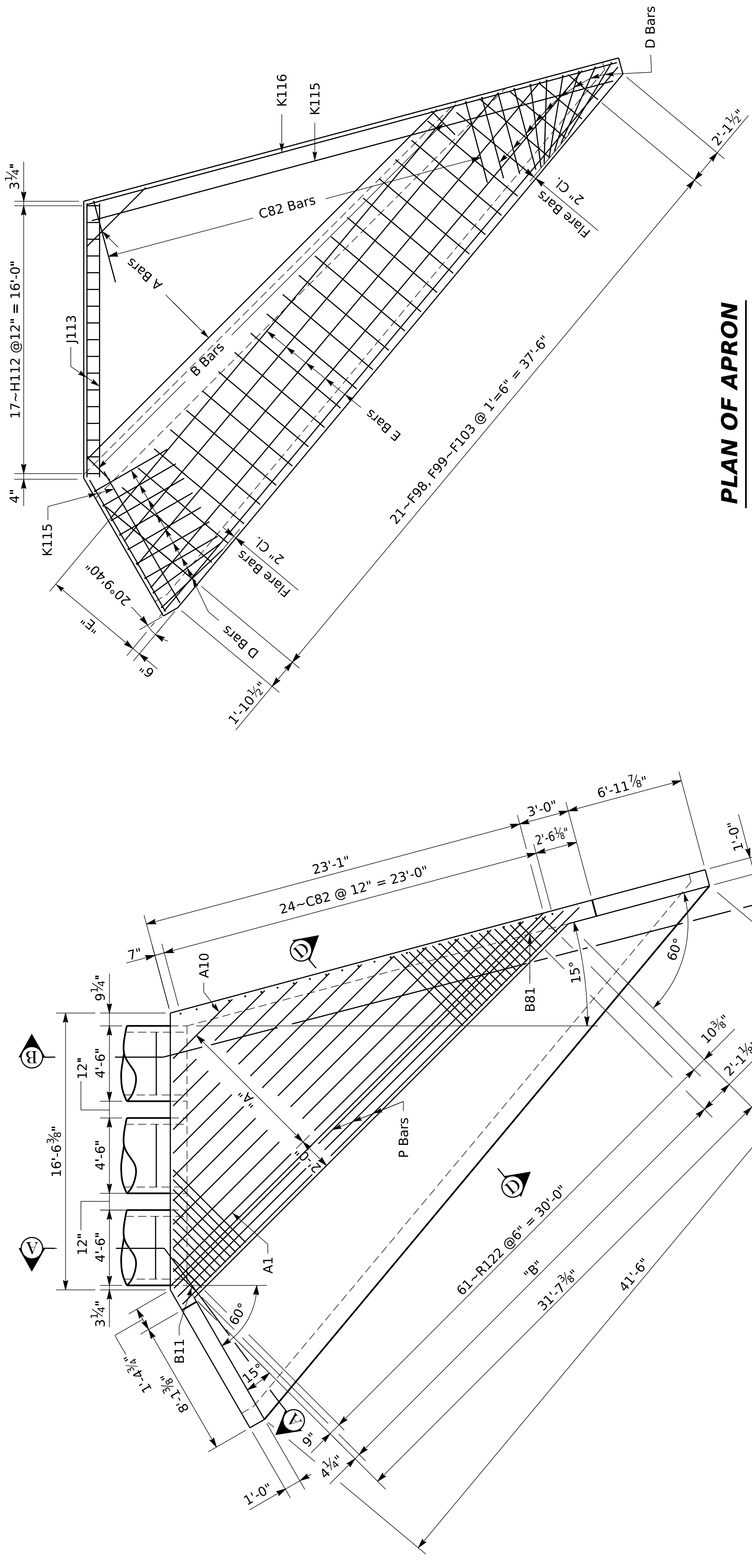


Section A-A (Wing A)
SCALE = 1:48

"C" 2~D83, 2~D84, 2~D85, 2~D86, 1~D87 @ 12" = 8'-0"
 "D" 2~D92, 2~D91, 2~D90, 2~D89, 1~D88 @ 12" = 8'-0"
 "F" G104~G107 @ 12" = 3'-0"
 "G" G108~G109 @ 12" = 1'-0"



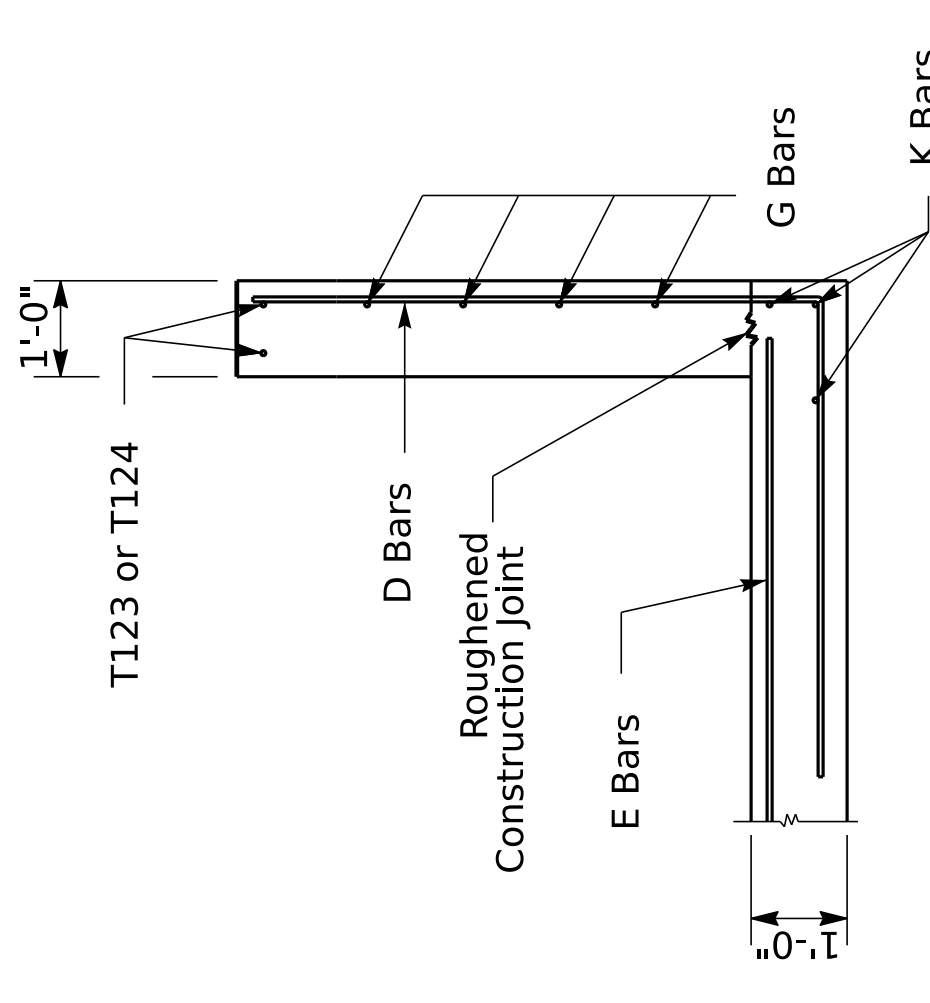
Section B-B (Wing B)
SCALE = 1:48



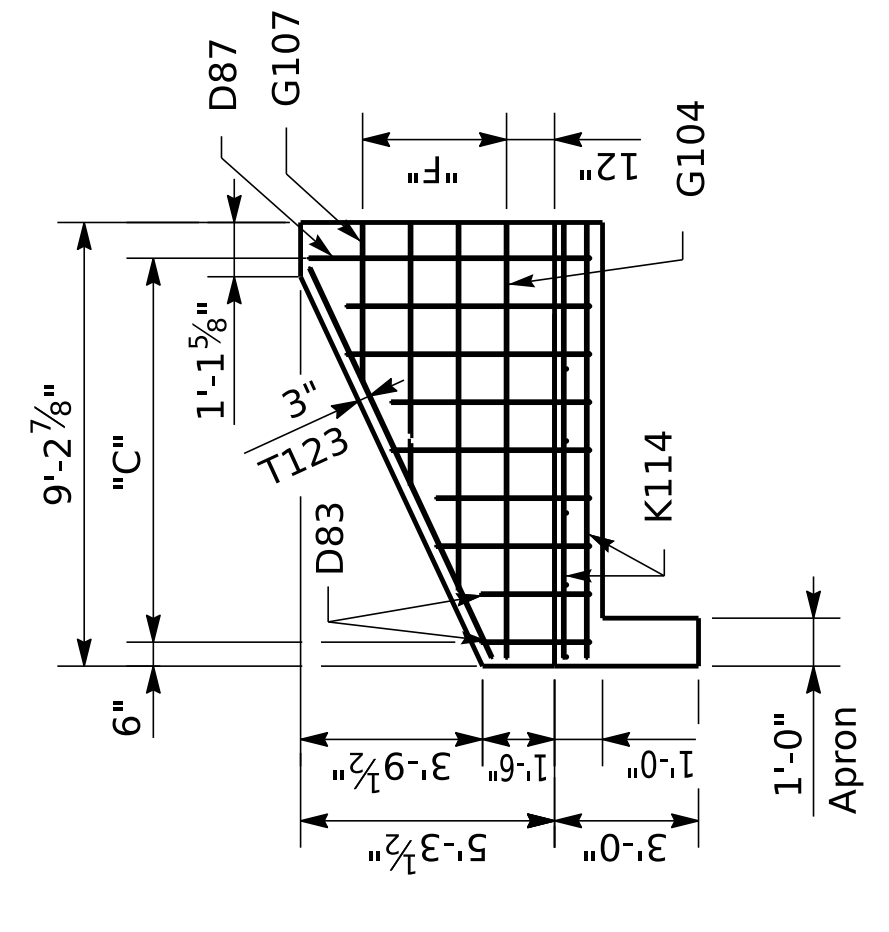
"A" A1-A10 @ 12" = 9'-0" (Top & Bottom Slabs)
 "B" B11-B81 @ 5" = 29'-2" (Top & Bottom Slabs)

PLAN OF APRON
SCALE = 1:48

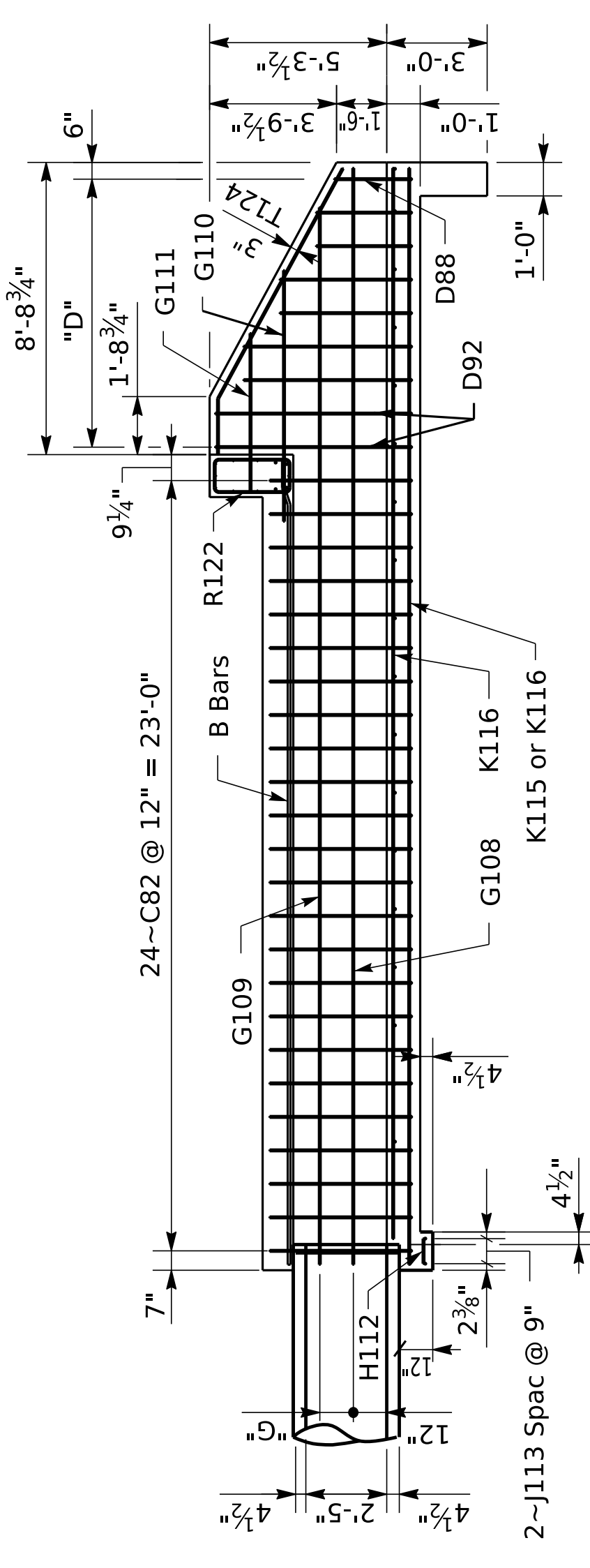
"E" E93-E97 @ 1'-6" = 6'-0"



Wing Section
SCALE = 1:24

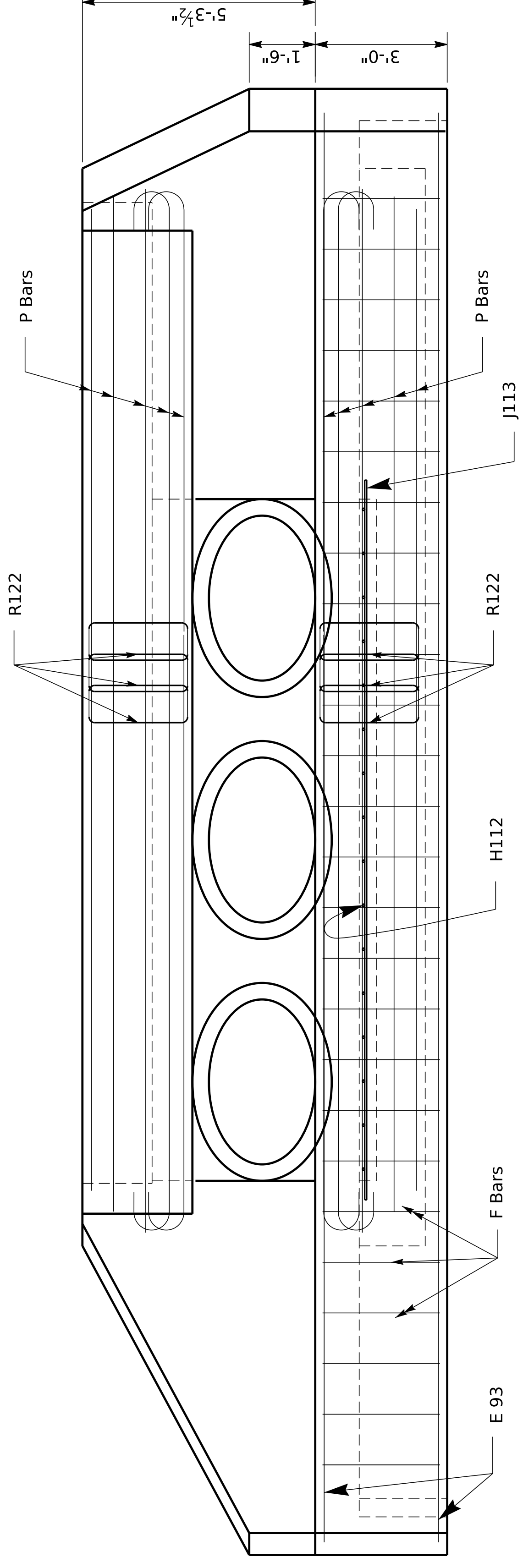


Section A-A (Wing A)
SCALE = 1:48

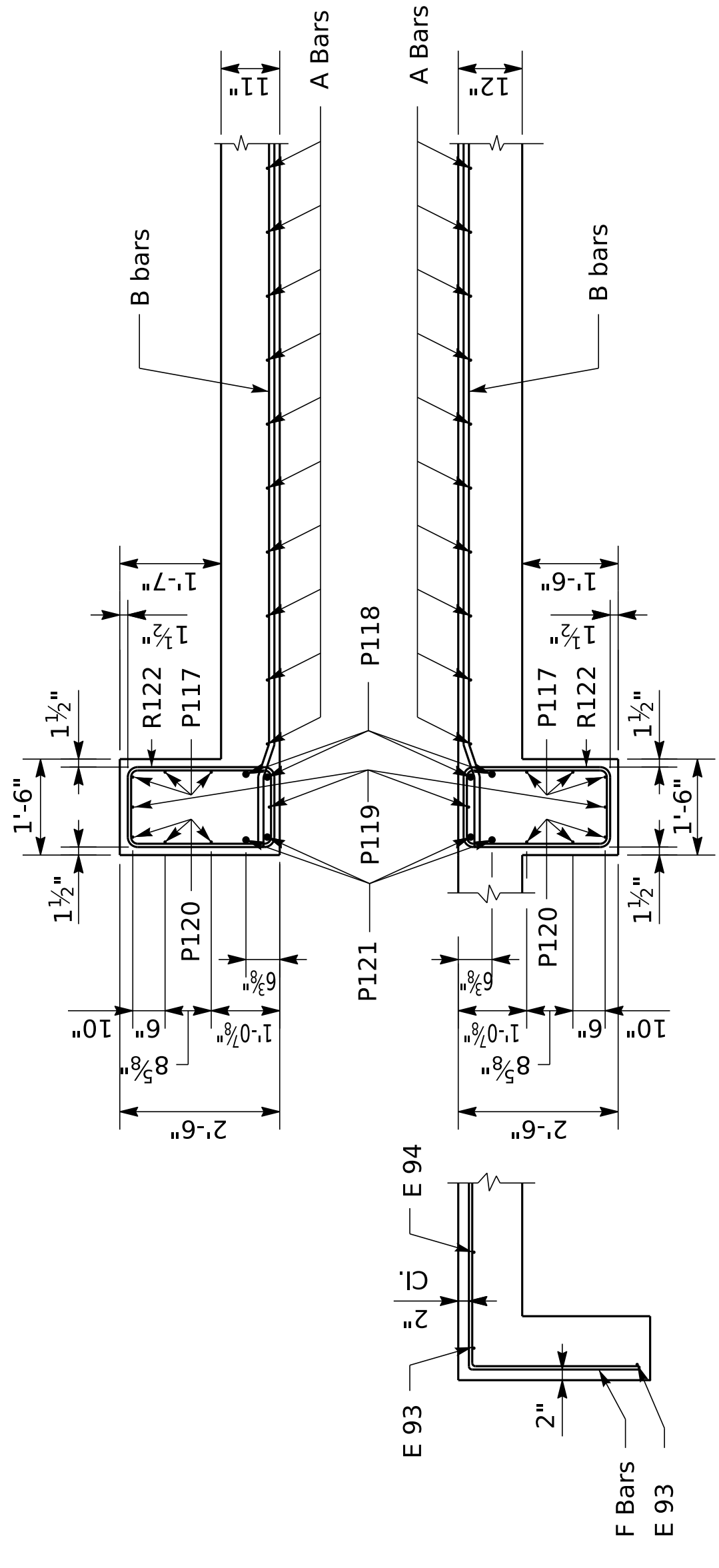


Section B-B (Wing B)
SCALE = 1:48

"C" 2-D83, 2-D84, 2-D85, 2-D86, 1-D87 @ 12" = 8'-0"
 "D" 2-D92, 2-D91, 2-D90, 2-D89, 1-D88 @ 12" = 8'-0"
 "E" G104-G107 @ 12" = 3'-0"
 "G" G108-G109 @ 12" = 1'-0"



FRONT VIEW
SCALE = 1:48



Section D-D
SCALE = 1:48



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS



REVISION

DATE

PREPARED BY
**Division of
Structural Design**

DATE: JANUARY 2024

DESIGNED BY:

DETAILED BY:

CHECKED BY

CROSSING

ROUTE

ITEM NO.
12-1162.00

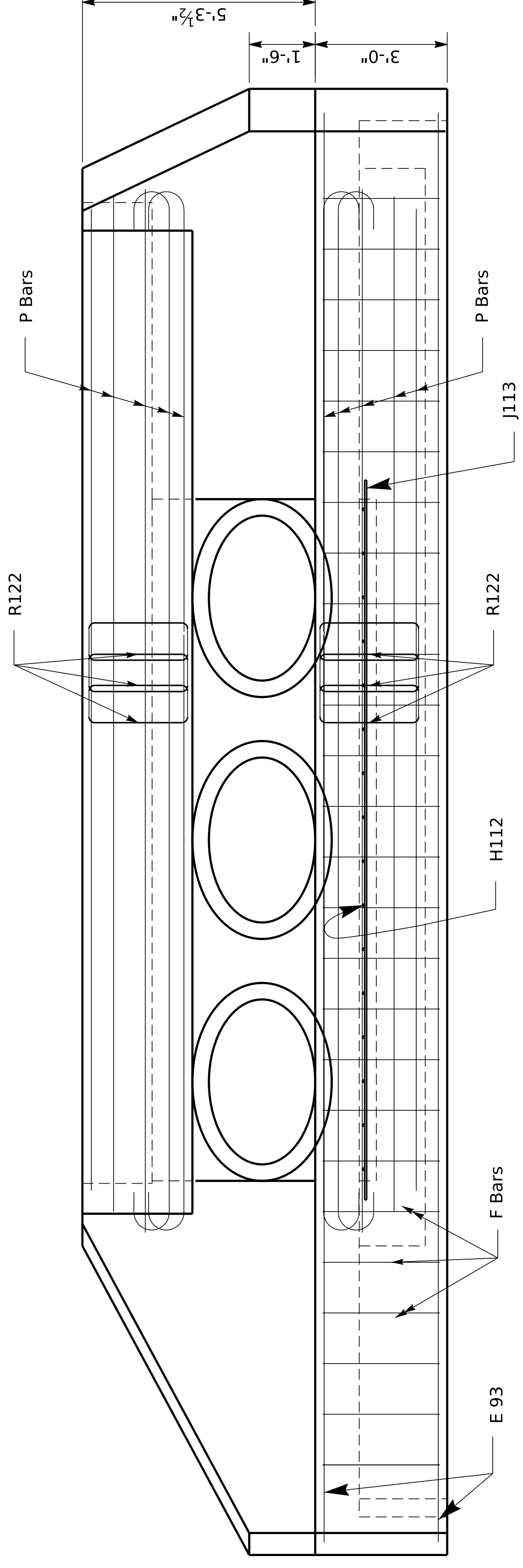
SHEET NO.

52

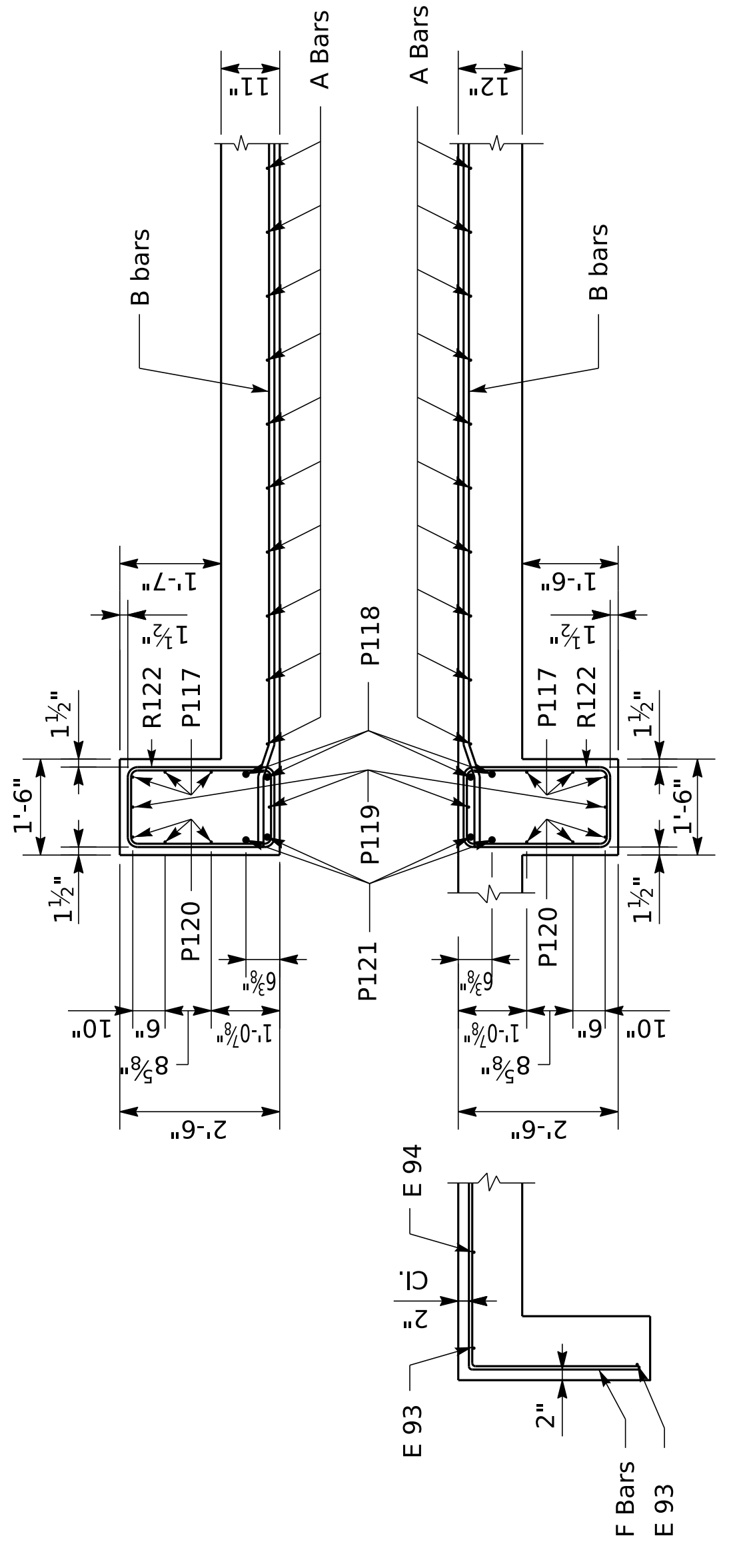
COUNTY OF

KNOTT

DRAWING NUMBER



FRONT VIEW
SCALE = 1:48



Section D-D
SCALE = 1:48

 COMMONWEALTH OF KENTUCKY DEPARTMENT OF HIGHWAYS	REVISION 	DATE 	PREPARED BY Division of Structural Design	DATE: JANUARY 2024 DESIGNED BY: DETAILED BY:	CHECKED BY 	ROUTE CROSSING	ITEM NO. 12-1162.00	COUNTY OF KNOTT
	USER: mressiah.bawithawr DATE PLOTTED: 2-FEB-2024 FILE NAME: j:\District\32\RS&M\12-162-headwall.dgn	SHEET NO. 52	DRAWING NUMBER					

ESTIMATE OF QUANTITIES

BID CODE	ITEM	QUANTITY	UNIT
8100	Class "A" Concrete	36.7	C.Y.
8150	Reinforcement	6220	Lb

BILL OF REINFORCEMENT

MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	A	B	C	D	MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	A	B	C	D	
A1	Str.	2	8	29-7	Top & Bottom Slabs					B64	Str.	2	5	6-1	Top & Bottom Slabs					
A2	Str.	2	8	26-10	Top & Bottom Slabs					B65	Str.	2	5	5-10	Top & Bottom Slabs					
A3	Str.	2	8	24-2	Top & Bottom Slabs					B66	Str.	2	5	5-7	Top & Bottom Slabs					
A4	Str.	2	8	21-5	Top & Bottom Slabs					B67	Str.	2	5	5-4	Top & Bottom Slabs					
A5	Str.	2	8	18-8	Top & Bottom Slabs					B68	Str.	2	5	5-2	Top & Bottom Slabs					
A6	Str.	2	8	15-11	Top & Bottom Slabs					B69	Str.	2	5	4-11	Top & Bottom Slabs					
A7	Str.	2	8	13-3	Top & Bottom Slabs					B70	Str.	2	5	4-8	Top & Bottom Slabs					
A8	Str.	2	8	10-6	Top & Bottom Slabs					B71	Str.	2	5	4-5	Top & Bottom Slabs					
A9	Str.	2	8	7-9	Top & Bottom Slabs					B72	Str.	2	5	4-2	Top & Bottom Slabs					
A10	Str.	2	8	5-0	Top & Bottom Slabs					B73	Str.	2	5	3-11	Top & Bottom Slabs					
B11	Str.	2	5	1-11	Top & Bottom Slabs					B74	Str.	2	5	3-8	Top & Bottom Slabs					
B12	Str.	2	5	2-4	Top & Bottom Slabs					B75	Str.	2	5	3-5	Top & Bottom Slabs					
B13	Str.	2	5	3-2	Top & Bottom Slabs					B76	Str.	2	5	3-2	Top & Bottom Slabs					
B14	Str.	2	5	3-7	Top & Bottom Slabs					B77	Str.	2	5	3-0	Top & Bottom Slabs					
B15	Str.	2	5	4-0	Top & Bottom Slabs					B78	Str.	2	5	2-9	Top & Bottom Slabs					
B16	Str.	2	5	4-5	Top & Bottom Slabs					B79	Str.	2	5	2-6	Top & Bottom Slabs					
B17	Str.	2	5	4-10	Top & Bottom Slabs					B80	Str.	2	5	2-3	Top & Bottom Slabs					
B18	Str.	2	5	5-3	Top & Bottom Slabs					B81	Str.	2	5	2-0	Top & Bottom Slabs					
B19	Str.	2	5	5-8	Top & Bottom Slabs					B82	Str.	2	5	9-1	Sidewall	4-3	5-0			
B20	Str.	2	5	6-1	Top & Bottom Slabs					B83	Str.	2	5	7-2	Wing A	2-3 1/2	5-0			
B21	Str.	2	5	6-11	Top & Bottom Slabs					B84	Str.	2	5	8-1	Wing A	3-2 3/4	5-0			
B22	Str.	2	5	6-11	Top & Bottom Slabs					B85	Str.	2	5	9-0	Wing A	4-1 1/4	5-0			
B23	Str.	2	5	7-4	Top & Bottom Slabs					B86	Str.	2	5	10-0	Wing A	5-1 1/8	5-0			
B24	Str.	2	5	7-4	Top & Bottom Slabs					B87	Str.	2	5	10-9	Wing A	5-10 1/2	5-0			
B25	Str.	2	5	8-2	Top & Bottom Slabs					B88	Str.	2	5	7-2	Wing B	2-3 3/4	5-0			
B26	Str.	2	5	8-7	Top & Bottom Slabs					B89	Str.	2	5	7-9	Wing B	2-10 3/4	5-0			
B27	Str.	2	5	8-7	Top & Bottom Slabs					D90	Str.	2	5	8-10	Wing B	3-11 3/8	5-0			
B28	Str.	2	5	9-0	Top & Bottom Slabs					D91	Str.	2	5	9-11	Wing B	5-0 3/8	5-0			
B29	Str.	2	5	9-5	Top & Bottom Slabs					D92	Str.	2	5	10-9	Wing B	5-10 1/2	5-0			
B30	Str.	2	5	9-10	Top & Bottom Slabs					E93	Str.	2	5	42-4	Apron					
B31	Str.	2	5	10-3	Top & Bottom Slabs					E94	Str.	1	5	40-3	Apron					
B32	Str.	2	5	10-8	Top & Bottom Slabs					E95	Str.	1	5	37-7	Apron					
B33	Str.	2	5	11-1	Top & Bottom Slabs					E96	Str.	1	5	34-10	Apron					
B34	Str.	2	5	11-6	Top & Bottom Slabs					E97	Str.	1	5	32-2	Apron					
B35	Str.	2	5	11-8	Top & Bottom Slabs					F98	Str.	5	21	5	9-6	Apron	7-0	2-8		
B36	Str.	2	5	12-3	Top & Bottom Slabs					F99	Str.	5	1	8-6	Apron	6-0	2-8			
B37	Str.	2	5	12-7	Top & Bottom Slabs					F100	Str.	5	1	8-0	Apron	5-6	2-8			
B38	Str.	2	5	12-4	Top & Bottom Slabs					F101	Str.	5	1	6-11	Apron	4-5	2-8			
B39	Str.	2	5	12-1	Top & Bottom Slabs					F102	Str.	5	1	5-10	Apron	3-4	2-8			
B40	Str.	2	5	11-10	Top & Bottom Slabs					F103	Str.	5	1	4-10	Apron	2-4	2-8			
B41	Str.	2	5	11-8	Top & Bottom Slabs					G104	Str.	1	5	9-1	Wing A					
B42	Str.	2	5	11-5	Top & Bottom Slabs					G105	Str.	1	5	7-8	Wing A					
B43	Str.	2	5	11-2	Top & Bottom Slabs					G106	Str.	1	5	5-6	Wing A					
B44	Str.	2	5	10-11	Top & Bottom Slabs					G107	Str.	1	5	3-4	Wing A					
B45	Str.	2	5	10-8	Top & Bottom Slabs					G108	Str.	1	5	32-9	Wing B/Sidewall					
B46	Str.	2	5	10-5	Top & Bottom Slabs					G109	Str.	1	5	31-6	Wing B/Sidewall					
B47	Str.	2	5	10-2	Top & Bottom Slabs					G110	Str.	1	5	7-6	Wing B					
B48	Str.	2	5	9-11	Top & Bottom Slabs					G111	Str.	1	5	4-9	Wing B					
B49	Str.	2	5	9-8	Top & Bottom Slabs					H112	Str.	17	5	0-9	Bottom Slab					
B50	Str.	2	5	9-5	Top & Bottom Slabs					J113	Str.	2	5	16-4	Bottom Slab					
B51	Str.	2	5	9-3	Top & Bottom Slabs					K114	Str.	3	5	9-1	Ftg Wing A					
B52	Str.	2	5	9-0	Top & Bottom Slabs					K115	Str.	1	5	32-3	Ftg Wing B					
B53	Str.	2	5	8-9	Top & Bottom Slabs					K116	Str.	2	5	32-9	Ftg Wing B					
B54	Str.	2	5	8-6	Top & Bottom Slabs					P117	Str.	6	5	31-5	B.F. Parapet End					
B55	Str.	2	5	8-3	Top & Bottom Slabs					P118	Str.	4	11	35-0	B.F. Parapet End					
B56	Str.	2	5	8-0	Top & Bottom Slabs					P119	Str.	4	5	32-7	M. Parapet End					
B57	Str.	2	5	7-9	Top & Bottom Slabs					P120	Str.	6	5	33-6	F.F. Parapet End					
B58	Str.	2	5	7-6	Top & Bottom Slabs					P121	Str.	1	4	37-1	F.F. Parapet End					
B59	Str.	2	5	7-4	Top & Bottom Slabs					R122	Str.	14	122	5	7-5	Parapet Wall				
B60	Str.	2	5	7-1	Top & Bottom Slabs					T123	Str.	2	5	8-11	Top of Wing A					
B61	Str.	2	5	6-10	Top & Bottom Slabs					T124	Str.	8	2	5	9-6	Top of Wing B				
B62	Str.	2	5	6-7	Top & Bottom Slabs															
B63	Str.	2	5	6-4	Top & Bottom Slabs															

BILL OF REINFORCEMENT

MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	A	B	C	D	MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	A	B	C	D	
B64	Str.	2	5	6-1	Top & Bottom Slabs					B64	Str.	2	5	6-1	Top & Bottom Slabs					
B65	Str.	2	5	5-10	Top & Bottom Slabs					B65	Str.	2	5	5-10	Top & Bottom Slabs					
B66	Str.	2	5	5-7	Top & Bottom Slabs					B66	Str.	2	5	5-7	Top & Bottom Slabs					
B67	Str.	2	5	5-4	Top & Bottom Slabs					B67	Str.	2	5	5-4	Top & Bottom Slabs					
B68	Str.	2	5	5-2	Top & Bottom Slabs					B68	Str.	2	5	5-2	Top & Bottom Slabs					
B69	Str.	2	5	4-11	Top & Bottom Slabs					B69	Str.	2	5	4-11	Top & Bottom Slabs					
B70	Str.	2	5	4-8	Top & Bottom Slabs					B70	Str.	2	5	4-8	Top & Bottom Slabs					
B71	Str.	2	5	4-5	Top & Bottom Slabs					B71	Str.	2	5	4-5	Top & Bottom Slabs					
B72	Str.	2	5	4-2	Top & Bottom Slabs					B72	Str.	2	5	4-2	Top & Bottom Slabs					
B73	Str.	2	5	3-11	Top & Bottom Slabs					B73	Str.	2	5	3-11	Top & Bottom Slabs					
B74	Str.	2	5	3-8	Top & Bottom Slabs					B74	Str.	2	5	3-8	Top & Bottom Slabs					
B75	Str.	2	5	3-5	Top & Bottom Slabs					B75	Str.	2	5	3-5	Top & Bottom Slabs					
B76	Str.	2	5	3-2	Top & Bottom Slabs					B76	Str.	2	5	3-2	Top & Bottom Slabs					
B77	Str.	2	5	3-0	Top & Bottom Slabs					B77	Str.	2	5	3-0	Top & Bottom Slabs					
B78	Str.	2	5	2-9	Top & Bottom Slabs					B78	Str.	2	5	2-9	Top & Bottom Slabs					
B79	Str.	2	5	2-6	Top & Bottom Slabs					B79	Str.	2	5	2-6	Top & Bottom Slabs					
B80	Str.	2	5	2-3	Top & Bottom Slabs					B80	Str.	2	5	2-3	Top & Bottom Slabs					
B81	Str.	2	5	2-0	Top & Bottom Slabs					B81	Str.	2	5	2-0	Top & Bottom Slabs					
B82	Str.	5	24	5	9-1	Sidewall				B82	Str.	5	24	5	9-1	Sidewall	4-3	5-0		
B83	Str.	5	2	5	7-2	Wing A				B83	Str.	5	2	5	7-2	Wing A	2-3 1/2	5-0		
B84	Str.	5	2	5	8-1	Wing A				B84	Str.	5	2	5	8-1	Wing A	3-2 3/4	5-0		
B85	Str.	5	2	5	9-0	Wing A				B85	Str.	5	2	5	9-0	Wing A	4-1 1/4	5-0		
B86	Str.	5	2	5	10-0	Wing A				B86	Str.	5	2	5	10-0	Wing A	5-1 1/8	5-0		
B87	Str.	5	1	5	10-9	Wing A				B87	Str.	5	1	5	10-9	Wing A	5-10 1/2	5-0		
B88	Str.	5	1	5	7-2	Wing B				B88	Str.	5	1	5	7-2	Wing B	2-3 3/4	5-0		
B89	Str.	5	2	5	7-9	Wing B				B89	Str.	5	2	5	7-9	Wing B	2-10 3/4	5-0		
D90	Str.	5	2	5	8-10	Wing B				D90	Str.	5	2	5	8-10	Wing B	3-11 3/8	5-0		
D91	Str.	5	2	5	9-11	Wing B		</												

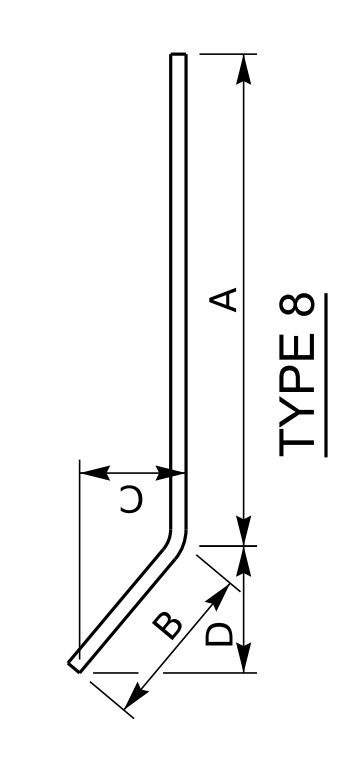
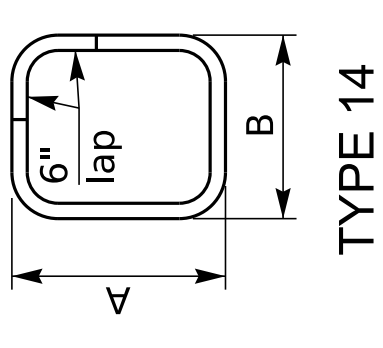
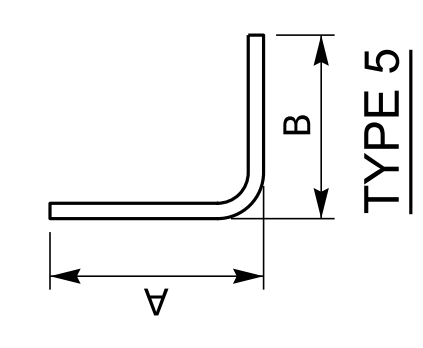
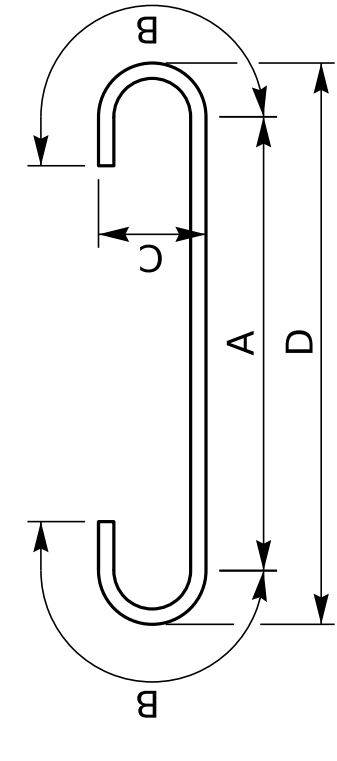
BILL OF REINFORCEMENT

BILL OF REINFORCEMENT

ESTIMATE OF QUANTITIES

BID CODE	ITEM	QUANTITY	UNIT
8100	Class "A" Concrete	36.7	C.Y.
8150	Reinforcement	6220	Lb

MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	A	B	C	D	MARK	TYPE	NO.	SIZE	LENGTH	LOCATION	A	B	C	D
A1	Str.	2	8	29-7	Top & Bottom Slabs					B64	Str.	2	5	6-1	Top & Bottom Slabs				
A2	Str.	2	8	26-10	Top & Bottom Slabs					B65	Str.	2	5	5-10	Top & Bottom Slabs				
A3	Str.	2	8	24-2	Top & Bottom Slabs					B66	Str.	2	5	5-7	Top & Bottom Slabs				
A4	Str.	2	8	21-5	Top & Bottom Slabs					B67	Str.	2	5	5-4	Top & Bottom Slabs				
A5	Str.	2	8	18-8	Top & Bottom Slabs					B68	Str.	2	5	5-2	Top & Bottom Slabs				
A6	Str.	2	8	15-11	Top & Bottom Slabs					B69	Str.	2	5	4-11	Top & Bottom Slabs				
A7	Str.	2	8	13-3	Top & Bottom Slabs					B70	Str.	2	5	4-8	Top & Bottom Slabs				
A8	Str.	2	8	10-6	Top & Bottom Slabs					B71	Str.	2	5	4-5	Top & Bottom Slabs				
A9	Str.	2	8	7-9	Top & Bottom Slabs					B72	Str.	2	5	4-2	Top & Bottom Slabs				
A10	Str.	2	8	5-0	Top & Bottom Slabs					B73	Str.	2	5	3-11	Top & Bottom Slabs				
B11	Str.	2	5	1-11	Top & Bottom Slabs					B74	Str.	2	5	3-8	Top & Bottom Slabs				
B12	Str.	2	5	2-4	Top & Bottom Slabs					B75	Str.	2	5	3-5	Top & Bottom Slabs				
B13	Str.	2	5	2-9	Top & Bottom Slabs					B76	Str.	2	5	3-2	Top & Bottom Slabs				
B14	Str.	2	5	3-2	Top & Bottom Slabs					B77	Str.	2	5	3-0	Top & Bottom Slabs				
B15	Str.	2	5	3-7	Top & Bottom Slabs					B78	Str.	2	5	2-9	Top & Bottom Slabs				
B16	Str.	2	5	4-0	Top & Bottom Slabs					B79	Str.	2	5	2-6	Top & Bottom Slabs				
B17	Str.	2	5	4-5	Top & Bottom Slabs					B80	Str.	2	5	2-3	Top & Bottom Slabs				
B18	Str.	2	5	4-10	Top & Bottom Slabs					B81	Str.	2	5	2-0	Top & Bottom Slabs				
B19	Str.	2	5	5-3	Top & Bottom Slabs					C82	5	24	5	9-1	Sidewall	4-3	5-0		
B20	Str.	2	5	5-8	Top & Bottom Slabs					D83	5	2	5	7-2	Wing A	2- 3½	5-0		
B21	Str.	2	5	6-1	Top & Bottom Slabs					D84	5	2	5	8-1	Wing A	3- 2½	5-0		
B22	Str.	2	5	6-6	Top & Bottom Slabs					D85	5	2	5	9-0	Wing A	4- 1½	5-0		
B23	Str.	2	5	6-11	Top & Bottom Slabs					D86	5	2	5	10-0	Wing A	5- 1½	5-0		
B24	Str.	2	5	7-4	Top & Bottom Slabs					D87	5	1	5	10-9	Wing A	5-10½	5-0		
B25	Str.	2	5	8-2	Top & Bottom Slabs					D88	5	1	5	7-2	Wing B	2- 3¾	5-0		
B26	Str.	2	5	8-2	Top & Bottom Slabs					D89	5	2	5	7-9	Wing B	2-10¾	5-0		
B27	Str.	2	5	8-7	Top & Bottom Slabs					D90	5	2	5	8-10	Wing B	3-11¾	5-0		
B28	Str.	2	5	9-0	Top & Bottom Slabs					D91	5	2	5	9-11	Wing B	5- 0¾	5-0		
B29	Str.	2	5	9-5	Top & Bottom Slabs					D92	5	2	5	10-9	Wing B	5-10½	5-0		
B30	Str.	2	5	9-10	Top & Bottom Slabs					E93	Str.	2	5	42-4	Apron				
B31	Str.	2	5	10-3	Top & Bottom Slabs					E94	Str.	1	5	40-3	Apron				
B32	Str.	2	5	10-8	Top & Bottom Slabs					E95	Str.	1	5	37-7	Apron				
B33	Str.	2	5	11-1	Top & Bottom Slabs					E96	Str.	1	5	34-10	Apron				
B34	Str.	2	5	11-6	Top & Bottom Slabs					E97	Str.	1	5	32-2	Apron				
B35	Str.	2	5	11-11	Top & Bottom Slabs					F98	5	21	5	9-6	Apron	7- 0	2-8		
B36	Str.	2	5	12-3	Top & Bottom Slabs					F99	5	1	5	8-6	Apron	6- 0	2-8		
B37	Str.	2	5	12-7	Top & Bottom Slabs					F100	5	1	5	8-0	Apron	5- 6	2-8		
B38	Str.	2	5	12-4	Top & Bottom Slabs					F101	5	1	5	6-11	Apron	4- 5	2-8		
B39	Str.	2	5	12-1	Top & Bottom Slabs					F102	5	1	5	5-10	Apron	3- 4	2-8		
B40	Str.	2	5	11-10	Top & Bottom Slabs					F103	5	1	5	4-10	Apron	2- 4	2-8		
B41	Str.	2	5	11-8	Top & Bottom Slabs					G104	Str.	1	5	9-1	Wing A				
B42	Str.	2	5	11-5	Top & Bottom Slabs					G105	Str.	1	5	7-8	Wing A				
B43	Str.	2	5	11-2	Top & Bottom Slabs					G106	Str.	1	5	5-6	Wing A				
B44	Str.	2	5	10-11	Top & Bottom Slabs					G107	Str.	1	5	3-4	Wing A				
B45	Str.	2	5	10-8	Top & Bottom Slabs					G108	Str.	1	5	32-9	Wing B/Sidewall				
B46	Str.	2	5	10-5	Top & Bottom Slabs					G109	Str.	1	5	31-6	Wing B/Sidewall				
B47	Str.	2	5	10-2	Top & Bottom Slabs					G110	Str.	1	5	7-6	Wing B				
B48	Str.	2	5	9-11	Top & Bottom Slabs					G111	Str.	1	5	4-9	Wing B				
B49	Str.	2	5	9-8	Top & Bottom Slabs					H112	Str.	17	5	0-9	Bottom Slab				
B50	Str.	2	5	9-5	Top & Bottom Slabs					J113	Str.	2	5	16-4	Bottom Slab				
B51	Str.	2	5	9-3	Top & Bottom Slabs					K114	Str.	3	5	9-1	Ftg Wing A				
B52	Str.	2	5	9-0	Top & Bottom Slabs					K115	Str.	1	5	32-3	Ftg Wing B				
B53	Str.	2	5	8-9	Top & Bottom Slabs					K116	Str.	2	5	32-9	Ftg Wing B				
B54	Str.	2	5	8-6	Top & Bottom Slabs					P117	Str.	6	5	31-5	B.F. Parapet End				
B55	Str.	2	5	8-3	Top & Bottom Slabs					P118	1	4	11	35-0	B.F. Parapet End	30- 2¼	2- 5	1- 2¾	31- 5
B56	Str.	2	5	8-0	Top & Bottom Slabs					P119	Str.	4	5	32-7	M. Parapet End				
B57	Str.	2	5	7-9	Top & Bottom Slabs					P120	Str.	6	5	33-6	F.F. Parapet End				
B58	Str.	2	5	7-6	Top & Bottom Slabs					P121	1	4	11	37-1	F.F. Parapet End	32- 3¼	2- 5	1- 2¾	33- 6
B59	Str.	2	5	7-4	Top & Bottom Slabs					R122	14	122	5	7-5	Parapet Wall	2- 3½	1- 3		
B60	Str.	2	5	7-1	Top & Bottom Slabs					T123	Str.	2	5	8-11	Top of Wing A				
B61	Str.	2	5	6-10	Top & Bottom Slabs					T124	8	2	5	9-6	Top of Wing B	7-10	1- 8	0- 9½	1- 5½
B62	Str.	2	5	6-7	Top & Bottom Slabs														
B63	Str.	2	5	6-4	Top & Bottom Slabs														



COMMONWEALTH OF KENTUCKY
DEPARTMENT OF HIGHWAYS

TEAM KENTUCKY

PREPARED BY: **Division of Structural Design**

DATE: JANUARY 2024

DESIGNED BY:

DETAILED BY:

FILE NAME: J:\Distr\12162\12162_headwall.dgn

REVISION

CHECKED BY:

CROSSING

ROUTE

ITEM NO. **12-162.00**

SHEET NO. **53**

COUNTY OF **KNOTT**

DRAWING NUMBER