



**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

August 14, 2019

CALL NO. 301
CONTRACT ID NO. 191232
ADDENDUM # 1

Subject: MUHLENBERG COUNTY, FD04 SPP 089 0062 016-018
Letting August 23, 2019

- (1) Added - Special Notes - Pages 208(a) - 208(c) of 225
- (2) Revised - Plan Sheets - R2B, R2C, R2F, and R2L

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

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

Sincerely,

A handwritten signature in cursive script that reads "Rachel Mills".

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

RM:mr
Enclosures



An Equal Opportunity Employer M/F/D

SPECIAL NOTE FOR LONGITUDINAL PAVEMENT JOINT ADHESIVE

- 1. DESCRIPTION. This specification covers the requirements and practices for applying an asphalt adhesive material to the longitudinal joint of the surface course of an asphalt pavement. Apply the adhesive to the face of longitudinal joint between driving lanes for the first lane paved. Then, place and compact the adjacent lane against the treated face to produce a strong, durable, waterproof longitudinal joint.
- 2. MATERIALS, EQUIPMENT, AND PERSONNEL.

2.1 Joint Adhesive. Provide material conforming to Subsection 2.1.1.

2.1.1 Provide an adhesive conforming to the following requirements:

Property	Specification	Test Procedure
Viscosity, 400 ° F (Pa·s)	4.0 – 10.0	ASTM D 4402
Cone Penetration, 77 ° F	60 – 100	ASTM D 5329
Flow, 140 ° F (mm)	5.0 max.	ASTM D 5329
Resilience, 77 ° F (%)	30 min.	ASTM D 5329
Ductility, 77 ° F (cm)	30.0 min.	ASTM D 113
Ductility, 39 ° F (cm)	30.0 min.	ASTM D 113
Tensile Adhesion, 77 ° F (%)	500 min.	ASTM D 5329, Type II
Softening Point, ° F	171 min.	AASHTO T 53
Asphalt Compatibility	Pass	ASTM D 5329

Ensure the temperature of the pavement joint adhesive is between 380 and 410 °F when the material is extruded in a 0.125-inch-thick band over the entire face of the longitudinal joint.

2.2. Equipment.

2.2.1 Melter Kettle. Provide an oil-jacketed, double-boiler, melter kettle equipped with any needed agitation and recirculating systems.

2.2.2 Applicator System. Provide a pressure-feed-wand applicator system with an applicator shoe attached.

2.3 Personnel. Ensure a technical representative from the manufacturer of the pavement joint adhesive is present during the initial construction activities and available upon the request of the Engineer.

3. CONSTRUCTION.

3.1 Surface Preparation. Prior to the application of the pavement joint adhesive, ensure the face of the longitudinal joint is thoroughly dry and free from dust or any other debris that would inhibit adhesion. Clean the joint face by the use of compressed air.

Ensure this preparation process occurs shortly before application to prevent the return of debris on the joint face.

3.2 Pavement Joint Adhesive Application. Ensure the ambient temperature is a minimum of 40 ° F during the application of the pavement joint adhesive. Prior to applying the adhesive, demonstrate competence in applying the adhesive according to this note to the satisfaction of the Engineer. Heat the adhesive in the melter kettle to the specified temperature range. Pump the adhesive from the melter kettle through the wand onto the vertical face of the cold joint. Apply the adhesive in a continuous band over the entire face of the longitudinal joint. Do not use excessive material in either thickness or location. Ensure the edge of the extruded adhesive material is flush with the surface of the pavement. Then, place and compact the adjacent lane against the joint face. Remove any excessive material extruded from the joint after compaction (a small line of material may remain).

3.3 Pavement Joint Adhesive Certification. Furnish the joint adhesive's certification to the Engineer stating the material conforms to all requirements herein prior to use.

3.4 Sampling and Testing. The Department will require a random sample of pavement joint adhesive from each manufacturer's lot of material. Extrude two 5 lb. samples of the heated material and forward the sample to the Division of Materials for testing. Reynolds oven bags, turkey size, placed inside small cardboard boxes or cement cylinder molds have been found suitable. Ensure the product temperature is 400°F or below at the time of sampling.

4. MEASUREMENT. The Department will measure the quantity of Pavement Joint Adhesive in linear feet. The Department will not measure for payment any extra materials, labor, methods, equipment, or construction techniques used to satisfy the requirements of this note. The Department will not measure for payment any trial applications of Pavement Joint Adhesive, the cleaning of the joint face, or furnishing and placing the adhesive. The Department will consider all such items incidental to the Pavement Joint Adhesive.
5. PAYMENT. The Department will pay for the Pavement Joint Adhesive at the Contract unit bid price and apply an adjustment for each manufacturer's lot of material based on the degree of compliance as defined in the following schedule. When a sample fails on two or more tests, the Department may add the deductions, but the total deduction will not exceed 100 percent.

Pavement Joint Adhesive Price Adjustment Schedule						
Test	Specification	100% Pay	90% Pay	80% Pay	50% Pay	0% Pay
Joint Adhesive Referenced in Subsection 2.1.1						
Viscosity, 400 ° F (Pa•s)			3.0-3.4	2.5-2.9	2.0-2.4	≤1.9
ASTM D 3236	4.0-10.0	3.5-10.5	10.6-11.0	11.1-11.5	11.6-12.0	≥ 12.1
Cone Penetration, 77 ° F			54-56	51-53	48-50	≤ 47
ASTM D 5329	60-100	57-103	104-106	107-109	110-112	≥ 113
Flow, 140 ° F (mm) ASTM D 5329	≤ 5.0	≤ 5.5	5.6-6.0	6.1-6.5	6.6-7.0	≥ 7.1
Resilience, 77 ° F (%) ASTM D 5329	≥ 30	≥ 28	26-27	24-25	22-23	≤ 21
Tensile Adhesion, 77 ° F (%) ASTM D 5329	≥ 500	≥ 490	480-489	470-479	460-469	≤ 459
Softening Point, ° F AASHTO T 53	≥ 171	≥ 169	166-168	163-165	160-162	≤ 159
Ductility, 77 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9
Ductility, 39 ° F (cm) ASTM D 113	≥ 30.0	≥ 29.0	28.0-28.9	27.0-27.9	26.0-26.9	≤ 25.9

Code
 20071EC

Pay Item
 Joint Adhesive

Pay Unit
 Linear Foot

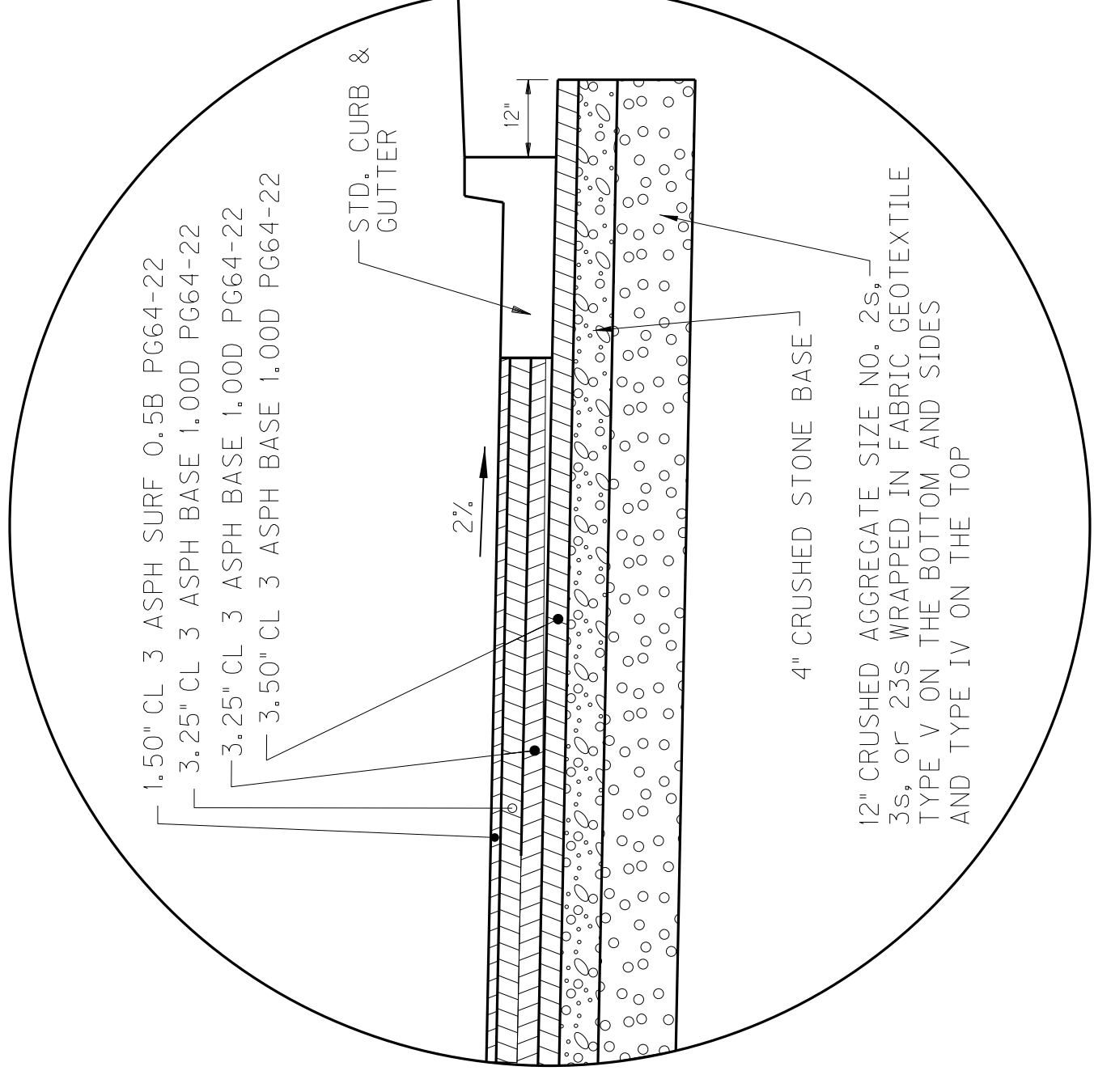
May 7, 2014

TYPICAL SECTIONS

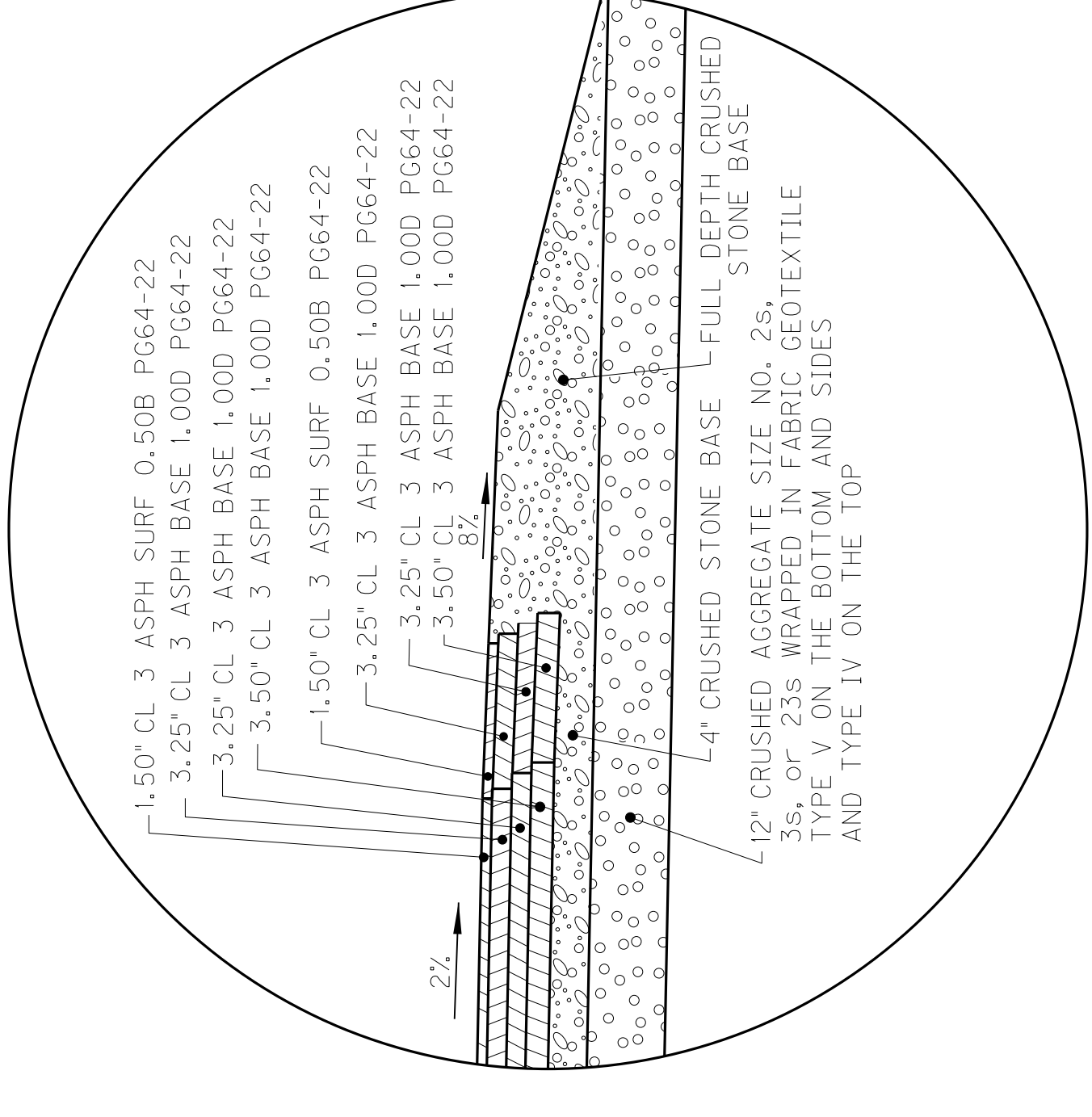
COUNTY OF	ITEM NO.	SHEET NO.
MUHLENBERG	2-8506.00	R2B

NOTE : FOR SLOPES BEYOND BERMS
SEE CROSS SECTIONS

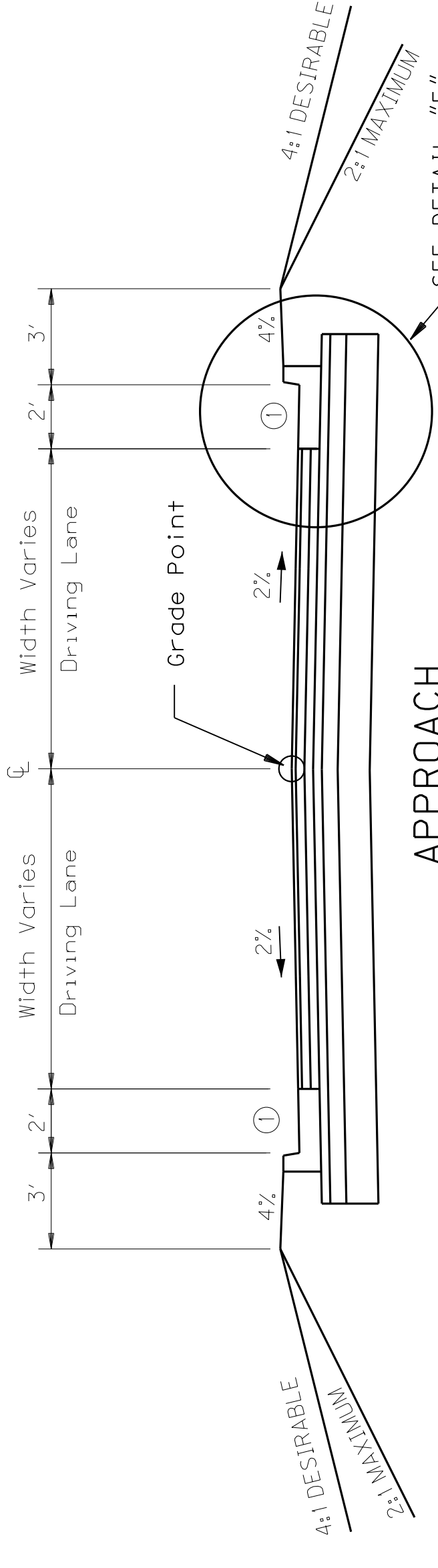
- ① STANDARD CURB & GUTTER (GUTTER CROSS SLOPE MATCHES PAVEMENT CROSS SLOPE)
- ② ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE TO RETARD VEGETATION GROWTH AND PREVENT EROSION



DETAIL "F"

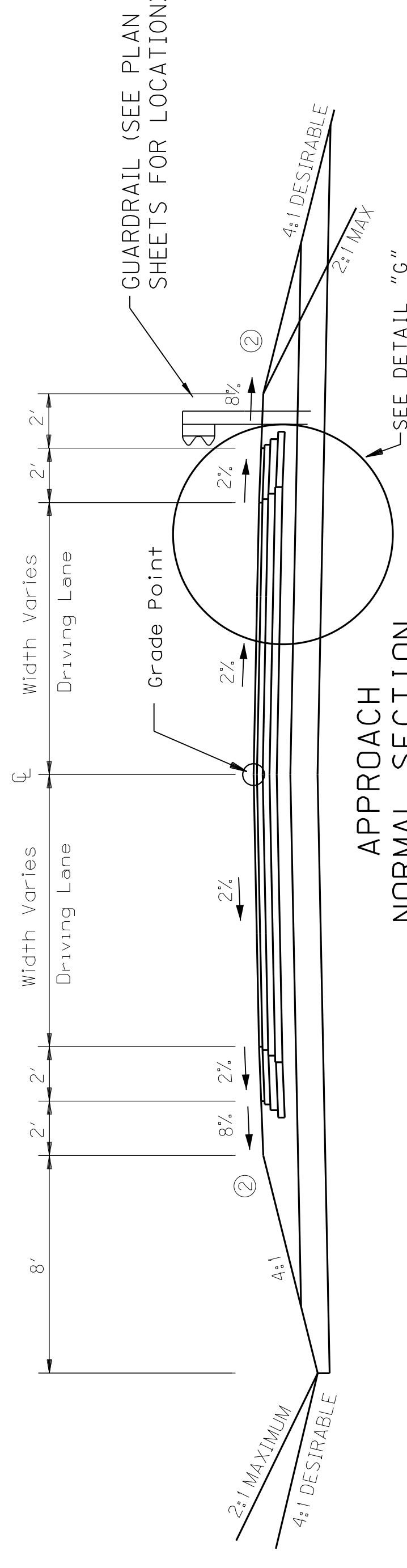


DETAIL "G"



APPROACH NORMAL SECTION

- HARRIS STREET (STA 2014+45.00 RT)
- GREEN VALLEY DRIVE (STA 2023+18.94 LT)
- MASSEY DRIVE (STA 2028+17.00 RT)
- CEDAR STREET (STA 2033+82.00 LT)
- SHADY LANE AVENUE (STA 2038+35.00 RT)
- POPLAR STREET (STA 2041+90.00 LT)
- KY 2103 / ASH STREET (STA 2045+71.00 LT)
- STRINGTOWN ROAD (STA 2045+65.00 RT)



APPROACH NORMAL SECTION

EAST 2ND AVENUE (STA 2064+72.29 LT)

APPROACH PAVEMENT DESIGN

- 1.50" SURFACE — 1.50" DEPTH CLASS 3 ASPHALT SURFACE 0.50B PG64-22
- 26.00" BASE — 3.25" DEPTH CLASS 3 ASPHALT BASE 1.00D PG64-22
6.75" DEPTH CLASS 3 ASPHALT BASE 1.00D PG64-22 (3.25" + 3.50")
4" COMPACTED DEPTH CRUSHED STONE BASE
12" CRUSHED AGGREGATE SIZE NO. 2s, 3s, or 23s WRAPPED IN FABRIC GEOTEXTILE TYPE V ON THE BOTTOM AND SIDES AND TYPE IV ON THE TOP

APPROACH SHOULDER PAVEMENT DESIGN

- 1.50" SURFACE — 1.50" DEPTH CLASS 3 ASPHALT SURFACE 0.50B PG64-22
- 26.00" BASE — 3.25" DEPTH CLASS 3 ASPHALT BASE 1.00D PG64-22
6.75" DEPTH CLASS 3 ASPHALT BASE 1.00D PG64-22 (3.25" + 3.50")
4" COMPACTED DEPTH CRUSHED STONE BASE
12" CRUSHED AGGREGATE SIZE NO. 2s, 3s, or 23s WRAPPED IN FABRIC GEOTEXTILE TYPE V ON THE BOTTOM AND SIDES AND TYPE IV ON THE TOP

ASPHALT MATERIAL FOR TACK - APPLIED AT A RATE OF 0.84 LB PER SQ. YD. OR AS DIRECTED BY ENGINEER - BETWEEN EACH COURSE

NOT TO SCALE

2.4LB/SY ASPHALT SEAL COAT (TWO APPLICATIONS)
20LB/SY ASPHALT SEAL AGGREGATE SIZE NO. 8 OR 9 (TWO APPLICATIONS)

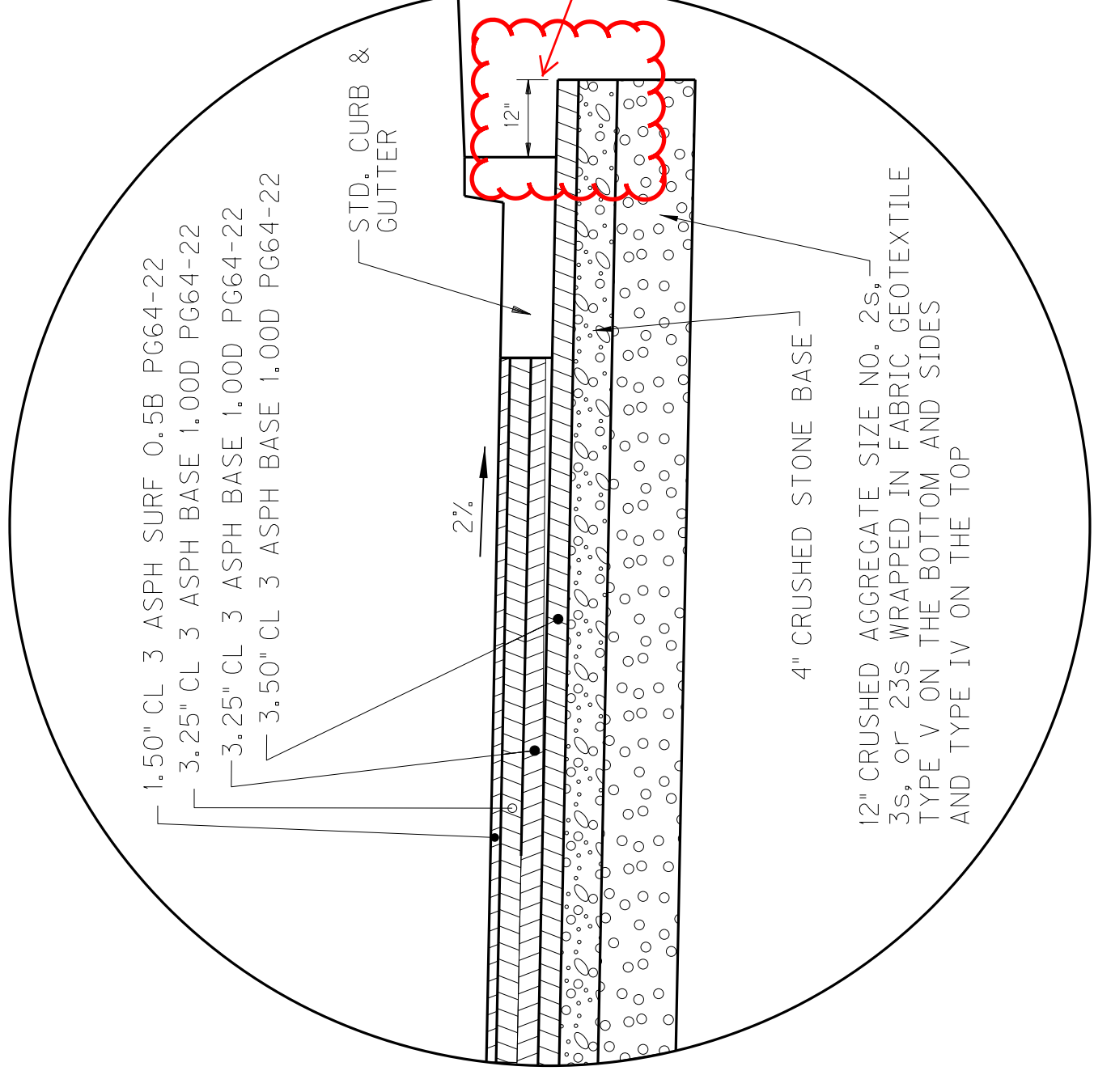
APPROACH TYPICAL SECTIONS

TYPICAL SECTIONS

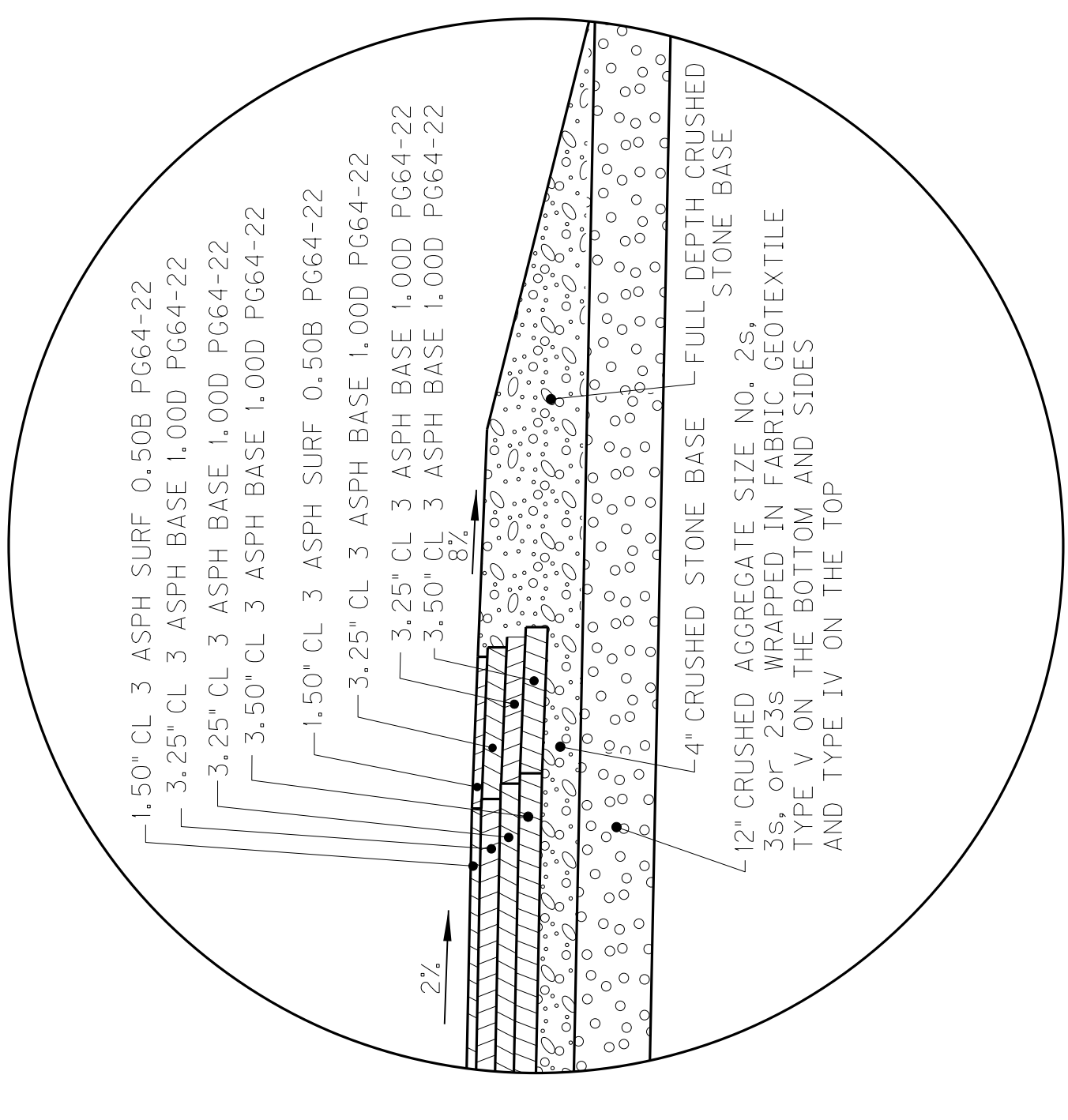
COUNTY OF	ITEM NO.	SHEET NO.
MUHLEBERG	2-8506.00	R2B

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SEE CROSS SECTIONS

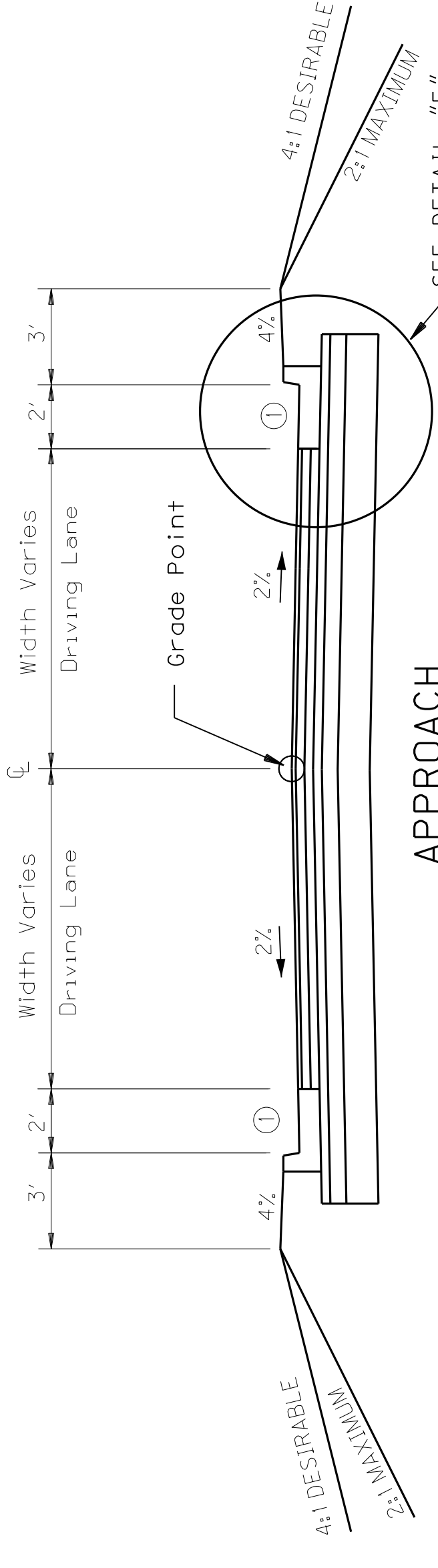
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DETAIL "F"

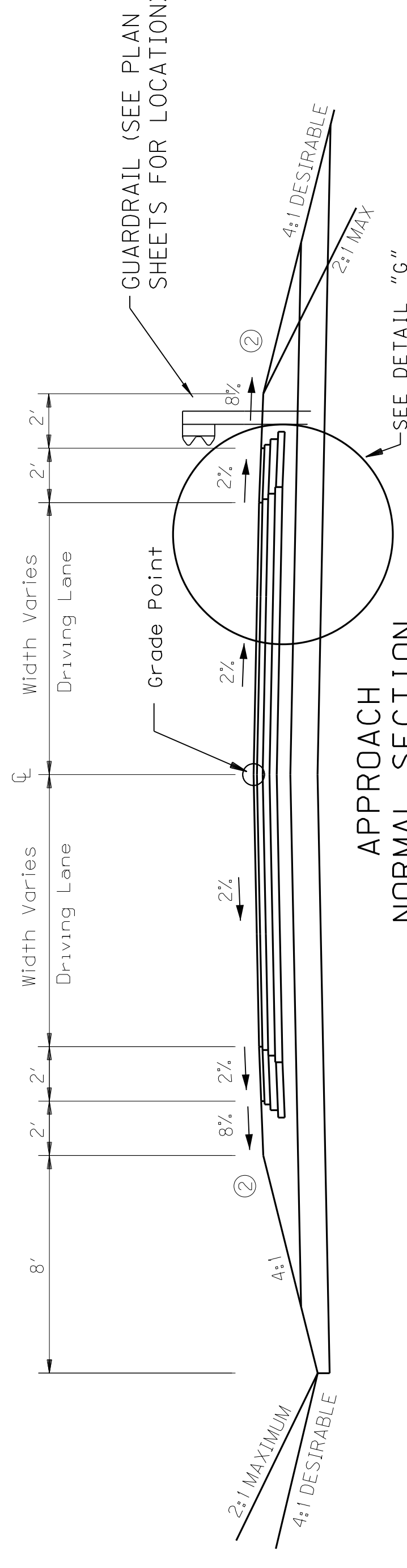


DETAIL "G"



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APPROACH NORMAL SECTION

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4" COMPACTED DEPTH CRUSHED STONE BASE
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4" COMPACTED DEPTH CRUSHED STONE BASE
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NOT TO SCALE

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20LB/SY ASPHALT SEAL AGGREGATE SIZE NO. 8 OR 9 (TWO APPLICATIONS)

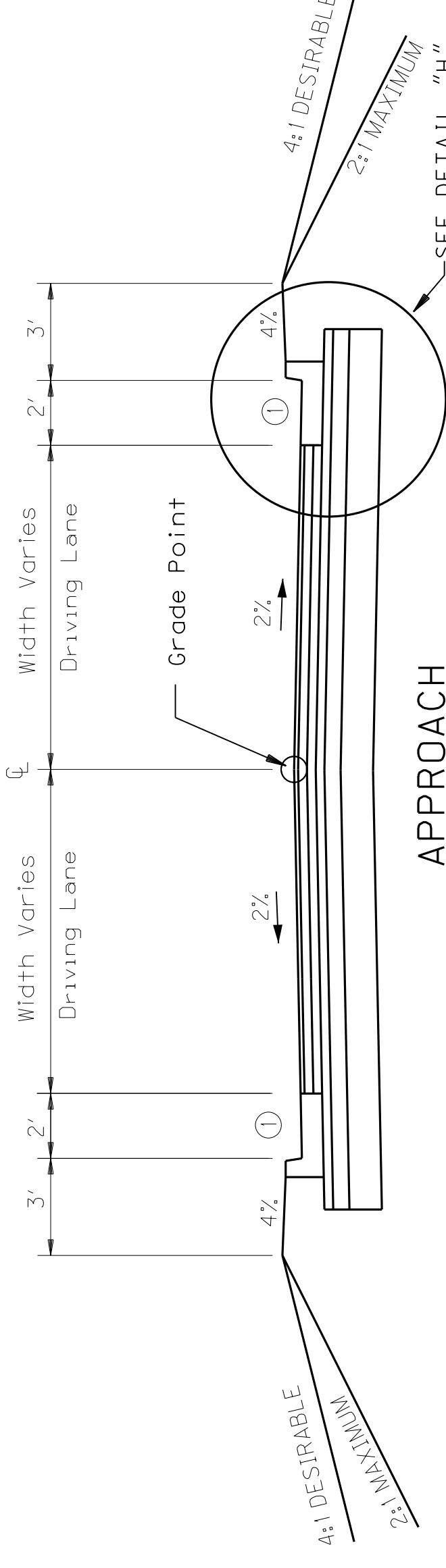
APPROACH TYPICAL SECTIONS

TYPICAL SECTIONS

COUNTY OF	ITEM NO.	SHEET NO.
MUHLEBERG	2-8506.00	R2C

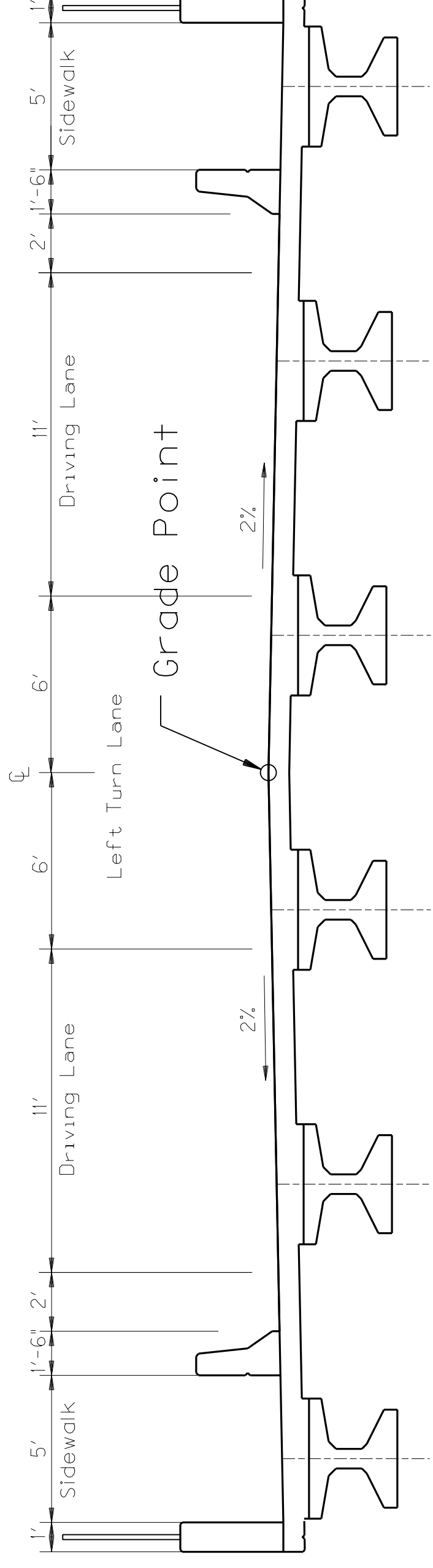
NOTE : FOR SLOPES BEYOND BERMS
SEE CROSS SECTIONS

① STANDARD CURB & GUTTER
(GUTTER CROSS SLOPE MATCHES
PAVEMENT CROSS SLOPE)



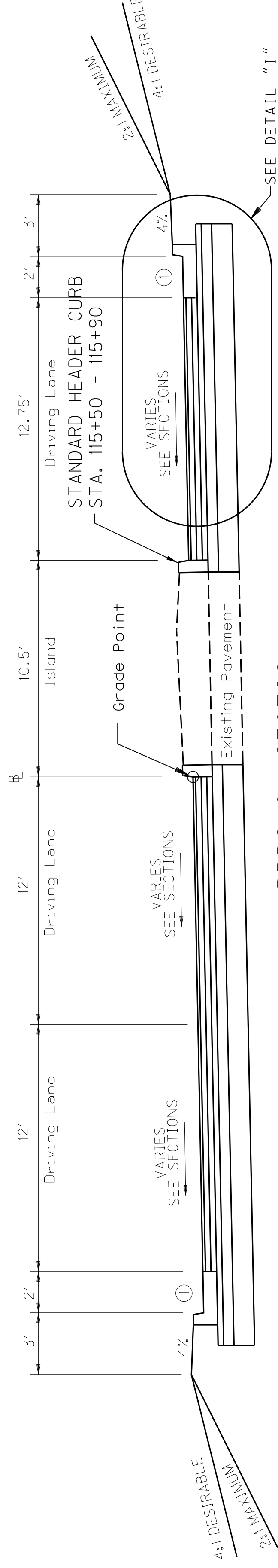
APPROACH
NORMAL SECTION

SOUTH 1ST STREET (STA 2072+97.47 LT)
FRUIT HILL ROAD (STA 2072+97.47 RT)



MAINLINE US 62
BRIDGE SECTION

STA 2067+68.01 - STA 2070+11.01



APPROACH SECTION

CLYDE (WEE) BROWN BLVD. (STA 2056+97.67 RT)

APPROACH PAVEMENT DESIGN

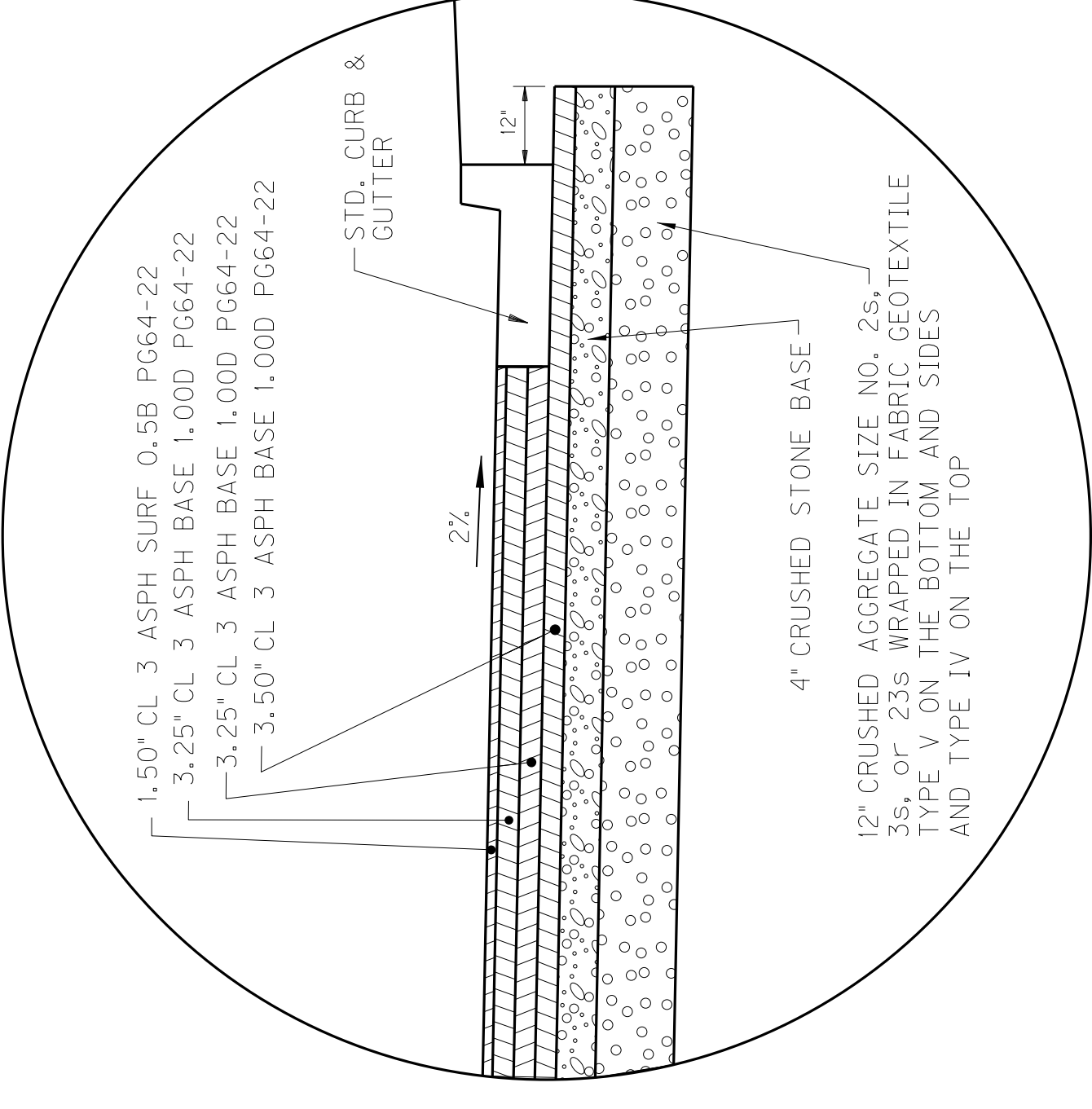
1.50" SURFACE — 1.50" DEPTH CLASS 3 ASPHALT SURFACE 0.50B PG64-22

3.25" DEPTH CLASS 3 ASPHALT BASE 1.000 PG64-22

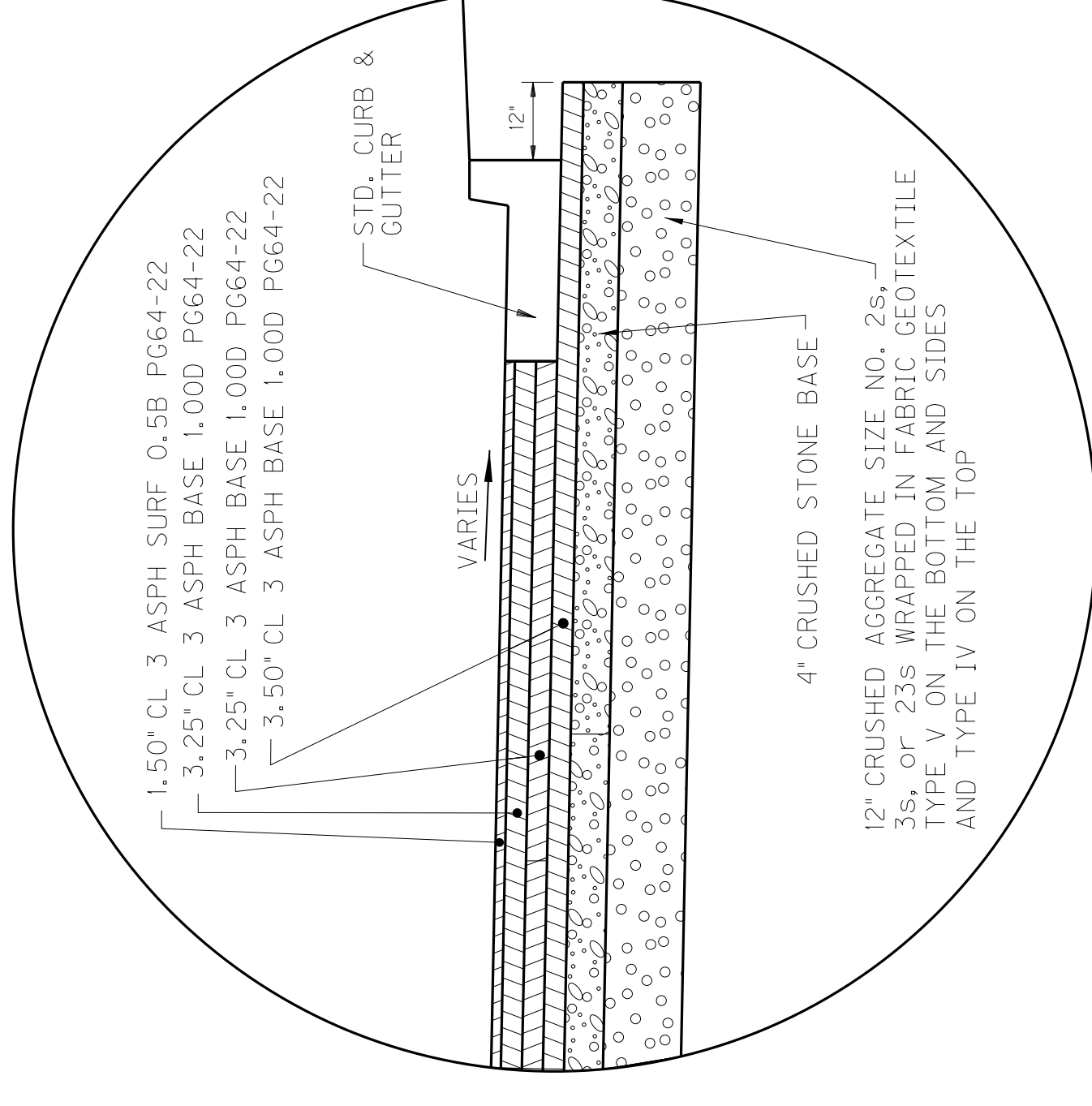
6.75" DEPTH CLASS 3 ASPHALT BASE 1.000 PG64-22 (3.25"+3.50")

4" COMPACTED DEPTH CRUSHED STONE BASE

12" CRUSHED AGGREGATE SIZE NO. 2s, 3s, or 23s WRAPPED IN FABRIC GEOTEXTILE
TYPE V ON THE BOTTOM AND SIDES AND TYPE IV ON THE TOP



DETAIL "H"



DETAIL "I"

NOT TO SCALE

ASPHALT MATERIAL FOR TACK - APPLIED AT A
RATE OF 0.84 LB PER SQ. YD. OR AS DIRECTED
BY ENGINEER - BETWEEN EACH COURSE

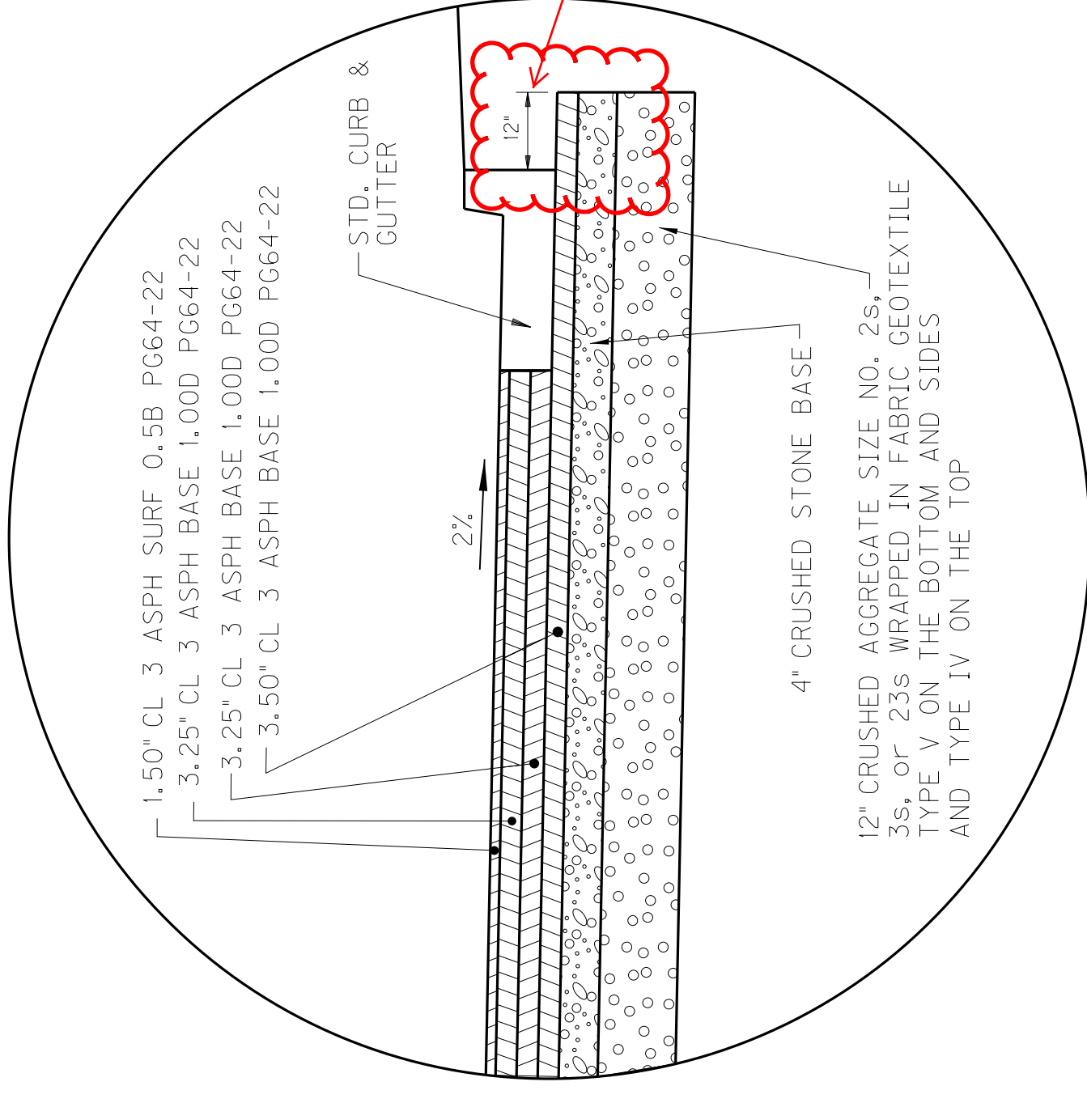
APPROACH TYPICAL SECTIONS

TYPICAL SECTIONS

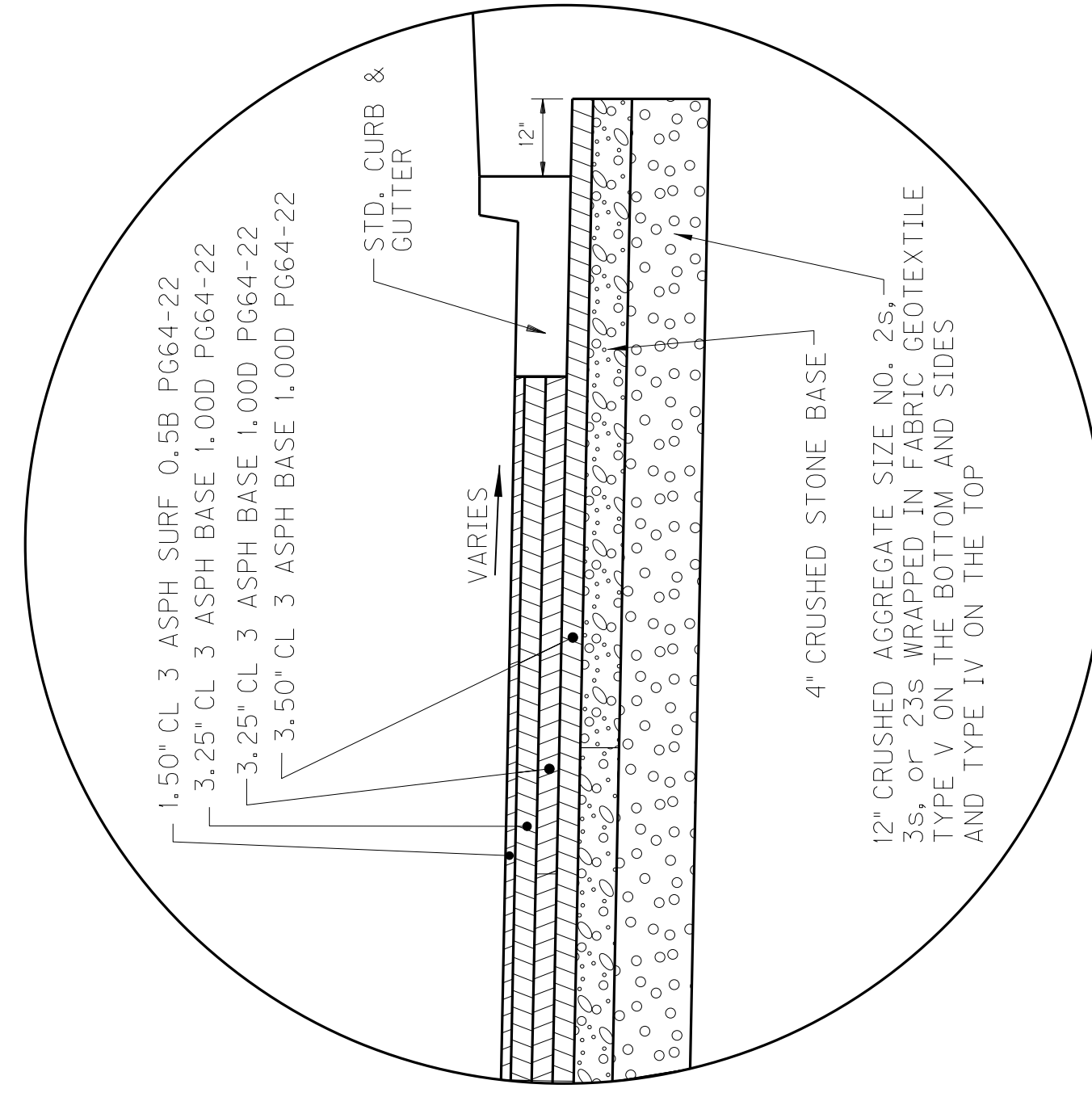
COUNTY OF	ITEM NO.	SHEET NO.
MUHLEBERG	2-8506.00	R2C

NOTE : FOR SLOPES BEYOND BERMS
SEE CROSS SECTIONS

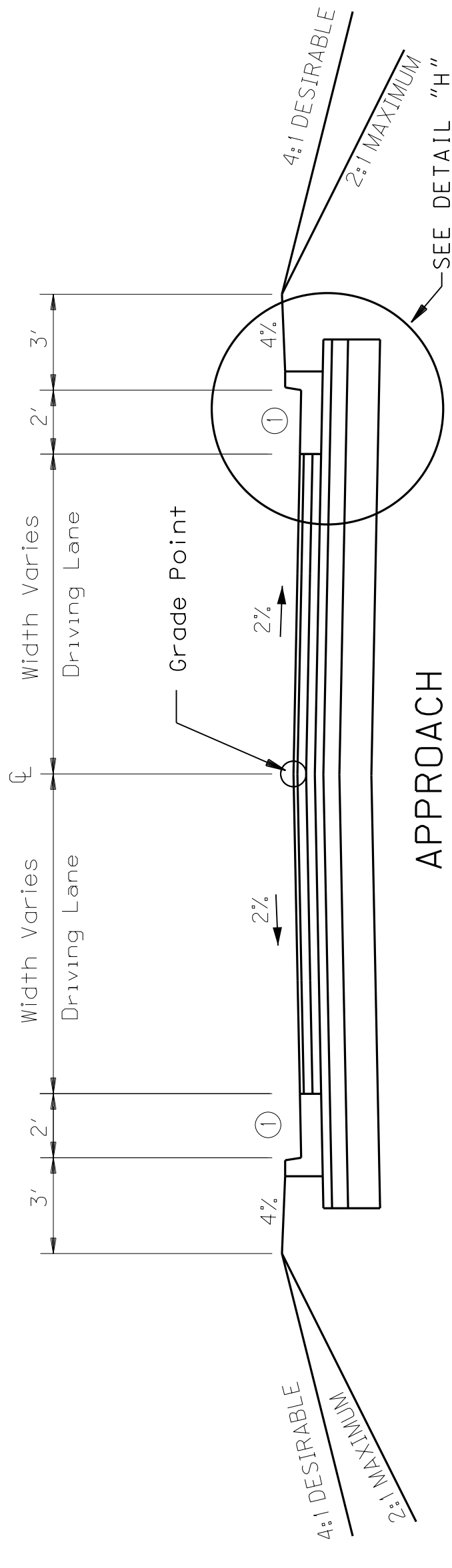
① STANDARD CURB & GUTTER
(GUTTER CROSS SLOPE MATCHES
PAVEMENT CROSS SLOPE)



DETAIL "H"

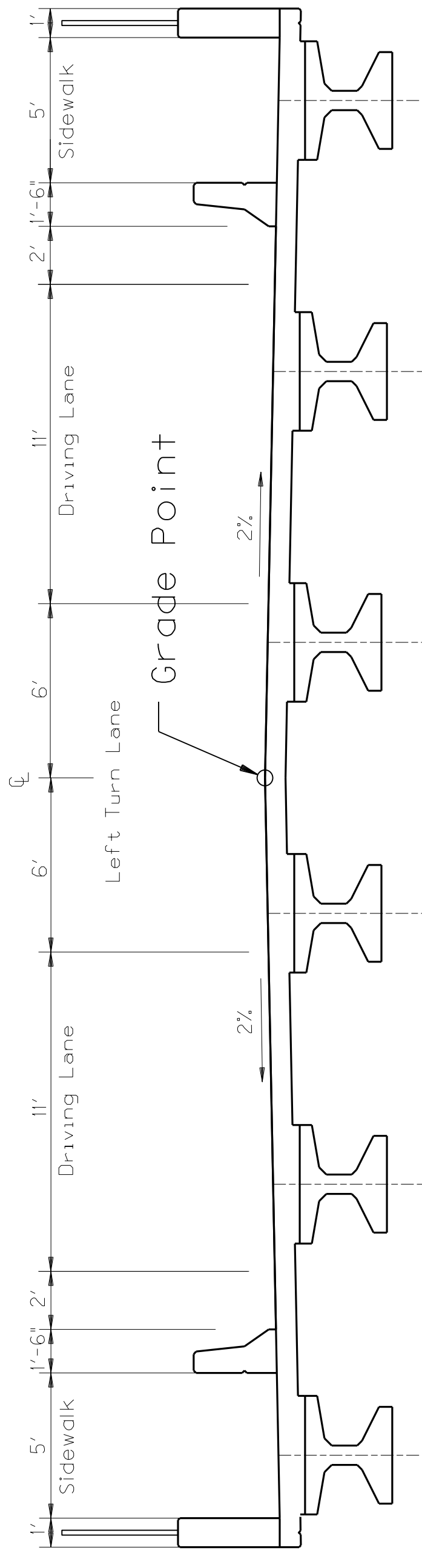


DETAIL "I"



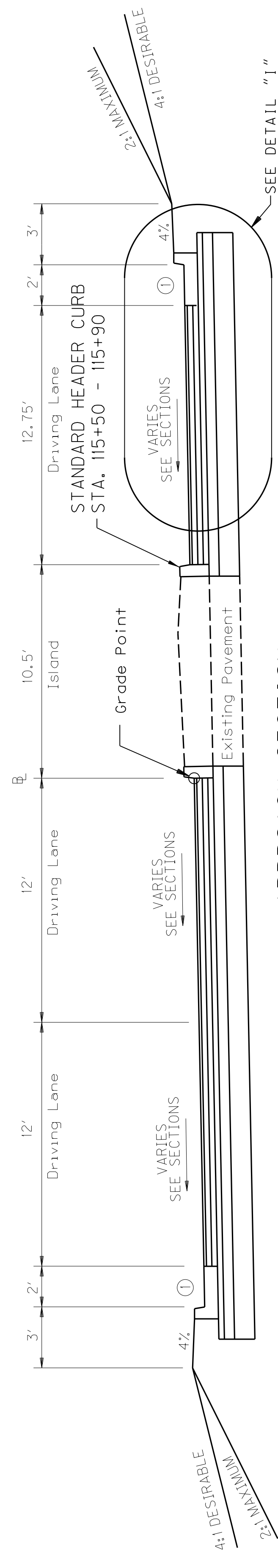
APPROACH
NORMAL SECTION

SOUTH 1ST STREET (STA 2072+97.47 LT)
FRUIT HILL ROAD (STA 2072+97.47 RT)



MAINLINE US 62
BRIDGE SECTION

STA 2067+68.01 - STA 2070+11.01



APPROACH SECTION

CLYDE (WEE) BROWN BLVD. (STA 2056+97.67 RT)

APPROACH PAVEMENT DESIGN

1.50" SURFACE — 1.50" DEPTH CLASS 3 ASPHALT SURFACE 0.50B PG64-22

3.25" DEPTH CLASS 3 ASPHALT BASE 1.00D PG64-22

6.75" DEPTH CLASS 3 ASPHALT BASE 1.00D PG64-22 (3.25"+3.50")

4" COMPACTED DEPTH CRUSHED STONE BASE

12" CRUSHED AGGREGATE SIZE NO. 2s, 3s, or 23s WRAPPED IN FABRIC GEOTEXTILE
TYPE V ON THE BOTTOM AND SIDES AND TYPE IV ON THE TOP

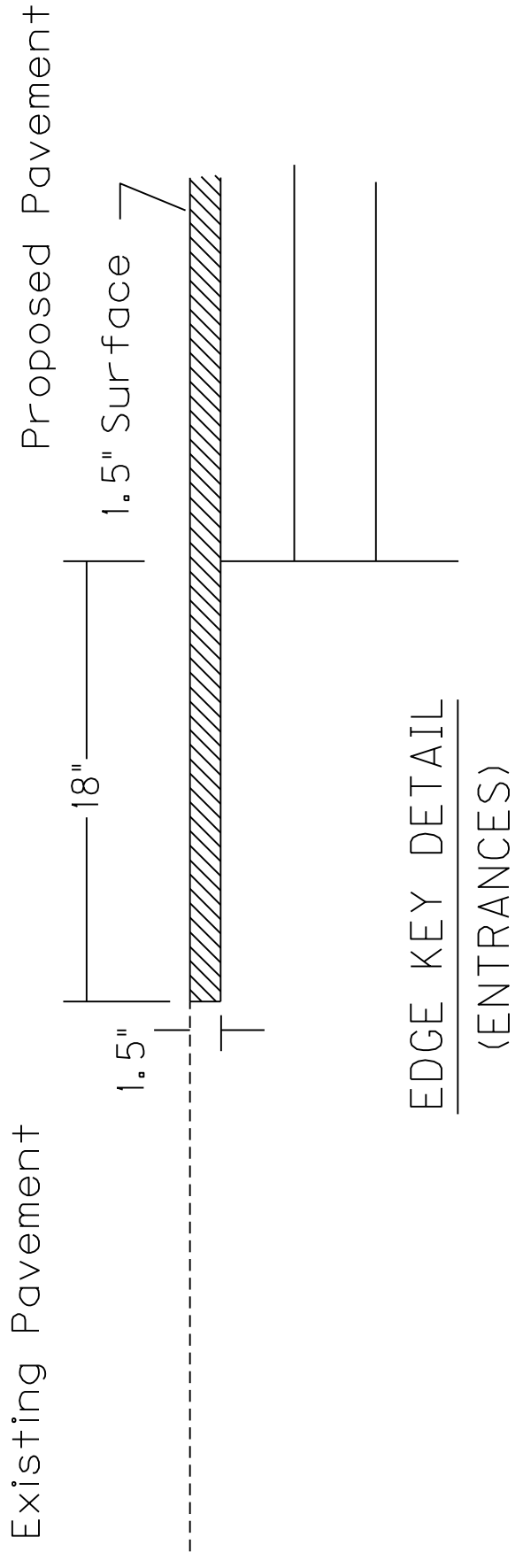
NOT TO SCALE

APPROACH TYPICAL SECTIONS

ASPHALT MATERIAL FOR TACK - APPLIED AT A
RATE OF 0.84 LB PER SQ. YD. OR AS DIRECTED
BY ENGINEER - BETWEEN EACH COURSE

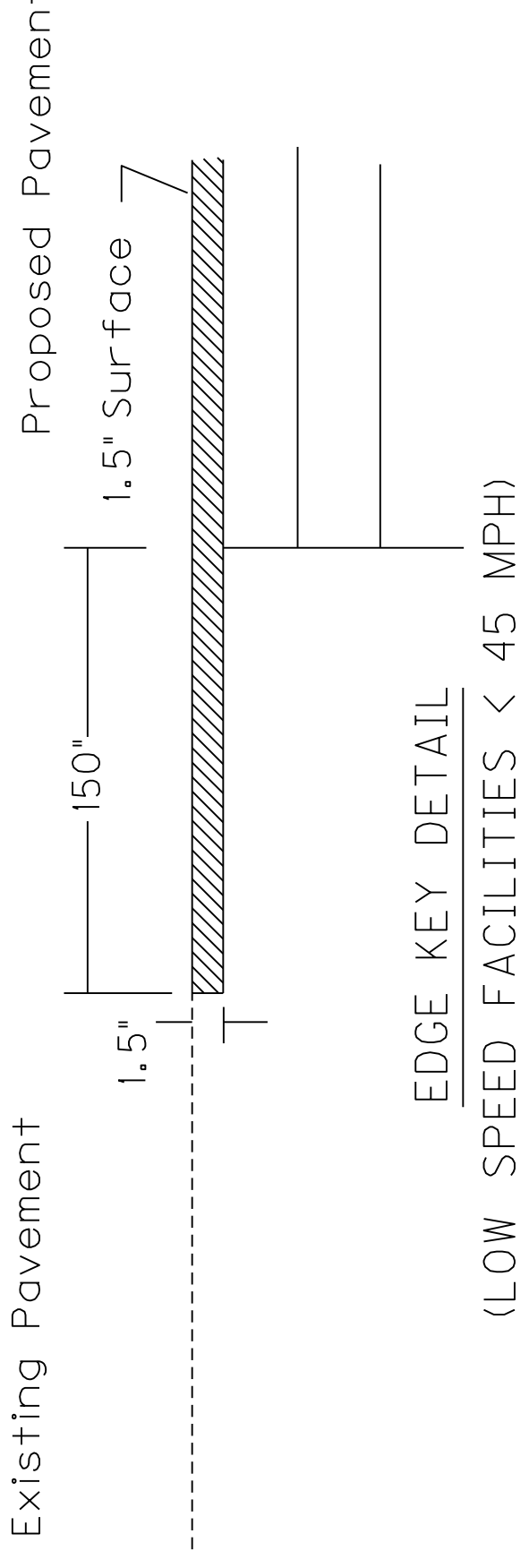
TYPICAL SECTIONS

COUNTY OF	ITEM NO.	SHEET NO.
MUHLEBERG	2-8506.00	R2F



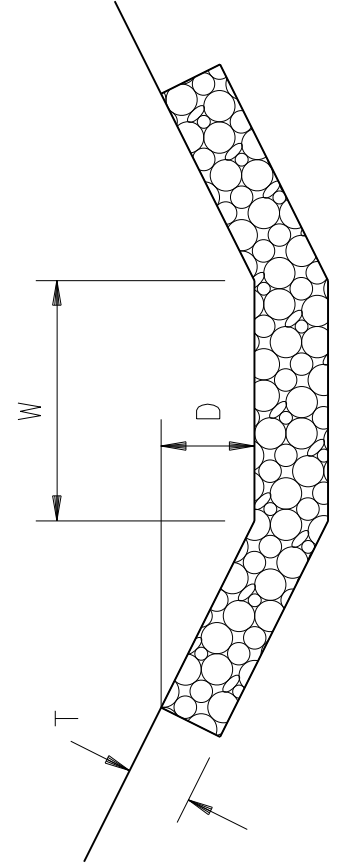
EDGE KEY DETAIL
(ENTRANCES)

Work under this item shall include cutting out the existing bituminous surface to a minimum depth and width as shown, so the new surface may heel into the existing surface. The contract unit price bid per linear foot for "EDGE KEY" shall include all necessary materials, labor, equipment, etc. to perform the work and dispose of the bituminous material removed.



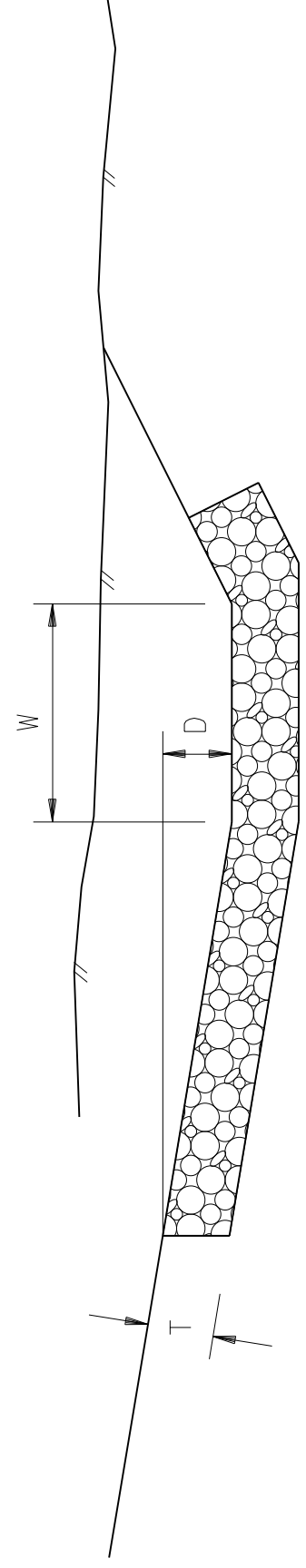
EDGE KEY DETAIL
(LOW SPEED FACILITIES < 45 MPH)

Work under this item shall include cutting out the existing bituminous surface to a minimum depth and width as shown, so the new surface may heel into the existing surface. The contract unit price bid per linear foot for "EDGE KEY" shall include all necessary materials, labor, equipment, etc. to perform the work and dispose of the bituminous material removed.



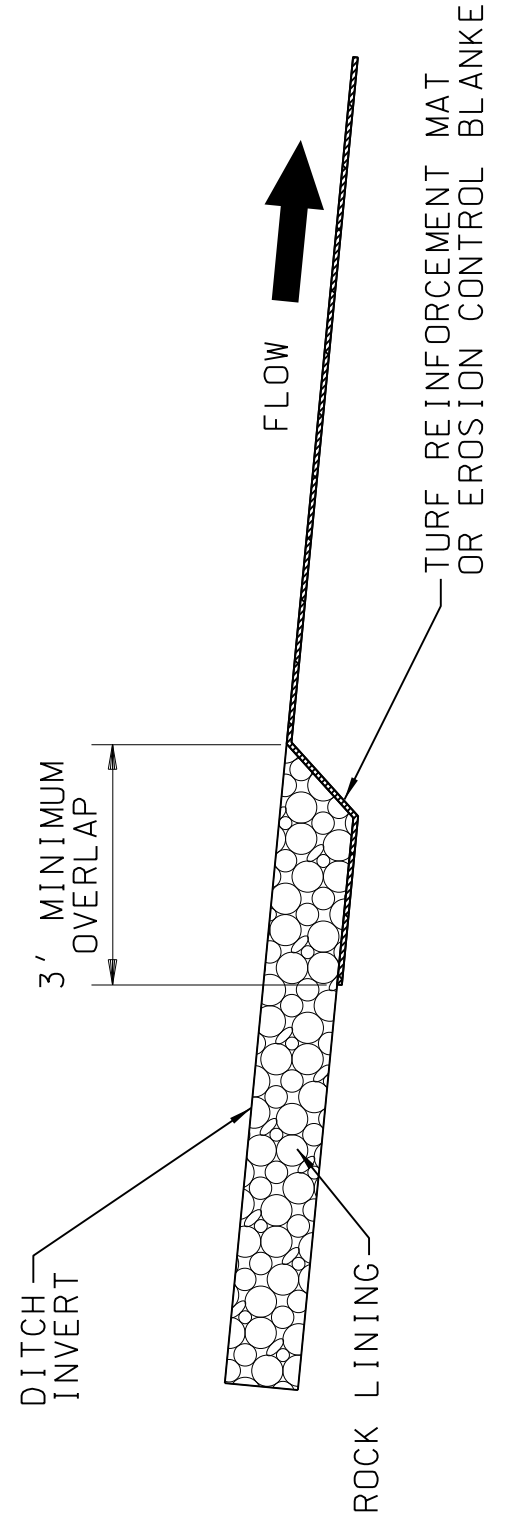
D = DEPTH TO PROTECT
T = THICKNESS (ROCK LINING)
W = WIDTH

TYPICAL SURFACE
DITCH SECTION

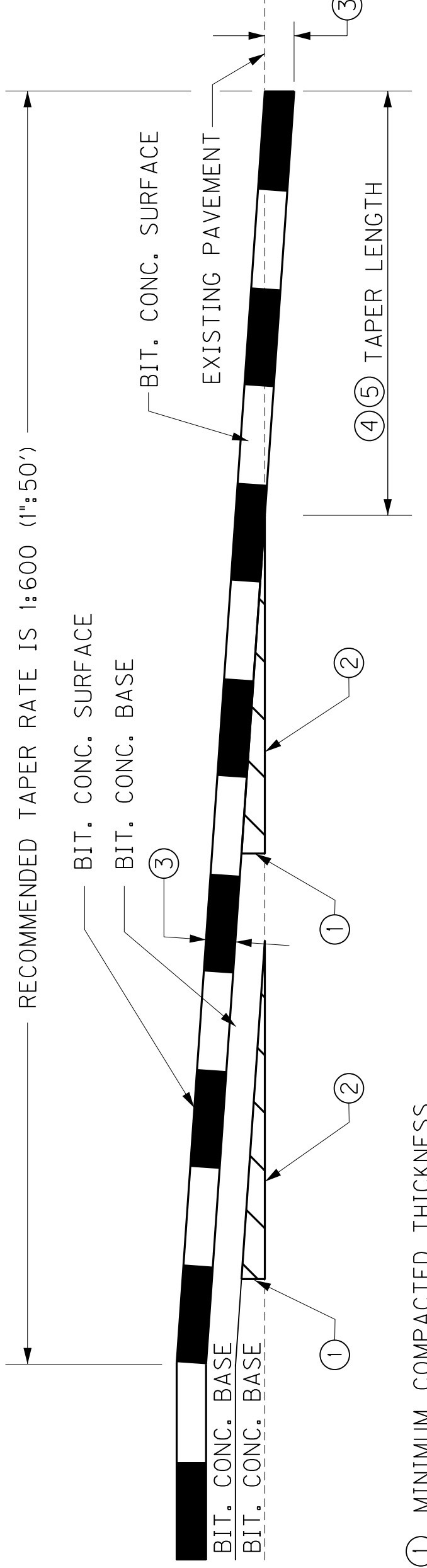


D = DEPTH TO PROTECT
T = THICKNESS (ROCK LINING)
W = DITCH WIDTH

TYPICAL ROADWAY DITCH
(NORMAL AND SPECIAL DITCH)



CHANNEL LINING
OVERLAP DETAIL



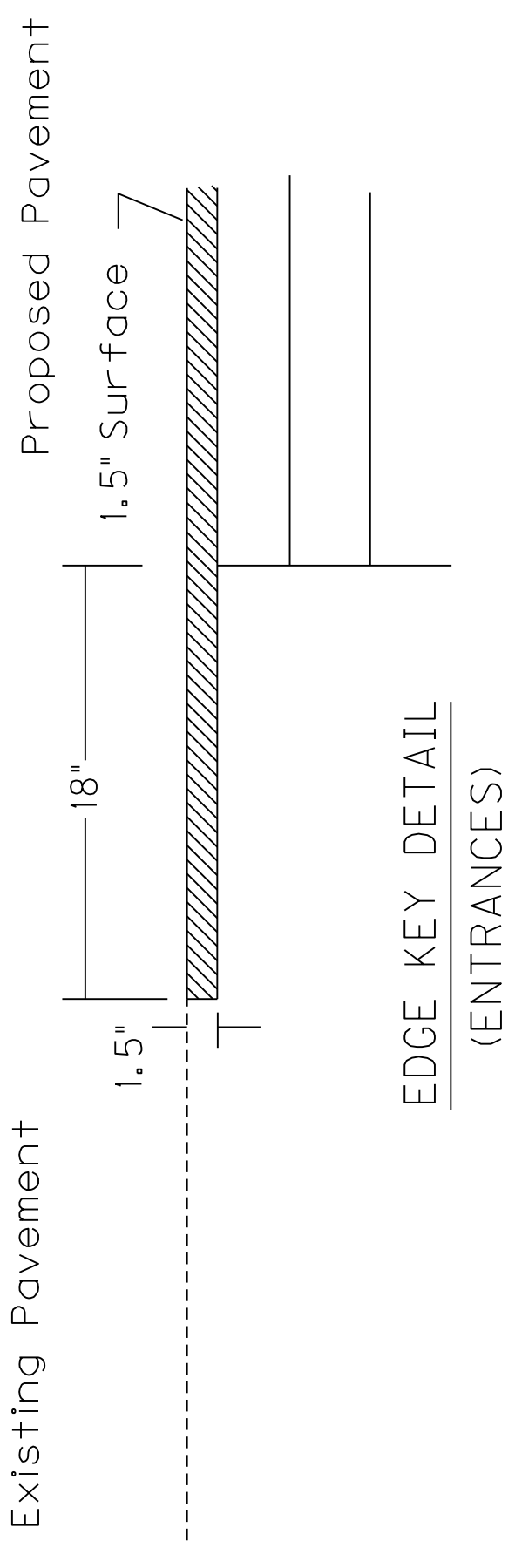
- ① MINIMUM COMPACTED THICKNESS
- ② BIT. MIX FOR LEVEL & WEDGING OR NEXT COURSE OF BIT. MIX.
- ③ BIT. SURFACE THICKNESS (FULL DEPTH)
- ④ MILL EXISTING PAVEMENT TO RECEIVE BIT. SURFACE FULL DEPTH (EDGE KEY).
- ⑤ TAPER LENGTH (ft) = $\frac{t}{r} \times 12$

FOR A TAPER RATE OF 1:600 (1" = 50')
TAPER LENGTH = 62.5 FEET WHEN t = 1.25 INCHES
TAPER LENGTH = 75 FEET WHEN t = 1.5 INCHES

TAPERING OF OVERLAYS ON MEDIUM SPEED FACILITIES (45 MPH to 65 MPH)

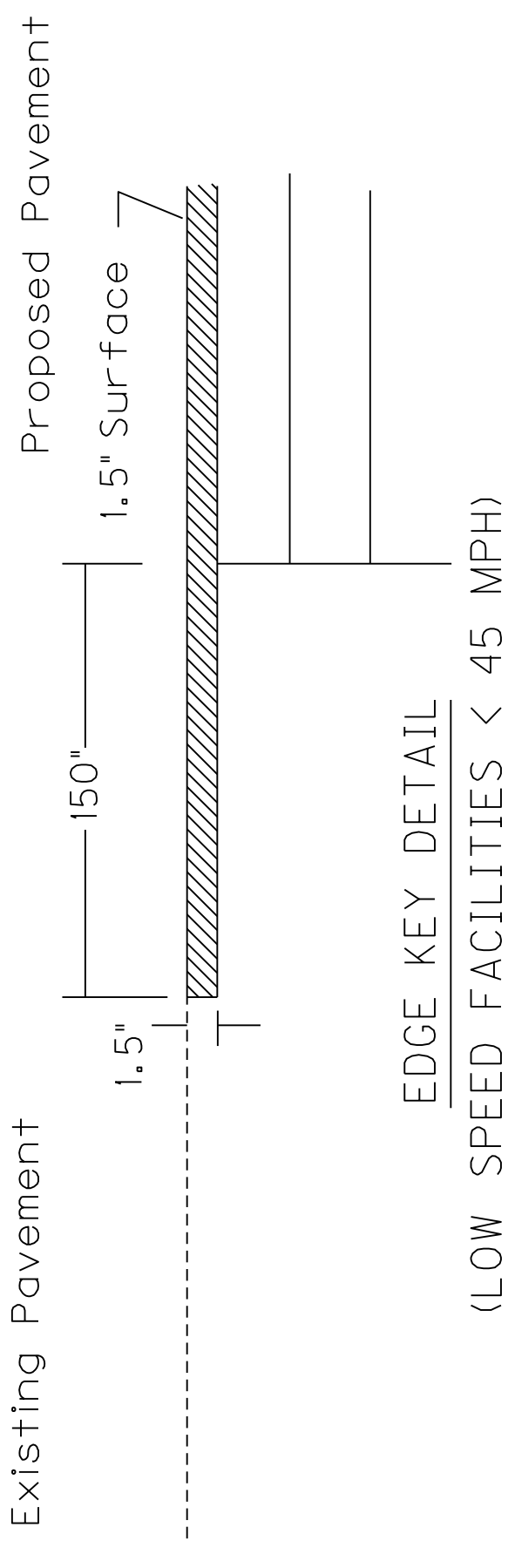
TYPICAL SECTIONS

COUNTY OF	ITEM NO.	SHEET NO.
MUHLEBERG	2-8506.00	R2F



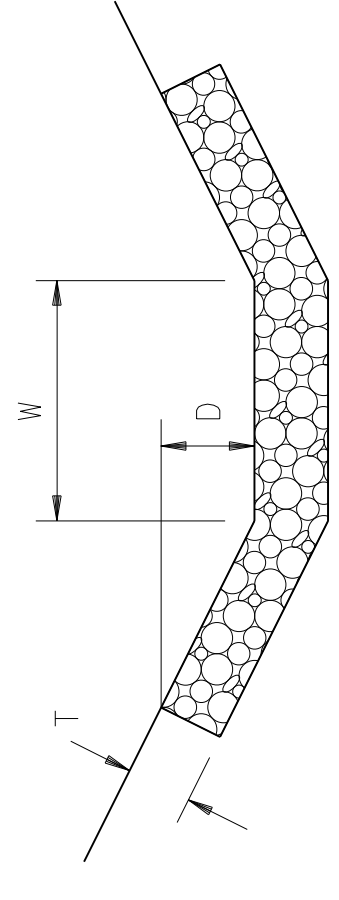
EDGE KEY DETAIL
(ENTRANCES)

Work under this item shall include cutting out the existing bituminous surface to a minimum depth and width as shown, so the new surface may heel into the existing surface. The contract unit price bid per linear foot for "EDGE KEY" shall include all necessary materials, labor, equipment, etc. to perform the work and dispose of the bituminous material removed.



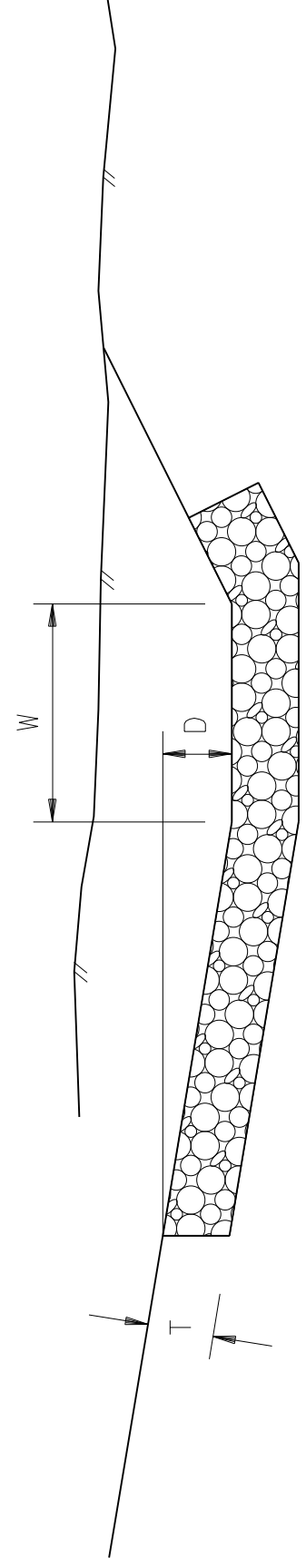
EDGE KEY DETAIL
(LOW SPEED FACILITIES < 45 MPH)

Work under this item shall include cutting out the existing bituminous surface to a minimum depth and width as shown, so the new surface may heel into the existing surface. The contract unit price bid per linear foot for "EDGE KEY" shall include all necessary materials, labor, equipment, etc. to perform the work and dispose of the bituminous material removed.



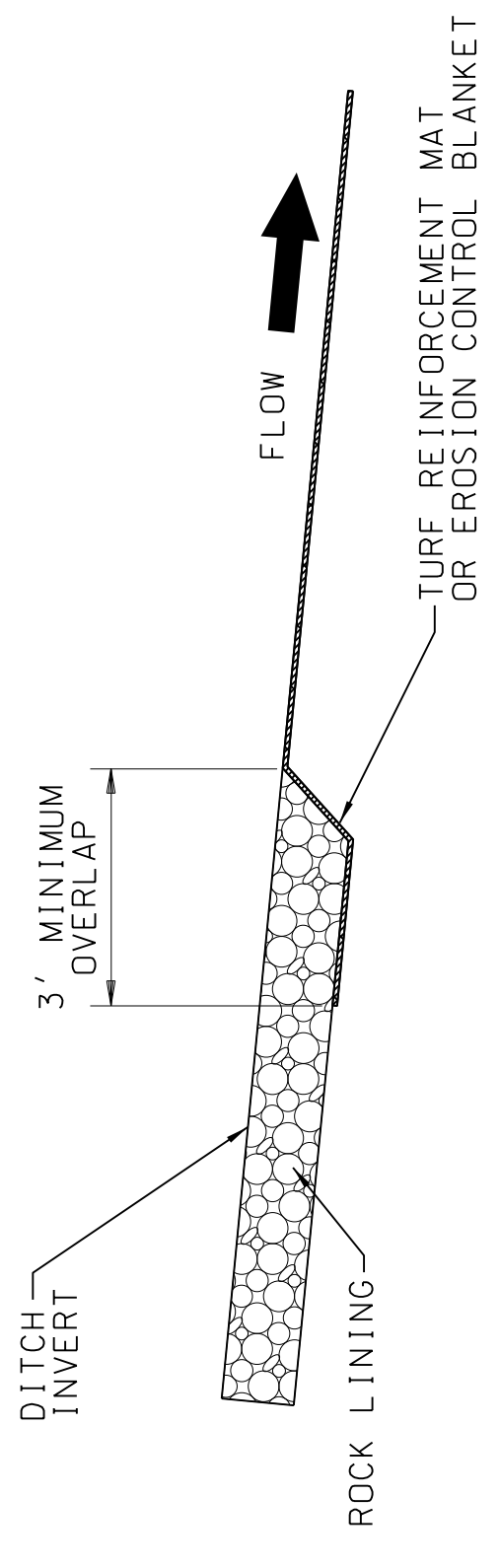
D = DEPTH TO PROTECT
T = THICKNESS (ROCK LINING)
W = WIDTH

TYPICAL SURFACE
DITCH SECTION



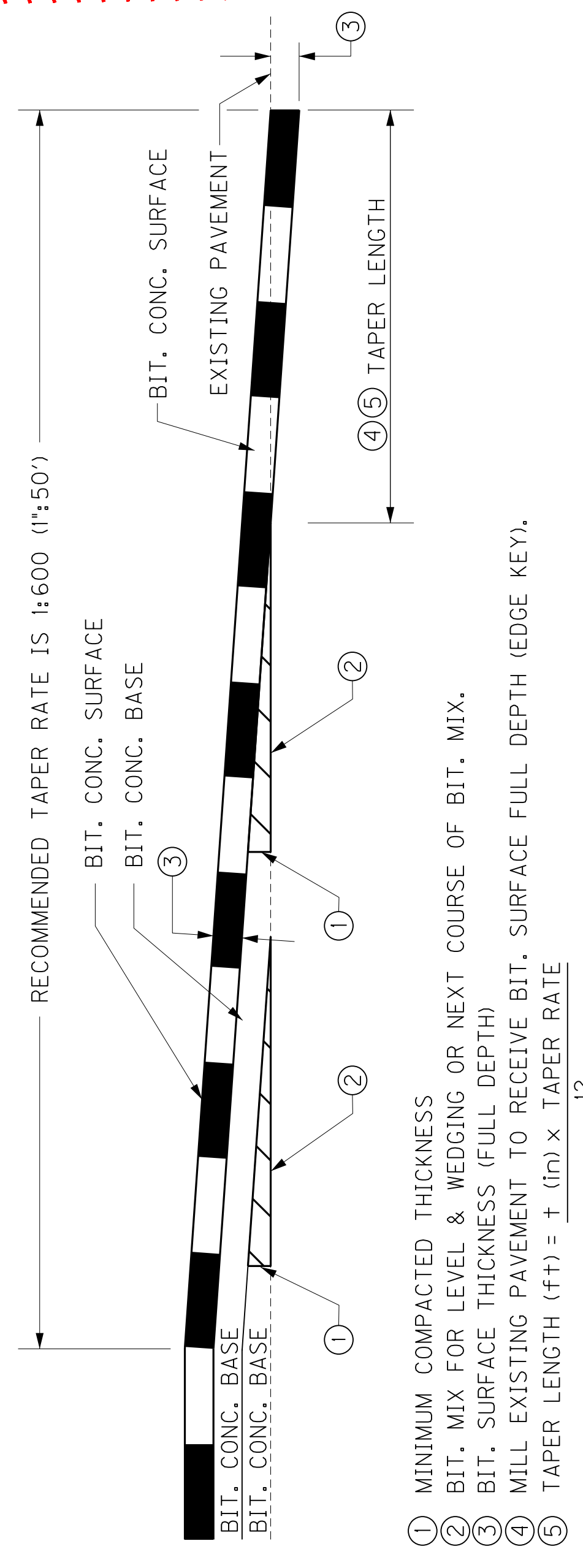
D = DEPTH TO PROTECT
T = THICKNESS (ROCK LINING)
W = DITCH WIDTH

TYPICAL ROADWAY DITCH
(NORMAL AND SPECIAL DITCH)



CHANNEL LINING
OVERLAP DETAIL

REPLACE TAPER
OF OVERLAYS
DETAIL WITH
NEW VERSION



- ① MINIMUM COMPACTED THICKNESS
- ② BIT. MIX FOR LEVEL & WEDGING OR NEXT COURSE OF BIT. MIX.
- ③ BIT. SURFACE THICKNESS (FULL DEPTH)
- ④ MILL EXISTING PAVEMENT TO RECEIVE BIT. SURFACE FULL DEPTH (EDGE KEY).
- ⑤ TAPER LENGTH (ft) = $\frac{t}{12} \times \text{TAPER RATE}$

FOR A TAPER RATE OF 1:600 (1" = 50')
TAPER LENGTH = 62.5 FEET WHEN t = 1.25 INCHES
TAPER LENGTH = 75 FEET WHEN t = 1.5 INCHES

TAPERING OF OVERLAYS ON MEDIUM SPEED FACILITIES (45 MPH to 65 MPH)

TYPICAL SECTION
DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
MUHLENBERG	2-8506.00	R2L

GENERAL NOTES

MEANS AND METHODS THE CONTRACTOR SHALL DEVELOP A DETAILED SUBMISSION INDICATING THE PROGRESSION OF WORK WITH SPECIFIC TIMES WHEN TASKS WILL BE PERFORMED FOR WORK ACTIVITIES THAT ARE ON OR IN THE VICINITY OF THE CSXT PROPERTY. THIS SUBMISSION MAY REQUIRE A WALKTHROUGH AT WHICH TIME CSXT AND/OR THE REPRESENTATIVE WILL BE PRESENT. WORK WILL NOT BE PERMITTED TO COMMENCE UNTIL THE CONTRACTOR HAS PROVIDED CSXT WITH A SATISFACTORY PLAN THAT THE PROJECT WILL BE UNDERTAKEN WITHOUT SCHEDULING, PERFORMANCE OR SAFETY RELATED ISSUES. PROVIDE A LISTING OF THE ANTICIPATED EQUIPMENT TO BE USED. THE LOCATION OF ALL EQUIPMENT TO BE USED AND INSURE A CONTINGENCY PLAN OF ACTION IS IN PLACE SHOULD A PRIMARY PIECE OF EQUIPMENT MALFUNCTION. ALL WORK IN THE VICINITY OF CSXT OPERATIONS THAT HAS THE POTENTIAL OF AFFECTING CSXT TRAIN OPERATIONS MUST BE SUBMITTED AND APPROVED BY CSXT PRIOR TO WORK BEING PERFORMED. THIS SUBMISSION WILL ALSO INCLUDE A DETAILED NARRATIVE DISCUSSING THE COORDINATION OF PROJECT SAFETY ISSUES BETWEEN CONTRACTOR, CSXT AND THE REPRESENTATIVE. THE NARRATIVE SHALL ADDRESS PROJECT LEVEL COORDINATION AND DAY TO DAY, SPECIFIC WORK OPERATIONS INCLUDING CRANE AND EQUIPMENT OPERATIONS, ERECTION PLANS AND TEMPORARY WORKS.

ERECTION PROCEDURES, DEMOLITION PROCEDURES, EXCAVATION AND SHORING PROCEDURES ARE REQUIRED TO BE SUBMITTED TO CSXT, OR THE REPRESENTATIVE, IN ACCORDANCE WITH THE CSXT CONSTRUCTION SUBMISSION CRITERIA, LAST REVISED FEBRUARY 23, 2015. THE CSXT CONSTRUCTION SUBMISSION CRITERIA SHOULD BE REFERRED TO AND COMPLIED WITH PRIOR TO THE PREPARATION OF SUBMISSIONS. AS IT CONTAINS SPECIFIC REQUIREMENTS THAT COULD IMPACT THE CONTRACTOR'S MATERIAL SELECTION AND METHODS OR OPERATIONS FOR WORKS NEAR THE RAILROAD. REVISIONS TO CONTRACTOR SUBMISSIONS MAY NOT BE FIELD APPROVED. ANY DEVIATION(S) FROM A PREVIOUSLY ACCEPTED PLAN INCLUDING EQUIPMENT SUBSTITUTIONS WILL REQUIRE A FORMAL RESUBMISSION OF THE PROCEDURE FOR REVIEW AND ACCEPTANCE PRIOR TO PERFORMING ANY WORK. A PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF KENTUCKY MUST SIGN AND SEAL THE PLANS. UP TO THIRTY (30) DAYS WILL BE REQUIRED TO REVIEW ALL CONSTRUCTION SUBMISSIONS. UP TO AN ADDITIONAL THIRTY (30) DAYS WILL BE REQUIRED TO REVIEW ANY SUBSEQUENT SUBMISSIONS RETURNED NOT APPROVED.

CONSTRUCTION SCHEDULE SUBMIT A DETAILED CONSTRUCTION SCHEDULE FOR THE DURATION OF THE PROJECT CLEARLY INDICATING THE TIME PERIODS WHILE WORKING ON AND AROUND CSXT RIGHT-OF-WAY, AS THE WORK PROGRESSES. THIS SCHEDULE SHALL BE UPDATED AND RESUBMITTED AS NECESSARY TO REFLECT CHANGES IN WORK SEQUENCE, DURATION AND METHOD, ETC.

EMERGENCY ACTION PLAN SUBMIT AN EMERGENCY ACTION PLAN INDICATING THE LOCATION OF THE SITE, CONTACT NUMBERS, ACCESS TO THE SITE, INSTRUCTIONS FOR EMERGENCY RESPONSE AND LOCATION OF THE NEAREST HOSPITALS. THIS PLAN SHOULD COVER ALL ITEMS REQUIRED IN THE EVENT OF AN EMERGENCY AT THE SITE INCLUDING FIRE SUPPRESSION, COORDINATE THE EMERGENCY ACTION PLAN WITH THE SAFETY RELATED DISCUSSION OF THE MEANS AND METHODS SUBMISSION DISCUSSED ABOVE. THE PLAN SHOULD ALSO INCLUDE A METHOD TO PROVIDE THIS INFORMATION TO EACH PROJECT WORKER FOR EACH DAY ON SITE.

THE CONTRACTOR MUST ENSURE THAT PROPER EROSION CONTROL IS IMPLEMENTED ON AND ADJACENT TO CSXT RIGHT-OF-WAY DURING CONSTRUCTION. THE CONTRACTOR MUST PREVENT SILT AND DEBRIS ACCUMULATION IN THE RAILROAD ROADBED, DITCHES AND OTHER RAILROAD FACILITIES. THE CONTRACTOR MAY BE REQUIRED TO SUBMIT A DETAILED EROSION CONTROL PLAN FOR REVIEW AND ACCEPTANCE BY CSXT OR THEIR REPRESENTATIVE PRIOR TO PERFORMING ANY WORK.

CONTRACTOR ACCESS WILL BE LIMITED TO THE IMMEDIATE PROJECT AREA ONLY. THE CSXT RIGHT-OF-WAY OUTSIDE THE PROJECT AREA MAY NOT BE USED FOR CONTRACTOR ACCESS TO THE PROJECT SITE AND NO TEMPORARY AT-GRADE CROSSINGS WILL BE ALLOWED.

THE CONTRACTOR MAY NOT USE CSXT RIGHT-OF-WAY FOR STORAGE OF MATERIALS OR EQUIPMENT DURING CONSTRUCTION WITHOUT PRIOR CSXT APPROVAL. THE CSXT RIGHT-OF-WAY MUST REMAIN CLEAR FOR RAILROAD USE AT ALL TIMES. EQUIPMENT MAY NOT BE POSITIONED TO BLOCK THE RAILROAD ACCESS ROAD, TRACK AREA OR ANY PART OF THE CSXT RIGHT-OF-WAY WITHOUT PRIOR CSXT APPROVAL.

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UPON COMPLETION OF THE WORK ON CSXT PROPERTY, THE CONTRACTOR SHALL REQUEST THE OWNER TO ARRANGE A FINAL INSPECTION OF THE PROJECT WITH THE RAILROAD'S PROJECT ENGINEER OR THEIR AUTHORIZED REPRESENTATIVE.

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ALL EXISTING DRAINAGE PIPE THAT IS TO REMAIN AND REUSED SHALL BE CLEANED OF ALL DEBRIS AND INSPECTED FOR STRUCTURAL INTEGRITY, HYDRAULIC CAPACITY AND GENERAL CONDITION. A SUMMARY REPORT OF THE INSPECTION RESULTS SHALL BE SUPPLIED TO THE ENGINEER.

UTILITIES (HAZARDOUS OR FLAMMABLE MATERIALS)
 THE CONTRACTOR IS ADVISED TO EXERCISE CAUTION IN HIS OPERATIONS IN AREAS WHERE PLANS INDICATE THE PRESENCE OF A GAS LINE OR OTHER LINES CARRYING HAZARDOUS MATERIAL.

MAINTENANCE OF TRAFFIC
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TEMPORARY BARRIERS SHALL BE PLACED AS PER THE MAINTENANCE OF TRAFFIC PLANS AND/OR AS NEEDED BY THE CONTRACTOR AND SHALL BECOME THE PROPERTY OF THE CONTRACTOR WHEN NO LONGER NEEDED FOR MAINTAINING AND CONTROLLING TRAFFIC DURING CONSTRUCTION.

- SPECIAL NOTE I FOR PORTABLE CHANGEABLE MESSAGE SIGNS
- SPECIAL NOTE 9Y FOR MATERIAL TRANSFER VEHICLE
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- SPECIAL NOTE IIN FOR LONGITUDINAL JOINT ADHESIVE

SPECIAL PROVISIONS
 SPECIAL PROVISION 69 FOR EMBANKMENT AT BRIDGE END BENT STRUCTURES
 CLEARING AND GRUBBING
 APPROXIMATELY 28.894 ACRES.
 CONTROL OF WORK

THE RIGHT IS RESERVED BY THE DEPARTMENT TO HAVE OTHER WORK PERFORMED BY OTHER CONTRACTORS AND BY ITS OWN FORCES AND TO PERMIT PUBLIC UTILITY COMPANIES AND OTHERS TO DO WORK DURING THE CONSTRUCTION OF AND WITHIN THE LIMITS OF OR ADJACENT TO, THE PROJECT. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AND COOPERATE WITH SUCH OTHER PARTIES SO THAT INTERFERENCE WITH SUCH OTHER WORK WILL BE REDUCED TO A MINIMUM. THE CONTRACTOR SHALL AGREE, AND HEREBY DOES AGREE, TO MAKE NO CLAIMS AGAINST THE DEPARTMENT FOR ADDITIONAL COMPENSATION DUE TO DELAYS OR OTHER CONDITIONS CREATED BY THE OPERATIONS OF SUCH OTHER PARTIES. SHOULD A DIFFERENCE OF OPINION ARISE AS TO THE RIGHTS OF THE CONTRACTOR AND OTHERS WORKING WITHIN THE LIMITS OF OR ADJACENT TO THE PROJECT, THE ENGINEER WILL DECIDE AS TO THE RESPECTIVE RIGHTS OF THE VARIOUS PARTIES INVOLVED IN ORDER TO ASSURE THE COMPLETION OF THE DEPARTMENT'S WORK IN GENERAL HARMONY AND IN A SATISFACTORY MANNER AND HIS DECISION SHALL BE FINAL AND BINDING UPON THE CONTRACTOR.

CROSS PIPES @ STA. 2022+65.9; STA. 2026+13.8; STA. 2043+24
 PIPE TO BE INSTALLED USING TEMPORARY PARTIAL LANE CLOSURES. THE CONTRACTOR AT HIS DISCRETION WITH PRIOR APPROVAL OF THE RESIDENT ENGINEER, WILL BE ALLOWED TO BORE AND JACK SAID PIPE WITH THE COST OF THE BORE AND JACK BEING INCIDENTAL TO THE PIPE CONSTRUCTION. ALL TEMPORARY PARTIAL LANE CLOSURES AND MATERIALS AS WELL AS ANY BORE AND JACK OF PIPES SHALL BE INCIDENTAL TO THE PIPE CONSTRUCTION COST.

CROSS PIPE @ 129+06 EAST 2ND AVENUE
 PIPE TO BE INSTALLED BY CLOSURE OF EAST 2ND AVENUE FOR A PERIOD NOT TO EXCEED 3 CONSECUTIVE WORK DAYS. AT WHICH TIME SAID PIPE SHALL BE IN PLACE AND THE PROPOSED EAST 2ND AVENUE APPROACH SHALL HAVE BEEN CONSTRUCTED TO SUBGRADE WITH A MINIMUM OF 4" TRAFFICBOUND BASE AND ALL SAFETY FELL SLOPES CONSTRUCTED AS WELL AS ANY WORK WHICH EXCEEDS THE 3 CONSECUTIVE WORK DAYS SHALL INCUR DAMAGES OF \$30,000 PER DAY. THE CONTRACTOR AT HIS DISCRETION WITH PRIOR APPROVAL OF THE RESIDENT ENGINEER, WILL BE ALLOWED TO BORE AND JACK SAID PIPE WITH THE COST OF THE BORE AND JACK BEING INCIDENTAL TO THE PIPE CONSTRUCTION. EAST 2ND AVENUE ROAD CLOSURE AND MATERIALS AS WELL AS ANY BORE AND JACK OF PIPE SHALL BE INCIDENTAL TO THE PIPE CONSTRUCTION COST.

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ACCESS CONTROL
 THE CONTROL OF ACCESS ON THIS PROJECT SHALL BE BY PERMIT.
 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.

DEPARTMENT OF THE ARMY PERMIT AND WATER QUALITY CERTIFICATION APPROVALS
 A DEPARTMENT OF THE ARMY (DA) PERMIT, WHICH MAY REQUIRE APPROVAL OF A STATE WATER QUALITY CERTIFICATION FROM THE KENTUCKY DIVISION OF WATER, REGULATES THIS PROJECT AT ONE OR MORE LOCATIONS. PERFORM ALL APPLICABLE WORK IN COMPLIANCE WITH THE CONDITIONS STATED IN THE DA PERMIT AND THE APPROVED WATER QUALITY CERTIFICATION. POST A COPY OF THE DA PERMIT AND THE WATER QUALITY CERTIFICATION IN A CONSPICUOUS PLACE AT THE PROJECT SITE. IF A DA PERMIT OR WATER QUALITY CERTIFICATION APPROVAL IS PENDING, DO NOT WORK IN OR DISTURB THE DESIGNATED AREAS) UNTIL OBTAINING THE APPROPRIATE APPROVAL(S). REFER TO NOTICE(S) CONTAINED IN THE CONTRACT BID PROPOSAL FOR DESIGNATED AREAS) WHERE WORK IS PROHIBITED BY THE ABSENCE OF APPROVAL.

ASPHALT PAVEMENT RIDE QUALITY
 PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY A SHALL APPLY.

COMPACTION OF ASPHALT MIXTURES
 WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNISHED FOR DRIVING LANES AND RAMPS AT ONE INCH OR GREATER ON THIS PROJECT BY OPTION A ACCORDING TO SUBSECTIONS 402 AND 403 OF THE CURRENT STANDARD SPECIFICATIONS. USE JOINT CORES AS DESCRIBED IN SUBSECTION 402.03.02 FOR SURFACE MIXTURES ONLY. WILL ACCEPT THE COMPACTION OF ALL OTHER ASPHALT MIXTURES BY OPTION B.

EDGE KEY
 THIS WORK INCLUDES CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH AS DETAILED IN THE PLANS SO THAT THE NEW SURFACE MAY FEEL KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

STANDARD DRAWINGS
 STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KY AT (502) 564-3670.

WINTER CLOSURE
 ANY ASPHALT CONCRETE BASE AND/OR SURFACE COURSE USED AS A RIDING SURFACE EXPOSED TO TRAFFIC DURING WINTER CLOSURE PERIODS SHALL CONTAIN NATURAL, CONGLOMERATE, CRUSHED SLAG, CRUSHED GRANITE OR CRUSHED SANDSTONE SAND IN THE PROPORTION OF NO LESS THAN 25% OF THE TOTAL COMBINED COARSE AND FINE AGGREGATE

HOLIDAYS AND SPECIAL EVENTS
 LISTED BELOW ARE DATES AND TIMES FOR HOLIDAYS AND SPECIAL EVENTS WHEN ROAD CLOSURES, LANE CLOSURES AND BLASTING WILL NOT BE ALLOWED.

2018			
LABOR DAY	6:00 AM AUGUST 31	TO 6:00 AM	SEPTEMBER 4
THANKSGIVING	6:00 AM NOVEMBER 20	TO 6:00 AM	NOVEMBER 26
CHRISTMAS/NEWYEARS	6:00 AM DECEMBER 21	TO 6:00 AM	JANUARY 3
2019			
KEA (SPRING BREAK) TO BE DETERMINED BY THE DEPARTMENT.			
EASTER	6:00 AM APRIL 19	TO 6:00 AM	APRIL 22
MEMORIAL DAY	6:00 AM MAY 24	TO 6:00 AM	MAY 28
JULY 4TH	6:00 AM JULY 3	TO 6:00 AM	JULY 6
LABOR DAY	6:00 AM AUGUST 30	TO 6:00 AM	SEPTEMBER 3
THANKSGIVING	6:00 AM NOVEMBER 26	TO 6:00 AM	DECEMBER 2
CHRISTMAS/NEWYEARS	6:00 AM DECEMBER 20	TO 6:00 AM	JANUARY 3

FUTURE HOLIDAY DATES SHALL BE DETERMINED BY THE DEPARTMENT IF NECESSARY, COMPARABLE TO ABOVE DATES. THE ABOVE DATES ARE SUBJECT TO CHANGE IF THE DEPARTMENT DEEMS NECESSARY.

DO NOT DISTURB LANDSCAPE PLANTS UNLESS ABSOLUTELY NECESSARY.

DO NOT DISTURB ANY PLANTS WITHOUT PRIOR APPROVAL OF THE PROJECT ENGINEER.

THE PROJECT ENGINEER SHALL NOTIFY THE DISTRICT AGRONOMIST FOR POSSIBLE DEPARTMENT SALVAGE OF ANY PLANTS NEEDING REMOVAL.

GENERAL NOTES

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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.

DEPARTMENT OF THE ARMY PERMIT AND WATER QUALITY CERTIFICATION APPROVALS

A DEPARTMENT OF THE ARMY (DA) PERMIT, WHICH MAY REQUIRE APPROVAL OF A STATE WATER QUALITY CERTIFICATION FROM THE KENTUCKY DIVISION OF WATER, REGULATES THIS PROJECT AT ONE OR MORE LOCATIONS. PERFORM ALL APPLICABLE WORK IN COMPLIANCE WITH THE CONDITIONS STATED IN THE DA PERMIT AND THE APPROVED WATER QUALITY CERTIFICATION. POST A COPY OF THE DA PERMIT AND THE WATER QUALITY CERTIFICATION IN A CONSPICUOUS PLACE AT THE PROJECT SITE. IF A DA PERMIT OR WATER QUALITY CERTIFICATION APPROVAL IS PENDING, DO NOT WORK IN OR DISTURB THE DESIGNATED AREAS) UNTIL OBTAINING THE APPROPRIATE APPROVAL(S). REFER TO NOTICE(S) CONTAINED IN THE CONTRACT BID PROPOSAL FOR DESIGNATED AREA(S) WHERE WORK IS PROHIBITED BY THE ABSENCE OF APPROVAL.

ASPHALT PAVEMENT RIDE QUALITY

PAVEMENT RIDEABILITY REQUIREMENTS, IN ACCORDANCE WITH SECTION 410 OF THE STANDARD SPECIFICATIONS, SHALL APPLY ON THIS PROJECT. CATEGORY A SHALL APPLY.

COMPACTION OF ASPHALT MIXTURES

WILL ACCEPT THE COMPACTION OF ASPHALT MIXTURES FURNISHED FOR DRIVING LANES AND RAMPS AT ONE INCH OR GREATER ON THIS PROJECT BY OPTION A ACCORDING TO SUBSECTIONS 402 AND 403 OF THE CURRENT STANDARD SPECIFICATIONS. USE JOINT CORES AS DESCRIBED IN SUBSECTION 402.03.02 FOR SURFACE MIXTURES ONLY. WILL ACCEPT THE COMPACTION OF ALL OTHER ASPHALT MIXTURES BY OPTION B.

EDGE KEY

THIS WORK INCLUDES CUTTING OUT THE EXISTING ASPHALT SURFACE TO A MINIMUM DEPTH AND WIDTH AS DETAILED IN THE PLANS SO THAT THE NEW SURFACE MAY FEEL KEY" INCLUDES ALL NECESSARY MATERIALS, LABOR AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND DISPOSE OF THE REMOVED ASPHALT MATERIAL.

STANDARD DRAWINGS

STANDARD DRAWINGS ARE NOT ATTACHED TO THESE PLANS. A STANDARD DRAWING BOOK AND THE HEADWALL SUPPLEMENTAL BOOK MAY BE OBTAINED FROM THE POLICY SUPPORT BRANCH OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES IN FRANKFORT, KY AT (502) 564-3670.

WINTER CLOSURE

ANY ASPHALT CONCRETE BASE AND/OR SURFACE COURSE USED AS A RIDING SURFACE EXPOSED TO TRAFFIC DURING WINTER CLOSURE PERIODS SHALL CONTAIN NATURAL, CONGLOMERATE, CRUSHED SLAG, CRUSHED GRANITE OR CRUSHED SANDSTONE SAND IN THE PROPORTION OF NO LESS THAN 25% OF THE TOTAL COMBINED COARSE AND FINE AGGREGATE

HOLIDAYS AND SPECIAL EVENTS

LISTED BELOW ARE DATES AND TIMES FOR HOLIDAYS AND SPECIAL EVENTS WHEN ROAD CLOSURES, LANE CLOSURES AND BLASTING WILL NOT BE ALLOWED.

2018	6:00 AM AUGUST 31	TO 6:00 AM SEPTEMBER 4
LABOR DAY	6:00 AM NOVEMBER 20	TO 6:00 AM NOVEMBER 26
THANKSGIVING	6:00 AM DECEMBER 21	TO 6:00 AM JANUARY 3
CHRISTMAS/NEWYEARS		
2019		
KEA (SPRING BREAK) TO BE DETERMINED BY THE DEPARTMENT.		
EASTER	6:00 AM APRIL 19	TO 6:00 AM APRIL 22
MEMORIAL DAY	6:00 AM MAY 24	TO 6:00 AM MAY 28
JULY 4TH	6:00 AM JULY 3	TO 6:00 AM JULY 6
LABOR DAY	6:00 AM AUGUST 30	TO 6:00 AM SEPTEMBER 3
THANKSGIVING	6:00 AM NOVEMBER 26	TO 6:00 AM DECEMBER 2
CHRISTMAS/NEWYEARS	6:00 AM DECEMBER 20	TO 6:00 AM JANUARY 3

FUTURE HOLIDAY DATES SHALL BE DETERMINED BY THE DEPARTMENT IF NECESSARY, COMPARABLE TO ABOVE DATES. THE ABOVE DATES ARE SUBJECT TO CHANGE IF THE DEPARTMENT DEEMS NECESSARY.

DO NOT DISTURB LANDSCAPE PLANTS UNLESS ABSOLUTELY NECESSARY.

DO NOT DISTURB ANY PLANTS WITHOUT PRIOR APPROVAL OF THE PROJECT ENGINEER.

THE PROJECT ENGINEER SHALL NOTIFY THE DISTRICT AGRONOMIST FOR POSSIBLE DEPARTMENT SALVAGE OF ANY PLANTS NEEDING REMOVAL.