



COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET  
[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

Andy Beshear  
GOVERNOR

Jim Gray  
SECRETARY

January 27, 2021

CALL NO. 301  
CONTRACT ID NO. 211303  
ADDENDUM # 2

Subject: CLAY COUNTY, FD04 SPP 026 0421 013-017  
Letting January 29, 2021

- (1) Added - Special Note for Experimental KYCT and Hamburg Testing -  
Pages 1-3 of 3
- (2) Revised - Plan Sheets - R2A, R2B and R2C

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 black ink that reads "Rachel Mills".

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

RM:mr  
Enclosures

## SPECIAL NOTE FOR EXPERIMENTAL KYCT AND HAMBURG TESTING

### 1.0 General

**1.1 Description.** The KYCT (Kentucky Method for Cracking Test) and the Hamburg test results will help determine if the mixture is susceptible to cracking and rutting. During the experimental phase, data will be gathered and analyzed by the Department to determine the durability of the bituminous mixes. Additionally, the data will help the Department to create future performance based specifications which will include the KYCT and Hamburg test methods.

### 2.0 Equipment

**2.1 KYCT Testing Equipment.** The Department will require a Marshall Test Press with digital recordation capabilities. Other CT testing equipment may be used for testing with prior approval by the Department.

**2.2 Water Baths.** One or more water baths will be required that can maintain a temperature of 77° +/- 1.8° F with a digital thermometer showing the water bath temperature. Also, one water bath shall have the ability to suspend gyratory specimen fully submerged in water in accordance with AASHTO T-166, current edition.

**2.3 Hamburg Wheel Track Testing.** The department encourages the use of the PTI APA/Hamburg Jr. test equipment to perform the loaded wheel testing. The Department will allow different equipment for the Hamburg testing, but the testing device must be approved by the Department prior to testing.

**2.4 Gyratory Molds.** Gyratory molds will be required to assist in the production of gyratory specimens in accordance with AASHTO T-312, current edition.

**2.5 Ovens.** Adequate (minimum of two ovens) will be required to accommodate the additional molds and asphalt mixture necessary to perform the acceptance testing as outlined in Section 402 of the Kentucky Standard Specifications for Road and Bridge Construction, current edition.

**2.6 Department Equipment.** The Department will provide gyratory molds, PINE 850 Test Press with digital recordation, and CT testing equipment to assist during this experimental phase so data can be gathered. Hamburg test specimens will be submitted to the Division of Materials for testing on the PTI APA/Hamburg Jr if the asphalt contractor or district materials office does not have an approved Hamburg testing device.

### 3.0 Testing Requirements

**3.1 Acceptance Testing.** Perform all acceptance testing and aggregate gradation as according with Section 402 and Section 403 of the Kentucky Standard Specifications for Road and Bridge Construction, current edition.

**3.2 KYCT Testing.** Perform crack resistance analysis (KYCT) in accordance with the current Kentucky Method for KYCT Index Testing during the mix design phase and during the plant production of all surface mixtures. For mix design approvals, submit KYCT results on the Department MixPack. For Class 4 mixtures, submit ingredient materials to the Division of Materials for informational verification.

**3.2.1 KYCT Frequency.** Obtain an adequate sample of hot mix asphalt to insure the acceptance testing, gradation, and KYCT gyratory samples can be fabricated and is representative of the bituminous mixture. Acceptance specimens shall be fabricated first, then immediately after, fabricate the KYCT samples with the gyratory compactor in accordance with Section 2.4 of this Special Note. Analysis of the KYCT specimens and gradation will be required one per subplot produced from the same asphalt material and at the same time as the acceptance specimen is sampled and tested.

**3.2.2 Number of Specimens and Conditioning.** Fabricate specimens in accordance with the Kentucky Method for KYCT Index Testing. Contrary to the method, fabricate a minimum of 3 and up to 6 test specimens. The specimens shall be compacted at the temperature in accordance to KM 64-411. KYCT mix design specimens shall be short-term conditioned for four hours at compaction temperature in accordance to KM 64-411. Contrary to the Kentucky Method, plant produced bituminous material shall be short-term conditioned immediately after sampling for two hours at compaction temperature in accordance to KM 64-411. Additionally, fabricated specimens shall be allowed to cool in air (fan is permissible) for 30 minutes +/- 5 minutes and conditioned in a 77 °F water bath for 30 minutes +/- 5 minutes. To insure confidence and reliability of the test results provided by KYCT testing and Hamburg testing, reheating of the asphalt mixture is prohibited.

**3.2.3 Record Times.** For each subplot, record the time required between drying aggregates in the plant to KYCT specimen fabrication. The production time may vary due to the time that the bituminous material is held in the silo. Record the preconditioning time when the time exceeds the one hour specimen cool down time as required in accordance to The Kentucky Method for KYCT Index Testing. The preconditioning time may exceed an hour if the technician is unable to complete the test on the same day or within the specified times as outlined in The Kentucky Method for KYCT Index Testing. The production time and the preconditioning time shall be recorded on the AMAW.

**3.2.4 File Name.** As according to section 7.12 of The Kentucky Method for KYCT Index Testing, save the filename with the following format; "CID\_Approved Mix Number\_Lot Number\_Sublot Number\_Date"

**3.3 Hamburg Testing.** Perform the rut resistance analysis (Hamburg) in accordance to AASTHO T-324, not to exceed 20,000 passes for all bituminous mixtures during the mix design phase and production. For mix design approvals, submit Hamburg results on the Department MixPack. For Class 4 mixtures, submit ingredient materials to the Division of Materials for informational verification.

**3.3.1 Hamburg Testing Frequency.** Perform testing and analysis per lot of material. The plant produced bituminous material sampled for the Hamburg test does not have to be obtained at the same time as the acceptance and KYCT sample. If the Hamburg test sample is not obtained at the same time as the KYCT sample, determine the Maximum Specific Gravity of the KYCT sample in accordance with AASTHO T-209 coinciding with the Hamburg specimens.

**3.3.2 Record Times.** Record the production time as according to section 3.2.3 in this special note. Also record the time that the specimens were fabricated and the time the Hamburg testing was started. All times shall be recorded on the AMAW.

**3.3.3 File Name.** Save the Excel spreadsheet with the following file name; “Hamburg\_CID\_Approved Mix Number\_Lot Number\_Sublot Number\_Date” and upload the file into the AMAW.

#### **4.0 Data**

Submit the AMAW and all test data that was obtained for acceptance, gradation, KYCT, and Hamburg testing within five working days once all testing has been completed for a lot to Central Materials Lab and the District Materials Engineer. Also, any data and or comments that the asphalt contractor or district personnel deem informational during this experimental phase, shall also be submitted to the Central Materials Lab and the District Materials Engineer. Any questions or comments regarding any item in this Special Note can be directed to the Central Office, Division of Materials, Asphalt Branch.

#### **5.0 KYCT Video Demonstration**

<https://youtu.be/84j0bM45-hg>

#### **6.0 Payment**

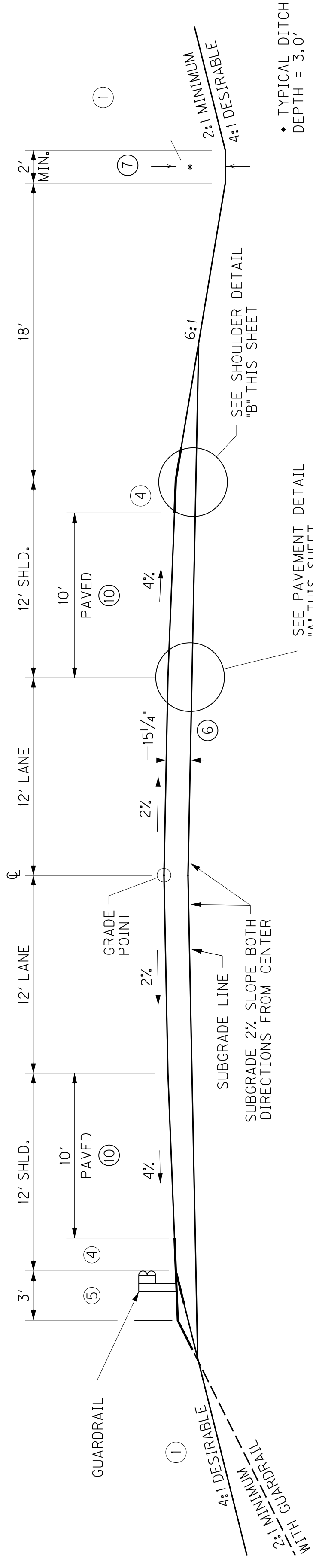
Any additional labor and testing equipment that is required to fabricate and test the KYCT and Hamburg specimens shall be considered to be incidental to the asphalt surface line item. The Department will perform the testing for the KYCT and Hamburg specimens if a producer does not possess the proper equipment.

June 3, 2019

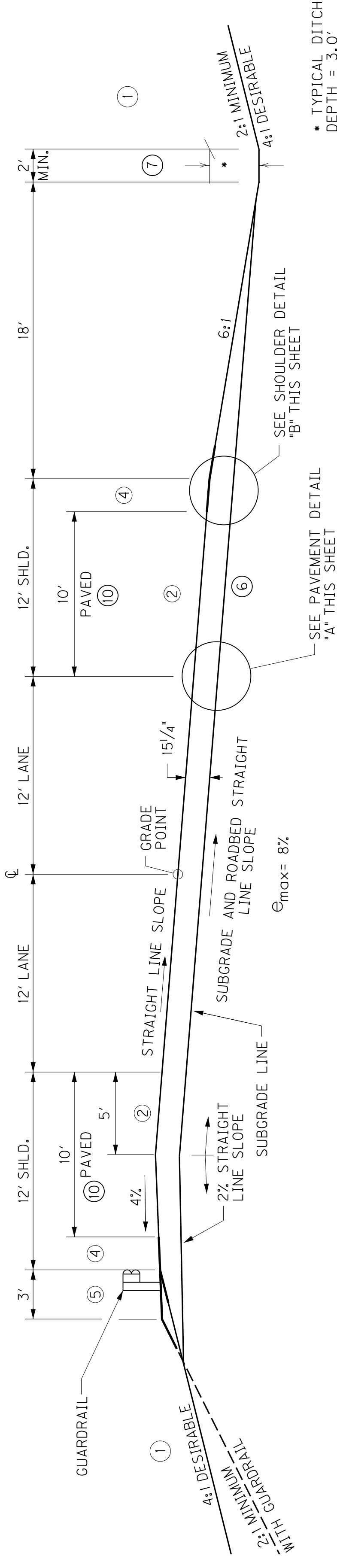
# TYPICAL SECTIONS

## MANCHESTER - HYDEN ROAD US 421/KY 80 WIDENING 2-LANE RURAL

STA. 261+20.00 TO 278+87.17  
FOR RURAL TIE-IN, SEE SHEET R002E

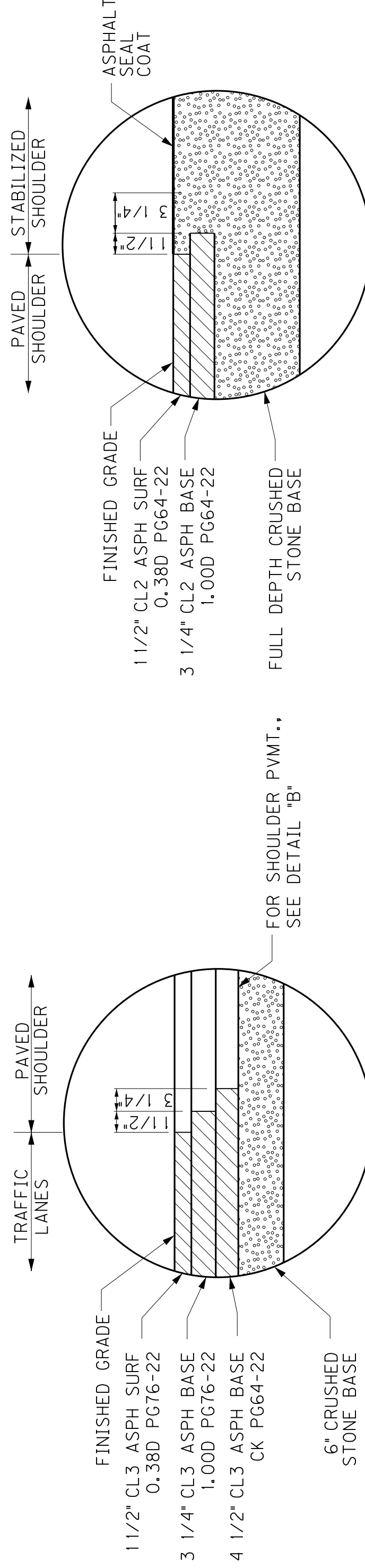


**NORMAL FILL / CUT SECTION**



**SUPERELEVATION FILL / CUT SECTION**

STA. 264+01.90 TO STA. 275+58.19



**DETAIL "A"**

N. T. S.

MAINLINE TRAFFIC LANE PAVEMENT

**DETAIL "B"**

N. T. S.

MAINLINE SHOULDER PAVEMENT

**NOTES**

- ① SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS.
  - ② SUPERELEVATED SHOULDER TO BE CONSTRUCTED TO SUPERELEVATION RATE. AT NO TIME WILL THE SLOPE BE FLATTER THAN THE SLOPE INDICATED FOR NORMAL SECTION.
  - ③ REFILL MATERIAL TO CONFORM TO APPLICABLE SECTIONS OF THE CURRENT EDITION OF KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
  - ④ ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
- ASPHALT SEAL COAT @ 2.40 LBS./S.Y.  
ASPHALT SEAL AGGREGATE @ 20 LBS./S.Y.  
(CRUSHED AGGREGATE SIZE NO.8 OR 9M)
- ⑤ SHOULDERS SHALL BE WIDENED 3' WHERE GUARDRAIL IS TO BE INSTALLED.
  - ⑥ SUBGRADE MATERIAL SHALL CONFORM TO AND BE PLACED AND COMPACTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CURRENT EDITION OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SUBGRADE MATERIAL SHALL BE CAPABLE OF PROVIDING A MINIMUM CBR VALUE OF 6.
  - ⑦ SEE PLANS FOR CHANNEL LINING REQUIREMENTS
  - ⑧ FOR ROCK SLOPES, SEE CROSS SECTIONS.
  - ⑨ SEE CROSS SECTIONS FOR PRE-SPLIT SLOPES FROM RDZ TO ROCK CUT DITCH LINE.
  - ⑩ ROLLED SHOULDER RUMBLE STRIPS

**PAVEMENT SCHEDULE**

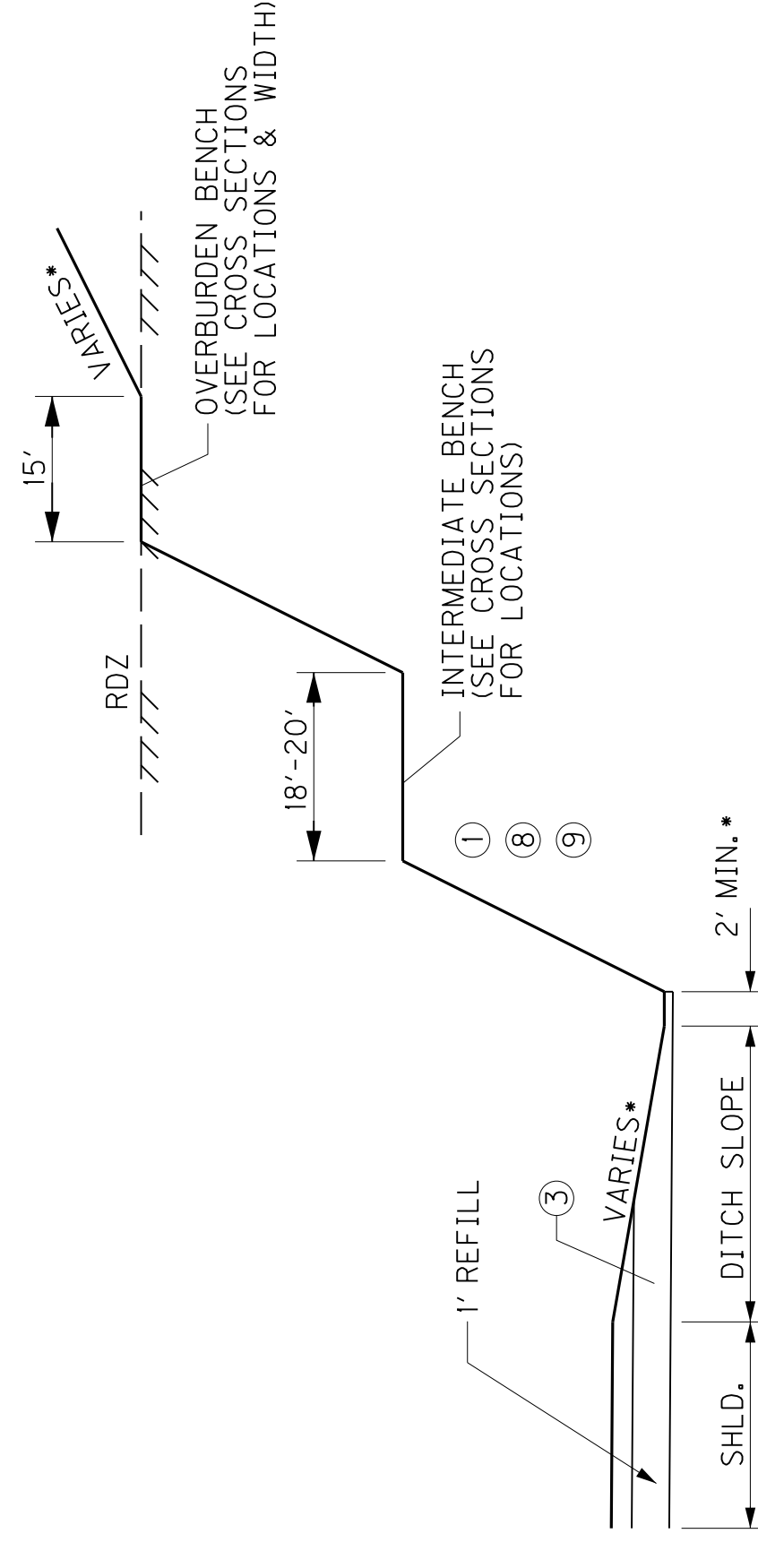
**TRAFFIC LANES**

- CRUSHED STONE BASE 6" DEPTH
- CL3 ASPH BASE CK PG64-22 4 1/2" DEPTH
- CL3 ASPH BASE 1,000 PG76-22 3 1/4" DEPTH
- CL3 ASPH SURF 0.38B PG76-22 1 1/2" DEPTH

**SHOULDERS**

- CRUSHED STONE BASE FULL DEPTH
- CL2 ASPH BASE 1,000 PG64-22 3 1/4" DEPTH
- CL2 ASPH SURF 0.38D PG64-22 1 1/2" DEPTH

ASPHALT MATERIAL FOR TACK NON-TRACKING @ 0.84 LBS./S.Y. (0.10 GAL./S.Y.) BETWEEN EACH COURSE OF ASPHALT



**TYPICAL RURAL ROCK CUT SECTION**

\* SEE CROSS SECTIONS

N. T. S.



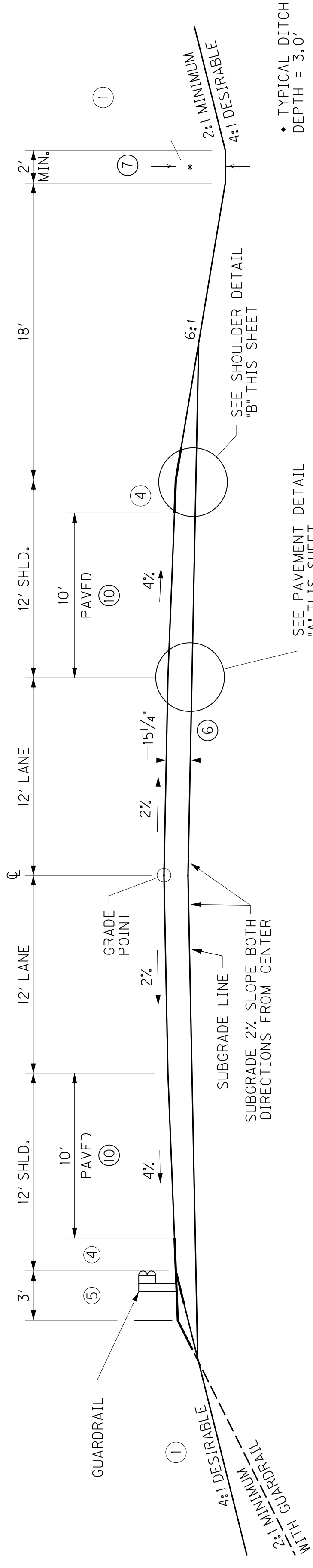
SCALE: 1"= 5'

TYPICAL SECTIONS  
US 421/KY 80 WIDENING  
2 LANE RURAL

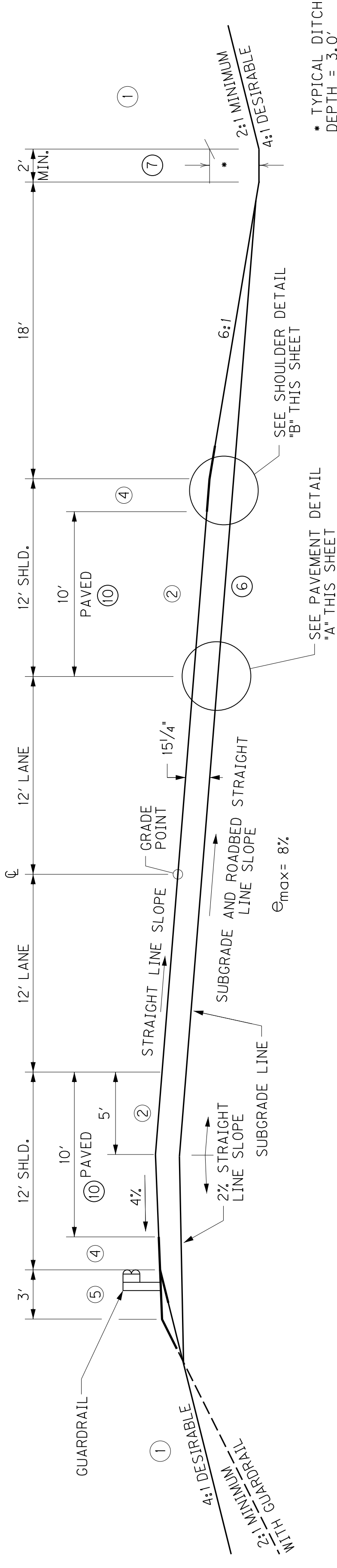
# TYPICAL SECTIONS

## MANCHESTER - HYDEN ROAD US 421/KY 80 WIDENING 2-LANE RURAL

STA. 261+20.00 TO 278+87.17  
FOR RURAL TIE-IN, SEE SHEET R002E

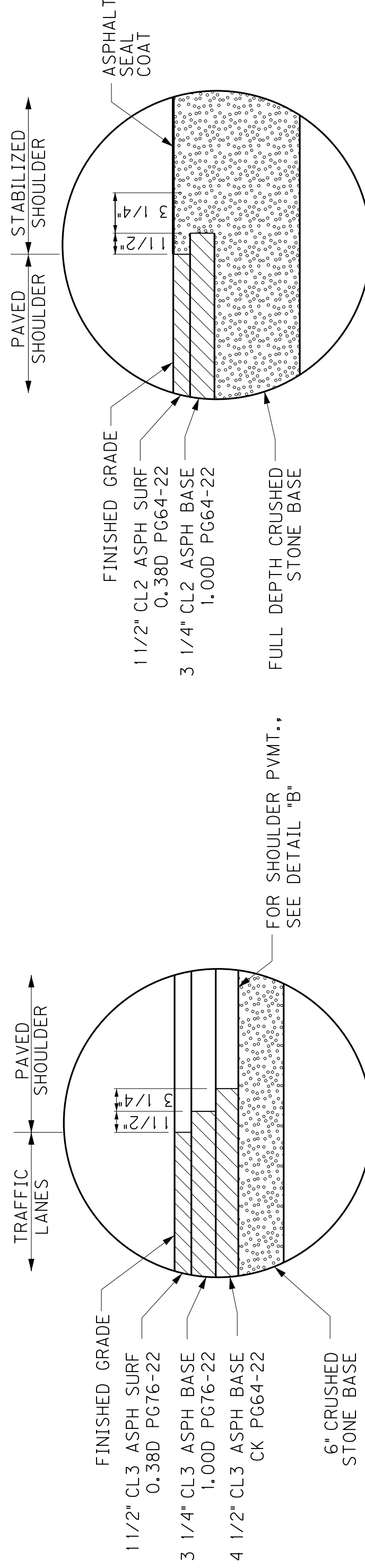


**NORMAL FILL / CUT SECTION**



**SUPERELEVATION FILL / CUT SECTION**

STA. 264+01.90 TO STA. 275+58.19



**DETAIL "A"**

N. T. S.

MAINLINE TRAFFIC LANE PAVEMENT

**DETAIL "B"**

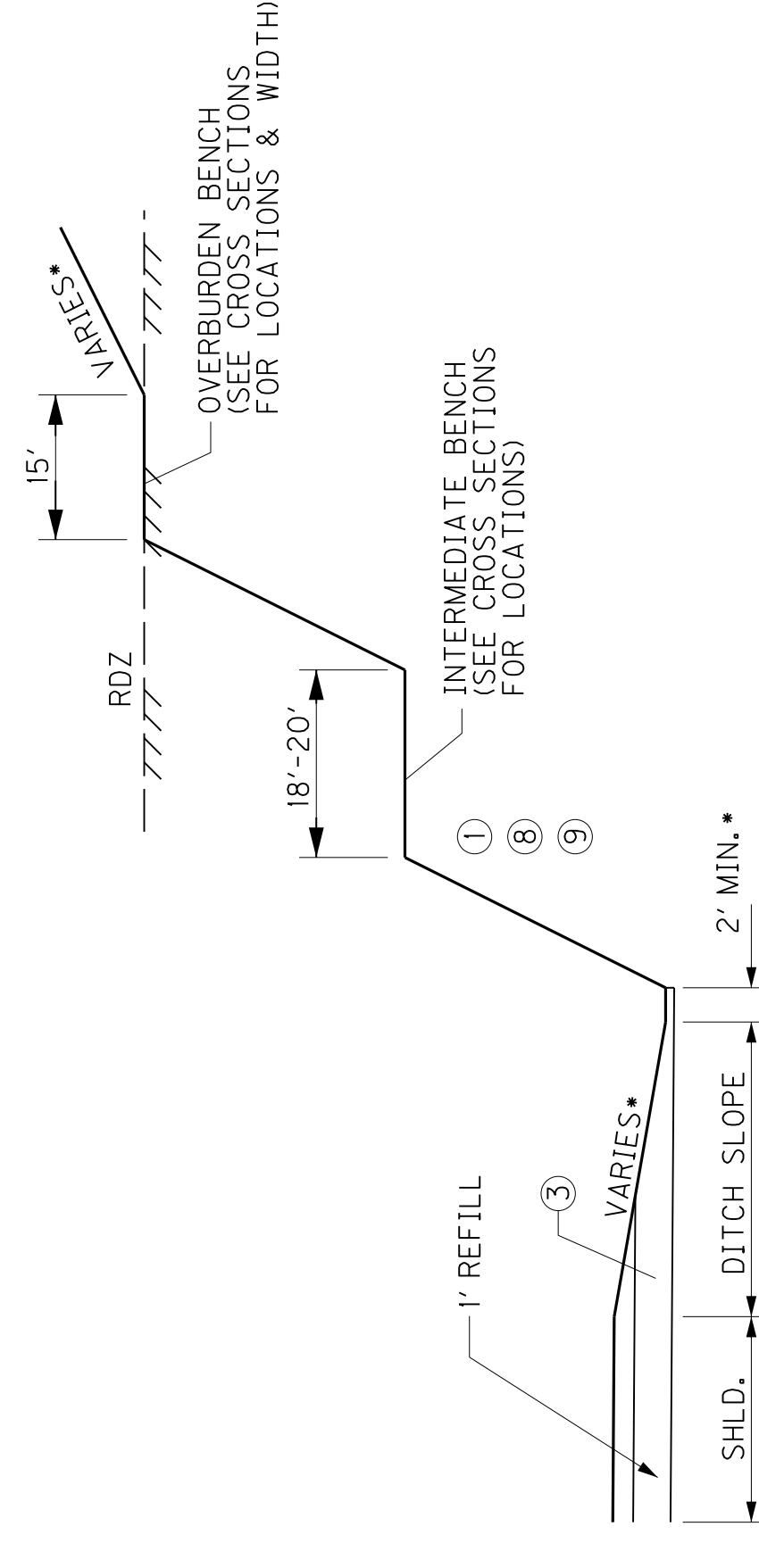
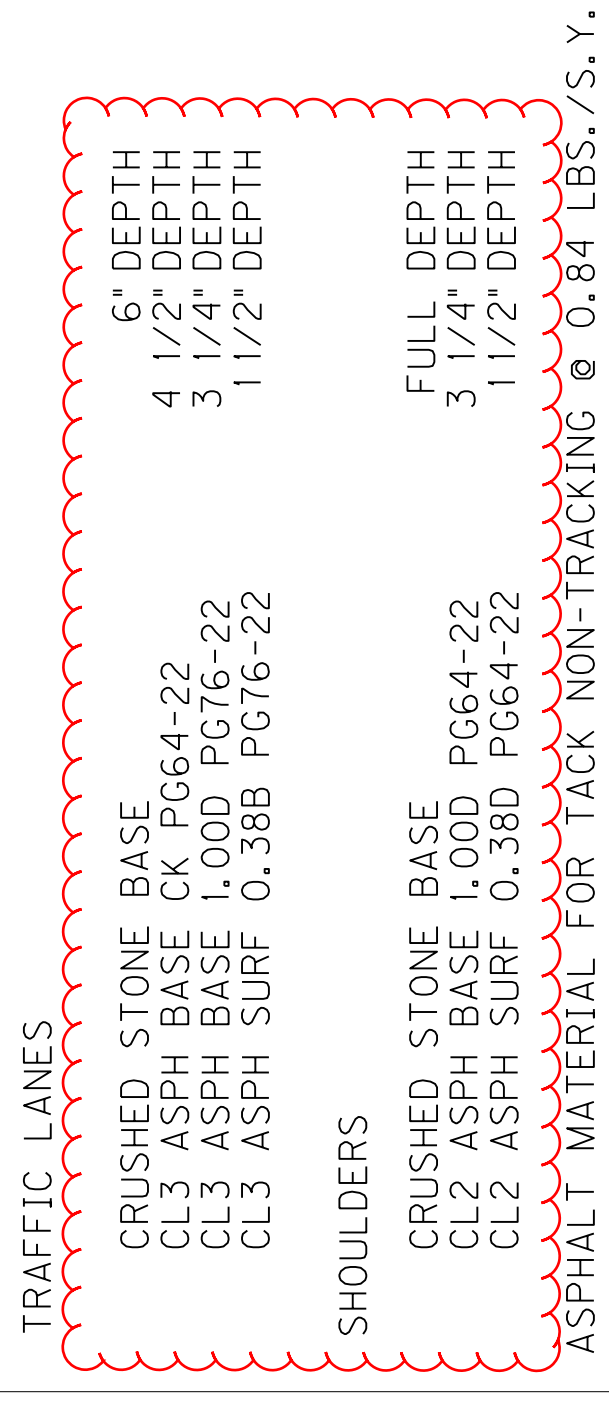
N. T. S.

MAINLINE SHOULDER PAVEMENT

**NOTES**

- 1 SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS.
  - 2 SUPERELEVATED SHOULDER TO BE CONSTRUCTED TO SUPERELEVATION RATE. AT NO TIME WILL THE SLOPE BE FLATTER THAN THE SLOPE INDICATED FOR NORMAL SECTION.
  - 3 REFILL MATERIAL TO CONFORM TO APPLICABLE SECTIONS OF THE CURRENT EDITION OF KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
  - 4 ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
- ASPHALT SEAL COAT — ASPHALT SEAL COAT @ 2.40 LBS./S.Y.  
ASPHALT SEAL AGGREGATE @ 20 LBS./S.Y.  
(CRUSHED AGGREGATE SIZE NO.8 OR 9M)
- 5 SHOULDERS SHALL BE WIDENED 3' WHERE GUARDRAIL IS TO BE INSTALLED.
  - 6 SUBGRADE MATERIAL SHALL CONFORM TO AND BE PLACED AND COMPACTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CURRENT EDITION OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SUBGRADE MATERIAL SHALL BE CAPABLE OF PROVIDING A MINIMUM CBR VALUE OF 6.
  - 7 SEE PLANS FOR CHANNEL LINING REQUIREMENTS
  - 8 FOR ROCK SLOPES, SEE CROSS SECTIONS.
  - 9 SEE CROSS SECTIONS FOR PRE-SPLIT SLOPES FROM RDZ TO ROCK CUT DITCH LINE.
  - 10 ROLLED SHOULDER RUMBLE STRIPS

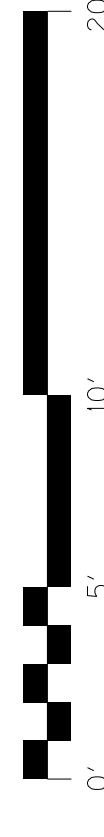
**PAVEMENT SCHEDULE**



**TYPICAL RURAL ROCK CUT SECTION**

\* SEE CROSS SECTIONS

N. T. S.



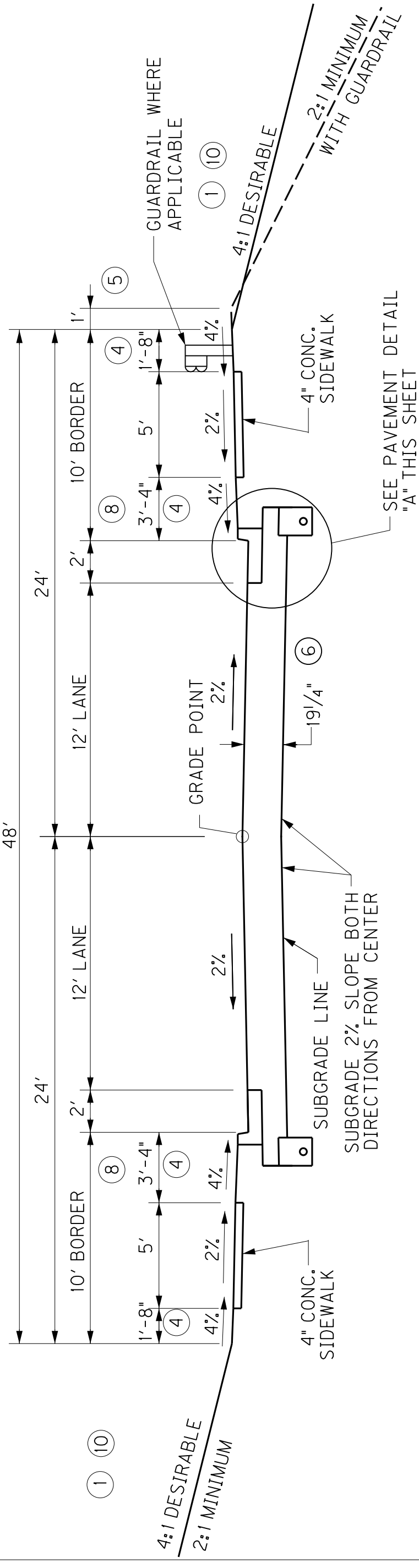
SCALE: 1"= 5'

TYPICAL SECTIONS  
US 421/KY 80 WIDENING  
2 LANE RURAL

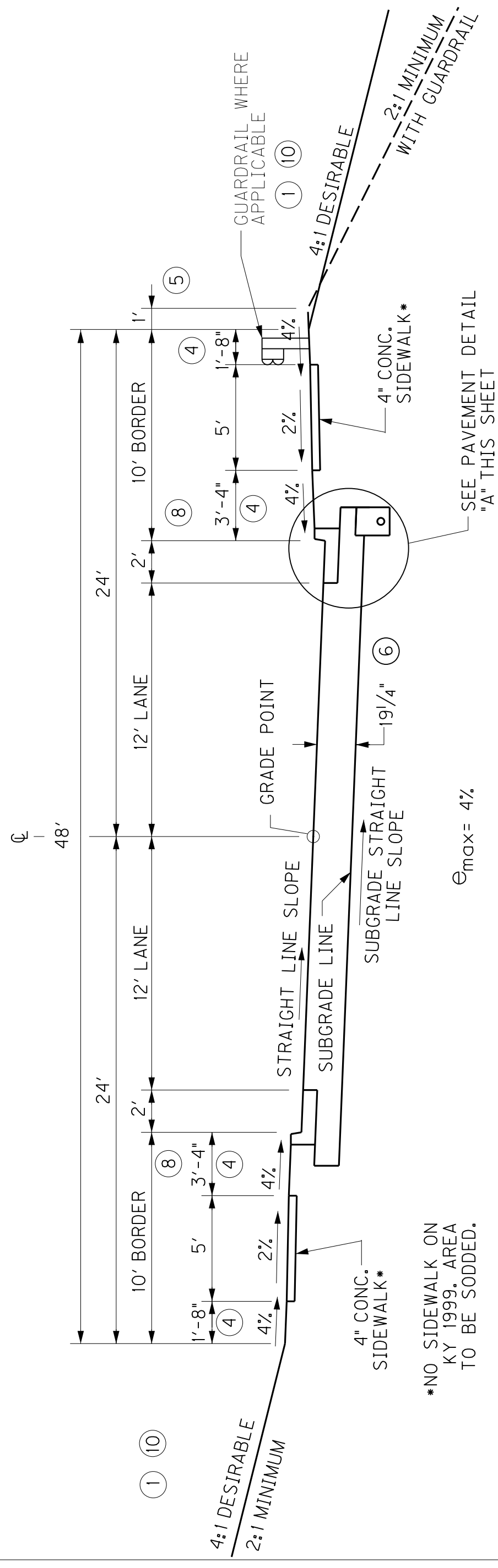


# TYPICAL SECTIONS

## URBAN APPROACH/LOCAL ACCESS ROADS



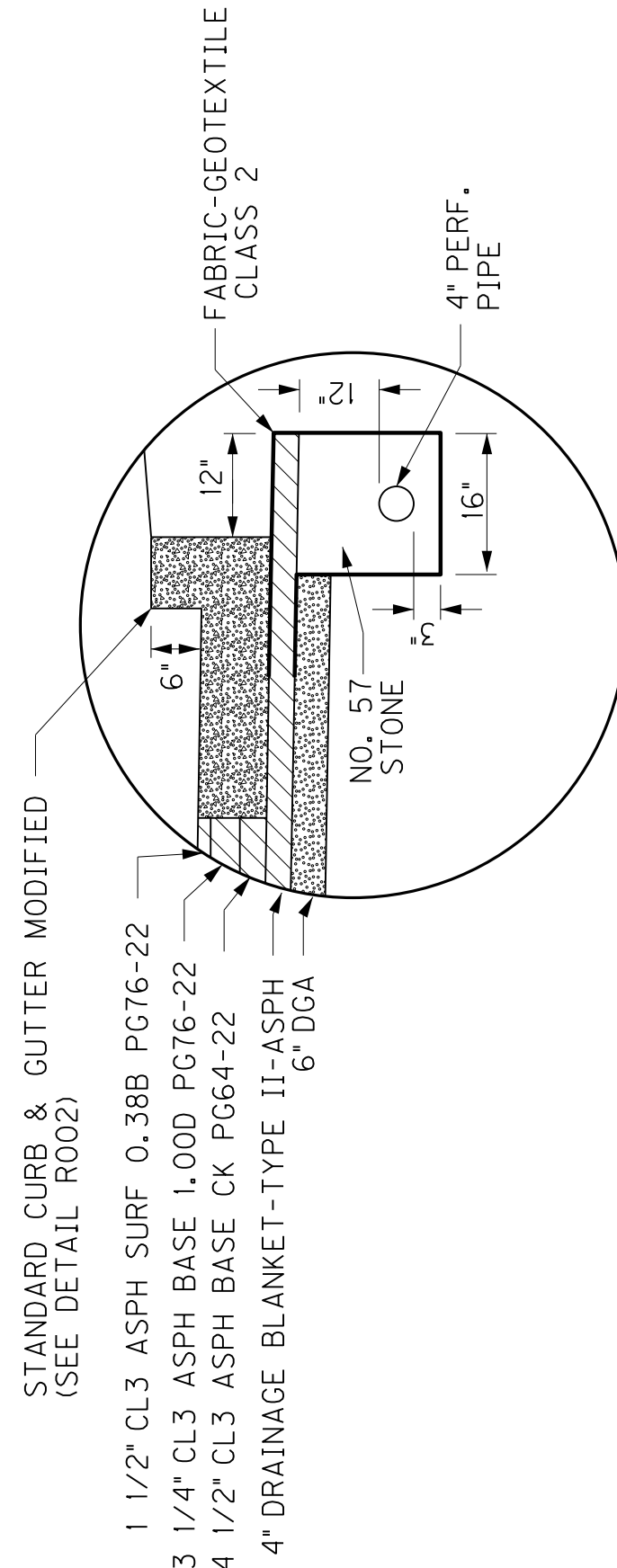
### NORMAL FILL /CUT SECTION



### SUPERELEVATION FILL /CUT SECTION

## URBAN APPROACH ROADS

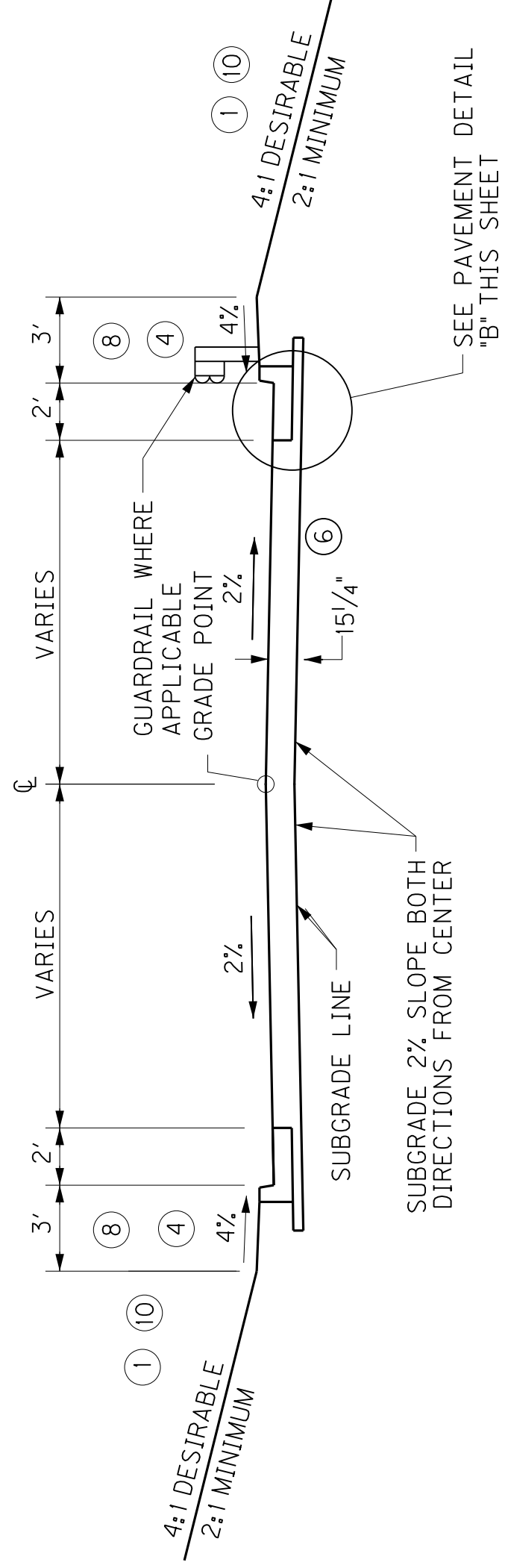
KY 3480, KY 11



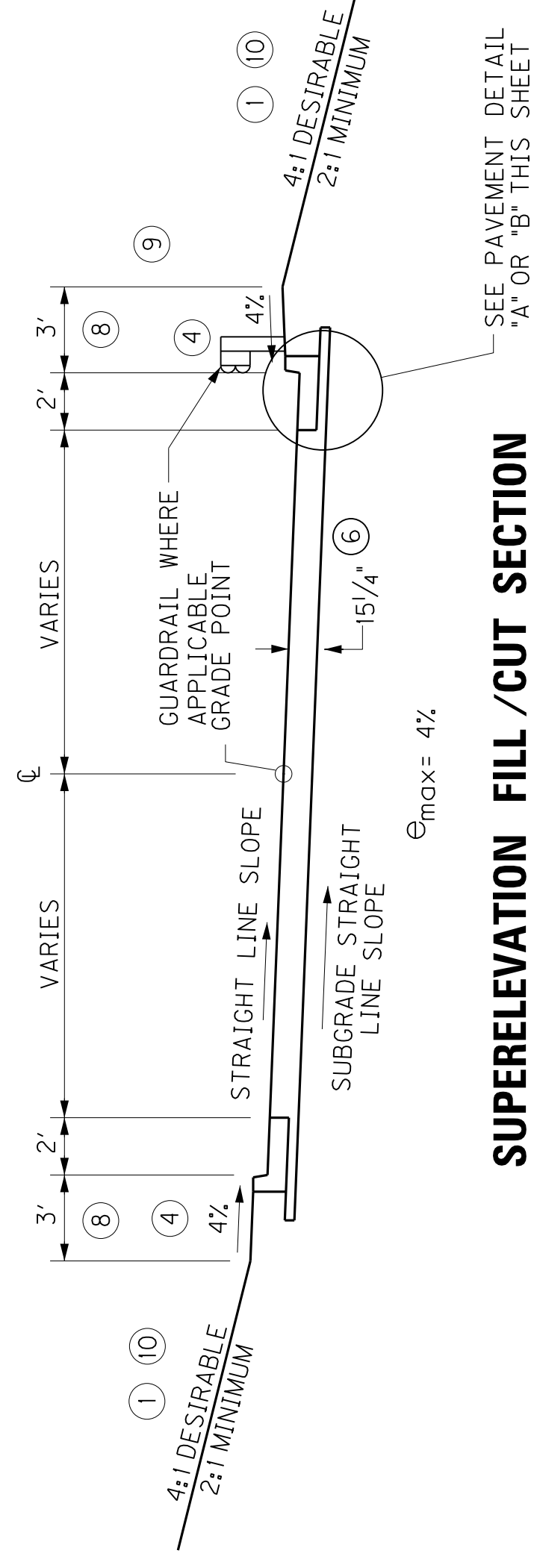
### DETAIL "A"

N. T. S.

**CURB & GUTTER PAVEMENT**  
USE DETAIL "A" FOR  
PACES CREEK ELEM. ENTRANCES,  
BUS GARAGE ENTR.



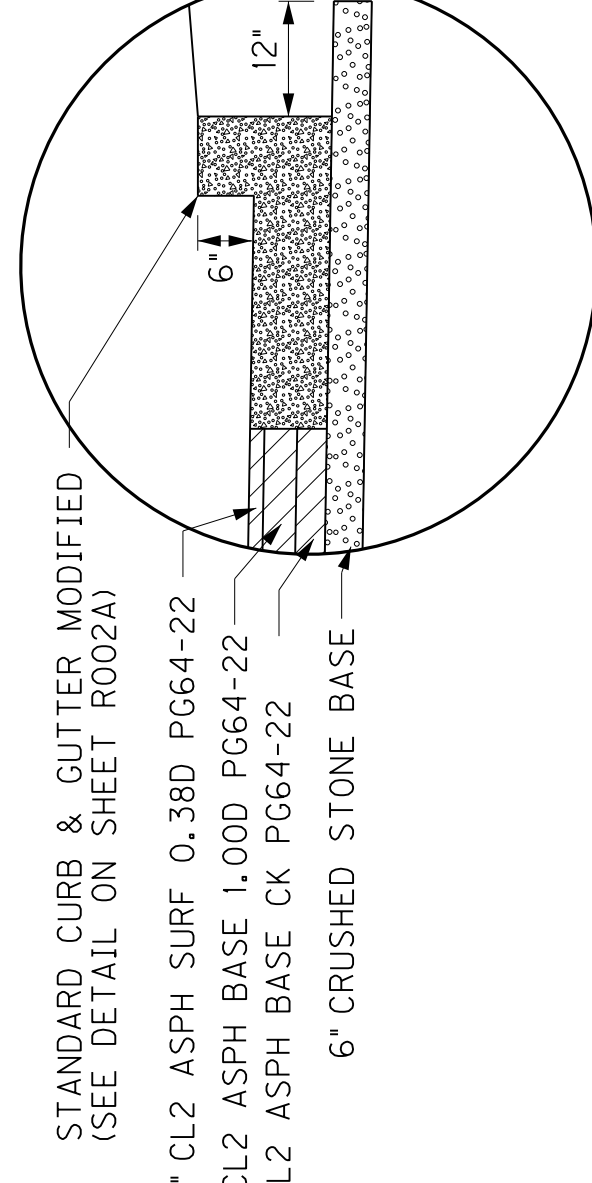
### NORMAL FILL /CUT SECTION



### SUPERELEVATION FILL /CUT SECTION

## URBAN LOCAL ACCESS ROADS

SWAFFORD ST., HORSE CREEK ELEM. ENTR.,  
OLD TIMERS ROAD, PACES CREEK ELEM.  
ENTRANCES, BUS GARAGE ENTR.,  
LAR NO. 1, 2, 3, 4, 5, 6, & 7



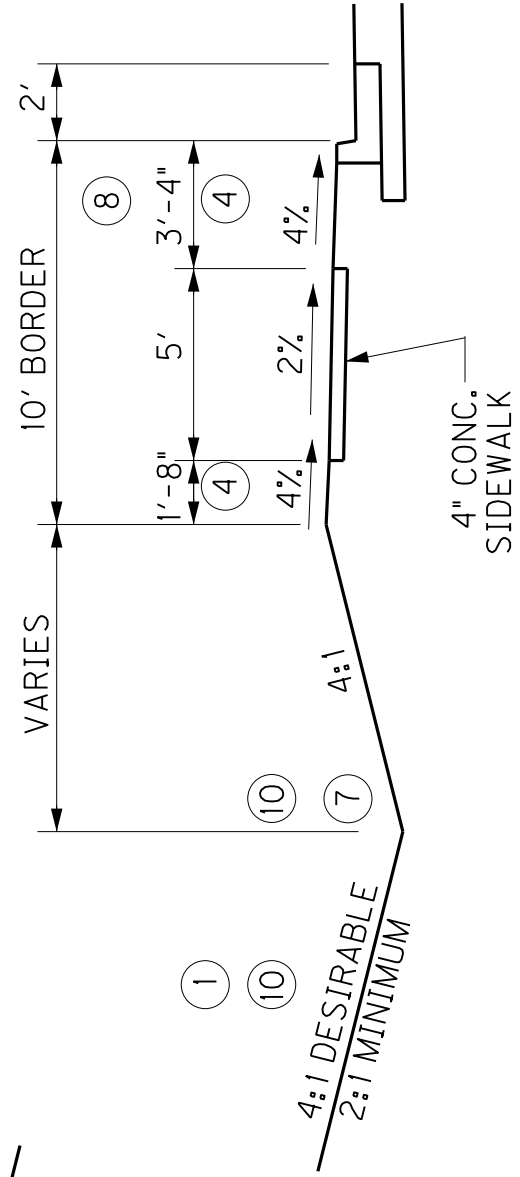
### DETAIL "B"

N. T. S.

**CURB & GUTTER PAVEMENT**  
USE DETAIL "B" FOR  
SWAFFORD ST., HORSE CREEK ELEM. ENTR.,  
OLD TIMERS ROAD, LAR NO. 1, 2, 3, 4, 5, 6, & 7)

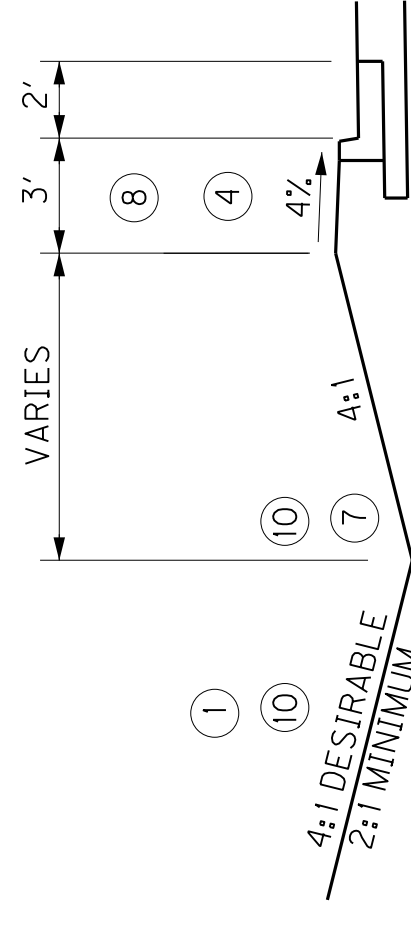
### NOTES

- SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS.
- SUPERELEVATED SHOULDER TO BE CONSTRUCTED TO SUPERELEVATION RATE. AT NO TIME WILL THE SLOPE BE FLATTER THAN THE SLOPE INDICATED FOR NORMAL SECTION.
- REFILL MATERIAL TO CONFORM TO APPLICABLE SECTIONS OF THE CURRENT EDITION OF KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- AREA BETWEEN THE BACK OF CURB AND THE SIDEWALK AND THE OUTER PORTION OF THE BORDER, WILL BE SODDED.
- SHOULDERS SHALL BE WIDENED 1' WHERE GUARDRAIL IS TO BE INSTALLED.
- SUBGRADE MATERIAL SHALL CONFORM TO AND BE PLACED AND COMPACTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CURRENT EDITION OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SUBGRADE MATERIAL SHALL BE CAPABLE OF PROVIDING A MINIMUM CBR VALUE OF 6.
- SEE PLANS FOR CHANNEL LINING REQUIREMENTS
- CONTRARY TO STANDARD DRAWING NUMBER RPM - 150 USE WIDTH INDICATED, SEE DETAIL SHEET R089.
- RT. SIDE OF PACES CREEK ELEM. ENTR., USE TYPICAL CUT DITCH SECTION FOR APPROACH ROADS AND PACES CREEK ELEM. ENTR.
- EROSION CONTROL BLANKET IS REQUIRED ON DISTURBED AREAS NOT SODDED OR PROTECTED BY OTHER MEANS IN LIEU OF SEEDING.



### TYPICAL CUT DITCH SECTION FOR APPROACH ROADS AND PACES CREEK ELEM. ENTR.

N. T. S.



### TYPICAL CUT DITCH SECTION FOR LOCAL ACCESS ROADS

N. T. S.

SCALE: 1"= 5'

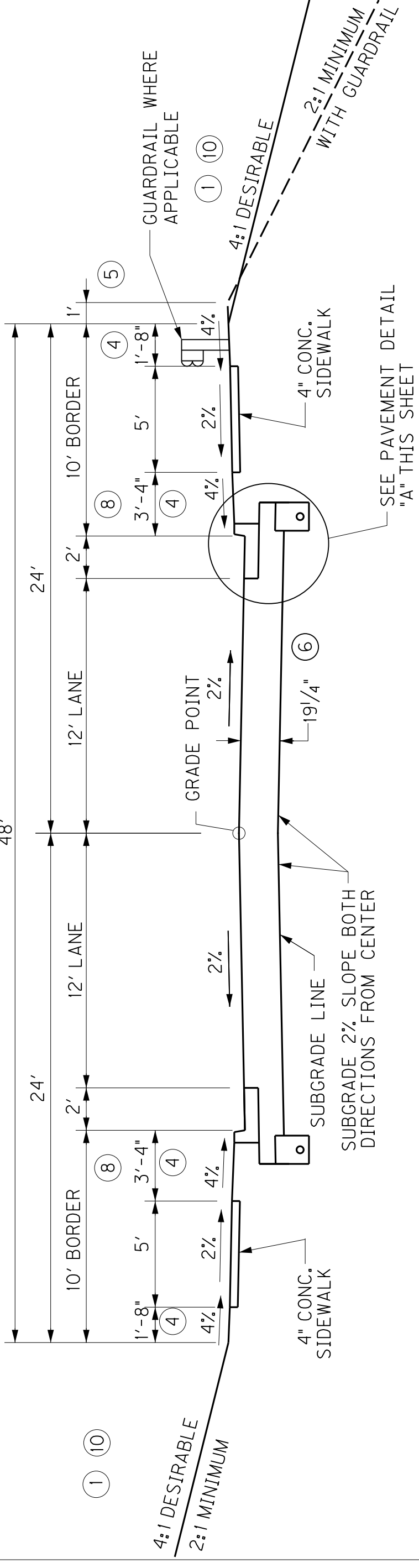


TYPICAL SECTIONS  
US 421/KY 80 WIDENING  
URBAN APPROACH/LOCAL ACCESS ROADS

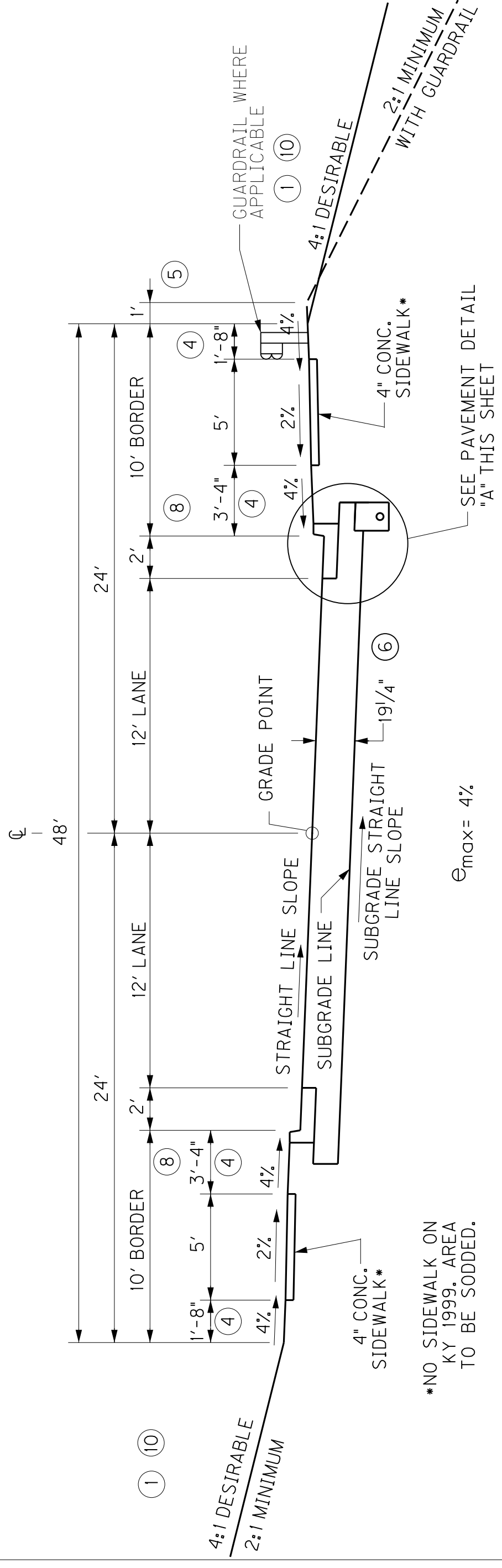


# TYPICAL SECTIONS

## URBAN APPROACH/LOCAL ACCESS ROADS



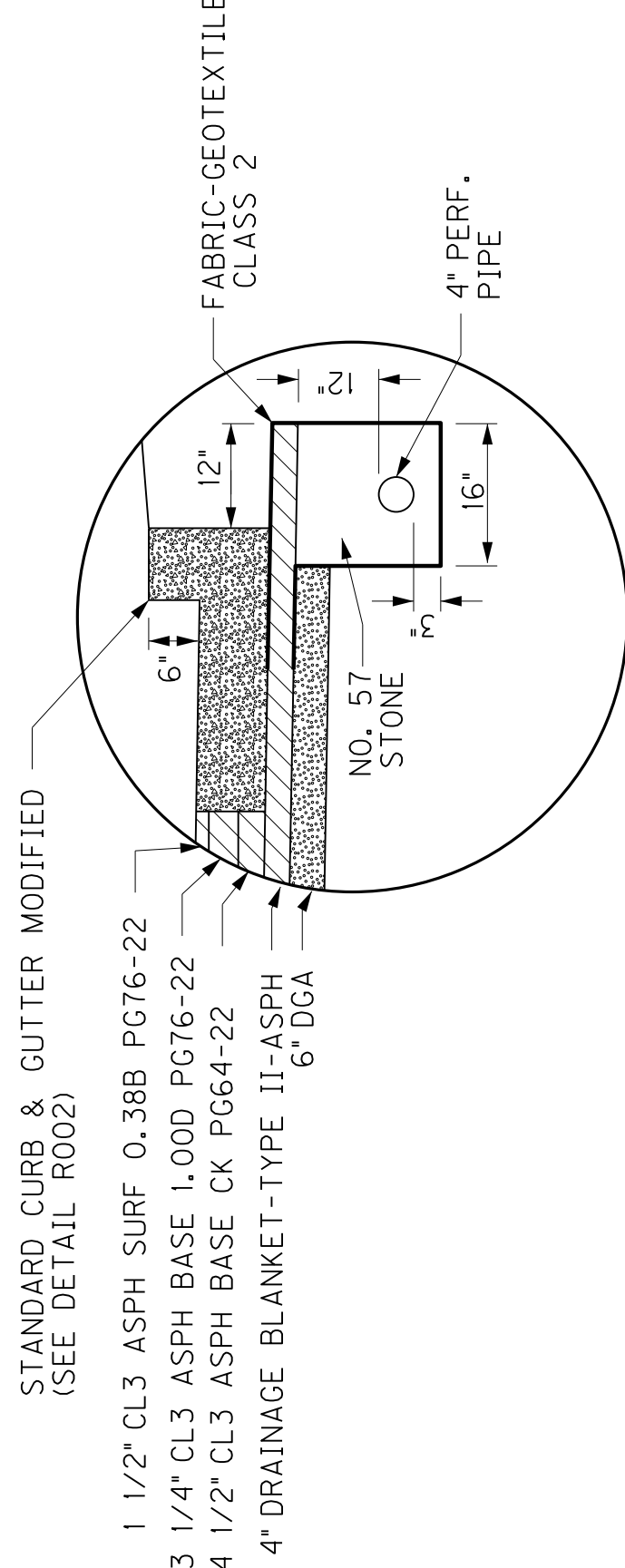
### NORMAL FILL /CUT SECTION



### SUPERELEVATION FILL /CUT SECTION

## URBAN APPROACH ROADS

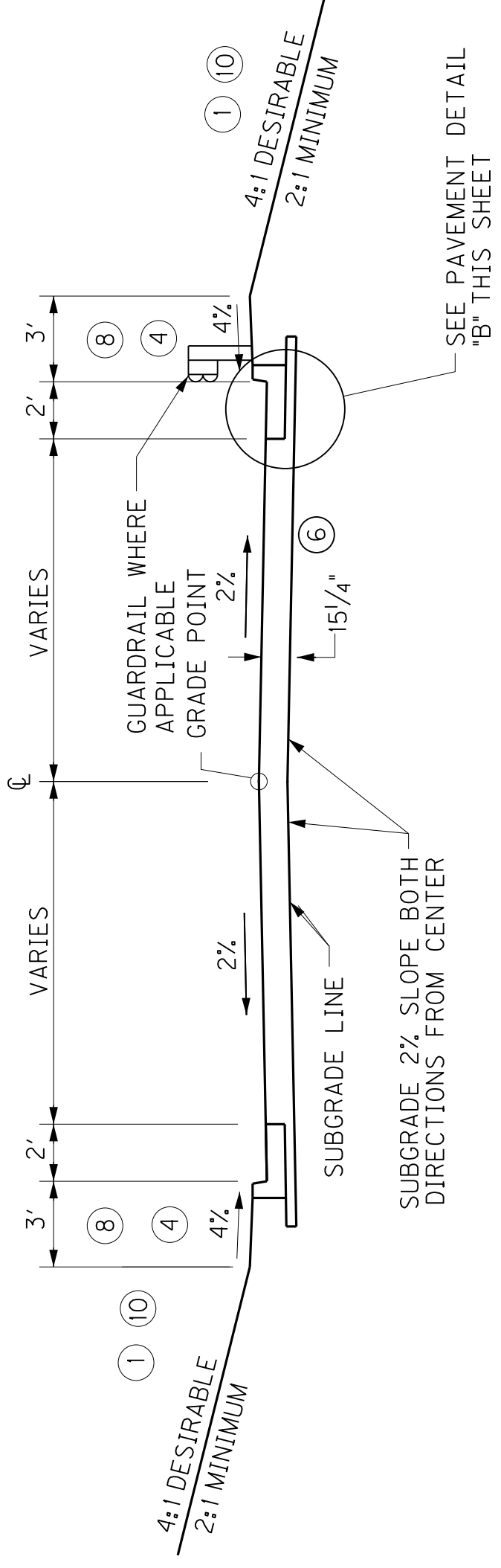
KY 3480, KY 11



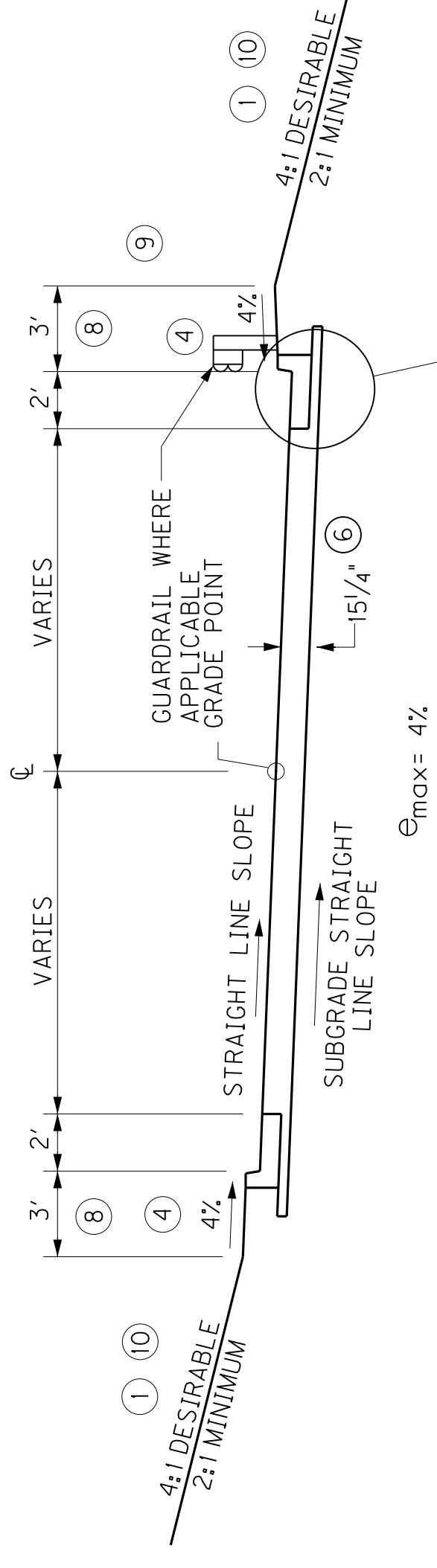
### DETAIL "A"

N. T. S.

**CURB & GUTTER PAVEMENT**  
USE DETAIL "A" FOR  
PACES CREEK ELEM. ENTRANCES,  
BUS GARAGE ENTR.



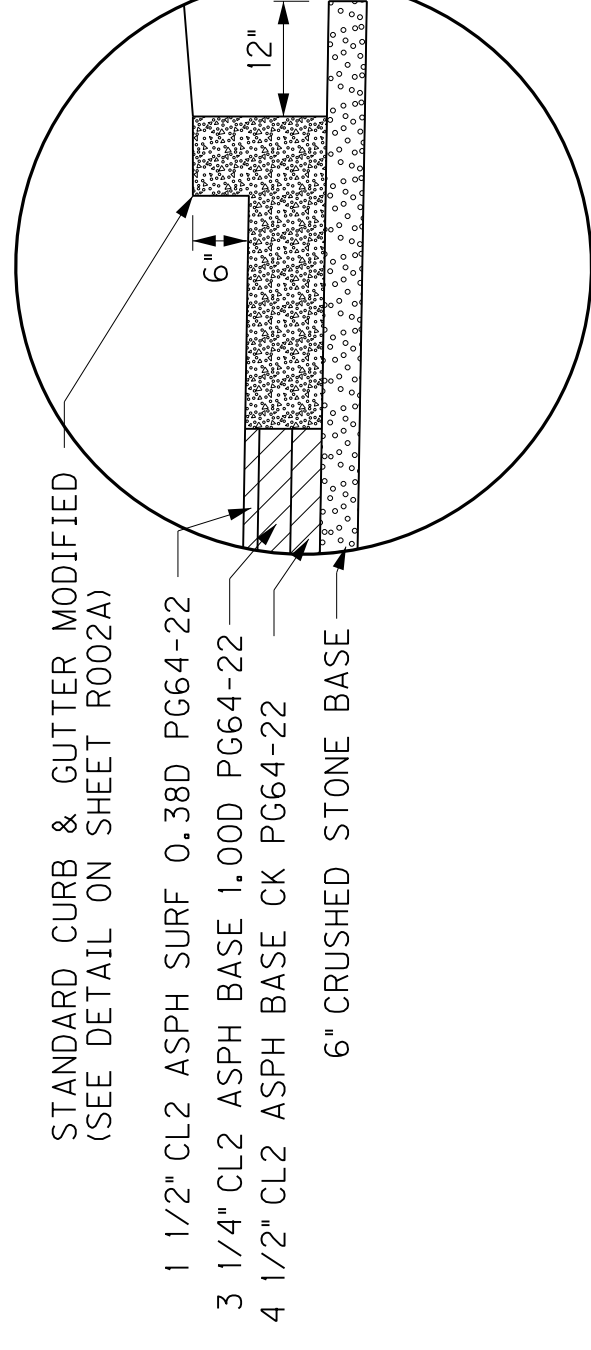
### NORMAL FILL /CUT SECTION



### SUPERELEVATION FILL /CUT SECTION

## URBAN LOCAL ACCESS ROADS

SWAFFORD ST., HORSE CREEK ELEM. ENTR.,  
OLD TIMERS ROAD, PACES CREEK ELEM.  
ENTRANCES, BUS GARAGE ENTR.,  
LAR NO. 1, 2, 3, 4, 5, 6, & 7



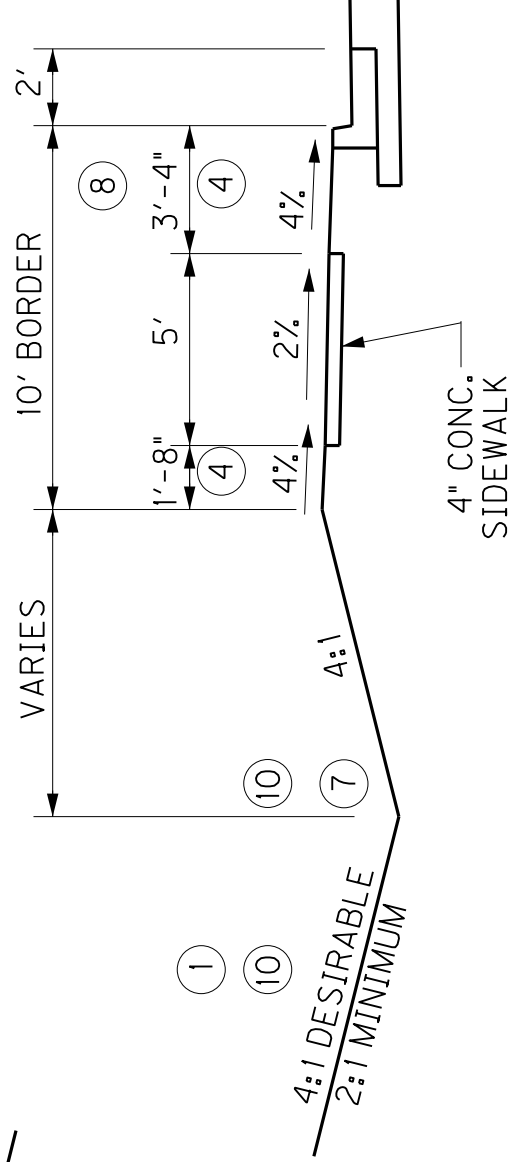
### DETAIL "B"

N. T. S.

**CURB & GUTTER PAVEMENT**  
USE DETAIL "B" FOR  
SWAFFORD ST., HORSE CREEK ELEM. ENTR.,  
OLD TIMERS ROAD, LAR NO. 1, 2, 3, 4, 5, 6, & 7)

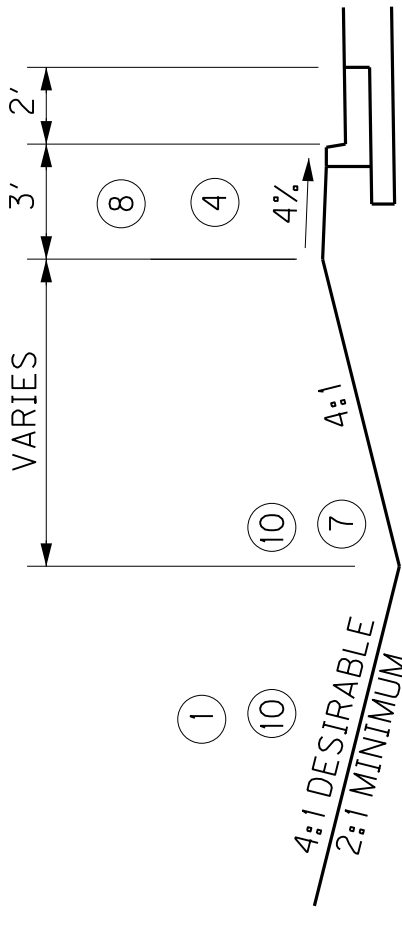
### NOTES

- SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS.
- SUPERELEVATED SHOULDER TO BE CONSTRUCTED TO SUPERELEVATION RATE. AT NO TIME WILL THE SLOPE BE FLATTER THAN THE SLOPE INDICATED FOR NORMAL SECTION.
- REFILL MATERIAL TO CONFORM TO APPLICABLE SECTIONS OF THE CURRENT EDITION OF KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE OUTER PORTION OF THE BORDER, WILL BE SODDED.
- SHOULDERS SHALL BE WIDENED 1' WHERE GUARDRAIL IS TO BE INSTALLED.
- SUBGRADE MATERIAL SHALL CONFORM TO AND BE PLACED AND COMPACTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CURRENT EDITION OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SUBGRADE MATERIAL SHALL BE CAPABLE OF PROVIDING A MINIMUM CBR VALUE OF 6.
- SEE PLANS FOR CHANNEL LINING REQUIREMENTS
- CONTRARY TO STANDARD DRAWING NUMBER RPM - 150 USE WIDTH INDICATED, SEE DETAIL SHEET R089.
- RT. SIDE OF PACES CREEK ELEM. ENTR., USE TYPICAL CUT DITCH SECTION FOR APPROACH ROADS AND PACES CREEK ELEM. ENTR.
- EROSION CONTROL BLANKET IS REQUIRED ON DISTURBED AREAS NOT SODDED OR PROTECTED BY OTHER MEANS IN LIEU OF SEEDING.



### TYPICAL CUT DITCH SECTION FOR APPROACH ROADS AND PACES CREEK ELEM. ENTR.

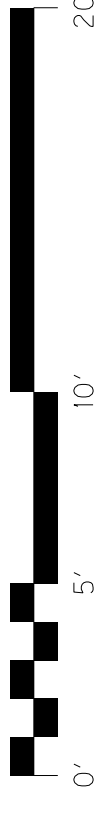
N. T. S.



### TYPICAL CUT DITCH SECTION FOR LOCAL ACCESS ROADS

N. T. S.

SCALE: 1"= 5'

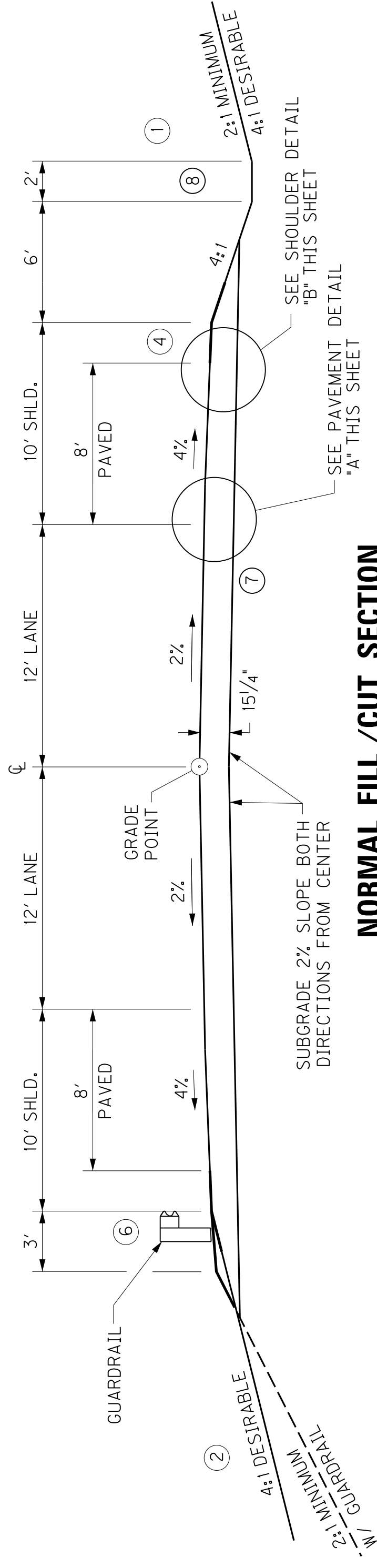


TYPICAL SECTIONS  
US 421/KY 80 WIDENING  
URBAN APPROACH/LOCAL ACCESS ROADS

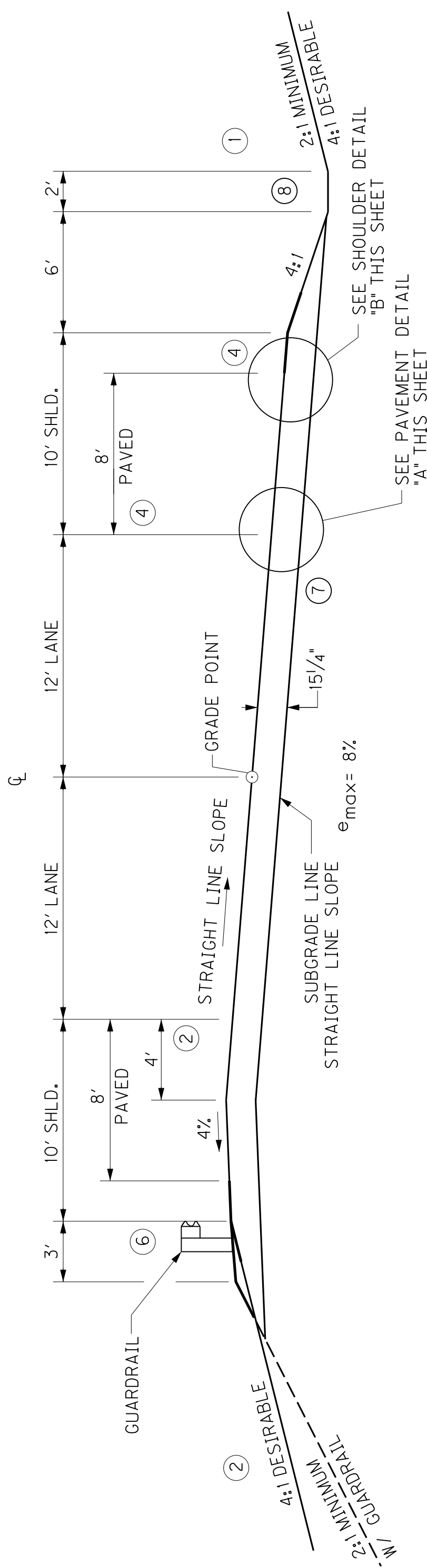


# TYPICAL SECTIONS

## RURAL APPROACH/LOCAL ACCESS ROADS



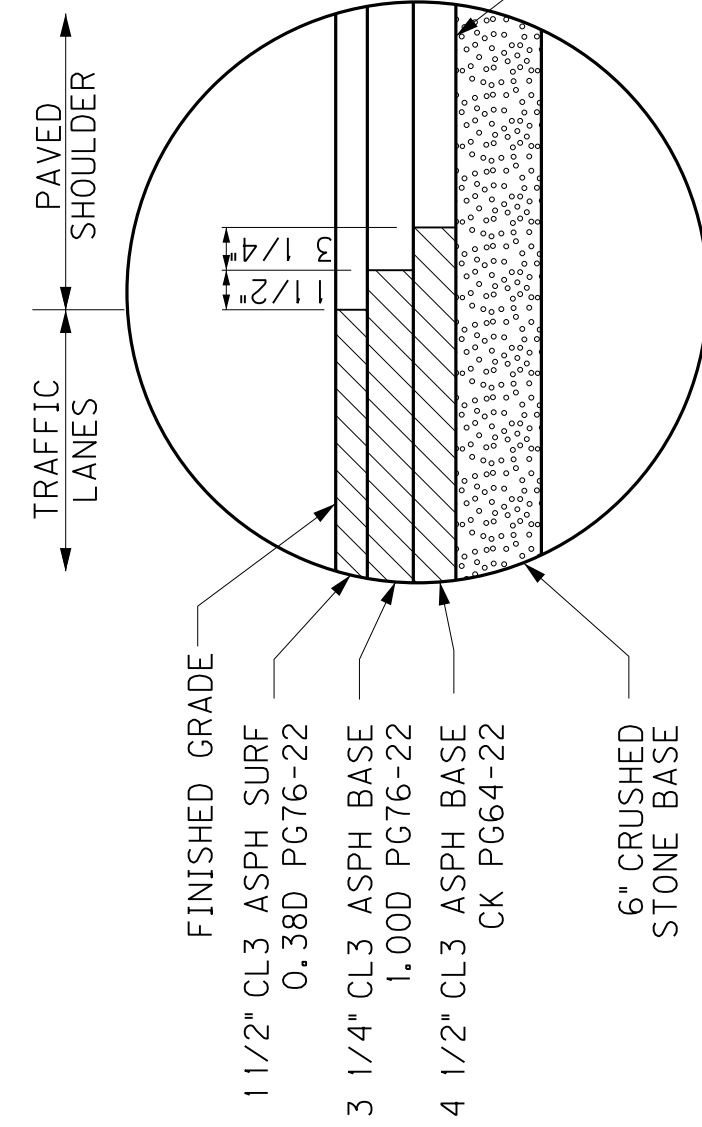
**NORMAL FILL /CUT SECTION**



**SUPERELEVATION FILL /CUT SECTION**

# RURAL APPROACH ROAD

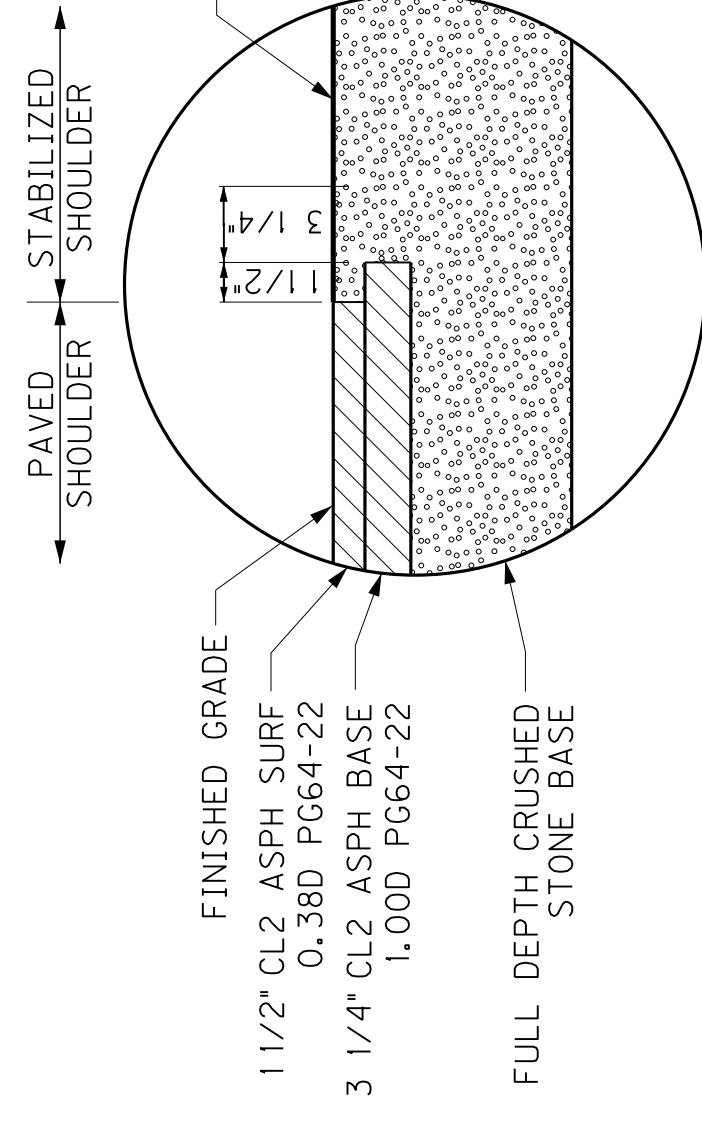
KY 149



**DETAIL "A"**

N. T. S.

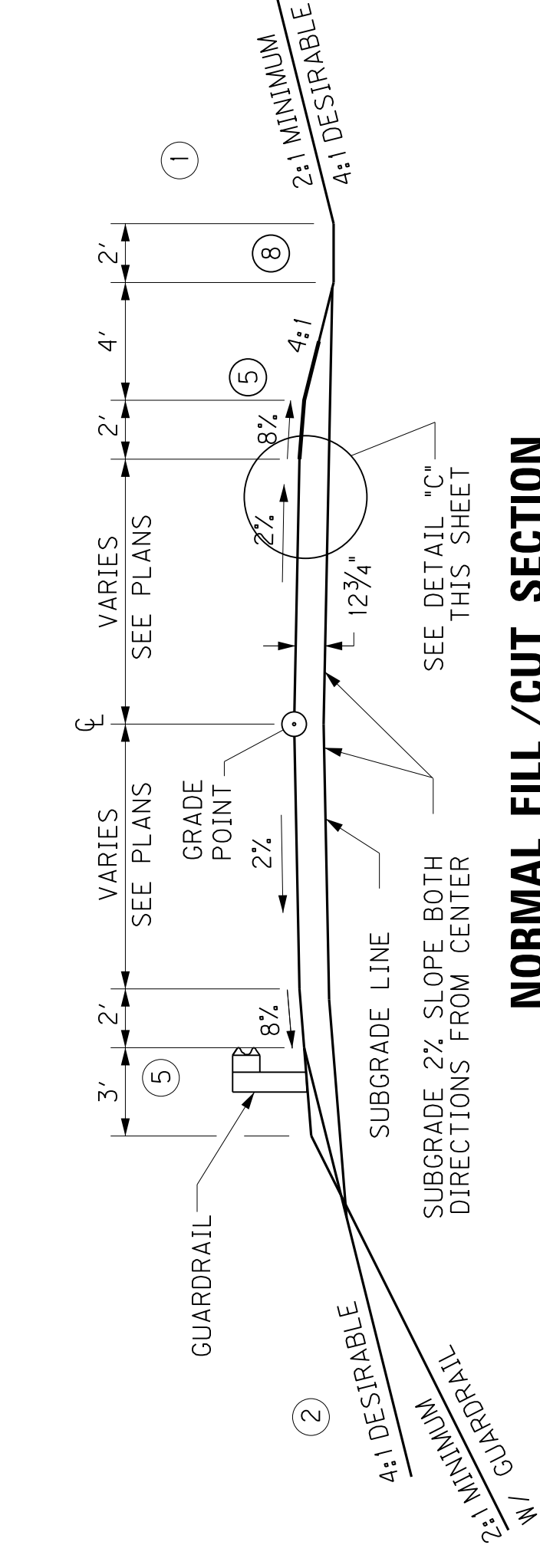
APPROACH ROAD TRAFFIC LANE PAVEMENT



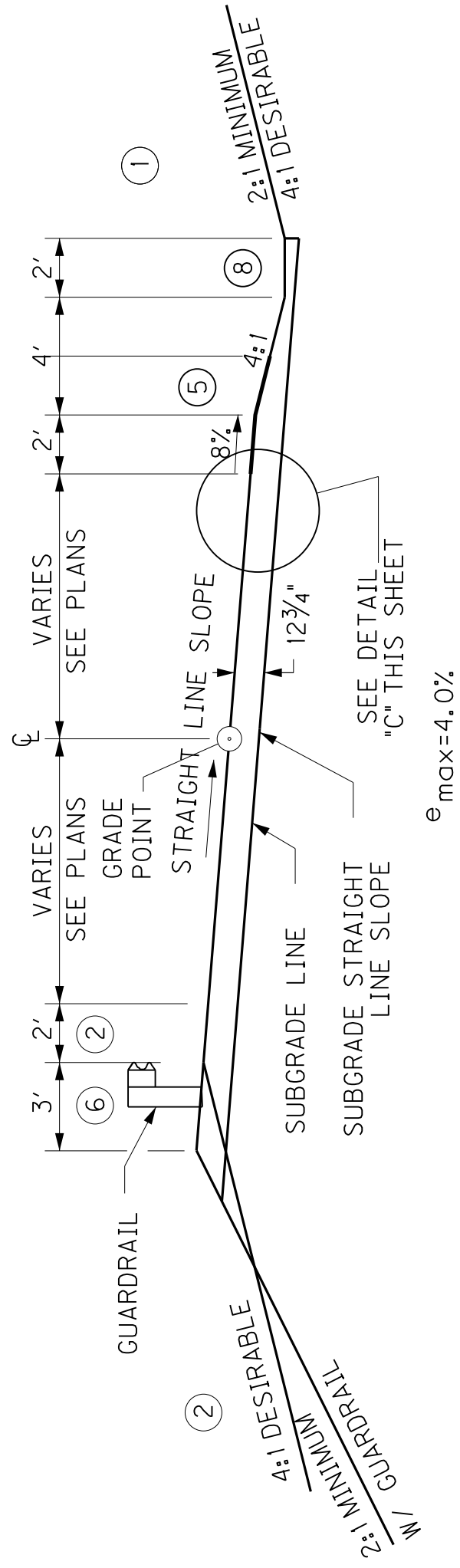
**DETAIL "B"**

N. T. S.

APPROACH ROAD SHOULDER PAVEMENT



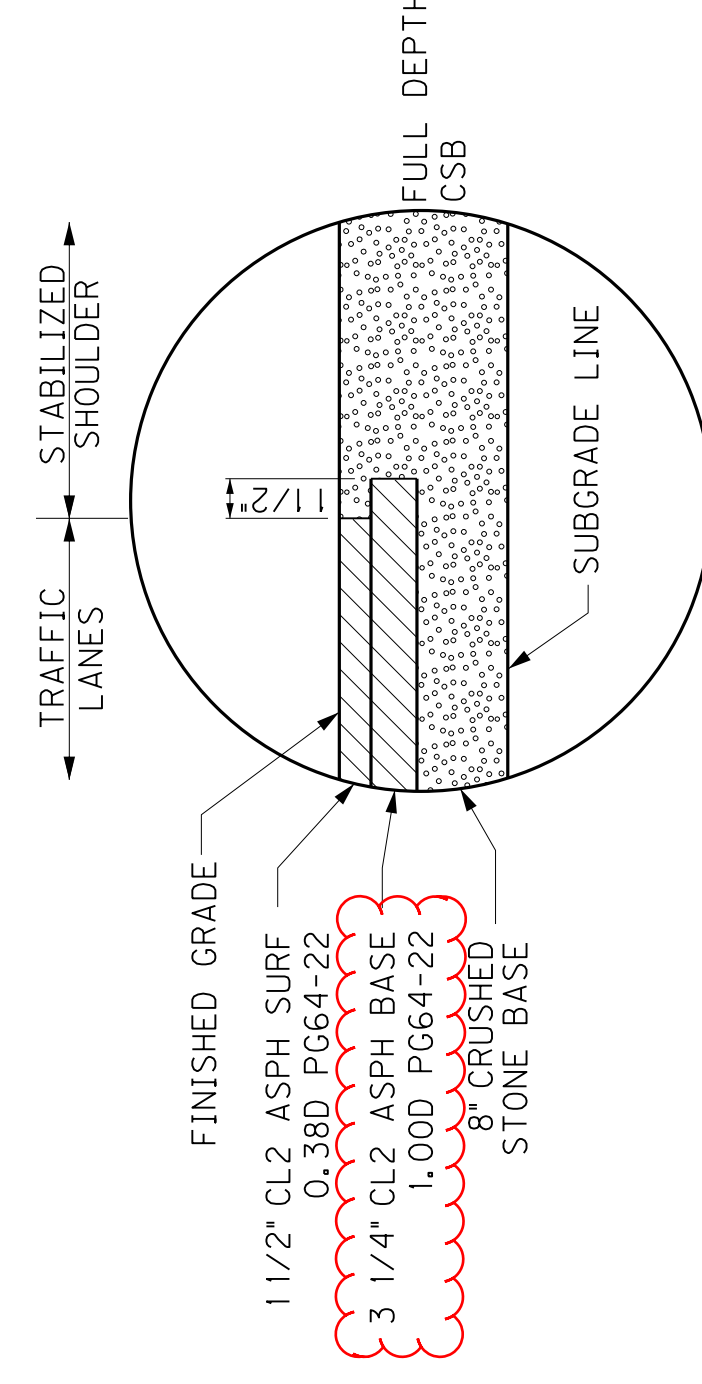
**NORMAL FILL /CUT SECTION**



**SUPERELEVATION FILL /CUT SECTION**

# RURAL LOCAL ACCESS ROADS

STACY BRANCH RD., DAIRY FARM RD.



**DETAIL "C"**

N. T. S.

LOCAL ACCESS ROAD TRAFFIC LANE PAVEMENT AND SHOULDER

**NOTES**

- 1 SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS.
- 2 SUPERELEVATED SHOULDER TO BE CONSTRUCTED TO SUPERELEVATION RATE. AT NO TIME WILL THE SLOPE BE FLATTER THAN THE SLOPE INDICATED FOR NORMAL SECTION.
- 3 REFILL MATERIAL TO CONFORM TO APPLICABLE SECTIONS OF THE CURRENT EDITION OF KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 4 ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
- 5 ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVEMENT TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
- ASPHALT SEAL COAT @ 2.40 LBS./S.Y. (2 APPLICATIONS)  
ASPHALT SEAL AGGREGATE @ 2.65 LBS./S.Y. (CRUSHED AGGREGATE SIZE NO.8 OR 3M)
- 6 SHOULDERS SHALL BE WIDENED 3' WHERE GUARDRAIL IS TO BE INSTALLED.
- 7 SUBGRADE MATERIAL SHALL CONFORM TO AND BE PLACED AND COMPACTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CURRENT EDITION OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SUBGRADE MATERIAL SHALL BE CAPABLE OF PROVIDING A MINIMUM CBR VALUE OF 6.
- 8 SEE PLANS FOR CHANNEL LINING REQUIREMENTS

**PAVEMENT SCHEDULE**

APPROACH ROAD TRAFFIC LANES	6" DEPTH CRUSHED STONE BASE CL3 ASPH BASE CK PG64-22 CL3 ASPH BASE 1,000 PG76-22 CL3 ASPH SURF 0.388 PG76-22
-----------------------------	--

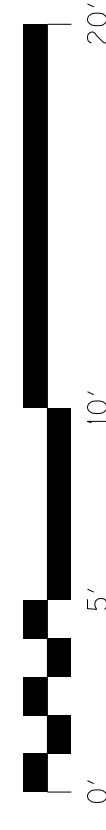
APPROACH ROAD SHOULDERS

CRUSHED STONE BASE	FULL DEPTH
CL2 ASPH BASE 1,000 PG64-22	3 1/4" DEPTH
CL2 ASPH SURF 0.388 PG64-22	1 1/2" DEPTH

LOCAL ACCESS ROAD TRAFFIC LANES

CRUSHED STONE BASE	8" DEPTH
CL2 ASPH BASE 1,000 PG64-22	3 1/4" DEPTH
CL2 ASPH SURF 0.388 PG64-22	1 1/2" DEPTH

ASPHALT MATERIAL FOR TACK NON-TRACKING @ 0.84 LBS./S.Y. (0.10 GAL./S.Y.) BETWEEN EACH COURSE OF ASPHALT



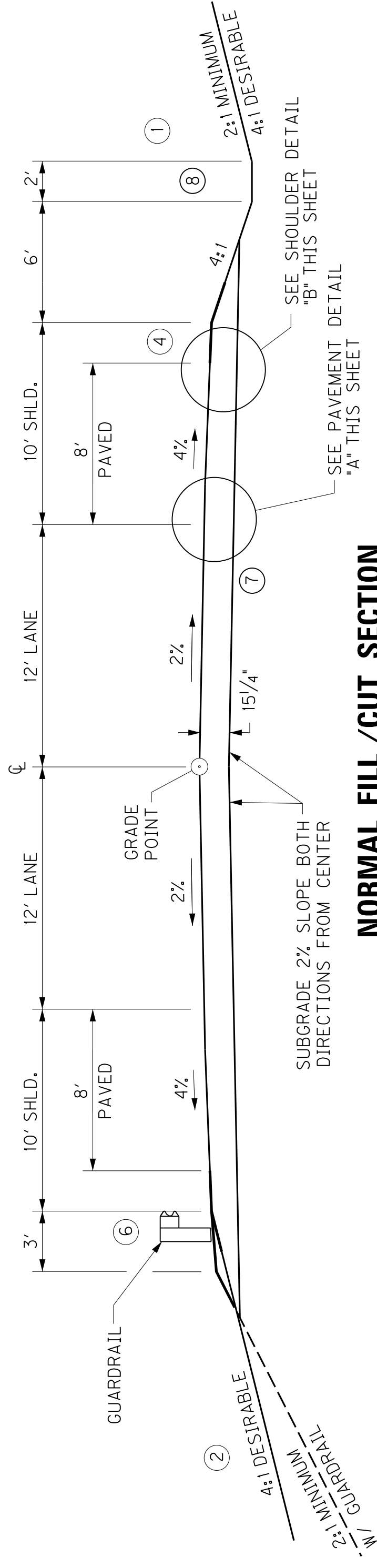
SCALE: 1"= 5'

TYPICAL SECTIONS  
US 421/KY 80 WIDENING  
RURAL APPROACH/LOCAL ACCESS ROADS

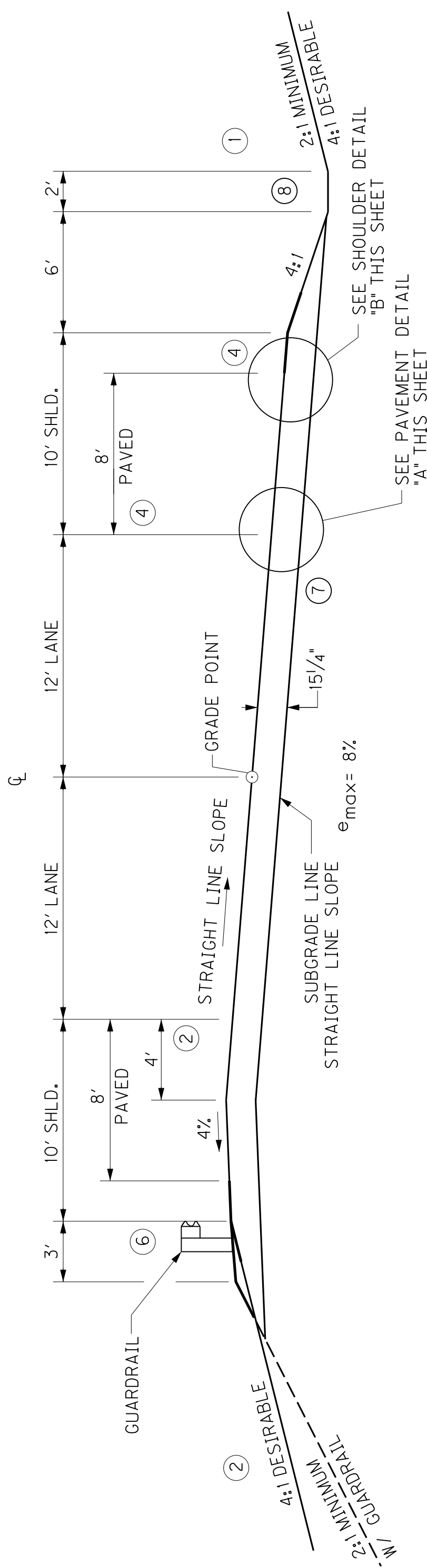


# TYPICAL SECTIONS

## RURAL APPROACH/LOCAL ACCESS ROADS



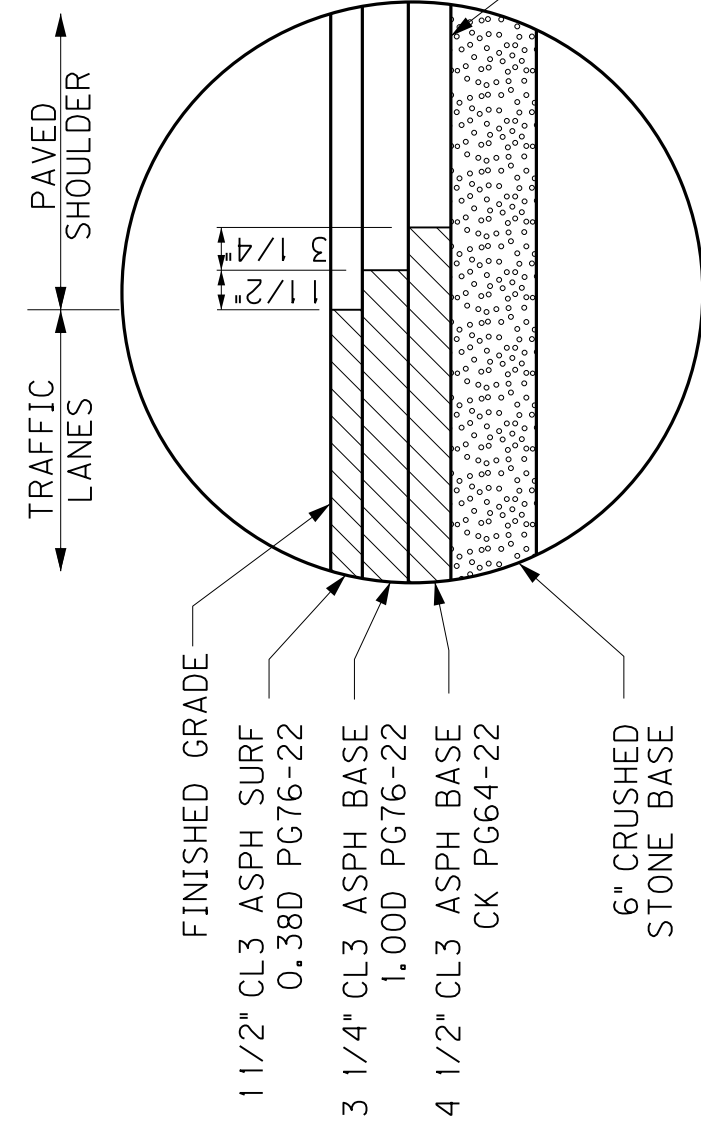
**NORMAL FILL /CUT SECTION**



**SUPERELEVATION FILL /CUT SECTION**

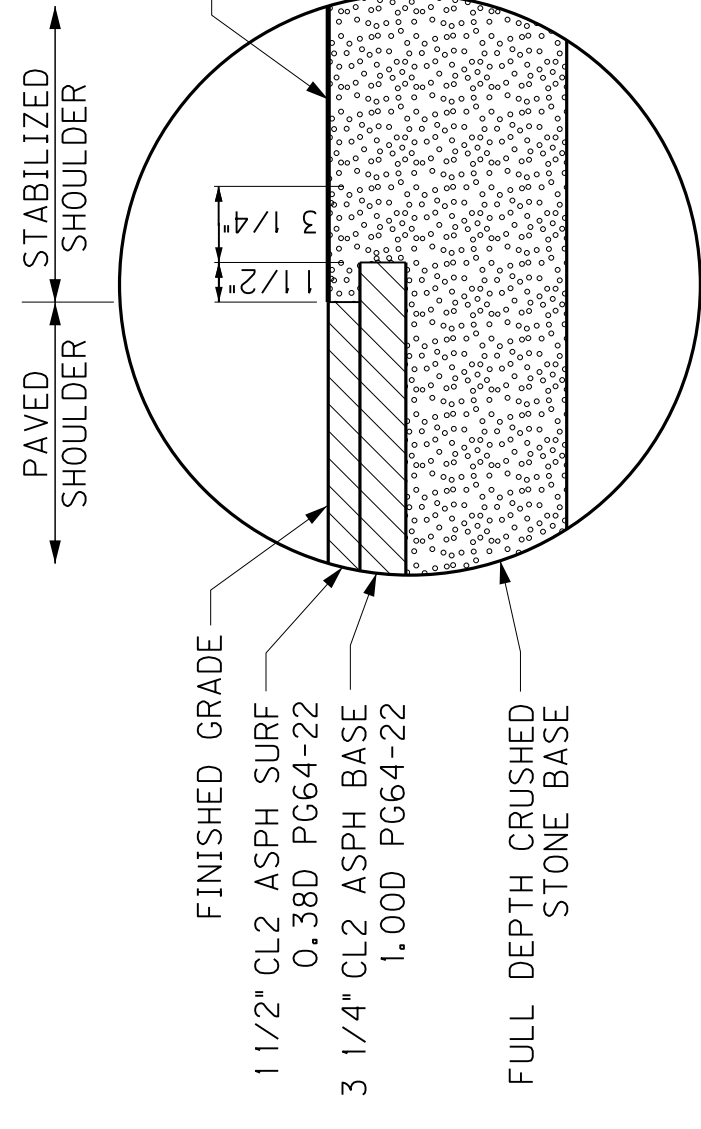
# RURAL APPROACH ROAD

KY 149



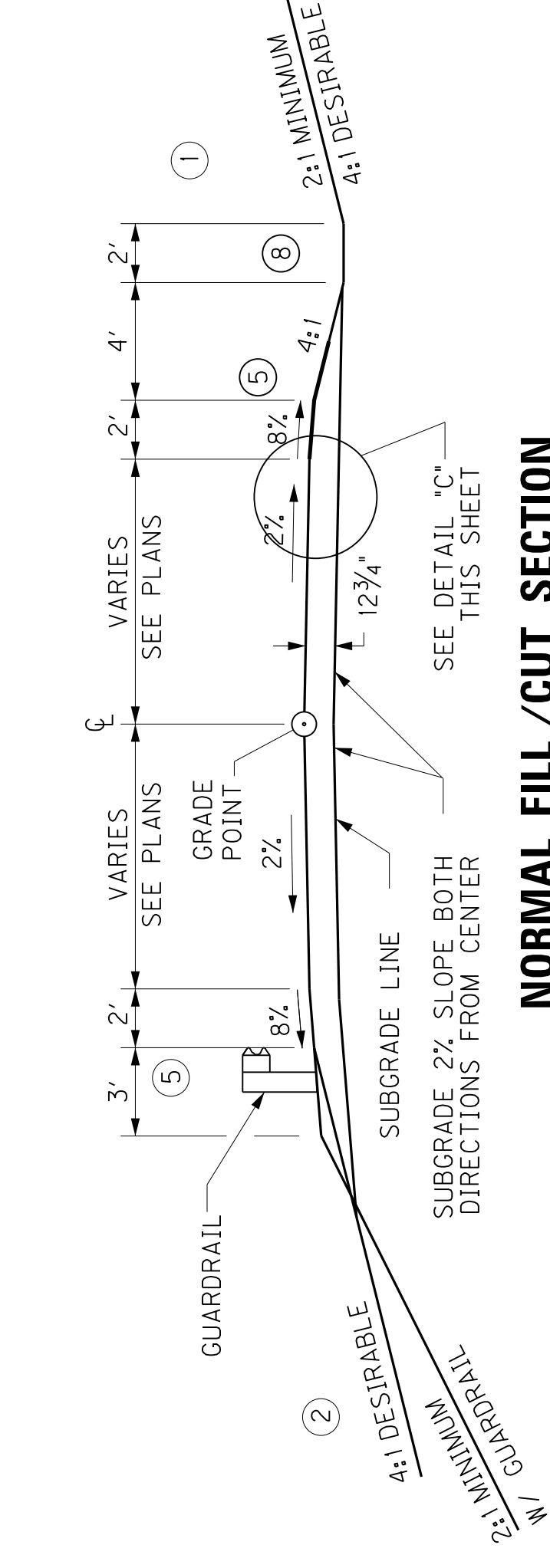
**DETAIL "A"**

APPROACH ROAD TRAFFIC LANE PAVEMENT

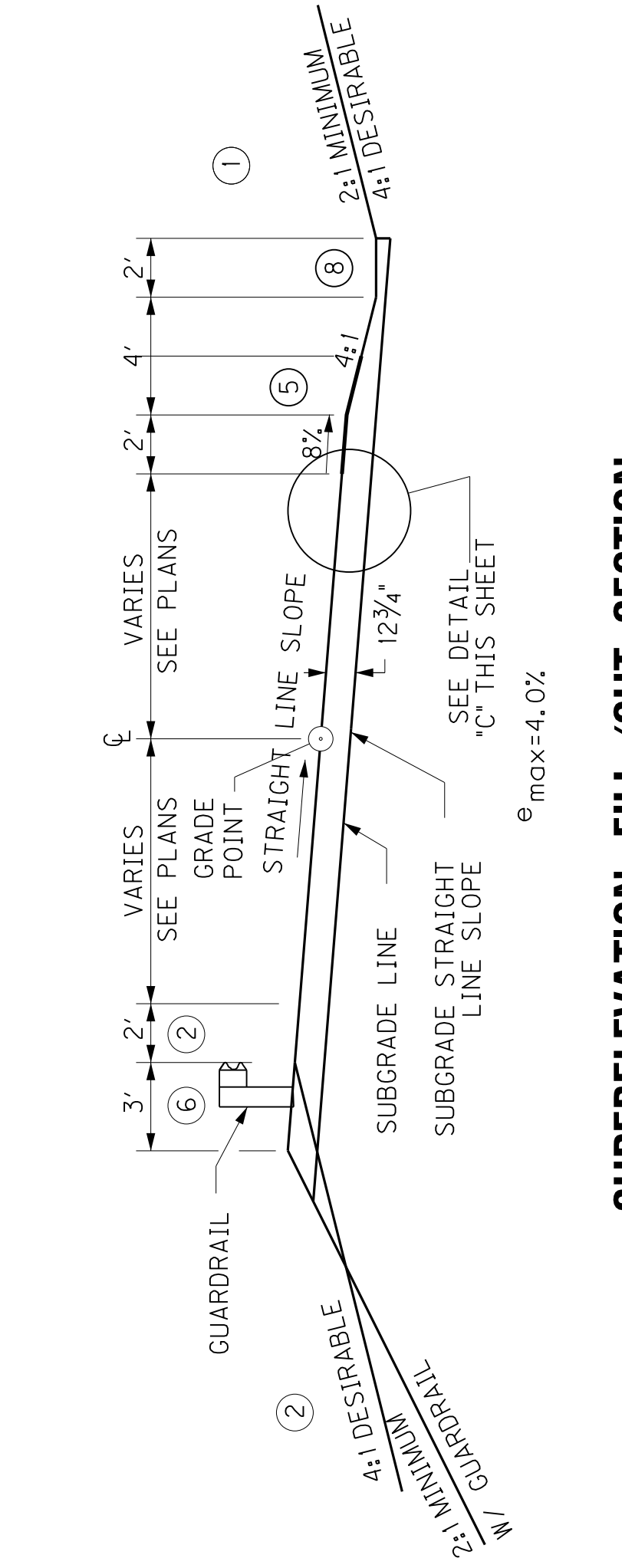


**DETAIL "B"**

APPROACH ROAD SHOULDER PAVEMENT



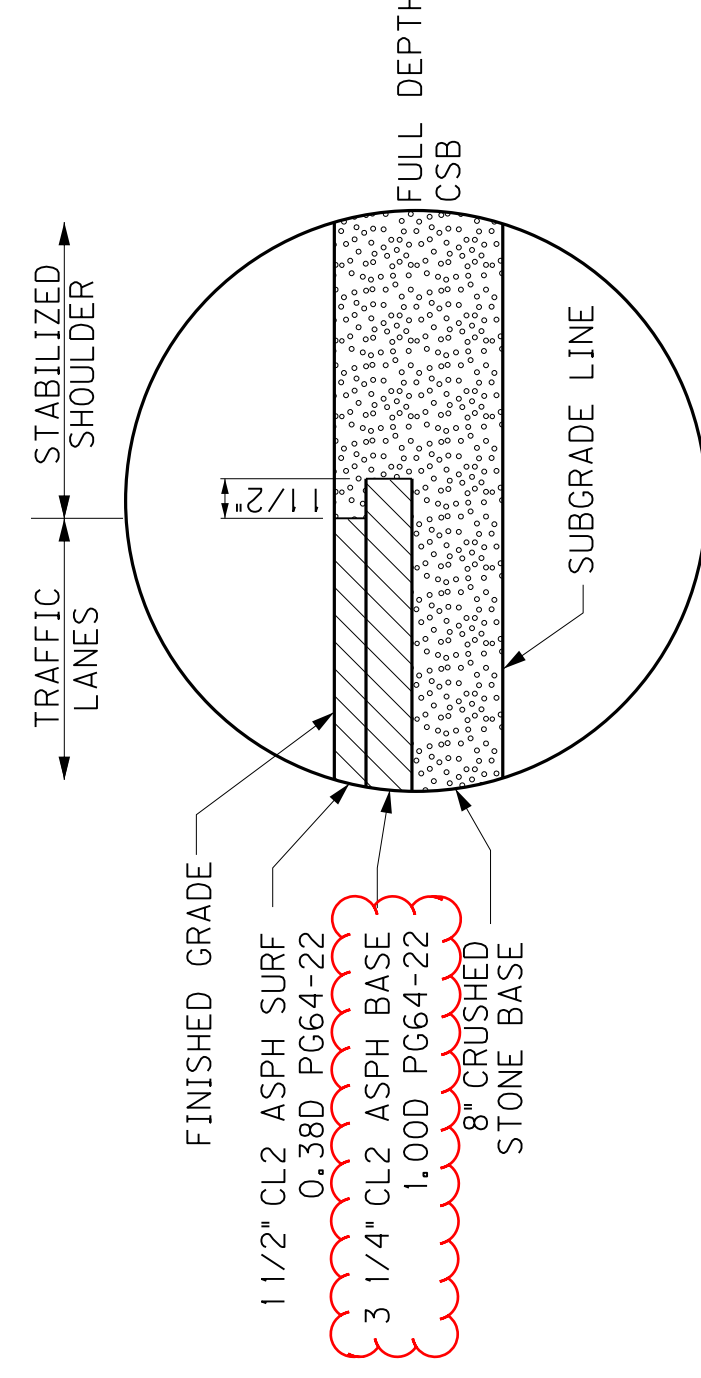
**NORMAL FILL /CUT SECTION**



**SUPERELEVATION FILL /CUT SECTION**

# RURAL LOCAL ACCESS ROADS

STACY BRANCH RD., DAIRY FARM RD.



**DETAIL "C"**

LOCAL ACCESS ROAD TRAFFIC LANE PAVEMENT AND SHOULDER

**NOTES**

- SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS.
- SUPERELEVATED SHOULDER TO BE CONSTRUCTED TO SUPERELEVATION RATE. AT NO TIME WILL THE SLOPE BE FLATTER THAN THE SLOPE INDICATED FOR NORMAL SECTION.
- REFILL MATERIAL TO CONFORM TO APPLICABLE SECTIONS OF THE CURRENT EDITION OF KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
- ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVEMENT TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
- ASPHALT SEAL COAT @ 2.40 LBS./S.Y. (2 APPLICATIONS)  
ASPHALT SEAL AGGREGATE @ 2.85 LBS./S.Y. (CRUSHED AGGREGATE SIZE NO.8 OR 3M)
- SHOULDERS SHALL BE WIDENED 3' WHERE GUARDRAIL IS TO BE INSTALLED.
- SUBGRADE MATERIAL SHALL CONFORM TO AND BE PLACED AND COMPACTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CURRENT EDITION OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SUBGRADE MATERIAL SHALL BE CAPABLE OF PROVIDING A MINIMUM CBR VALUE OF 6.
- SEE PLANS FOR CHANNEL LINING REQUIREMENTS

ASPHALT SEAL COAT @ 2.40 LBS./S.Y.  
ASPHALT SEAL AGGREGATE @ 2.85 LBS./S.Y.  
(CRUSHED AGGREGATE SIZE NO.8 OR 3M)

- SEE CROSS SECTIONS FOR SLOPES OUTSIDE THE LIMITS OF THE SHOULDERS.
- SUPERELEVATED SHOULDER TO BE CONSTRUCTED TO SUPERELEVATION RATE. AT NO TIME WILL THE SLOPE BE FLATTER THAN THE SLOPE INDICATED FOR NORMAL SECTION.
- REFILL MATERIAL TO CONFORM TO APPLICABLE SECTIONS OF THE CURRENT EDITION OF KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
- ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVEMENT TO A POINT 2' DOWN THE DITCH OR FILL SLOPE.
- ASPHALT SEAL COAT @ 2.40 LBS./S.Y. (2 APPLICATIONS)  
ASPHALT SEAL AGGREGATE @ 2.85 LBS./S.Y. (CRUSHED AGGREGATE SIZE NO.8 OR 3M)
- SHOULDERS SHALL BE WIDENED 3' WHERE GUARDRAIL IS TO BE INSTALLED.
- SUBGRADE MATERIAL SHALL CONFORM TO AND BE PLACED AND COMPACTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CURRENT EDITION OF THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SUBGRADE MATERIAL SHALL BE CAPABLE OF PROVIDING A MINIMUM CBR VALUE OF 6.
- SEE PLANS FOR CHANNEL LINING REQUIREMENTS

ASPHALT SEAL COAT @ 2.40 LBS./S.Y.  
ASPHALT SEAL AGGREGATE @ 2.85 LBS./S.Y.  
(CRUSHED AGGREGATE SIZE NO.8 OR 3M)

**PAVEMENT SCHEDULE**

APPROACH ROAD TRAFFIC LANES	6" DEPTH CRUSHED STONE BASE CL3 ASPH BASE CK PG64-22 CL3 ASPH BASE 1,00D PG76-22 CL3 ASPH SURF 0.38B PG76-22
-----------------------------	--

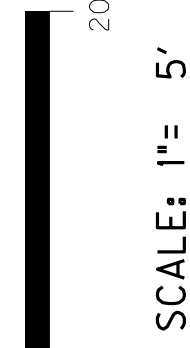
**APPROACH ROAD SHOULDERS**

CRUSHED STONE BASE	FULL DEPTH
CL2 ASPH BASE 1,00D PG64-22	3 1/4" DEPTH
CL2 ASPH SURF 0.38D PG64-22	1 1/2" DEPTH

**LOCAL ACCESS ROAD TRAFFIC LANES**

CRUSHED STONE BASE	8" DEPTH
CL2 ASPH BASE 1,00D PG64-22	3 1/4" DEPTH
CL2 ASPH SURF 0.38D PG64-22	1 1/2" DEPTH

ASPHALT MATERIAL FOR TACK NON-TRACKING @ 0.84 LBS./S.Y. (0.10 GAL./S.Y.) BETWEEN EACH COURSE OF ASPHALT



SCALE: 1"= 5'

TYPICAL SECTIONS  
US 421/KY 80 WIDENING  
RURAL APPROACH/LOCAL ACCESS ROADS