Form C-104
Rev. 02/2009

VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

☐ **Conceptual Proposal** ☒ **Final Proposal** **Date** 11/17/11

Contract ID 100205-601 **Job No.** J6U0807

County St. Louis **Original Bid Cost** $54,889,970.33

Contractor Fred Weber, Inc. **By** Justin Brooks

Designed By Jacobs Engineering Group **Phone** (314) 267-8471

VECP# 11-76 **(to be completed by C.O.)** **VECP** ☒ **or** **PDVECP** ☐

1. **Description of existing requirements and proposed change(s). Advantages/Disadvantages**
   See attachment

2. **Estimate of reduction in construction costs.** $248,023

3. **Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.**
   None

4. **Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.**

   11/17/11
   (date)

5. **Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.**

   12/16/11 (date) Delay Schedule (effect)

6. **Dates of any previous or concurrent submission of the same proposal.**

   N/A
   (date and/or dates)

Additional Comments:

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments:
I recommend approval as does the Core/Area Team. This was approved by the Woodsmill Park Apartment complex located off of Post Road. MoDOT will realize a significant cost savings to the contract as a result of this change.

Digitally signed by John P Donahue
DN: cn=John P Donahue, o=MoDOT, ou=3H35, email=john.donahue@modot.mo.gov, c=US
Date: 2011.12.05 11:03:15 -06'00'

Submitted By Resident Engineer | Date

Comments:

☒ **Approval Recommended**

☐ **Rejection Recommended**

District Engineer | Date

Digitally signed by Ronald Morris
DN: cn=Ronald Morris, o=MoDOT, ou=3H35, email=Ronald.Morris@modot.mo.gov, c=US
Date: 2011.12.15 14:36:10 -06'00'

Comments:
I recommend approval based on the review and approval by MoDOT personnel and provided the Type D Concrete Barrier be built as specified.

☒ **Approval Recommended**

☐ **Rejection Recommended**

Federal Highway Administration | Date
Required for FHWA Full Oversight Projects

Digitally signed by Dawn Perkins
DN: cn=Dawn Perkins, o=FHWA, ou=MO Division, email=dawn.perkins@dot.gov, c=US
Date: 2011.12.19 13:16:37 -06'00'

Comments:

☒ **Approval**

☐ **Rejection**

State Construction and Materials Engineer | Date

Digitally signed by John P Donahue
DN: cn=John P Donahue, o=MoDOT, ou=3H35, email=john.donahue@modot.mo.gov, c=US
Date: 2011.12.19 12:07:41 -06'00'

Distribution: **Resident Engineer, Project Manager, District Construction & Materials Engineer, State Construction & Materials Engineer, FHWA Value Engineering Administrator – MoDOT, P. O. Box 270, Jefferson City, MO 65102**

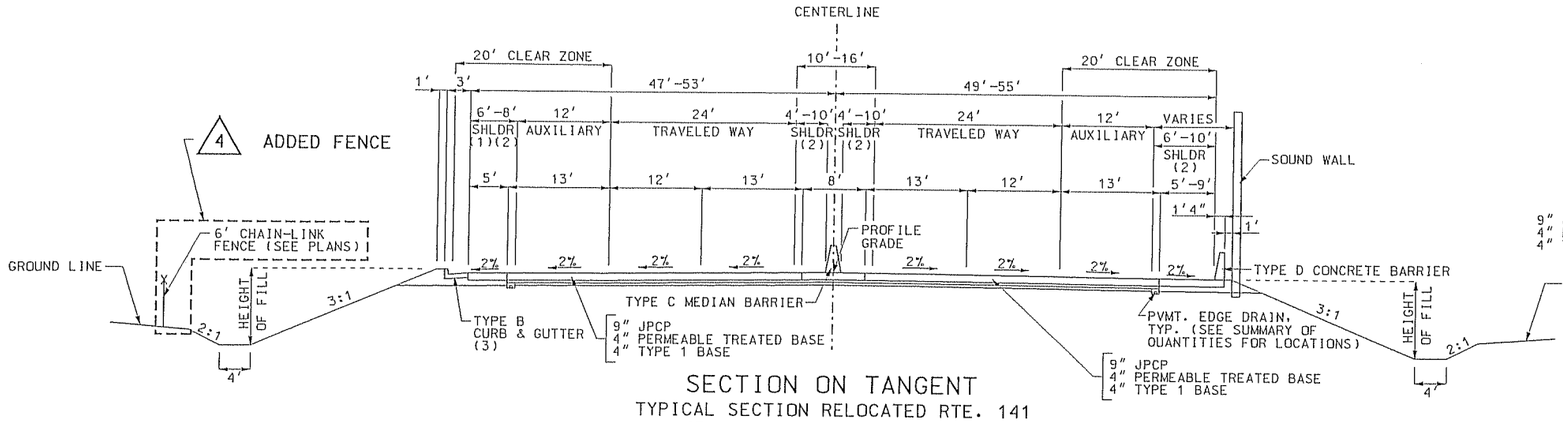
Existing Requirements/Proposed Changes:
Construct Post & Panel Wall A7807 between relocated Post Rd and Proposed Rt. 141 from STA 256+56 to STA 262+00 (see detail on attached Typical Section Sheet 2 of 15).

Proposed Change:
Modify configuration of relocated Post Rd so that edge of Post Rd is outside of permanent wall easement. Slope can then be extended down to limits of permanent easement, eliminating the need for retaining wall A7807. A ground mount soundwall can be constructed between Soundwalls 8 & 9 at the top of the slope adjacent to Proposed Rt. 141 pavement (see details on attached revised Typical Section Sheet 2 of 15).

Advantages:
Eliminating Post & Panel Wall A7807 would reduce the total cost of the project.

Disadvantages:
None

4 REVISED



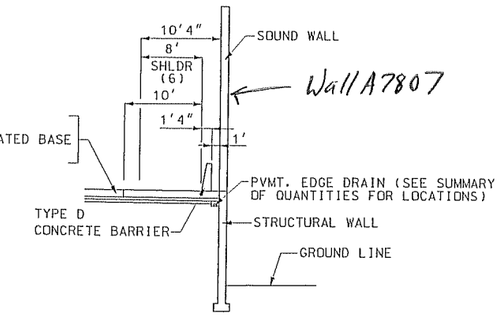
SECTION ON TANGENT

TYPICAL SECTION RELOCATED RTE. 141

STA 221+21.92 TO STA 236+57.06

STA 248+60.26 TO STA 261+36.66

STA 269+47.83 TO STA 281+91.56 (BRIDGE)(NO SOUND WALL)(4)(5)



STA 256+56.00 TO STA 262+00.00 DETAIL

FOR VARIANCE IN WIDTH BETWEEN BARRIER AND WALL SEE CONSTRUCTION PLAN.

NOTES:

(1) ALL SHOULDERS ARE TYPE A2 UNLESS OTHERWISE NOTED.

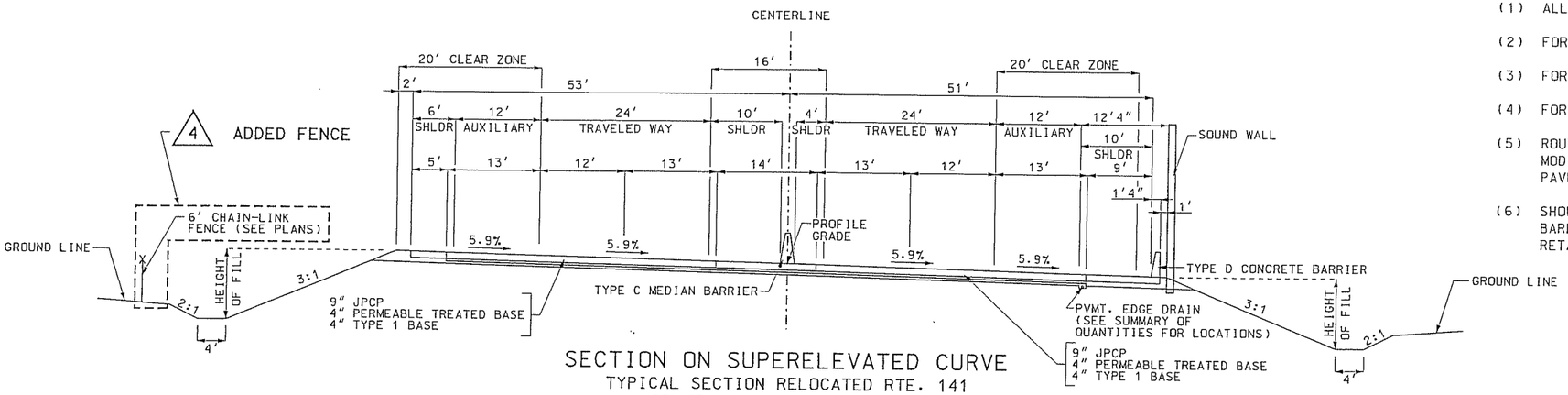
(2) FOR SHOULDER WIDTH VARIANCE SEE CONSTRUCTION PLAN.

(3) FOR CURB & GUTTER VARIANCE SEE CONSTRUCTION PLAN.

(4) FOR AUXILIARY LANE VARIANCE SEE CONSTRUCTION PLAN.

(5) ROUTE PAVEMENT STRUCTURE AS SHOWN ON TYPICAL ENDS AT MODIFIED BRIDGE APPROACH SLAB OR CONCRETE APPROACH PAVEMENT. SEE CONSTRUCTION PLAN FOR DETAILS.

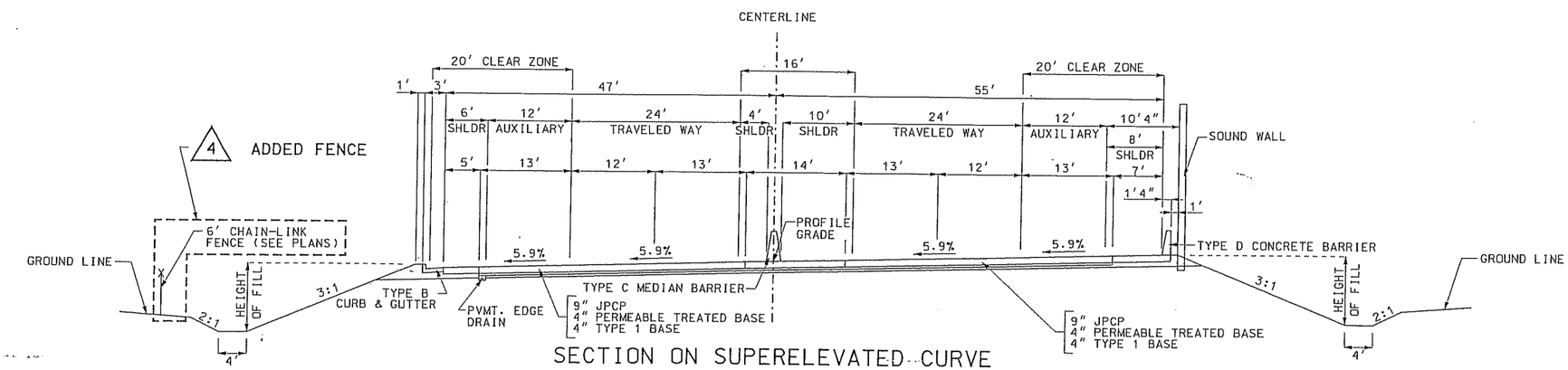
(6) SHOULDER SHALL BE 9" JPCP IN LOCATIONS WHERE CONCRETE BARRIER IS ADJACENT TO STRUCTURAL WALL OR IS RETAINING FILL.



SECTION ON SUPERELEVATED CURVE

TYPICAL SECTION RELOCATED RTE. 141

STA 236+57.06 TO STA 248+60.26



SECTION ON SUPERELEVATED CURVE

TYPICAL SECTION RELOCATED RTE. 141

STA 261+36.66 TO STA 269+47.83

TYPICAL SECTION
ALTERNATE A
(RIGID PAVEMENT)
SHEET 2 OF 15

REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
RANDALL MELVIN PERKINSON
NUMBER E-22770
January 25, 2010

RANDALL MELVIN PERKINSON
ENGINEER
E-22770

DATE PREPARED	
25-JAN-201	
ROUTE	STATE
141	MO
DISTRICT	SHEET N
6	2
COUNTY	
ST. LOUIS	
JOB NO.	
J6U0807	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102

JACOBS

JACOBS ENGINEERING GROUP
100 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
(314) 421-3255 FAX (314) 421-3255
CERTIFICATE OF AUTHORITY #00704

REV.

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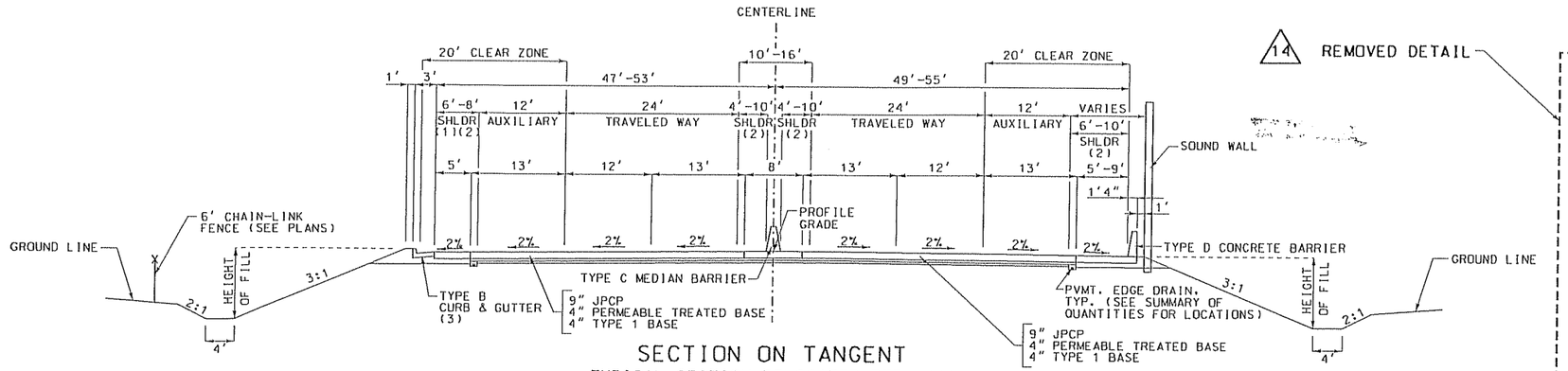


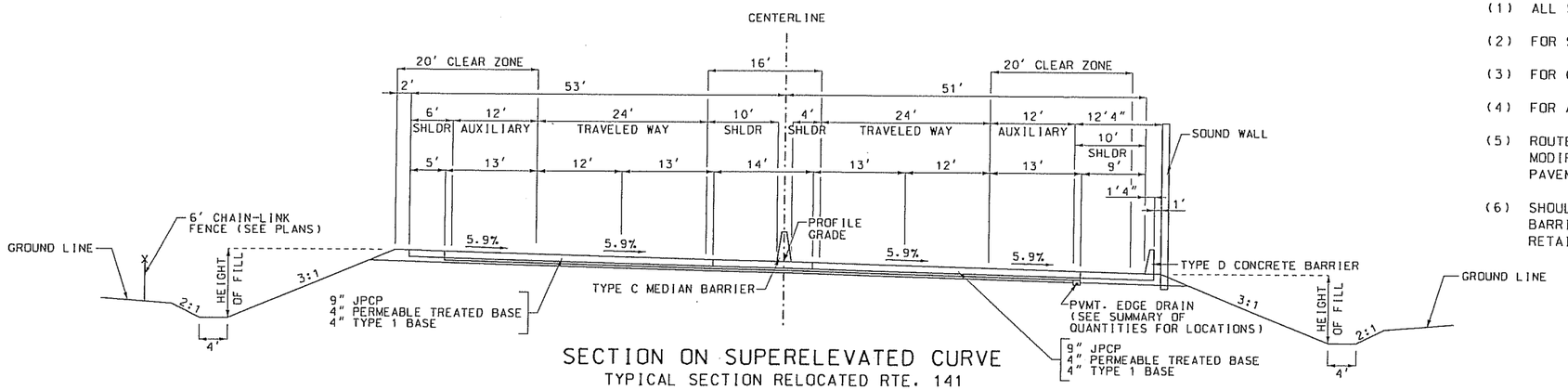
SECTION ON TANGENT

TYPICAL SECTION RELOCATED RTE. 141

STA 221+21.92 TO STA 236+57.06

STA 248+60.26 TO STA 261+36.66

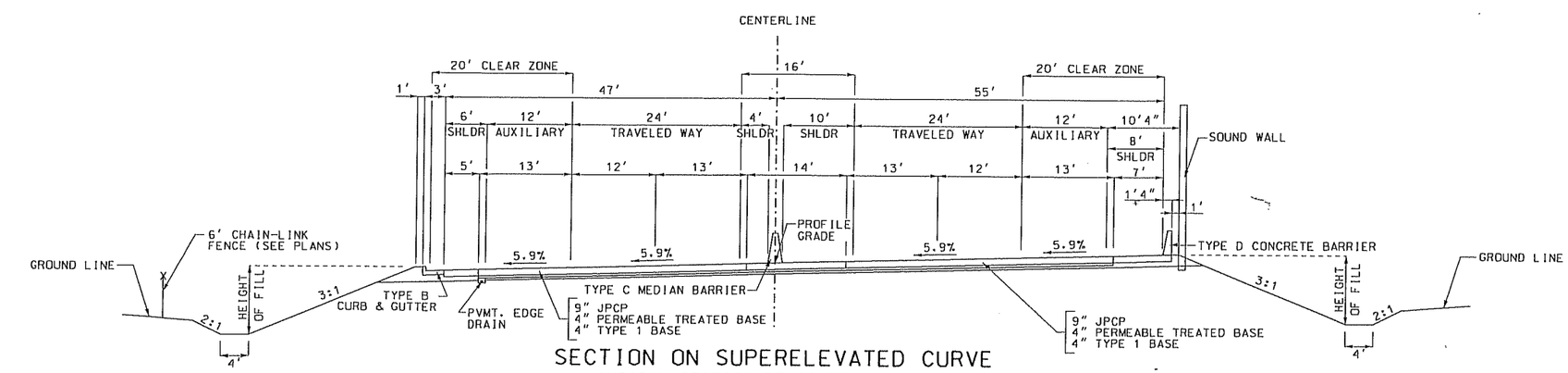
STA 269+47.83 TO STA 281+91.56 (BRIDGE)(NO SOUND WALL)(4)(5)



SECTION ON SUPERELEVATED CURVE

TYPICAL SECTION RELOCATED RTE. 141

STA 236+57.06 TO STA 248+60.26



SECTION ON SUPERELEVATED CURVE

TYPICAL SECTION RELOCATED RTE. 141

STA 261+36.66 TO STA 269+47.83

14 REMOVED DETAIL

14 REVISED

NOTES:

(1) ALL SHOULDERS ARE TYPE A2 UNLESS OTHERWISE NOTED.

(2) FOR SHOULDER WIDTH VARIANCE SEE CONSTRUCTION PLAN.

(3) FOR CURB & GUTTER VARIANCE SEE CONSTRUCTION PLAN.

(4) FOR AUXILIARY LANE VARIANCE SEE CONSTRUCTION PLAN.

(5) ROUTE PAVEMENT STRUCTURE AS SHOWN ON TYPICAL ENDS AT MODIFIED BRIDGE APPROACH SLAB OR CONCRETE APPROACH PAVEMENT. SEE CONSTRUCTION PLAN FOR DETAILS.

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TYPICAL SECTION
ALTERNATE A
(RIGID PAVEMENT)
SHEET 2 OF 15

DATE PREPARED	08-JUL-2011
ROUTE	141
STATE	MO
DISTRICT	6
SHEET NO.	2
COUNTY	ST. LOUIS
JOB NO.	J6U0807
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

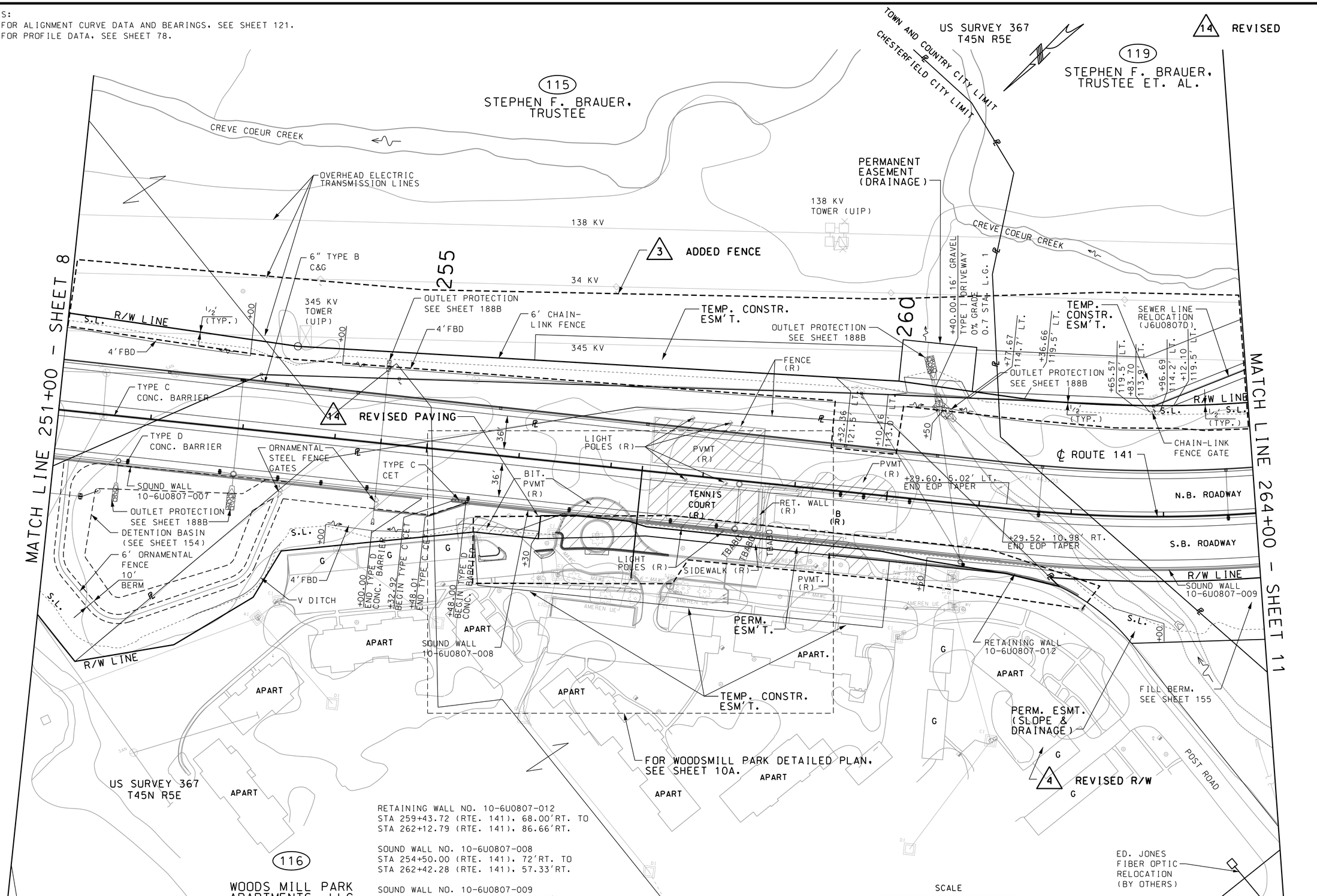
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

JACOBS

JACOBS ENGINEERING GROUP
601 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2191
PHONE: (314) 335-1000
CERTIFICATE OF AUTHORITY #00704

REV.

NOTES:
1. FOR ALIGNMENT CURVE DATA AND BEARINGS, SEE SHEET 121.
2. FOR PROFILE DATA, SEE SHEET 78.



RETAINING WALL NO. 10-6U0807-012
STA 259+43.72 (RTE. 141), 68.00'RT. TO
STA 262+12.79 (RTE. 141), 86.66'RT.

SOUND WALL NO. 10-6U0807-008
STA 254+50.00 (RTE. 141), 72'RT. TO
STA 262+42.28 (RTE. 141), 57.33'RT.

SOUND WALL NO. 10-6U0807-009
STA 262+42.28 (RTE. 141), 57.33'RT. TO
STA 266+00.00 (RTE. 141), 57.33'RT.

ROUTE 141 CONSTRUCTION PLAN
STA 251+00 TO STA 264+00

DATE PREPARED	08-JUL-2011
ROUTE	141
STATE	MO
DISTRICT	6
SHEET NO.	10
COUNTY	ST. LOUIS
JOB NO.	J6U0807
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION
DATE
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

JACOBS
JACOBS ENGINEERING GROUP
8000 MARYLAND AVENUE, SUITE 1000
ST. LOUIS, MISSOURI 63105-2121
PHONE: 314-726-7000 FAX: 314-726-7009
CERTIFICATE OF AUTHORITY #00704

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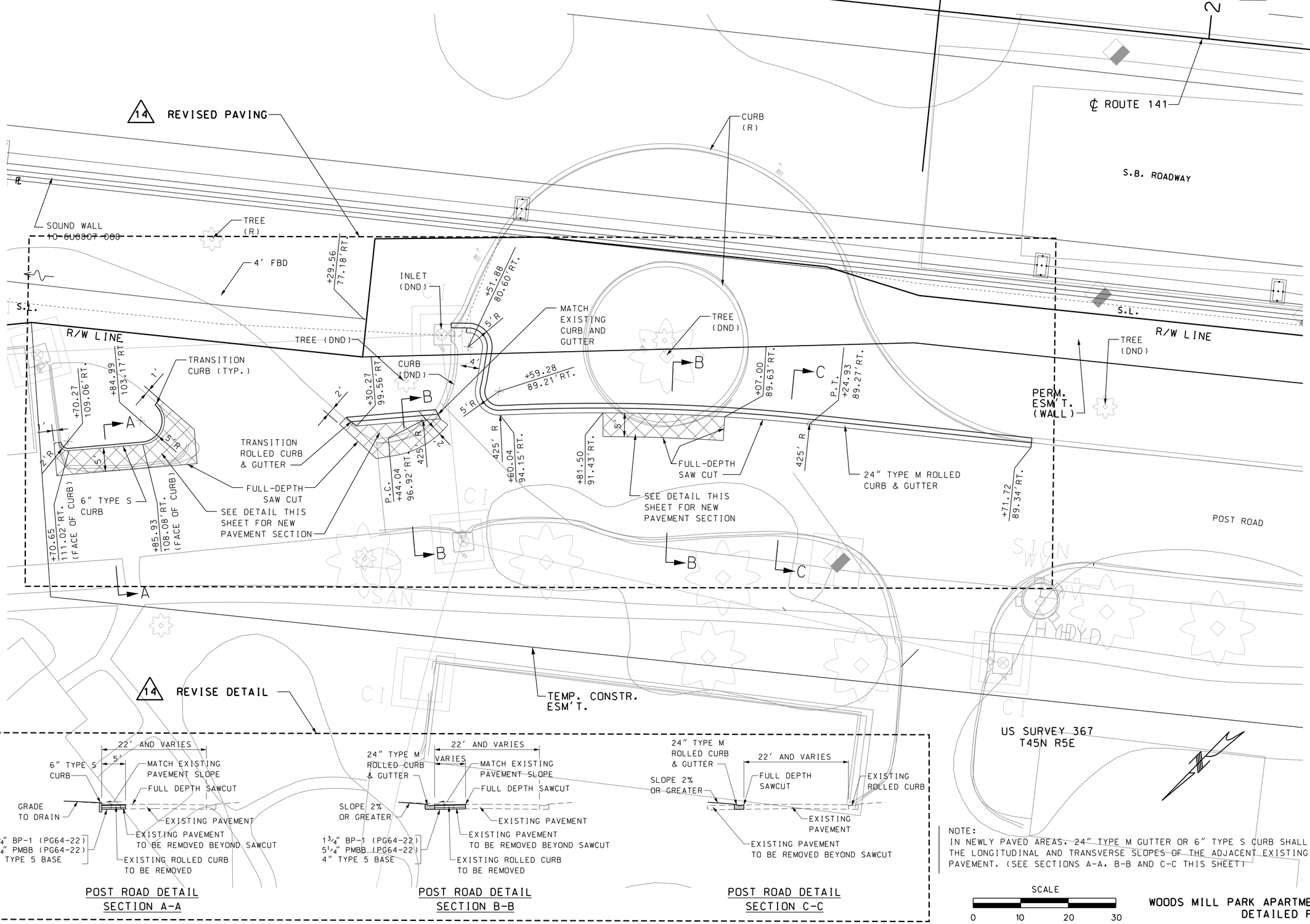

NOTE:
IN NEWLY PAVED AREAS, 24" TYPE M GUTTER OR 6" TYPE S CURB SHALL MATCH THE LONGITUDINAL AND TRANSVERSE SLOPES OF THE ADJACENT EXISTING PAVEMENT. (SEE SECTIONS A-A, B-B AND C-C THIS SHEET)

SCALE
0 10 20 30

WOODS MILL PARK APARTMENTS
DETAILED PLAN

DATE PREPARED	08-JUL-2011
ROUTE	141
STATE	MO
DISTRICT	6
SHEET NO.	10A
COUNTY	ST. LOUIS
JOB NO.	J6U0807
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

JACOBS
JACOBS ENGINEERING GROUP
ONE MERCANTILE CENTER, SUITE 2000
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 231-7000 FAX: (314) 231-7009
CERTIFICATE OF AUTHORITY #00704

REV.

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VALUE ENGINEERING CHECK SHEET

VE 11-76

TYPE OF WORK

(Check one that applies)

- o Bridge/Structure/Footings
- o Drainage Structures (RCP, RCB, CMP's, ect.)
- o TCP/MOT
- o Paving (PCCP, ect.)
- ü Grading/MSE Walls
- o Signal/Lighting/ITS
- o Misc

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

Post Road will be slightly realigned to eliminate need for retaining wall.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

_____

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