

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

I-24

LYON, CALDWELL, AND TRIGG COUNTIES

CONCRETE PAVEMENT AND ROADWAY REHABILITATION

ROADWAY PLANS

INDEX OF SHEETS

R1A --- PROJECT OVERVIEW

R2 - R2G --- TYPICAL SECTIONS AND DETAILS

R3 - R36 --- PLAN AND PROFILE SHEETS

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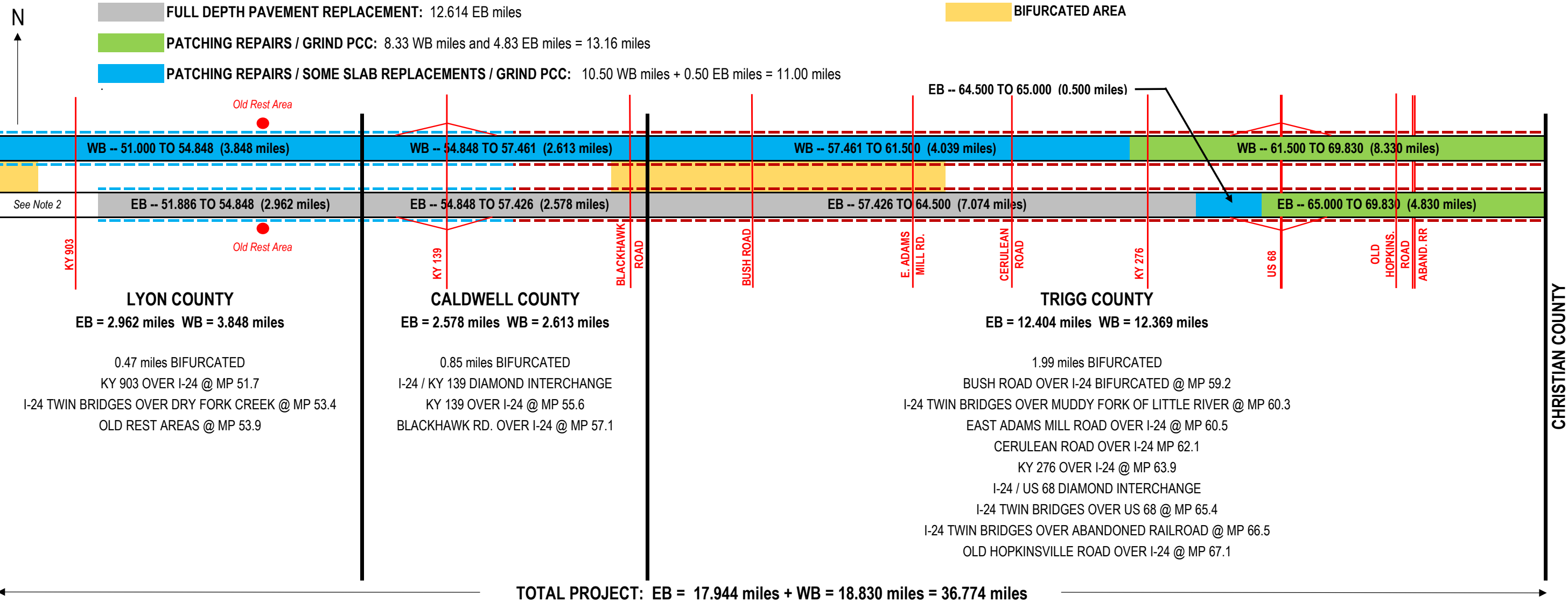
Prepared By:
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1792 ALYSHEBA WAY
LEXINGTON, KY 40509
859-272-5400
September 18, 2019

I-24 CONCRETE PAVEMENT REHABILITATION PROJECT OVERVIEW
LYON, CALDWELL, AND TRIGG COUNTIES

SHEET R1A

NOT TO SCALE

PROPOSED PAVEMENT REHAB. CONSTRUCTION:



NOTES:

1. ALL MILEPOINTS AND DISTANCES SHOWN ARE APPROXIMATE.
2. EB PAVEMENT MP 51.00 TO 51.886 IS ASPHALT AND IS NOT PART OF THIS PROJECT.
3. BARRIER WALL RETROFITS FOR I-24 TWIN BRIDGES OVER US 68 AND ABANDONED RAILROAD.
4. ALL GUARDRAIL AND END TREATMENTS TO BE REMOVED AND REPLACED.
5. PAVED DITCHES IN TRIGG CO. TO BE REMOVED.
6. MISSING GRATES ON DBI'S TO BE REPLACED.
7. INTERCHANGE RAMP SHOULDERS THAT ARE ASPHALT TO BE REHABILITATED.

PROJECT ROADWAYS AND BRIDGES:

3.31 MILES BIFURCATED FREEWAY
15.42 MILES DEPRESSED MEDIAN FREEWAY
OVERPASSES = 8
MAINLINE TWIN BRIDGES = 4
DIAMOND INTERCHANGES = 2

EXISTING INSIDE AND OUTSIDE PAVED SHOULDERS:

CONCRETE - MP 51.000 TO MP 55.668
ASPHALT - MP 55.668 TO MP 69.829

SHOULDERS IN FULL DEPTH REPLACEMENT AREA:
EXISTING CONCRETE OUTSIDE SHOULDER PAVEMENT TO BE REMOVED AND REPLACED WITH ASPHALT.
EXISTING ASPHALT OUTSIDE SHOULDER TO HAVE OVERLAY.
EXISTING INSIDE SHOULDER (ASPHALT AND CONCRETE) TO BE REMOVED AND REPLACED WITH CONCRETE.

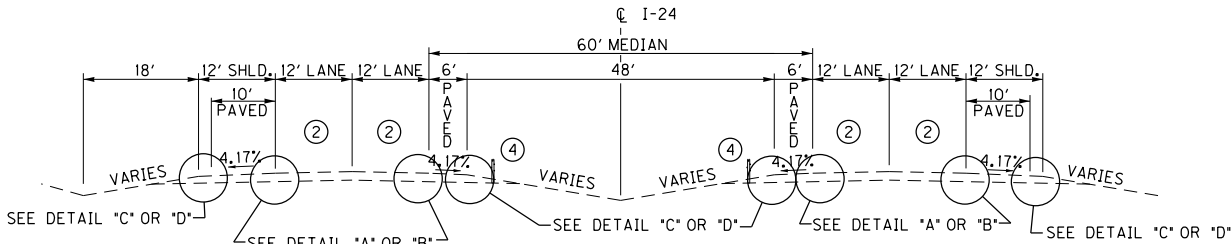
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USER: USJH673619
DATE PLOTTED: September 18, 2019
E-SHEET NAME:
Power InRoads v8.11.9.397

EXISTING TYPICAL SECTIONS

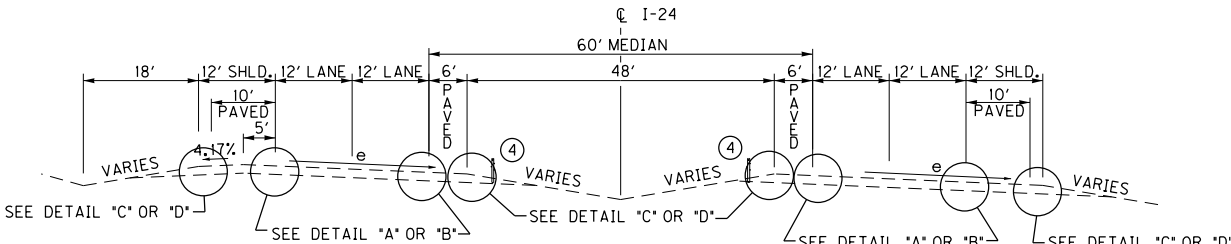
COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL, LYON, TRIGG	01-20011.00	R2

NOTE:

- FROM MP 51.000 TO MP 55.668 THE EXISTING SHOULDERS ARE PCCP. FROM MP 55.668 TO MP 69.830 THE EXISTING SHOULDERS ARE ASPHALT.
- RECORD PLANS INDICATE NORMAL CROSS SLOPES VARY FROM 1.56% TO 2.08%.
- SHOULDER CROSS SLOPES SHOWN BASED ON RECORD PLANS.
- LOCATION OF EXISTING CABLE BARRIER VARIES ON EASTBOUND OR WESTBOUND SIDE OF MEDIAN. SEE PLAN SHEETS FOR LOCATIONS.
- EASTBOUND PAVEMENT WEST OF MP 51.886 IS ASPHALT AND IS NOT PART OF THIS PROJECT.



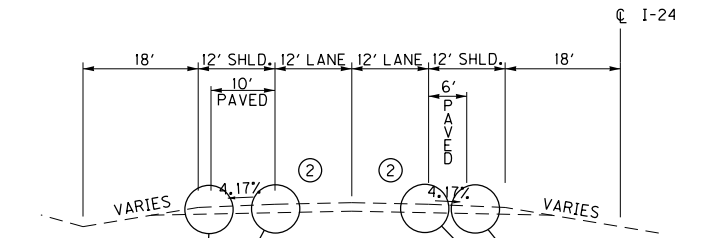
NORMAL CUT/FILL SECTION



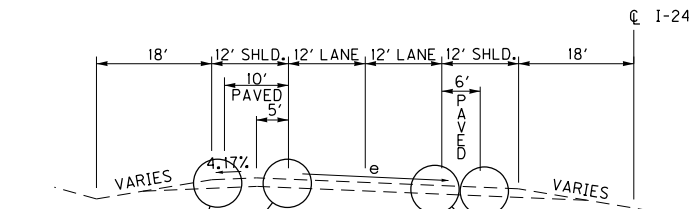
**SUPERELEVATED
CUT/FILL SECTION**

MP 51.461 TO MP 56.419, MP 59.442 TO MP 69.830

⑤



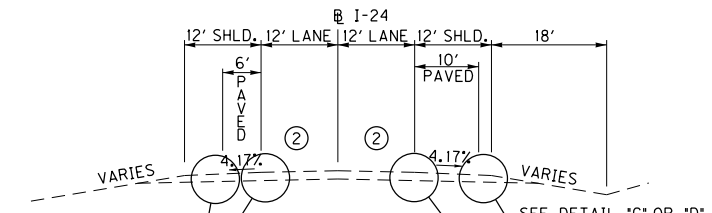
WESTBOUND NORMAL CUT/FILL SECTION



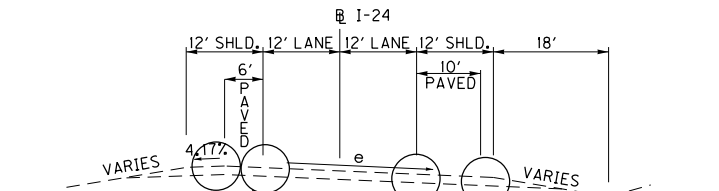
**WESTBOUND SUPERELEVATED
CUT/FILL SECTION**

MP 51.000 TO MP 51.461, MP 56.419 TO MP 59.442

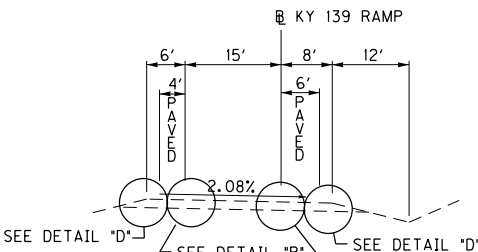
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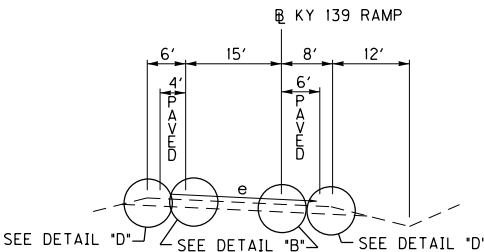
EASTBOUND NORMAL FILL/CUT SECTION



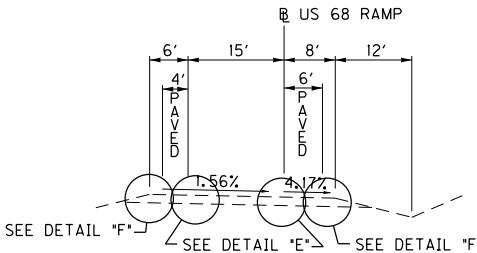
**EASTBOUND SUPERELEVATED
FILL/CUT SECTION**



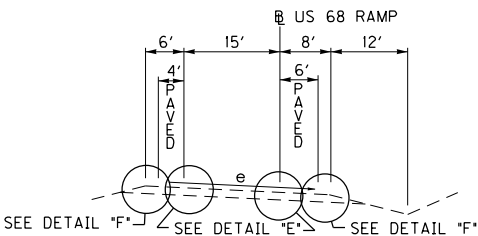
**KY 139 RAMP
NORMAL CUT/FILL SECTION**



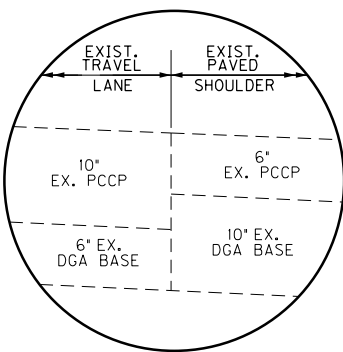
**KY 139 RAMP
SUPERELEVATED CUT/FILL SECTION**



**US 68 RAMP
NORMAL CUT/FILL SECTION**

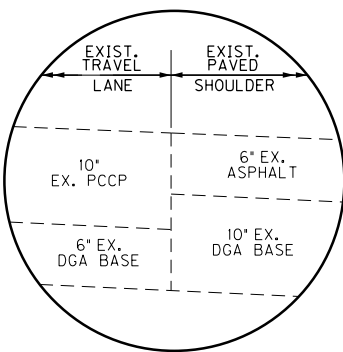


**US 68 RAMP
SUPERELEVATED CUT/FILL SECTION**



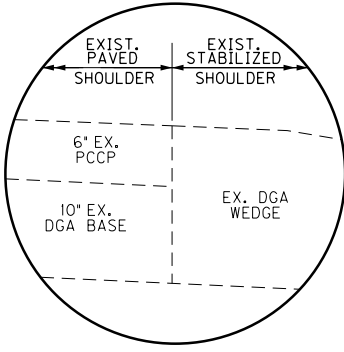
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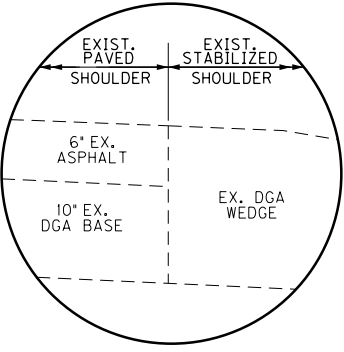
DETAIL "B"
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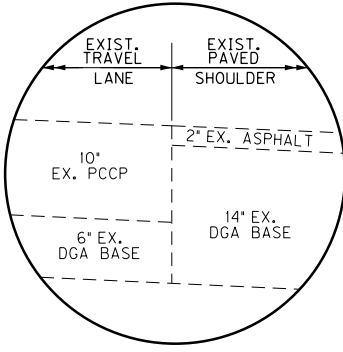
DETAIL "C"
NOT TO SCALE

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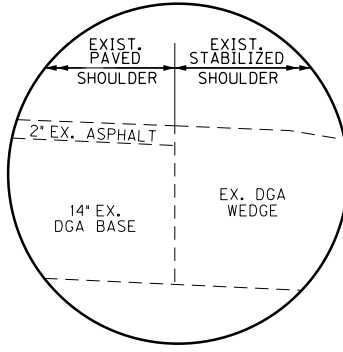
DETAIL "D"
NOT TO SCALE

①



DETAIL "E"
NOT TO SCALE

①



DETAIL "F"
NOT TO SCALE

①

NOT TO SCALE

EXISTING TYPICAL SECTIONS

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USER: USJH673619
DATE PLOTTED: September 18, 2019

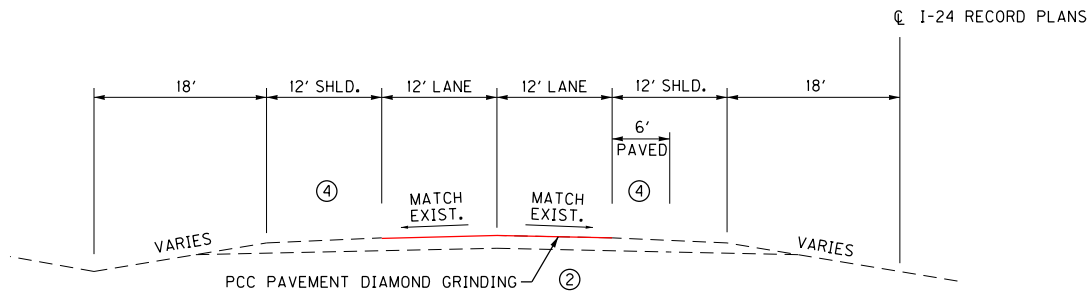
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Power InRoads v8.11.9.397

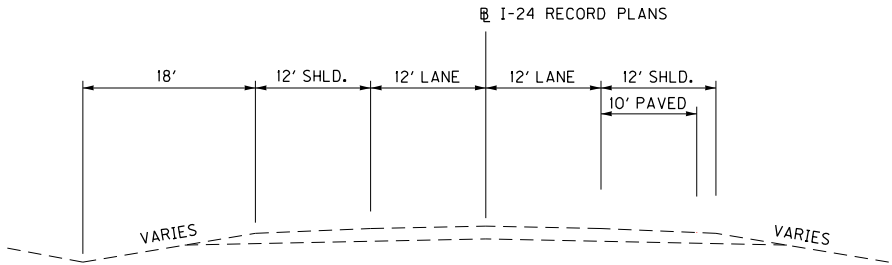
COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL, LYON, TRIGG	01-20011.00	R2A

**PROPOSED
TYPICAL SECTIONS**

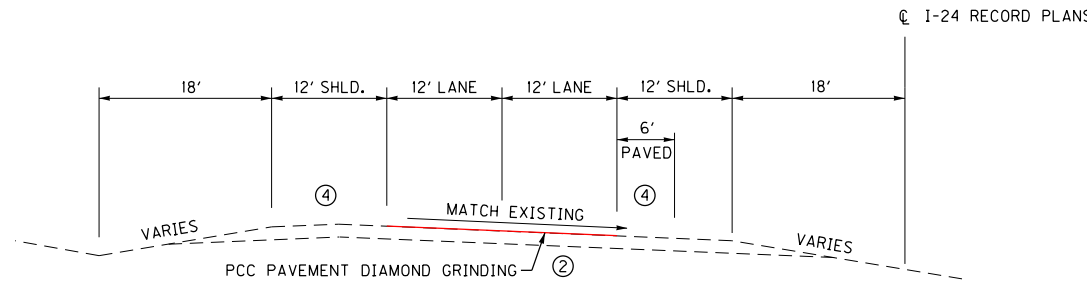
MP 51.000 TO MP 51.886



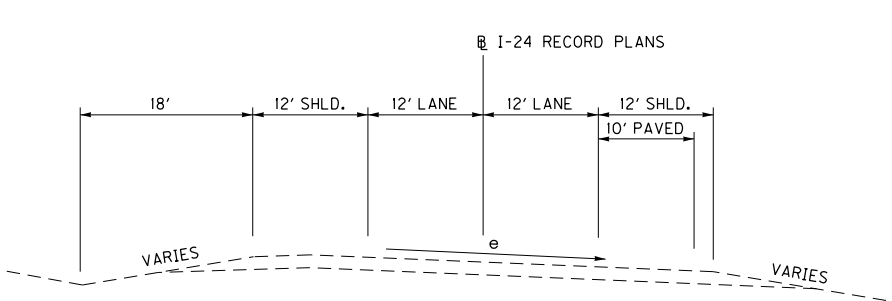
WESTBOUND NORMAL CUT/FILL SECTION



EASTBOUND NORMAL CUT/FILL SECTION ③

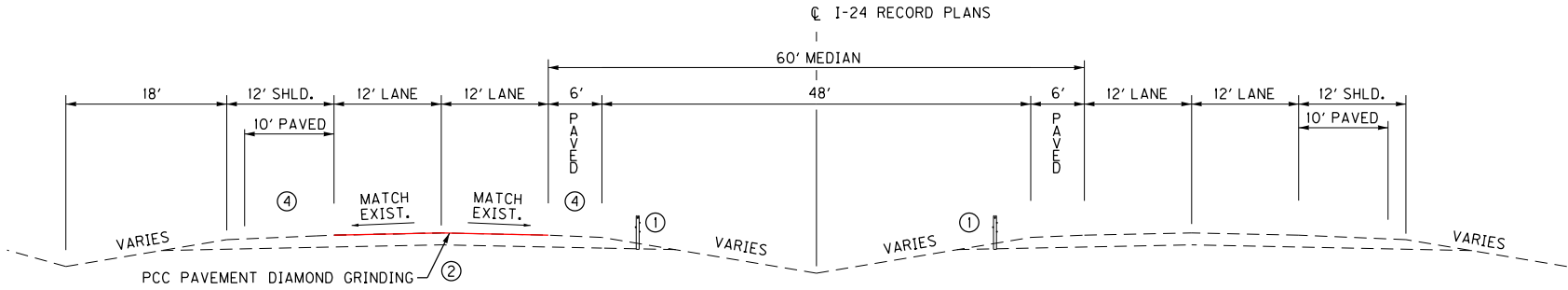


WESTBOUND SUPERELEVATED
CUT/FILL SECTION



EASTBOUND SUPERELEVATED
CUT/FILL SECTION ③

MP 51.000 TO MP 51.461



NORMAL CUT/FILL SECTION ③

MP 51.461 TO MP 51.886

NOTES:

- ① LOCATION OF EXISTING CABLE BARRIER VARIES ON EASTBOUND OR WESTBOUND SIDE OF MEDIAN. SEE PLAN SHEETS FOR LOCATIONS.
- ② SEE SUMMARY SHEETS FOR ESTIMATE OF SLAB REPLACEMENTS AND PATCHING.
- ③ EASTBOUND PAVEMENT WEST OF MP 51.886 IS ASPHALT AND IS NOT PART OF THIS PROJECT.
- ④ GRIND SHOULDERS AS DIRECTED BY ENGINEER WHEN NECESSARY FOR PROPER PAVEMENT DRAINAGE.

NOT TO SCALE

TYPICAL SECTIONS
BIFURCATED & DEPRESSED MEDIAN
MP 51.000 TO MP 51.886

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USER: USJH673619
DATE PLOTTED: September 18, 2019

E-SHEET NAME:

Power InRoads v8.11.9.337

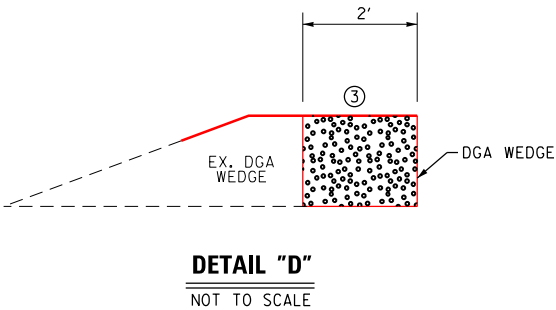
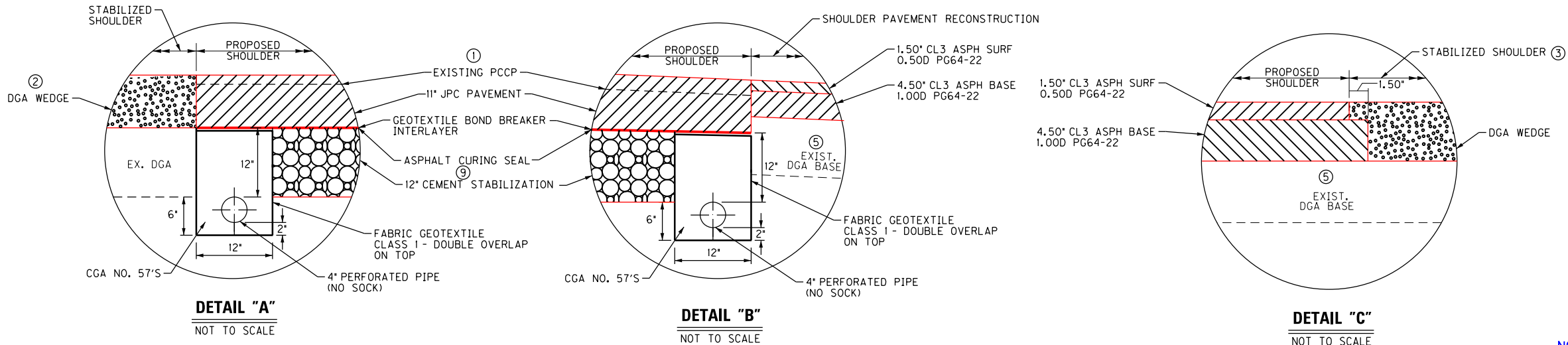
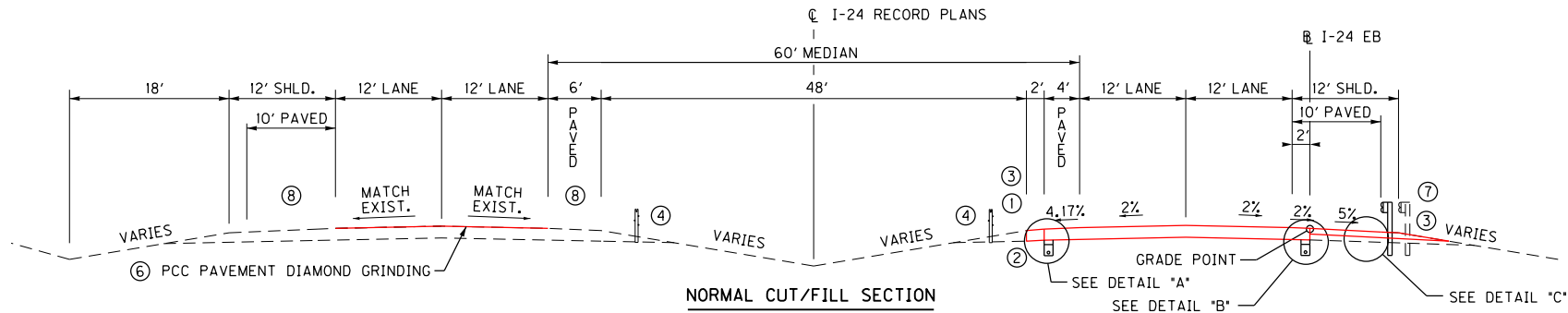
COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL, LYON, TRIGG	01-20011.00	R2B

PROPOSED
TYPICAL SECTIONS

MP 51.886 TO MP 55.668

NOTES:

- ① ALL CONCRETE PAVEMENT OF EASTBOUND TRAVEL LANES AND SHOULDERS TO BE REMOVED. INCLUDES ANY REMOVAL OF UNDERLYING BASE MATERIAL NEEDED FOR PROPOSED PAVEMENT. REMOVAL OF UNDERLYING BASE MATERIAL SHALL BE INCIDENTAL TO REMOVE PCC PAVEMENT.
- ② SEE DETAIL "D" FOR INSIDE SHOULDER DETAIL.
- ③ ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2 FEET DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:
ASPHALT SEAL COAT @ 2.40 LBS./SQ. YD.
ASPHALT SEAL AGGREGATE @ 20 LBS./SQ. YD.
- ④ LOCATION OF EXISTING CABLE BARRIER VARIES ON EASTBOUND OR WESTBOUND SIDE OF MEDIAN. SEE PLAN SHEETS FOR LOCATIONS.
- ⑤ MORE DGA WILL NEED TO BE ADDED TO SOME AREAS BEFORE PLACING ASPHALT SHOULDERS.
- ⑥ SEE SUMMARY SHEETS FOR ESTIMATE OF SLAB REPLACEMENTS AND PATCHING.
- ⑦ EXISTING GUARDRAIL IS TO BE REMOVED. FACE OF NEW GUARDRAIL TO BE AT EDGE OF PAVED SHOULDER.
- ⑧ GRIND SHOULDERS AS DIRECTED BY ENGINEER WHEN NECESSARY FOR PROPER PAVEMENT DRAINAGE.
- ⑨ ASPHALT CURING SEAL REQUIRED OVER CEMENT STABILIZATION. TWO APPLICATIONS OF ASPHALT CURING SEAL @ 2 LBS./SQ. YD.



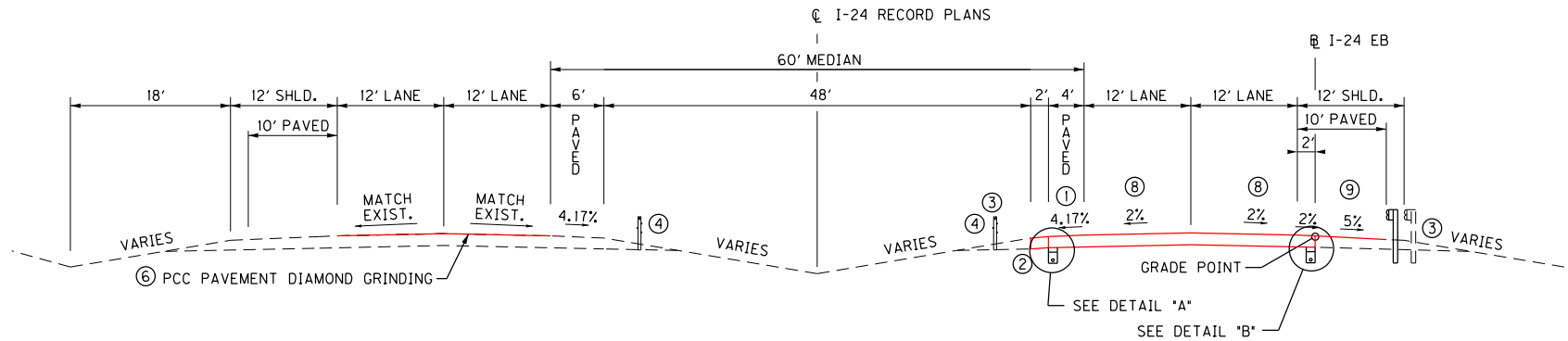
TYPICAL SECTIONS
DEPRESSED MEDIAN
MP 51.886 TO MP 55.668

NOT TO SCALE

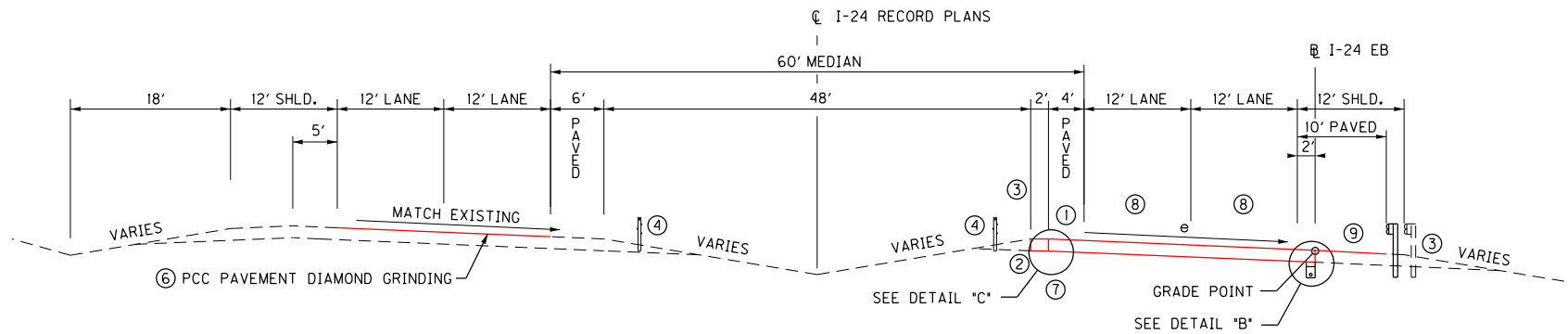
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DATE PLOTTED: September 18, 2019
E-SHEET NAME:
Power InRoads v8.11.9.337

COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL, LYON, TRIGG	01-20011.00	R2C

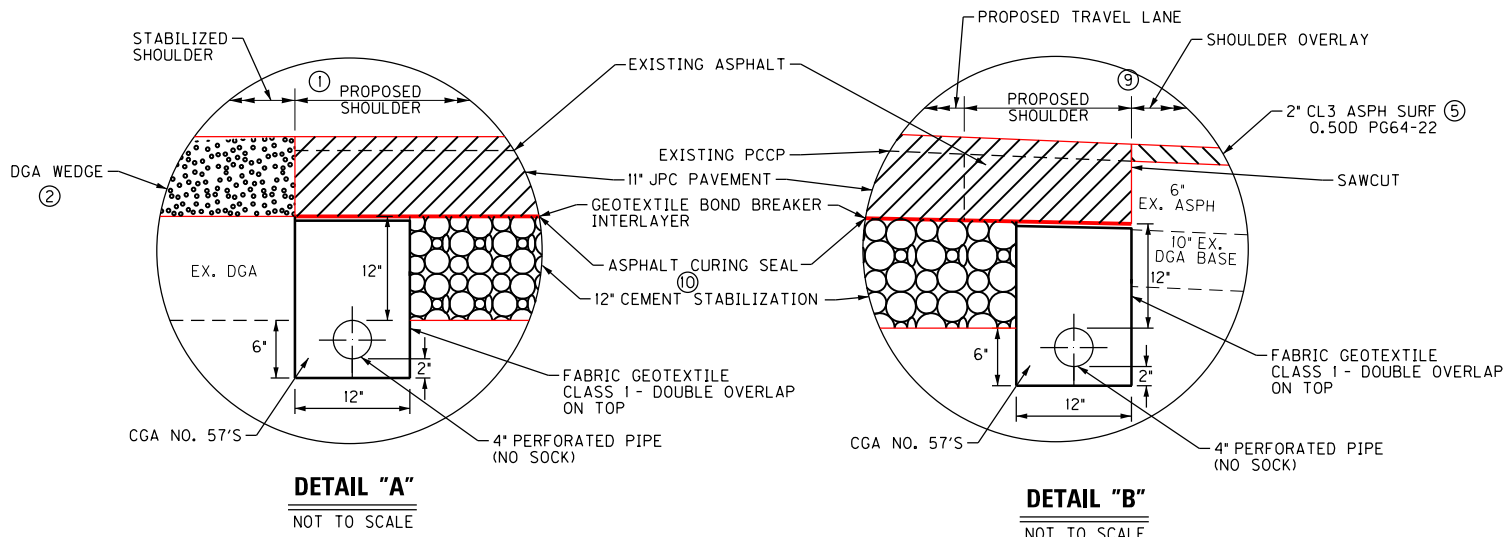
**PROPOSED
TYPICAL SECTIONS**
MP 55.668 TO MP 56.419, MP 59.442 TO MP 64.500



NORMAL CUT/FILL SECTION

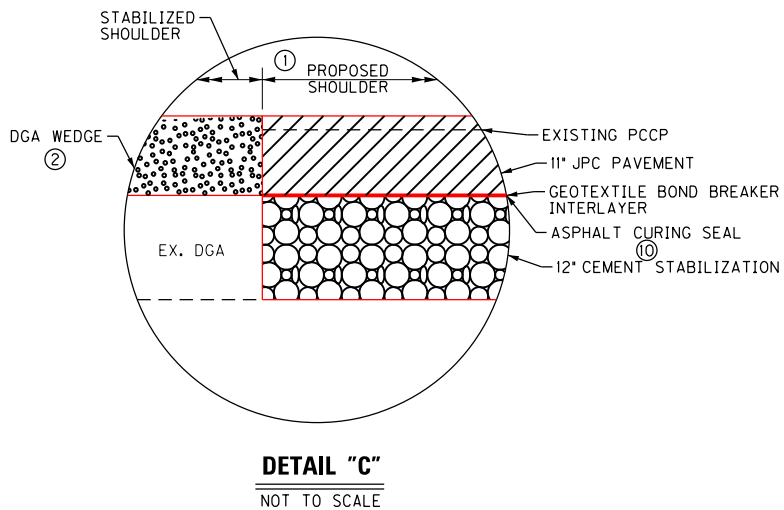


**SUPERELEVATED
CUT/FILL SECTION**

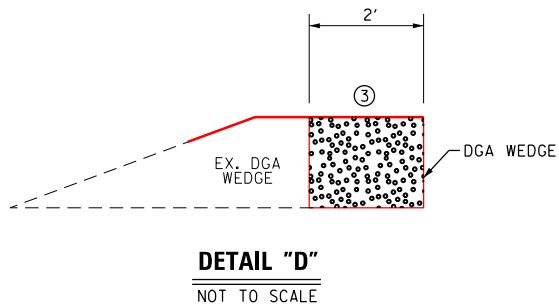


DETAIL "A"
NOT TO SCALE

DETAIL "B"
NOT TO SCALE



DETAIL "C"
NOT TO SCALE



DETAIL "D"
NOT TO SCALE

- NOTES:
- THE ENTIRE EASTBOUND 6' ASPHALT INSIDE SHOULDER IS TO BE REMOVED AND REPLACED WITH 4' OF CONCRETE PAVEMENT. INCLUDES ANY REMOVAL OF UNDERLYING BASE MATERIAL NEEDED FOR PROPOSED PAVEMENT. REMOVAL OF UNDERLYING BASE MATERIAL SHALL BE INCIDENTAL TO REMOVE PCC PAVEMENT AND REMOVE ASPHALT SHOULDER.
 - SEE DETAIL "D" FOR INSIDE SHOULDER DETAIL.
 - ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2 FEET DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:
ASPHALT SEAL COAT @ 2.40 LBS./SQ. YD.
ASPHALT SEAL AGGREGATE @ 20 LBS./SQ. YD.
 - LOCATION OF EXISTING CABLE BARRIER VARIES ON EASTBOUND OR WESTBOUND SIDE OF MEDIAN. SEE PLAN SHEETS FOR LOCATIONS.
 - MILLING WILL BE REQUIRED IN SOME AREAS TO PROVIDE MINIMUM OF 2" ASPHALT OVERLAY. LEVELING AND WEDGING TO BE PROVIDED IN AREAS WHERE ASPHALT OVERLAY IS GREATER THAN 2.5".
 - SEE SUMMARY SHEETS FOR ESTIMATE OF SLAB REPLACEMENTS AND/OR PATCHING.
 - UNDERDRAIN WILL NOT BE REQUIRED ON HIGH SIDE OF SUPERELEVATION.
 - EXISTING CONCRETE PAVEMENT OF EASTBOUND TRAVEL LANES IS TO BE REMOVED AND REPLACED WITH NEW CONCRETE PAVEMENT.
 - 2' OF EXISTING OUTSIDE ASPHALT SHOULDER SHALL BE REMOVED AND REPLACED WITH NEW CONCRETE PAVEMENT. INCLUDES ANY REMOVAL OF UNDERLYING BASE MATERIAL NEEDED FOR PROPOSED PAVEMENT. REMOVAL OF UNDERLYING BASE MATERIAL SHALL BE INCIDENTAL TO REMOVE ASPHALT SHOULDER. THE REMAINING 8' OF PAVED ASPHALT SHOULDER SHALL BE OVERLAYED WITH A MINIMUM OF 2" OF ASPHALT.
 - ASPHALT CURING SEAL REQUIRED OVER CEMENT STABILIZATION. TWO APPLICATIONS OF ASPHALT CURING SEAL @ 2 LBS./SQ. YD.

NOT TO SCALE

TYPICAL SECTIONS DEPRESSED MEDIAN
MP 55.668 TO MP 56.419 &
MP 59.442 TO MP 64.500

FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420G - 1-24\CADD\TYPICALS\TYPICALS.DGN

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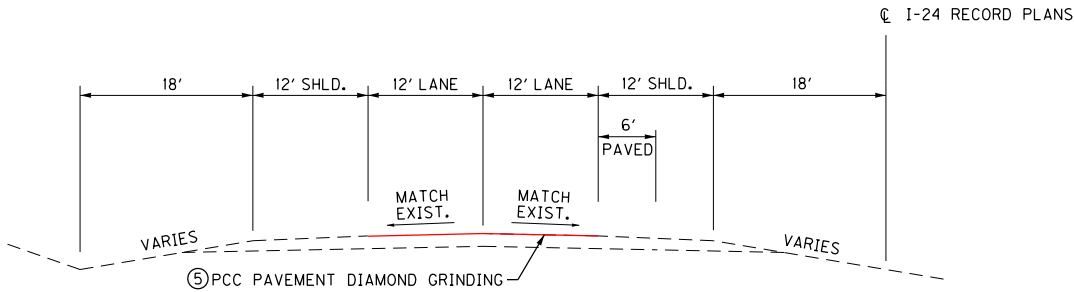
COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL, LYON, TRIGG	01-20011.00	R2D

PROPOSED
TYPICAL SECTIONS

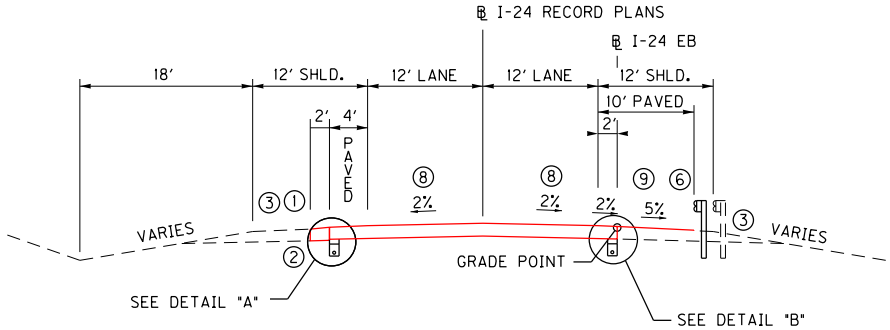
MP 56.419 TO MP 59.442

NOTES:

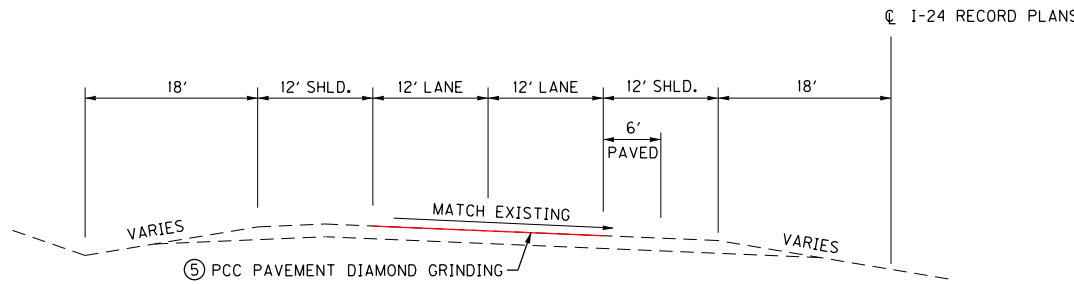
- THE ENTIRE EASTBOUND 6' ASPHALT INSIDE SHOULDER IS TO BE REMOVED AND REPLACED WITH 4' OF CONCRETE PAVEMENT. INCLUDES ANY REMOVAL OF UNDERLYING BASE MATERIAL NEEDED FOR PROPOSED PAVEMENT. REMOVAL OF UNDERLYING BASE MATERIAL SHALL BE INCIDENTAL TO REMOVE PCC PAVEMENT AND REMOVE ASPHALT SHOULDER.
- SEE DETAIL "D" FOR INSIDE SHOULDER DETAIL.
- ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 4 FEET OUTSIDE OF PAVEMENT. TWO APPLICATIONS OF THE FOLLOWING:
ASPHALT SEAL COAT @ 2.40 LBS./SQ. YD.
ASPHALT SEAL AGGREGATE @ 20 LBS./SQ. YD.
- MILLING WILL BE REQUIRED IN SOME AREAS TO PROVIDE MINIMUM OF 2" ASPHALT OVERLAY. LEVELING AND WEDGING TO BE PROVIDED IN AREAS WHERE ASPHALT OVERLAY IS GREATER THAN 2.5".
- SEE SUMMARY SHEETS FOR ESTIMATE OF SLAB REPLACEMENTS AND/OR PATCHING.
- EXISTING GUARDRAIL IS TO BE REMOVED. FACE OF NEW GUARDRAIL TO BE AT EDGE OF PAVED SHOULDER.
- UNDERDRAIN WILL NOT BE REQUIRED ON HIGH SIDE OF SUPERELEVATION.
- EXISTING CONCRETE PAVEMENT OF EASTBOUND TRAVEL LANES IS TO BE REMOVED AND REPLACED WITH NEW CONCRETE PAVEMENT.
- 2' OF EXISTING OUTSIDE ASPHALT SHOULDER SHALL BE REMOVED AND REPLACED WITH NEW CONCRETE PAVEMENT. INCLUDES ANY REMOVAL OF UNDERLYING BASE MATERIAL NEEDED FOR PROPOSED PAVEMENT. REMOVAL OF UNDERLYING BASE MATERIAL SHALL BE INCIDENTAL TO REMOVE ASPHALT SHOULDER. THE REMAINING 8' OF PAVED ASPHALT SHOULDER SHALL BE OVERLAYED WITH A MINIMUM OF 2" OF ASPHALT.
- SUPERELEVATED SHOULDERS, CONSTRUCT TO STANDARD SUPERELEVATION, EXCEPT NOT FLATTER THAN SLOPES INDICATED FOR NORMAL SLOPES.
- WHEN THE SHOULDER IS ON THE HIGH SIDE OF SUPERELEVATION THE SHOULDER BREAK SHALL BE 5' FROM THE EDGE OF TRAVEL LANE.
- ASPHALT CURING SEAL REQUIRED OVER CEMENT STABILIZATION. TWO APPLICATIONS OF ASPHALT CURING SEAL @ 2 LBS./SQ. YD.



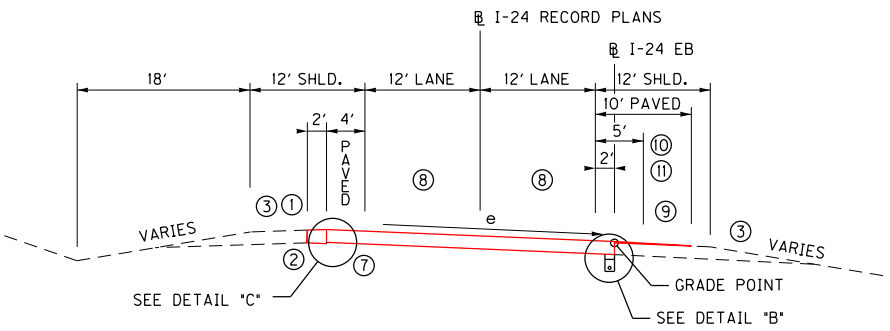
WESTBOUND NORMAL CUT/FILL SECTION



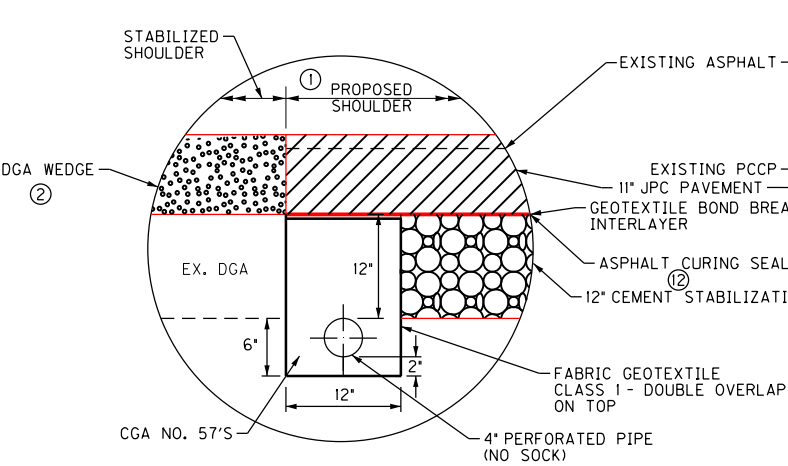
EASTBOUND NORMAL CUT/FILL SECTION



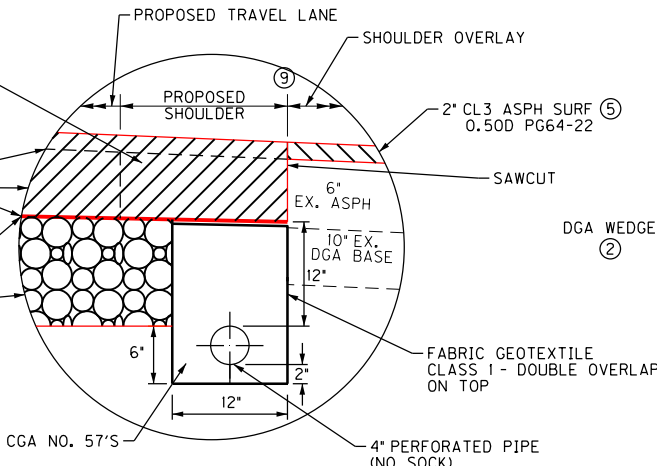
WESTBOUND SUPERELEVATED CUT/FILL SECTION



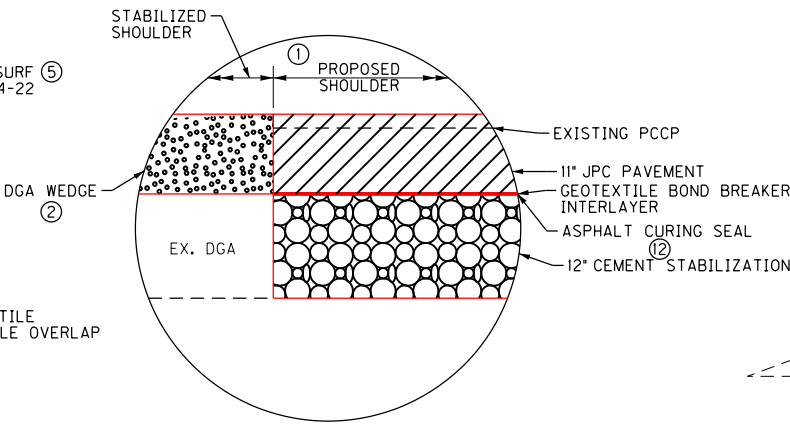
EASTBOUND SUPERELEVATED CUT/FILL SECTION



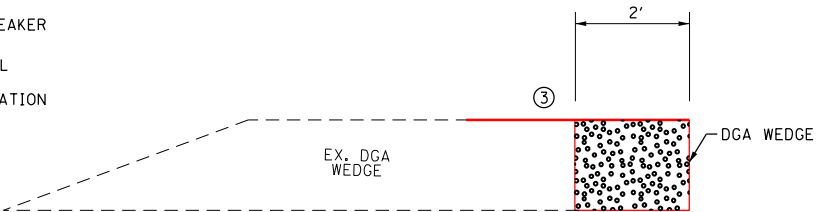
DETAIL "A"
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DETAIL "B"
NOT TO SCALE



DETAIL "C"
NOT TO SCALE



DETAIL "D"
NOT TO SCALE

NOT TO SCALE

TYPICAL SECTIONS
BIFURCATED MEDIAN
MP 56.419 TO MP 59.442

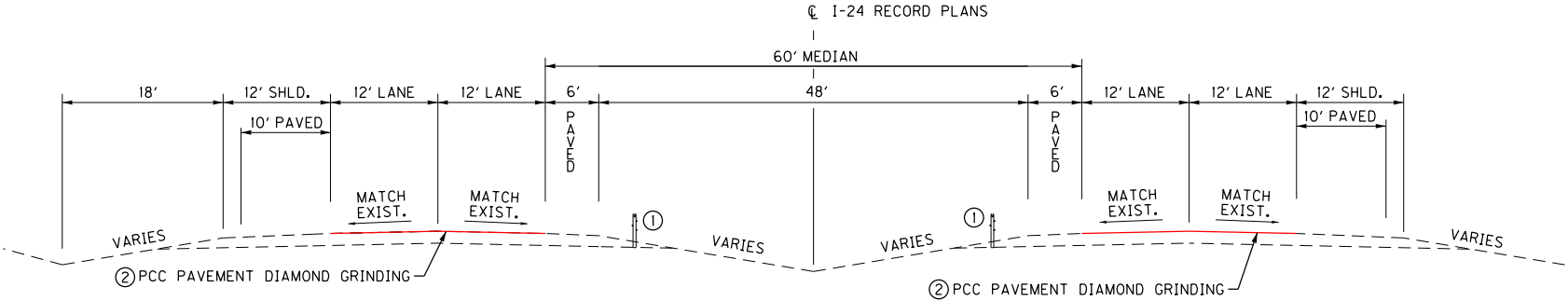
COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL, LYON, TRIGG	01-20011.00	R2E

PROPOSED
TYPICAL SECTIONS

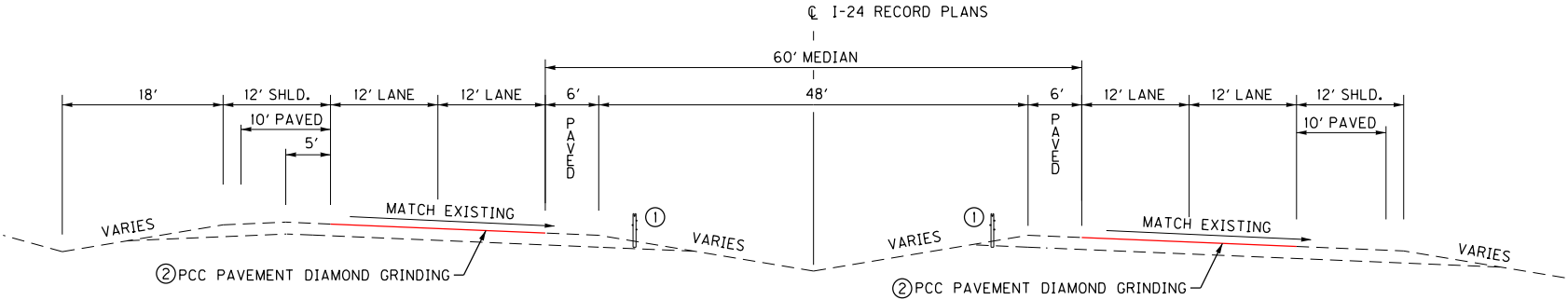
MP 64.500 TO MP 69.830

NOTES:

- ① LOCATION OF EXISTING CABLE BARRIER VARIES ON EASTBOUND OR WESTBOUND SIDE OF MEDIAN. SEE PLAN SHEETS FOR LOCATIONS.
- ② SEE SUMMARY SHEETS FOR ESTIMATE OF SLAB REPLACEMENTS AND/OR PATCHING.



NORMAL CUT/FILL SECTION



SUPERELEVATED
CUT/FILL SECTION

NOT TO SCALE

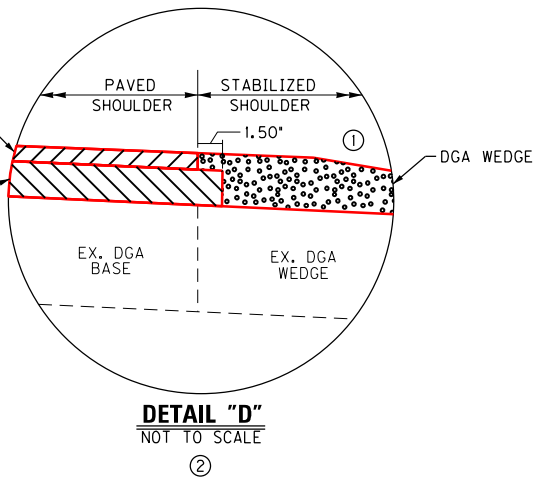
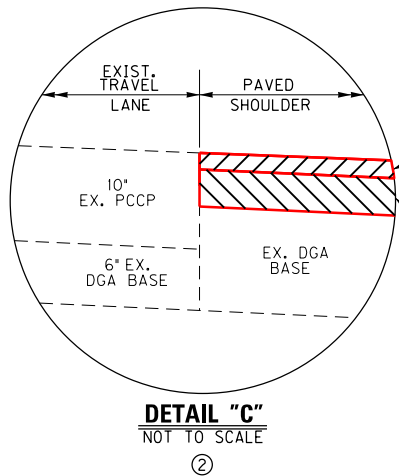
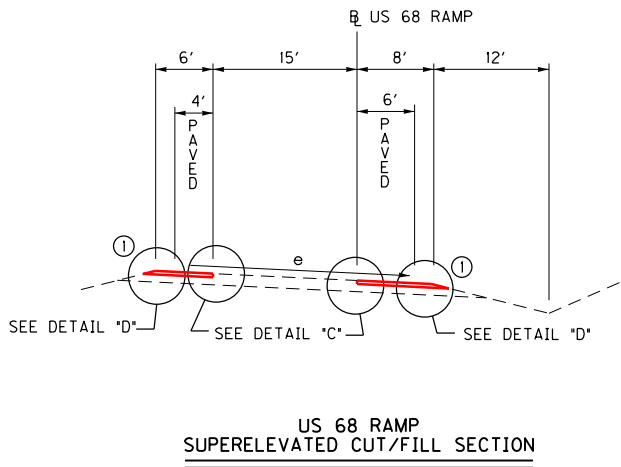
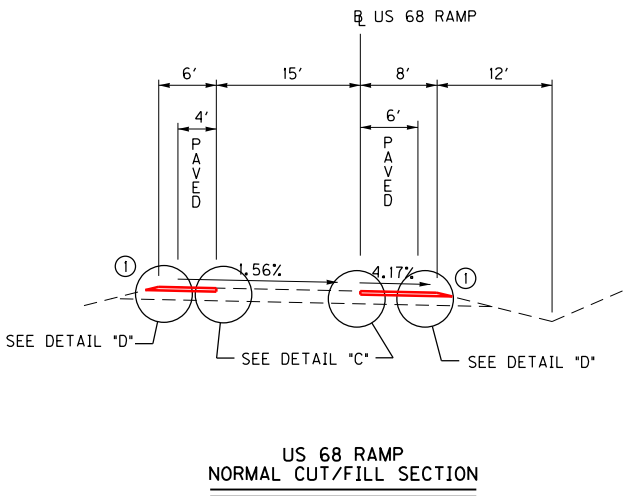
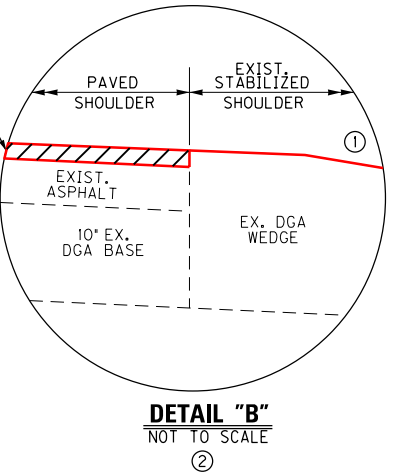
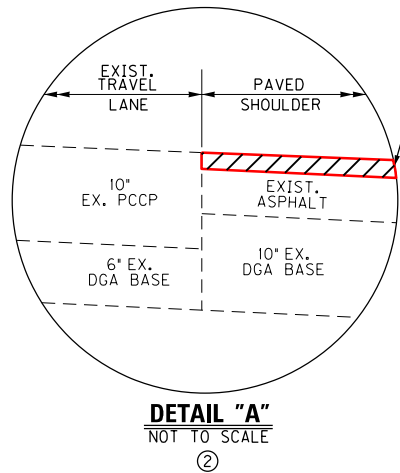
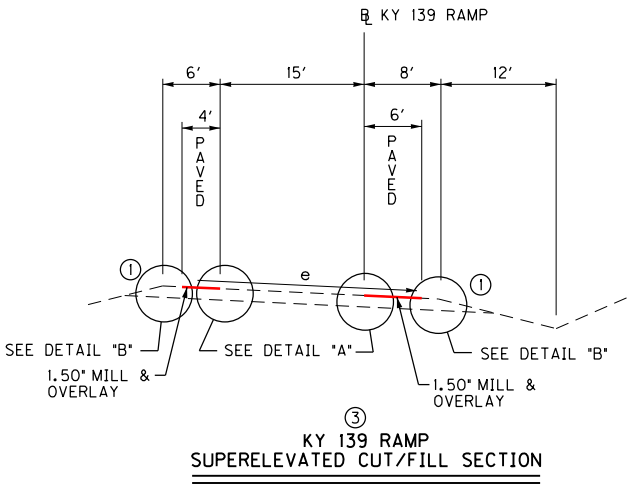
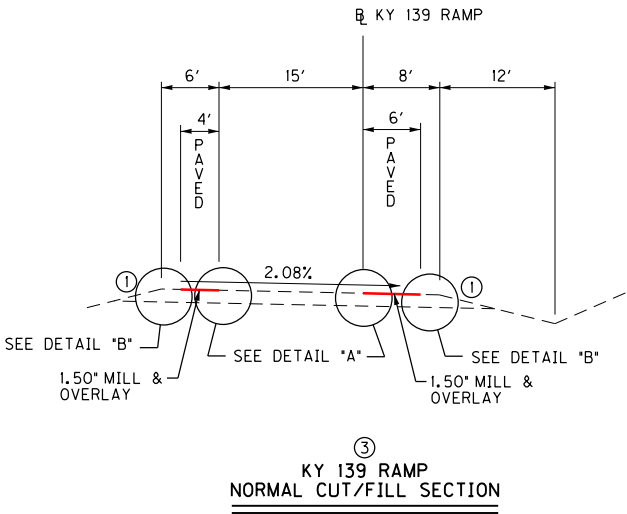
TYPICAL SECTIONS
DEPRESSED MEDIAN
MP 64.500 TO MP 69.830

COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL, LYON, TRIGG	01-20011.00	R2F

PROPOSED TYPICAL SECTIONS

NOTES:

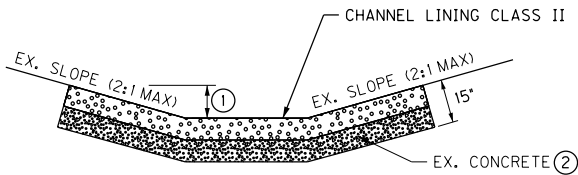
- ASPHALT SEAL REQUIRED FROM OUTSIDE EDGE OF PAVED SHOULDER TO A POINT 2 FEET DOWN THE DITCH OR FILL SLOPE. TWO APPLICATIONS OF THE FOLLOWING:
ASPHALT SEAL COAT @ 2.40 LBS./SQ. YD.
ASPHALT SEAL AGGREGATE @ 20 LBS./SQ. YD.
- ASPHALT SHOULDERS AT US 68 INTERCHANGE RAMP SHALL BE COMPLETELY REMOVED AND REPLACED WITH NEW ASPHALT. INCLUDES ANY REMOVAL OF UNDERLYING BASE MATERIAL NEEDED FOR PROPOSED PAVEMENT. REMOVAL OF UNDERLYING BASE MATERIAL SHALL BE INCIDENTAL TO REMOVE ASPHALT SHOULDER.
- AT THE KY 139 INTERCHANGE, SHOULDER MILL AND OVERLAY WILL ONLY OCCUR ON RAMP'S B AND C. THE SHOULDERS ON RAMP'S A AND D SHALL REMAIN UNDISTURBED.



NOT TO SCALE

TYPICAL SECTIONS
INTERCHANGE RAMP'S

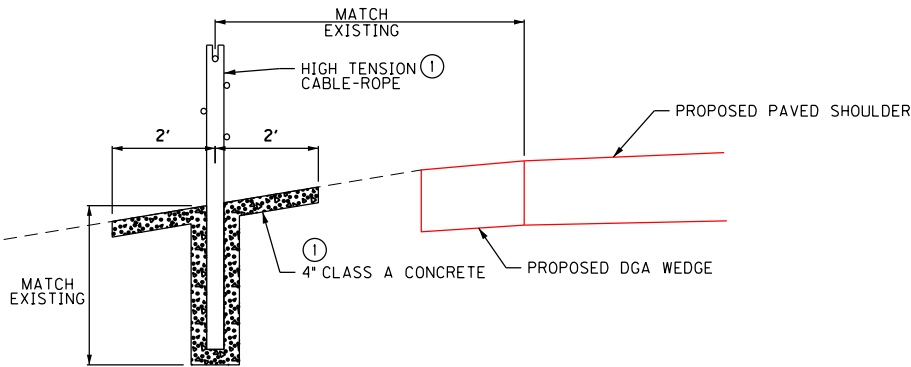
COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL, LYON, TRIGG	01-20011.00	R2G



PAVED DITCH REMOVAL
NOT TO SCALE

PAVED DITCH REMOVAL NOTES

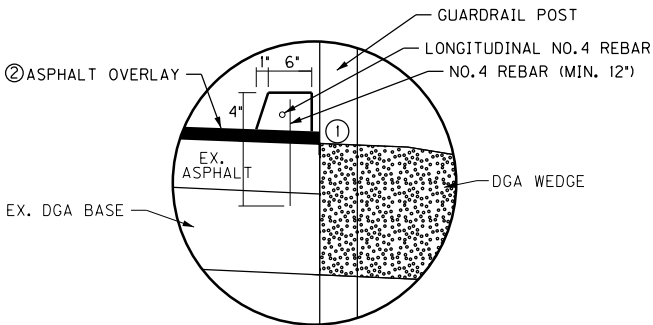
- ① MATCH EXISTING DEPTH OR 1.0' MIN. WHICHEVER IS GREATER.
- ② EXISTING CONCRETE TO BE BROKEN INTO PIECES THE SIZE OF THE SPECIFIED CHANNEL LINING AND RESHAPED TO THAT OF THE NEW DITCH. SHALL BE PAID FOR BY 'REMOVE PAVED DITCH' BID ITEM.



HIGH TENSION CABLE ROPE INSTALLATION
NOT TO SCALE

HIGH TENSION CABLE ROPE INSTALLATION NOTES

- ① EXISTING CONCRETE PAD, CONCRETE TRENCH, CABLE ROPE, AND POSTS SHALL BE REUSED AS APPROVED BY THE ENGINEER.



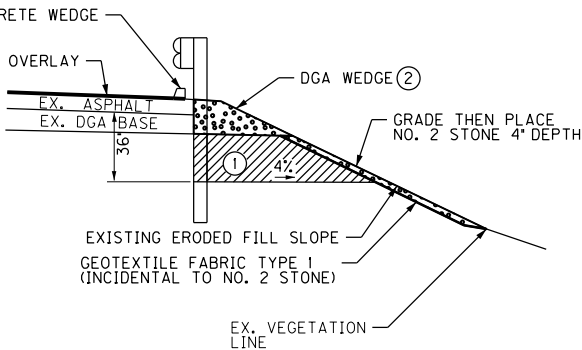
CONCRETE WEDGE CURB DETAIL
NOT TO SCALE

CONCRETE WEDGE CURB NOTES

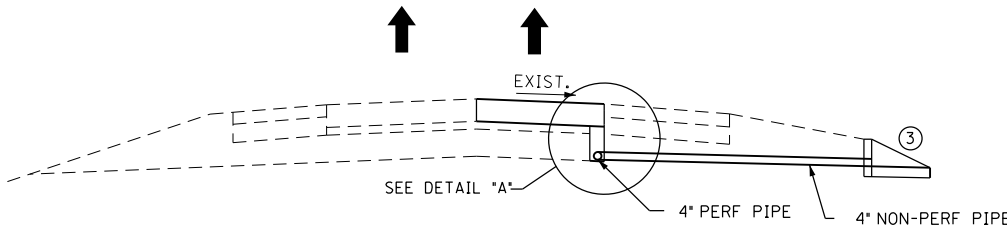
- ① OVERLAY SHALL BE EXTENDED TO GUARDRAIL POST.
- ② CONCRETE WEDGE CURB INSTALLED ON EASTBOUND SHOULDERS WILL BE PLACED ON THE PROPOSED ASPHALT OVERLAY AS SHOWN. CONCRETE WEDGE CURB INSTALLED ON THE WESTBOUND SHOULDERS WILL BE PLACED ON THE EXISTING ASPHALT SHOULDERS.

SHOULDER AND FILL SLOPE REPAIR NOTES

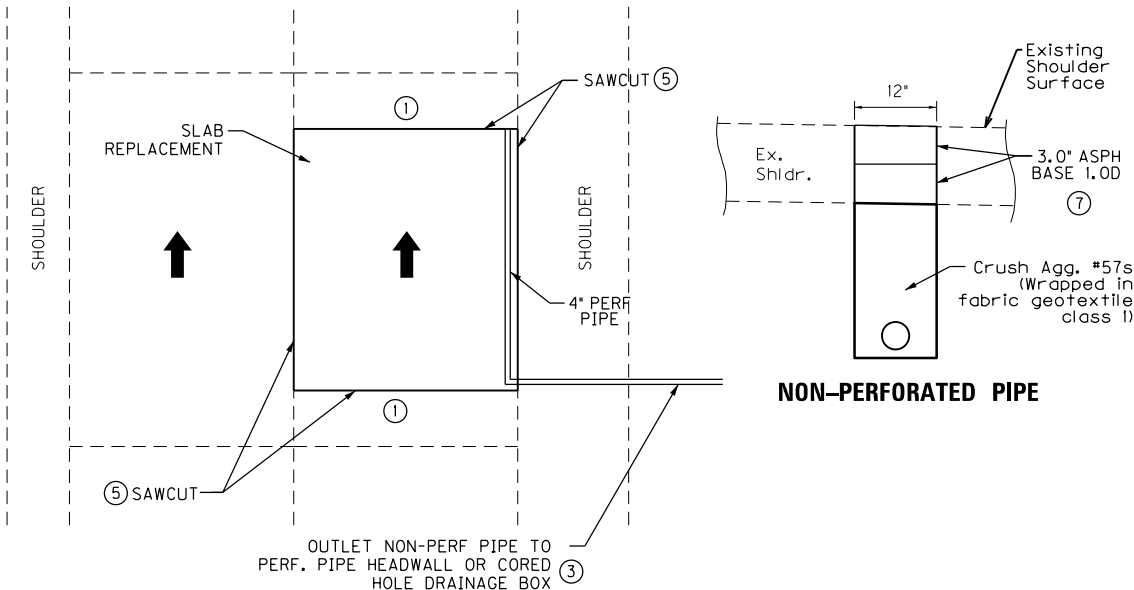
- ① REMOVE EXISTING SHOULDER MATERIAL AND REPLACE WITH INORGANIC CLAY SOIL UNIFIED CLASSIFICATION CH OR CL. THIS IS PAID BY THE BID ITEM "DITCHING AND SHOULDER (SPECIAL)".
- ② REMOVE AND REPLACE EXISTING DGA WEDGE AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE PER UNIT BID PRICE FOR DGA.
- 3 SLOPE REPAIR INCLUDES REMOVING THE EXISTING SLOPE TO THE DEPTH SPECIFIED OR AS DIRECTED BY THE ENGINEER AND BACKFILLING WITH COMPACTED SOIL. COMPACT SOIL IN 6" LIFTS. EXCAVATED MATERIAL MAY BE WASTED WITHIN THE RIGHT OF WAY IN AREAS DESIGNATED BY THE ENGINEER.
- 4 GRADING THE SLOPE PRIOR TO PLACEMENT OF NO. 2 STONE WILL BE INCIDENTAL TO THE STONE BID ITEM.
- 5 A QUANTITY OF CHANNEL LINING CLASS II HAS BEEN INCLUDED ON THE GENERAL SUMMARY FOR FILLING IN DEEPLY ERODED AREAS PRIOR TO GRADING AND PLACING THE NO. 2 STONE.
- ⑥ SEE SCHEDULE FOR LOCATION OF CONCRETE WEDGE CURB. CONCRETE CURB SHALL NOT BE PLACED ON HIGH SIDE OF SUPERELEVATION.
- ⑦ CONCRETE WEDGE CURB INSTALLED ON EASTBOUND SHOULDERS WILL BE PLACED ON THE PROPOSED ASPHALT OVERLAY AS SHOWN. CONCRETE WEDGE CURB INSTALLED ON THE WESTBOUND SHOULDERS WILL BE PLACED ON THE EXISTING ASPHALT SHOULDERS.



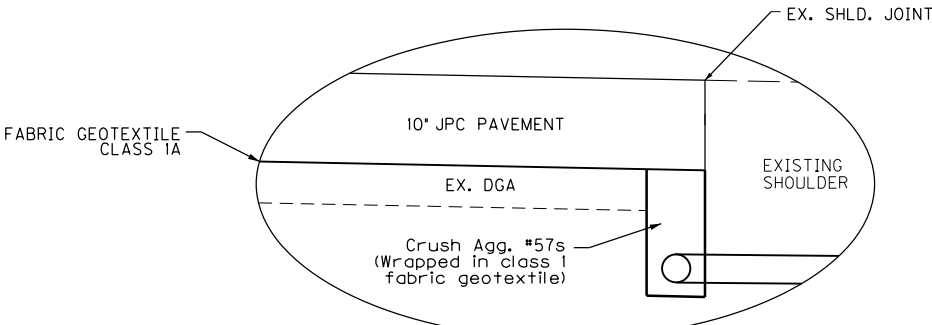
SHOULDER AND FILL SLOPE REPAIR
NOT TO SCALE



CROSS SECTION



PLAN VIEW



DETAIL A

SLAB REPLACEMENT NOTES:

- ① SEE MOD. SPECIAL NOTE FOR FULL DEPTH CONCRETE PAVEMENT REPAIR FOR LIMITS OF SLAB REMOVAL.
- ② FULL DEPTH CONCRETE REPAIRS SHALL BE PERFORMED AT LOCATIONS SELECTED BY AND AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL ASSESS, SELECT, AND MARK AREAS FOR TREATMENT.
- ③ SELECT AN APPROPRIATE OUTLET SOURCE WHICH MAY INCLUDE A PERF PIPE HEADWALL OR CORED HOLE IN AN EXISTING DROP BOX INLET. NON-PERF OUTLET PIPE MAY REQUIRE INSTALLATION AT AN ADJUSTED ALIGNMENT TO PROVIDE POSITIVE DRAINAGE. INSTALL A LONGITUDINAL PERFORATED PIPE ON THE LOW SIDE OF SUBGRADE CONNECTING TO THE DOWN GRADE OUTLET.
- ④ COMPLETE SLAB REPLACEMENT OPERATIONS IN ONE CONTINUOUS OPERATION OR PROTECT WITH BARRIER WALL. DO NOT LEAVE AN UNPROTECTED HOLE WITH NO WORKERS PRESENT. IF BARRIER WALL MUST BE USED FOR SLAB REPLACEMENTS, IT WILL BE CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK AND NOT BE CONSIDERED FOR PAYMENT.
- ⑤ SAWCUT OF PAVEMENT IS INCIDENTAL TO REMOVE PAVEMENT.
- ⑥ AS DIRECTED BY THE ENGINEER ANY SUBGRADE FAILURES SHALL BE REPAIRED USING CRUSHED AGGREGATE NO. 23 AND GEOTEXTILE FABRIC TYPE 1A.
- ⑦ INCIDENTAL TO PVC PIPE-4IN.

NOT TO SCALE

MISCELLANEOUS DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
LYON	01-20011.00	R3

- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE

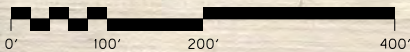
BEGIN CONSTRUCTION
WB REPAIR & GRIND
PCC WITH SOME SLAB
REPLACEMENTS
MP 51.00
STA. 3913 + 23.99

I-24 RECORD PLANS

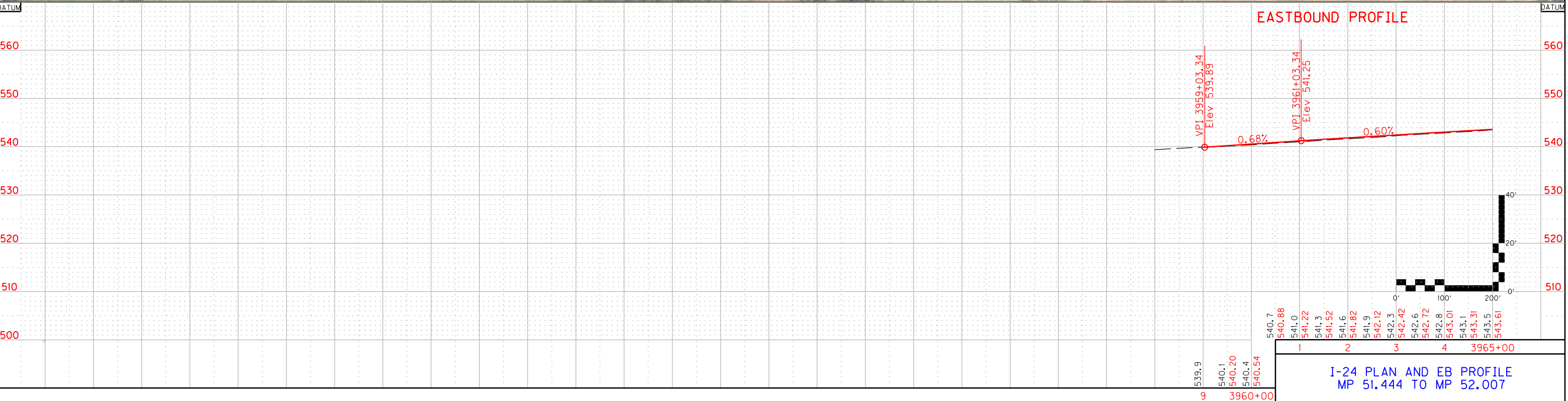
I-24 RECORD PLANS

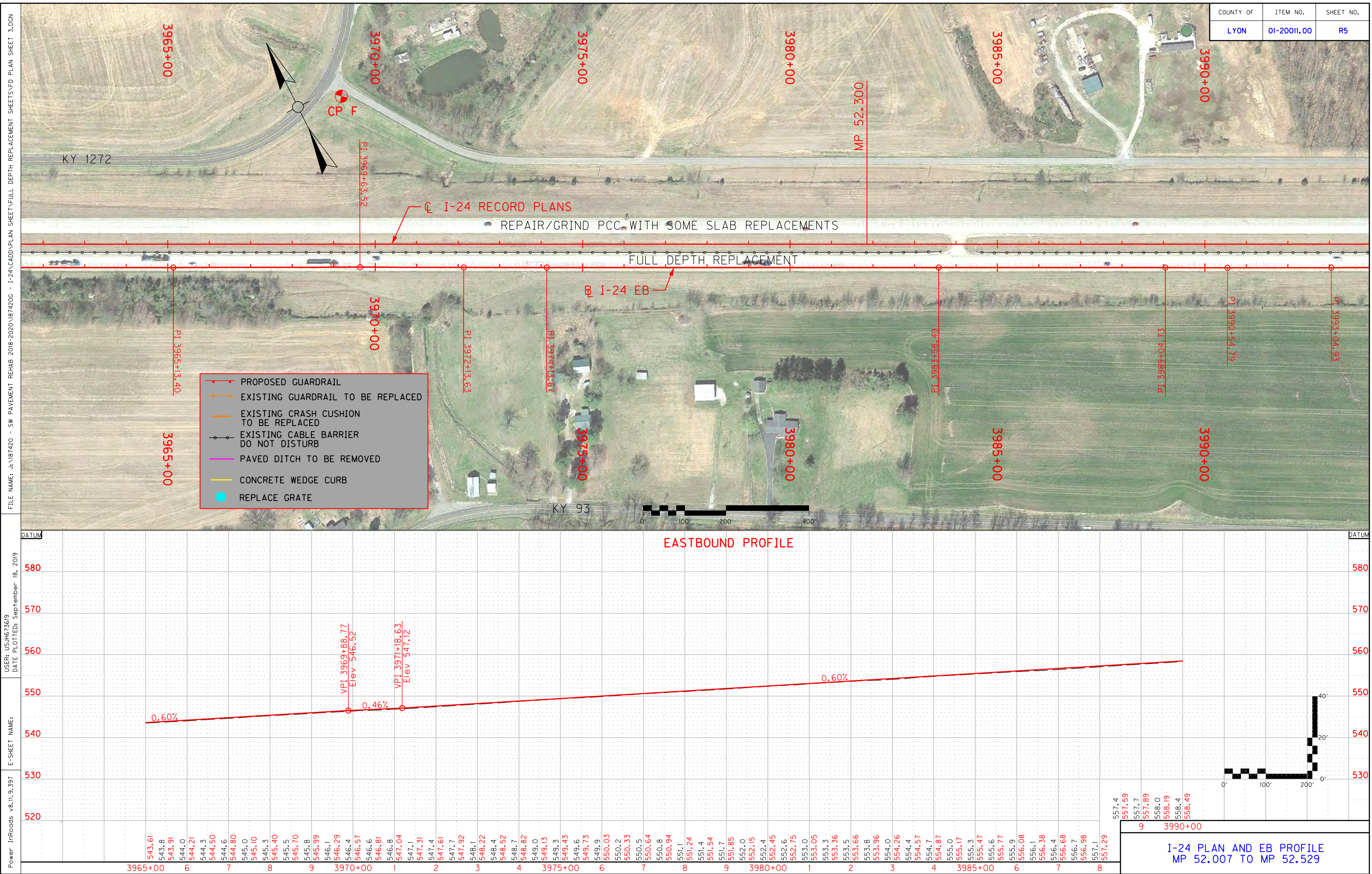
REPAIR/GRIND PCC WITH SOME SLAB REPLACEMENTS

FRONTAGE
ROAD 6

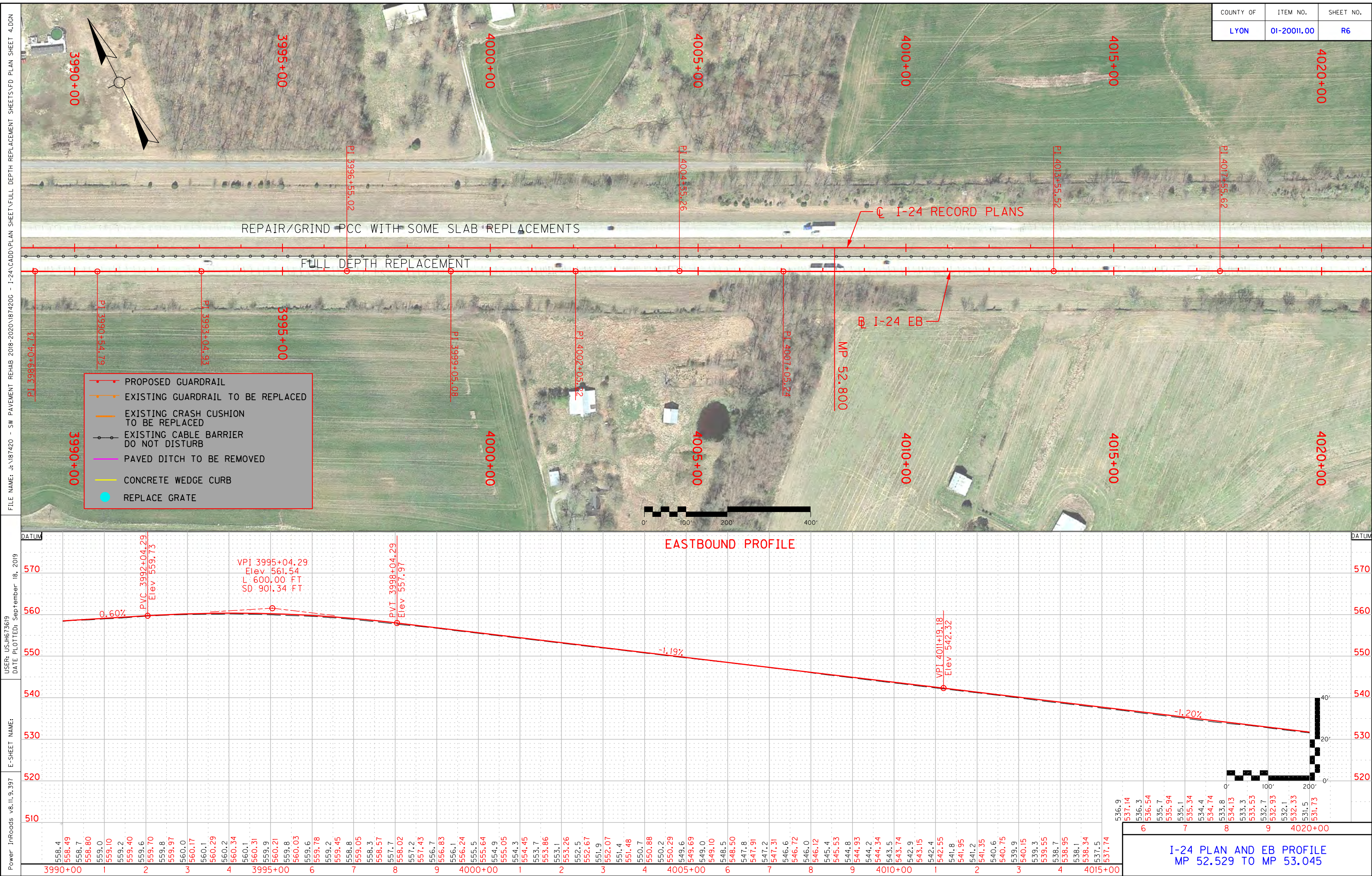


I-24 PLAN SHEET
MP 51.00 TO MP 51.44

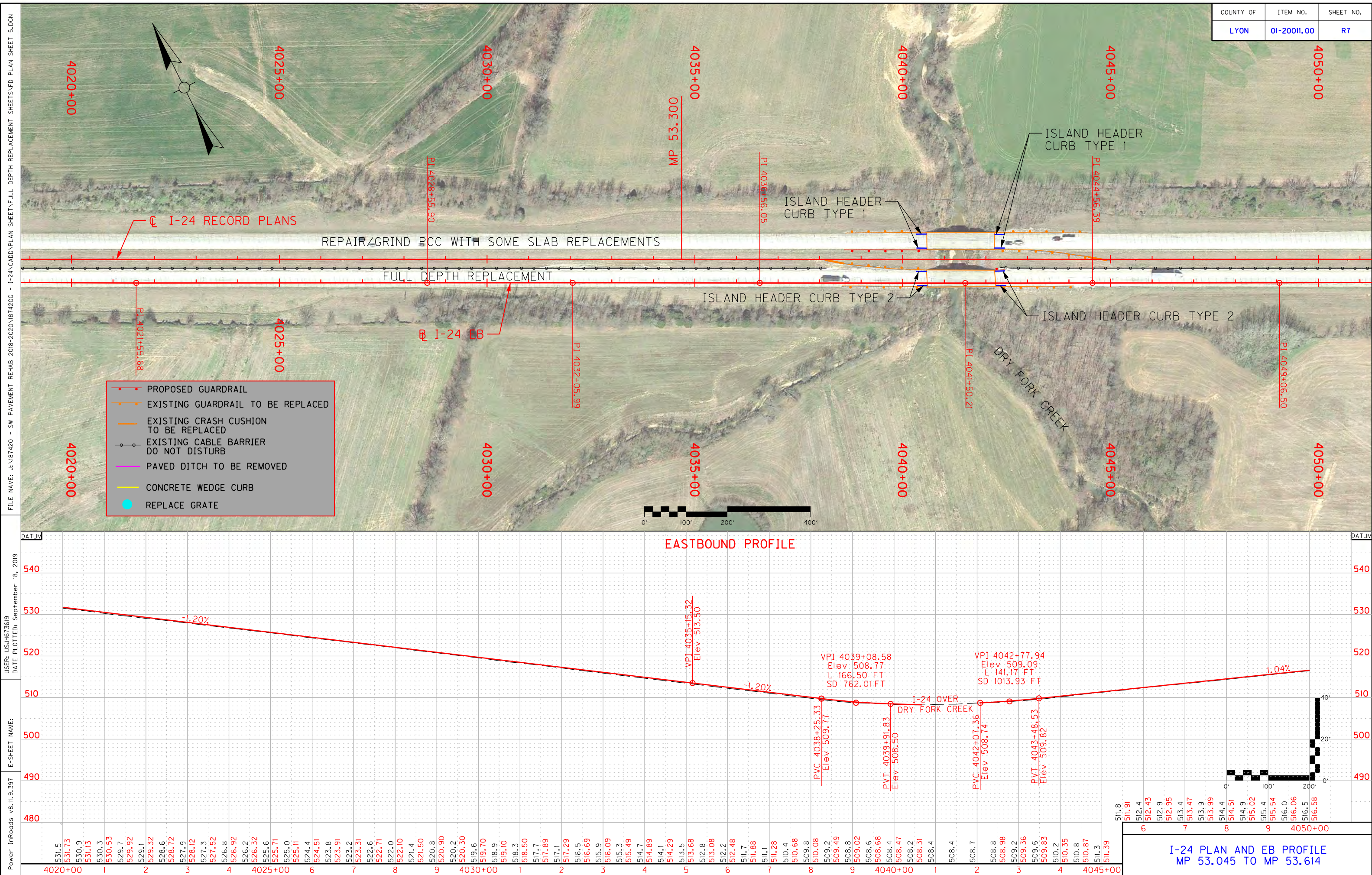




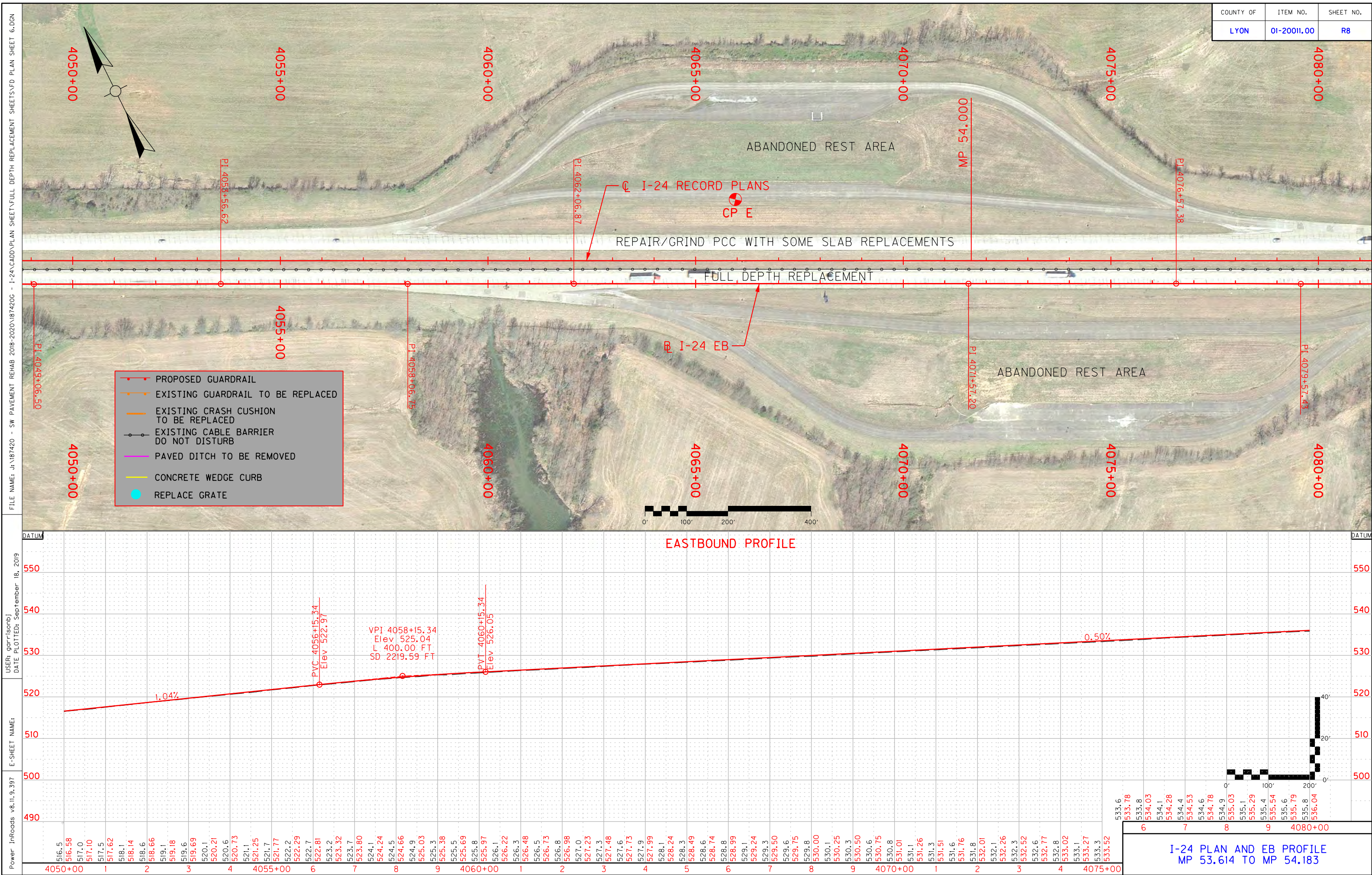
COUNTY OF	ITEM NO.	SHEET NO.
LYON	01-20011.00	R6



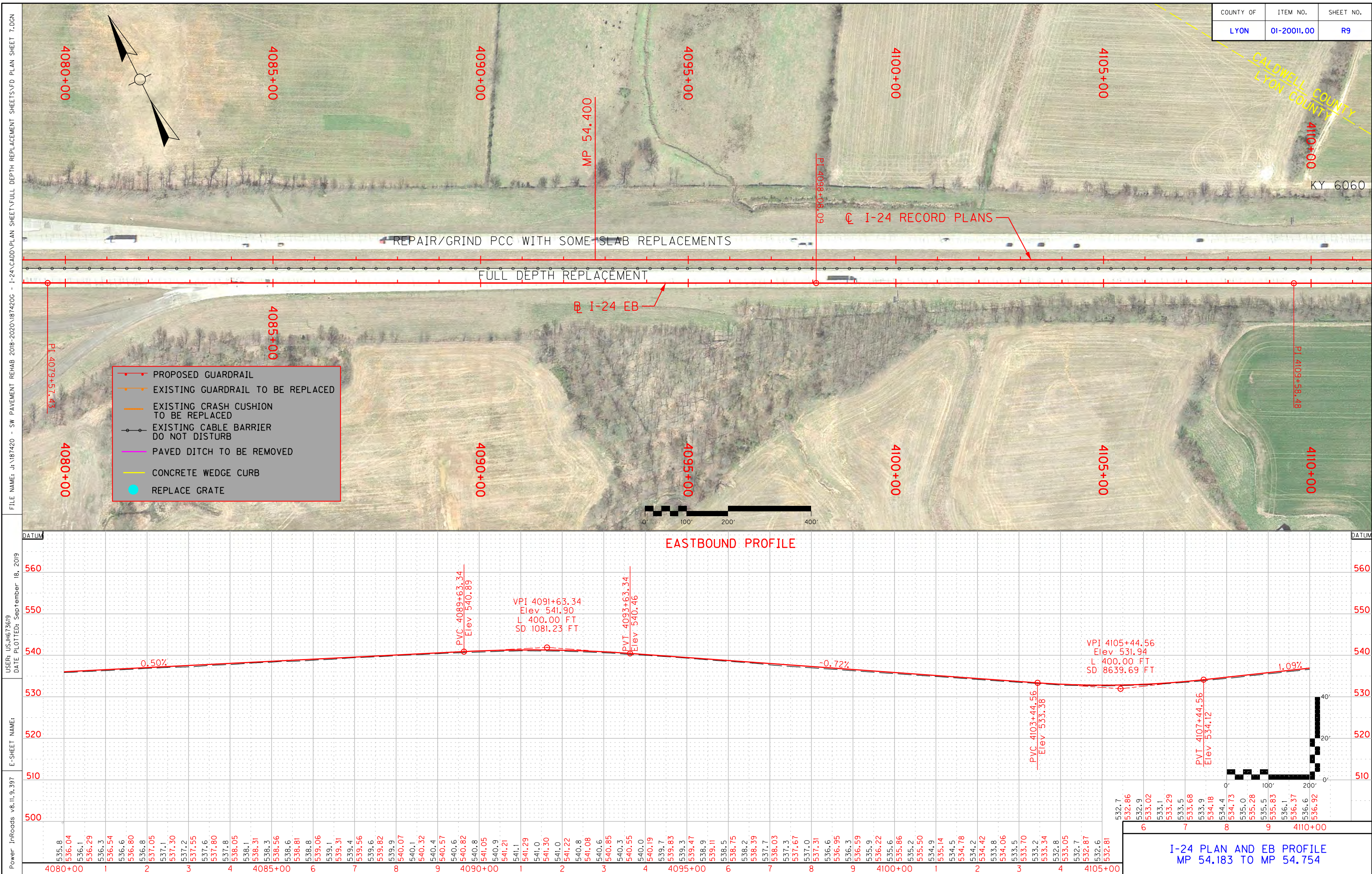
COUNTY OF	ITEM NO.	SHEET NO.
LYON	01-20011.00	R7



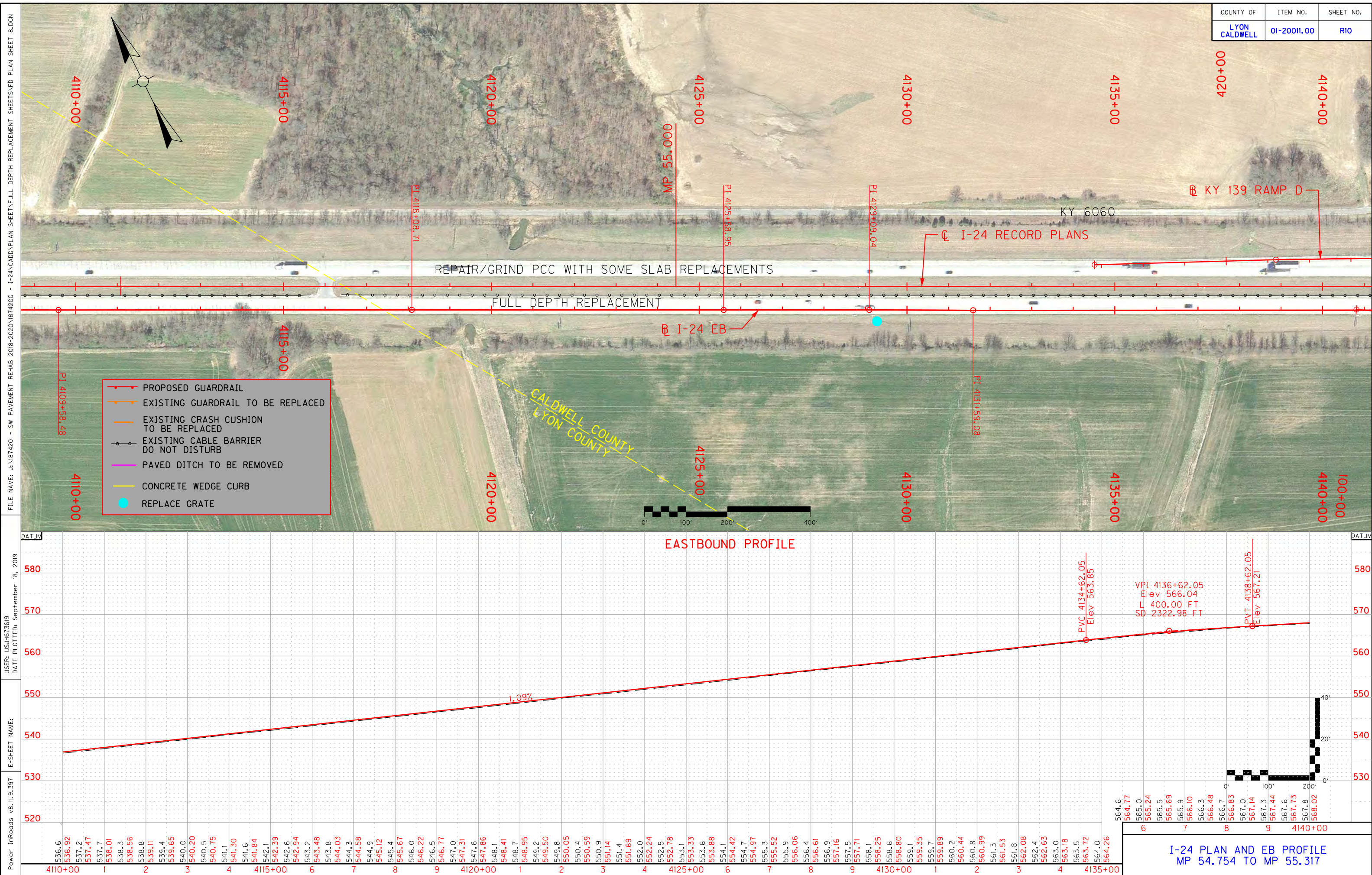
COUNTY OF	ITEM NO.	SHEET NO.
LYON	01-20011.00	R8



COUNTY OF	ITEM NO.	SHEET NO.
LYON	01-20011.00	R9



COUNTY OF	ITEM NO.	SHEET NO.
LYON CALDWELL	01-20011.00	R10



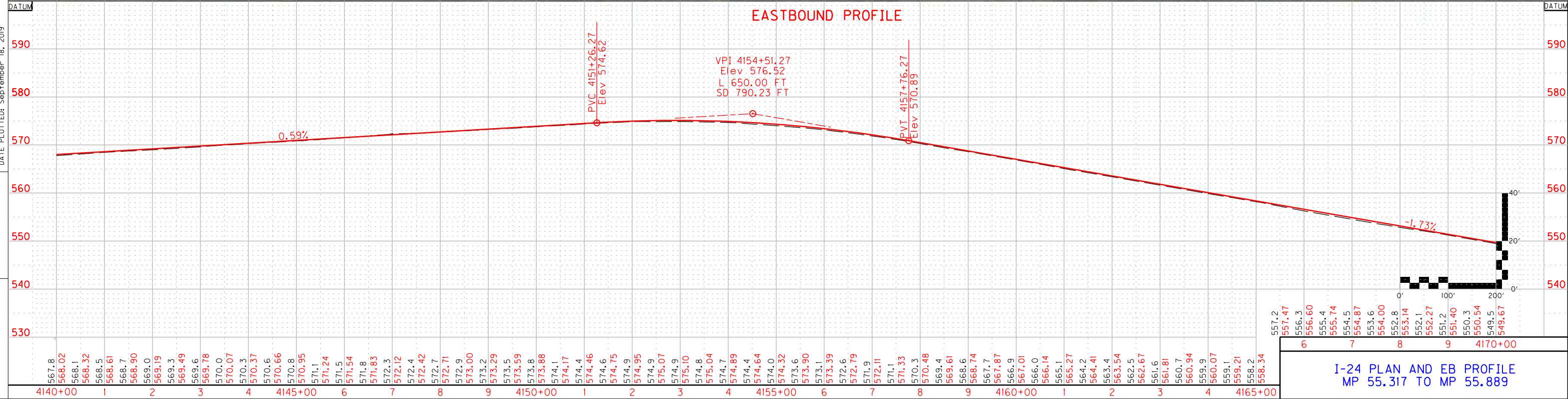
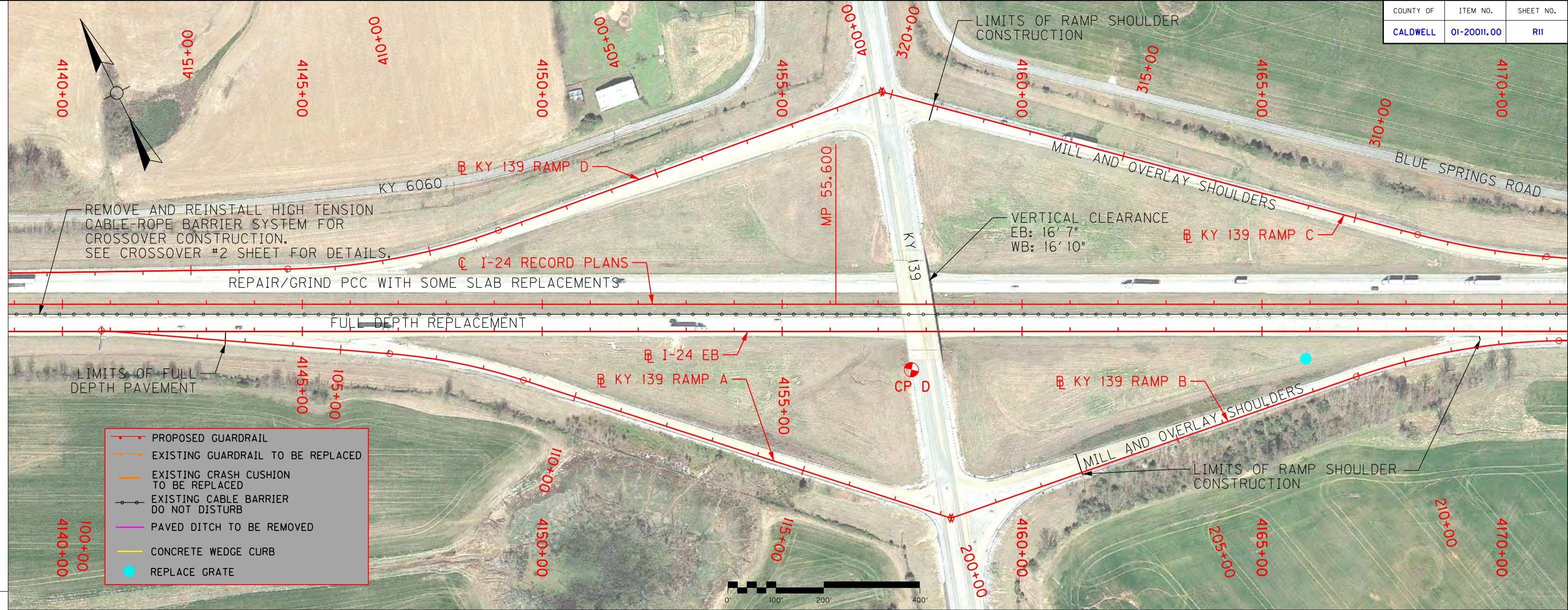
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USER: garrisonbj
DATE PLOTTED: September 18, 2019

E-SHEET NAME:

Power InRoads v8.11.9.397

COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL	01-20011.00	R11



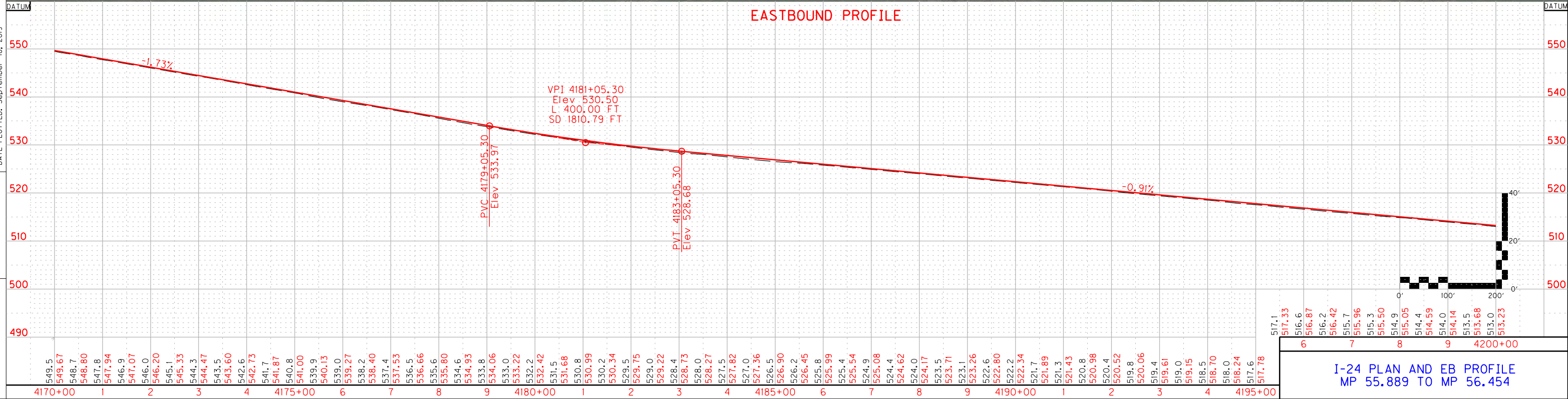
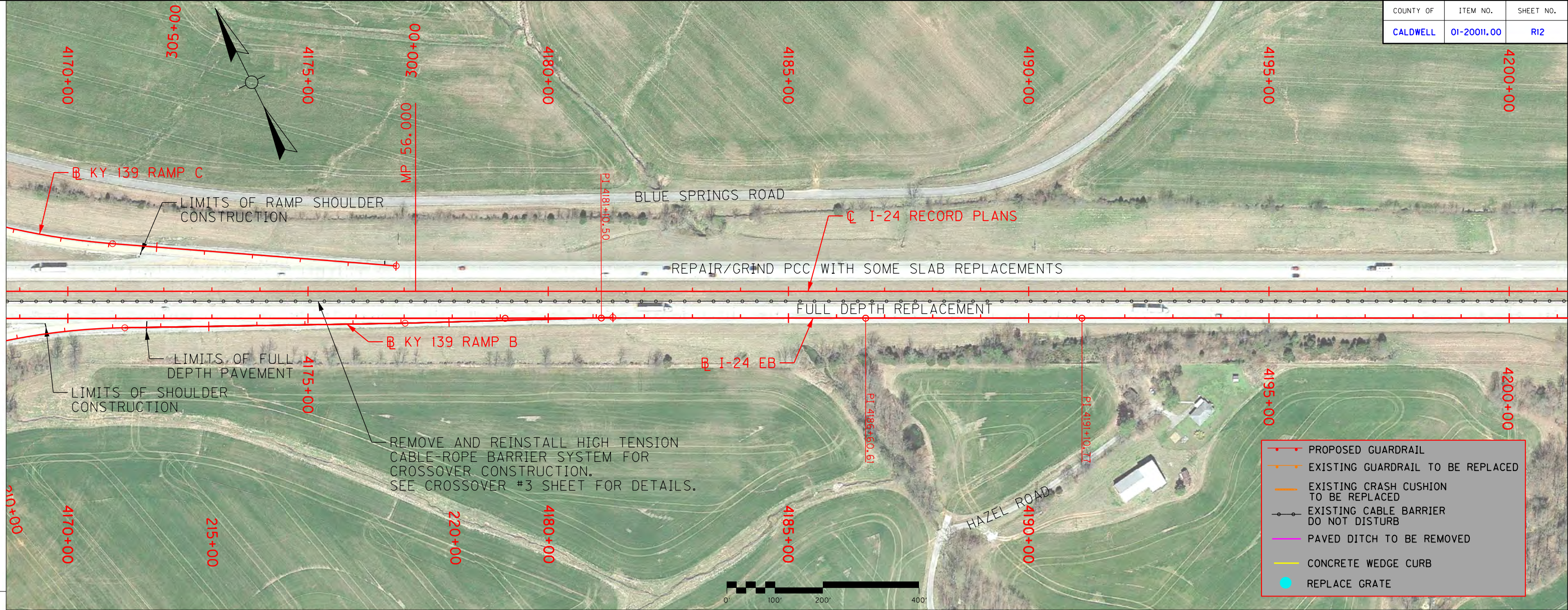
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USER: garrisonbj
DATE PLOTTED: September 18, 2019

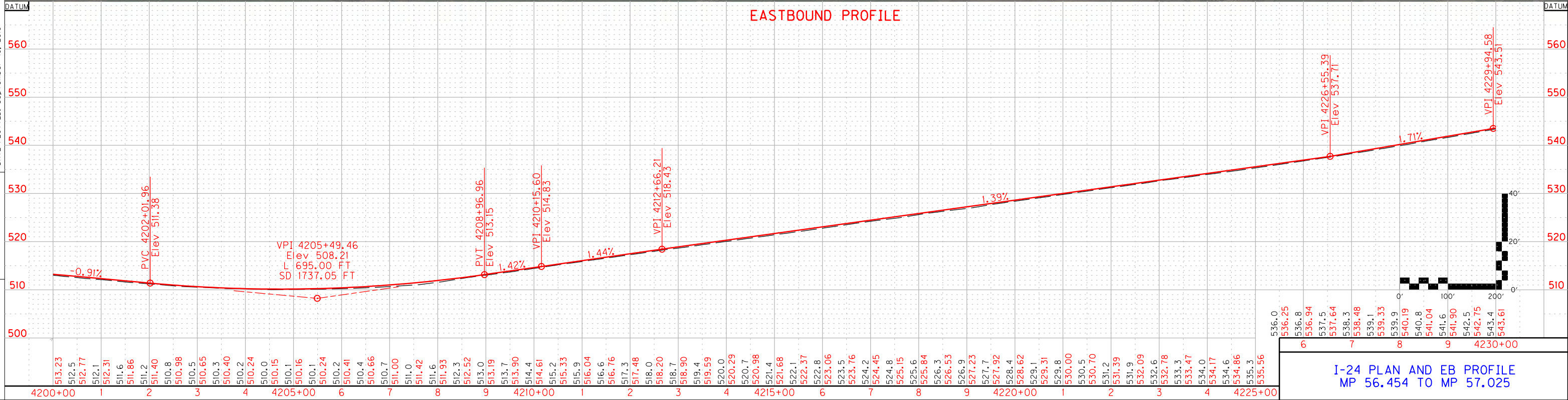
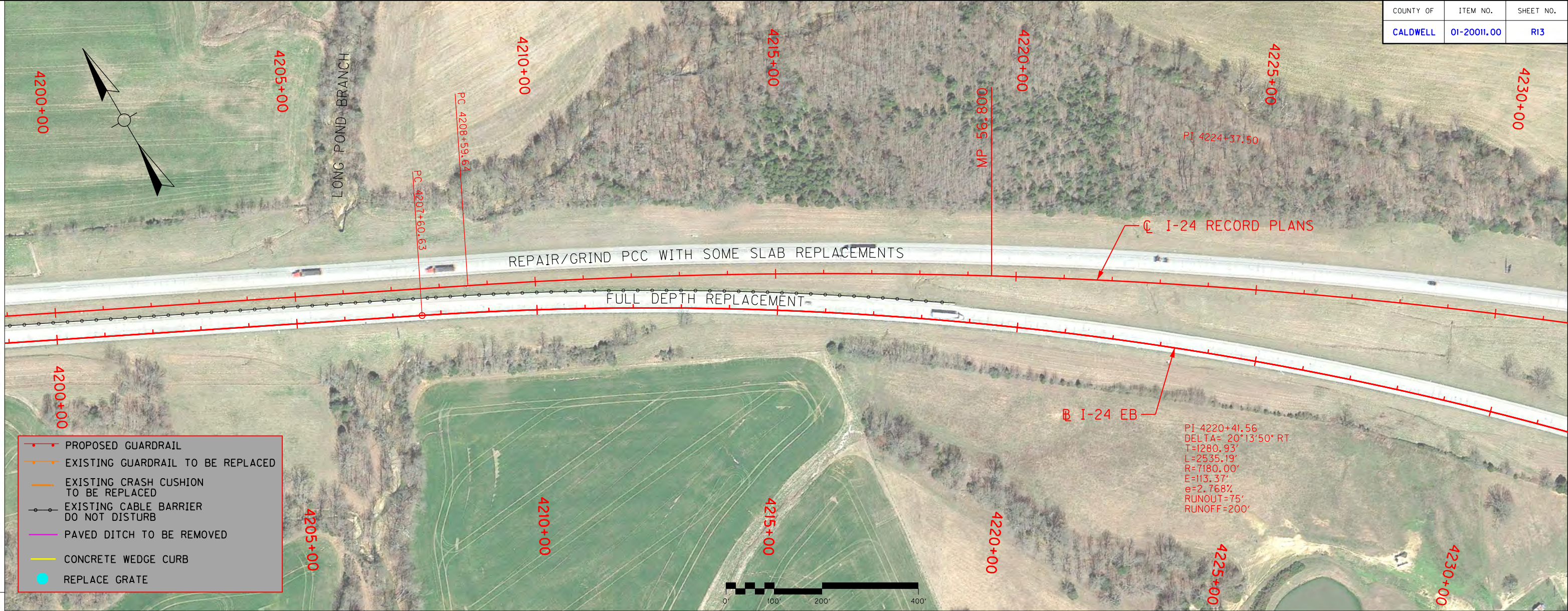
E-SHEET NAME:

Power InRoads v8.11.9.397

COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL	01-20011.00	R12



COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL	01-20011.00	R13



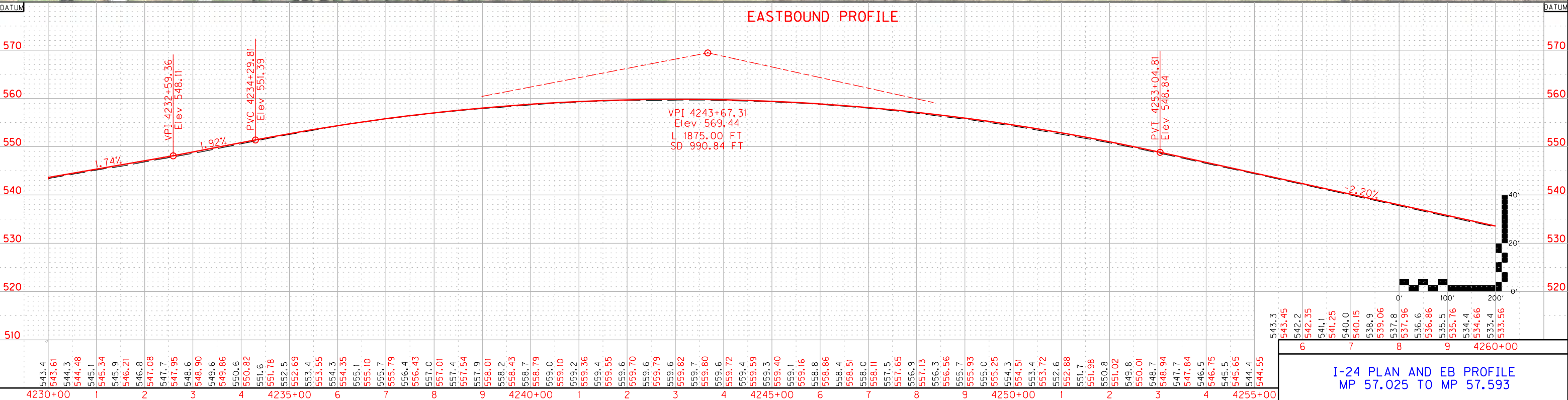
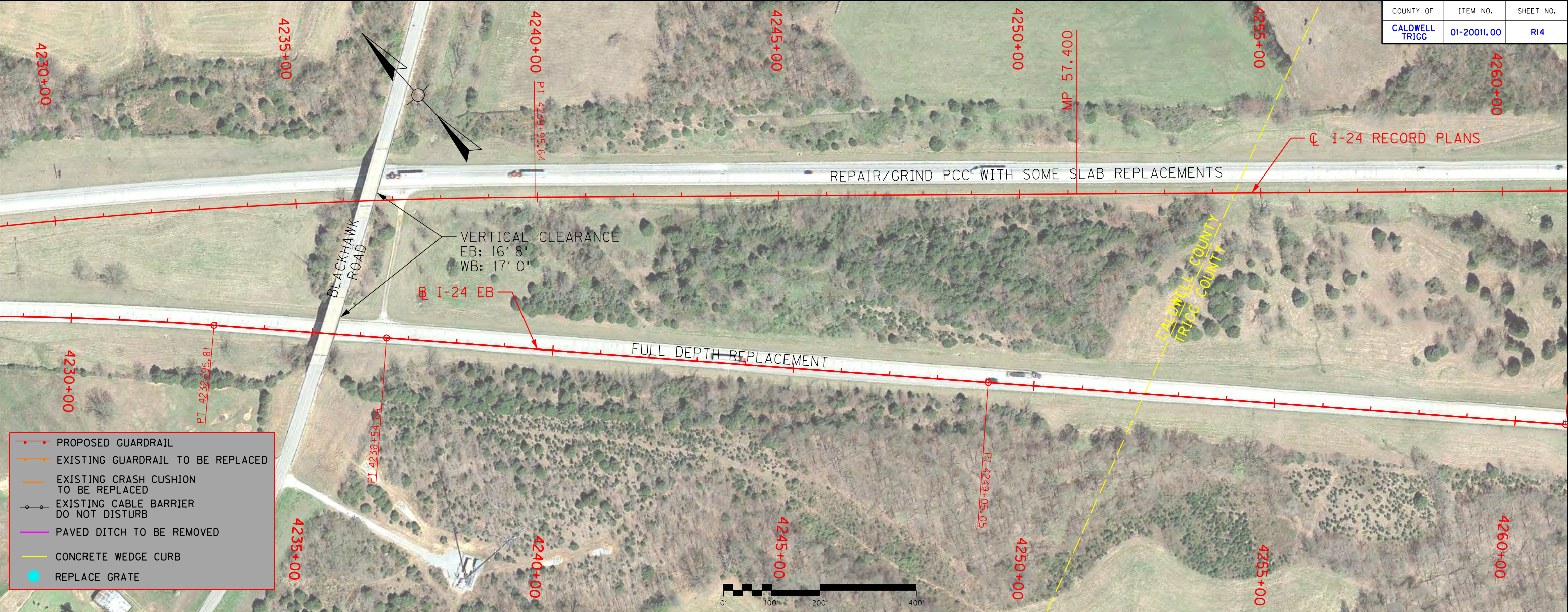
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USER: USJH673619
DATE PLOTTED: September 18, 2019

E-SHEET NAME:

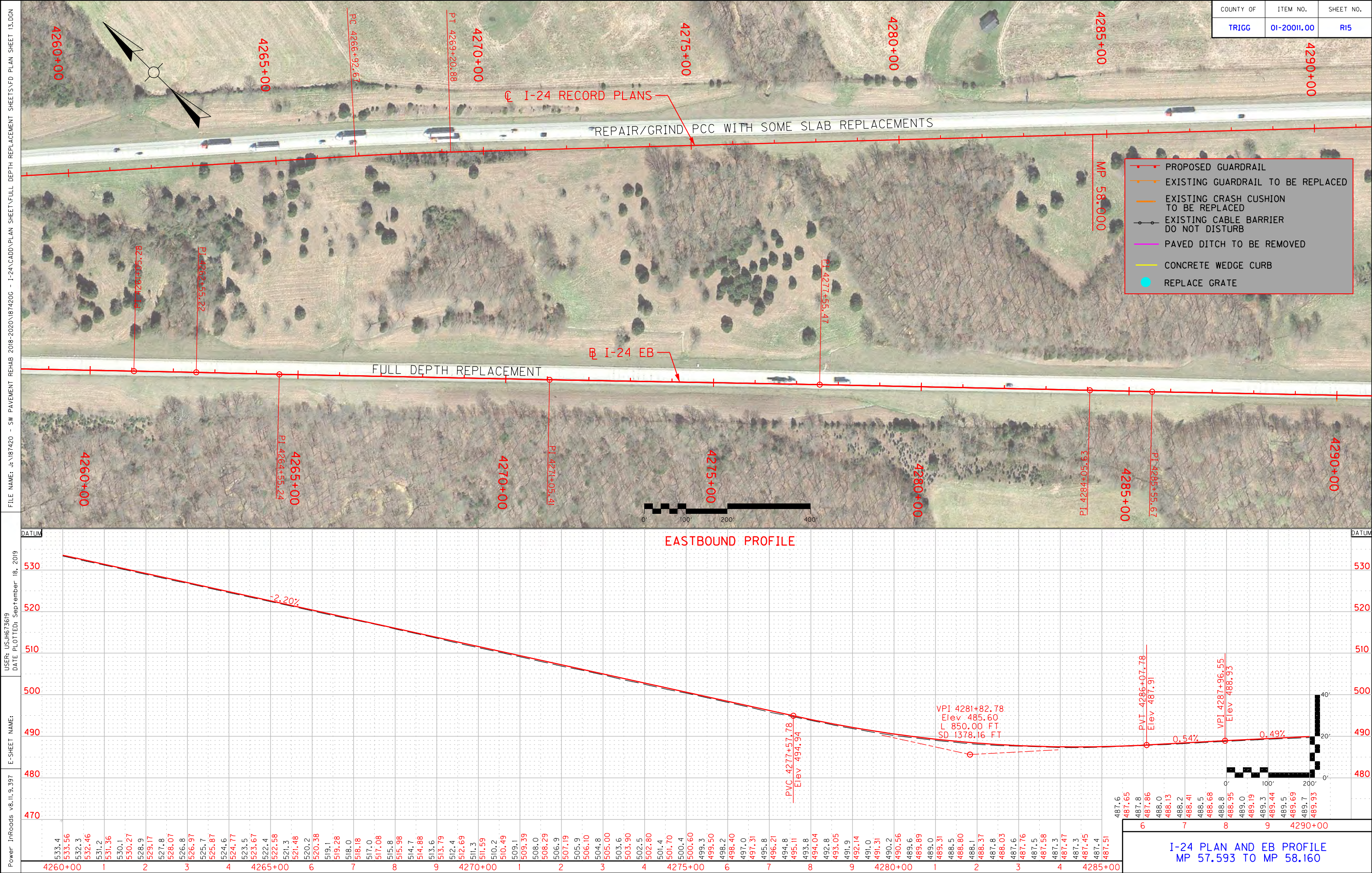
Power InRoads v8.11.9.397

COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL TRIGG	01-20011.00	R14

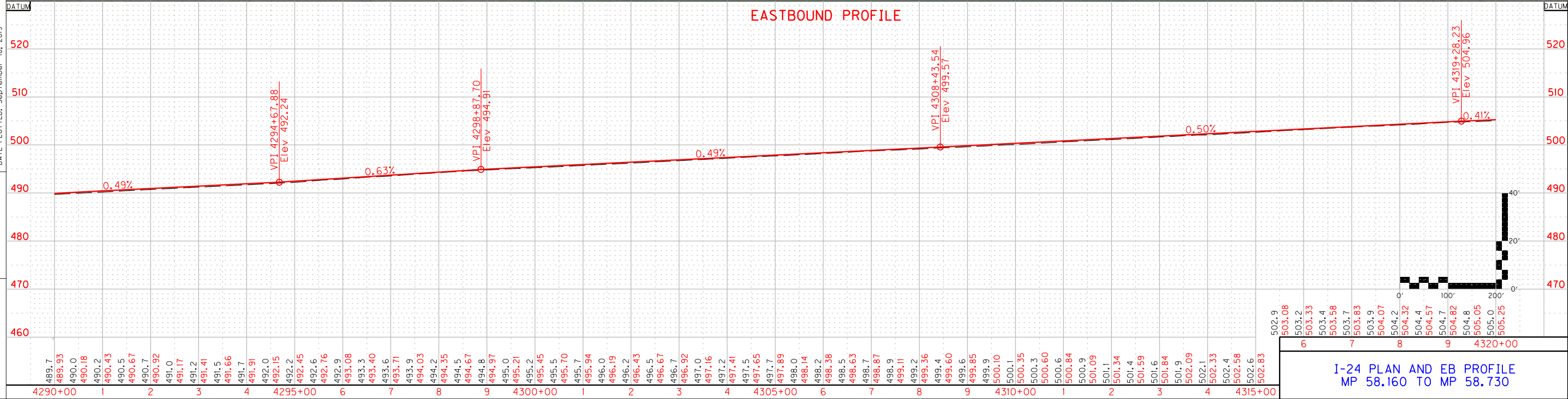
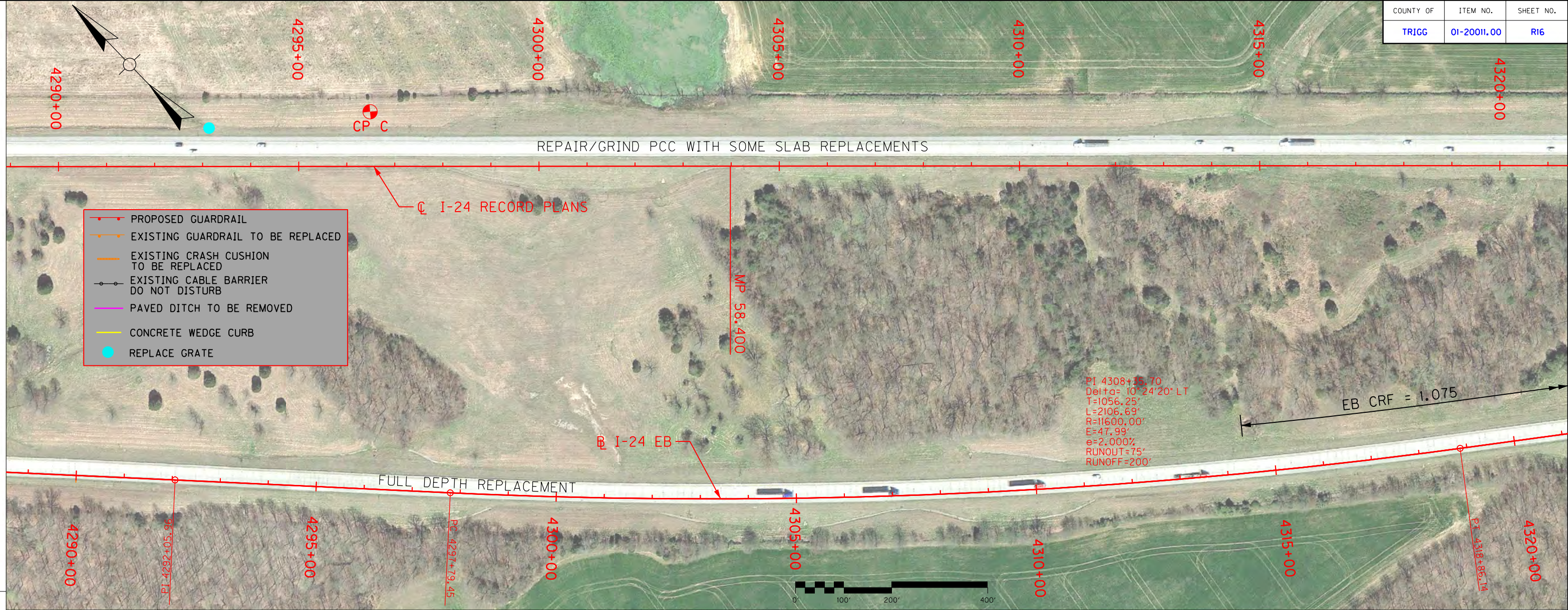


- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE

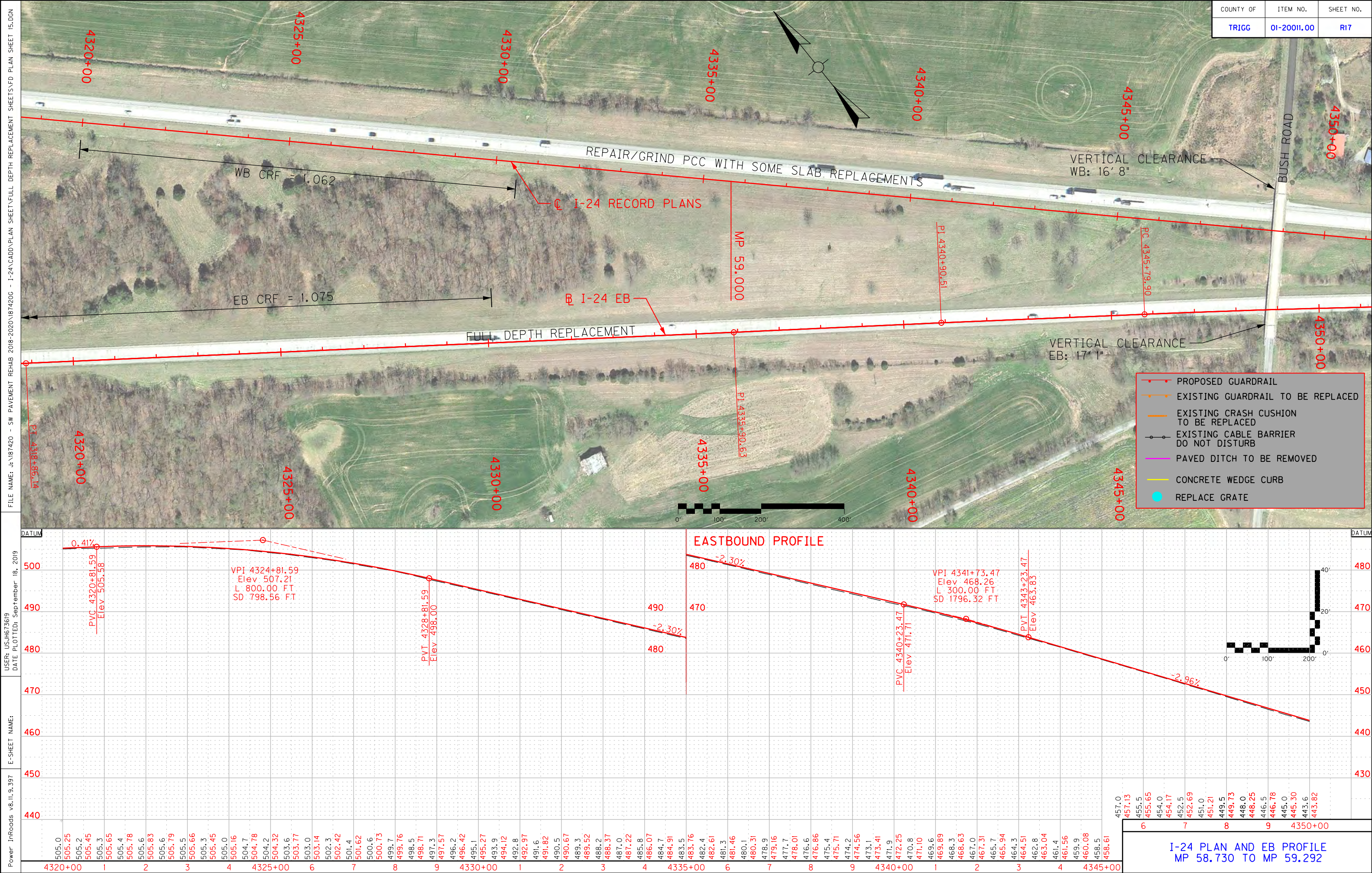
I-24 PLAN AND EB PROFILE
MP 57.025 TO MP 57.593



COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R16

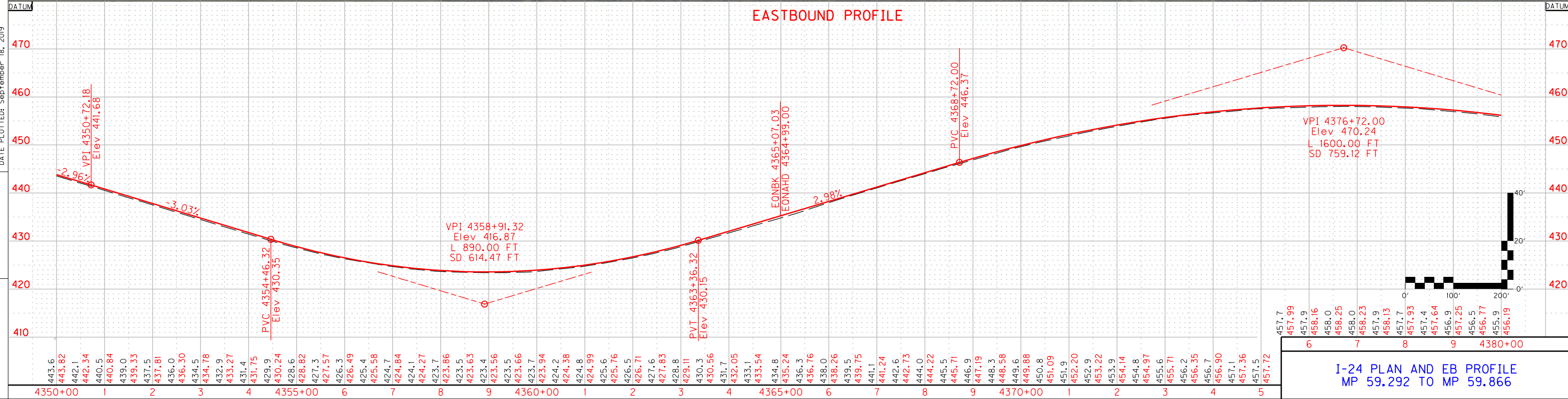
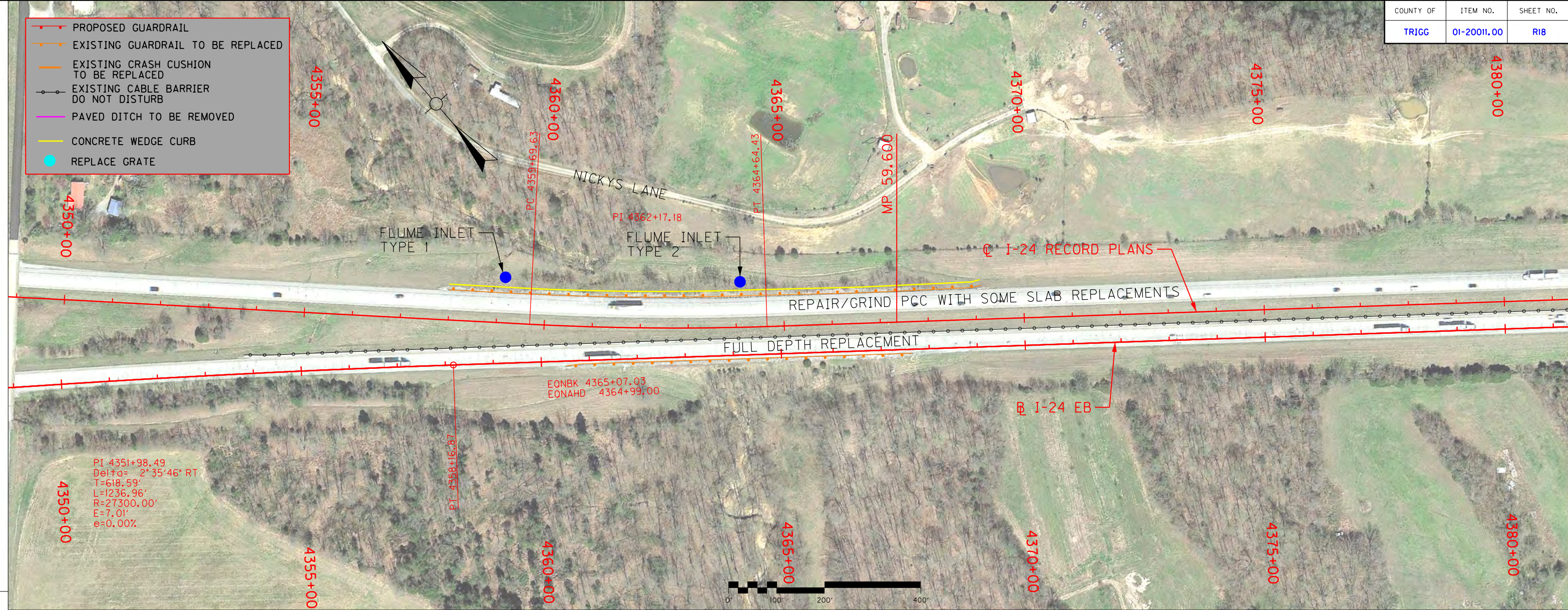


I-24 PLAN AND EB PROFILE
MP 58.160 TO MP 58.730

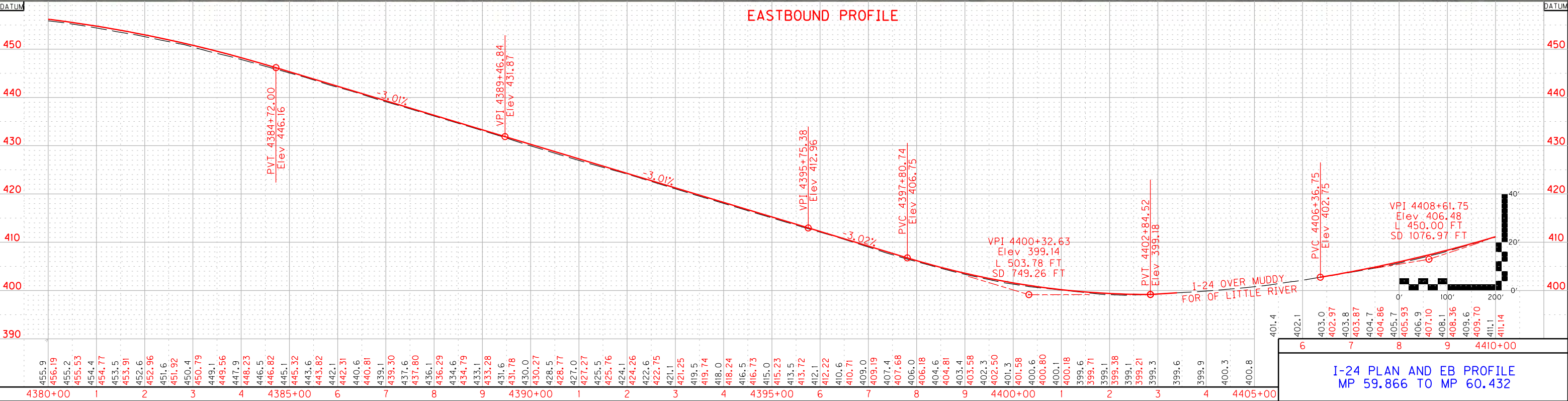
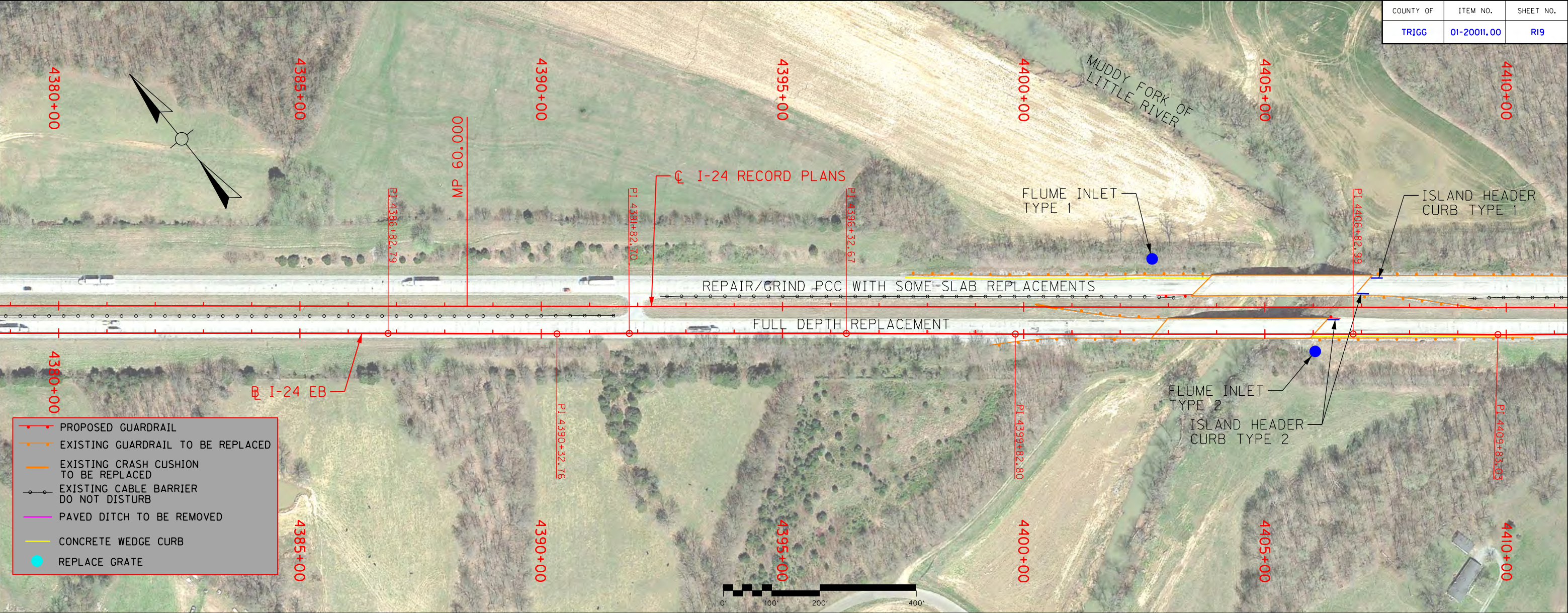


COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R18

- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE

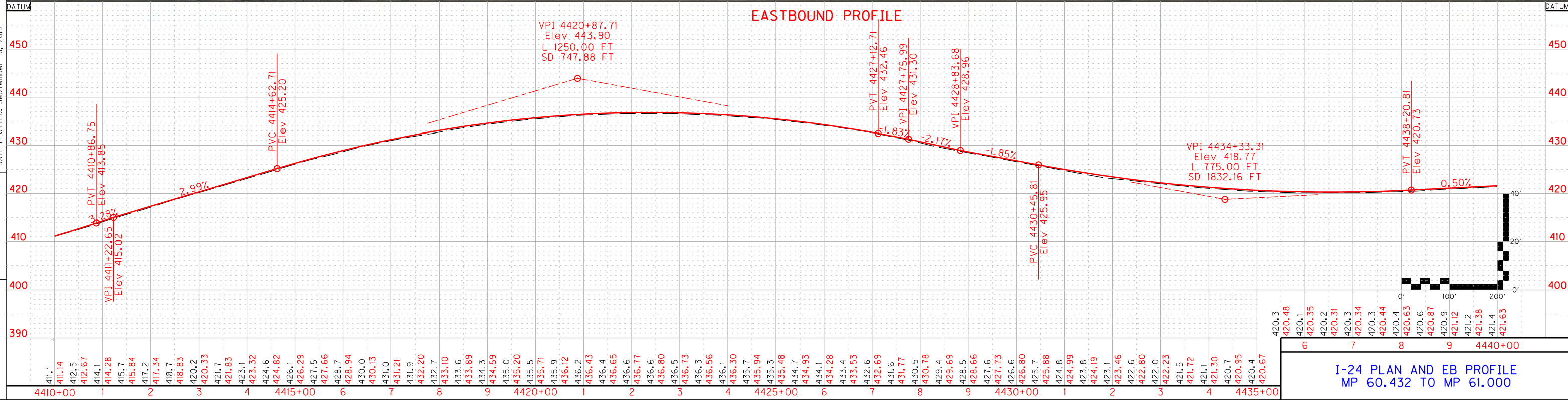
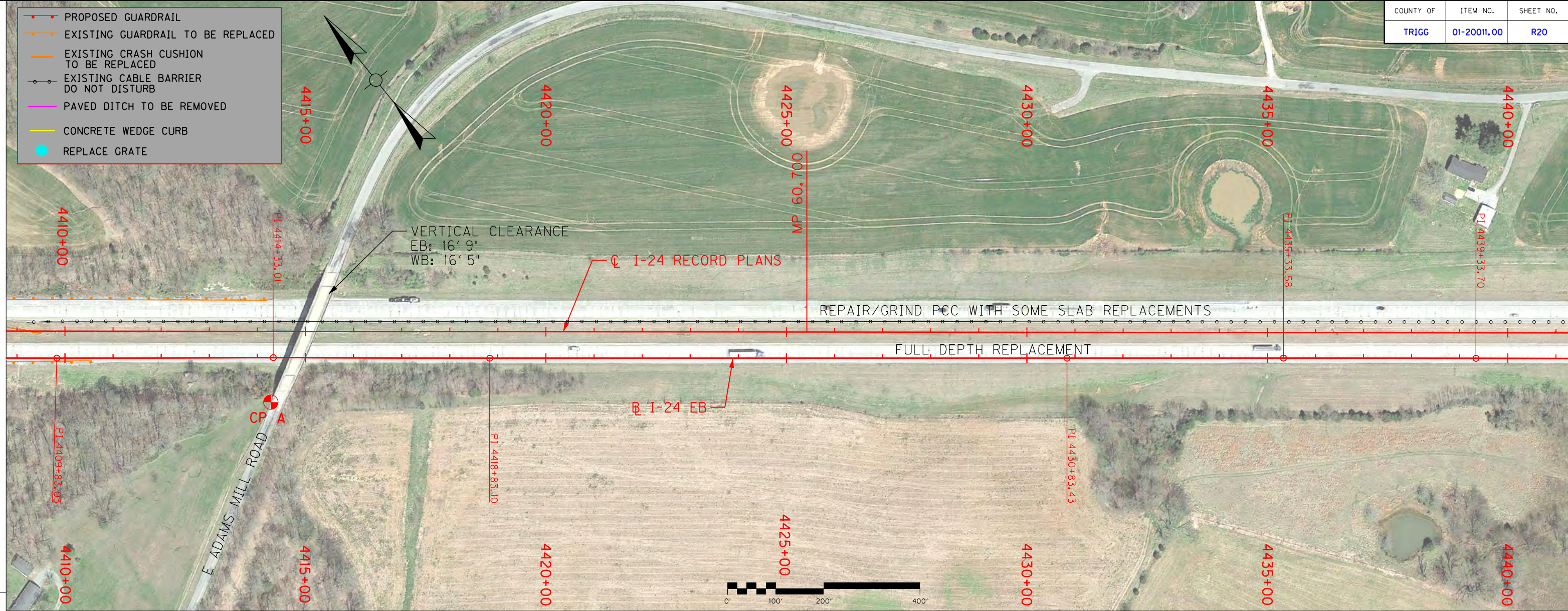


COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R19



COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R20

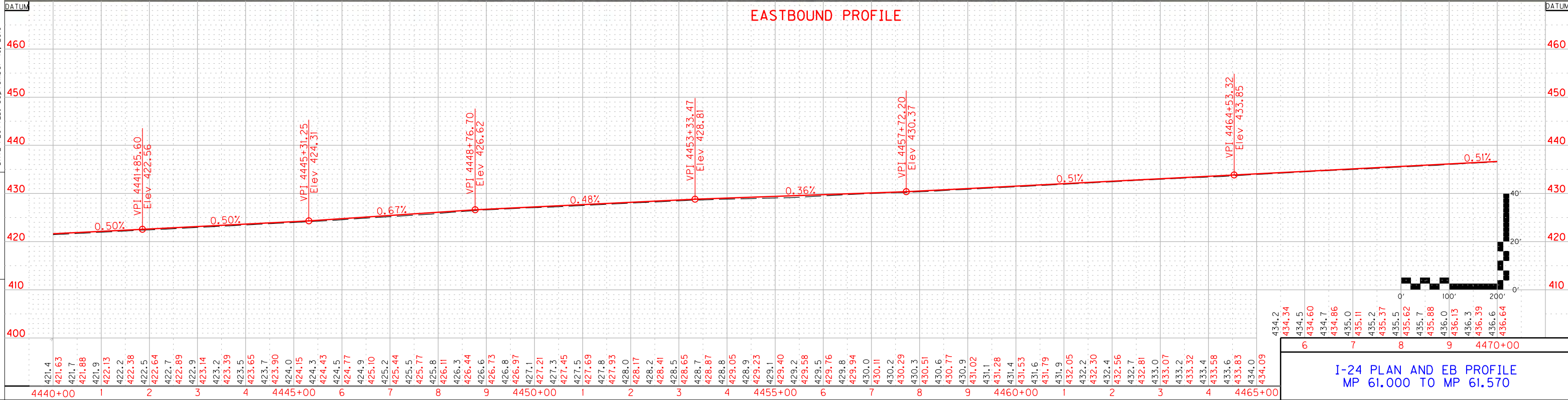
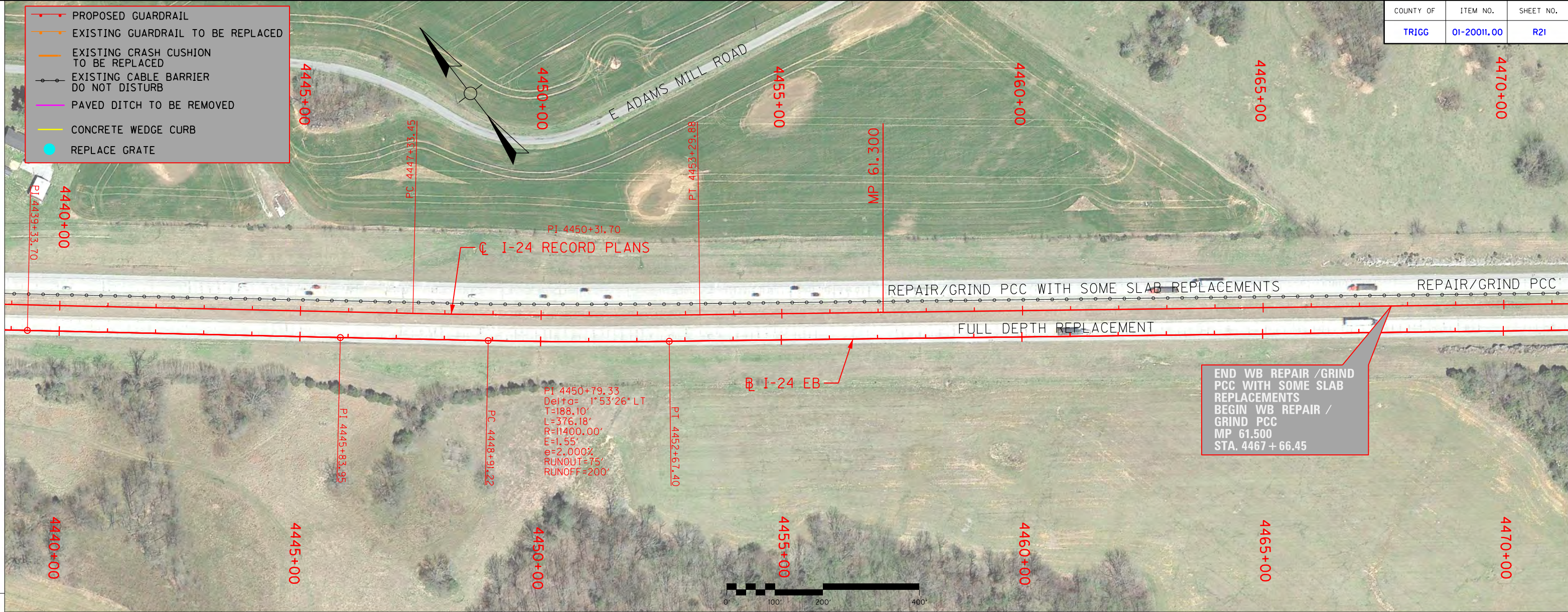
- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE



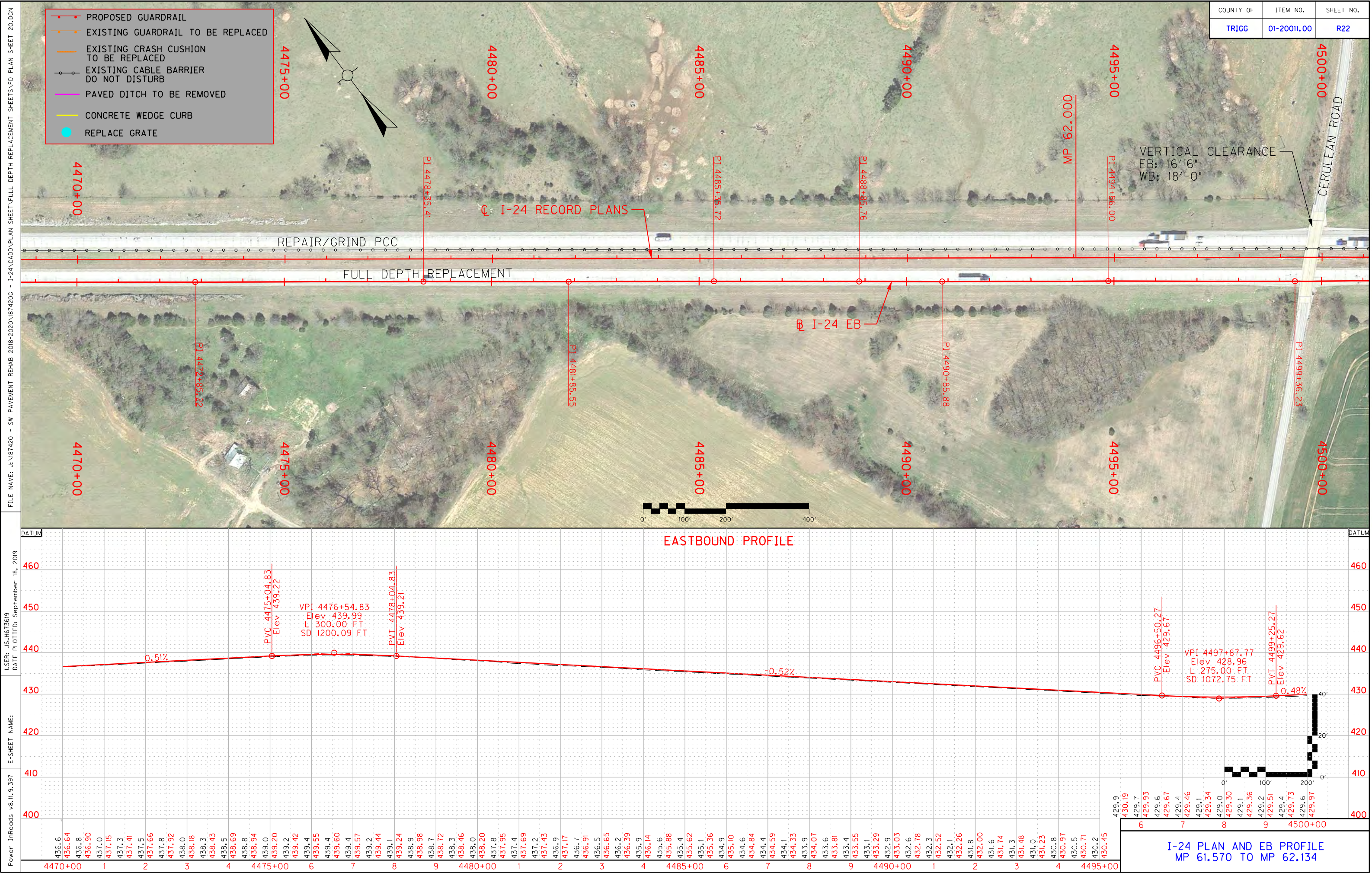
I-24 PLAN AND EB PROFILE
MP 60.432 TO MP 61.000

COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R21

- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE

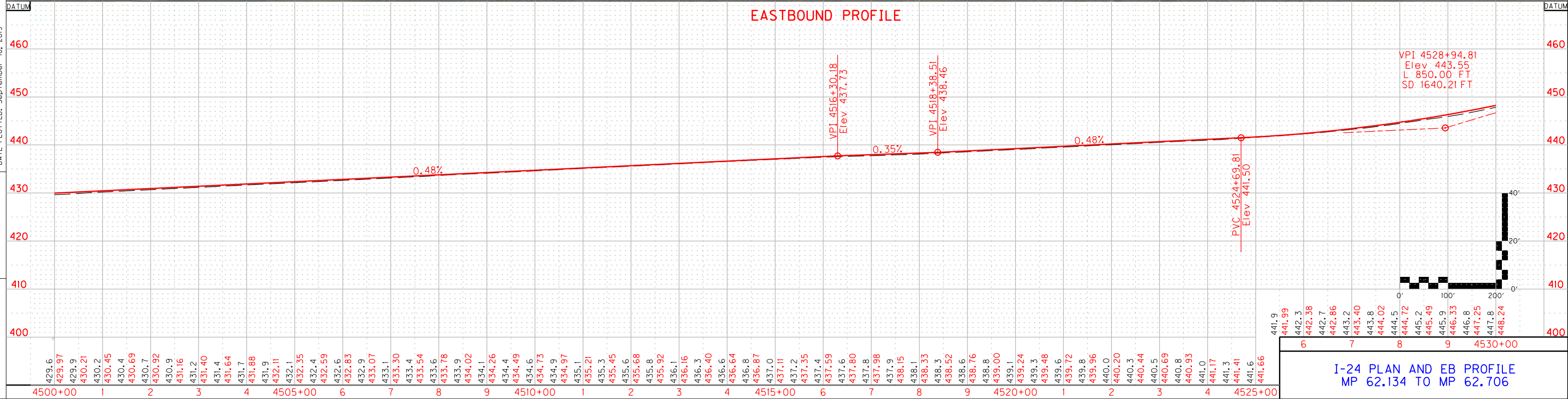
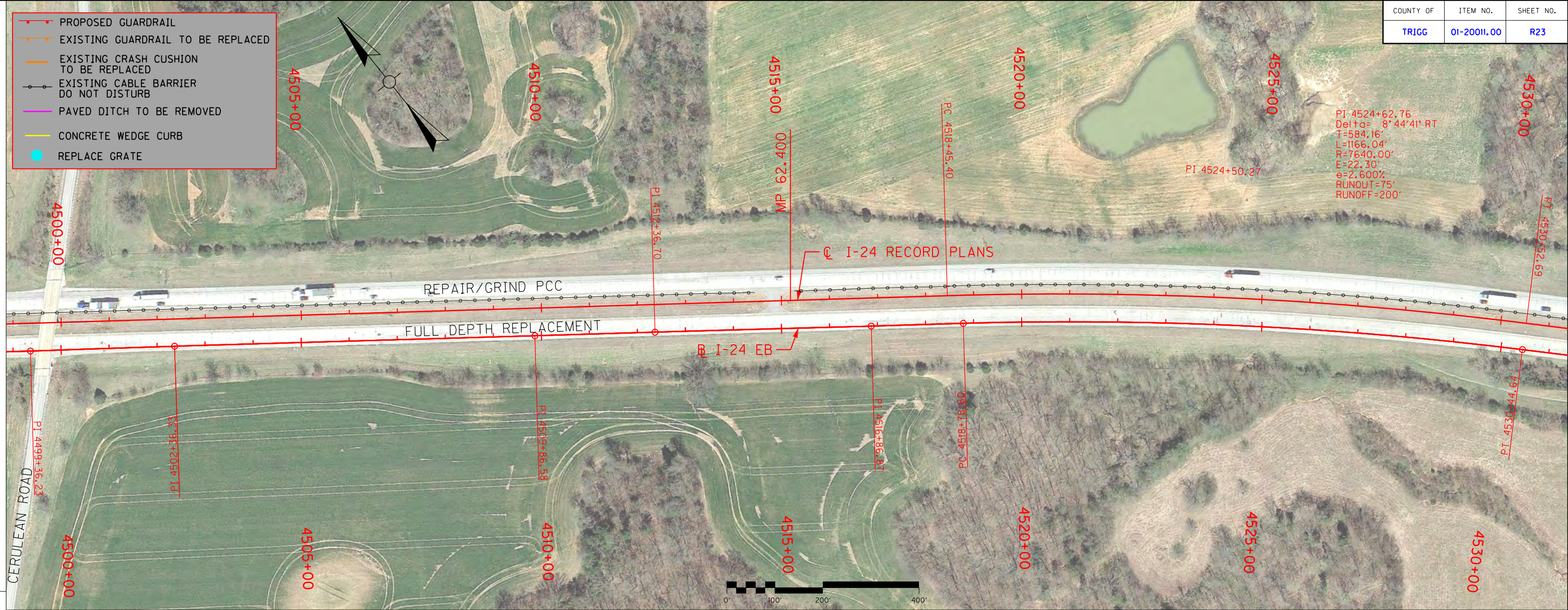


COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R22

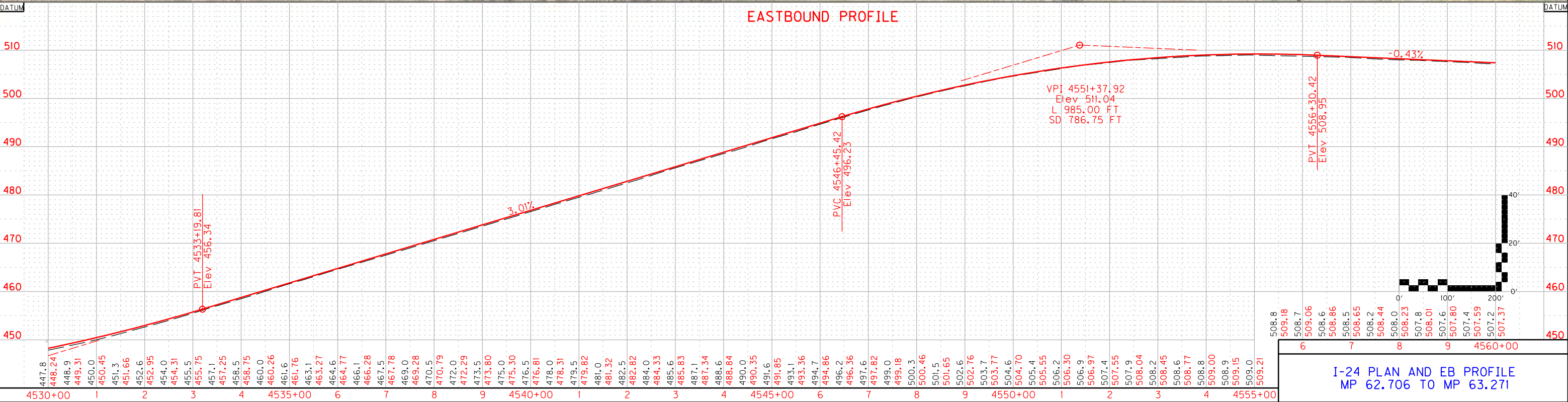
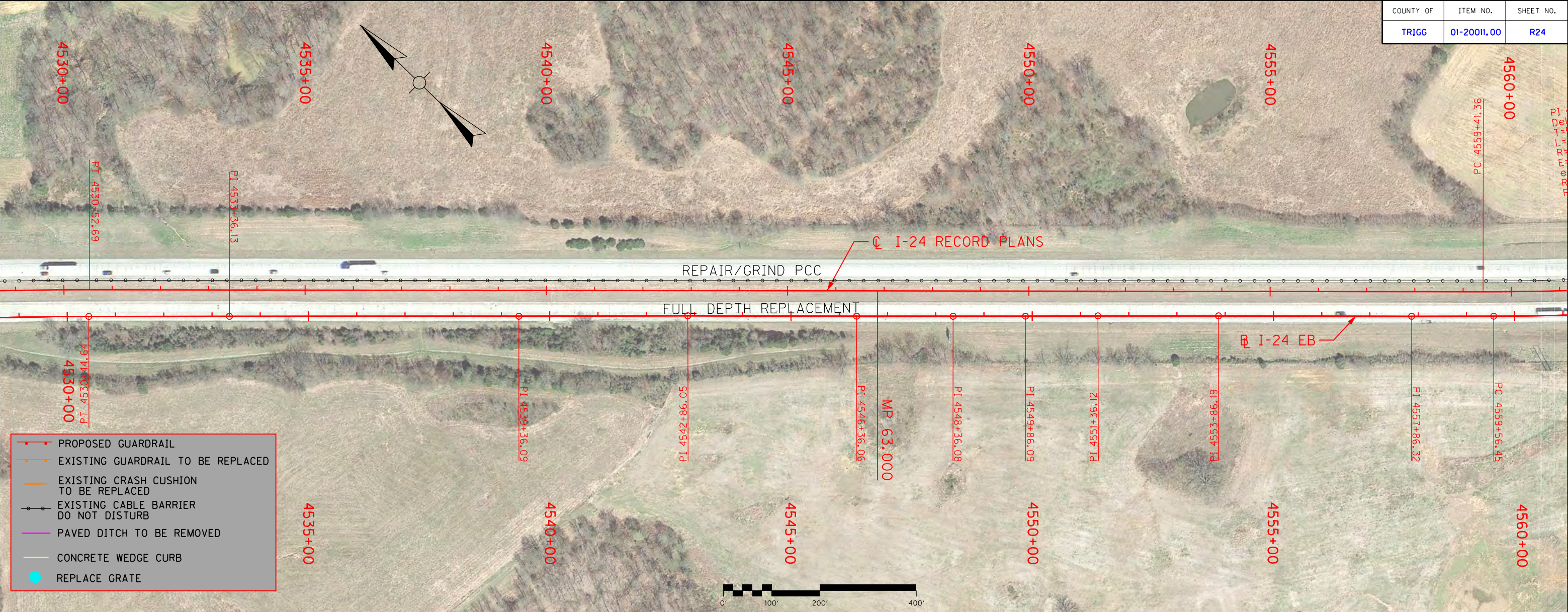


COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R23

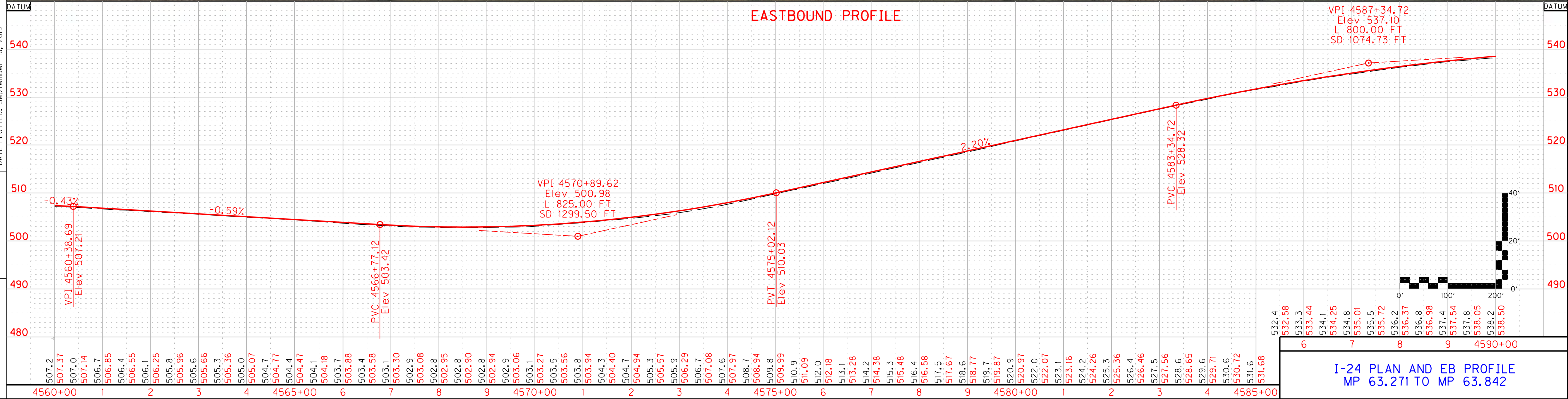
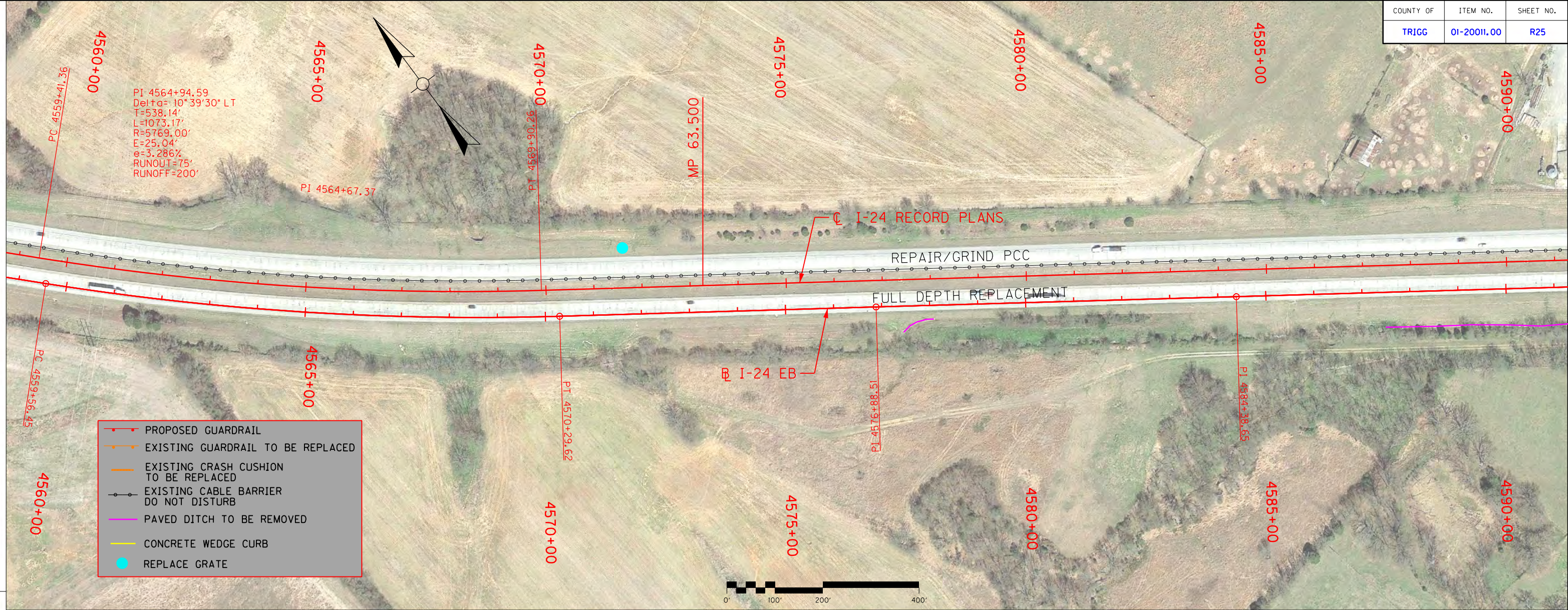
- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE



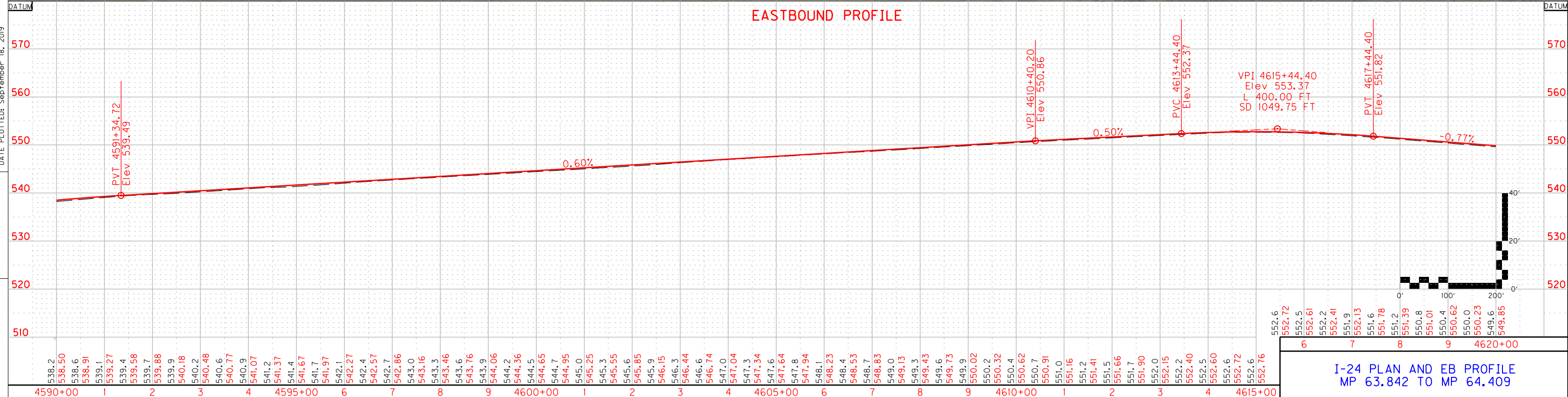
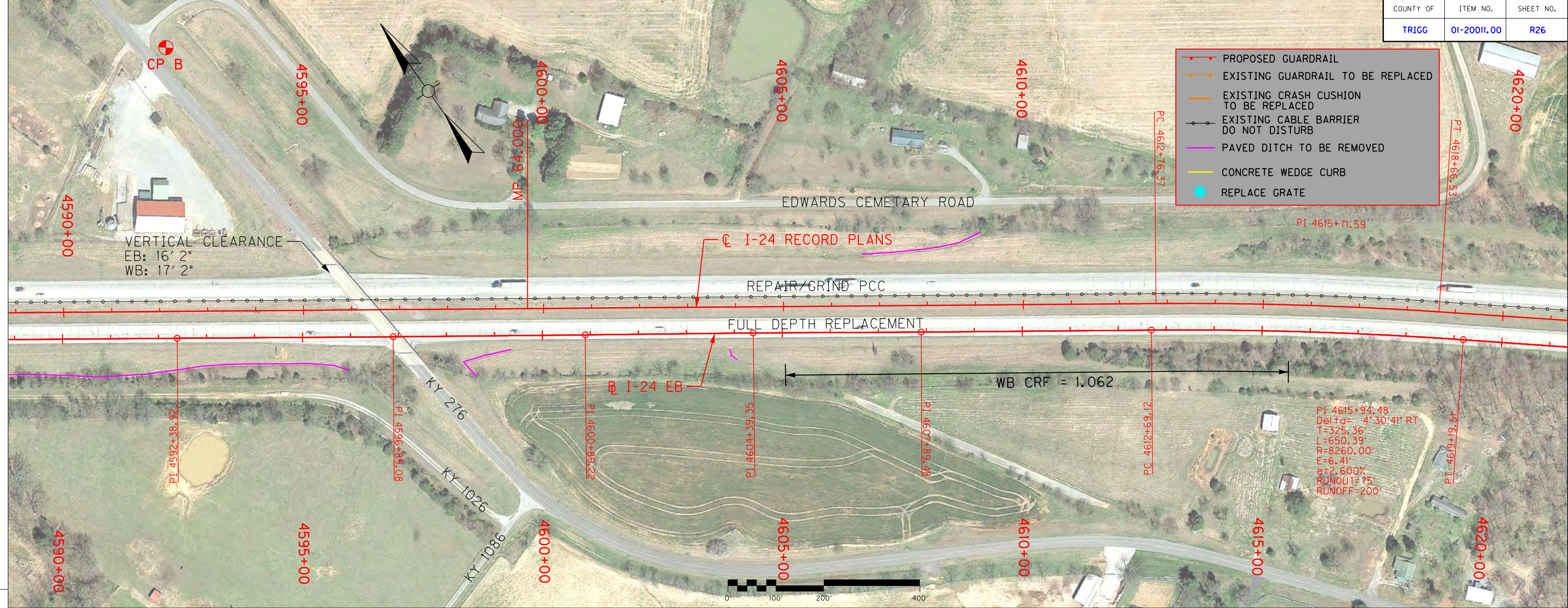
COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R24



COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R25



-  PROPOSED GUARDRAIL
-  EXISTING GUARDRAIL TO BE REPLACED
-  EXISTING CRASH CUSHION TO BE REPLACED
-  EXISTING CABLE BARRIER DO NOT DISTURB
-  PAVED DITCH TO BE REMOVED
-  CONCRETE WEDGE CURB
-  REPLACE GRATE



FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420G - I-24 CADD\PLAN SHEET\FULL DEPTH REPLACEMENT SHEETS\FD PLAN SHEET 25.DGN

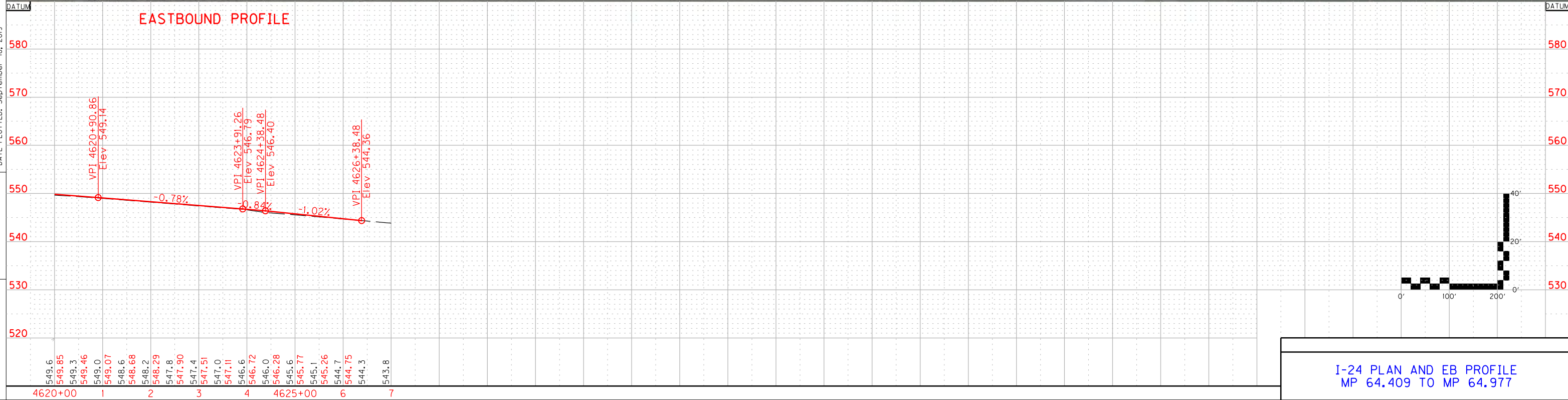
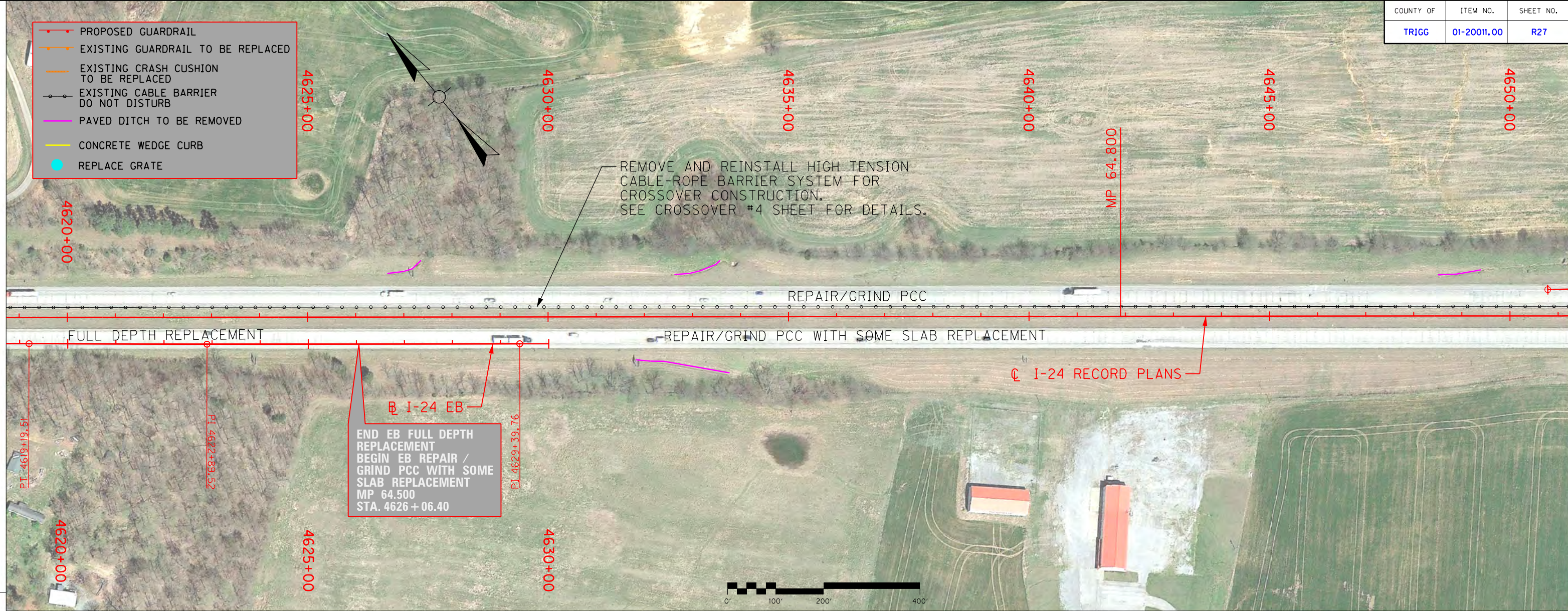
USER: garrisonbj
DATE PLOTTED: September 18, 2019

E-SHEET NAME:

Power InRoads v8.11.9.397

COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R27

- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE



I-24 PLAN AND EB PROFILE
MP 64.409 TO MP 64.977

FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420G - 1-24\CADD\PLAN SHEET\FULL DEPTH REPLACEMENT SHEETS\PD PLAN SHEET 27.DGN

USER: USJH673619
DATE PLOTTED: September 18, 2019

E-SHEET NAME:

Power InRoads v8.11.9.397

COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R29



Power InRoads v8.11.9.397 E-SHEET NAME: USER: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420G - 1-24\CADD\PLAN SHEET\FULL DEPTH REPLACEMENT SHEETS\FD PLAN SHEET 28.DGN FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420G - 1-24\CADD\PLAN SHEET\FULL DEPTH REPLACEMENT SHEETS\FD PLAN SHEET 28.DGN DATE PLOTTED: September 18, 2019

COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R30

- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE



4685+00

4690+00

4695+00

MP 66.300

4700+00

4705+00

4710+00

4715+00

PC 4715+77.55

Q I-24 RECORD PLANS

REPAIR/GRIND PCC

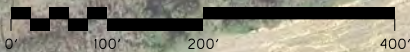
REPAIR/GRIND PCC

BARRIER WALL RETROFITS

ISLAND HEADER
CURB TYPE 1

ISLAND HEADER
CURB TYPE 1

ABANDONED RAILROAD

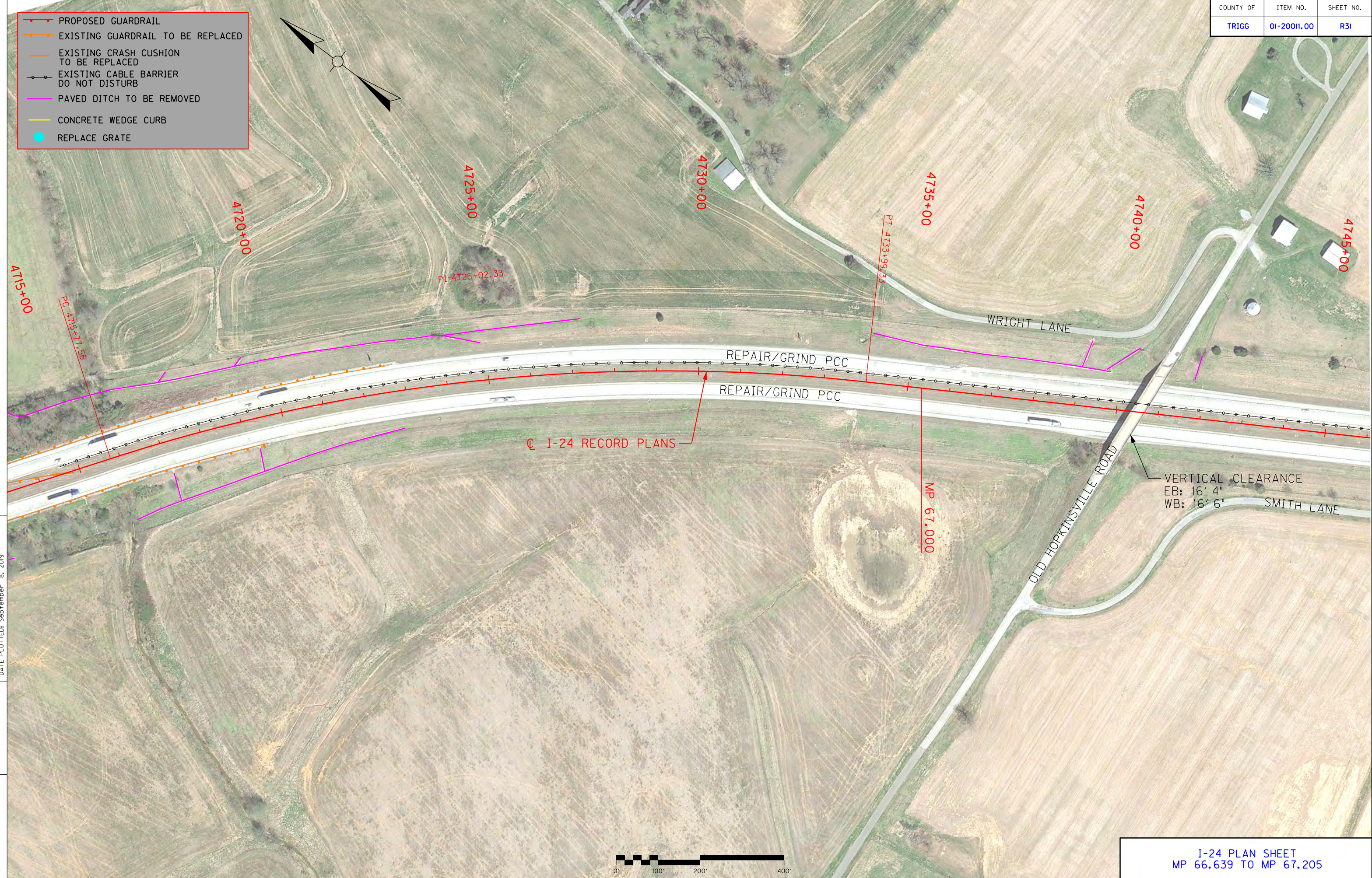


I-24 PLAN SHEET
MP 66.093 TO MP 66.639

Power InRoads v8.11.9.397 E-SHEET NAME: USER: USJH673619 DATE PLOTTED: September 18, 2019 FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420G - 1-24\CADD\PLAN SHEET\FULL DEPTH REPLACEMENT SHEETS\FD PLAN SHEET 29.DGN

- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE

COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R31

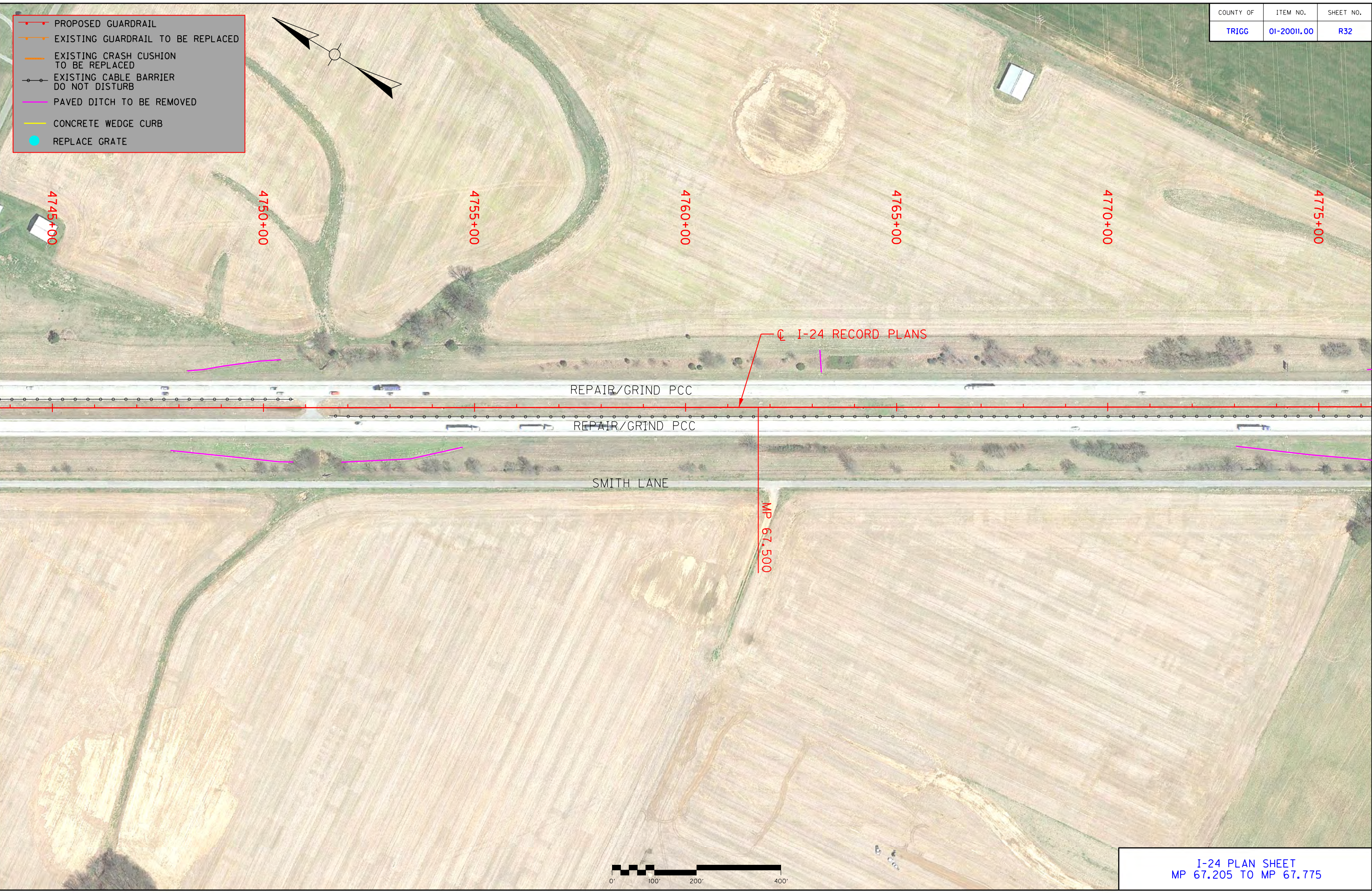
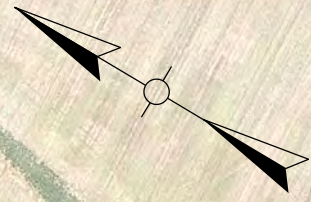


I-24 PLAN SHEET
MP 66.639 TO MP 67.205

Power InRoads v8.11.9.397 E-SHEET NAME: USER: USJH673619 DATE PLOTTED: September 18, 2019 FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420G - 1-24\CADD\PLAN SHEET\FULL DEPTH REPLACEMENT SHEETS\FD PLAN SHEET 30.DGN

COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R32

- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE



I-24 PLAN SHEET
MP 67.205 TO MP 67.775

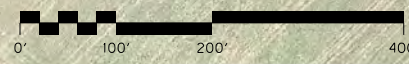
Power InRoads v8.11.9.397 E-SHEET NAME: DATE PLOTTED: September 18, 2019 USER: J:\JH673619 FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420C - I-24\CADD\PLAN SHEET\FULL DEPTH REPLACEMENT SHEETS\FD PLAN SHEET 31.DGN

COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R33

- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE



SMITH LANE



I-24 PLAN SHEET
MP 67.775 TO MP 68.340

PC 4776+55.70

4775+00

4780+00

4785+00

MP 68.000

4790+00

4795+00

4800+00

4805+00

PI 4793+65.37

I-24 RECORD PLANS

REPAIR/GRIND PCC

REPAIR/GRIND PCC

STEELE BRANCH

Power InRoads v8.11.9.397 E-SHEET NAME: USER: J:\IH673619 DATE PLOTTED: September 18, 2019 FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420G - I-24\CADD\PLAN SHEET\FULL DEPTH REPLACEMENT SHEETS\FD PLAN SHEET 32.DGN

COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R34

- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE



4805+00

4810+00

4815+00

4820+00

4825+00

4830+00

4835+00

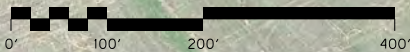
℄ I-24 RECORD PLANS

REPAIR/GRIND PCC

REPAIR/GRIND PCC

PT 4809+18.65

MP 68.500



I-24 PLAN SHEET
MP 68.340 TO MP 68.910

COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R35

- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE



4835+00

4840+00

MP 69.000

4845+00

4850+00

4855+00

PC 4855+18.57

4860+00

4865+00

☪ I-24 RECORD PLANS

REPAIR/GRIND PCC

REPAIR/GRIND PCC



I-24 PLAN SHEET
MP 68.910 TO MP 69.447

Power InRoads v8.11.9.397 E-SHEET NAME: USER: USJH673619 DATE PLOTTED: September 18, 2019 FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420G - 1-24\CADD\PLAN SHEET\FULL DEPTH REPLACEMENT SHEETS\FD PLAN SHEET 34.DGN

COUNTY OF	ITEM NO.	SHEET NO.
TRIGG	01-20011.00	R36



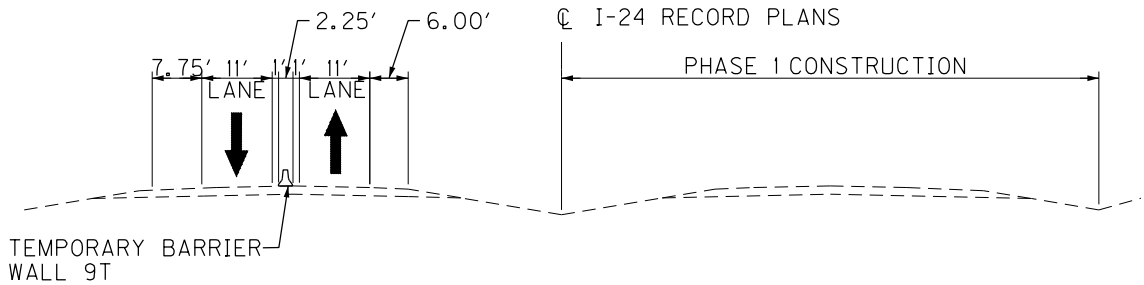
- PROPOSED GUARDRAIL
- EXISTING GUARDRAIL TO BE REPLACED
- EXISTING CRASH CUSHION TO BE REPLACED
- EXISTING CABLE BARRIER DO NOT DISTURB
- PAVED DITCH TO BE REMOVED
- CONCRETE WEDGE CURB
- REPLACE GRATE

I-24 PLAN SHEET
MP 69.447 TO MP 69.830

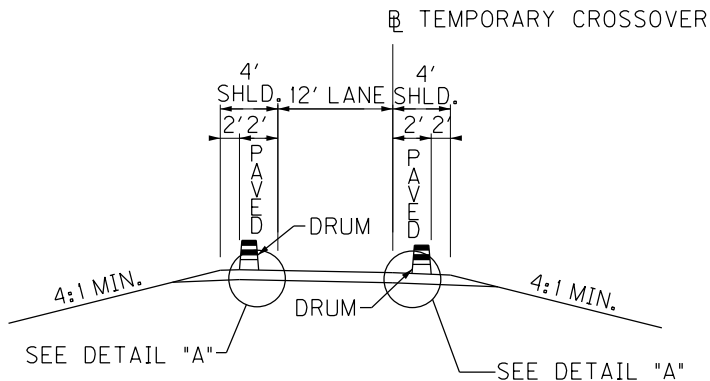
MAINTENANCE OF TRAFFIC

PHASE 1

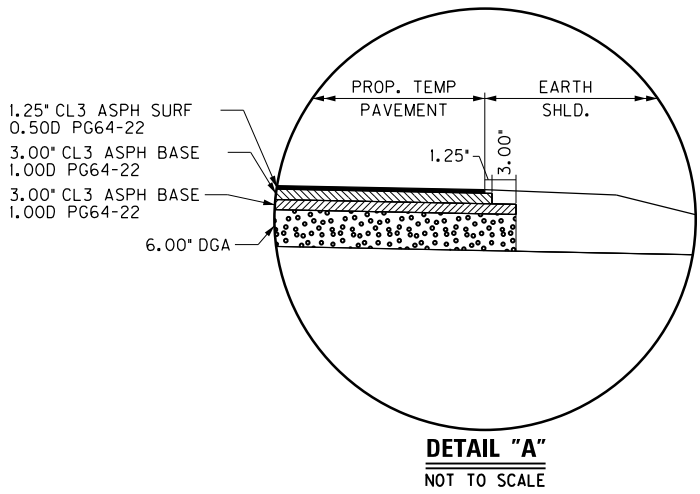
NOT TO SCALE



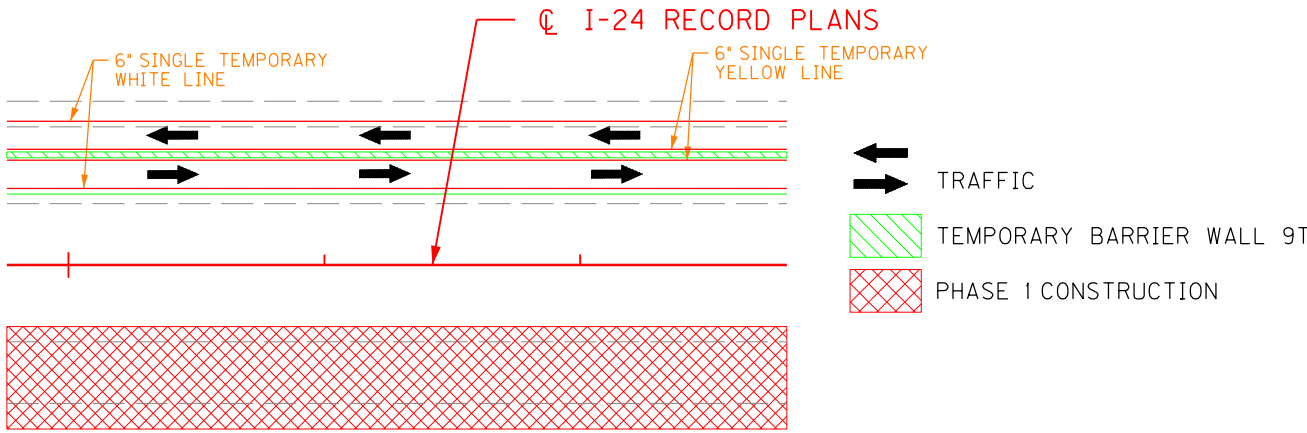
I-24 NORMAL CUT/FILL SECTION



NORMAL CUT/FILL SECTION
SINGLE LANE CROSSOVER
NOT TO SCALE

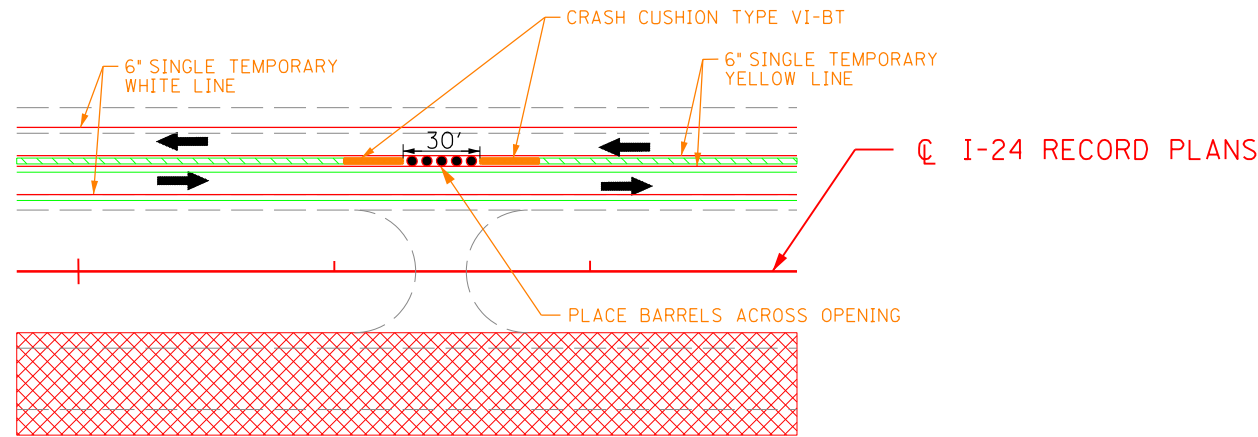


DETAIL "A"
NOT TO SCALE



PHASE 1

NOT TO SCALE



TURNAROUND DETAIL

NOT TO SCALE

MP 52.341, MP 54.842, MP 60.066, MP 62.394

NOT TO SCALE

MAINTENANCE OF TRAFFIC
MISCELLANEOUS DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
LYON	01-20011.00	R38

PHASE 1
REMOVE CABLE GUARDRAIL BARRIER SYSTEM
RT. STA. 3950+75 TO RT. STA. 3954+91,
REMOVE 416 LF.
ACTUAL LOCATION TO BE DETERMINED
BY THE ENGINEER.

PHASE 1
HIGH TENSION CABLE-ROPE ANCHOR
RT. STA. 3950+75 CONSTRUCT 1.
RT. STA. 3954+91 CONSTRUCT 1.
ACTUAL LOCATION TO BE DETERMINED
BY THE ENGINEER.

PHASE 3
HIGH TENSION CABLE-ROPE
RT. STA. 3950+75 TO RT. STA. 3954+91,
CONSTRUCT 416 LF.

PI STA=5+29.74
Δ= 4°48'42.86" LT
T=395.38'
L=790.29'
C= 0°36'31.97"
R=9410.00'
E=8.30'

PI STA=12+78.97
Δ= 4°16'23.47" RT
T=351.07'
L=701.81'
C= 0°36'31.97"
R=9410.00'
E=6.55'

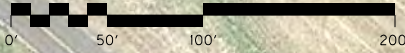
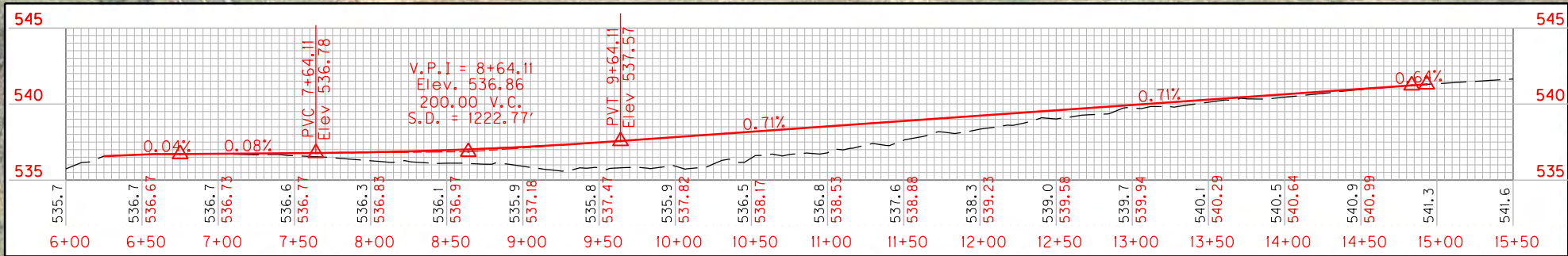
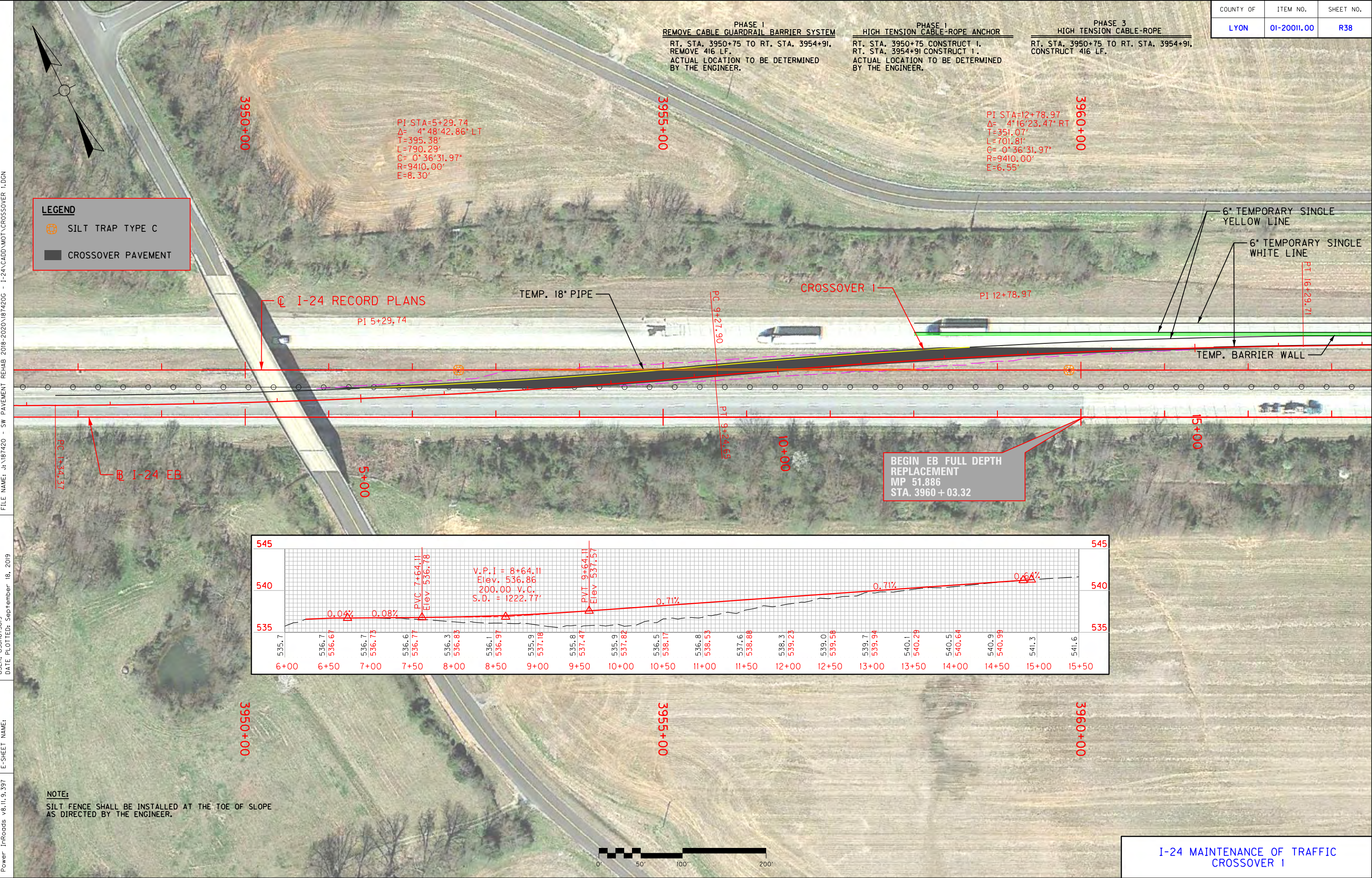
- LEGEND
- SILT TRAP TYPE C
 - CROSSOVER PAVEMENT

FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420C - 1-24\CADD\MOT\CROSSOVER 1.DGN

USER: USJH673619
DATE PLOTTED: September 18, 2019

E-SHEET NAME:

Power InRoads v8.11.9.397



I-24 MAINTENANCE OF TRAFFIC
CROSSOVER 1

COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL	01-20011.00	R39

- LEGEND**
- SILT TRAP TYPE C
 - CROSSOVER PAVEMENT

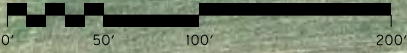
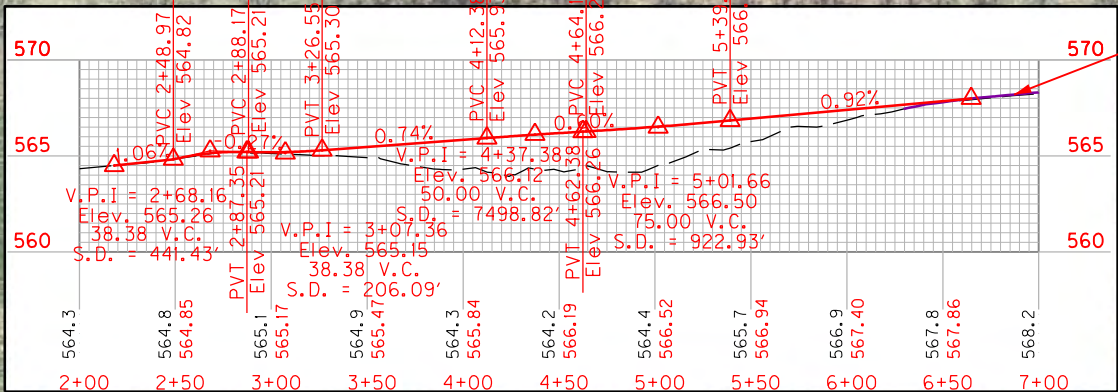
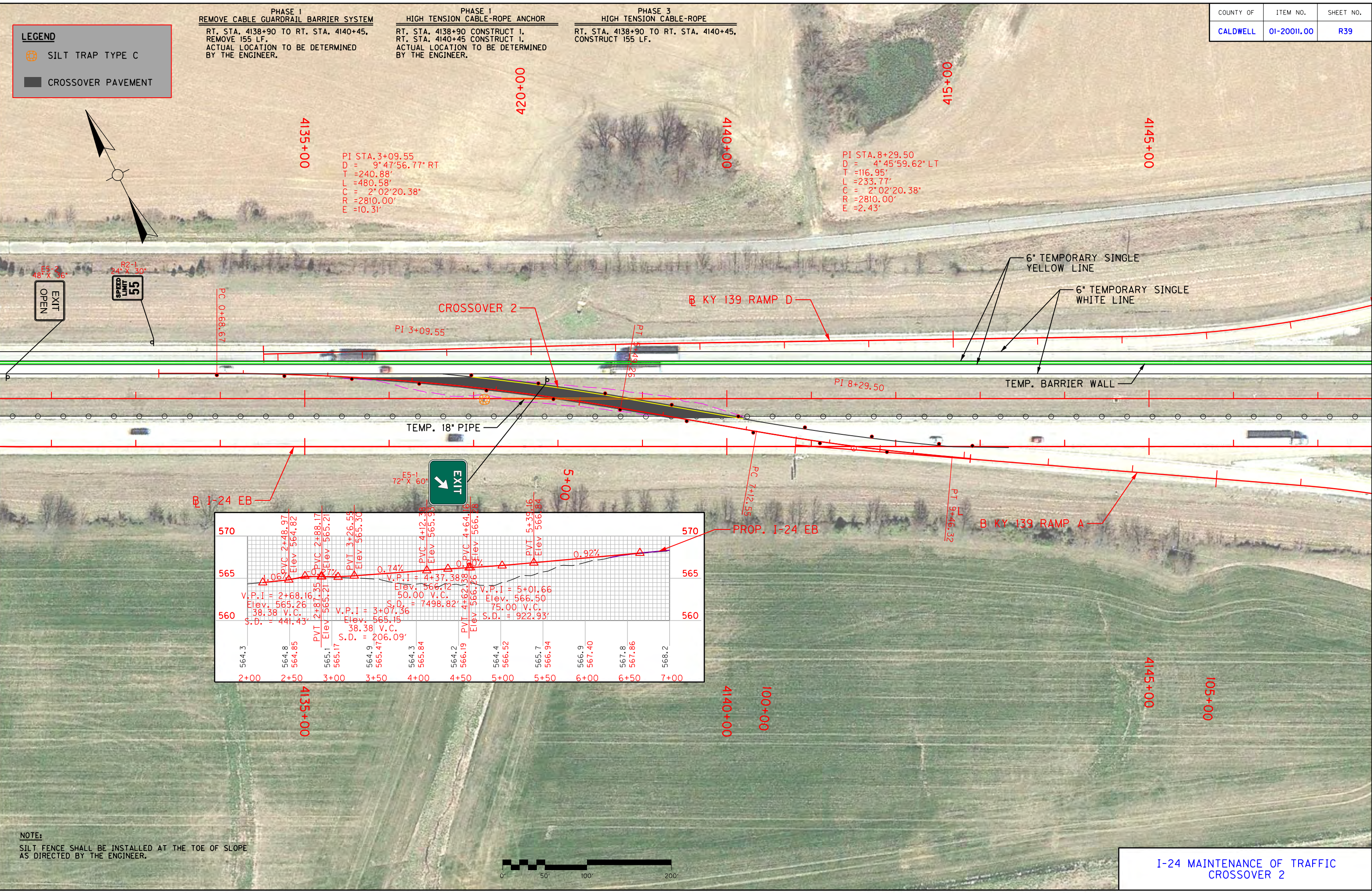
PHASE 1
REMOVE CABLE GUARDRAIL BARRIER SYSTEM
RT. STA. 4138+90 TO RT. STA. 4140+45,
REMOVE 155 LF.
ACTUAL LOCATION TO BE DETERMINED
BY THE ENGINEER.

PHASE 1
HIGH TENSION CABLE-ROPE ANCHOR
RT. STA. 4138+90 CONSTRUCT 1.
RT. STA. 4140+45 CONSTRUCT 1.
ACTUAL LOCATION TO BE DETERMINED
BY THE ENGINEER.

PHASE 3
HIGH TENSION CABLE-ROPE
RT. STA. 4138+90 TO RT. STA. 4140+45,
CONSTRUCT 155 LF.

PI STA. 3+09.55
D = 9°47'56.77" RT
T = 240.88'
L = 480.58'
C = 2°02'20.38"
R = 2810.00'
E = 10.31'

PI STA. 8+29.50
D = 4°45'59.62" LT
T = 116.95'
L = 233.77'
C = 2°02'20.38"
R = 2810.00'
E = 2.43'



I-24 MAINTENANCE OF TRAFFIC
CROSSOVER 2

Power InRoads v8.11.9.397 E-SHEET NAME: USER: USJH673619 DATE PLOTTED: September 18, 2019 FILE NAME: J:\187420 - SW PAVEMENT REHAB 2018-2020\187420C - 1-24\CADD\MOT\CROSSOVER 3.DGN

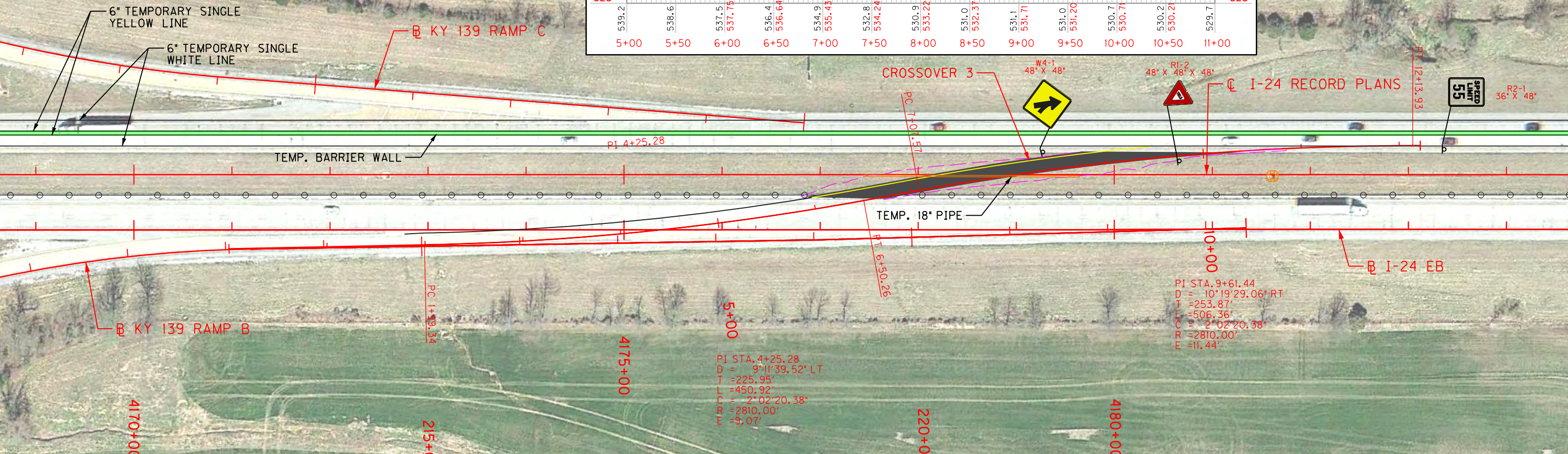
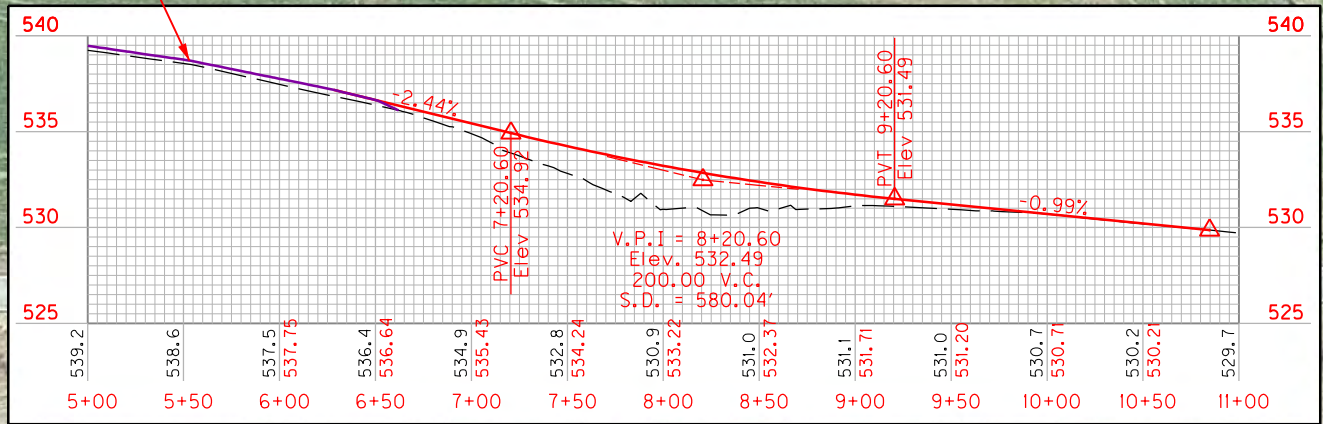
- LEGEND**
- SILT TRAP TYPE C
 - CROSSOVER PAVEMENT

PHASE 3
HIGH TENSION CABLE-ROPE
RT. STA. 4176+65 TO RT. STA. 4178+11,
CONSTRUCT 146 LF.

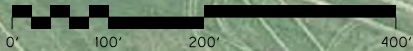
PHASE 1
REMOVE CABLE GUARDRAIL BARRIER SYSTEM
RT. STA. 4176+65 TO RT. STA. 4178+11,
REMOVE 146 LF.
ACTUAL LOCATION TO BE DETERMINED
BY THE ENGINEER.

PHASE 1
HIGH TENSION CABLE-ROPE ANCHOR
RT. STA. 4176+65 CONSTRUCT 1.
RT. STA. 4178+11 CONSTRUCT 1.
ACTUAL LOCATION TO BE DETERMINED
BY THE ENGINEER.

COUNTY OF	ITEM NO.	SHEET NO.
CALDWELL	01-20011.00	R40



NOTE:
SILT FENCE SHALL BE INSTALLED AT THE TOE OF SLOPE
AS DIRECTED BY THE ENGINEER.



I-24 MAINTENANCE OF TRAFFIC
CROSSOVER 3

