Form C-104
Rev. 02/2009

VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

☒ Conceptual Proposal ☐ Final Proposal Date 1/18/10

Contract ID 090821-602 Job No. J6U1028P & J6U1028Q

County St. Charles 364 Original Bid Cost $43,991,879.40

Contractor Fred Weber, Inc. By Brandon Bates

Designed By MODOT Phone (636) 978-9835

VECP# 11-03 (to be completed by C.O.) VECP ☒ or PDVECP ☐

1. **Description of existing requirements and proposed change(s). Advantages/Disadvantages**
   Existing: Construct Rte 364, Ramp 13, and 1:1 Geosynthetic Reinforced Soil Slope System (GRSS) according to Job J6U1028P plans. This requires a Duckett Creek Force Main to be relocated prior to construction.

   Proposed: Please see attached.

2. **Estimate of reduction in construction costs.** $155,000

3. **Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.**
   Reduction of future costs for maintaining the 45' tall 1:1 GRSS. Elimination of Construction Delays due to the Duckett Creek Force Main Relocation.

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

   _____
   (date)

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

   _____ _____
   (date) (effect)

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

   N/A
   (date and/or dates)

Additional Comments:
The attached spreadsheet provides a summary of the major quantity adjustments resulting from this change . A consideration, prompting the investigation into making these changes was the width of the planned ditch at the bottom of the GRSS. After initial calculations EFK Moen believes the width of the ditch can be narrowed significantly as shown in the attached cross-sections.

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

Comments: I discussed this proposal with MoDOT Project Manager Barry Bergman and D6 Geologist Rob Lauer and they both agree this is a good idea conceptually. A global stability analysis is needed to confirm that placing an MSE atop the 2:1 slope will work.Approval from Duckett Creek in regards to the location of their force main is needed as is confirmation that the utility savings estimate of $175K is accurate.Signed and sealed revised roadway plans and drainage calculations needed. I recommend approval.

Submitted By Resident Engineer — 1-19-2011 Date

Comments: We recommend approval of this Conceptual proposal. In addition to Mike's comments, the global stability analysis must be done for the entire 2:1 slope area. The contractor is responsible for any consequences including unanticipated impacts or delays.

☒ Approval Recommended
☐ Rejection Recommended

District Engineer by RAM — 1/21/11 Date

Comments:

Not Applicable

☐ Approval Recommended
☐ Rejection Recommended

Federal Highway Administration
Required for FHWA Full Oversight Projects — Date

Comments: Approval is contingent on satisfactory results achieved in the field and written acknowledgement by the contractor that they are responsible for the consequences including unanticipated impacts or delays.

☒ Approval
☐ Rejection

Digitally signed by Denis Glascock
DN: cn=Denis Glascock, c=US, o=MoDOT, ou=3H35, email=Denis.Glascock@modot.mo.gov
Date: 2011.01.24 11:08:07 -06'00'

State Construction and Materials Engineer — Date

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

Proposed: Fred Weber, Inc. proposes to eliminate the 1:1 Geosynthetic Reinforced Soil Slope System (GRSS) on the North Side of Rte 364 between Sta 598+00 and 603+00. FWI proposes to shift Ramp 13 150' to the East and narrow the width of the drainage ditch between NOR and Rte 364 as shown in the provided Cross-sections and Plan Sheet. This would permit FWI to construct a 2:1 rock slope and an MSE wall where necessary between Sta 598+25 and 599+50 and a 2:1 rock slope to Sta 603+00 as shown in the attached cross-sections. This would eliminate the need to relocate the Duckett Creek Sanitary 22" Force Main at a cost of $175,000. Preliminary drainage calculations completed by EFK Moen illustrate that the design changes would still meet specifications. Upon approval of this Conceptual Proposal, calculations and stamped drawings will be completed by EFK Moen.

Project Number	Line Item Number	Description	Units	Units Previously Provided For	Units To Be Constructed	Units Overrun, Underrun	Unit Price	Amount Of Overrun	Amount Of Underrun
J6U1028P	460	Furnishing Type 1 Rock Blanket	CY	916.00	3,686.00	2770.00	$23.00	$63,710.00	
	470	Placing Type 1 Rock Blanket	CY	916.00	3,686.00	2770.00	$30.00	$83,100.00	
	1380	Type H Erosion Blanket	SY	2,796.00	1,500.00	-1296.00	$4.60		-$5,961.60
	1390	Geosynthetic Reinforced Soil Slope System	SF	34,900.00	11,600.00	-23300.00	$10.00		-$233,000.00
		MSE Wall	SF	0.00	1,625.00	1625.00	$45.00	$73,125.00	
		Engineering Fee	LS	0.00	1.00	1.00	$40,000.00	$40,000.00	
		Duckett Creek Relocation	LS	1.00	0.00	-1.00	$175,000.00		-$175,000.00
								$259,935.00	-$413,961.60

Total VE Savings To Be Shared	$154,026.60
Total Savings - MoDot (50%)	$77,013.30
Total Savings - Fred Weber, Inc. (50%)	$77,013.30

NOTE:

ANY WORK UNLISTED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

ALL BEARINGS BASED ON EASTERN ZONE.

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATIONS MAY BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS. THE EXISTENCE OF WHICH ARE PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INVESTIGATE THE EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO.
NO DIRECT PAYMENT FOR OVERHAUL.

℄ NORTH OUTER ROAD
P.I. 71+45.51
P.C. 69+34.44
P.T. 73+56.09
Δ 2° 56' 43.5" (RT)
D 8° 08' 54.8"
L 421.65'
T 210.87'
R 8,202.08'

℄ RAMP 13
P.I. 11+59.75
P.C. 9+46.98
P.T. 13+71.80
Δ 8° 08' 48.7" (RT)
D 8° 08' 35.5"
L 424.82'
T 212.77'
R 3,000.00'

℄ SOUTH OUTER ROAD
P.I. 76+25.35
P.C. 73+95.68
P.T. 78+54.90
Δ 3° 12' 28.3" (LT)
D 0° 41' 54.8"
L 459.21'
T 229.72'
R 8,202.08'

℄ RAMP 14
P.I. 11+55.61
P.C. 9+46.29
P.T. 13+46.98
Δ 8° 10' 34.2" (LT)
D 1° 54' 35.5"
L 428.10'
T 214.32'
R 3,000.00'

GENERAL NOTES *Lot 8*
1. ALL R/W POINT STA. AND OFFSETS ARE BASED ON RTE. 364 ℄.
2. RAMP TRANSITIONS FOLLOW MoDOT STANDARD PLAN.
3. SEE SHEET 88-89 FOR TYPE E TD BARRIER ATTACHMENT.
4. SEE SHEET 82 FOR WALMART ENTRANCE DETAILS.

Missouri Certificate of Authority: 001578

EFK•Moen, LLC
Civil Engineering Planning
1253 Bellerive Way Dr. Ste. C
St. Louis, MO 63021
Phone 314-729-1199
Fax 314-729-1199

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

DESCRIPTION	DATE

DATE PREPARED	STATE
ROUTE 364	MO
DISTRICT 6	SHEET NO. 8
COUNTY ST. CHARLES	
JOB NO. J6U1028P	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

REV. 1/17/2011

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

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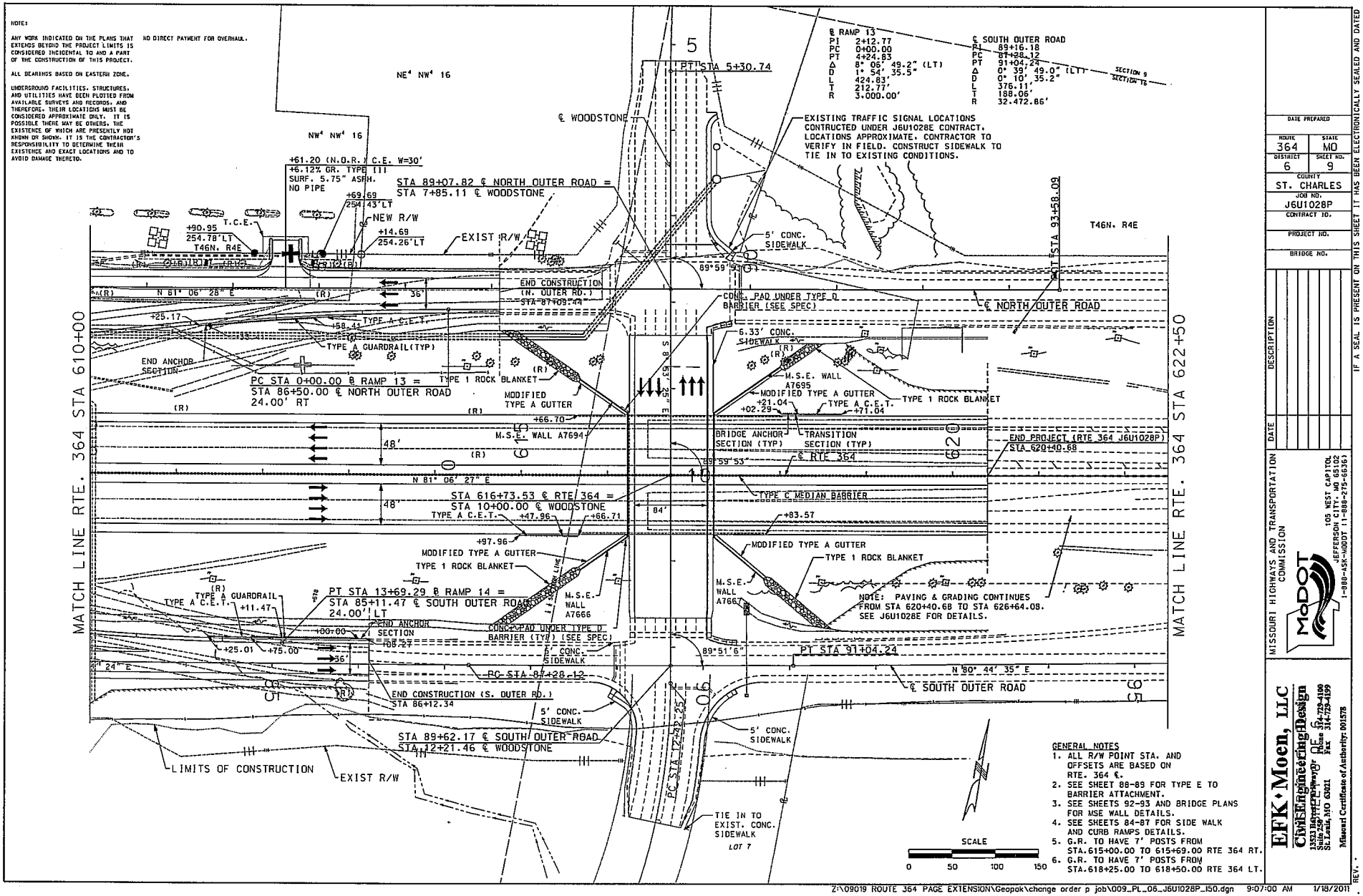
NOTE:
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.
ALL BEARINGS BASED ON EASTERN ZONE.
UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH ARE PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO.
NO DIRECT PAYMENT FOR OVERHAUL.
℄ RAMP 13
PI 2+12.77
PC 0+00.00
PT 4+24.83
Δ 8° 06' 49.2" (LT)
D 1° 54' 35.5"
L 424.83'
T 212.77'
R 3,000.00'
℄ SOUTH OUTER ROAD
PI 89+16.18
PC 87+28.12
PT 91+04.24
Δ 0° 39' 49.0" (LT)
D 0° 10' 35.2"
L 376.11'
T 188.06'
R 32,472.86'
EXISTING TRAFFIC SIGNAL LOCATIONS CONTRUCTED UNDER J6U1028E CONTRACT. LOCATIONS APPROXIMATE. CONTRACTOR TO VERIFY IN FIELD. CONSTRUCT SIDEWALK TO TIE IN TO EXISTING CONDITIONS.
MATCH LINE RTE. 364 STA 610+00
MATCH LINE RTE. 364 STA 622+50
℄ WOODSTONE
℄ NORTH OUTER ROAD
℄ SOUTH OUTER ROAD
℄ RTE 364
PT STA 5+30.74
PT STA 93+58.09
T46N. R4E
NE¼ NW¼ 16
NW¼ NW¼ 16
+61.20 (N.O.R.) C.E. W=30'
+6.12% GR. TYPE III
SURF. 5.75" ASPH.
NO PIPE
STA 89+07.82 ℄ NORTH OUTER ROAD = STA 7+85.11 ℄ WOODSTONE
+69.69 254.43'LT
NEW R/W
+14.69 254.26'LT
EXIST R/W
+90.95 254.78'LT
T.C.E.
5' CONC. SIDEWALK
END CONSTRUCTION (N. OUTER RD.) STA 87+09.44
CONC. PAD UNDER TYPE D BARRIER (SEE SPEC)
6.33' CONC. SIDEWALK
TYPE A C.E.T.
TYPE A GUARDRAIL(TYP)
END ANCHOR SECTION
PC STA 0+00.00 ℄ RAMP 13 = STA 86+50.00 ℄ NORTH OUTER ROAD 24.00' RT
TYPE 1 ROCK BLANKET
MODIFIED TYPE A GUTTER
M.S.E. WALL A7694
M.S.E. WALL A7695
BRIDGE ANCHOR SECTION (TYP)
TRANSITION SECTION (TYP)
END PROJECT (RTE 364 J6U1028P) STA 620+40.68
TYPE ℄ MEDIAN BARRIER
STA 616+73.53 ℄ RTE 364 = STA 10+00.00 ℄ WOODSTONE
PT STA 13+69.29 ℄ RAMP 14 = STA 85+11.47 ℄ SOUTH OUTER ROAD 24.00' LT
END ANCHOR SECTION
PC STA 87+28.12
END CONSTRUCTION (S. OUTER RD.) STA 86+12.34
STA 89+62.17 ℄ SOUTH OUTER ROAD = STA 12+21.46 ℄ WOODSTONE
LIMITS OF CONSTRUCTION
EXIST R/W
TIE IN TO EXIST. CONC. SIDEWALK
LOT 7
NOTE: PAVING & GRADING CONTINUES FROM STA 620+40.68 TO STA 626+64.08. SEE J6U1028E FOR DETAILS.
GENERAL NOTES
1. ALL R/W POINT STA. AND OFFSETS ARE BASED ON RTE. 364 ℄.
2. SEE SHEET 88-89 FOR TYPE E TO BARRIER ATTACHMENT.
3. SEE SHEETS 92-93 AND BRIDGE PLANS FOR MSE WALL DETAILS.
4. SEE SHEETS 84-87 FOR SIDE WALK AND CURB RAMPS DETAILS.
5. G.R. TO HAVE 7' POSTS FROM STA.615+00.00 TO 615+69.00 RTE 364 RT.
6. G.R. TO HAVE 7' POSTS FROM STA.618+25.00 TO 618+50.00 RTE 364 LT.
SCALE
0 50 100 150
DATE PREPARED
ROUTE 364
STATE MO
DISTRICT 6
SHEET NO. 9
COUNTY ST. CHARLES
JOB NO. J6U1028P
CONTRACT ID.
PROJECT NO.
BRIDGE NO.
DESCRIPTION
DATE
REV.
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
EFK·Moen, LLC
Civil Engineering Design
13523 Barrett Parkway Dr Suite 256 St. Louis, MO 63021
Phone 314-725-4100 Fax 314-725-4199
Missouri Certificate of Authority: 001578
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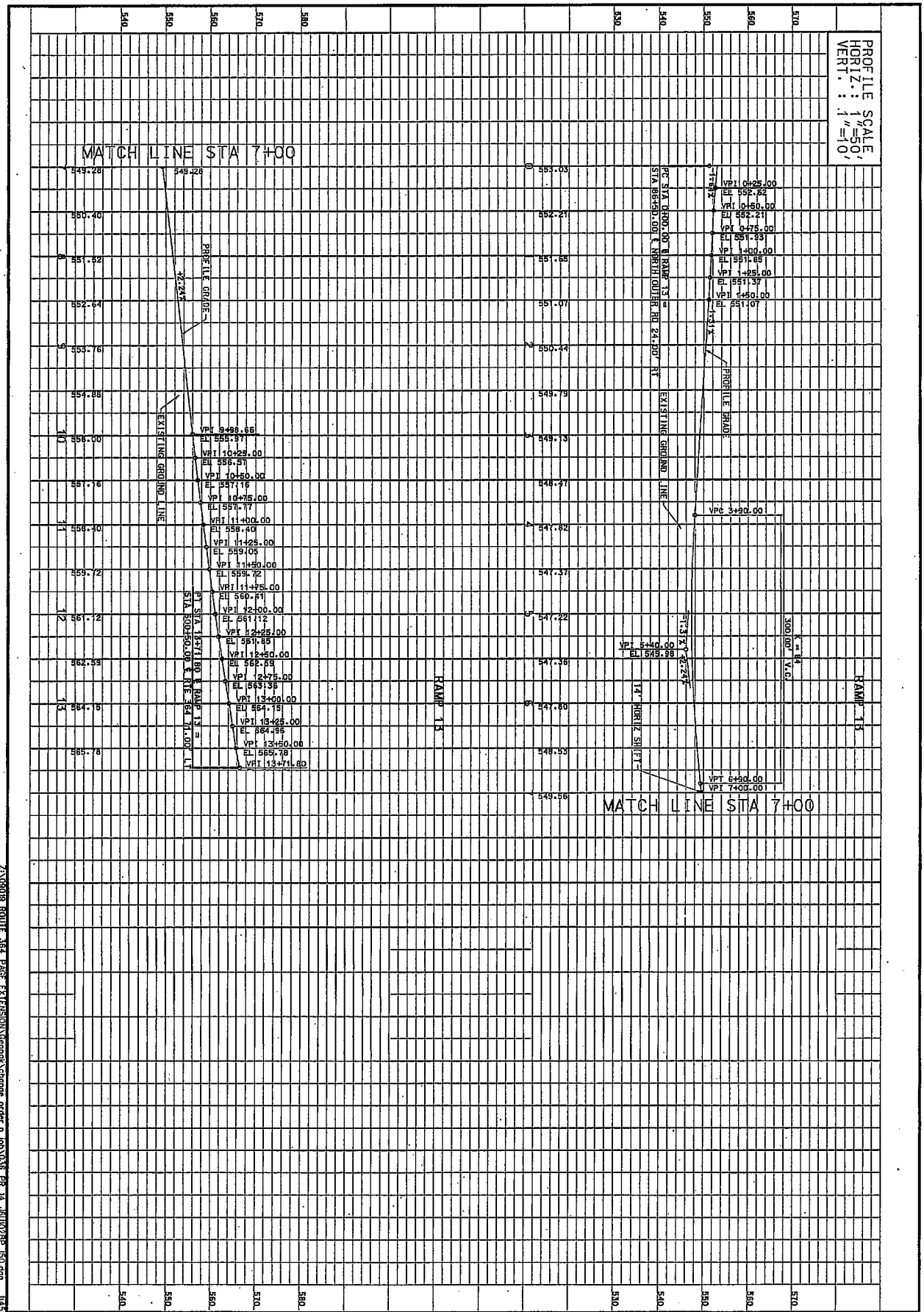

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RAMP 13 PROFILE
SHEET 14 OF 19

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

DATE	DESCRIPTION

BRIDGE NO.	
PROJECT NO.	
CONTRACT ID.	J6U1028B
JOB NO.	
COUNTY	ST. CHARLES
DISTRICT	6
SHEET NO.	36
ROUTE	364
STATE	MO
DATE PREPARED	1/10/2011

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January 10, 2011

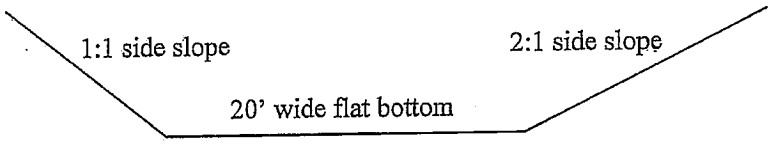
Conceptual Analysis of Ditch Capacity

Location: North side of 364, just east of Jungermann.

A conceptual study was performed to determine the impact of a proposed modification to the design ditch cross section.

Design Flow: The 50-year and 100-year flow as provided by CH2MHill.
50-year = 1,054 cfs, 100-year = 1,194 cfs

Ditch Geometry: A proposed 20' wide flat bottom ditch with side slopes of 1:1 and 2:1 as shown below.



Proposed Ditch Cross Section

A model was created using PondPack and run for both the 50 and 100-year design flows. A summary of the calculations is attached. The table below compares the preliminary results of the proposed cross section as compared to the calculations provided by CH2MHill for the design cross section:

Storm Event	Proposed Cross Section	Design Cross Section
50-year	537.4	535.73
100-year	538.6	536.49

Based on preliminary calculations, the proposed modification to the ditch cross section would cause about a 2 foot increase in water surface elevation in the ditch.

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

DATE	DESCRIPTION

DATE PREPARED 1/12/2011
ROUTE 364
STATE MO
DISTRICT 6
SHEET NO. 42
COUNTY ST CHARLES
JOB NO. J6U1028B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

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LEVEL POOL ROUTING SUMMARY

HYG Dir = C:\Documents and Settings\mwelton\My Documents\MWE Page stuff\
Inflow HYG file = NONE STORED - POND 10 IN 50
Outflow HYG file = NONE STORED - POND 10 OUT 50

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	528.40 ft
Starting Volume	=	0 cu.ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout=		.00 cfs
Time Increment	=	.0500 hrs

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	1054.00 cfs	at	.0500 hrs
Peak Outflow	=	1051.29 cfs	at	.3000 hrs
Peak Elevation	=	537.34 ft		
Peak Storage =		144450 cu.ft		

MASS BALANCE (cu.ft)

+ Initial Vol	=	0
+ HYG Vol IN	=	1897180
- Infiltration	=	0
- HYG Vol OUT	=	1897180
- Retained Vol	=	0
Unrouted Vol	=	0 cu.ft (.000% of Outflow Volume)

WARNING: Inflow hydrograph truncated on left side.

LEVEL POOL ROUTING SUMMARY

HYG Dir = C:\Documents and Settings\mwelton\My Documents\MWE Page stuff\
Inflow HYG file = NONE STORED - POND 10 IN 100
Outflow HYG file = NONE STORED - POND 10 OUT 100

Pond Node Data = POND 10
Pond Volume Data = POND 10
Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

Starting WS Elev	=	528.40 ft
Starting Volume	=	0 cu.ft
Starting Outflow	=	.00 cfs
Starting Infiltr.	=	.00 cfs
Starting Total Qout	=	.00 cfs
Time Increment	=	.0500 hrs

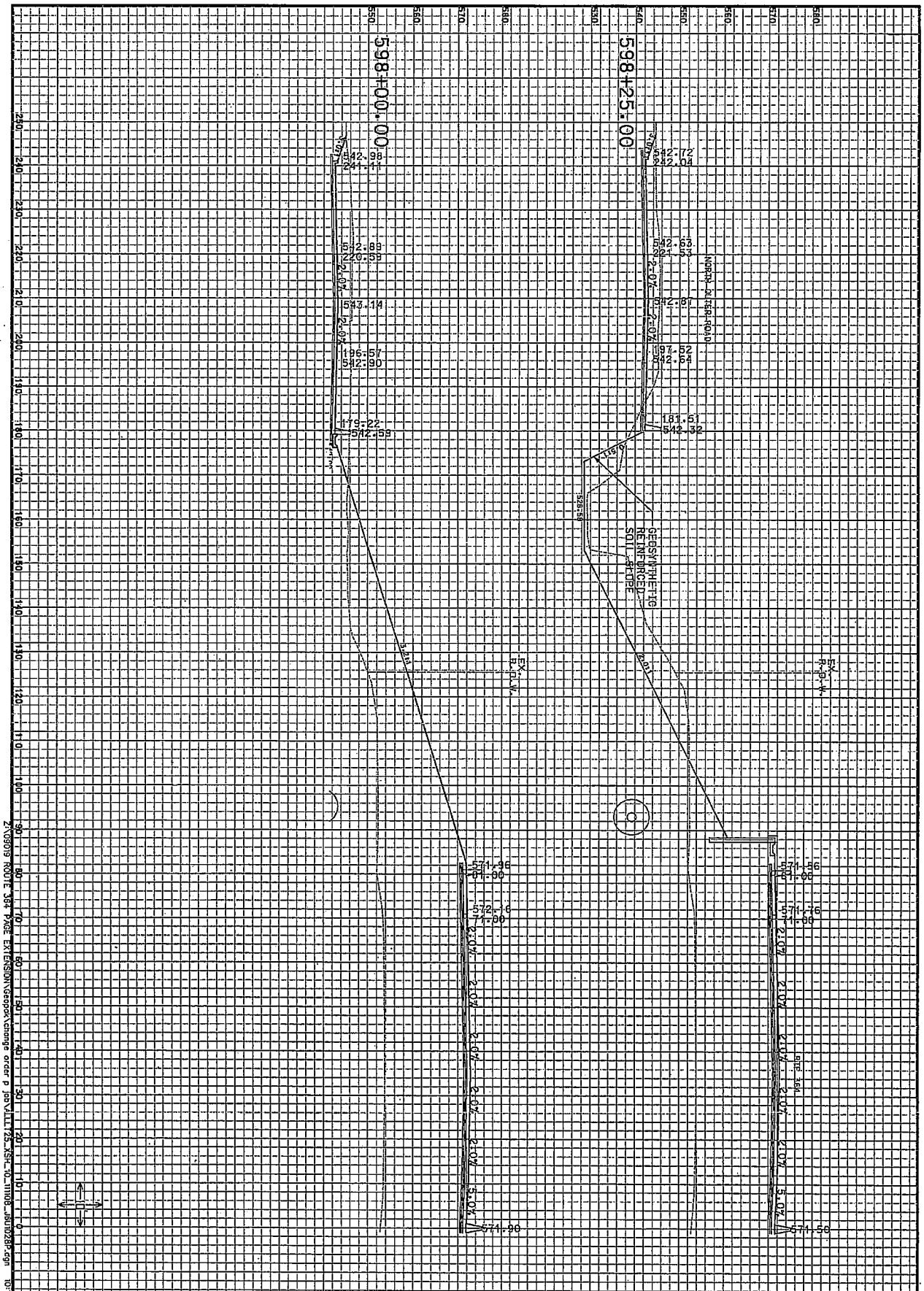
INFLOW/OUTFLOW HYDROGRAPH SUMMARY

Peak Inflow	=	1194.00 cfs	at	.0500 hrs
Peak Outflow	=	1186.77 cfs	at	.3000 hrs
Peak Elevation	=	538.57 ft		
Peak Storage	=	181007 cu.ft		

MASS BALANCE (cu.ft)

+ Initial Vol	=	0
+ HYG Vol IN	=	2149178
- Infiltration	=	0
- HYG Vol OUT	=	2149178
- Retained Vol	=	0
Unrouted Vol	= -	cu.ft (.000% of Inflow Volume)

WARNING: Inflow hydrograph truncated on left side.



CROSS SECTIONS
ROUTE 364 LEFT
SHEET 40 OF 75

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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DATE	DESCRIPTION

BRIDGE NO.

PROJECT NO.

CONTRACT ID.

JOB NO. J6U1028B

COUNTY ST CHARLES

DISTRICT 6

SHEET NO. 40

ROUTE 364

STATE MO

DATE PREPARED 1/11/2011

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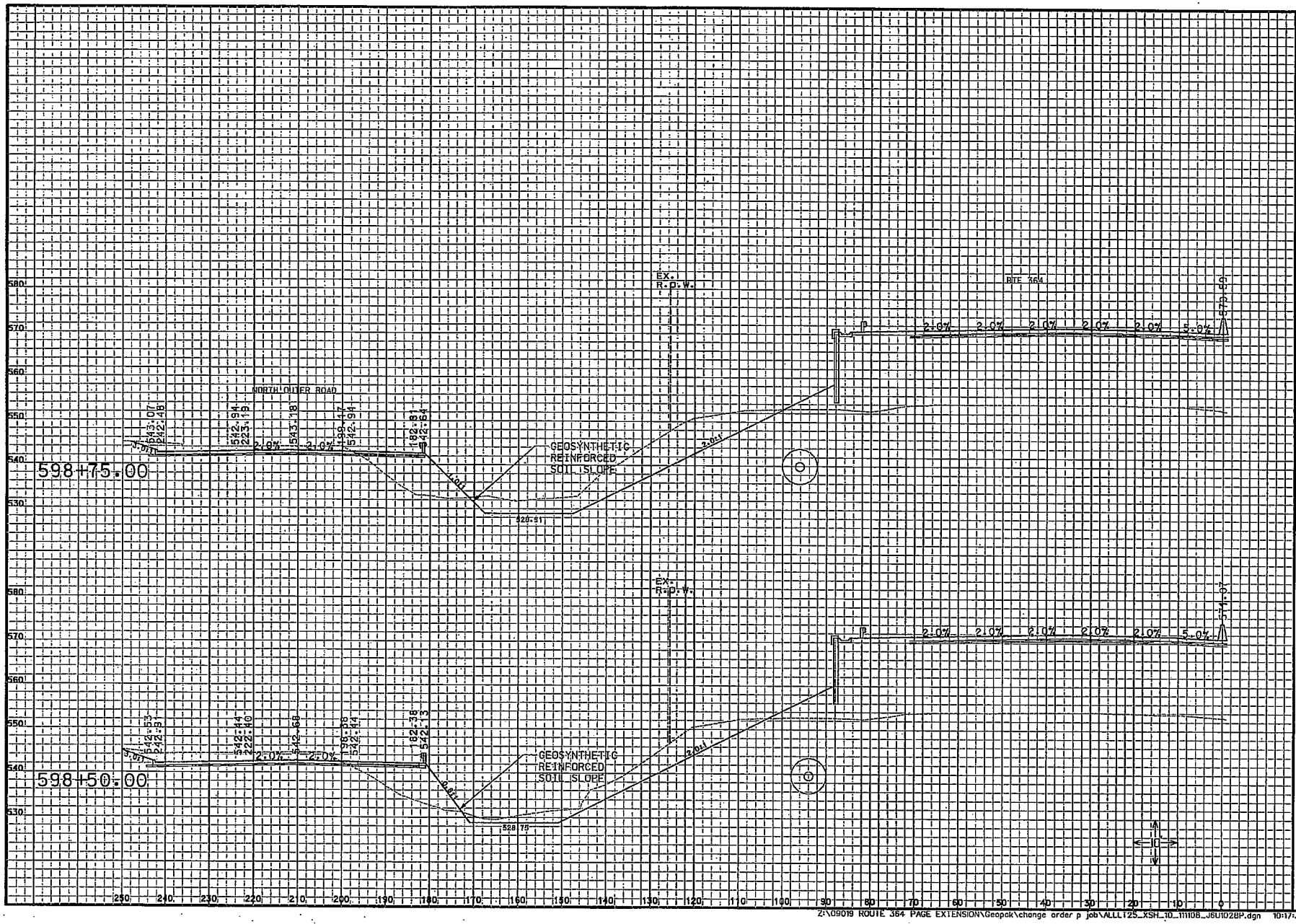

DATE PREPARED
1/11/2011

ROUTE	STATE
364	MO
DISTRICT	SHEET NO.
6	41

COUNTY
ST CHARLES

JOB NO.
J6U1028B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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CROSS SECTIONS
ROUTE 364 LEFT
SHEET 41 OF 75

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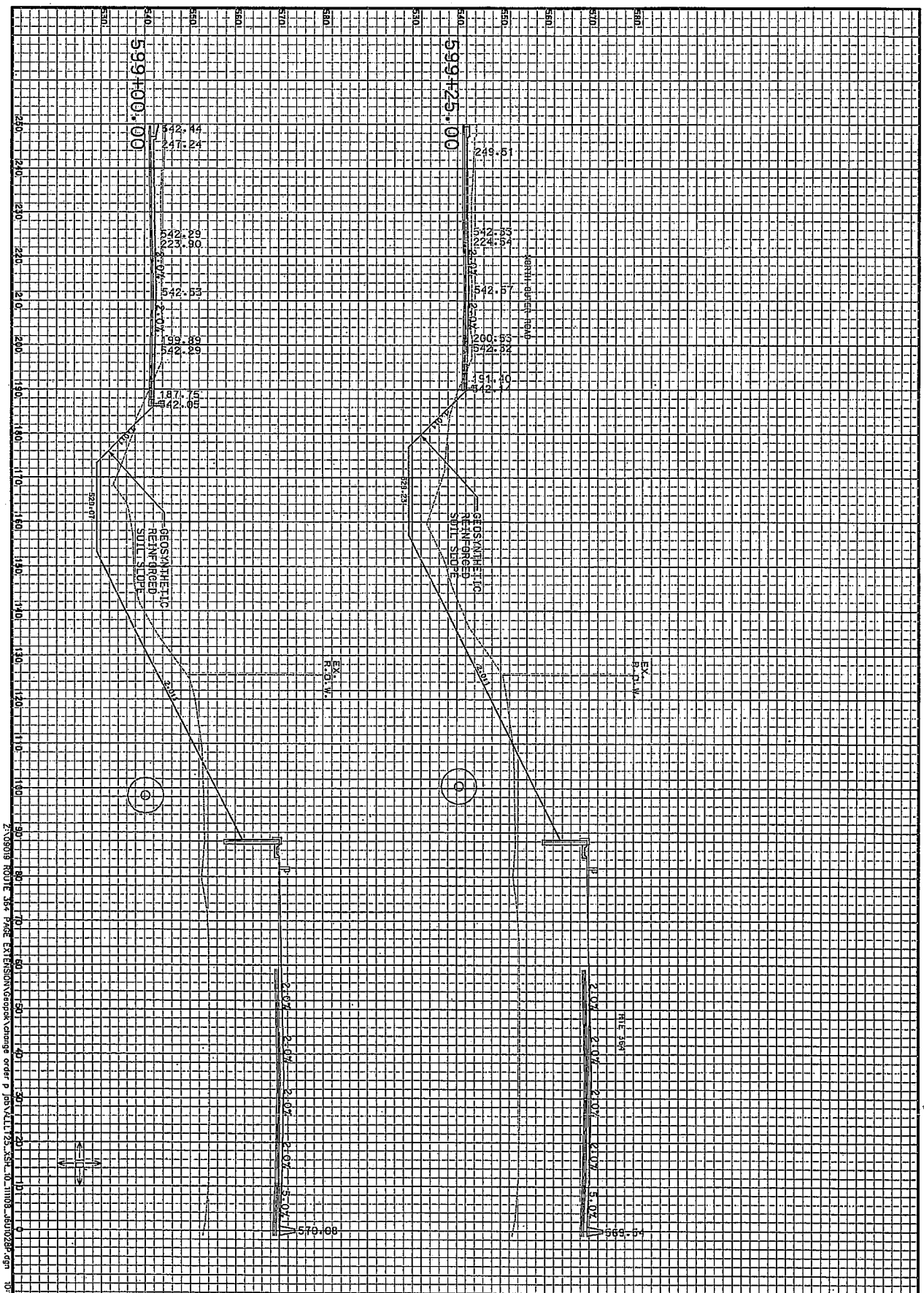

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 42 OF 75

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

DATE	DESCRIPTION

BRIDGE NO.

PROJECT NO.

CONTRACT ID.

JOB NO. J6U1028B

COUNTY ST CHARLES

DISTRICT 6

ROUTE 364

SHEET NO. 42

STATE MO

DATE PREPARED 1/11/2011

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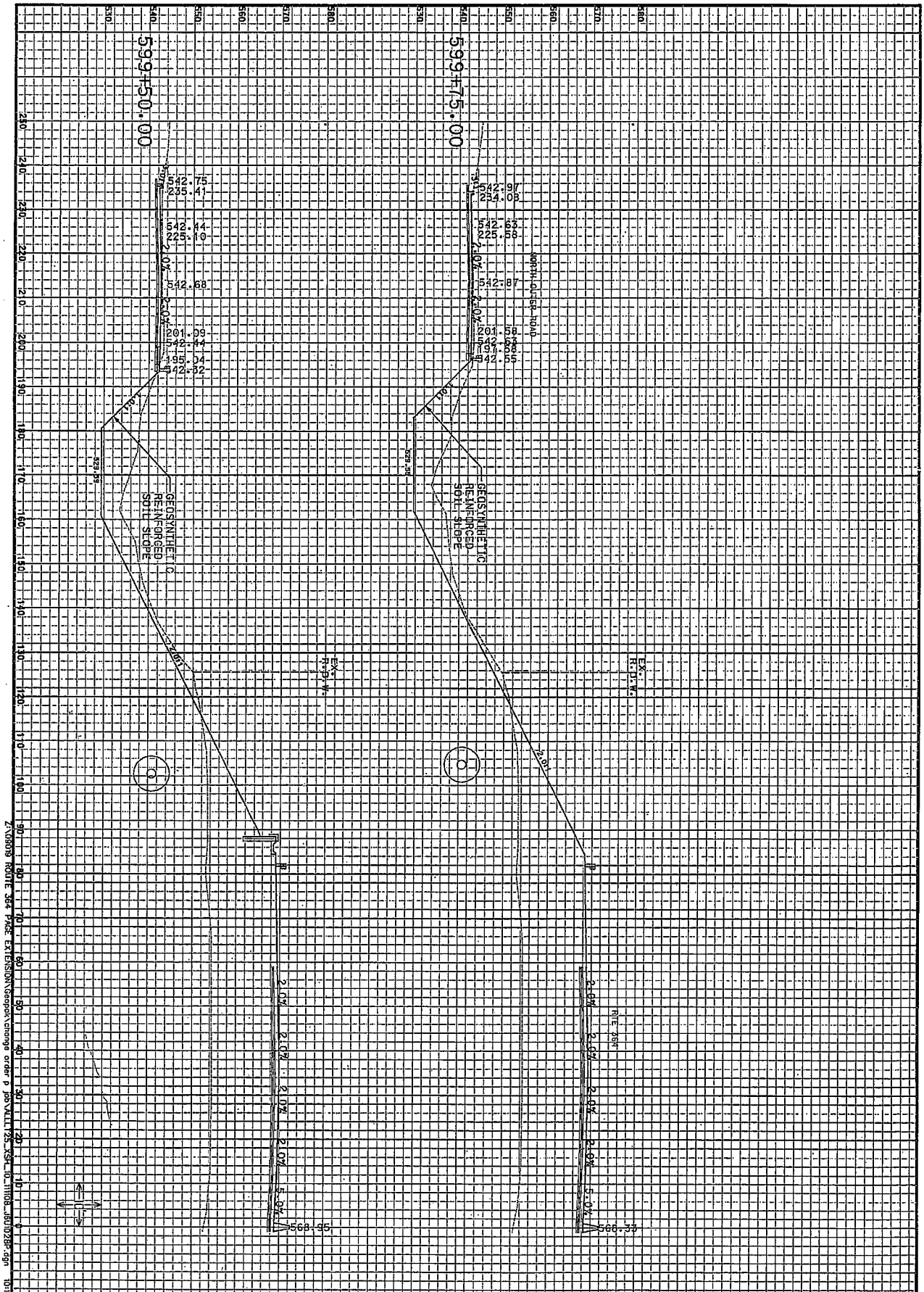

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 43 OF 75

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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DATE	DESCRIPTION

BRIDGE NO.
PROJECT NO.
CONTRACT ID.
JOB NO. J6U1028B
COUNTY ST CHARLES
DISTRICT 6
SHEET NO. 43
ROUTE 364
STATE MO
DATE PREPARED 1/11/2011

REV.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

DATE | DESCRIPTION

DATE PREPARED 1/11/2011
ROUTE 364 | STATE MO
DISTRICT 6 | SHEET NO. 44
COUNTY ST CHARLES
JOB NO. J6U1028B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 44 OF 75

REV.

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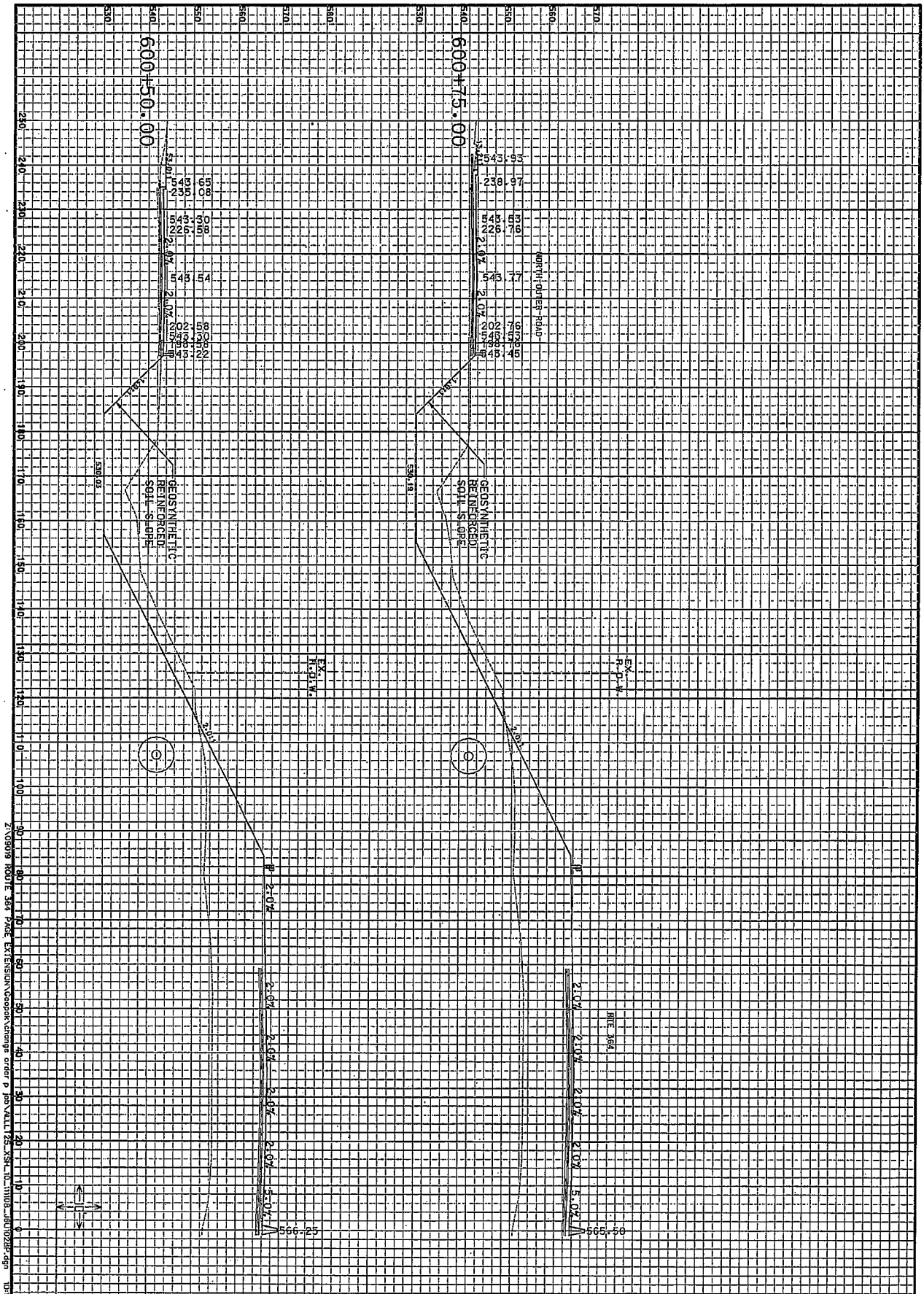

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 45 OF 75

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

DATE	DESCRIPTION

BRIDGE NO.

PROJECT NO.

CONTRACT ID.

JOB NO. J6U1028B

COUNTY ST CHARLES

DISTRICT 6

SHEET NO. 45

ROUTE 364

STATE MO

DATE PREPARED 1/11/2011

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

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DATE PREPARED	
1/11/2011	
ROUTE 364	STATE MO
DISTRICT 6	SHEET NO. 46
COUNTY ST CHARLES	
JOB NO. J6U1028B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 46 OF 75

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

REV.

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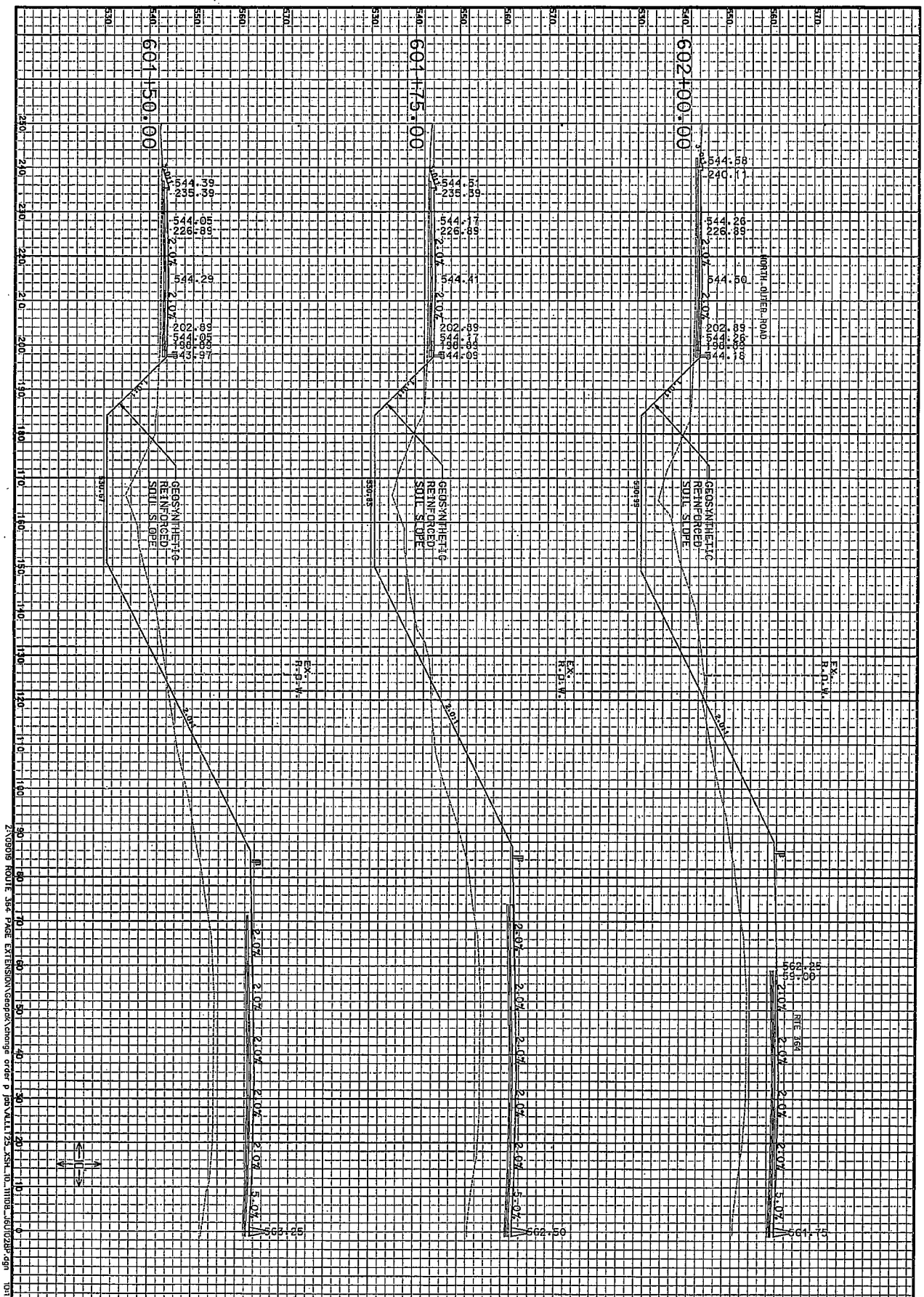

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 47 OF 75

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

DATE	DESCRIPTION

BRIDGE NO.
PROJECT NO.
CONTRACT ID.
JOB NO. J6U102BB
COUNTY ST CHARLES
DISTRICT 6
ROUTE 364
SHEET NO. 47
STATE MO
DATE PREPARED 1/11/2011

REV.

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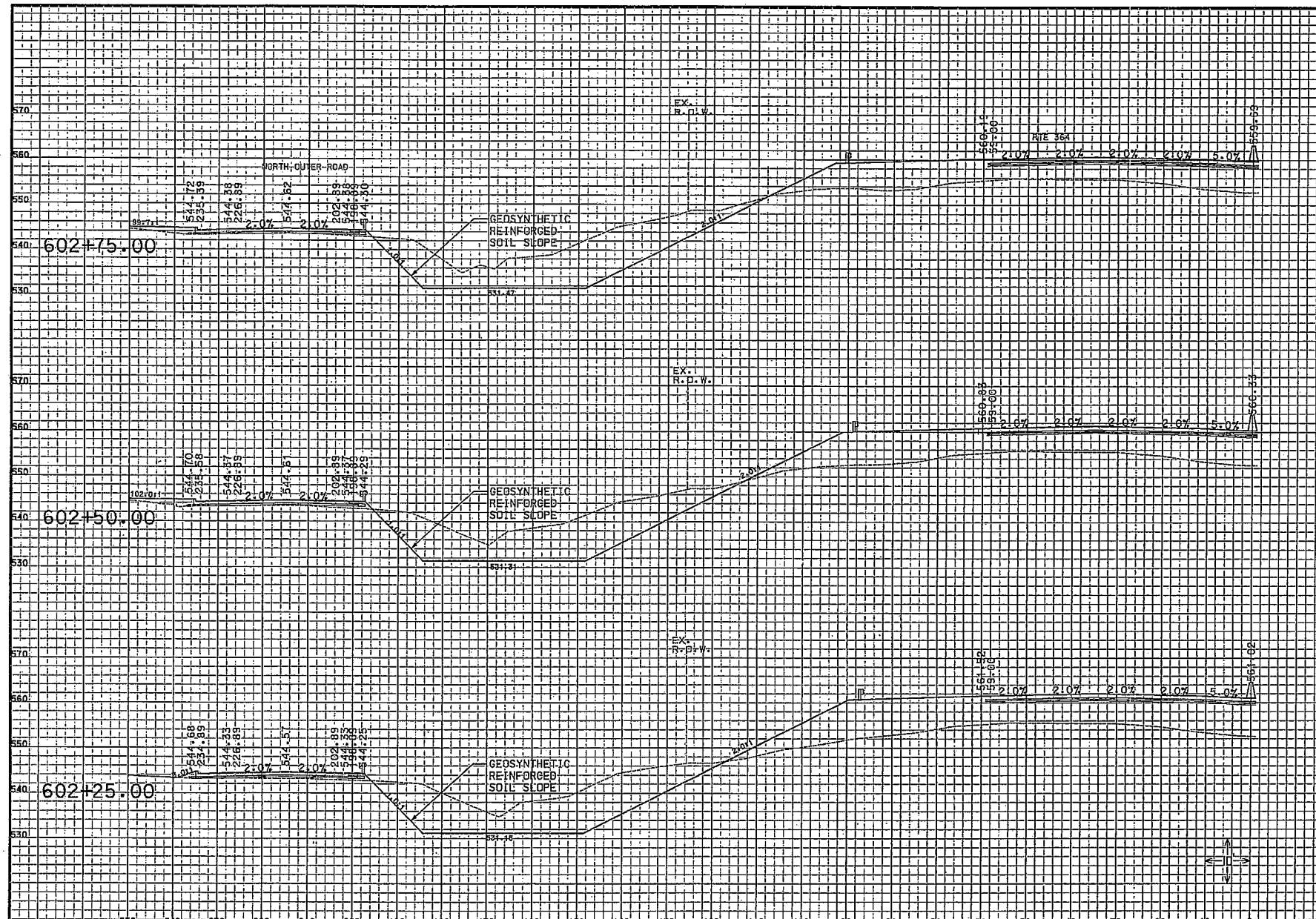

DATE PREPARED	1/11/2011
ROUTE	364
STATE	MO
DISTRICT	6
SHEET NO.	48
COUNTY	ST CHARLES
JOB NO.	J6U1028B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE | DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 48 OF 75

REV.

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REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MoDOT

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 49 OF 75

DATE	DESCRIPTION

DATE PREPARED	STATE
1/11/2011	MO
ROUTE 364	SHEET NO. 49
DISTRICT 6	COUNTY STE CHARLES
JOB NO. J6U1028B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

1/11/2011

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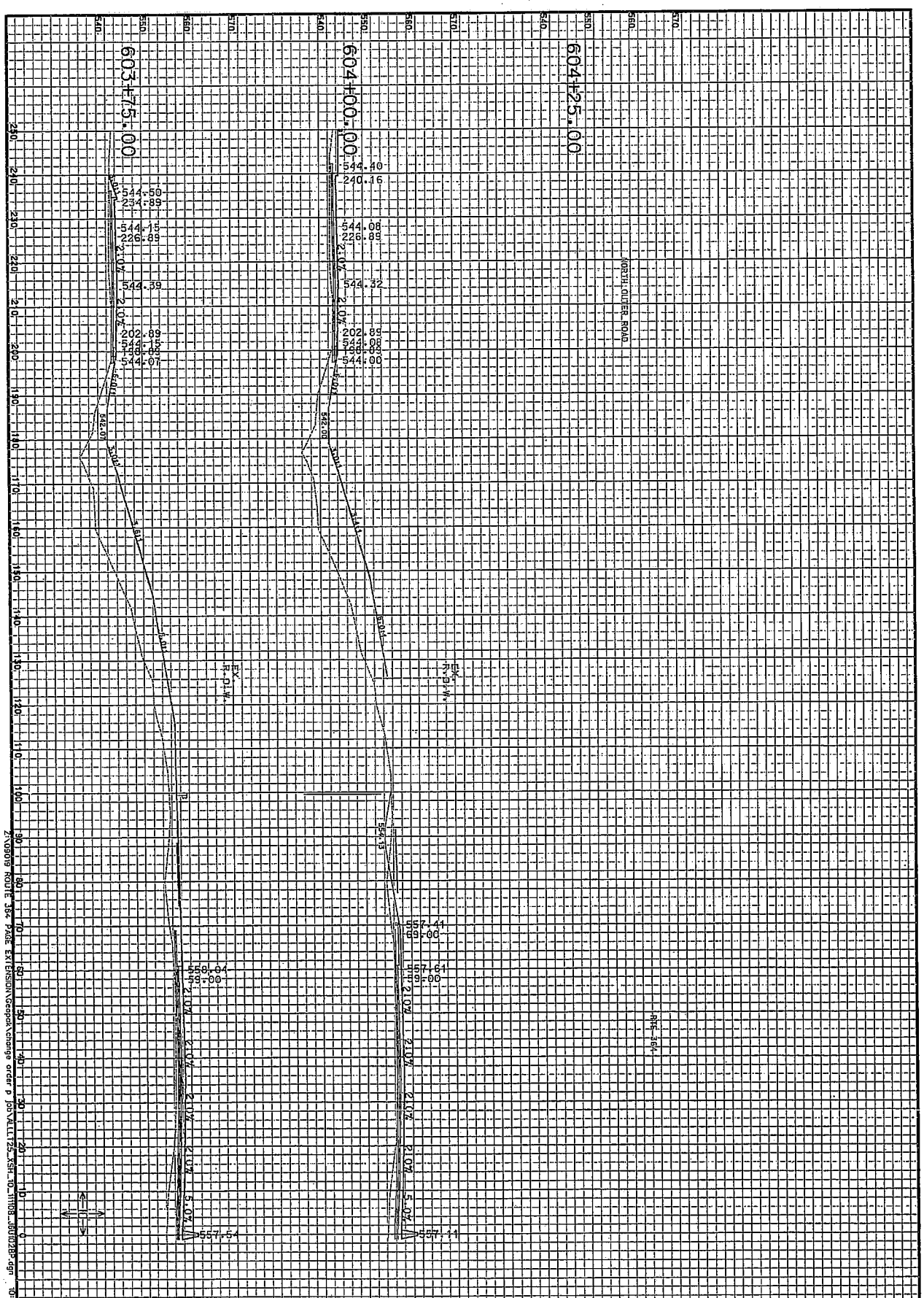

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 50 OF 75

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

DATE	DESCRIPTION

BRIDGE NO.

PROJECT NO.

CONTRACT ID.

JOB NO. J6U1028B

COUNTY ST CHARLES

DISTRICT 6

ROUTE 364

SHEET NO. 50

STATE MO

DATE PREPARED 1/11/2011

REV.

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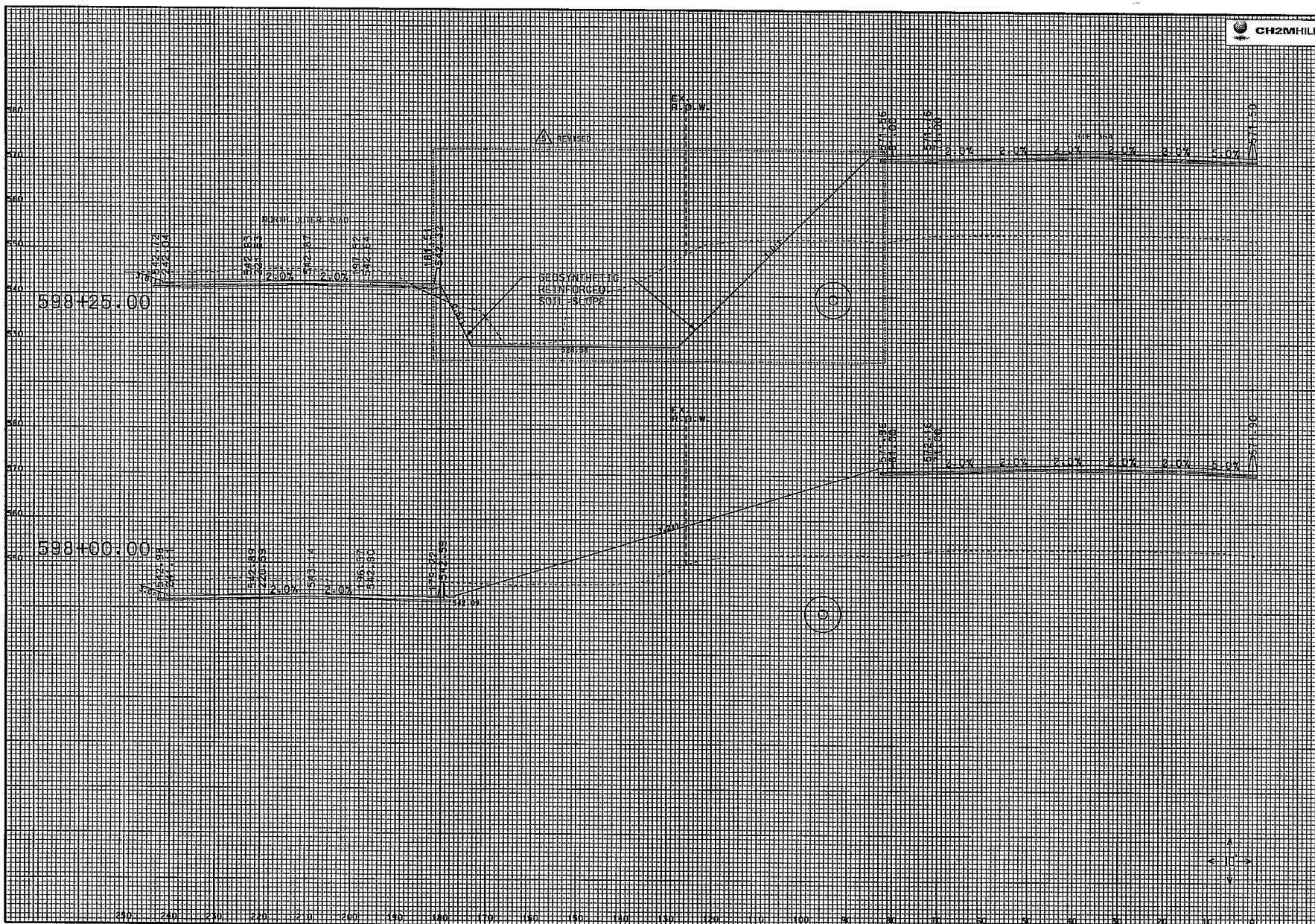

STATE OF MISSOURI
TIMOTHY F. NITTLER
NUMBER E-27149
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	
3-11-10	
ROUTE 364	STATE MO
DISTRICT 6	SHEET NO. 40
COUNTY ST CHARLES	
JOB NO. J6U1028P	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION
3-11-10	REVISION 5

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 40 OF 75

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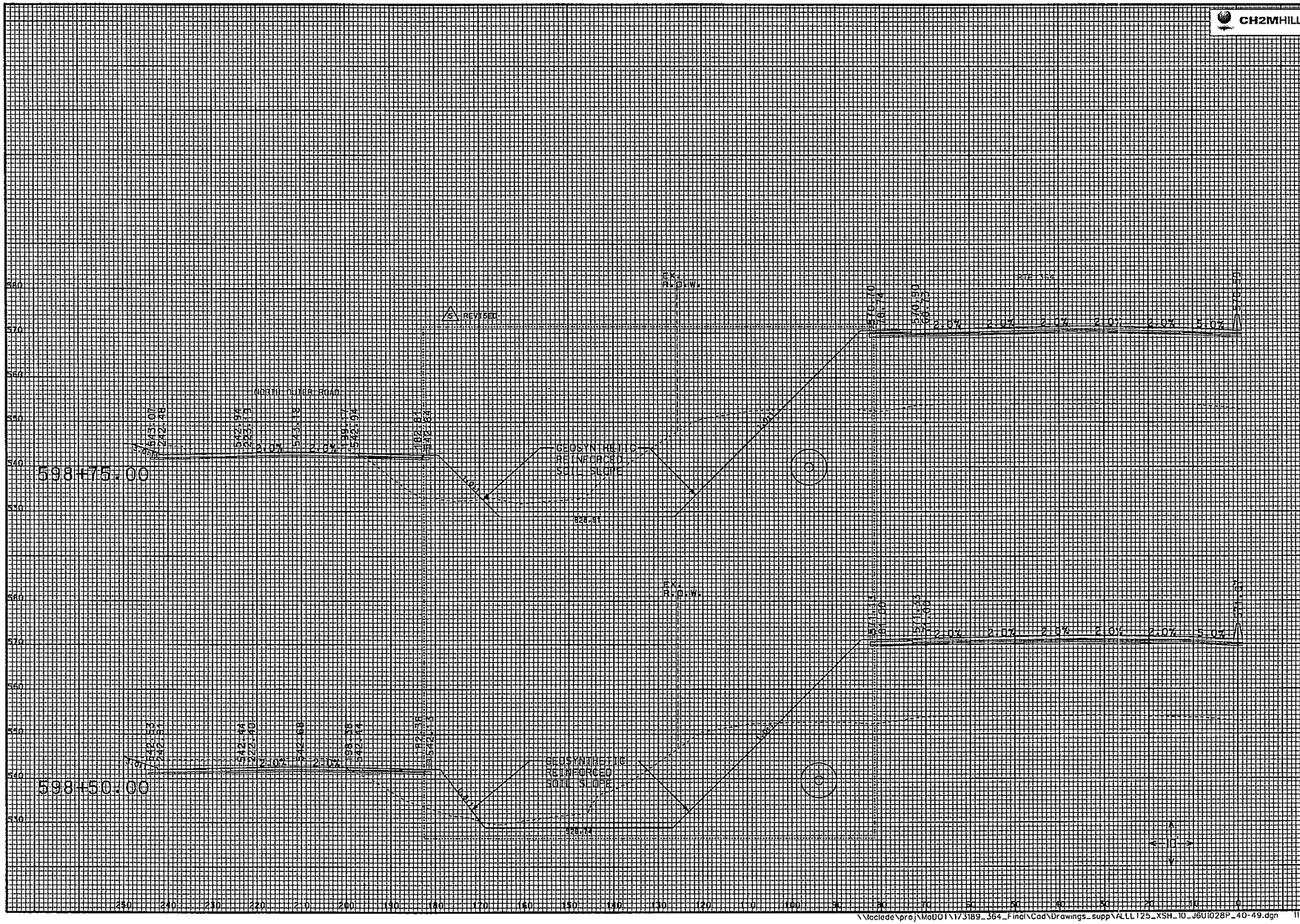

STATE OF MISSOURI
TIMOTHY F. NITTLER
NUMBER E-27149
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	
3-11-10	
ROUTE 364	STATE MO
DISTRICT 6	SHEET NO. 41
COUNTY ST CHARLES	
JOB NO. J6U1028P	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION
3-11-10	REVISION 5

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CROSS SECTIONS
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SHEET 41 OF 75

REV.

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CROSS SECTIONS
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SHEET 42 OF 75
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
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DATE
DESCRIPTION
3-11-10
REVISION 5
DATE PREPARED 3-11-10
ROUTE 364
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DISTRICT 6
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COUNTY ST CHARLES
JOB NO. J6U1028P
CONTRACT ID.
PROJECT NO.
BRIDGE NO.
TIMOTHY C. MILLER NUMBER E-27748
STATE OF MISSOURI PROFESSIONAL ENGINEER
REGISTERED PROFESSIONAL
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	DATE	DESCRIPTION
MoDOT 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	3-11-10	REVISION 5

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 43 OF 75

DATE PREPARED 3-11-10
ROUTE 364 | STATE MO
DISTRICT 6 | SHEET NO. 43
COUNTY ST CHARLES
JOB NO. J6U1028P
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

STATE OF MISSOURI TIMOTHY F. NITTLER NUMBER E-27149 REGISTERED PROFESSIONAL ENGINEER

CH2MHILL

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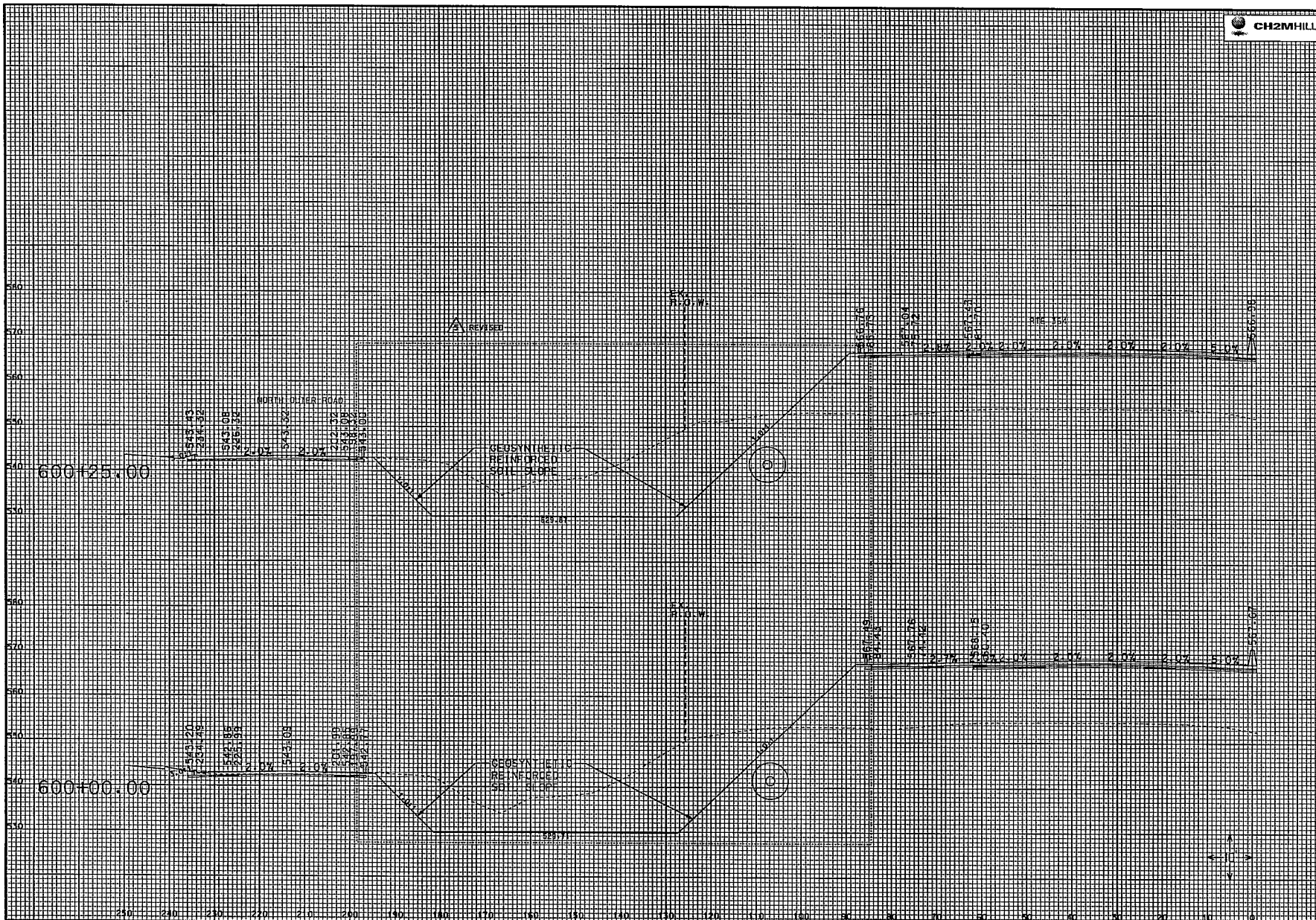

CH2MHILL

STATE OF MISSOURI
TIMOTHY F. NITTLER
NUMBER E-27149
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	3-11-10
ROUTE	364
STATE	MO
DISTRICT	6
SHEET NO.	44
COUNTY	ST CHARLES
JOB NO.	J6U1028P
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION
3-11-10	REVISION 5

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 44 OF 75

REV.

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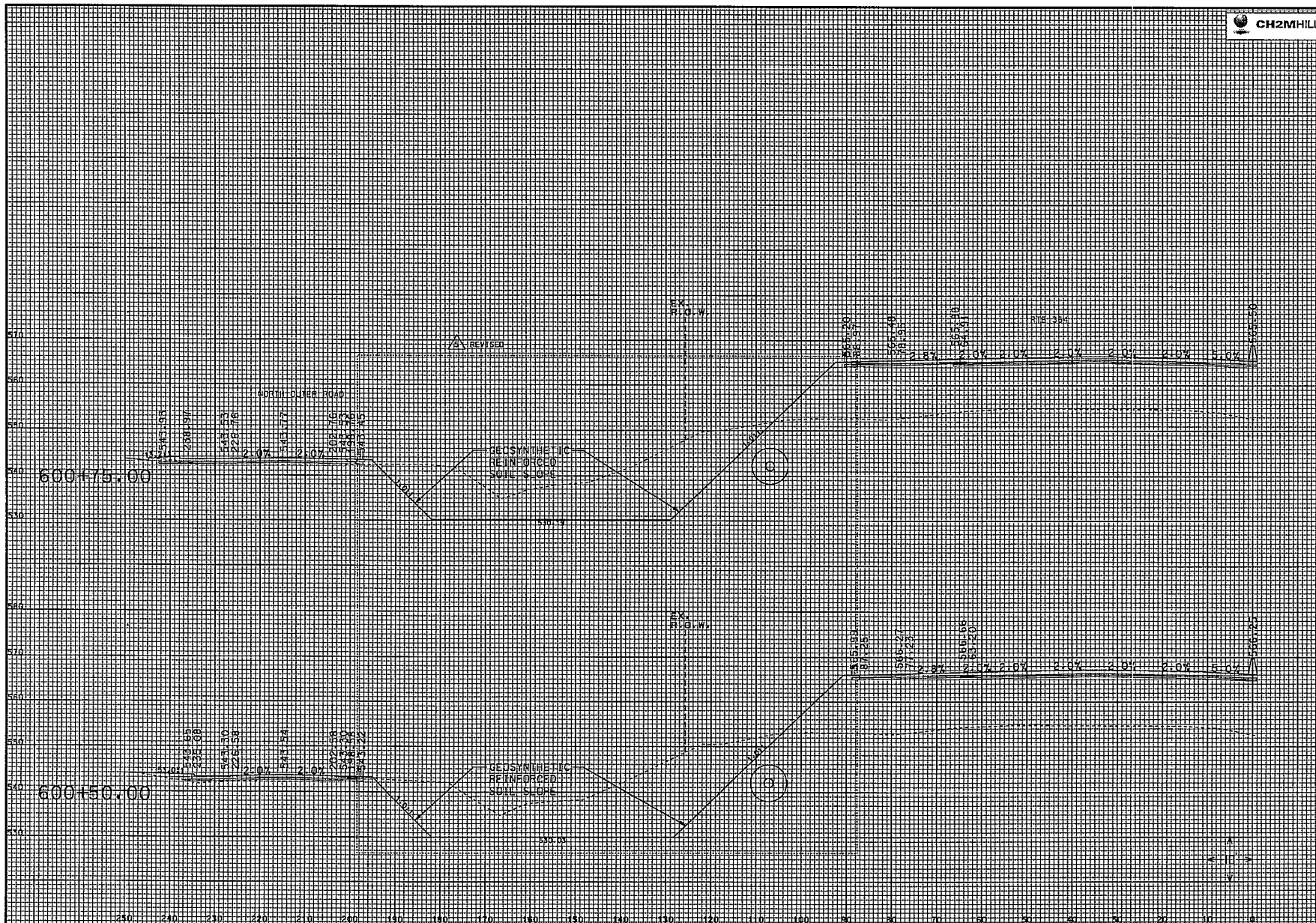

STATE OF MISSOURI
TIMOTHY F. NITTLER
NUMBER E-27149
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	
3-11-10	
ROUTE 364	STATE MO
DISTRICT 6	SHEET NO. 45
COUNTY ST CHARLES	
JOB NO. J6U1028P	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION
3-11-10	REVISION 5

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 45 OF 75

REV.

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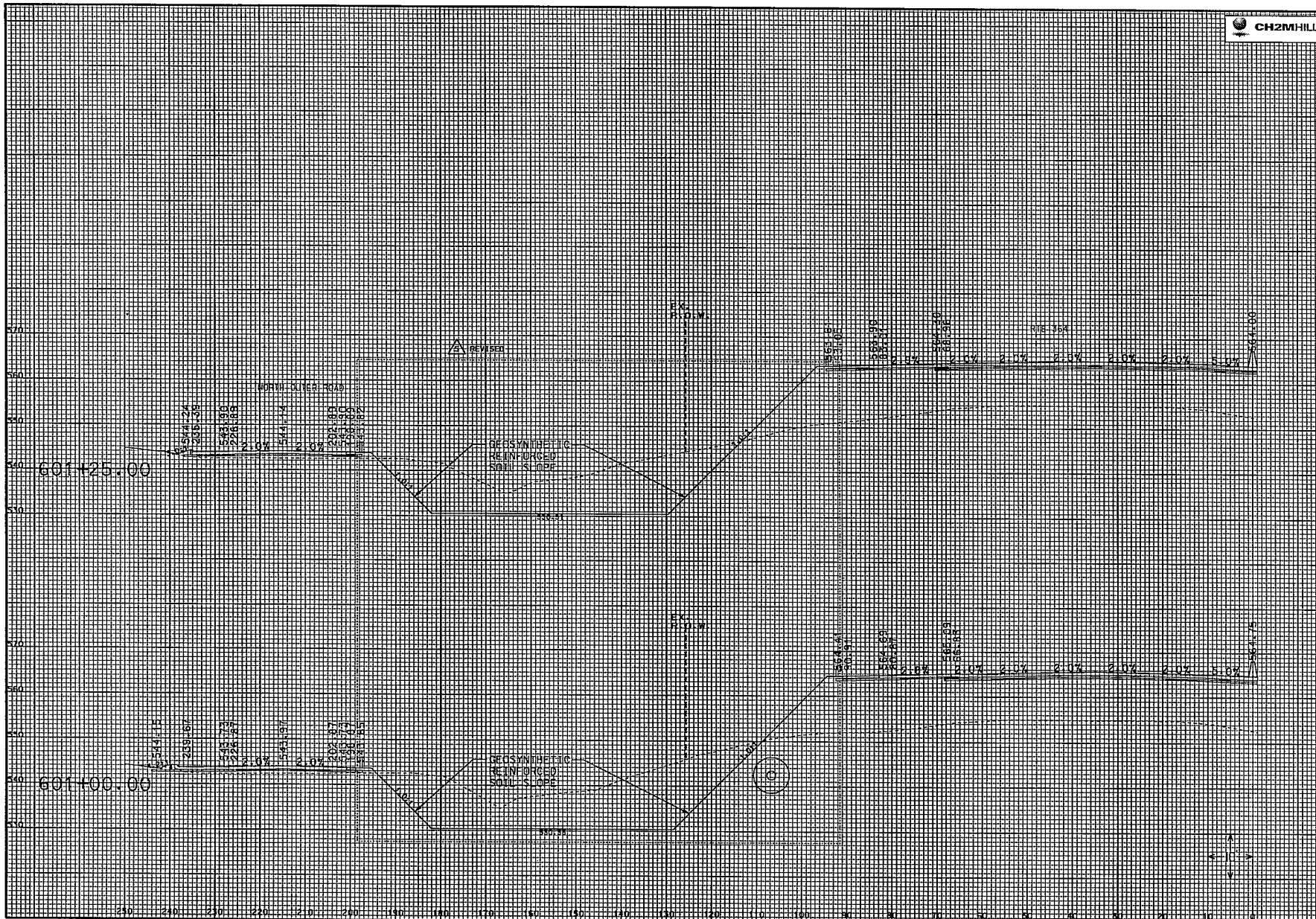

STATE OF MISSOURI
TIMOTHY F. NITTLER
NUMBER E-27149
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	3-11-10
ROUTE	364
STATE	MO
DISTRICT	6
SHEET NO.	46
COUNTY	ST CHARLES
JOB NO.	J6U1028P
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION
3-11-10	REVISION 5

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 46 OF 75

REV.

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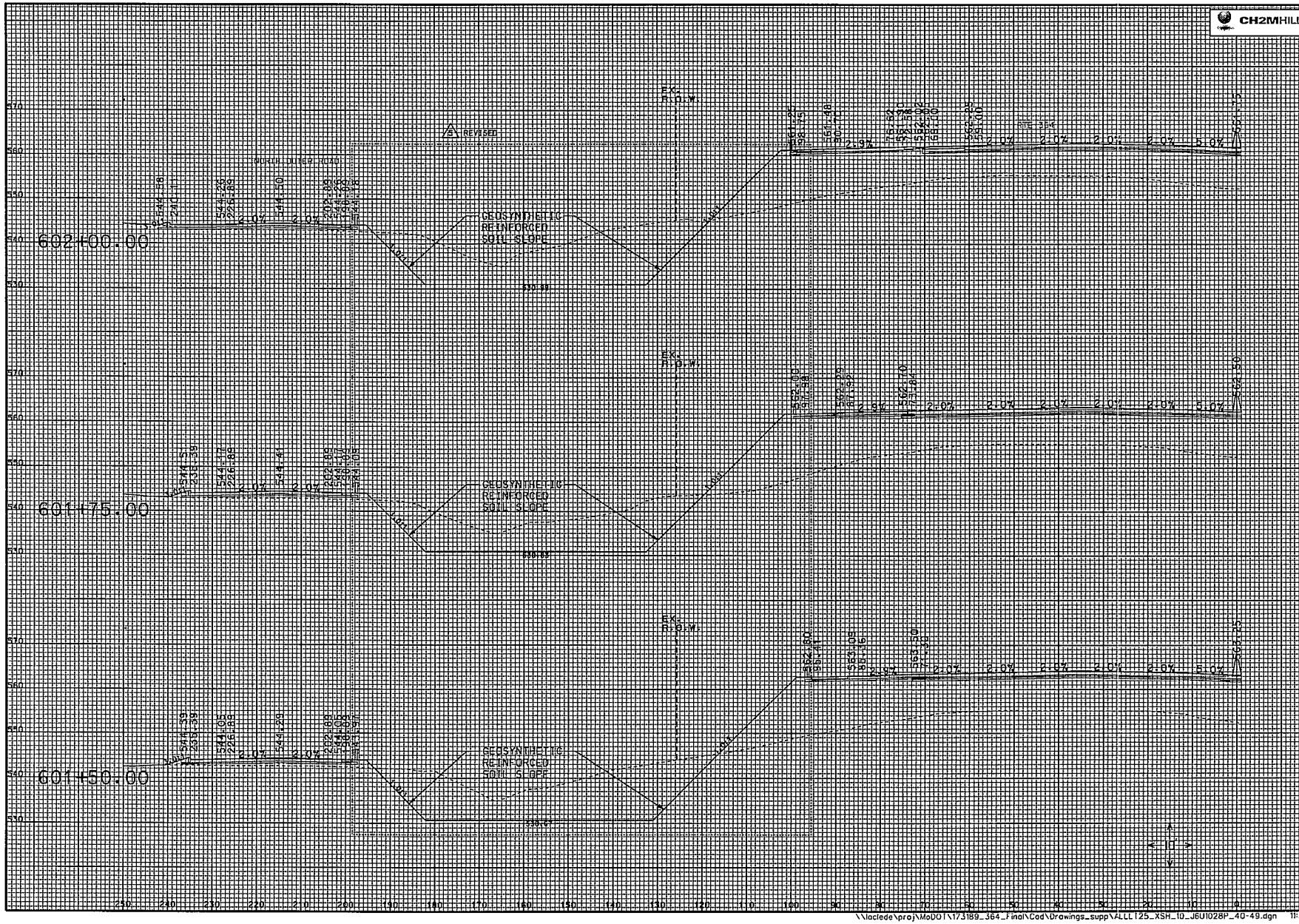

STATE OF MISSOURI
TIMOTHY F. NITTLER
NUMBER E-27149
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	3-11-10
ROUTE 364	STATE MO
DISTRICT 6	SHEET NO. 47
COUNTY	ST CHARLES
JOB NO.	J6U1028P
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION
3-11-10	REVISION 5

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 47 OF 75

REV.

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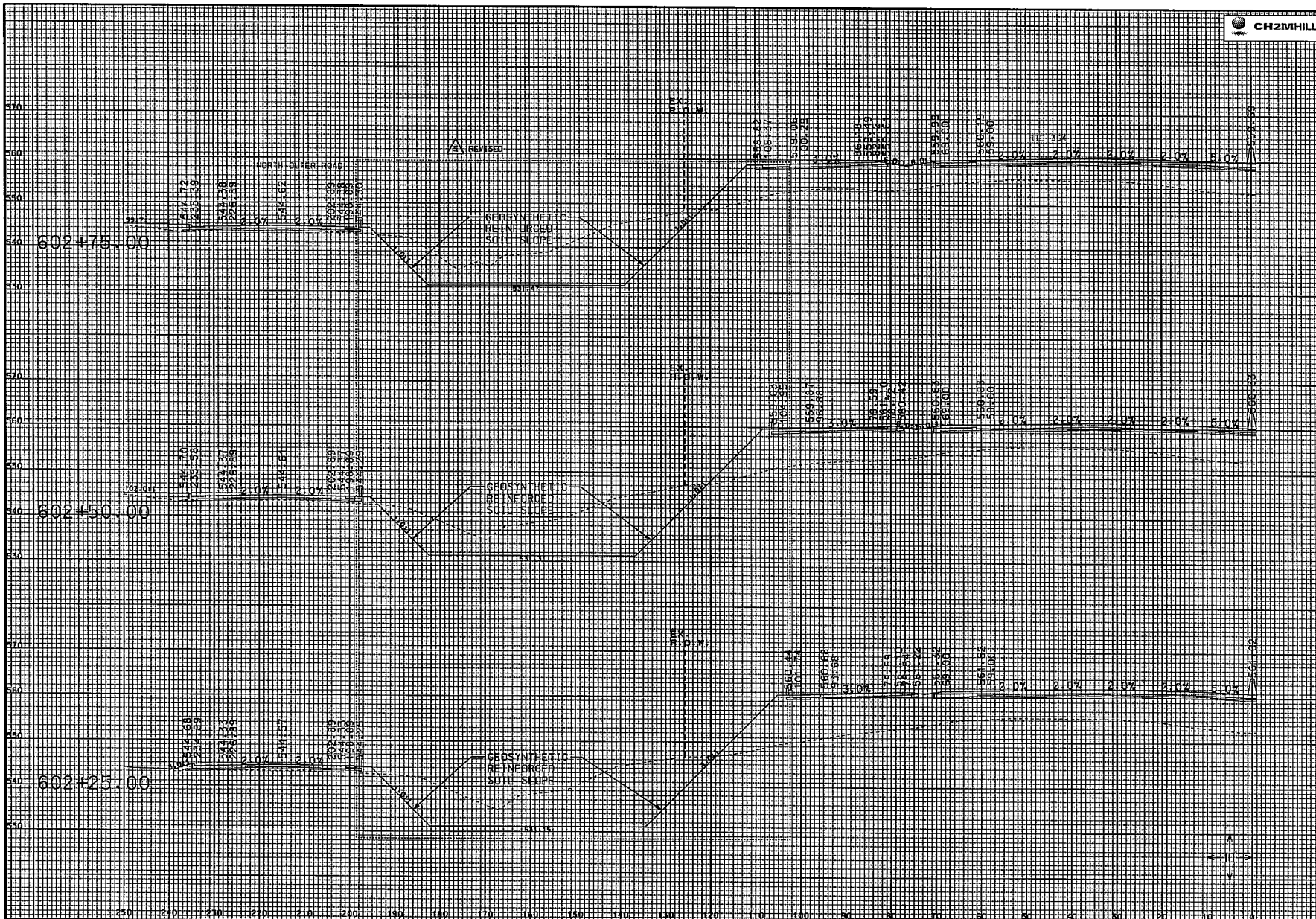

STATE OF MISSOURI
TIMOTHY F. NITTLER
NUMBER E-27149
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	3-11-10
ROUTE 364	STATE MO
DISTRICT 6	SHEET NO. 48
COUNTY ST CHARLES	
JOB NO. J6U1028P	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION
3-11-10	REVISION 5

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 48 OF 75

REV.

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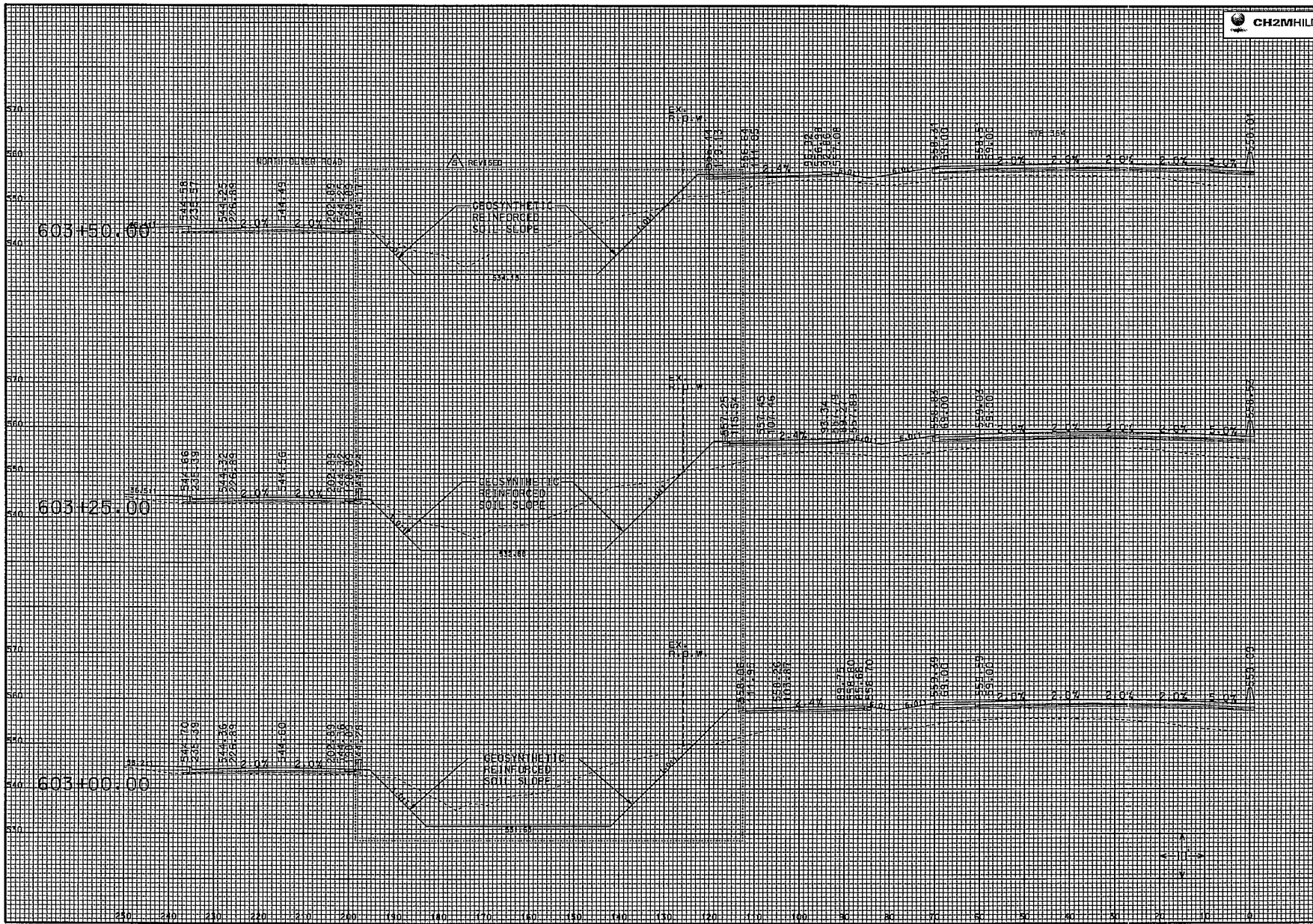

CH2MHILL

STATE OF MISSOURI
TIMOTHY F. NITTLER
NUMBER E-27149
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	3-11-10
ROUTE	364
STATE	MO
DISTRICT	6
SHEET NO.	49
COUNTY	ST CHARLES
JOB NO.	J6U1028P
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION
3-11-10	REVISION 5

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 49 OF 75

REV.

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STATE OF MISSOURI
TIMOTHY F. NITTLER
NUMBER E-27149
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED	5/29/09
ROUTE 364	STATE MO
DISTRICT 6	SHEET NO. 50
COUNTY	ST CHARLES
JOB NO.	J6U1028P
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CROSS SECTIONS
ROUTE 364 LEFT
SHEET 50 OF 75

REV.

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VALUE ENGINEERING CHECK SHEET

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.)
- ✓ Grading/MSE Walls
- o Signal/Lighting/ITS
- o Misc

SUMMARY OF PROPOSAL

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

This VE involves shifting a ramp, and building a rock slope and MSE wall, in lieu of relocating a utility.

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.