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STATE OF MISSOURI
ROBERT C. GUMMERSHEIMER
NUMBER E-22975
REGISTERED PROFESSIONAL ENGINEER

491.10' (R)
494.64' N25°41'18"E (S)

144.68' (R)
146.34' N39°28'45"E (S)

EXISTING FENCE (UIP)

3'X3' TYPE E PRECAST DROP INLET

POT STA 0+00.00
BEGIN DITCH

STA 1+34.52
P.I.

SS -2

SS -3

8 NEW V-BOTTOM DITCH

POT STA 4+09.79
END DITCH

10.00'

10.00'

2.00'

CB -3

CB -2

CB -4

380.88' S09°04'14"W (S)
379' ± (R)

236.13' N81°05'46"W

24" CMP

SS -1

14.00'

CONCRETE PIPE CULVERT HEADWALL
ENERGY DISSIPATOR (IMPACT TYPE)
SEE STANDARD PLAN 604.11E

Outlet

TYPE 2 ROCK BLANKET
FOR OUTLET

6.00'

266.09' S43°38'05"W

EXCAVATE AND GRADE SLOPE TO TREE LINE
(LOCATION APPROXIMATE)

DATE PREPARED
5/24/2011

ROUTE	STATE
OHIO MAINTENANCE	MO
DISTRICT	SHEET NO.
6	1

COUNTY
ST. LOUIS CITY

JOB NO.

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

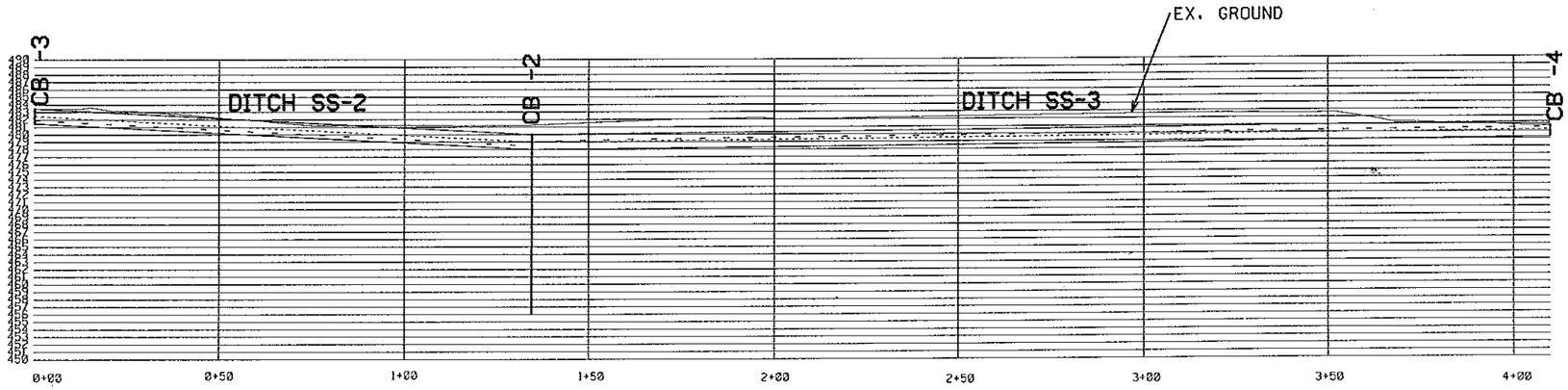
MoDOT

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

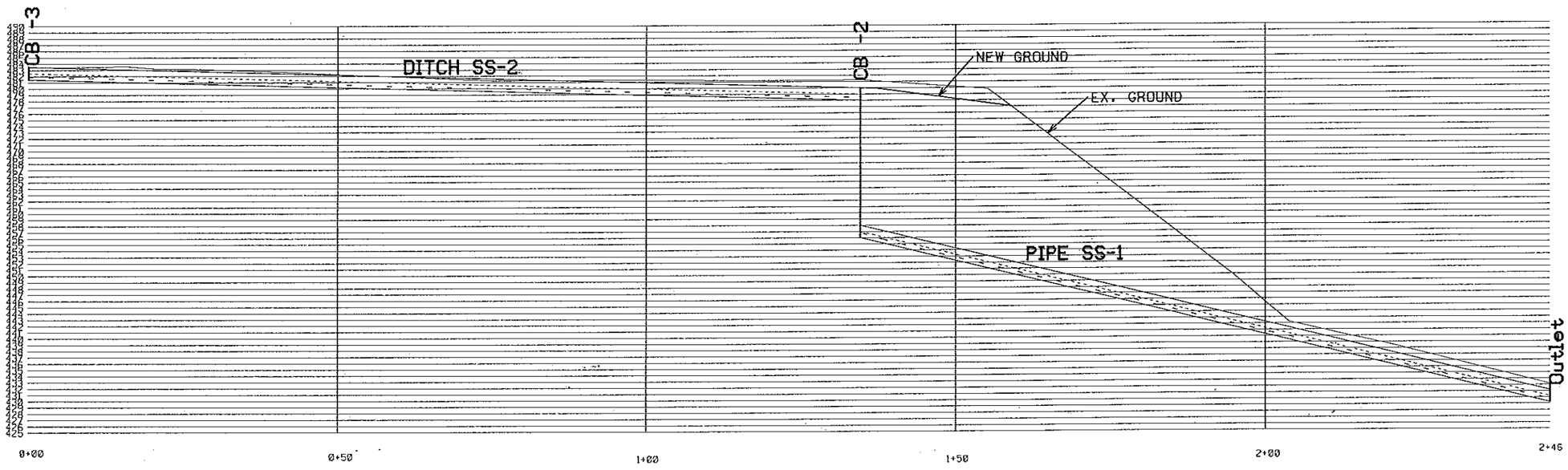
PLAN SHEET
SHEET 1 OF 1

LEGEND

·····	℄ OF DITCH/PIPE
- -	FLOWLINE OF DITCH/PIPE



DITCH PROFILE
CB-3 TO CB-4
WEST TO EAST



DITCH & PIPE PROFILE
DITCH CB-3 TO INLET CB-2
INLET CB-2 TO OUTLET

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STATE OF MISSOURI
ROBERT C. SUMMERSHEIMER
NUMBER E-22975
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED
5/24/2011

ROUTE	STATE
OHIO MAINTENANCE	MO
DISTRICT	SHEET NO.
6	2

COUNTY
ST. LOUIS CITY

JOB NO.

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)

DRAINAGE PROFILES
SHEET 1 OF 1

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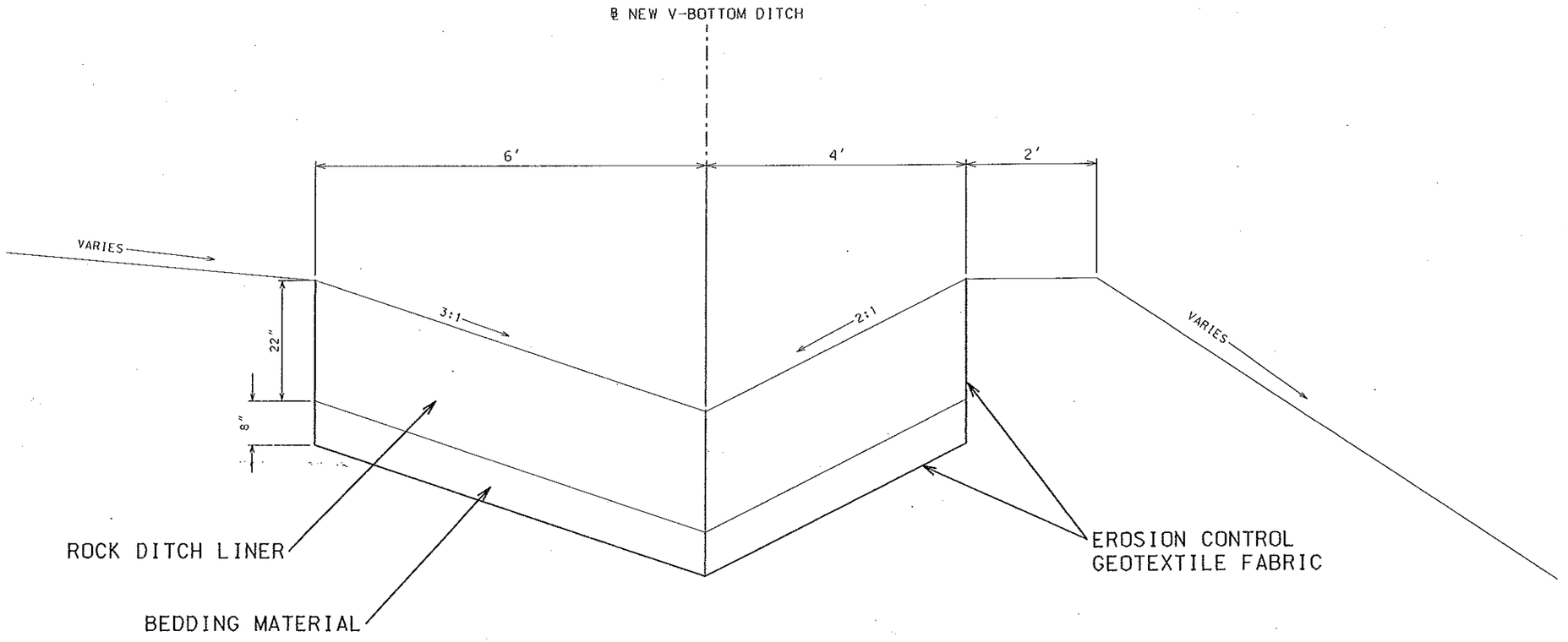
STATE OF MISSOURI
ROBERT C. GUMMERSHEIMER
NUMBER E-22375
REGISTERED PROFESSIONAL ENGINEER



*TYPE 3 ROCK DITCH LINER IS TO BE USED FOR ENTIRE CHANNEL LENGTH.
SEE STANDARD PLANS FOR TYPICAL DITCH LINER DETAILS.

TYPICAL SECTION
V-BOTTOM CHANNEL

DATE PREPARED 5/24/2011
ROUTE OHIO MAINTENANCE | STATE MO
DISTRICT 6 | SHEET NO. 3
COUNTY ST. LOUIS CITY
JOB NO.
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

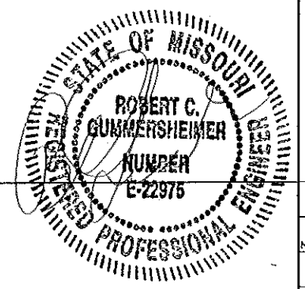
DESCRIPTION | DATE

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

TYPICAL SECTIONS
SHEET 1 OF 1

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES



PIPES						
PLAN SHEET NO.	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	24" GROUP B (LF)	ROCK BLANKET FURNISHING TYPE 2 (C.Y.)	ROCK BLANKET PLACING TYPE 2 (C.Y.)	REMARKS
1	CB-2	OUTLET	115.00	19.00	19.00	EXCAVATION INCLUDED IN COST FOR GROUP B PIPE
		SUBTOTAL	115.00	19.00	19.00	
		PAY TOTAL	115.0	19.0	19.0	

DITCH LINING										
PLAN SHEET NO.	STATION	STATION	FORE SLOPE	BACK SLOPE	LINING DEPTH (IN.)	EROSION CONTROL GEOTEXTILE (S. Y.)	ROCK DITCH LINING FURNISHING TYPE 3 (C.Y.)	ROCK DITCH LINING PLACING TYPE 3 (C.Y.)	BEDDING MAT. FOR ROCK DITCH LIN. (C.Y.)	REMARKS
1	0+00.00	4+09.79	3:1	2:1	30	492.00	301.00	301.00	109.00	
					SUBTOTAL	492.00	301.00	301.00	109.00	
					PAY TOTAL	492.0	301.0	301.0	109.0	

PRECAST DROP INLETS & MANHOLES								
PLAN SHEET NO.	STRUCTURE NUMBER	STATION	INLET OR MANHOLE	INLET COVER TYPE E	3'X3' INLET PAY 'D' (LF)	CLASS 3 EXCAVATION (C.Y.)	GRATES & BEARING PLATES (EA)	REMARKS
1	CB-2	1+34.52	INLET	1	24.00	19.00	1.00	
				SUBTOTAL	24.00	19.00	1.00	
				PAY TOTAL	24.0	SEE EARTHWORK	1.0	

EARTHWORK						
PLAN SHEET NO.	STATION	STATION	UNCLASSIFIED EXCAVATION (C.Y.)	CLASS 3 EXCAVATION (C.Y.)	COMPACTING EMBANKMENT (C.Y.)	REMARKS
1	0+00.00	0+50.00	203		2	
1	0+50.00	1+00.00	237		1	
1	1+00.00	1+50.00	99		0	
1	1+50.00	2+00.00	96		0	
1	2+00.00	2+50.00	76		0	
1	2+50.00	3+00.00	91		0	
1	3+00.00	3+50.00	87		3	
1	3+50.00	0+4.00	47		19	
1	1+34.52			19		AT DROP INLET
		SUBTOTAL	936.00	19.00	25.00	
		PAY TOTAL	936.0	19.0	25.0	

CONCRETE HEADWALL				
PLAN SHEET. NO.	LOCATION	CLASS B CONCRETE (C.Y.)	REINFORCING STEEL (LB)	REMARKS
1	OUTLET	9.50	820.00	
	SUBTOTAL	9.50	820.00	
	PAY TOTAL	9.5	820.0	

CONTRACTOR FURNISHED SURVEYING	
LUMP SUM	QUANTITY
	1

MOBILIZATION	
LUMP SUM	QUANTITY
	1

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DATE PREPARED 5/25/2011

ROUTE OHIO MAINTENANCE | STATE MO

DISTRICT 6 | SHEET NO. 4

COUNTY ST. LOUIS CITY

JOB NO.

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)

QUANTITY SHEETS

SHEET 1 OF 1

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DRAINAGE
0+50.00

EL 457

N 998661.2550
E 897352.7524

N 998649.3403
E 897363.4313

N 998604.6600
E 897403.4773

485
480
475
470
465
460
455
450

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65

DRAINAGE
0+00.00

EL 481

N 998627.8834
E 897315.5189

N 998615.9687
E 897326.1978

N 998571.2884
E 897366.2437

485
480
475
470
465
460

40 35 30 25 20 15 10 5 0 5 10 15 20 70

STATE OF MISSOURI
ROBERT C. GUMMERSHEIMER
NUMBER E-22975
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED
5/24/2011

ROUTE OHIO MAINTENANCE | STATE MO
DISTRICT 6 | SHEET NO. 5
COUNTY ST. LOUIS CITY
JOB NO.
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

CROSS SECTIONS
SHEET 1 OF 5

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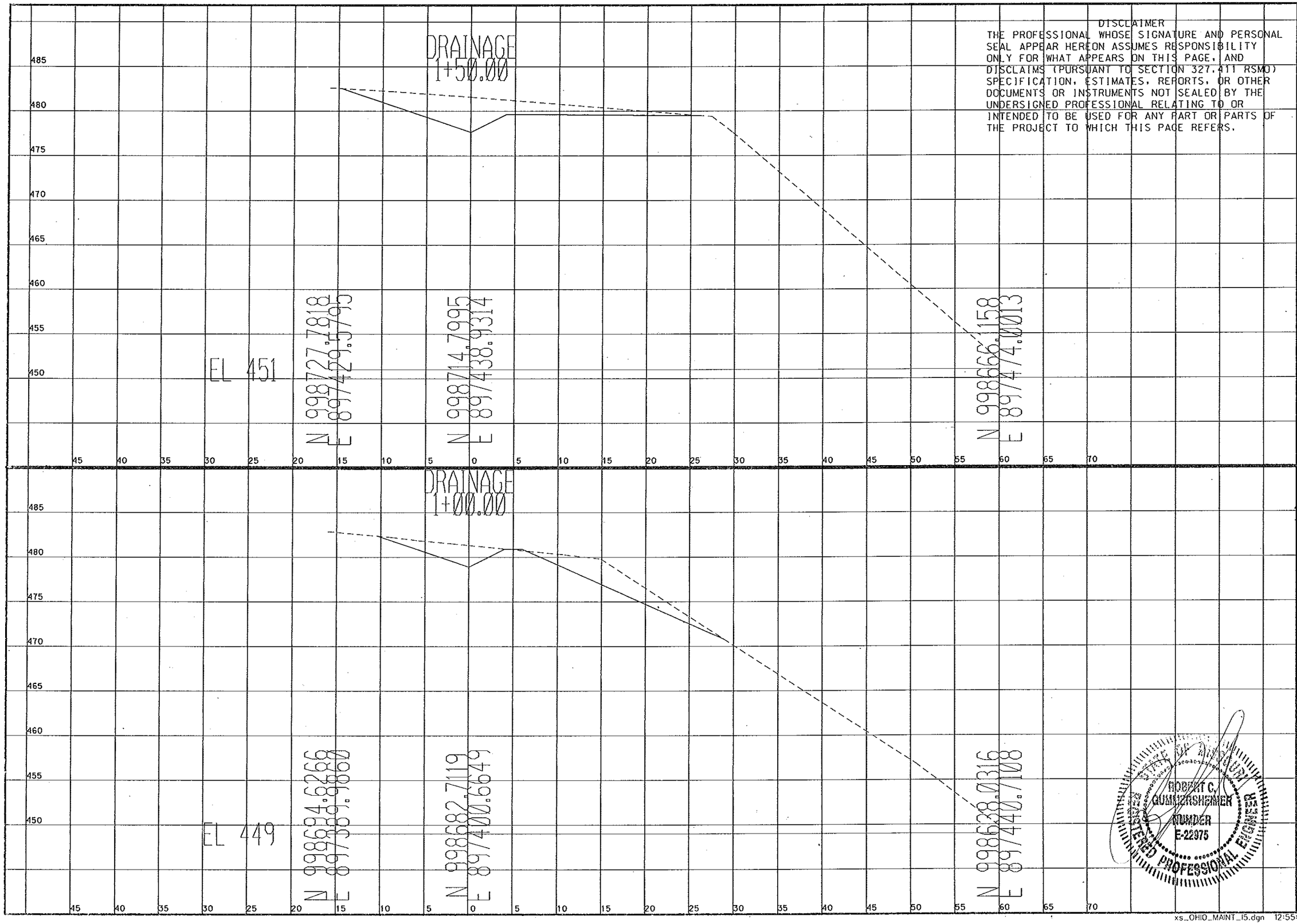

DATE PREPARED
5/24/2011

ROUTE	STATE
OHIO MAINTENANCE	MO
DISTRICT	SHEET NO.
6	6

COUNTY
ST. LOUIS CITY

JOB NO.

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

ROBERT C. GUMMERSHEIMER
NUMBER E-22975
REGISTERED PROFESSIONAL ENGINEER

CROSS SECTIONS
SHEET 2 OF 5

xs_OHIO_MAINT_15.dgn 12:55:27 PM 5/24/2011

DRAINAGE
2+50.00

EL 455

N 998788.2315
E 897510.7191

N 998773.2492
E 897520.0710

N 998724.5655
E 897551.1408

DRAINAGE
2+00.00

EL 456

N 998757.0067
E 897470.1483

N 998744.0244
E 897479.5012

N 998695.3406
E 897514.6711

485
480
475
470
465
460
455
450

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

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STATE OF MISSOURI
ROBERT C. QUINNARSHEINER
NUMBER E-22975
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED
5/24/2011

ROUTE	STATE
OHIO MAINTENANCE	MO
DISTRICT	SHEET NO.
6	7

COUNTY
ST. LOUIS CITY

JOB NO.

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
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1-888-ASK-MODOT (1-888-275-6636)

CROSS SECTIONS
SHEET 3 OF 5

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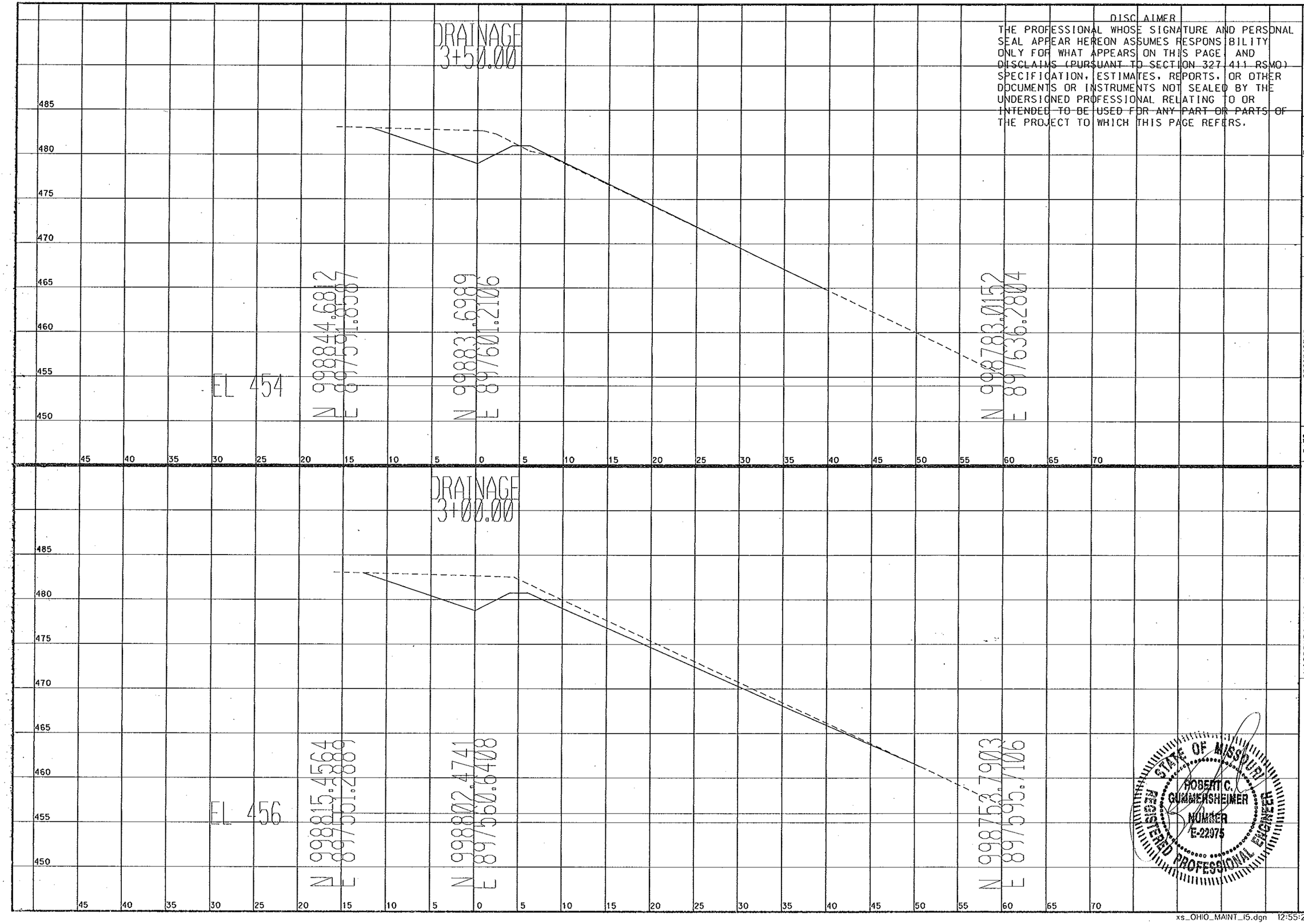

DATE PREPARED
5/24/2011

ROUTE	STATE
OHIO MAINTENANCE	MO
DISTRICT	SHEET NO.
6	8

COUNTY
ST. LOUIS CITY

JOB NO.

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)

STATE OF MISSOURI
ROBERT C. GUMMERSHEIMER
NUMBER E-22975
REGISTERED PROFESSIONAL ENGINEER

CROSS SECTIONS
SHEET 4 OF 5

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DRAINAGE
4+09.79

EL 473

N 998879.6283
E 897640.3720

N 998866.6460
E 897648.7240

N 998817.9622
E 897684.9138

485
480
475
470
465
460
455

45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

STATE OF MISSOURI
ROBERT C. GUMMERSHEIMER
NUMBER E-22975
REGISTERED PROFESSIONAL ENGINEER

DATE PREPARED
5/24/2011

ROUTE
OHIO MAINTENANCE

STATE
MO

DISTRICT
6

SHEET NO.
9

COUNTY
ST. LOUIS CITY

JOB NO.

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)

CROSS SECTIONS
SHEET 5 OF 5

xs_OHIO_MAINT_I5.dgn 12:55:30 PM 5/24/2011

Coordinate Point Listing
Missouri Coordinate System of 1983

Reciprocal Average Grid Factor : 1.00005977

SHEET NO.	STATION[1]	LOCATION	OFFSET[1] (FEET)	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION
1	0+00.00	℄	0	998556.28	897272.57	CB-3 (BEGIN DITCH)
1	0+00.00	RT	6	998551.81	897276.57	TOP OF SLOPE
1	0+50.00	RT	6	998585.18	897313.80	TOP OF SLOPE
1	1+00.00	RT	6	998618.55	897351.03	TOP OF SLOPE
1	1+34.52	℄	0	998646.06	897372.73	CB-2 (DROP INLET)
1	1+50.00	RT	6	998650.24	897388.80	TOP OF SLOPE
1	2+00.00	RT	6	998679.47	897429.37	TOP OF SLOPE
1	2+50.00	RT	6	998708.68	897469.94	TOP OF SLOPE
1	3+00.00	RT	6	998737.91	897510.50	TOP OF SLOPE
1	3+50.00	RT	6	998767.13	897551.07	TOP OF SLOPE
1	4+09.79	RT	6	998802.08	897599.58	TOP OF SLOPE
1	4+09.79	℄	0	998806.95	897596.07	CB-4 (END DITCH)

1 Ground Distance

NOTE : The reciprocal of the average grid factor is used as a multiplier from state plane distance to ground distance.

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STATE OF MISSOURI
ROBERT C. GUNNERSHEIMER
NUMBER E-22975
REGISTERED PROFESSIONAL ENGINEER

ROUTE: 010 MAINTENANCE | STATE: MO
DISTRICT: 6 | SHEET NO.: 10
COUNTY: ST. LOUIS CITY
JOB NO.
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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COORDINATED POINT SHEET
SHEET 1 OF 1

REV.

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