

PLANS
NOT
TO
SCALE

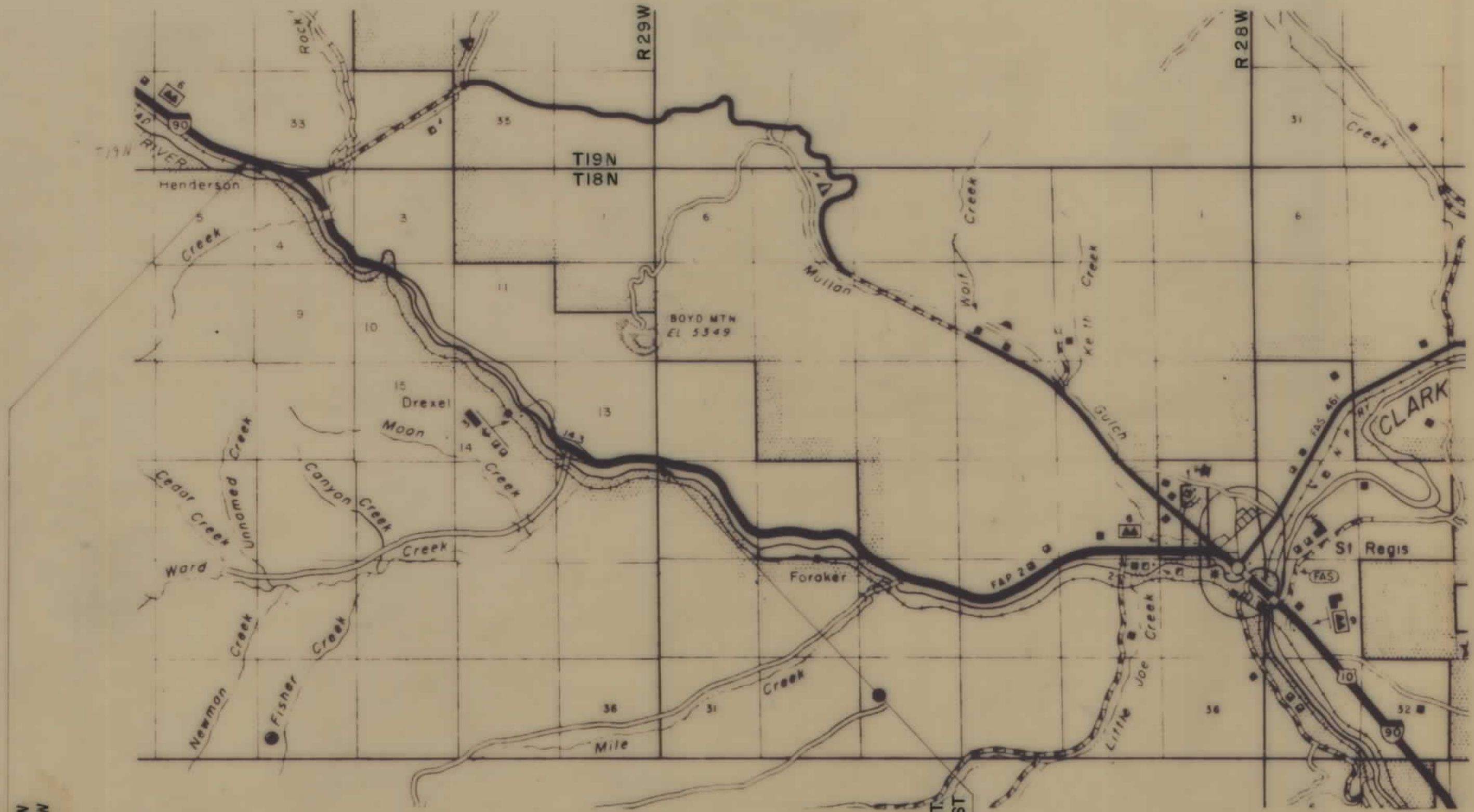
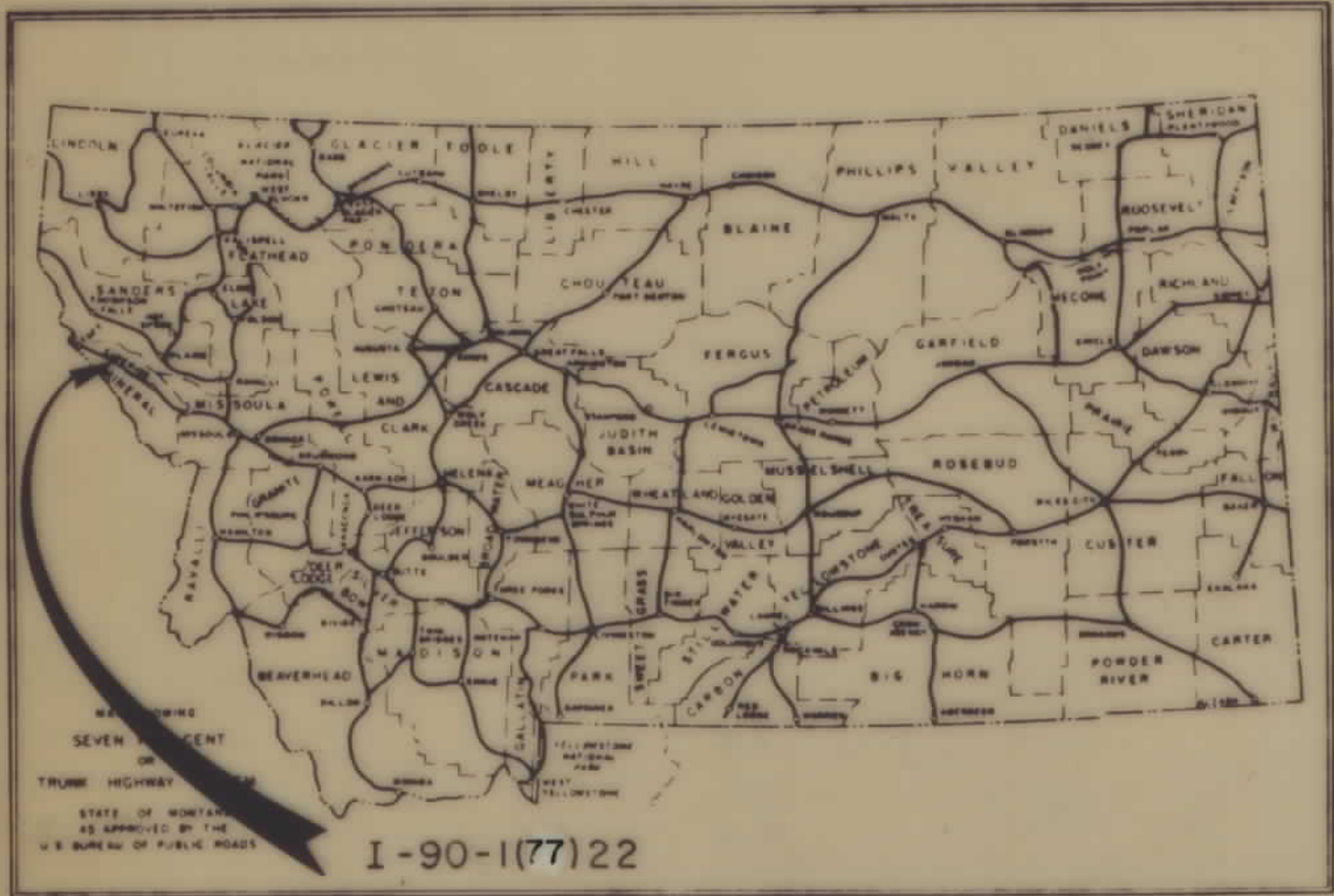
STATE OF MONTANA
DEPARTMENT OF HIGHWAYS

RIGHT OF WAY PLAN OF
FEDERAL AID PROJECT No. I-90-1(77)22 CONST.
IDAHO STATE LINE TO MISSOULA CO. LINE I-90-1(71)22 R/W
DREXEL EAST & WEST I-90-1(12)22 P.E.
MINERAL COUNTY

LENGTH 5.501 MILES

SCALES
HORIZONTAL: 1 Inch = 100 Feet

REDUCTION PRINTS 1/2 ORIGINAL SCALE



FED. ROAD DIV. NO.	STATE	F.A.P. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	MONT.	I-90-1(77)22		1	12
STATE NUMBER					
PLANS COMPLETED					
CONTRACT COMPLETED					

CONVENTIONAL SIGNS

STATE AND NATIONAL LINE	=====
COUNTY LINE	-----
CITY, VILLAGE OR BOROUGH LINE	-----
TOWNSHIP LINE	-----
SECTION LINE	-----
RESERVATION LINE	-----
FENCE LINE	-----
GUARD RAIL	-----
UNFENCED PROPERTY	-----
RIGHT OF WAY LINE	-----
RIGHT OF WAY LINE FENCED	-----
TRAVELED WAY	-----
RAILROADS	-----
RETAINING WALLS	-----
BASE OR SURVEY LINE	-----
LEVEE	-----
CULVERTS IN PLACE (PLAN)	-----
NEW CULVERTS (PLAN)	-----
NEW CULVERTS (PROFILE)	-----
TROLLEY POLE	-----
POWER POLE	-----
TELEPHONE OR TELEGRAPH POLE	-----
MARSH	-----
DITCH	-----
RIPRAP	-----
BRIDGE	-----
C/A WITH FENCE	-----
C/A WITHOUT FENCE	-----

LEGEND OF COMPLETED WORK

GRADED ROAD	-----
GRAVELED ROAD	-----
OILED ROAD	-----
PAVED ROAD	-----

NOTE:
CONSTRUCTION LIMITS DO NOT INCLUDE
BACKSLOPE ROUNDING

END I-90-1(50)16 W.B. STA 11+41 + 68.1
END I-90-1(50)16 E.B. STA 11+41 + 35.80
BEG I-90-1(77)22 W.B. STA 28+86.86 R/W
BEG I-90-1(77)22 E.B. STA 99+02.01 R/W

END I-90-1(77)22 E.B. STA 379+72.73 CONST.
END I-90-1(77)22 W.B. STA 379+87.45 CONST.
END I-90-1(77)22 W.B. STA 299+60.0 R/W

THIS CONTRACT - FOUR LANES

STATE OF MONTANA DEPARTMENT OF HIGHWAYS	
APPROVED: September 5, 1972	
H.J. ANDERSON DIRECTOR OF HIGHWAYS BY: <i>[Signature]</i> ACTING ADMINISTRATOR ENGINEERING DIVISION	
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED:	
DIVISION ENGINEER	DATE

FED. ROAD DIV. NO.	STATE	F.A.P. NO'S.	STATE NO.	SHEET NO.	TOTAL SHEETS
8	MONT.	CONSTR. NO. 1-90 I-90 (77) 22	R/W NO. 1-90 I-90 (71) 22	2	12

MENASCO-McGUINN ASSOCIATES
HELENA, MONTANA
DREXEL EAST - WEST

INDEX		
PARCEL NO.	OWNERSHIPS	SHEET NO.
1	FRED R. & EVELYN L. MOORE	3
2	U.S. GOV'T.	3-5
3	C.M. ST.P. & P. R.R.	5&6
4	U.S. GOV'T.	5&6
5	U.S. GOV'T.	6&7
6	EDITH R. MAYO	6&7
7	U.S. GOV'T.	7&8
8	WILLIAM E. BILLINGS	8-10
9	DELETED	
10	U.S. GOV'T.	9-12
11	C.M. ST.P. & P. R.R.	10
12	STATE OF MONTANA	12
8A	WILLIAM E. BILLINGS	10



STATE OF MONTANA
DEPARTMENT OF HIGHWAYS
RIGHT OF WAY OWNERSHIP MAP
MINERAL COUNTY
SCALE: 4" = 1 MILE

OWNERSHIPS								
PARCEL	NAME	ADDRESS	TOTAL ACREAGE	GROSSTAKE ACREAGE	P.T.W. ACREAGE	NET TAKE ACREAGE	REMAINDER	
							LEFT	RIGHT
1	FRED R & EVELYN L. MOORE	THOMPSON FALLS, MT.	676.0	32.2	13.3	18.9	643.8	
2	U.S. GOV'T.		SEE SHEET NO. 5					

FED. ROAD DIV. NO.	STATE	FAP NO'S.	STATE NO.	SHEET NO.	TOTAL SHEETS
8	MONT.	1-90 (77)22	1-90 (71)22	3	12

MENASCO-McGUINN ASSOCIATES
HELENA, MONTANA
DREXEL EAST-WEST

* AREAS SHOWN ARE FOR
PARCEL 46 MOORE
ON I 90-1 (47) 16 DEBORGIA
EAST AND WEST

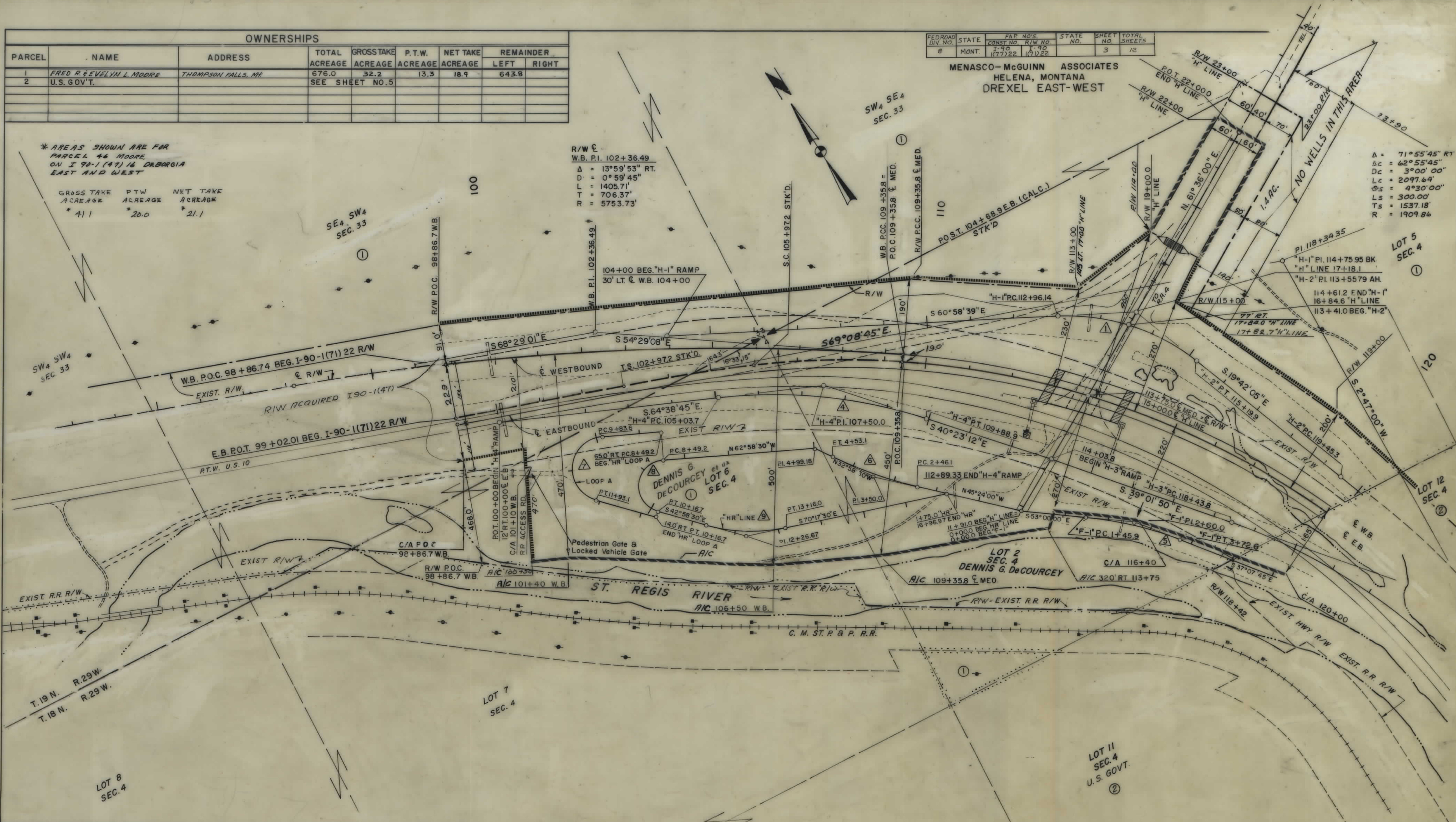
GROSS TAKE ACREAGE
* 41.1

PTW ACREAGE
* 20.0

NET TAKE ACREAGE
* 21.1

R/W &
W.B. P.I. 102+36.49
Δ = 13°59'53" RT.
D = 0°59'45"
L = 1405.71'
T = 706.37'
R = 5753.73'

Δ = 71°55'45" RT
Δc = 42°55'45"
Dc = 3°00'00"
Lc = 2097.64'
Ts = 4°30'00"
Ls = 300.00'
Ts = 1537.18'
R = 1909.86'



CURVE DATA								
	1	4	5	6	7	8	9	
Δ	41°16'34" RT.	24°15'33" RT.	15°52'15" RT.	12°25'30" RT.	160°00'00" LT.	160°00'00" LT.	27°19'00" LT.	
D	12°00'	5°00'	7°00'	6°00'	76°23'40"	95°29'35"	15°00'00"	
T	179.83'	246.28'	114.08'	103.95'	425.35'	340.25'	92.82'	
L	343.97'	485.18'	226.73'	207.08'	209.44'	167.55'	182.11'	
R	477.46'	1145.92'	818.51'	954.93'	75.00'	60.00'	381.97'	

- Sta. 99+88 W.B. New 24" X 80' Pipe Dr.
- Sta. 100+03 E.B. New 24" X 80' Pipe Dr.
- Sta. 100+03 (130' RT E.B.) 24" X 20' Pipe Dr.
- Sta. 111+95 ("H-4") New 24" X 62' Pipe Dr.
- Sta. 112+63 (RT E.B.) New 12" X 78' Emb. Prot.
- Sta. 116+00 ("H-3") New 24" X 66' Pipe Dr.
- Sta. 117+60 ("H-1") New 24" X 72' Pipe Dr.
- Sta. 118+70 ("H-1") New 24" X 68' Pipe Dr.
- Sta. 119+65 (RT E.B.) New 12" X 82' Emb. Prot.
- Sta. 120+00 ("H-3") New 24" X 66' Pipe Dr.
- Sta. 121+30 ("F-1") New 24" X 72' Pipe Dr.

NOTE:
CONSTRUCTION LIMITS DO NOT
INCLUDE BACKSLOPE ROUNDING

CONSTRUCTION LIMITS

TOP OF CUT _____

TOE OF FILL _____

MAP TRANS TO R/W _____

MAP REVISED _____

B.P.R. APPROVAL 10-22 4-9-75 6-9-75

STATE OF MONTANA
DEPARTMENT OF HIGHWAYS
LAND REQUIRED FOR RIGHT OF WAY

MINERAL COUNTY

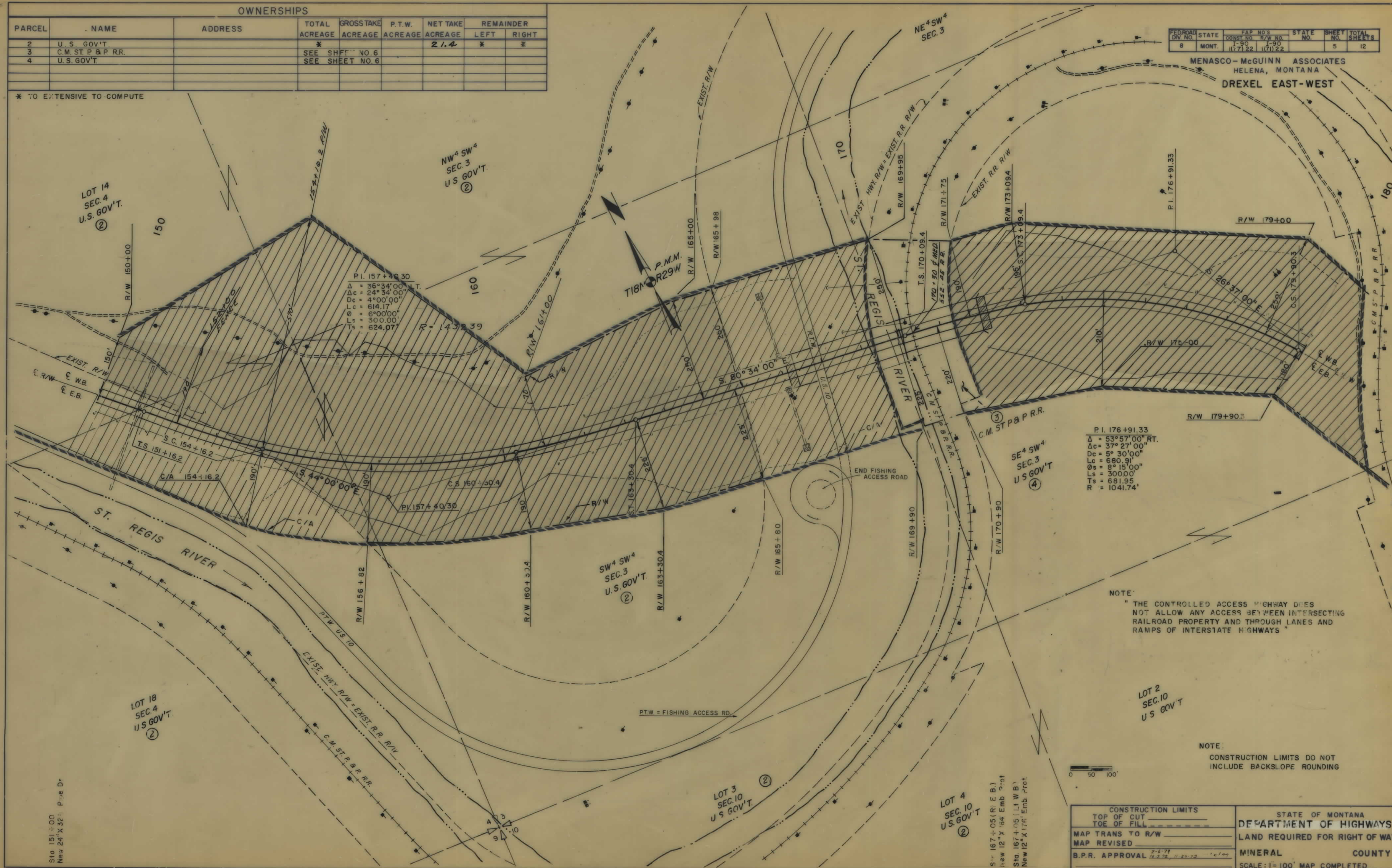
SCALE: 1"=100' MAP COMPLETED

OWNERSHIPS								
PARCEL	NAME	ADDRESS	TOTAL ACREAGE	GROSSTAKE ACREAGE	P.T.W. ACREAGE	NET TAKE ACREAGE	REMAINDER	
							LEFT	RIGHT
2	U.S. GOV'T		*			21.4	*	*
3	C.M. ST. P. & P. R.R.		SEE SHFT. NO. 6					
4	U.S. GOV'T		SEE SHEET NO. 6					

* TO EXTENSIVE TO COMPUTE

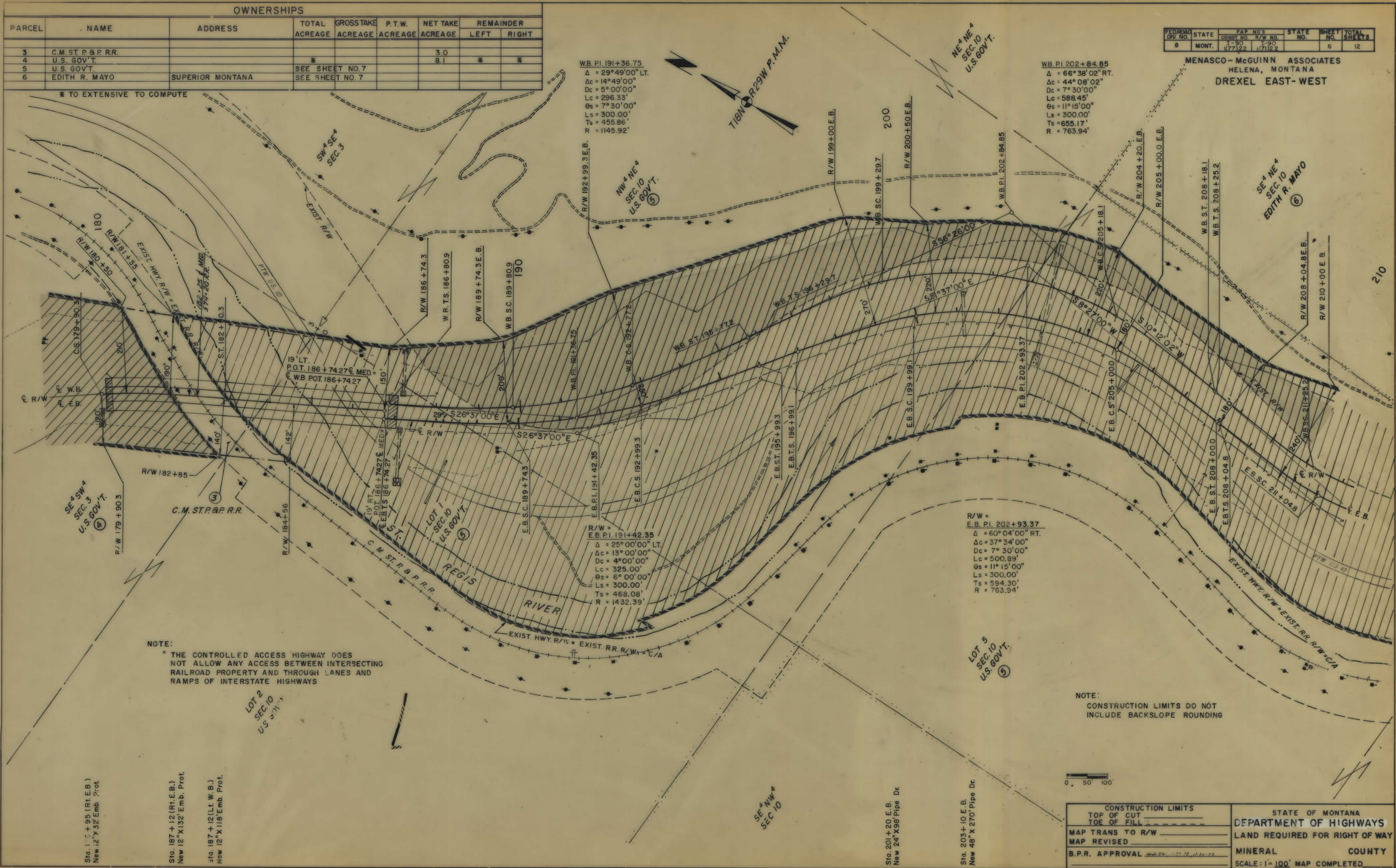
FED. ROAD DIV. NO.	STATE	FAP NO'S	CONST. NO.	R/W NO.	STATE NO.	SHEET NO.	TOTAL SHEETS
8	MONT.	1-90 (177) 22	1-90 (171) 22			5	12

MENASCO-McGUINN ASSOCIATES
HELENA, MONTANA
DREXEL EAST-WEST



OWNERSHIPS								
PARCEL	NAME	ADDRESS	TOTAL ACREAGE	GROSSTAKE ACREAGE	P.T.W. ACREAGE	NET TAKE ACREAGE	REMAINDER LEFT	REMAINDER RIGHT
3	C.M. ST. P. & P. R.R.					3.0		
4	U.S. GOV'T.		*			8.1	*	*
5	U.S. GOV'T.		SEE SHEET NO. 7					
6	EDITH R. MAYO	SUPERIOR MONTANA	SEE SHEET NO. 7					

* TO EXTENSIVE TO COMPUTE

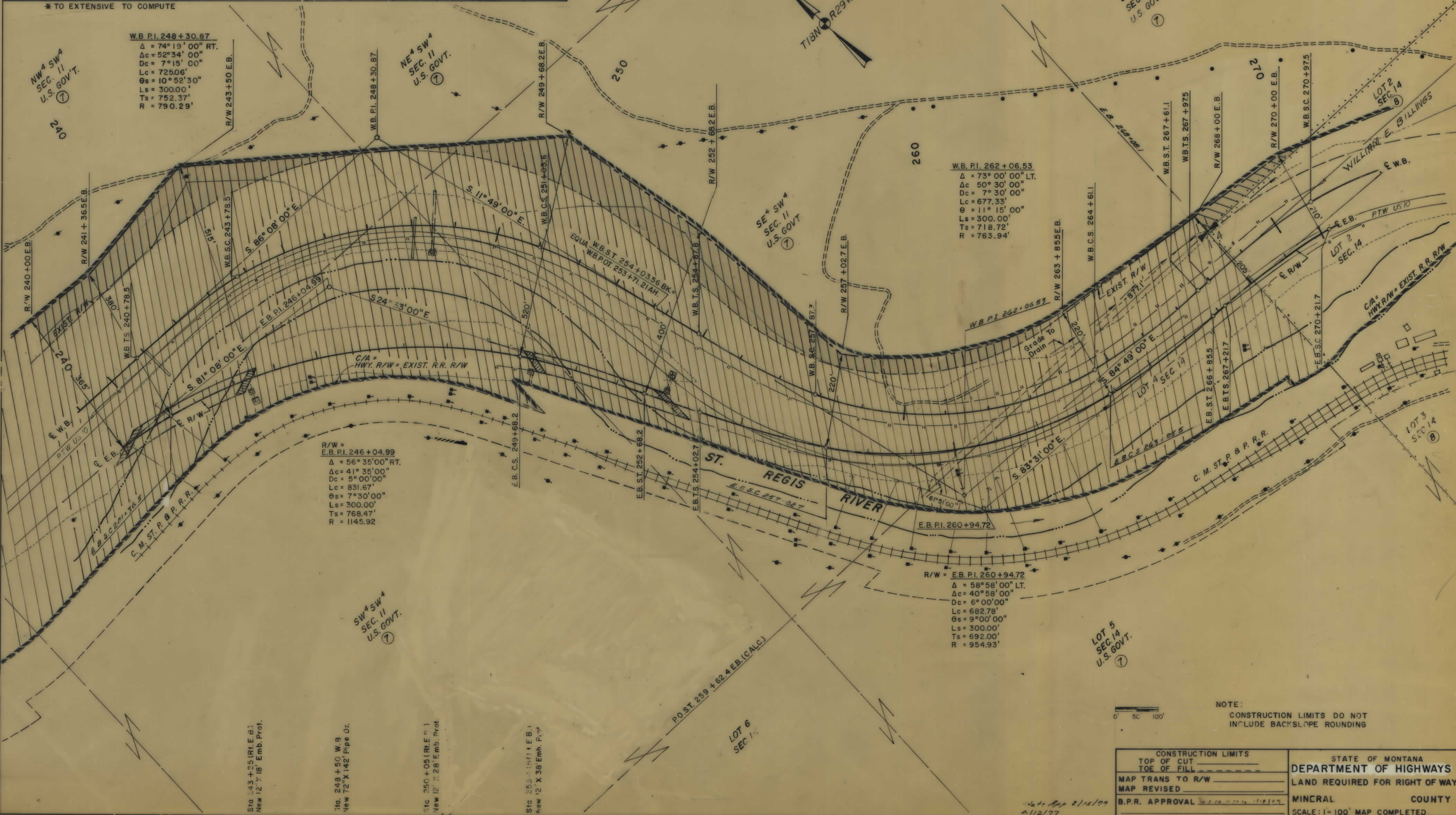


OWNERSHIPS								
PARCEL	NAME	ADDRESS	TOTAL ACREAGE	GROSSTAKE ACREAGE	P.T.W. ACREAGE	NET TAKE ACREAGE	REMAINDER LEFT	REMAINDER RIGHT
7	U.S. GOV'T.		*			4.3	*	*
8	WILLIAM E. BILLINGS	ST. REGIS, MONTANA	SEE SHEET NO. 10					
M.S.-1	DELETED							
M.S.-2	"							

* TO EXTENSIVE TO COMPUTE

FED. ROAD DIV. NO.	STATE	FAP NO.	STATE	SHEET NO.	TOTAL SHEETS
8	MONT.	1-90	1-90	6	12
		177/22	177/22		

MENASCO-McGUINN ASSOCIATES
HELENA, MONTANA
DREXEL EAST-WEST



NOTE:
CONSTRUCTION LIMITS DO NOT
INCLUDE BACKSLOPE ROUNDING

CONSTRUCTION LIMITS	STATE OF MONTANA
TOP OF CUT	DEPARTMENT OF HIGHWAYS
TOE OF FILL	LAND REQUIRED FOR RIGHT OF WAY
MAP TRANS TO R/W	MINERAL COUNTY
MAP REVISED	SCALE: 1"=100' MAP COMPLETED
B.P.R. APPROVAL	

OWNERSHIPS				
PARCEL	NAME	ADDRESS	TOTAL ACREAGE	GROSS TAKE ACREAGE
8	WILLIAM E. BILLINGS	ST REGIS MONTANA	SEE SHEET NO 10	
9	DELETED			
10	U.S. GOV'T.		SEE SHEET NO. 12	
8A	WILLIAM E. BILLINGS	ST. REGIS, MONTANA	105 AC.	105 AC.

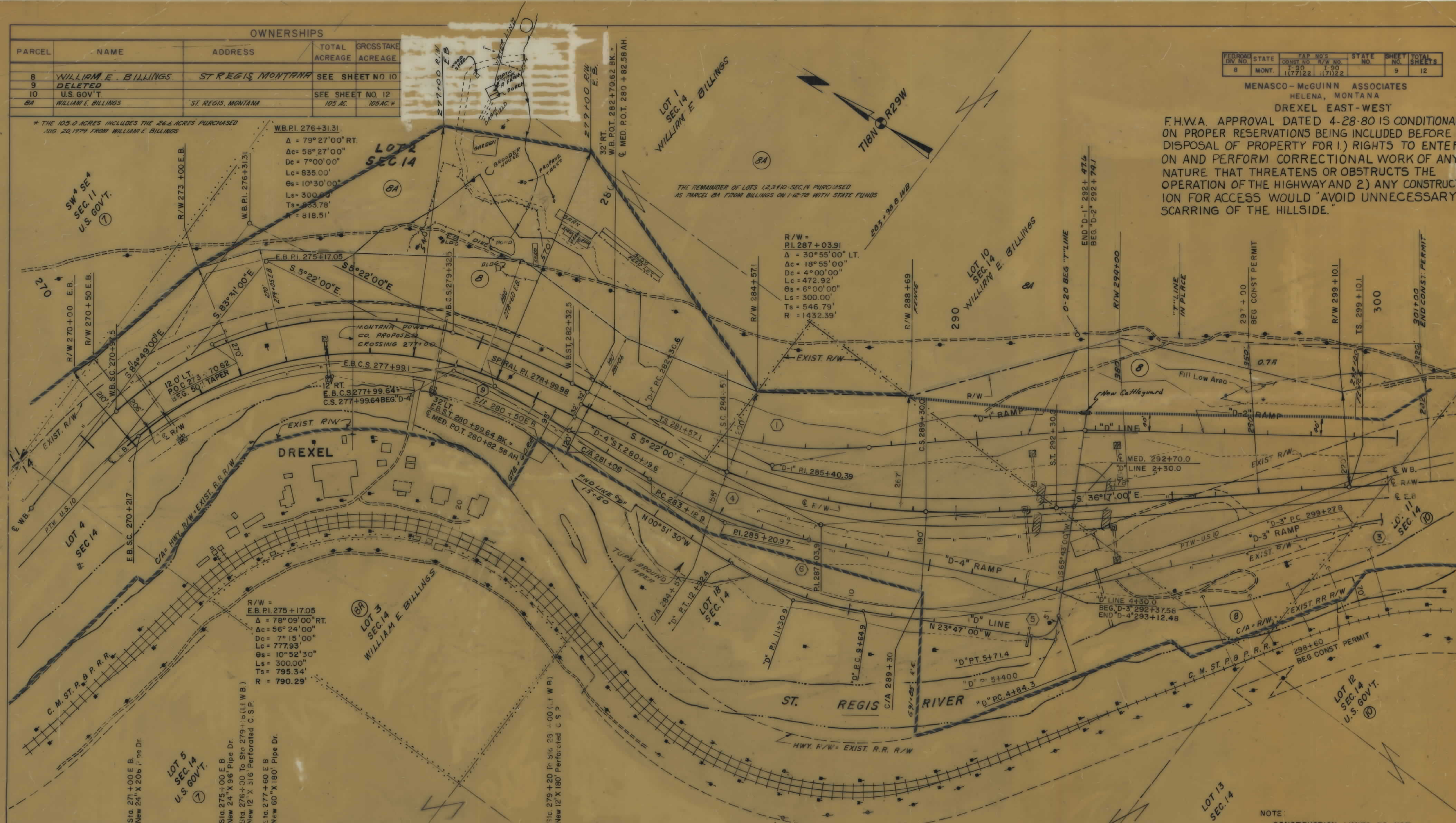
* THE 105.0 ACRES INCLUDES THE 26.6 ACRES PURCHASED AUG. 20, 1974 FROM WILLIAM E. BILLINGS

FEDERAL DIV. NO.	STATE	FAP NO'S	STATE NO.	SHEET NO.	TOTAL SHEETS
8	MONT.	177122	177122	9	12

MENASCO-McGUINN ASSOCIATES
HELENA, MONTANA

DREXEL EAST-WEST

F.H.W.A. APPROVAL DATED 4-28-80 IS CONDITIONAL ON PROPER RESERVATIONS BEING INCLUDED BEFORE DISPOSAL OF PROPERTY FOR 1.) RIGHTS TO ENTER ON AND PERFORM CORRECTIONAL WORK OF ANY NATURE THAT THREATENS OR OBSTRUCTS THE OPERATION OF THE HIGHWAY AND 2.) ANY CONSTRUCTION FOR ACCESS WOULD "AVOID UNNECESSARY SCARRING OF THE HILLSIDE."



RAMP CURVE DATA				"D" LINE CURVE DATA				CURVE DATA			
(1)	(2)	(3)	(4)	DATA	(5)	(6)	(7)	(8)	(9)	(10)	(11)
285+40.39	304+27.72	302+13.34	285+20.97	P.I. STA	5+400	11+30.9			SPIRAL P.I.	278+99.98	
35°56'39" RT.	15°39'00" LT.	22°32'56" RT.	9°50'00" LT.	Δ	30°30'00" RT.	24°15'00" RT.			Δ	10°52'30"	
6°00'	2°45'	4°00'	5°00'	D	104°10'27"	7°00'			Ls	300.00'	
309.76'	286.33'	285.56'	200.34'	T	55.48'	175.85'			S.T.	100.34'	
599.07'	569.09'	563.72'	396.67'	L	86.87'	346.43'			L.T.	200.38'	
954.93'	2083.48'	1432.39'	1145.92'	R	55.00'	818.51'					
0.067/FT.	0.047/FT.	0.067/FT.	0.077/FT.	S	0.047/FT.	0.047/FT.					

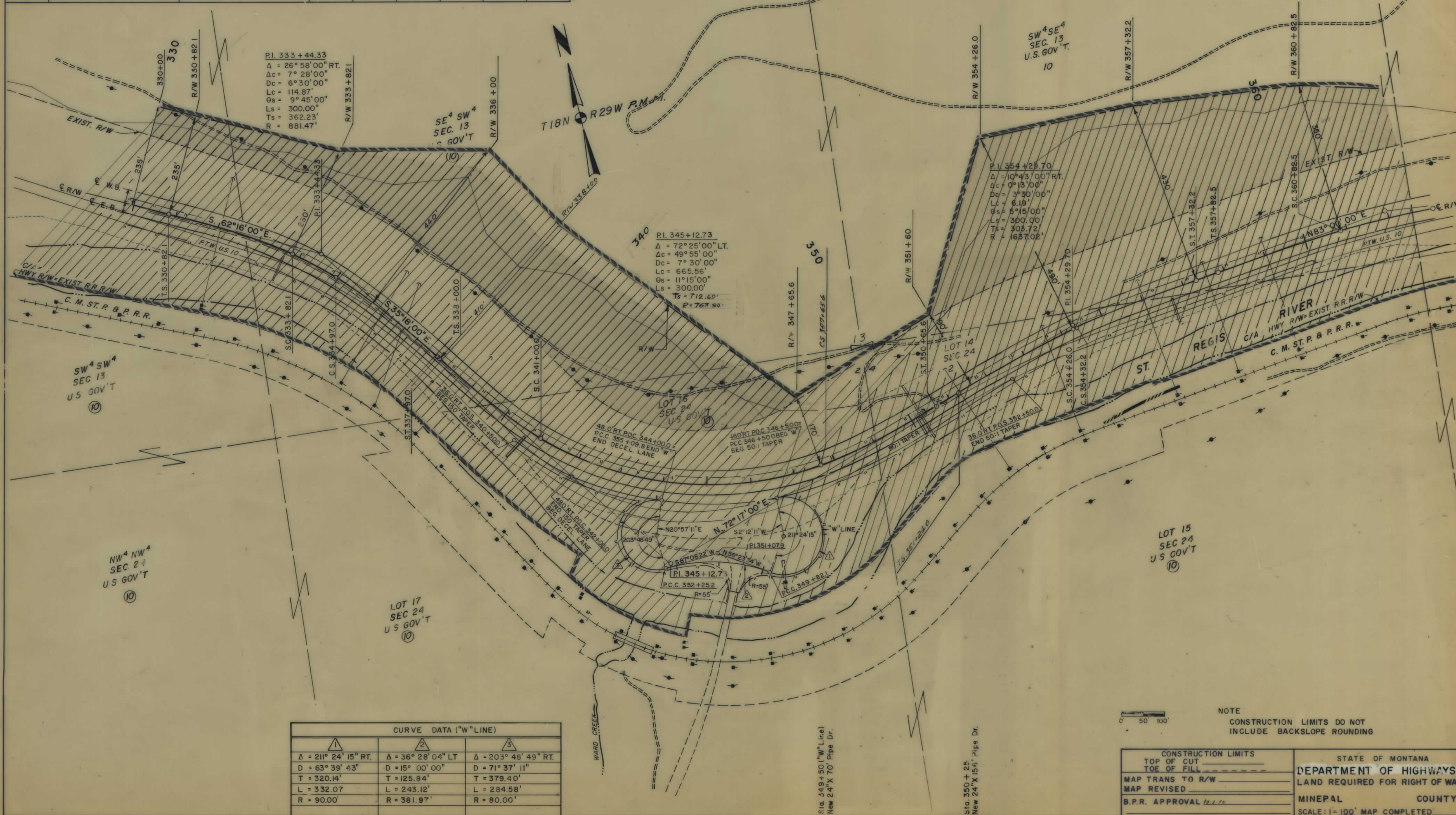
NOTE:
CONSTRUCTION LIMITS DO NOT
INCLUDE BACKSLOPE ROUNDING

CONSTRUCTION LIMITS		STATE OF MONTANA	
TOP OF CUT		DEPARTMENT OF HIGHWAYS	
TOE OF FILL		LAND REQUIRED FOR RIGHT OF WAY	
MAP TRANS TO R/W		MINERAL	COUNTY
MAP REVISED		SCALE: 1"=100'	MAP COMPLETED

OWNERSHIPS								
PARCEL	NAME	ADDRESS	TOTAL ACREAGE	GROSSTAKE ACREAGE	P.T.W. ACREAGE	NET TAKE ACREAGE	REMAINDER LEFT	REMAINDER RIGHT
10	U. S. GOV'T.		SEE SHEET NO. 12					

FED. ROAD DIST. NO.	STATE	FAP NO'S	STATE NO.	SHEET NO.	TOTAL SHEETS
8	MONT.	CONST. NO. 1-90 1(77)22	R/W NO. 1-90 1(71)22	11	12

MENASCO-McGUINN ASSOCIATES
HELENA, MONTANA
DREXEL EAST-WEST



CURVE DATA ("W" LINE)		
1	2	3
$\Delta = 211^{\circ} 24' 15''$ RT.	$\Delta = 36^{\circ} 28' 04''$ LT	$\Delta = 203^{\circ} 48' 49''$ RT.
$D = 63^{\circ} 39' 43''$	$D = 15^{\circ} 00' 00''$	$D = 71^{\circ} 37' 11''$
$T = 320.14'$	$T = 125.84'$	$T = 379.40'$
$L = 332.07'$	$L = 243.12'$	$L = 284.58'$
$R = 90.00'$	$R = 381.97'$	$R = 80.00'$

