

Oversight / NHS
FHWA REGION VIII OVERSIGHT? NO ☒ YES ☐
NATIONAL HIGHWAY SYSTEM? NO ☐ YES ☒

DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

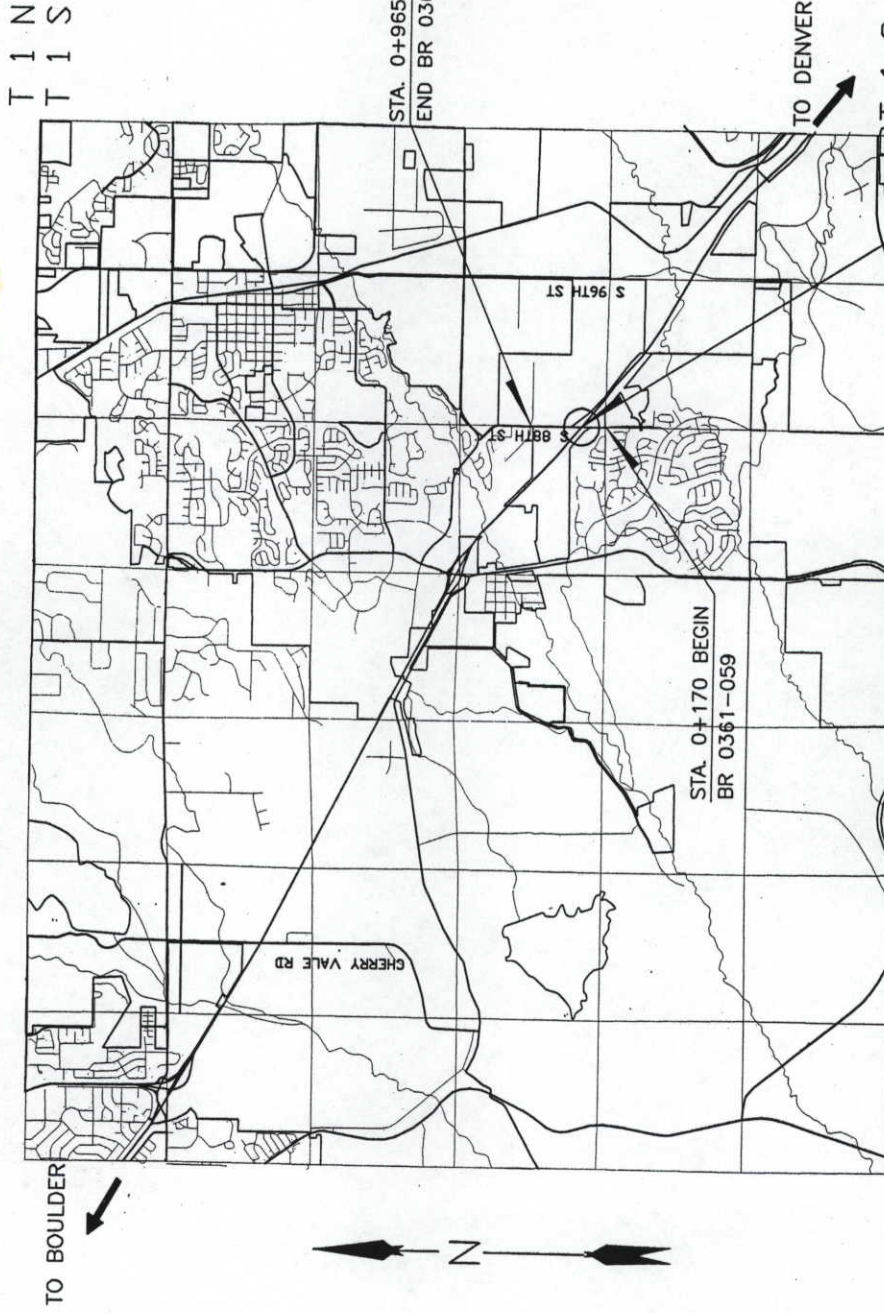
HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED
FEDERAL AID PROJECT NO. BR 0361-059
U.S. 36 AT 88TH STREET
BOULDER COUNTY
CONSTRUCTION PROJECT CODE NO. 12359

PE PROJECT BR 0361-056
PE PROJECT CODE: 11870
ROW PROJECT BR 0361-056
ROW PROJECT CODE: 11870

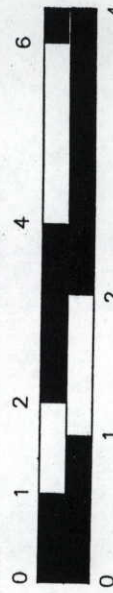
TABULATION OF LENGTH AND DESIGN DATA			
KILOMETER STATION	ROADWAY		MAJOR STR.
	METERS	METERS	METERS
88TH STREET			
STA. 0+170.00 BEGIN BR 0361-056		195.815	99.015
STA. 0+365.815 BEGIN MAJOR STRUCTURE NO. E-16-QU			
STA. 0+464.830 END MAJOR STRUCTURE NO. E-16-QU	278.92		
STA. 0+743.75 END CDOT PORTION BR 0361-059	222.19		
STA. 0+965.94 END BR 0361-059			
TOTALS	696.925	99.015	
STA. 416.14 ON BR 0361-059 = 7+10 ON T 170-1(7) = RP 44.509 ON SH 36			

SUMMARY	METERS	KILOMETERS
ROADWAY (NET LENGTH)	696.925	0.697
MAJOR STRUCTURE (NET LENGTH)	99.015	0.099
PROJECT GROSS LENGTH	795.94	0.796
PROJECT NET LENGTH	795.94	0.796

ROADWAY DESIGN DATA	
88TH STREET	
MAXIMUM RADIUS	0'45'
MAXIMUM GRADE	6.50%
MINIMUM S.S.D. HORIZONTAL	>74.3M
MINIMUM S.S.D. VERTICAL	>74.3M
MAXIMUM DESIGN SPEED	60 Km/h
2020 DESIGN TRAFFIC VOLUME	ADT = 12 800 DHW = 1 400 % TRUCKS = 4.0



SCALE IN KILOMETERS



SCALE IN MILES

SCALE OF ORIGINAL DRAWINGS

ON PLAN 1:1000
ON PROFILE 1:1000 HORIZONTAL
1:100 VERTICAL

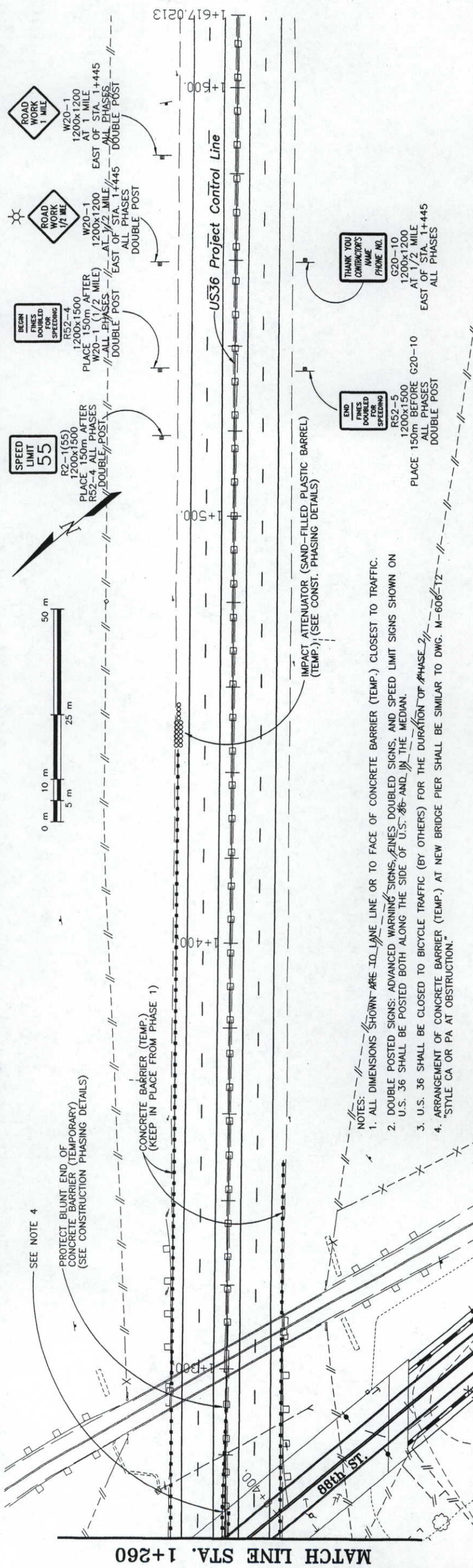
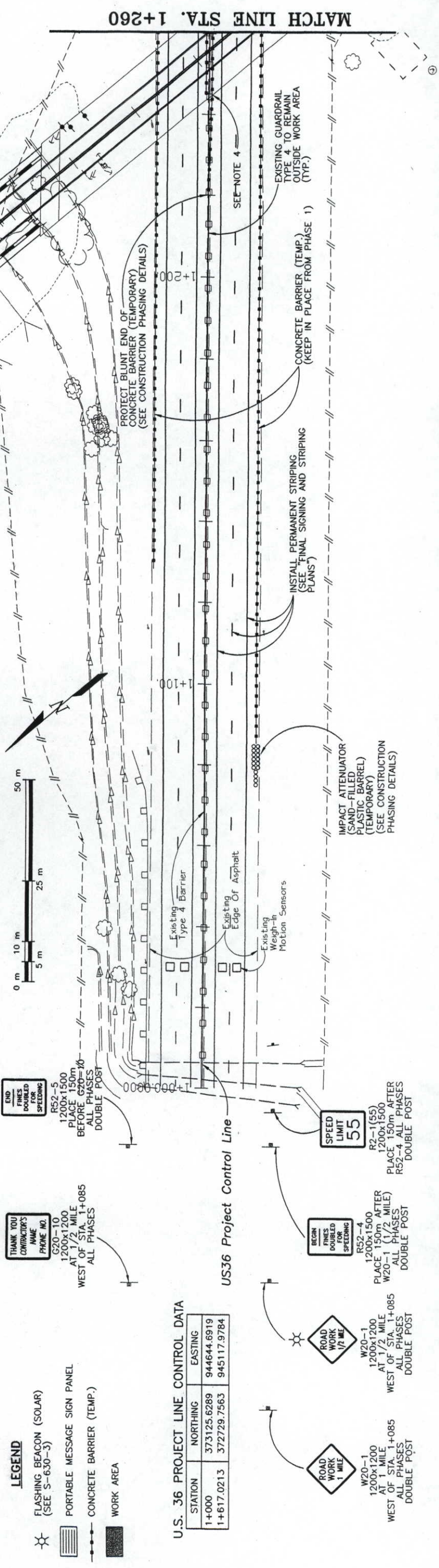
INDEX OF SHEETS

SHEET NO.	INDEX OF SHEETS
1.	TITLE SHEET, AREA MAP, TABULATIONS OF LENGTH, DESIGN DATA, AND INDEX OF SHEETS
2.	STANDARD PLANS LIST
3-4.	TYPICAL SECTIONS
5.	DITCH TYPICAL SECTIONS AND DIVERSION STRUCTURE AND QUANTITIES
6.	GENERAL NOTES
7-10.	SUMMARY OF APPROXIMATE QUANTITIES
11.	STRUCTURE QUANTITIES
12.	SURFACING PLAN AND STABILIZATION DATA
13.	TABULATIONS OF FENCING, GUARDRAIL AND REMOVAL OF TREE
14.	TABULATION OF CURB & GUTTER, AND SIDEWALK
15.	SUMMARY OF EARTHWORK QUANTITIES
16.	STORMWATER MANAGEMENT PLAN
17.	WETLAND MITIGATION
18.	SURVEY TABULATION
19-55.	STRUCTURE E-16-QU DETAILS
56-58.	BLOCK FACING M.S.E. WALL DETAIL AT 2:1 (MAX) BACKSLOPE
59-61.	ROADWAY PLAN SHEETS
62-64.	ROADWAY PROFILE SHEETS
65.	PLAN AND PROFILE OF ACCESS AT STA. 0+173.37
66.	PLAN AND PROFILE OF ACCESS AT STA. 0+558.07
67.	PLAN AND PROFILE OF ROAD APPROACH AT STA. 0+713.56
68-88.	PERMANENT SIGNING, STRIPING, AND CONSTRUCTION TRAFFIC CONTROL PLANS
89-99.	R.O.W. PLANS
100-103.	DITCH PLAN AND PROFILE SHEETS

NEW AND REVISED STANDARD PLANS

M-107-1	TEMPORARY EROSION CONTROL	3-24-97	4 SHEETS
M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES	5-7-99	2 SHEETS
M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES	5-7-99	2 SHEETS
M-601-10	HEADWALL FOR PIPE CULVERTS	8-26-98	1 SHEET
M-606-1	GUARDRAIL, TYPE 3, W-BEAM	5-7-99	15 SHEETS
M-606-12	GUARDRAIL, TYPE 4, CONCRETE BARRIER	10-29-98	2 SHEETS
M-606-13	GUARDRAIL, TYPE 7, F-SHAPE BARRIER	5-7-99	4 SHEETS
M-629-1	SURVEY MONUMENTS	8-28-97	2 SHEETS

Computer File Information		Index of Revisions		As Constructed		Project No./Code	
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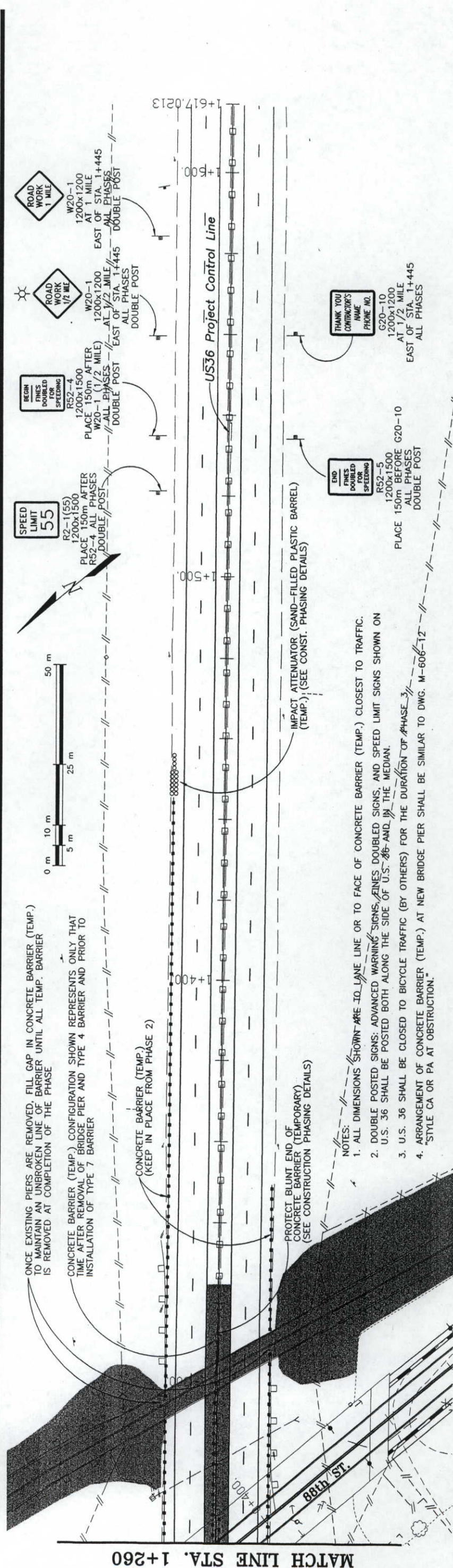
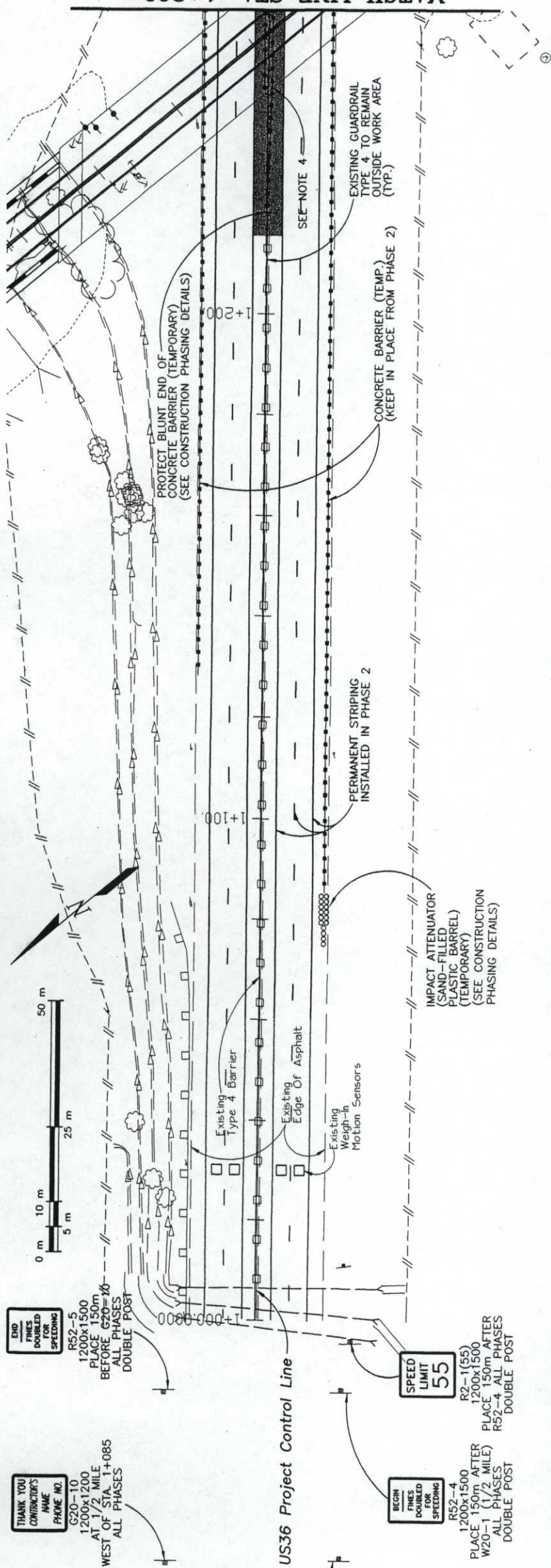
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Last Modification Date:	5/4/99					Revised:		Designer:	MDA	Structure Numbers	
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Acad Ver.	R14 W	Scale:	1:1000	Units:	Metric					Sheet Number:	7/

LEGEND

- FLASHING BEACON (SOLAR)
(SEE S-630-3)
- PORTABLE MESSAGE SIGN PANEL
- CONCRETE BARRIER (TEMP.)
- WORK AREA

U.S. 36 PROJECT LINE CONTROL DATA

STATION	NORTHING	EASTING
1+000	373125.6289	944644.6818
1+617.0213	372729.7563	945117.9784



- NOTES:
- ALL DIMENSIONS SHOWN ARE TO FACE OF CONCRETE BARRIER (TEMP.) CLOSEST TO TRAFFIC.
 - DOUBLE POSTED SIGNS: ADVANCED WARNING SIGNS, FINES DOUBLED SIGNS, AND SPEED LIMIT SIGNS SHOWN ON U.S. 36 SHALL BE POSTED BOTH ALONG THE SIDE OF U.S. 36 AND IN THE MEDIAN.
 - U.S. 36 SHALL BE CLOSED TO BICYCLE TRAFFIC (BY OTHERS) FOR THE DURATION OF PHASE 3.
 - ARRANGEMENT OF CONCRETE BARRIER (TEMP.) AT NEW BRIDGE PIER SHALL BE SIMILAR TO DWG. M-606-12 "STYLE CA OR PA AT OBSTRUCTION."

Computer File Information

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Last Modification Date:	5/4/99	Initials:	BKB
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Drawing File Name:	9905-36_PH3		
Acad Ver.	R14 W	Scale:	1:1000 Units: Metric

Sheet Revisions

Colorado Department of Transportation



1050 Lee Hill Drive
Boulder, CO 80302
Phone: (303) 442-5640



IRONGATE 4, SUITE 100
777 S. WADSWORTH BLVD.
LAKEWOOD, COLORADO 80226
(303) 988-4939

As Constructed

No Revisions: *qiajan*
Revised:
Void:

CONSTRUCTION PHASING PLAN

U.S. 36 - PHASE 3

Designer: MDA
Detailer: JHC

Project No./Code

BR 0361-059

12359

Sheet Subst: TRAFFIC

Sheet Sheets: TRS of 21

Sheet Number: 72

1. U.S. 36 SHALL BE CLOSED AT THIS POINT USING SIGNS, TRAFFIC CONES, AND ARROW PANELS SIMILAR TO S-630-1, CASE VII.

FLASHING BEACON (SOLAR)
(SEE S-630-3)

UNIFORM TRAFFIC CONTROL (PROVIDED BY CDOT)

EAST M3-2
600x300



M1-4



M6-1(L)
530x400



MB-1(K)
530x400

330x400

11

2

530x400



Computer File Information				Sheet Revisions	
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Acad Ver.	R14	W	Scale: N.T.S	Units: Metric	

DOT
 DEPARTMENT OF TRANSPORTATION

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IRONGATE 4, SUITE 100
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MULLER

Colorado Department of Transportation

REGION 4—MHG

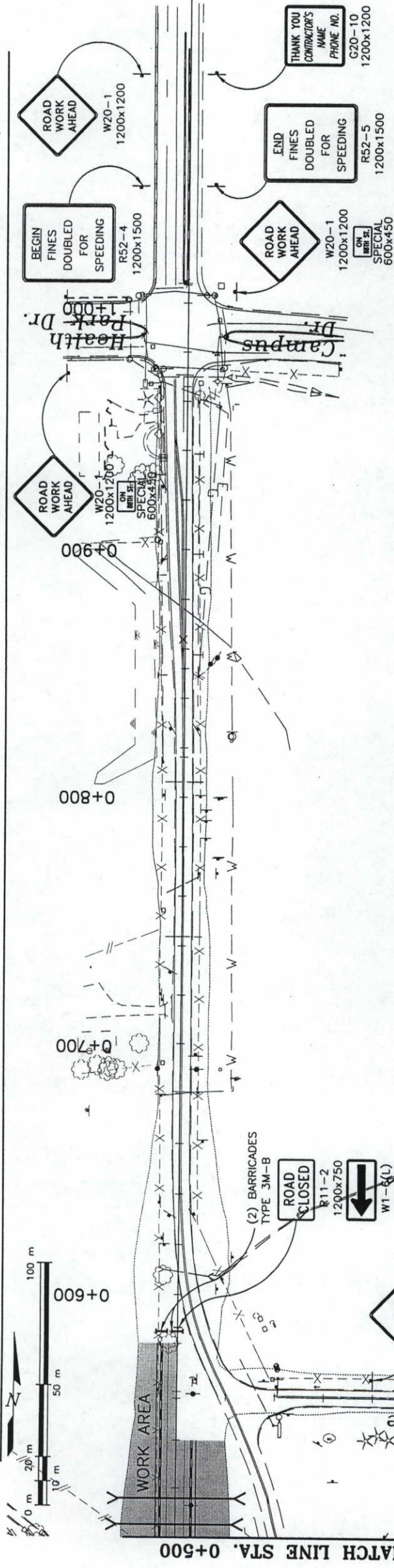
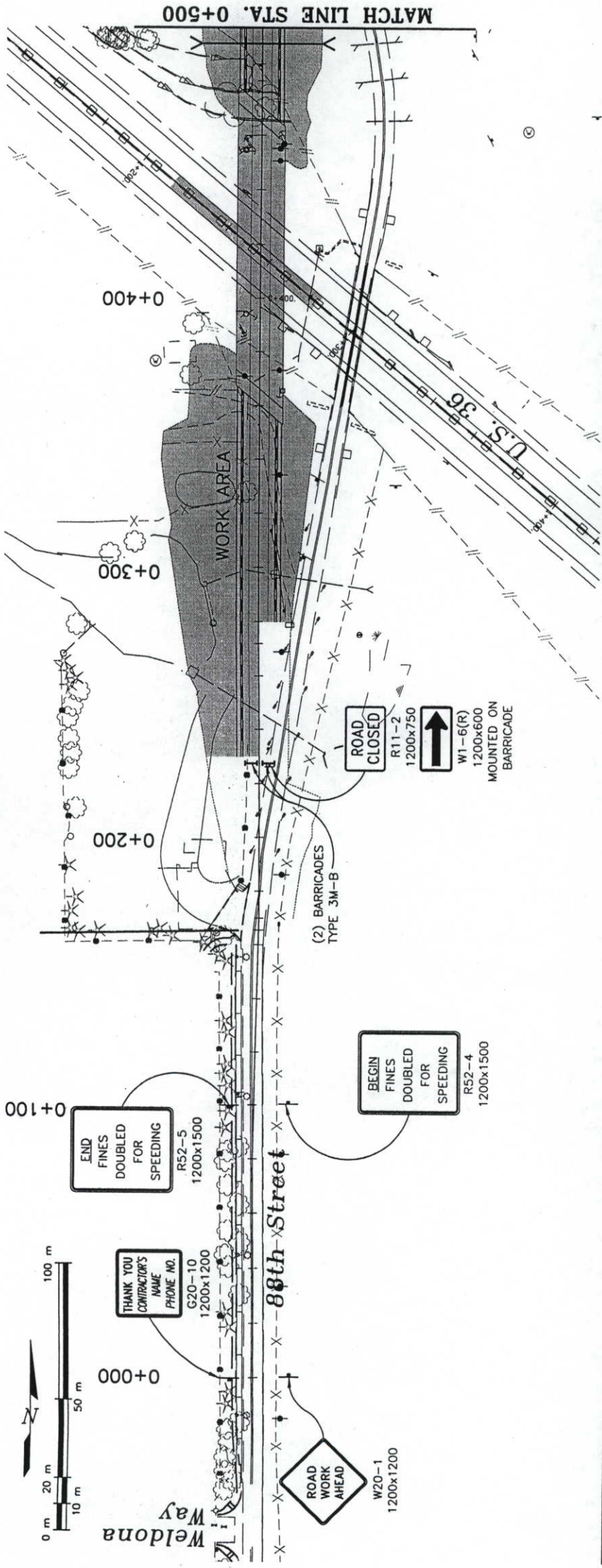
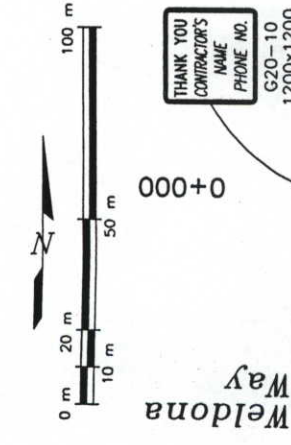
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CONSTRUCTION PHASING PLAN	
U.S. 36 NIGHT WORK DETOUR	
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Detailer:	BKB
Sheet Subset:	TRAFFIC
Subset Sheets:	TR6 of 21

Project No./Code
BR 0361-059
12359
Sheet Number: 73

LEGEND

- FLASHING BEACON (SOLAR)
(SEE S-630-3)
- PORTABLE MESSAGE SIGN PANEL
- CONCRETE BARRIER (TEMP.)
- WORK AREA



Computer File Information

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Sheet Revisions

Colorado Department of Transportation



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IRONGATE 4, SUITE 100
777 S. WADSWORTH BLVD.
LAKEWOOD, COLORADO 80226
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As Constructed

No Revisions:	g/pd/pk/mhg		
Revised:	MDA	Structure	Numbers
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CONSTRUCTION PHASING PLAN
88TH ST. PHASE 1

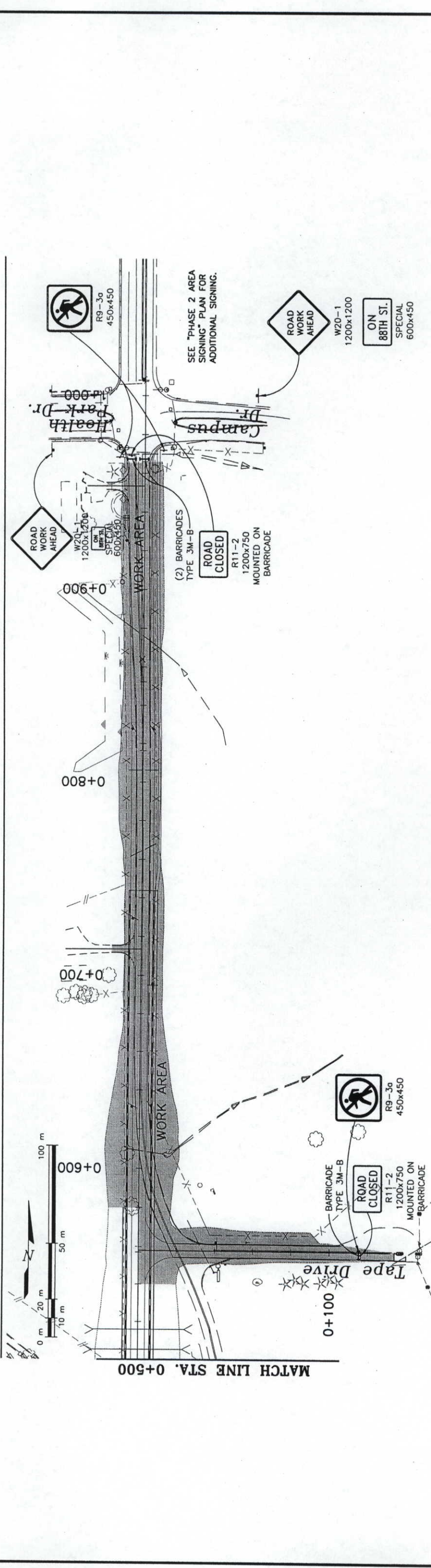
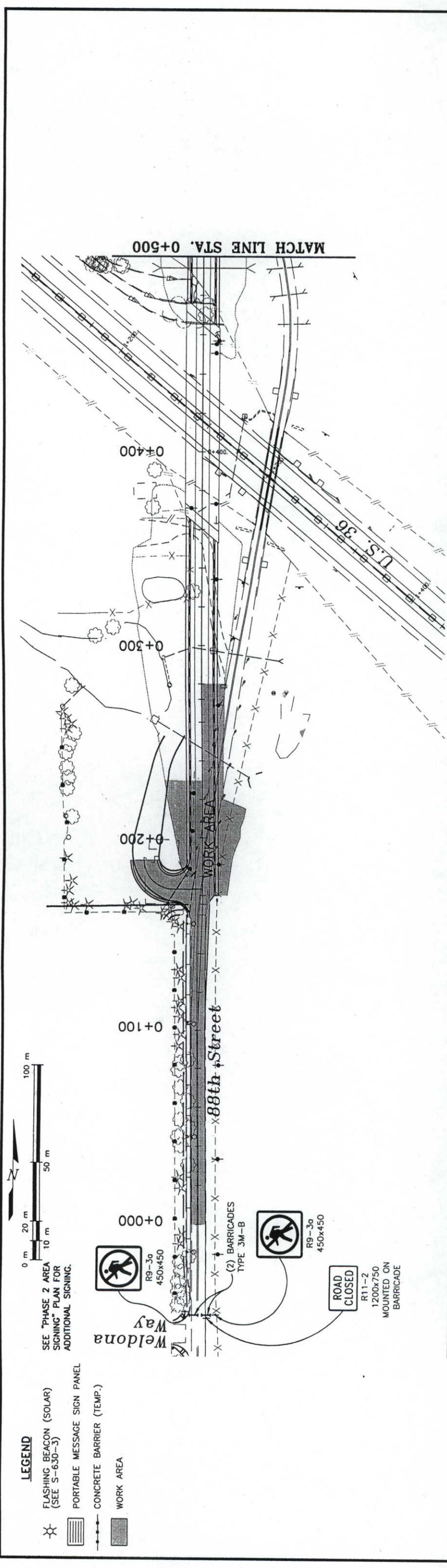
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BR 0361-059

12359

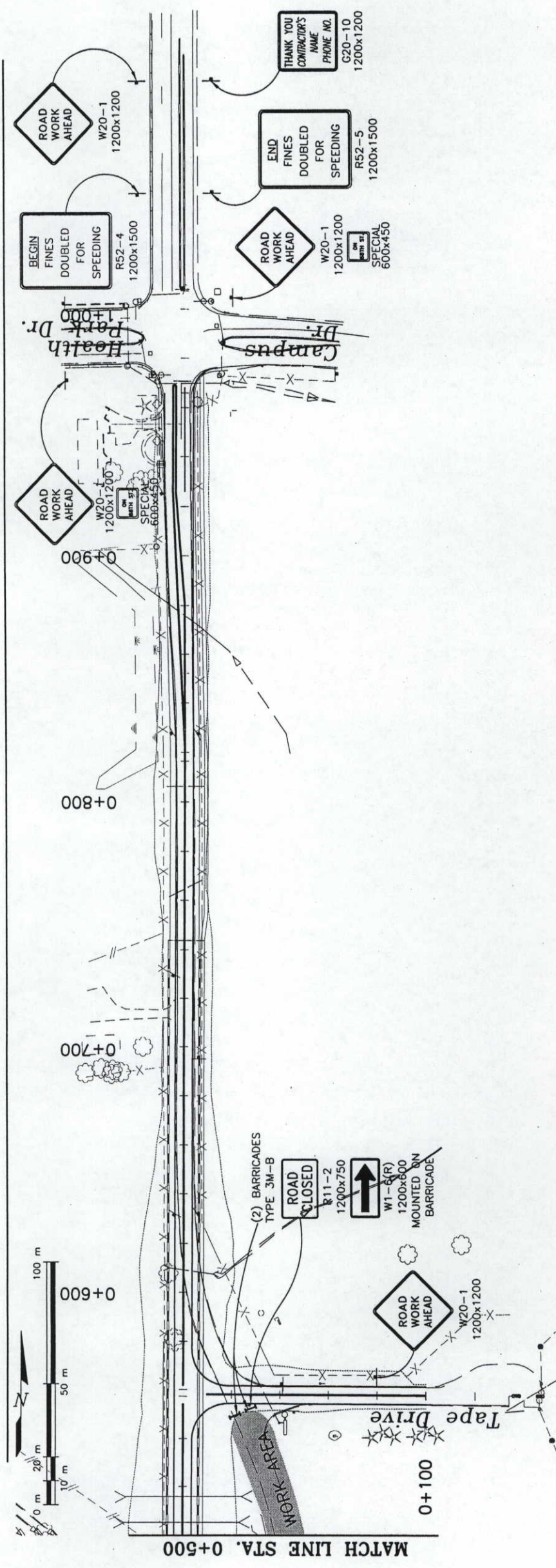
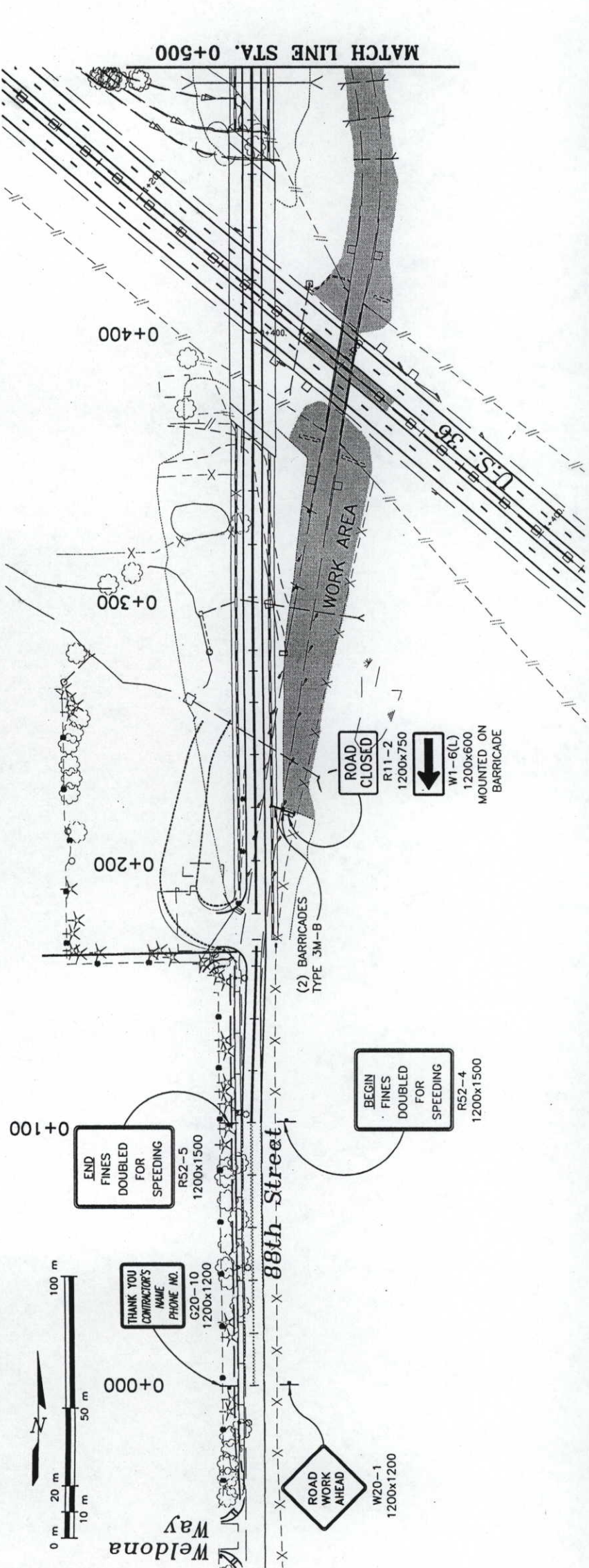
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LEGEND

- FLASHING BEACON (SOLAR)
(SEE S-630-3)
- PORTABLE MESSAGE SIGN PANEL
- CONCRETE BARRIER (TEMP.)
- WORK AREA



Computer File Information				Sheet Revisions				Colorado Department of Transportation				As Constructed				CONSTRUCTION PHASING PLAN				Project No./Code			
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NOTES:
1. THIS PLAN IS INTENDED TO SHOW AREA-WIDE CONSTRUCTION SIGNING REQUIREMENTS AS PART OF THE SPECIFIED CONSTRUCTION PHASE. TRAFFIC CONTROL NOTED ON THIS PLAN SHALL BE PUT IN PLACE PRIOR TO THE BEGINNING OF THE PHASE AND SHALL REMAIN IN PLACE UNTIL THE PHASE IS COMPLETED AS DETERMINED BY THE ENGINEER.

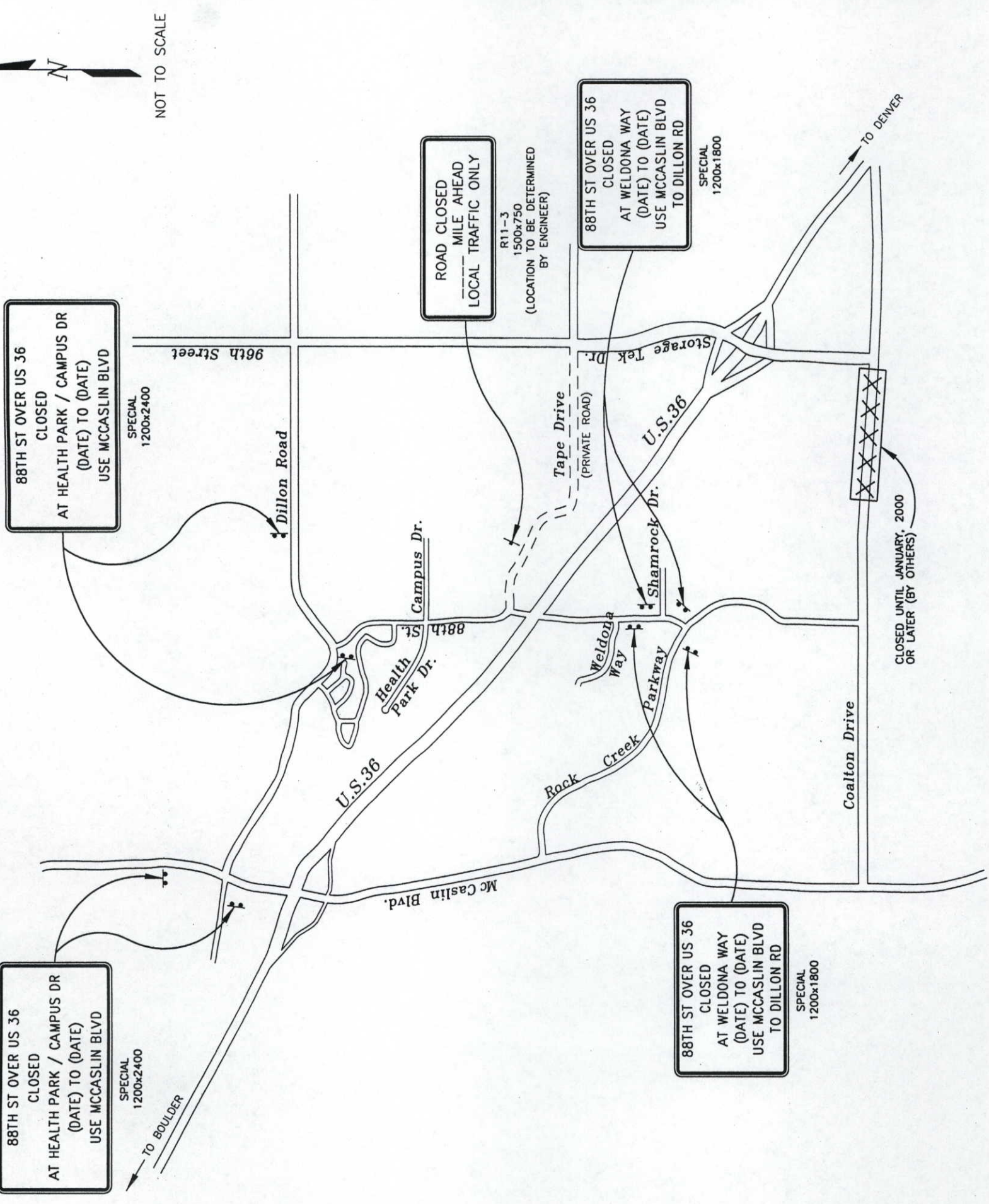
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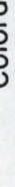


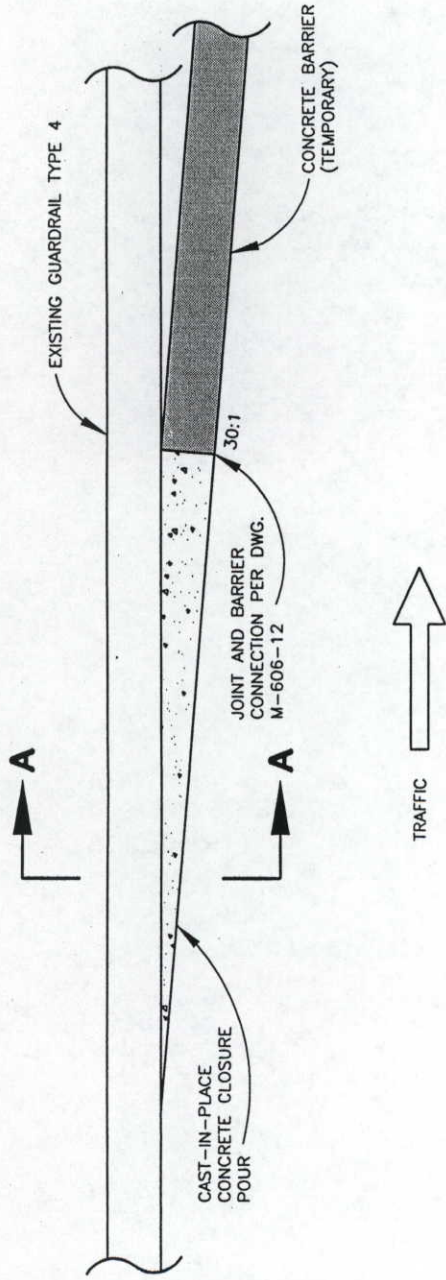
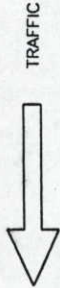
FLASHING BEACON (SOLAR)
(SEE S-630-3)



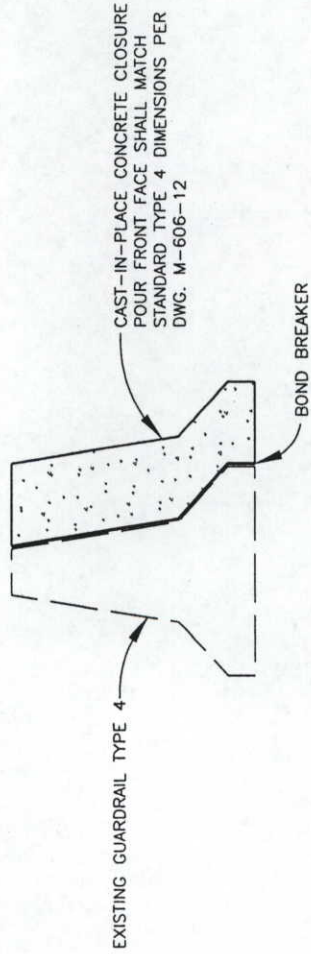
PORTABLE MESSAGE SIGN PANEL



Computer File Information				Sheet Revisions			Colorado Department of Transportation			As Constructed		CONSTRUCTION PHASING PLAN PHASE 2 AREA SIGNING			Project No./Code	
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Last Modification Date:		5/3/99		Initials:		PMK				Revised:						
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PLAN

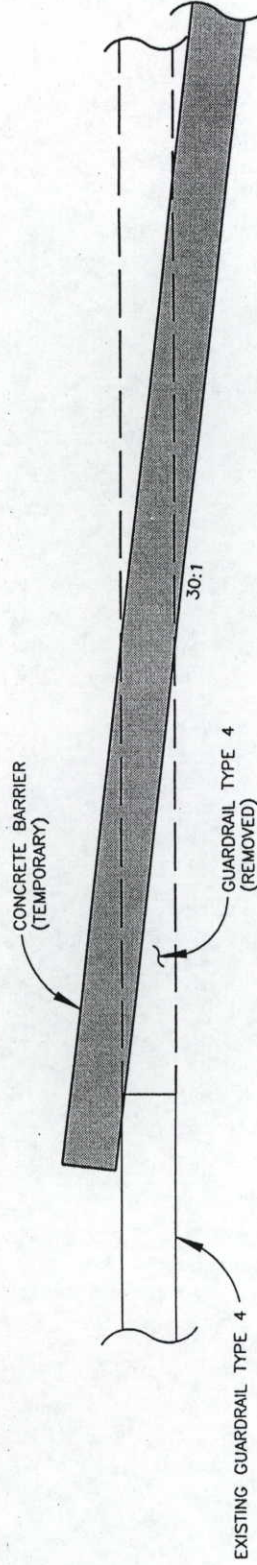


SECTION A-A

NOTES:

1. CONCRETE SHALL BE CLASS D.
2. ALL WORK, MATERIALS, AND INCIDENTALS NECESSARY TO INSTALL THIS CLOSURE POUR AND REMOVE IT AT THE COMPLETION OF THE CONSTRUCTION SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER (TEMPORARY).

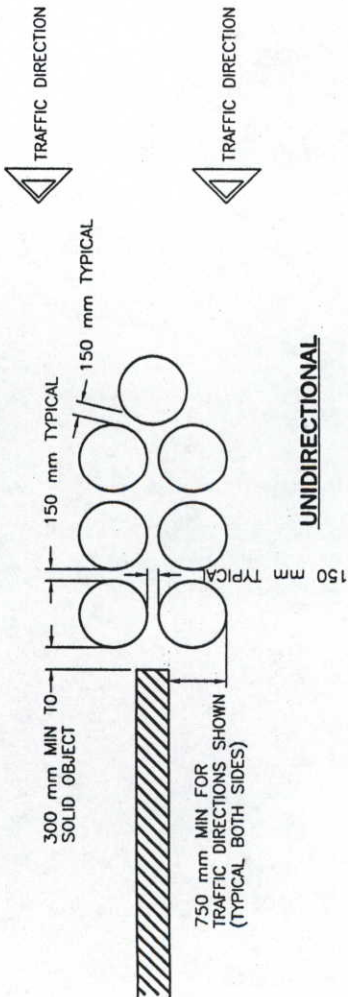
PHASE 1 - U.S. 36 STA. 1+098 AND 1+430
N.T.S



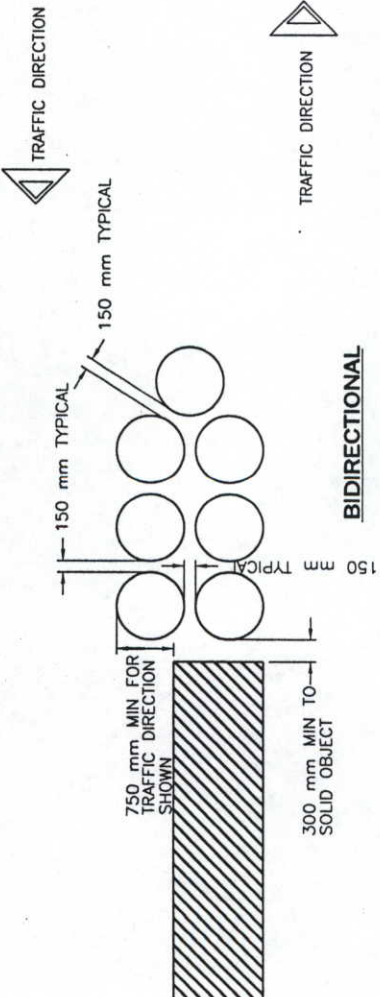
PHASE 2 - U.S. 36 STA. 1+221 AND 1+290
PHASE 3 - U.S. 36 STA. 1+221 AND 1+312
N.T.S

PROTECTING BLUNT END OF CONCRETE BARRIER (TEMPORARY)

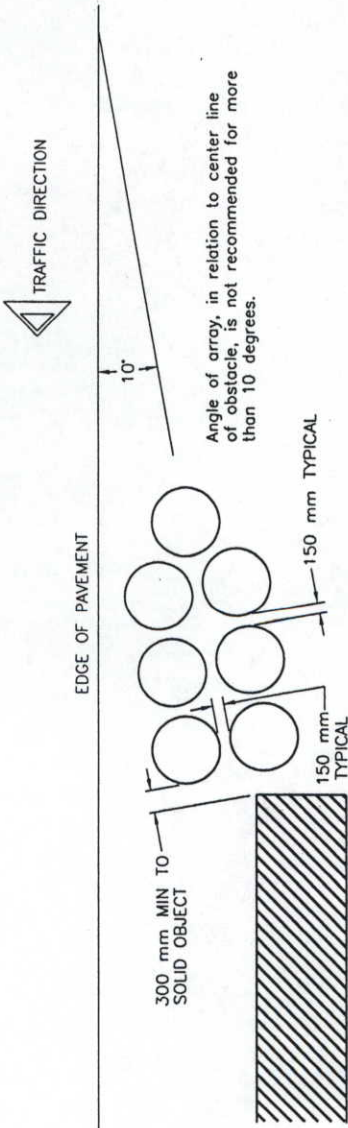
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UNIDIRECTIONAL



BIDIRECTIONAL



ANGLED ARRAY

NOTES:

Freezing Temperatures: In cold climates, sand having moisture content of 3% or more shall be thoroughly mixed with 5% rock salt (by weight) to prevent the sand from freezing into potentially dangerous solid blocks.

Sand shall conform to ASTM C-33 specification or equal. Socked sand will not be allowed.

Modules Placed on Structures: On structures where the vibrations from moving traffic may cause modules to shift, steel or formed-in-place asphaltic concrete half-rings placed on the downhill side of the modules will prevent such movement. Also, nails or bolts through the bottom of the outer container and into the roadway will prevent module movement.

Offset array to avoid impact to the rear module from wrong-way vehicles.

Sloping sites (lateral and longitudinal) shall be a 5% grade maximum.

Curbs and raised islands shall be no more than 100 mm high.

Foundation pads shall be a flat surface of either concrete or asphalt.

Intermixing of brands of modules are approved, as long as modules are federally approved and array meets design criteria.

Single rows of modules are not recommended.

Area between traffic and sand-filled barrels shall be kept clear of debris and snow.

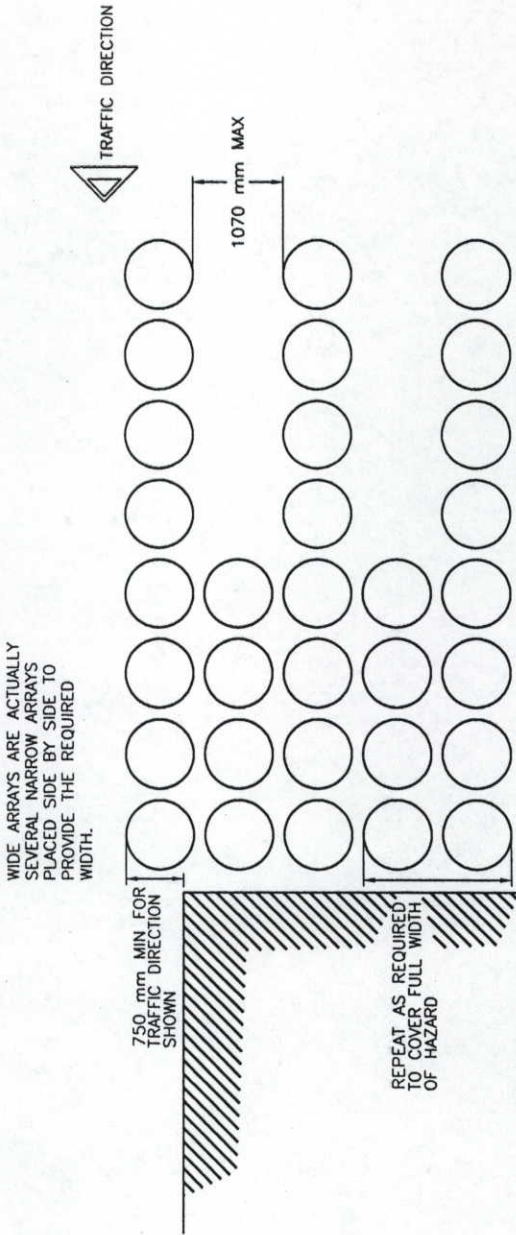
DESIGN VELOCITY: 110 km/hr

ROW	SAND MASS (KG)	820 kg VEHICLE				2000 kg VEHICLE			
		ROW VELOCITY (km/hr)	EXIT VELOCITY (m/s)	DECEL. FORCE (g)	IMPULSE TIME (SECONDS)	ROW VELOCITY (km/hr)	EXIT VELOCITY (m/s)	DECEL. FORCE (g)	IMPULSE TIME (SECONDS)
0	0	110	30.6	8.95	0.034	110	30.6	4.01	0.033
1	90	99.1	27.5	8.95	0.038	105.3	29.2	3.67	0.035
2	90	89.3	24.8	7.27	0.038	100.7	28.0	3.67	0.035
3	90	80.5	22.4	5.90	0.042	96.4	26.8	3.36	0.037
4	180	66.0	18.3	8.35	0.049	88.4	24.6	5.79	0.039
5	360	45.9	12.7	8.86	0.064	74.9	20.8	8.67	0.044
6	640	25.8	7.2	5.86	0.101	56.8	15.8	9.41	0.055
7	1280	10.1	2.8	2.21	0.201	34.6	9.6	7.97	0.079
8	1280	3.9	1.1	0.34	0.515	21.1	5.9	2.96	0.129
9	1280	1.5	0.4	0.05	1.318	12.9	3.6	1.10	0.212
10	1280	0.6	0.2	0.01	3.377	7.8	2.2	0.41	0.347



NOTES:

- 1) Install barrels to manufacturer's specifications.
- 2) Calculations based on sand density of 1600 kg/cu. m.



IMPACT ATTENUATOR (SAND FILLED PLASTIC BARREL) (TEMPORARY)

WIDE HAZARD PROTECTION

Computer File Information			Sheet Revisions		As Constructed		CONSTRUCTION PHASING DETAILS		Project No./Code	
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Acad Ver. R14 W	Scale: 1:1	Units: Metric								

TABULATION OF PAVEMENT MARKINGS

U.S. 36
SUMMARY (ALL CDOT)

SUMMARY OF PAVEMENT MARKING QUANTITIES					
COLOR	EXOXY	PAINT	PREFORMED PLASTIC (TYPE B)	PREFORMED PLASTIC (TYPE B)	REMOVAL OF PAVEMENT MARKINGS
	LINES (L)	LINES (L)	(WORD-SYMBOL) (M2)	(XWALK-STOPLINE) (M2)	
YELLOW	39	29	-	-	(M2)
WHITE	49	58	-	-	-
TOTAL	88	87	-	-	214

88TH STREET
SUMMARY (CDOT)

SUMMARY OF PAVEMENT MARKING QUANTITIES					
COLOR	EOPOXY	PAINT	PREFORMED PLASTIC (TYPE B)	PREFORMED PLASTIC (TYPE B)	REMOVAL OF PAVEMENT MARKINGS
	LINES (L)	LINES (L)	(WORD-SYMBOL) (M ²)	(XWALK-STOPLINE) (M ²)	
YELLOW	-	4-58	-	-	(M ²)
WHITE	-	59	-	4	-
TOTAL	-	4+7	-	4	<u>24</u>

88TH STREET
SUMMARY (LOUISVILLE)

SUMMARY OF PAVEMENT MARKING QUANTITIES					
COLOR	EPOXY LINES (L)	PAINT LINES (L)	PREFORMED PLASTIC (TYPE B) (WORD—SYMBOL) (M2)	PREFORMED PLASTIC (TYPE B) (XWALK—STOPLINE) (M2)	REMOVAL OF PAVEMENT MARKINGS (M2)
	YELLOW	—	—30	—	—
WHITE	—	—20	—5	—4	—
TOTAL	—	—50	—5	—4	—2

PROJECT TOTAL SUMMARY (CDOT)

SUMMARY OF PAVEMENT MARKING QUANTITIES					
COLOR	EOXY	PAINT	PREFORMED PLASTIC (TYPE B)	PREFORMED PLASTIC (TYPE B)	REMOVAL OF PAVEMENT MARKINGS
	LINES (L)	LINES (L)	(WORD-SYMBOL) (M2)	(XWALK-STOPLINE) (M2)	
YELLOW	<u>39</u>	<u>87</u>	-	-	-
WHITE	<u>49</u>	<u>117</u>	-	<u>4</u>	-
TOTAL	<u>88</u>	<u>204</u>	-	<u>4</u>	<u>238</u>

PROJECT TOTAL SUMMARY (LOUISVILLE)

SUMMARY OF PAVEMENT MARKING QUANTITIES					
COLOR	EPoxy	PAINT	PREFORMED PLASTIC (TYPE B)	PREFORMED PLASTIC (TYPE B)	REMOVAL OF PAVEMENT MARKINGS
	Lines (L)	Lines (L)	(WORD-SYMBOL) (M2)	(XWALK-STOPLINE) (M2)	
YELLOW	-	30	-	-	(M2)
WHITE	-	23	5	4	-
TOTAL	-	53	5 10	4 0	2

STATION	LOCATION	PAVEMENT MARKING LINES (Meters)										PAVEMENT SYMBOLS (PLASTIC)		REMOVAL OF PAVEMENT MARKINGS M2
		EDGE (PAINT) YELLOW SOLID 100 mm	EDGE (PAINT) WHITE SOLID 100 mm	EDGE (EPOXY) YELLOW SOLID 100 mm	EDGE (EPOXY) WHITE SOLID 100 mm	LANE (EPOXY) WHITE BROKEN 100 mm	CENTER (PAINT)		STOP (PLASTIC) WHITE SOLID 600 mm	CROSS-WALK (PLASTIC) WHITE SOLID 600 mm				
							DOUBLE YELLOW SOLID 100 mm	YELLOW BROKEN 100 mm						
U.S. 36 (ALL CDOT)														
PHASE 1														
0+085 TO 0+445	LEFT (EDGE LINES)													36
0+085 TO 0+445	LEFT (DASHED LINES)													9
0+085 TO 0+445	RIGHT (EDGE LINES)													36
0+085 TO 0+445	LEFT (DASHED LINES)													9
0+085 TO 0+445	LEFT	360	720											
0+085 TO 0+445	RIGHT	360	720											
FINAL														
0+060 TO 0+545	LEFT (EDGE LINES)													49
0+060 TO 0+545	LEFT (DASHED LINES)													13
0+060 TO 0+545	RIGHT (EDGE LINES)													49
0+060 TO 0+545	RIGHT (DASHED LINES)													13
0+060 TO 0+545	LEFT			485	485	485								
0+060 TO 0+545	RIGHT			485	485	485								
TOTAL LENGTH (METERS)		720	1440	970	970	970	0	0	0	0	0	0	0	—
TOTAL AREA (SQUARE METERS)		72	144	97	97	25	0	0	0	0	0	0	0	214
TOTAL VOLUME (LITERS)		29	58	39	39	10	0	0	0	—	—	—	—	—
88th STREET (CDOT PORTION)														
FINAL							74							24
0+093 TO 0+173	LEFT AND RIGHT		155				552							
0+173 TO 0+744	LEFT AND RIGHT		1105				91			6				
0+003 TO 0+100 (TAPE DRIVE)	LEFT AND RIGHT (INCL. RETURNS)		210											
TOTAL LENGTH (METERS)		0	1470	0	0	0	717	0	0	6	0	0	0	—
TOTAL AREA (SQUARE METERS)		0	147	0	0	0	144	0	0	4	0	0	0	24
TOTAL VOLUME (LITERS)		0	59	0	0	0	58	0	0	—	—	—	—	—
88th STREET (LOUISVILLE PORTION)														
FINAL							77							
0+744 TO 0+821	LEFT AND RIGHT		154				298			7		2	1	
0+821 TO 0+969	LEFT AND RIGHT		290											
0+969 TO 0+980	RIGHT (RETURN)		16											2
TOTAL LENGTH (METERS)		0	460	0	0	0	375	0	0	7	0	—	—	—
TOTAL AREA (SQUARE METERS)		0	46	0	0	0	75	0	0	4	0	2.9	2.1	2
TOTAL VOLUME (LITERS)		0	19	0	0	0	30	0	0	—	—	—	—	—

① PAVEMENT MARKINGS SHALL BE REMOVED BY A NON-SCARRING METHOD ACCEPTABLE TO THE ENGINEER. PROPERLY ACCOMPLISHED, SANDBLASTING, HIGH PRESSURE WATER, AND CHEMICAL REMOVAL PROCESSES HAVE BEEN FOUND TO BE ACCEPTABLE NON-SCARRING METHODS ON PREVIOUS WORK. PHYSICAL GRINDING OF PAVEMENT SURFACE WITH A MECHANICAL GRINDER WILL NOT BE ALLOWED.

② TEMPORARY PAVEMENT MARKINGS SHALL BE MAINTAINED WITH A MINIMUM 100 MILLICANDELA PER SQUARE METER LUMINANCE (BRIGHTNESS) REFLECTIVITY AT ALL TIMES. PAVEMENT MARKING PAINT MEETING THE ABOVE LUMINANCE REQUIREMENT WILL BE ALLOWED FOR THE DETOUR PHASES ONLY. ALL FINAL PAVEMENT MARKINGS "ON U.S. 36" SHALL BE EPOXY.

Computer File Information		Sheet Revisions		Colorado Department of Transportation		As Constructed		TABULATION OF PAVEMENT MARKING QUANTITIES		Project No./Code	
Creation Date:	2/11/99	Initials:	PMK				No Revisions:			BR 0361-059	
Last Modification Date:	5/3/99	Initials:	PMK								
Full Path:							Revised:	9/22/00 MHR	Designer:	MDA	12359
Drawing File Name:									Detailer:	BKB	
Acad Ver. R14 W	Scale: 1:1						Void:		Sheet Subset:	TRAFFIC	Sheet Number: 80
									Subset Sheets:	TR 13 of 21	

TABULATION OF SIGNS

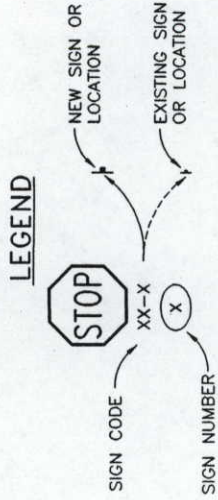
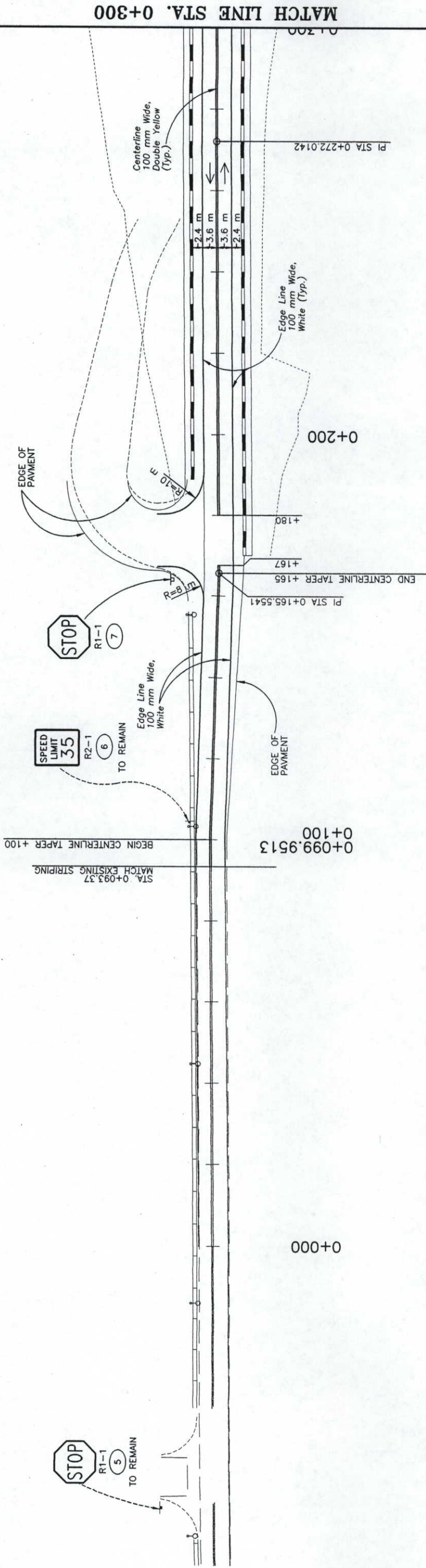
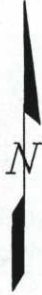
SIGN NO.	SIGN CODE	STATION	SIGN PANEL SIZE (mm)	BACK-GROUND COLOR	REMOVE		RESET		STEEL POST 50 mm (ROUND) (M)	STEEL SIGN POST 65 mm (SLIP BASE)		SIGN PANEL (M2)		REMARKS	
					GROUND SIGN (EACH)	SIGN PANEL (EACH)	GROUND SIGN (EACH)	SIGN PANEL (EACH)		P1	P2	CLASS I	CLASS II		
CDOT PORTION															
U.S. 36															
1	W12-2	1+010 LT.			1										
2	SPECIAL	1+368 LT.												TO REMAIN	
3	SPECIAL	1+470 RT.												TO REMAIN	
4	W12-2	1+597 RT.			1										
	R5-6	RAMP			1	1						0.7			
SUBTOTAL					-23	0	1	0	0	0	0	0	0		
88TH STREET															
5	R1-1														
6	R2-1	0+104 LT.												TO REMAIN	
7	R1-1	0+163 LT.	750x750	RED					3.53			0.56		TO REMAIN	
8	R2-1 (35)	0+310 LT.				1									
9	SPECIAL	0+340 LT.				1								"TOWN OF SUPERIOR" SIGN	
10	R2-1 (35)	0+500 RT.	600x750	WHITE					3.53			0.45			
11	SPECIAL	0+550 RT.				+								"TAPE DRIVE" SIGN	
12	SPECIAL	0+552 RT.				+								"PRIVATE ROAD" SIGN	
13	SPECIAL	0+567 RT.				+								"STOP" SIGN	
14	SPECIAL	0+569 RT.				+								"STORAGE TEK" SIGN	
15	R7-1	0+628 LT.				+									
16	R7-1	0+628 RT.				1									
17	R2-1	0+689 RT.				+								MOUNTED ON POWER POLE	
18	S3-1	0+695 RT.					+								
19	R7-1	0+730 LT.					+								
SUBTOTAL					0	1	10	2	0	0	0	0	0		
TOTAL (CDOT PORTION)					23	1	10	2	0	0	0	0	0		

LOUISVILLE PORTION																
88TH STREET																
20	R7-107	0+826 LT.					+									
21	R7-1	0+826 RT.					+									
22	R7-107	0+925 LT.					+									
23	R2-1	0+970 RT.														TO REMAIN
24	R4-7	0+988 LT.														TO REMAIN
25	R4-7	0+988 RT.														TO REMAIN
26	R4-7	1+008 LT.														TO REMAIN
27	R2-1	1+003 LT.														TO REMAIN
28	R3-7 (R)	1+020 LT.														TO REMAIN
29	SPECIAL	1+023 RT.														"THE RIDE" TO REMAIN
SUBTOTAL					0	0	+	3	0	0	0	0	0	0	0	0
TOTAL (LOUISVILLE PORTION)					0	0	+	3	0	0	0	0	0	0	0	0

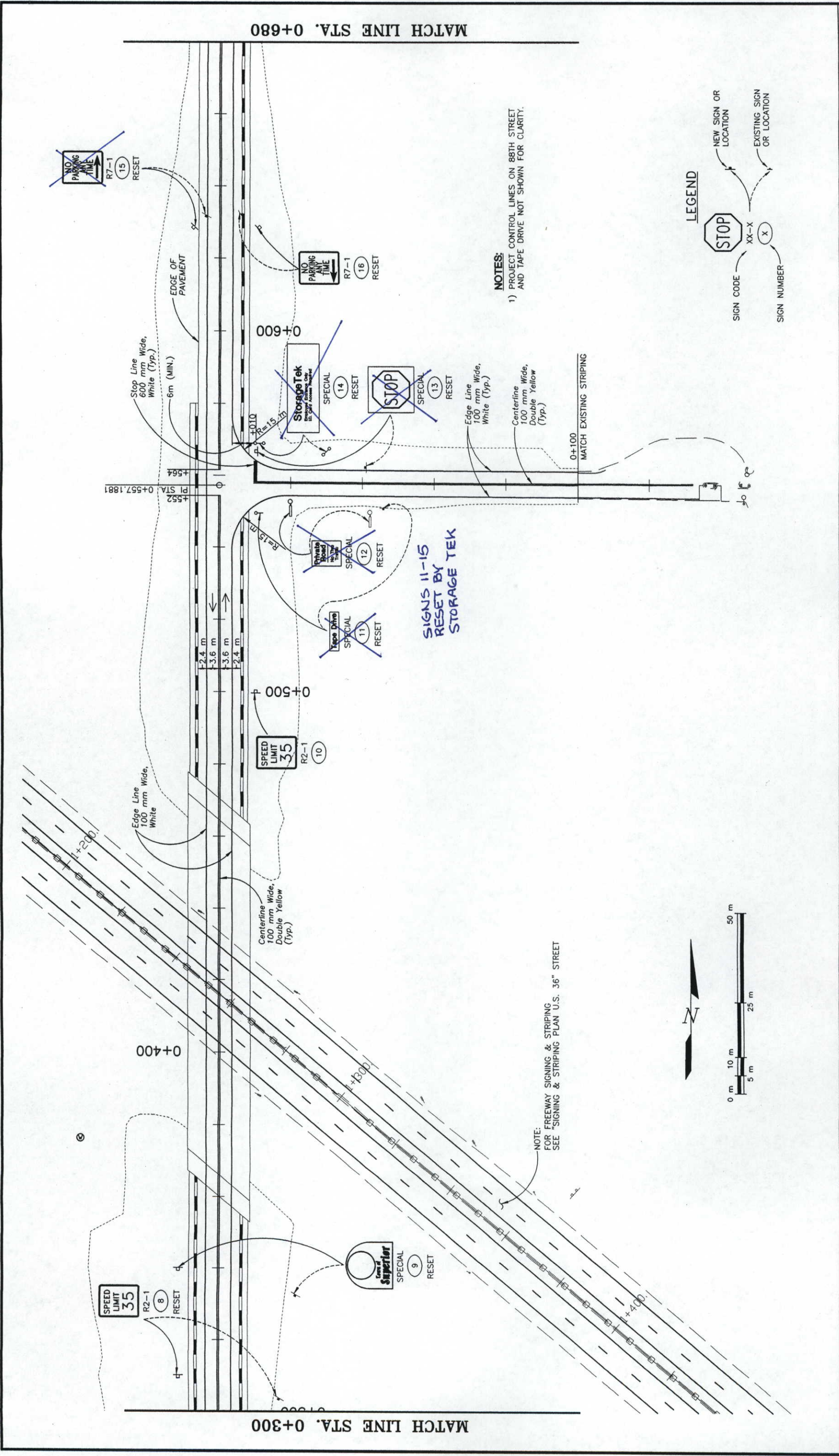
NOTE:
① P1 AND P2 SIGN POSTS SHALL BE GALVANIZED.

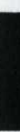
Computer File Information				Sheet Revisions				Colorado Department of Transportation				As Constructed		TABULATION OF SIGNS			Project No./Code	
Creation Date:	2/11/99	Initials:	PMK					1050 Lee Hill Drive Boulder, CO 80302 Phone: (303) 442-5640 IRONGATE 4, SUITE 100 777 S. WADSWORTH BLVD. LAKEWOOD, COLORADO 80226 (303) 988-4939 MULLER				No Revisions:		Designer: MDA Structure Numbers PMK			BR 0361-059	
Last Modification Date:	5/3/99	Initials:	PMK											12359				
Full Path:	S:\9905																	
Drawing File Name:	9905-TAB4																	
Acad Ver.	R14	W	Scale: 1:1	Units: Metric				Sheet Subst: TRAFFIC				Subset Sheets: TR14 of 21				Sheet Number: 81		

NOTES:
1) PROJECT CONTROL LINE ON 88TH STREET
NOT SHOWN FOR CLARITY



Computer File Information			Sheet Revisions			Colorado Department of Transportation			As Constructed		SIGNING AND STRIPING PLAN			Project No./Code			
Creation Date:		2/10/99	Initials:	PMK		 1050 Lee Hill Drive Boulder, CO 80302 Phone: (303) 442-5640 IRONGATE 4, SUITE 100 777 S. WADSWORTH BLVD. LAKEWOOD, COLORADO 80226 (303) 988-4939  REGION 4-MHG			No Revisions: <u>9/22/00/MHG</u>		88th STREET			BR 0361-059			
Last Modification Date:		5/3/99	Initials:	PMK	Revised:				12359								
Full Path:		S:\9905			Designer:				MDA		Structure Numbers		12359				
Drawing File Name:		9905-STRP			Detailer:				PMK								
Acad Ver. R14 W		Scale: 1:1000		Units: Metric					Void:				Sheet Subst:		TRAFFIC		Subset Sheets: TR16 of 21



Computer File Information			Sheet Revisions			Colorado Department of Transportation			As Constructed		SIGNING AND STRIPING PLAN 88th STREET		Project No./Code	
Creation Date:	2/10/99	Initials: PMK				 REGION 4-MHG	 IRONGATE 4, SUITE 100 777 S. WADSWORTH BLVD. LAKEWOOD, COLORADO 80226 Phone: (303) 442-5640	No Revisions:			BR 0361-059			
Last Modification Date:	5/3/99	Initials: PMK						Revised:		9/14/2000	MDA	12359		
Full Path:	S:\9905							Void:			Structure Numbers			
Drawing File Name:	9905-STRP										Detailer:			
Acad Ver. R14 W	Scale: 1:1000	Units: Metric									Sheet Subset:	TRAFFIC	Subset Sheets:	TR17 of 21



3) SEE "PAVEMENT MARKING WORDS AND SYMBOLS" SHEET FOR ARROW AND "ONLY" DIMENSIONS.

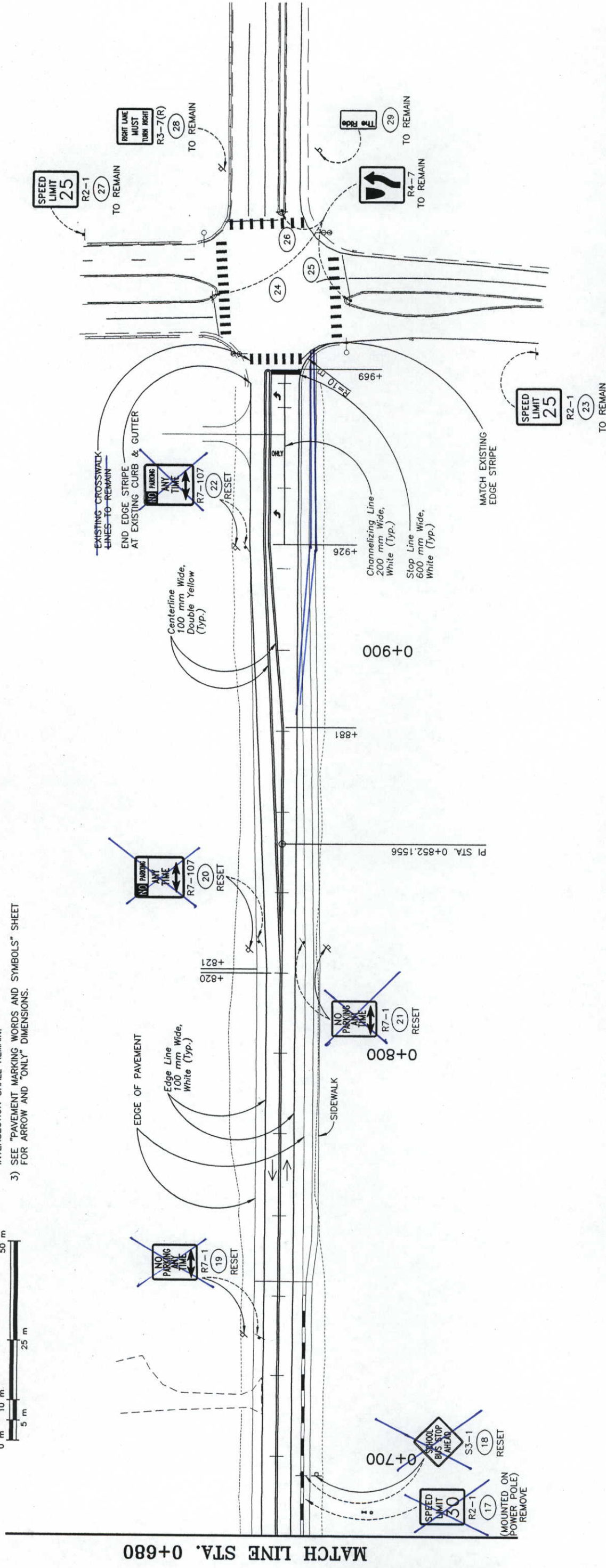
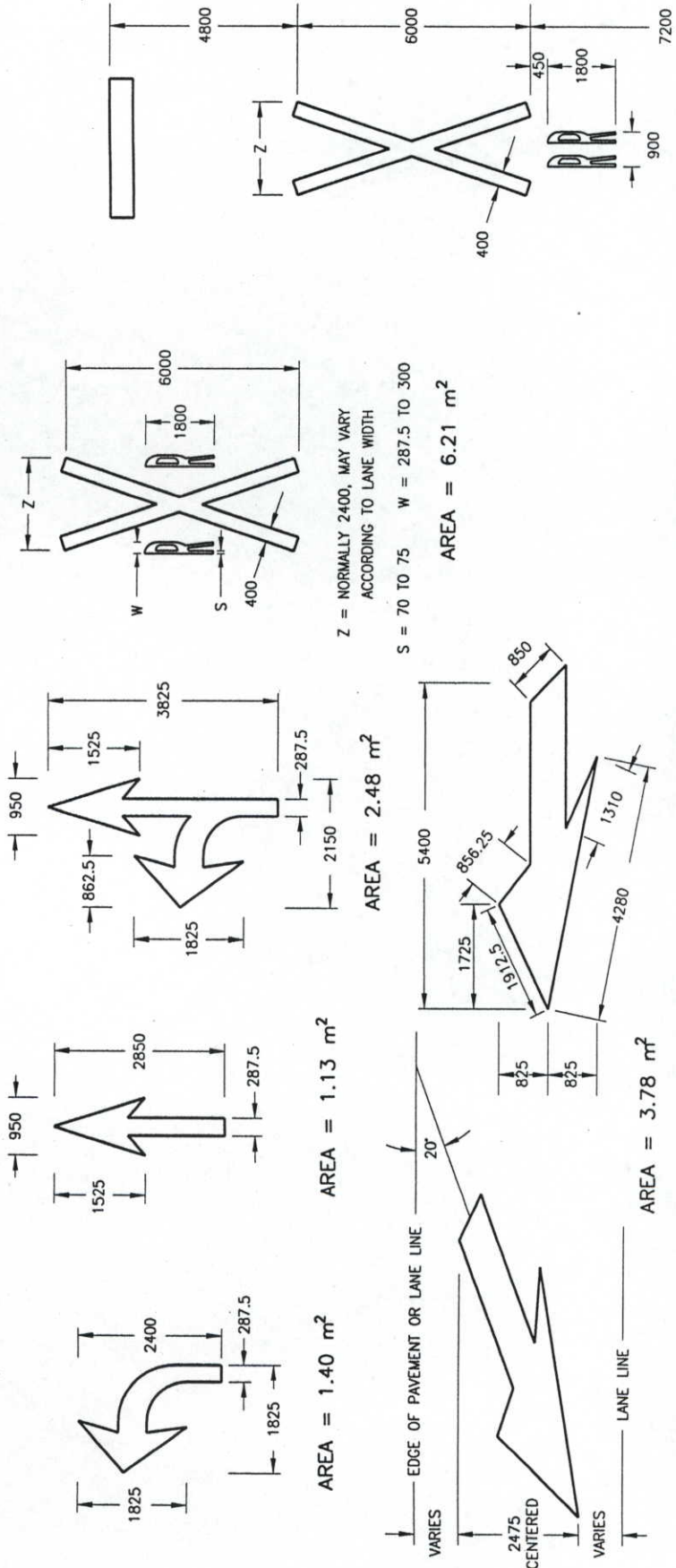


Diagram illustrating the relationship between a STOP sign, a sign code (XX-X), and a sign number (X). The STOP sign is linked to "NEW SIGN OR LOCATION" and "EXISTING SIGN OR LOCATION". The sign code (XX-X) is linked to "SIGN CODE". The sign number (X) is linked to "SIGN NUMBER".

Computer File Information				Sheet Revisions		Colorado Department of Transportation				As Constructed		SIGNING AND STRIPING PLAN 88th STREET				Project No./Code	
Creation Date:	2/10/99	Initials:	PMK			No Revisions:											
Last Modification Date:	5/3/99	Initials:	PMK													BR 0361-059	
Full Path:			S:\9905													12359	
Drawing File Name:			9905-STRP														
Acad Ver. R14 W	Scale: 1:1000	Units: Metric															
																Sheet Number: 85	



DESIGNATED PAYMENT AREAS

FOR THE FOLLOWING H, W, AND S DIMENSIONS PAY:

H = 1200mm WORDS

BIKE - 0.50 m² LANE - 0.54 m²

ONLY - 0.54 m² XING - 0.45 m²

H = 2400mm WORDS

STOP - 2.07 m² XING - 1.80 m²

ONLY - 2.03 m² LANE - 2.03 m²

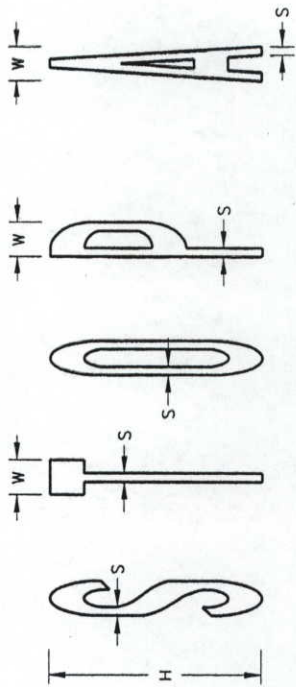
AHEAD - 2.61 m² BIKE - 1.89 m²

BUS - 1.67 m² HWY - 1.49 m²

THRU - 1.98 m² SCHOOL(1L) - 2.97 m²

PED - 1.58 m² SCHOOL(2L) - 7.65 m²

TYPICAL LETTER MEASUREMENTS



H = HEIGHT H = 2400 H = 1200

W = WIDTH W = 385 TO 400 W = 192.5 TO 200

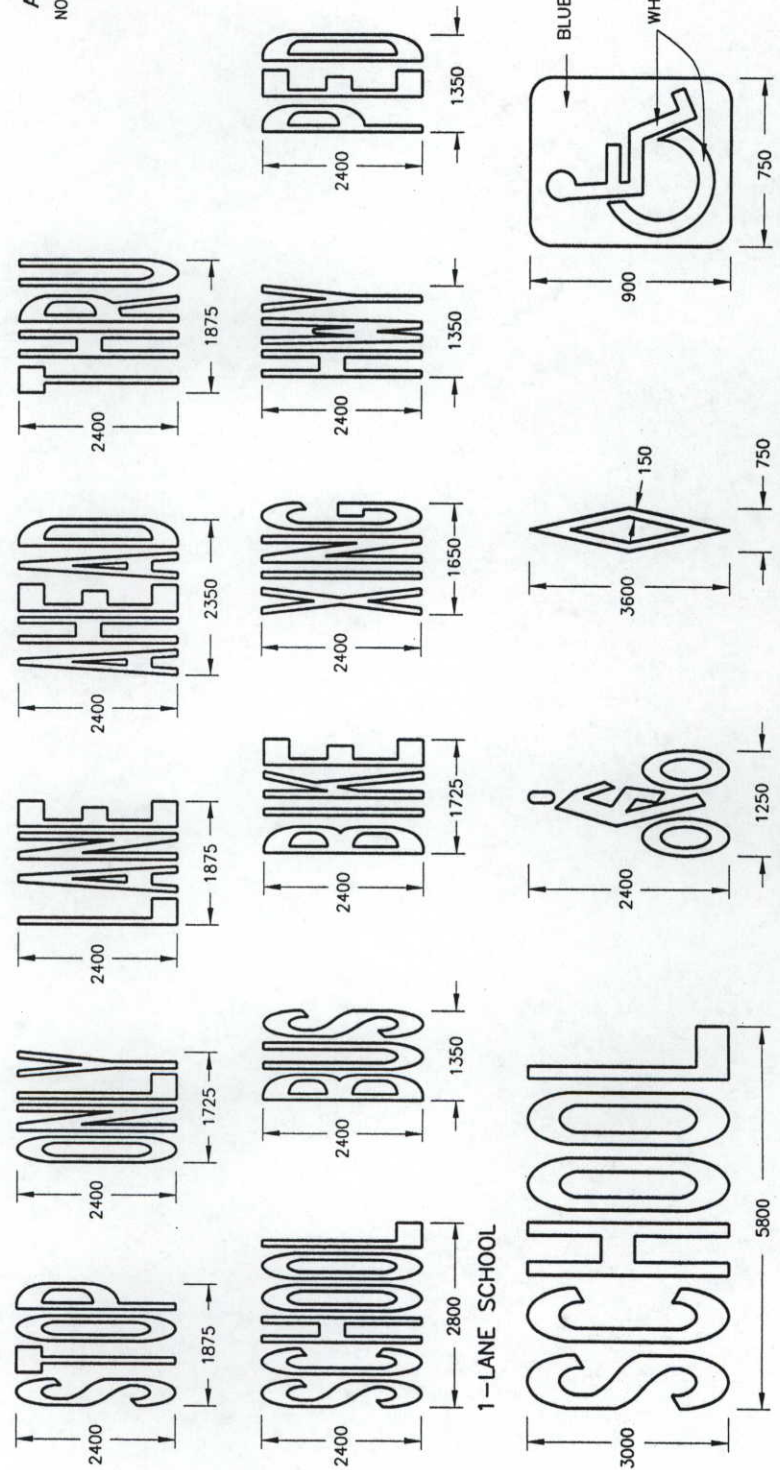
S = STROKE S = 95 TO 100 S = 47.5 TO 50

NOTES

IF HEIGHT IS INCREASED OR DECREASED THEN ALL MEASUREMENTS CHANGE PROPORTIONATELY. EXAMPLE: "H" measurement for STOP is reduced to 1200 from 2400 then m² = 0.52 (1/4 of 2.07 m²).

PAVEMENT WORD AND SYMBOL MARKINGS, TRANSVERSE AND LONGITUDINAL (CONTINENTAL) CROSSWALK LINES, AND STOP LINES WILL BE PAID FOR IN SQUARE METERS USING THEIR SPECIFIC BID ITEMS.

DIMENSIONS ARE MILLIMETERS (mm) UNLESS OTHERWISE NOTED.



STROKE = 200
2-LANE SCHOOL

PAVEMENT MARKING WORDS AND SYMBOLS

Computer File Information			Sheet Revisions		Colorado Department of Transportation		As Constructed		PAVEMENT MARKING WORDS AND SYMBOLS		Project No./Code	
Creation Date:	7/9/96	Initials: SJH			 1050 Lee Hill Drive Boulder, CO 80302 Phone: (303) 442-5640  IRONGATE 4, SUITE 100 777 S. WADSWORTH BLVD. LAKEWOOD, COLORADO 80226 (303) 988-4839 REGION 4-MHG	No Revisions: <u>9/22/2000/mjg</u>		PAVEMENT MARKING WORDS AND SYMBOLS		BR 0361-059		
Last Modification Date:	7/9/96	Initials: SJH	Revised:			12359						
Full Path:	S:\9905					Designer:	FJB	Structure Numbers	Sheet Number: <u>86</u>			
Drawing File Name:	9905-PVMT					Detailer:	SJH					
Acad Ver. R14 W	Scale:	Units: Metric				Sheet Subset:	TRAFFIC	Subst Sheets:	TR19 of 21			

TUBULAR STEEL POSTS
(SINGLE OR DOUBLE POST)

AS CONSTRUCTED

NO REVISIONS

REVISED

VOID

FED. ROAD REGION

DIVISION

PROJ. NO.

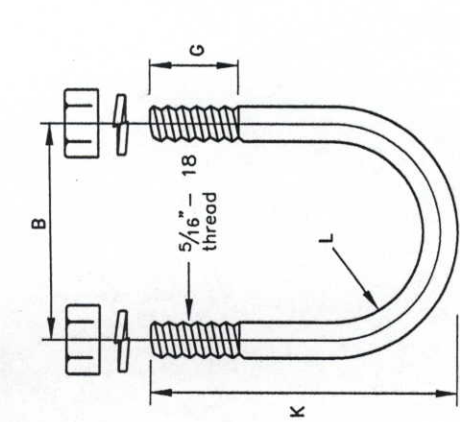
SHEET NO.

87

SIGNPOST SELECTION GUIDE
(FOR 2.1 m MOUNTING HEIGHT)

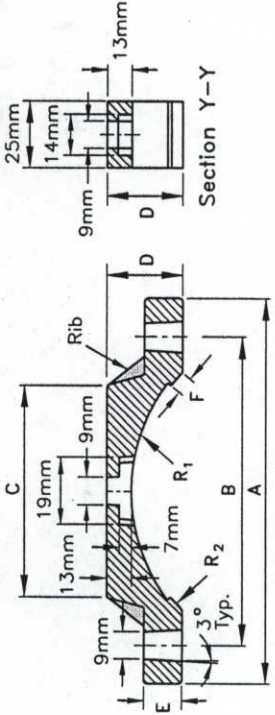
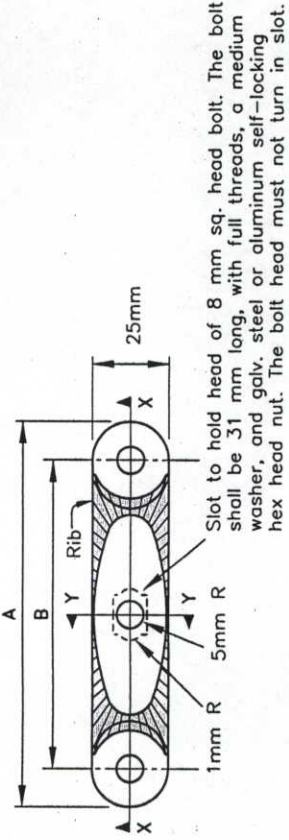
SIGN HEIGHT (m)		SIGN WIDTH (mm)									
		300	600	750	900	1200	1500	1800	2100	2400	2700
300	P	P	P	P	P	P					
600	P	P	P	P	P	P	P	P1 2-P	P1 2-P	P1 2-P	P1
750	P	P	P	P	P	P	P	P1 2-P	P1 2-P	P2	P2
900	P	P	P	P	P	P1 2-P	P1 2-P	P2	2-P1	2-P1	2-P1
1200				P1 2-P	P1 2-P	P1 2-P	P2	2-P1	2-P1	2-P1	2-P2
1500					P2						
1800						2-P1	2-P1	2-P2			
2100							2-P2				

Sizes not used.



U-BOLT

U-bolt to be made in accordance with standard manufacturing procedure. 7 mm dia. stock is permissible. American standard regular semi-finished hex. nuts and spring lockwashers.



PIPE CLAMP CASTING

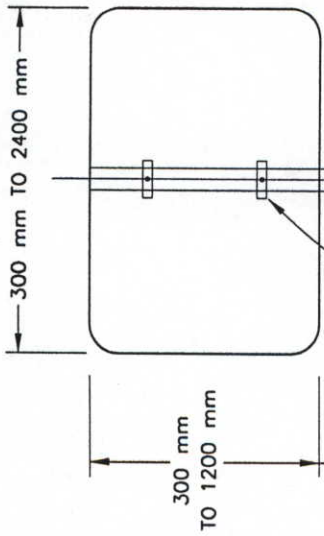
Pipe clamp casting shall be ASTM B26 or B108 aluminum alloy A444.0-T4 or 356.0-F. All sign mounting clamp parts not made from aluminum shall be galvanized steel in conformance with ASTM A153 or stainless steel.

DIMENSIONS FOR MOUNTING CLAMP

STANDARD PIPE SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
50 mm	94	69	38	28	13	5	25	67	30	31	30	37	38	36												
63 mm	106	81	50	31	13	6	25	80	37	38	36															

THE POST CAN BE PRE-PUNCHED WITH 9 mm HOLES AND THE SIGN MOUNTED DIRECTLY TO THE POST, OR AN APPROVED MOUNTING CLAMP MAY BE USED TO MOUNT THE SIGN TO THE POST. IF THE POST IS PRE-PUNCHED, THE HOLES SHALL BE SPACED THE FOLLOWING DISTANCES FROM THE TOP:

25 mm, 75 mm, 250 mm, 400 mm, 525 mm, 575 mm, 600 mm, 675 mm, 825mm, 925 mm, 975 mm, and 1125 mm

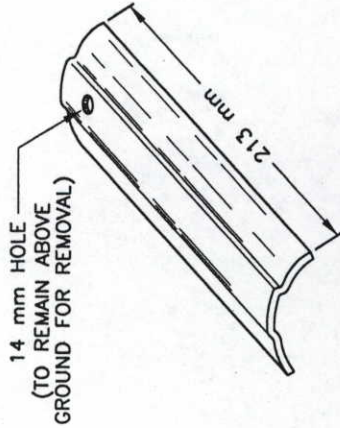


SIGN MOUNTING CLAMP

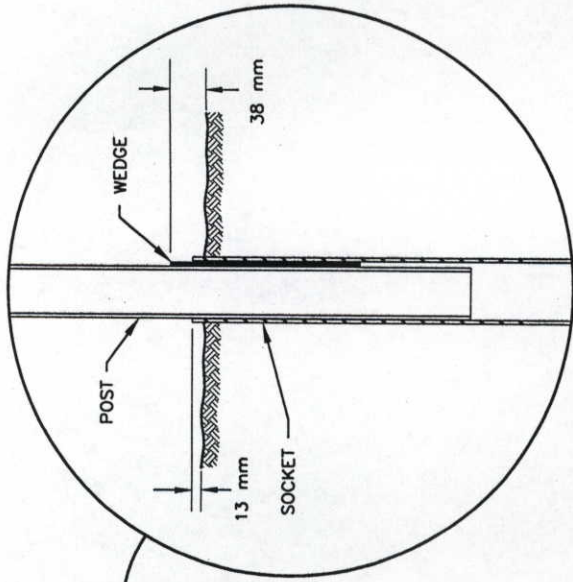
SIGN POST (P) 59 mm O.D. PIPE (1.625 mm, 2 mm OR 2.375 mm WALL THICKNESS).

COLOR SHALL BE BROWN OR YELLOW AS SUPPLIED, OR AS SHOWN IN THE PLANS.

2.1m MIN. 3m MAX.



POST WEDGE
3.1 mm GALVANIZED STEEL
ASTM A-526 G-90



TUBULAR SOCKET
2.7 mm GALVANIZED STEEL
ASTM - 787

CHART NOTES:

- 1- Wind Load Design = 129 KPH.
- 2- Post mounting height from ground to bottom of sign panel = 2.1 meters.
- 3- Minimum distance between 2 posts shall be 0.75 meters, maximum distance shall be 2.4 meters.
- 4- Maximum post height to the bottom of the sign panel shall be 3 meters.
- 5- If the sign mounting height is more than 2.1 meters, the selected sign area must be increased by 20% for each 0.3 meter of additional height. If the mounting height is 2.4 meters, multiply the area X 1.2. If the mounting height is 2.7 meters, multiply the area X 1.4. If the mounting height is 3 meters, multiply the area X 1.6. Then find an approximate sign size from the chart that is similar in area.

For example: A 1200 mm X 900 mm (WxH) sign, with a 2.1 meter mounting height uses 2P (2 Posts) OR P1 (1 Post with Slipbase).

If mounting height is 3 meters, then selected area is equal to: 1.6 X 1.08 = 1.728 m², rounded up to the next higher number or 1.8 m² (1200 W x 1500 H), use P2.

GENERAL NOTES:

1. SIGN POSTS SHALL BE COLD FORMED STEEL WITH A MINIMUM YIELD STRENGTH OF 380 MPa.
2. MANUFACTURER'S INSTRUCTIONS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO INSTALLATION.
3. SIGNS AND POSTS AS SHOWN IN THE PLANS SHALL INCLUDE ALL HARDWARE NECESSARY FOR COMPLETE INSTALLATION. POST TYPE P SHALL BE PAID FOR AS 614, STEEL SIGN POST (50 mm ROUND), METERS.
4. FOR BACKING ZEE DETAILS, SEE STANDARD PLAN S-614-3 (CLASS II GROUND SIGN INSTALLATIONS).

COLORADO

DEPARTMENT OF TRANSPORTATION

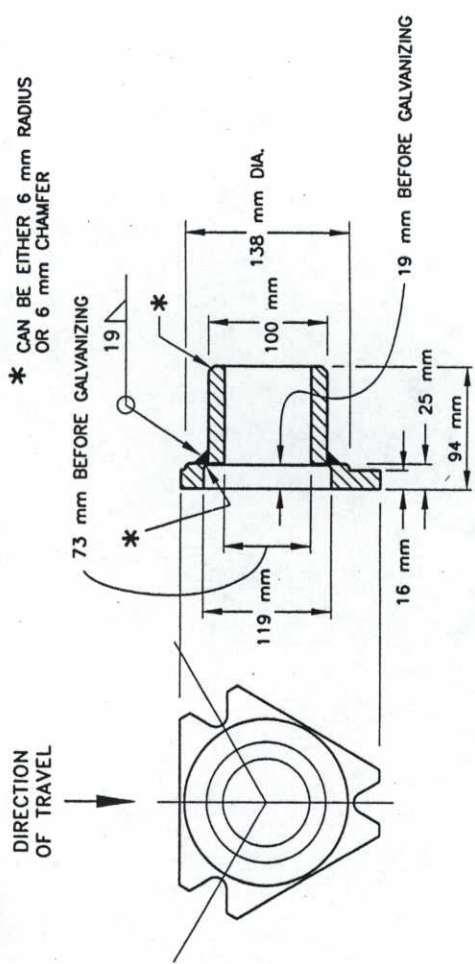
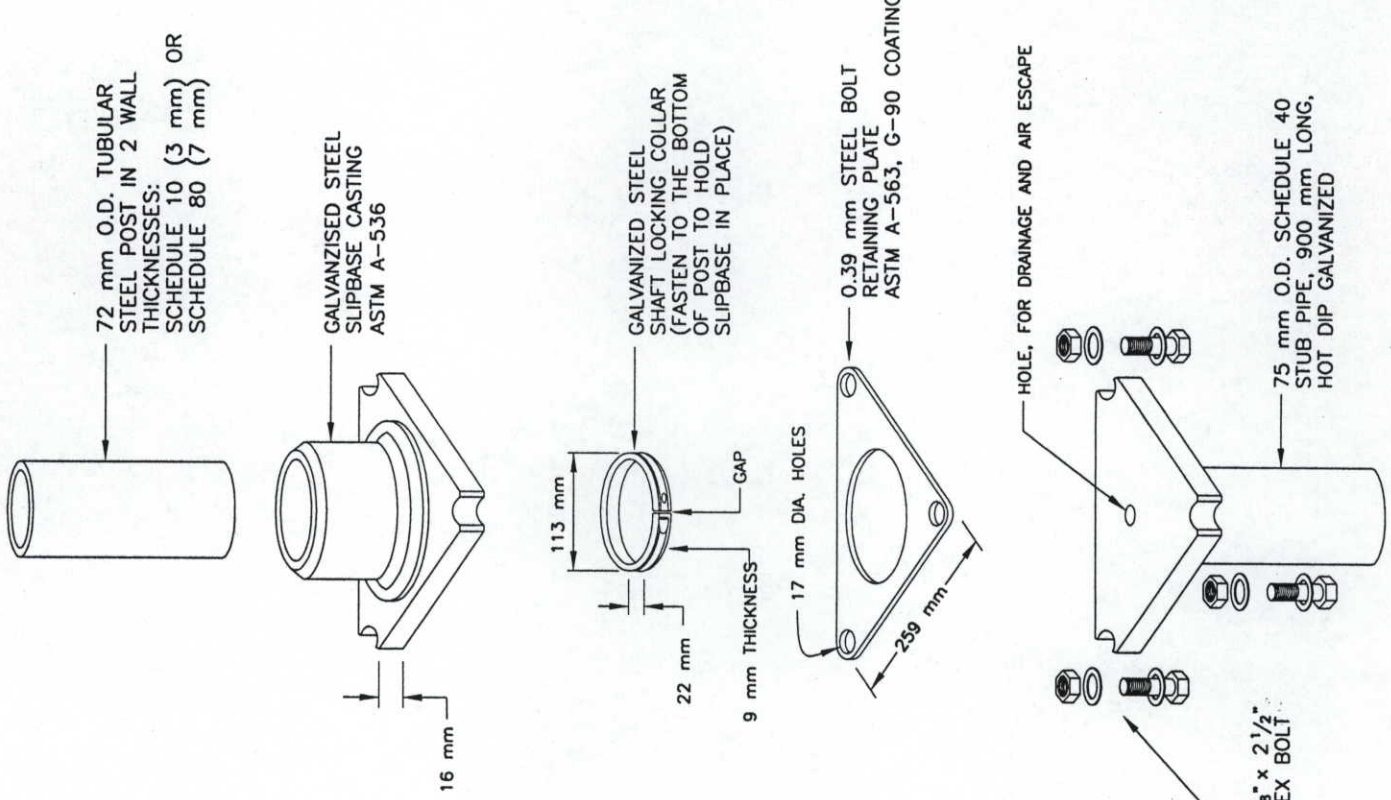
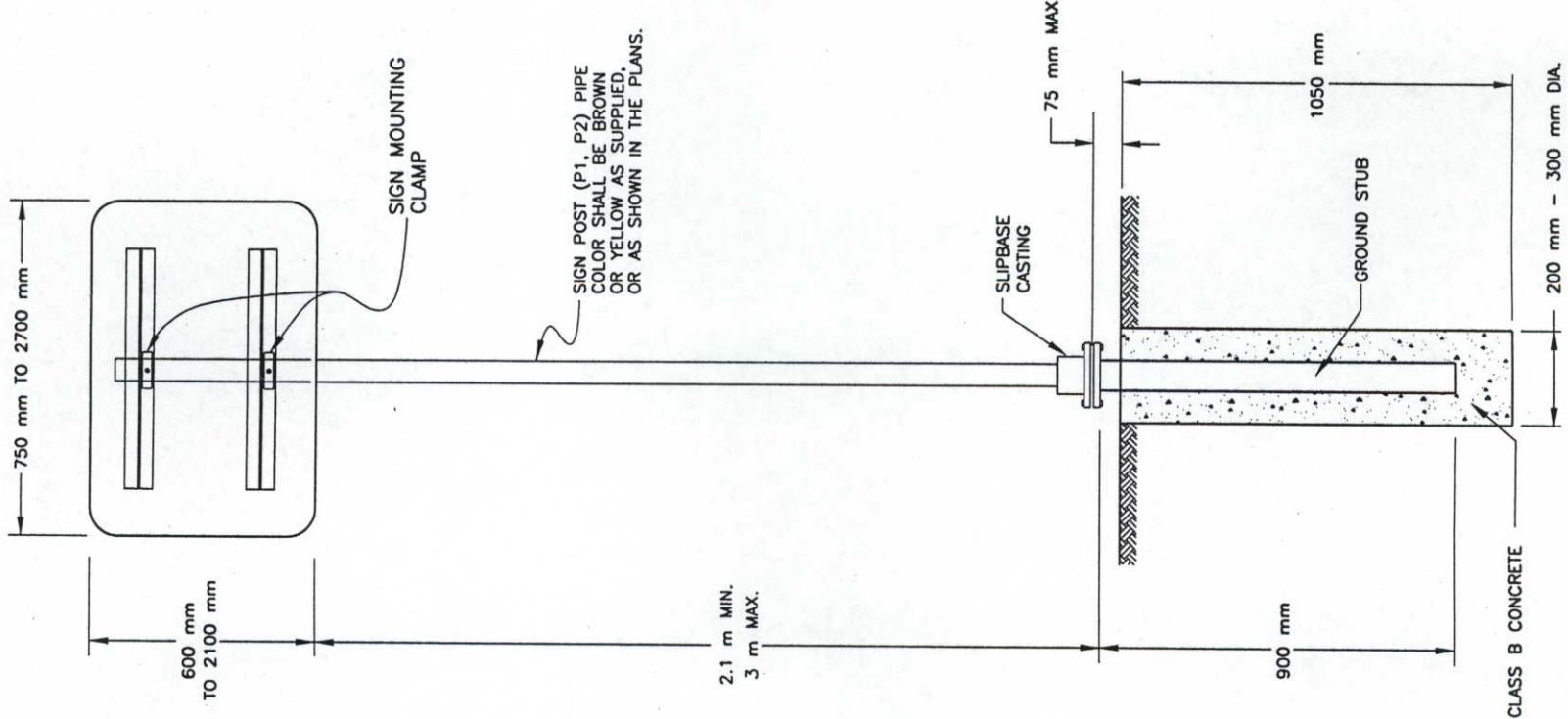
GROUND MOUNTED
SIGN SUPPORT DETAILS

ISSUED BY
TRANS SAFETY &
TRAFFIC ENGR BRANCH

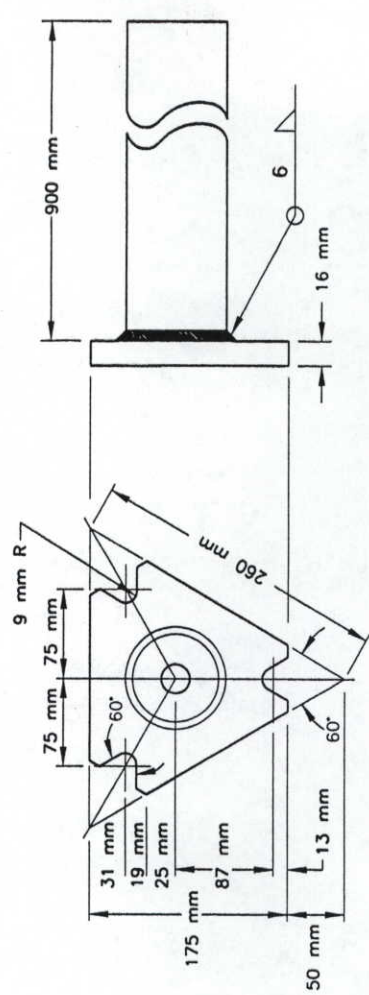
Subset Sheets: TR 20 of 21

SHEET OF

TUBULAR STEEL POSTS
(WITH SLIPBASE)
(SINGLE OR DOUBLE POST)



SLIPBASE CASTING



SLIPBASE STUB POST

- GENERAL NOTES:
- SIGN POSTS SHALL BE COLD FORMED STEEL WITH A MINIMUM YIELD STRENGTH OF 380 MPa.
 - MANUFACTURER'S INSTRUCTIONS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO INSTALLATION.
 - SIGNS AND POSTS AS SHOWN IN THE PLANS SHALL INCLUDE THE FOOTING, SLIPBASE, AND ALL HARDWARE NECESSARY FOR COMPLETE INSTALLATION. POST TYPE P1 AND P2 SHALL BE PAID FOR AS 614, STEEL SIGN POST (65 mm ROUND) (SLIPBASE), METERS.
 - FOR BACKING ZEE DETAILS, SEE STANDARD PLAN S-614-3 (CLASS II GROUND SIGN INSTALLATIONS).

DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO

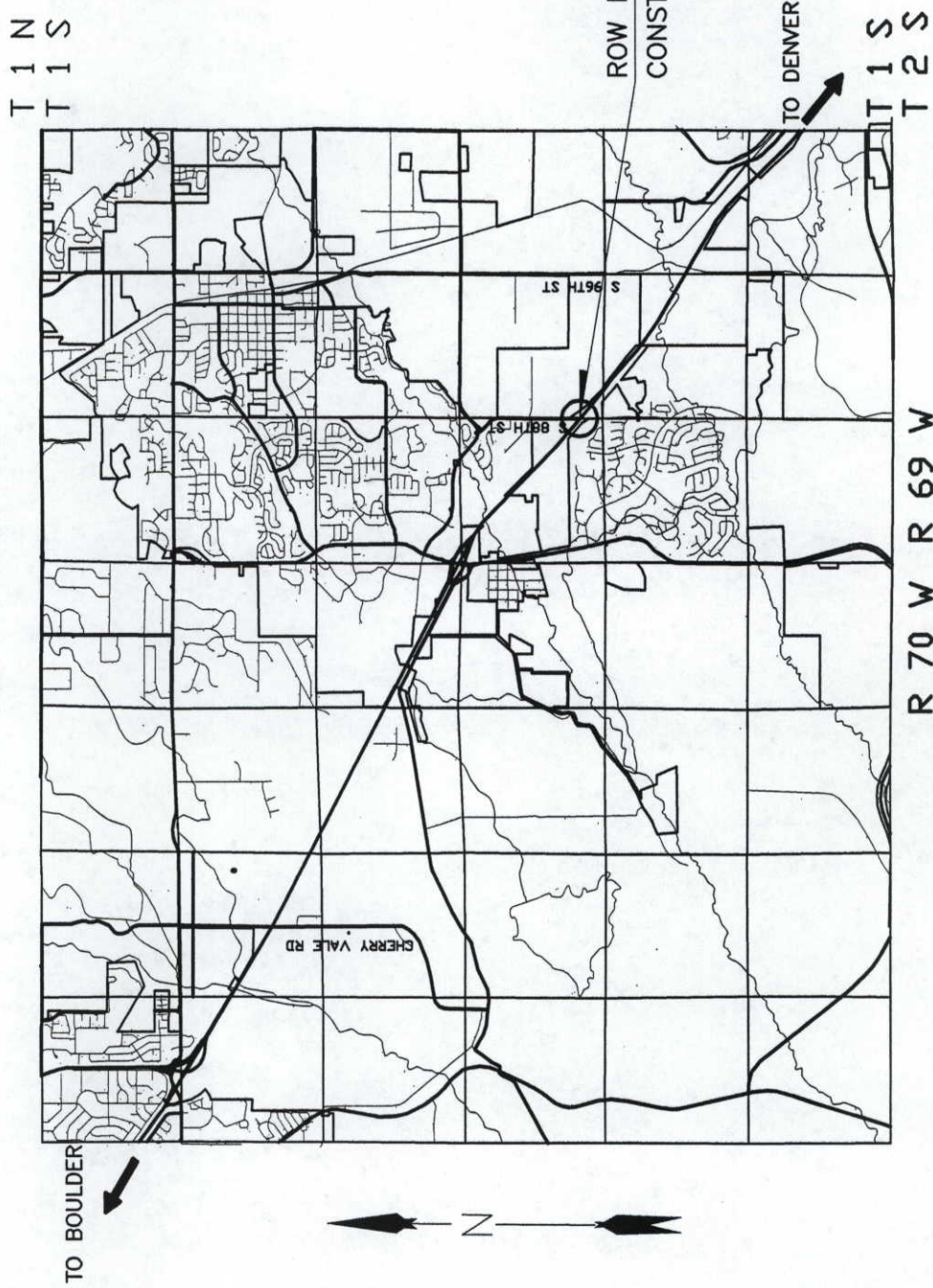
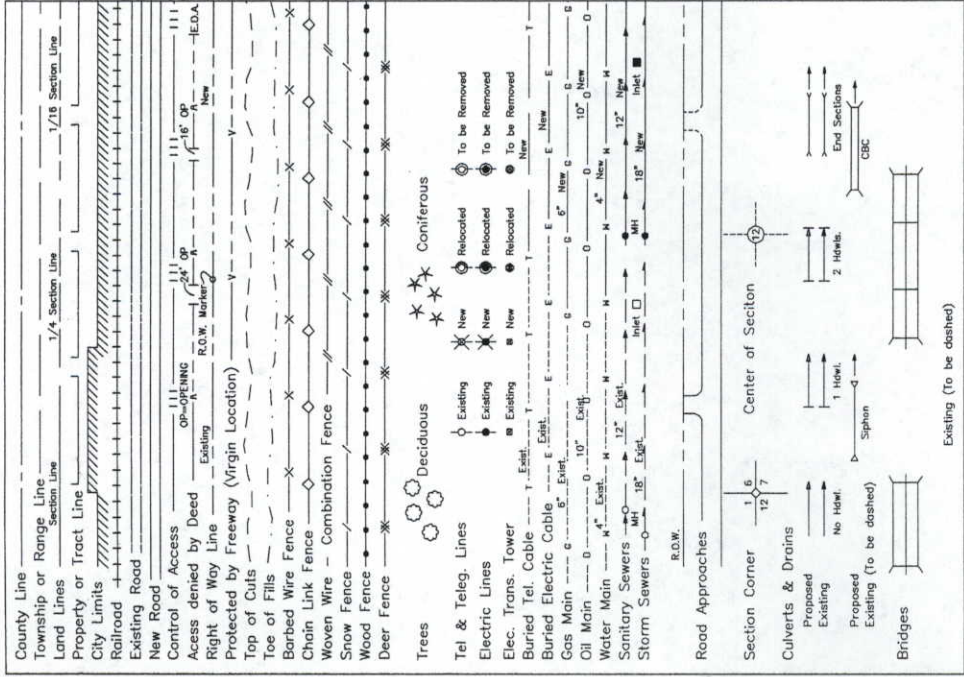
RIGHT OF WAY PLAN OF PROPOSED
FEDERAL AID PROJECT NO. BR 0361-056 (Unit 1)
STATE HIGHWAY NO. 36
BOULDER COUNTY
RIGHT OF WAY

SCALES OF ORIGINAL DRAWINGS

PLAN SHEETS 1:1000

OWNERSHIP MAP 1:2000

LINE NO.	DESCRIPTION	AMOUNT	CUMULATIVE
1	...	...	...
2	...	...	...
3	...	...	...
4	...	...	...
5	...	...	...
6	...	...	...
7	...	...	...
8	...	...	...
9	...	...	...
10	...	...	...
11	...	...	...
12	...	...	...
13	...	...	...
14	...	...	...
15	...	...	...
16	...	...	...
17	...	...	...
18	...	...	...
19	...	...	...
20	...	...	...
21	...	...	...
22	...	...	...
23	...	...	...
24	...	...	...
25	...	...	...
26	...	...	...
27	...	...	...
28	...	...	...
29	...	...	...
30	...	...	...
31	...	...	...
32	...	...	...
33	...	...	...
34	...	...	...
35	...	...	...
36	...	...	...
37	...	...	...
38	...	...	...
39	...	...	...
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All bearings are based on the easterly line of the Southeast Quarter of Section 19, Township 1 South, Range 69 West assumed to bear N 0°09'25" W a distance of 801.064 meters, monumented as shown.

SOUTHEAST CORNER
Found 3 1/2" Alum. Cap

EAST 1/4 CORNER
Found 3 1/2" Alum. Cap

East Line of the SE 1/4 of Sec. 19

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

AUTHORIZED:

DATE _____

DIVISION ADMINISTRATOR

68

COLORADO DEPARTMENT OF TRANSPORTATION



Region 4
1420 Second Street
Greeley, CO 80631
Phone: (970) 350-2157 FAX: (970) 350-2178
RIGHT OF WAY PLANS UNIT: M.D.H.

REVISIONS

3/99	Revised Parcels 1, 1A, PE-1, TE-1, 2, 3	R-4
	PE-3, TE-3	

RELATED PROJECTS:
CONSTRUCTION PROJECT:
BR 0361-059
PROJECT CODE: 12359

RIGHT OF WAY

TABULATION OF PROPERTIES

BR 0361-056 (Unit 1) ROW

Cherryvale Road and 88th St. in Boulder
Project Code: 11870 Sheet Number: 2

R.O.W. TABULATION OF PROPERTIES IN BOULDER COUNTY

S.H. NO. 36

PARCEL NO.	OWNER	ADDRESS	LOCATION	AREA IN SQUARE METERS				REC. INFO	REMARKS
				AREA OF PARCEL	EXISTING ROW	NET AREA	REMAINDER LEFT RIGHT		
			T. 1 S., R. 69 W., 6TH P.M. Boulder County						
1-Rev.	Richmond American Homes of Colorado, Inc., A	3600 S. Yosemite St. Ste. 200	Tract K, Rock Creek Ranch	579.1		579.1			
	Delaware Corporation	Denver, CO 80237	Filing No. 12	(6234 sf)		(6234 sf)			
	(Matt Deibel)	(303) 773-2727							
1A-Rev.	Richmond American Homes of Colorado, Inc., A	(Same As Above)	(Same As Above)	5618.8		5618.8			
	Delaware Corporation to Superior Metropolitan District No. 2			(60480 sf)		(60480 sf)			
PE1-Rev.	Richmond American Homes of Colorado, Inc., A	(Same As Above)	(Same As Above)	311.6		311.6			Ingress and Egress to Tract E, Rock Creek Ranch Filing No. 12
	Delaware Corporation to Superior-Rock Creek, LLC			(3354 sf)		(3354 sf)			
	A Colorado Limited Liability Company								
TE1-Rev.	Richmond American Homes of Colorado, Inc. A	(Same As Above)	(Same As Above)	311.6		311.6			Temporary work area
	Delaware Corporation			(3354 sf)		(3354 sf)			
2-Rev.	Superior Metropolitan District No. 2	141 Union Blvd.	Tract H, Rock Creek Ranch	865.2		865.2	29+/-		
		Lakewood , CO 80228	Filing No. 12	(9313 sf)		(9313 sf)	(82+/- sf)		
		(303) 987-0835							
3-Rev.	Superior Metropolitan District No. 2	141 Union Blvd.	Tract I, Rock Creek Ranch	378.1		378.1	5019+/-		
		Lakewood , CO 80228	Filing No. 12	(4070 sf)		(4070 sf)	(54028+/- sf)		
		(303) 987-0835							
PE3-Rev.	Superior Metropolitan District No. 2 to Superior-Rock Creek, LLC, A Colorado Limited Liability Company	(Same As Above)	Tract I, Rock Creek Ranch	569.5		569.5			Ingress and Egress to Tract E, Rock Creek Ranch Filing No. 12
			Filing No. 12	(6130 sf)		(6130 sf)			
TE3-Rev.	Superior Metropolitan District No. 2	(Same As Above)	(Same As Above)	569.5		569.5			Temporary work area
				(6130 sf)		(6130 sf)			

Region 4

1420 2nd Street

Greeley, CO 80631

Phone: (970) 350-2173

DOT

DEPARTMENT OF TRANSPORTATION

COLORADO DEPARTMENT OF TRANSPORTATION

SURVEY UNIT: MARK D. GUERRERO

36 MP 44.53 to MP 44.54

Sections 19, 20, 29 & 30 T1S, R69W 6th P.M.

BOULDER COUNTY, COLORADO

BR 0361-059

BR 0361-056

CHERRYVALE & 88TH (E-16-FE&FT)

PROJECT CODE: 11870

SHEET NUMBER: 3

NOTE

CONSTRUCTION PROJECT

BR 0361-059

88TH ST. BRIDGE AT US 36

PROJECT CODE: 12359

COORDINATE SUMMARY TABLE
(ADJUSTED FIELD DATA)

POINT NAME	GEODETIC COORDINATES NAD-83(92) (CHARN)		MAPPING ANGLE	SCALE	NAD 83(92) COLO NORTH		PROJECT COORDINATES		ELEV (m)	DESCRIPTION
	LATITUDE(N)	LONGITUDE(W)			NORTHING (m)	EASTING (m)	NORTHING (m)	EASTING (m)		
CP 300 (MP 3.00)	39°56'22.6433"	105°08'49.66052"	0°13'40.80884"	0.999971505	372176.803	944560.520	372284.964	944835.026	1657.387	CDOT Type II Control Monument
CP 315 (MP 3.15)	39°56'30.12185"	105°08'49.62370"	0°13'40.83263"	0.999971310	372407.453	944560.476	372515.681	944834.982	1663.621	CDOT Type II Control Monument
CP 327 (MP 3.27)	39°56'36.42454"	105°08'49.06350"	0°13'41.19459"	0.999971147	372601.890	944573.002	372710.175	944847.511	1664.523	CDOT Type II Control Monument
CP 336 (MP 3.36)	39°56'41.44893"	105°08'46.39089"	0°13'42.92146"	0.999971017	372757.103	944635.829	372865.432	944910.357	1662.885	CDOT Type II Control Monument
CP 338 (MP 3.38)	39°56'42.24431"	105°08'48.32576"	0°13'41.6712"	0.999970997	372781.450	944589.800	372889.787	944864.314	1670.203	CDOT Type II Control Monument
CP 346 (MP 3.46)	39°56'45.63300"	105°08'48.41857"	0°13'41.6113"	0.999970910	372885.954	944587.181	372994.321	944861.694	1669.342	CDOT Type II Control Monument
CP 347 (MP 3.47)	39°56'45.86612"	105°08'47.05899"	0°13'42.48978"	0.999970904	372893.272	944619.426	373001.642	944893.949	1669.837	CDOT Type II Control Monument
CP 352 (MP 3.52)	39°56'50.05488"	105°08'48.23154"	0°13'41.73215"	0.999970797	373022.349	944591.077	373130.756	944865.592	1663.790	CDOT Type II Control Monument
CP 367 (MP 3.67)	39°56'57.37042"	105°08'49.48577"	0°13'40.92175"	0.999970611	373247.853	944560.406	373356.325	944834.912	1675.246	CDOT Type II Control Monument
CP 380 (MP 3.80)	39°57'03.80630"	105°08'49.14301"	0°13'41.14322"	0.999970488	373446.378	944567.752	373554.908	944842.260	1670.623	CDOT Type II Control Monument

BASIS OF BEARINGS: All bearings are based on a line connecting the Southeast corner of Section 19, Township 1 South, Range 69 West, Sixth P.M. (3.5" alum. cap LS# 13155) and the East quarter corner of Section 19, Township 1 South, Range 69 West, Sixth P.M. (3.5" alum. cap LS# 28292) as bearing N 00°09'25" W

BASIS OF ELEVATIONS: Project is based on a elevation of 1,673.839m on Bench Mark "T 413" a NGS bench mark disk. All other Control Points on this Project were then tied in by differential level loop thru this bench mark per CDOT Survey Manual, Chapter 3, Section 6.

COORDINATE DATUM: Project Coordinates are modified Colorado State Plane North Zone NAD 83(92) coordinates. State Plane Coordinates were modified to a mean Project elevation of 1666.7457m. The combined elevation/scale factor used to modify the coordinates was 0.9997094671. Project Coordinates are truncated by (zero) in the Northing and (zero) in the Easting. The CHARN is based on NAD 83(92) datum.

 CP — Control Point Monuments set by CDOT. They were CDOT type 2 monuments, a 3-1/4" dia. aluminum control monument cap (as shown) on a 3' X 3/4" dia. finished aluminum security rod on a 3' X 3/4" dia. smooth aluminum rod.

NOTE: This control survey is for the use of the Colorado Department of Transportation personnel. The survey is not a complete Boundary Survey. Title Policy, Title Commitment, and Title Research were not part of this control survey, therefore, easements, rights, and restrictions of record are not shown. The verification of the physical evidence with relation to easements, rights of way, property boundaries, and restriction, as described in the instruments of record, were not included in this control survey.

NOTE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the statement shown.

NOTE: No guarantee as to the accuracy of the information contained on the attached drawing is either stated or implied unless this copy bears an original signature of the professional land surveyor hereon named.

SURVEYORS STATEMENT: I, Mark D. Guerrero, a Professional Land Surveyor in the State of Colorado, hereby state that this Control Survey Diagram was prepared under my direct supervision this _____ day of _____ from a field survey performed under my supervision and checking for and on behalf of the Department of Transportation, State of Colorado, and is not a Land Survey Plat or Right-of-Way Survey Plat and to the best of my knowledge and belief this control survey, as shown, meets the minimum horizontal control tolerances of a Type B Survey and this topographic survey, as shown, meets the minimum horizontal control tolerances of a Type D Survey as listed in the Colorado Department of Transportation Survey Manual Chapter Three (Revised 4/29/92).

Mark D. Guerrero L.S. 29752

92

11870csd.dwg 07 JAN 1999 07:32:00.1 PLOT/EDIT by Lee K Groves



Region 4

1420 2nd Street

Greeley, CO 80631

Phone: (970) 350-2173

FAX: (970) 350-2178

COLORADO DEPARTMENT OF TRANSPORTATION

SURVEY UNIT: MARK D. GUERRERO

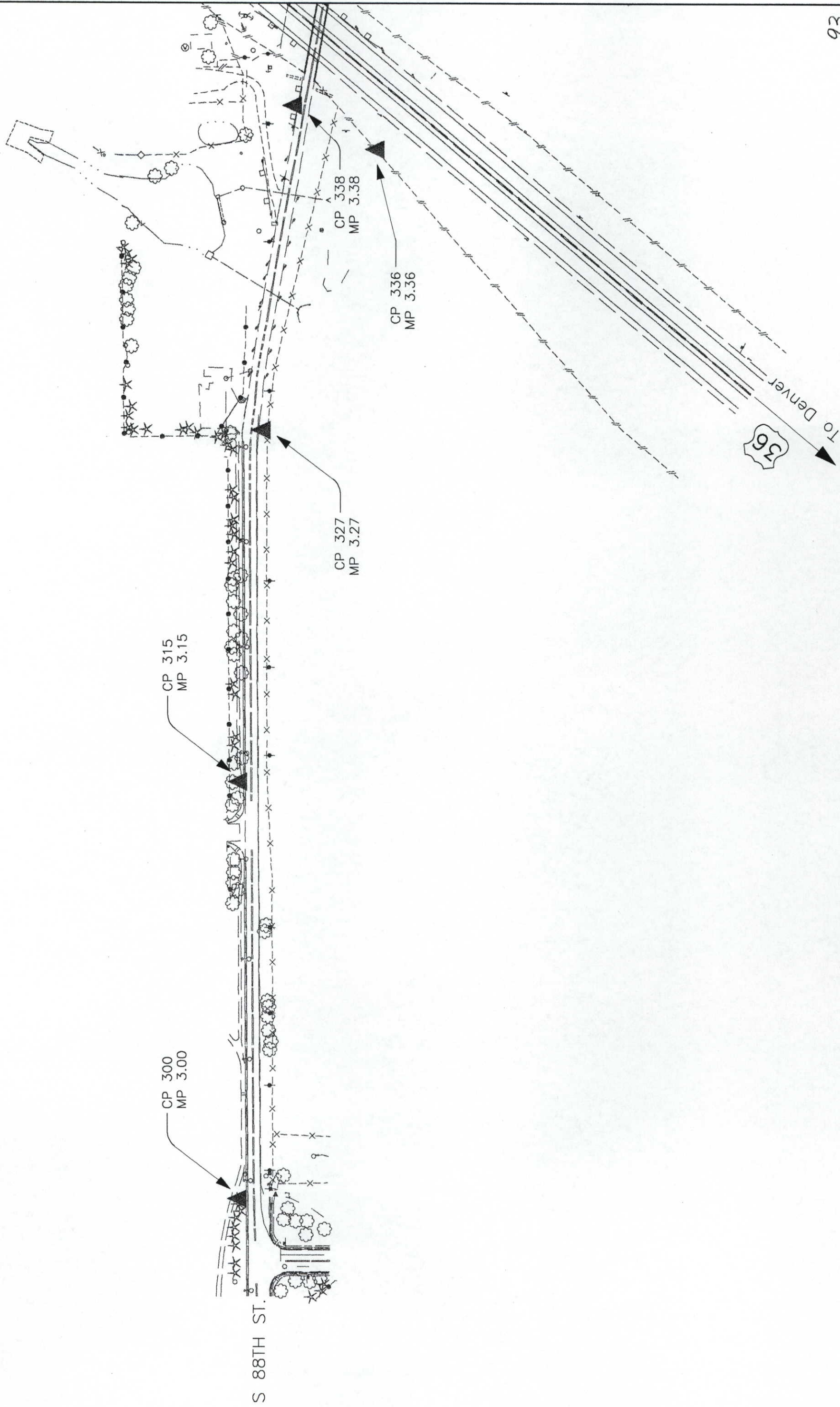
Sheet Revisions	

Sections 36 MP 44.53 to MP 44.54
19, 20, 29 & 30 T1S, R69W
BOULDER COUNTY, COLORADO

6th P.M.



NOTE		SURVEY	
CONSTRUCTION PROJECT		CONTROL DIAGRAM	
BR 0361-059		BR 0361-056	
88TH ST. BRIDGE AT US 36		CHERRYVALE & 88TH (E-16-FE&FT)	
PROJECT CODE: 12359		PROJECT CODE: 11870	
		SHEET NUMBER: 3-A	



COLORADO DEPARTMENT OF TRANSPORTATION



Region 4
1420 2nd Street
Greeley, CO 80631
Phone: (970) 350-2173 FAX: (970) 350-2178
SURVEY UNIT: MARK D. GUERRERO

Sheet Revisions

Sections 19, 20, 29 & 30 T1S, R69W
BOULDER COUNTY, COLORADO
36 MP 44.53 to MP 44.54
6th P.M.

NOTE
CONSTRUCTION PROJECT
BR 0361-059
88TH ST. BRIDGE AT US 36
PROJECT CODE: 12359

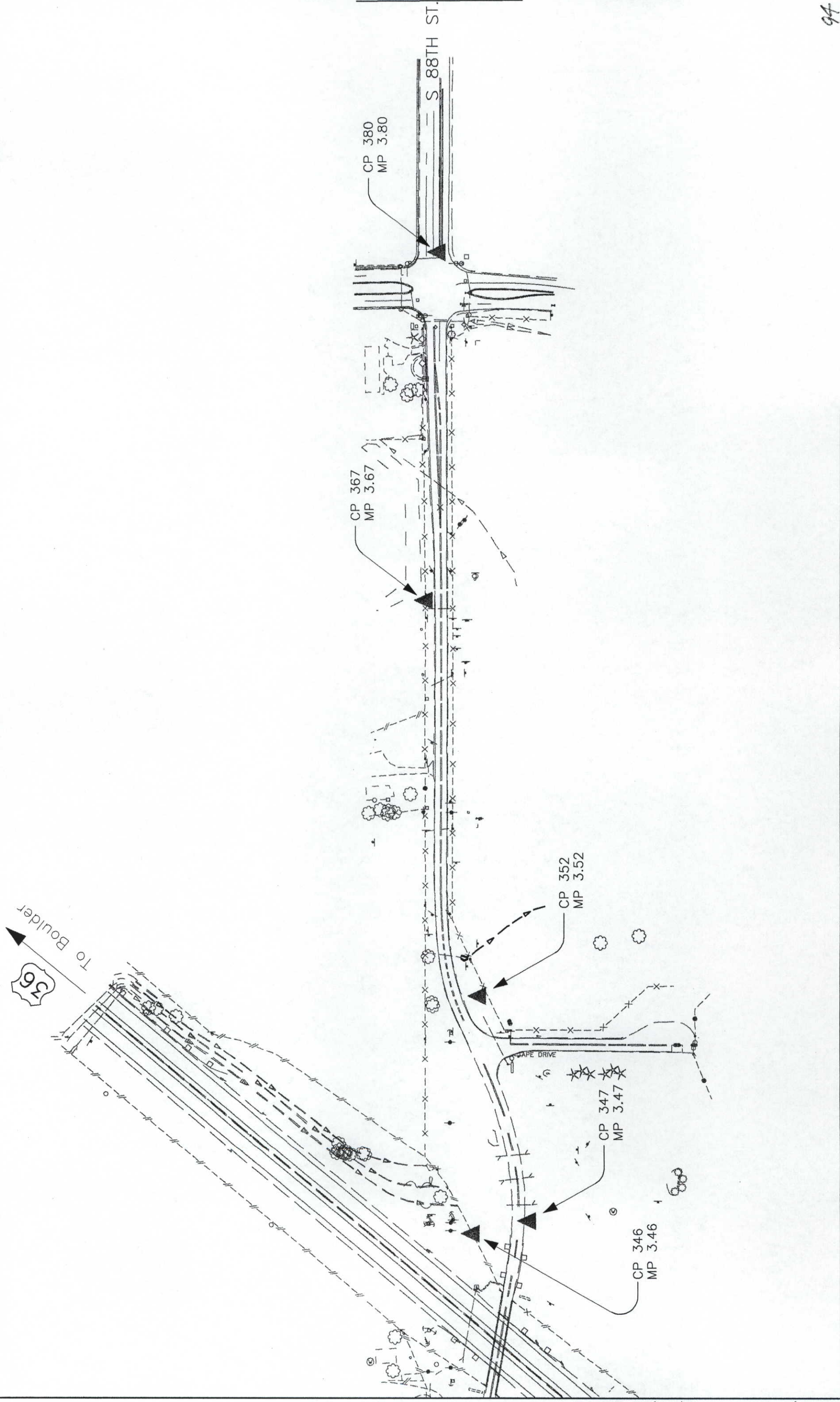
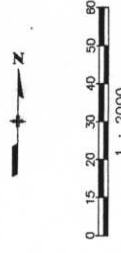
SURVEY

CONTROL DIAGRAM

BR 0361-056

CHERRYVALE & 88TH (E-16-FE&FI)

PROJECT CODE: 11870 SHEET NUMBER: 3-B



COLORADO DEPARTMENT OF TRANSPORTATION



Region 4
1420 Second Street
Greeley, CO 80631
Phone: (970) 350-2157 FAX: (970) 350-2178
RIGHT OF WAY PLANS UNIT: M.D.H.

Sheet Revisions

3/99	Revised Parcels 1, 1A, PE-1, TE-1, 2, 3, PE-3, TE-3 4, TE-4	R-4
5/99	Revised Parcel TE-6, Added Parcel TE-6A	R-4

RELATED PROJECTS:
CONSTRUCTION PROJECT:
BR 0361-059
PROJECT CODE: 12359

RIGHT OF WAY

MONUMENTATION SHEET

BR 0361-056 (Unit 1)

Cherryvale Road and 88th St. in Boulder

PROJECT CODE: 11870

SHEET NUMBER:

4

TABULATION OF R.O.W. MARKERS
TO BE SET BY STATE FORCES

POINT NO.	NORTHING	EASTING
5500	373139.8189	944865.5528
5501	373168.9585	0+595 RL
5503	373224.6832	0+620 RL
5504	373289.8198	944857.8933
5506	373111.2435	0+680 RL
5508	373159.5781	0+745 RL
5509	373211.8823	0+565 LL
5510	373222.0161	0+610 LL
5511	373289.7497	0+665 LL
5617	372950.3250	0+675 LL
6022	372897.9370	0+745 LL
6023	372714.9191	0+290 LL
		944802.8046
		0+355 LL
		944833.6695
		0+170 LL

TABULATION OF PERMANENT EASEMENT
MARKERS TO BE STAKED

POINT NO.	NORTHING	EASTING	
1050	372798.3161	944817.4255	PE-3
1055	372862.7845	944800.3344	PE-3
1056	372860.5372	944803.9619	PE-3
1057	372800.0412	944818.4722	PE-3
1563	372745.8677	944805.1905	PE-1
1565	372712.1767	944826.6202	PE-1
1567	372707.1344	944833.1532	PE-1
1569	372783.0837	944814.6351	PE-1
6006	372738.9247	944802.3968	PE-1
6007	372711.9234	944817.1152	PE-1
6008	372707.1051	944831.4567	PE-1
6015	372862.7694	944799.4623	PE-3
6016	372798.1938	944810.3526	PE-1, PE-3
6017	372779.2251	944812.6242	PE-1
6019	372856.1774	944809.8471	PE-3
6020	372801.1556	944819.1262	PE-3
6021	372798.3537	944819.5987	PE-1, PE-3
6024	372796.4533	944819.9192	PE-1

TABULATION OF TEMPORARY EASEMENT
MARKERS TO BE STAKED

POINT NO.	NORTHING	EASTING	
6014	372957.5448	944797.9685	TE-4
6025	372897.5019	944793.6049	TE-4
6506	373111.1519	944813.7039	TE-5
6508	373160.0104	944813.5702	TE-5
6509	373209.4133	944822.3150	TE-5
6511	373289.7223	944822.0951	TE-5
6517	373090.5250	944889.1467	TE-6
6518	373090.0745	944961.0030	TE-6
6519	373119.2012	944961.0031	TE-6
6520	373119.7393	944875.1637	TE-6
6521	373155.8972	944865.8210	TE-6A
6522	373155.6431	944881.0589	TE-6A
6523	373170.6940	944881.3098	TE-6A
6524	373170.9535	944865.7472	TE-6A

GENERAL NOTES

1. This Right of Way plan is not a complete boundary survey of all adjoining owners and is prepared for Transportation Department purposes Only.
2. Survey Control Points set with a higher degree of accuracy than ROW Markers.
3. NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event, may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.
4. All R.O.W. Markers set from survey control points.
5. All centerline and offset stationing is theoretical only and may not represent the centerline as constructed in the field. All stationing is approximate.
6. All coordinates listed are project coordinates only.
7. Field survey control precision computed to exceed 1/100,000.
8. Commitments for title insurance supplied by Longmont Title Co.
9. The SW corner of Section 20 and the S 1/16 corner of Sections 19 and 20 shall be referenced and reset according to specification 629. Right of Way markers 5510, 5511, 6022, 6023 will be disturbed by construction and shall be reset according to specification 629.

QUANTITY OF MONUMENTS TO BE RESET

CAP TYPE	MONUMENT TYPE				
	1	1A	2	2A	3
REFERENCE					
RIGHT OF WAY	4				
CONTROL					
ALIQUOT CORNER					2
WITNESS POST					

SURVEYOR CERTIFICATE (FIELD)

Control Survey and Monumentation was done under my supervision and checking.

NAME _____ P.L.S. NO. _____

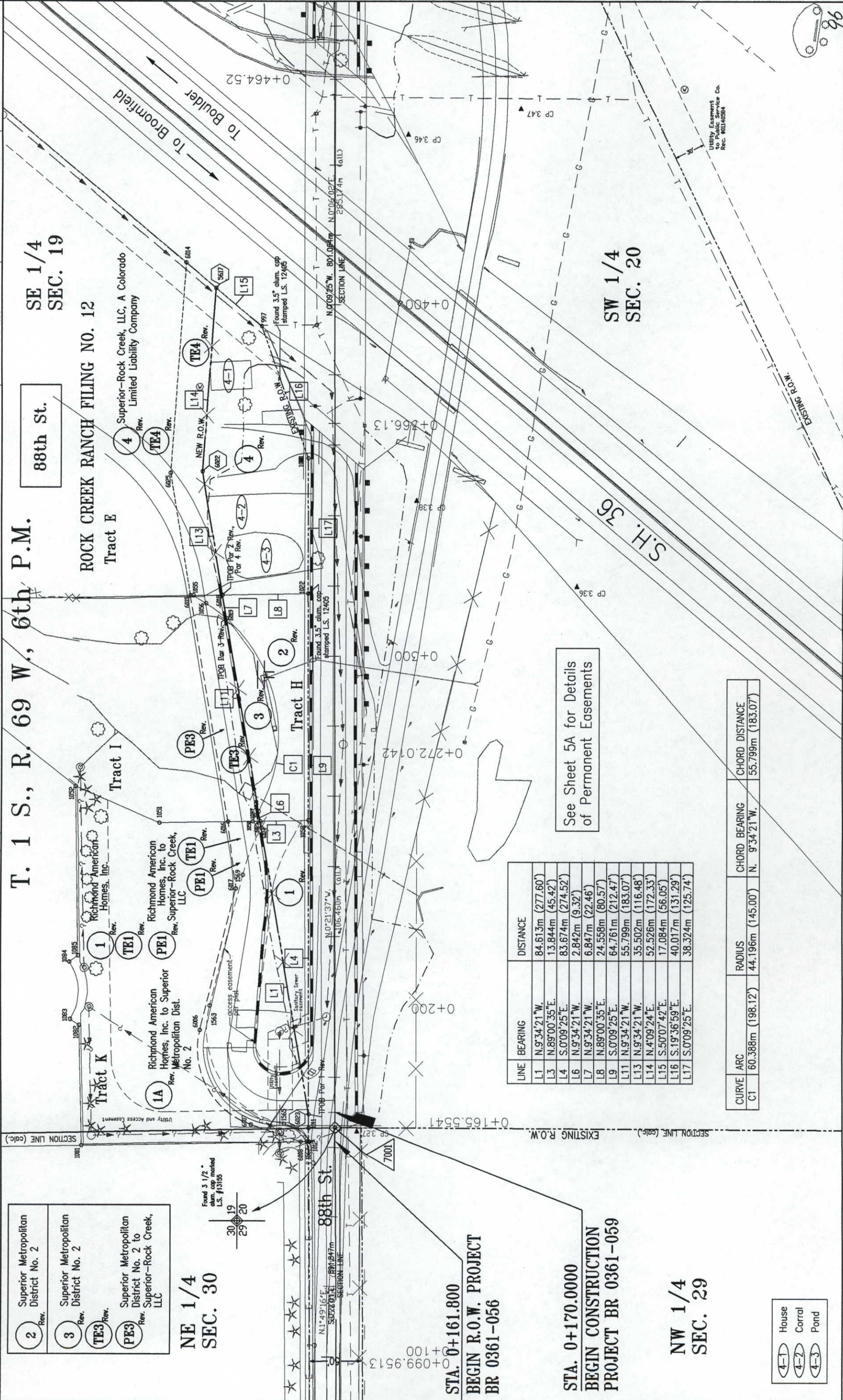
DATE _____

SURVEYOR CERTIFICATE (OFFICE)

R.O.W. Plans and Legal Descriptions were prepared under my supervision and checking.

NAME _____ P.L.S. NO. _____

DATE _____



COLORADO DEPARTMENT OF TRANSPORTATION

Region 4
1420 2nd St.
Greeley, CO 80631
Phone: (970) 350-2157 FAX: (970) 350-2178

RIGHT OF WAY PLANS UNIT: M.D.H.

Sheet Revisions

3/99	Revised	Parcels 1, 1A, PE1, 2, 3, PE3	R4

RELATED PROJECTS:
CONSTRUCTION PROJECT:
BR 0361-059
PROJECT CODE: 12359

RIGHT OF WAY

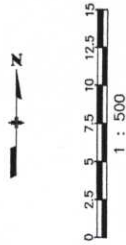
PLAN SHEET

BR 0361-056 (Unit 1)

Cherryvale Road and 88th St. in Boulder

PROJECT CODE: 11870

SHEET NUMBER: 5A



NE 1/4
SEC. 30

T. 1 S., R. 69 W., 6th P.M.

SE 1/4
SEC. 19

88th St.

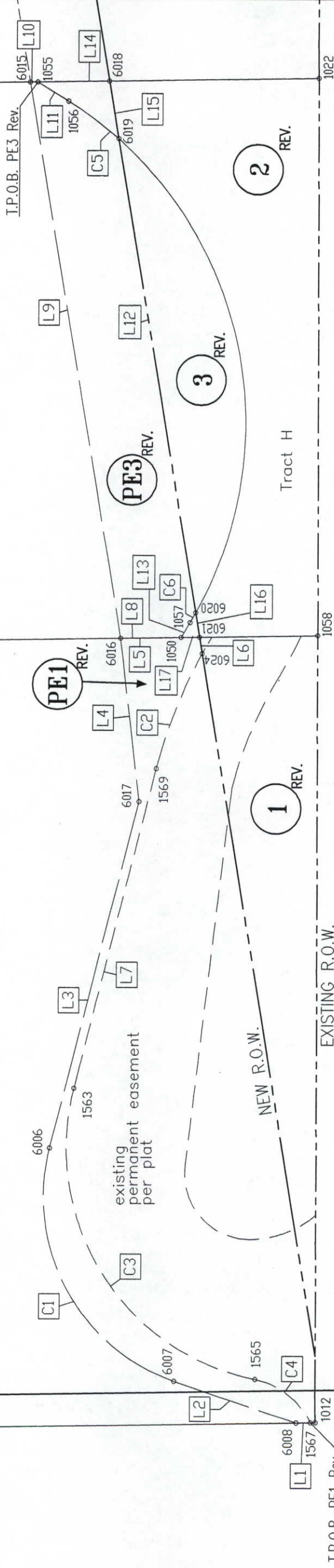
Detail of
Permanent
Easements

Tract K

1A
REV.

Rock Creek Ranch Filing No. 12

Tract I



COLORADO DEPARTMENT OF TRANSPORTATION



Region 4
1420 Second Street
Greeley, CO 80631
Phone: (970) 350-2157 FAX: (970) 350-2178
RIGHT OF WAY PLANS UNIT: M.D.H.

Sheet Revisions

05/99 Revised parcel TEB, added parcel TEB6A

R-4

RELATED PROJECTS:

CONSTRUCTION PROJECT:
BR 0361-059
PROJECT CODE: 12359

RIGHT OF WAY
PLAN SHEET

BR 0361-056 (Unit 1)

Cherryvale Road and 88th St. in Boulder

PROJECT CODE: 11870

SHEET NUMBER:

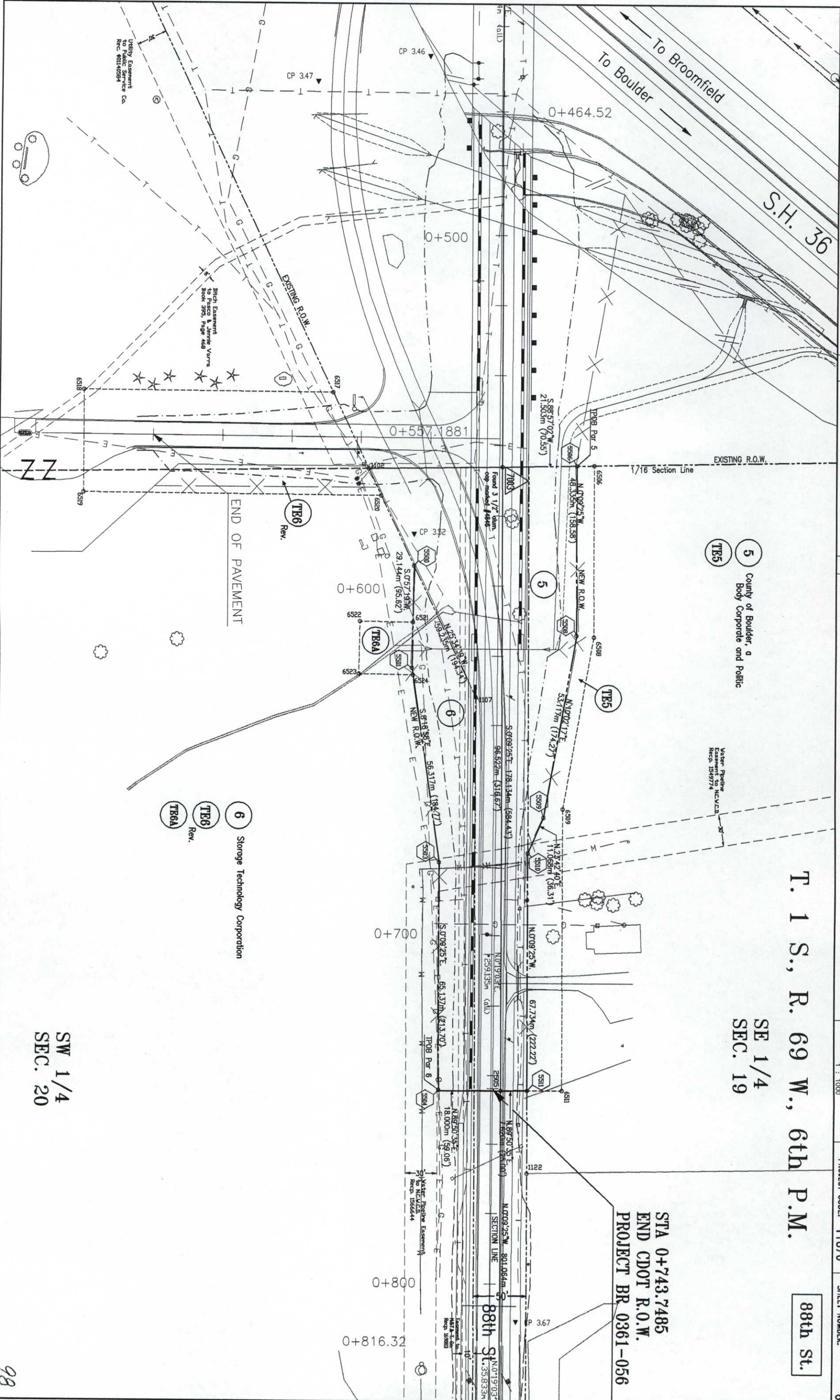
6

88th St.

T. 1 S., R. 69 W., 6th P.M.

SE 1/4
SEC. 19

STA 0+743.7485
END CDOT R.O.W.
PROJECT BR 0361-056



SW 1/4
SEC. 20

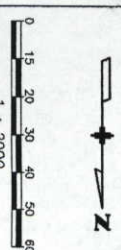
COLORADO DEPARTMENT OF TRANSPORTATION

Sheet Revisions

3/99	Revised Parcel 1, 1A, PE-1, TE-1, 2, 3, PE-3, TE-3, 4, TE-4	R-4
5/99	Revised parcel TE6, added parcel TE8A	R-4

RELATED PROJECTS:

CONSTRUCTION PROJECT:
BR 0361-059
PROJECT CODE: 12359



RIGHT OF WAY

OWNERSHIP MAP

BR 0361-056 (Unit 1)

PROJECT CODE: 11870	SHEET NUMBER: 7
---------------------	-----------------

SHEET NUMBER- 7

NE 1/4
SEC. 30

T. 1 S., R. 69 W., 6th P.M.

88TH ST.

SE 1/4
SEC. 19

NW 1/4
SEC. 29

SW 1/4
SEC. 20

STA. 0+161.800
BEGIN R.O.W. PROJECT
BR 0361-056

STA. 0+170.0000
BEGIN CONSTRUCTION
PROJECT BR 0361-059

1 Richmond American Homes
3600 S. Yosemite St., Ste. 200
Rev. Denver, CO 80237
TE1 Contact: Matt Deibel
(303) 773-2727
Rev. Deed - to be filed
Commitment No. W316686

PE1 Richmond American Homes, Inc.,
Rev. to Superior-Rock Creek, LLC

1A Richmond American Homes to Superior
Metropolitan District No. 2
Rev.

2 Superior Metropolitan District No. 2
141 Union Blvd.
Lakewood, CO 80228
(303) 987-0835
Ownership per plat
Commitment No. W316684

3 Superior Metropolitan District No. 2
141 Union Blvd.
Rev. Lakewood, CO 80228
(303) 967-0835
Ownership per plat
Rev. Commitment No. W316565

TP3

PE3 Superior Metropolitan District No. 2
To Superior-Rock Creek, LLC
Rev.

4
Rev. Superior-Rock Creek, LLC, A Colorado
Limited Liability Company
Box 987
Breckenridge, CO 80424
Deed #1855162
Commitment No. W316683

6 Storage Technology Corporation
2270 S. 88th
Louisville, CO 80027
(303) 673-5151
Recp. 305246, 323025
Commitment No. 23820, 23815

STA 0+743.7485
END CDOT R.O.W.
PROJECT BR 0361-056

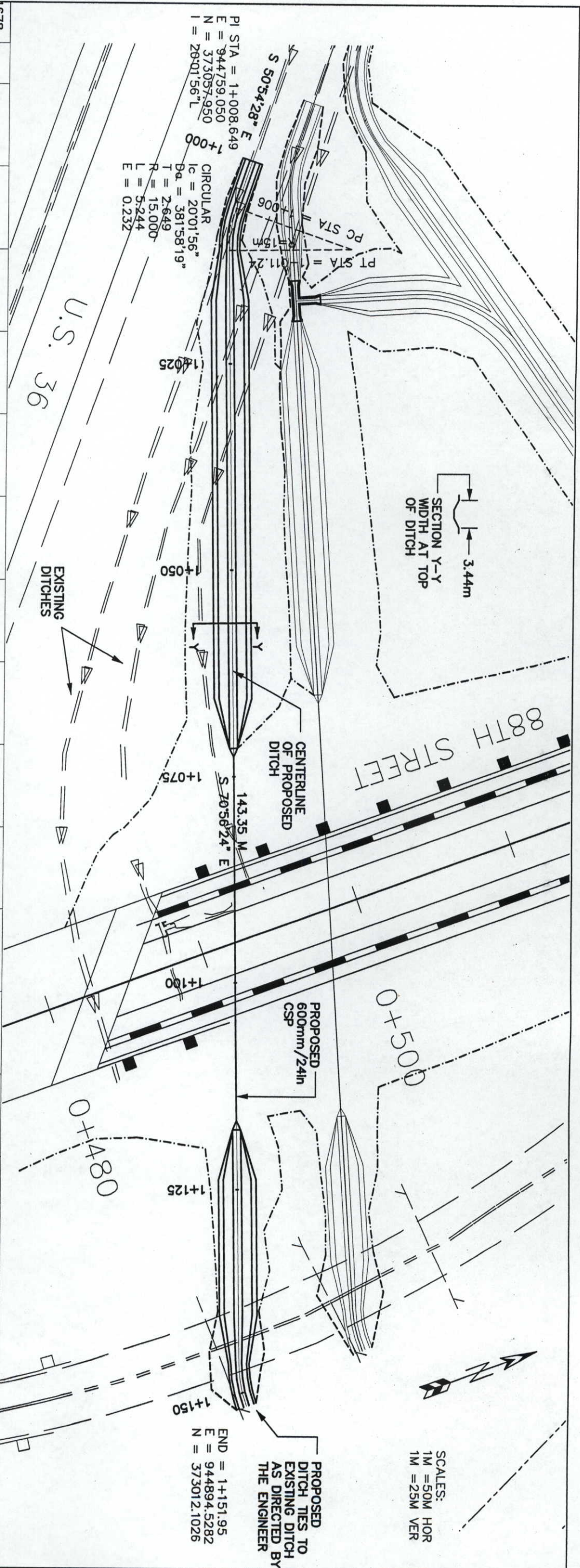
5 County of Boulder, a body
corporate and politic
P.O. Box 471
Boulder, CO 80306
PE3 (303) 441-3550
Recp. 1697463
Commitment No. 23813

30 more pipeline
Easement to NCWCD
Recd. 1549774

8' Ditch Easement⁹
to Pasco & Jennie
Yarru
Bk. 395, Pg. 468

30' Utility Easement
to Public Service Co.
Recp. 1140584

20' Utility Easement
to Public Service Co.
Recp. 1005287



BEGIN STA = 1+000
BEGIN EL = 1668.53

FLOW LINE OF PROPOSED DITCH

EXISTING GROUND

-0.34%

END STA = 1+151.95
END EL = 1668.12

Computer File Information		Sheet Revisions		Colorado Department of Transportation		As Constructed		DITCH ONE PLAN AND PROFILE		Project No./Code	
Creation Date: 4/27/99	Initials: JWM	☐		 1050 Lee Hill Drive Boulder, CO 80302 Phone: (303) 442-5640 Fax: (303) 444-0751 Region IV Design MHG	No Revisions: 9/12/99/mwr	Designer: JWM Drafter: JWM Sheet Subject:	Structure Numbers	BR 0361-059	12359	Sheet Number: 100	
Last Modification Date: 6/1/99	Initials: JWM	☐									
Full Path: C:\PROJECTS\12359		☐									
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1+000		1+050		1+100		1+150		1657			



END STA = 3+156.06
END EL = 1663.71

Computer File Information

Sheet Revisions

Colorado Department of Transportation



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Region IV Design

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DITCH THREE PLAN AND PROFILE

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Sheet Number: 102

