

COLORADO DEPARTMENT OF TRANSPORTATION

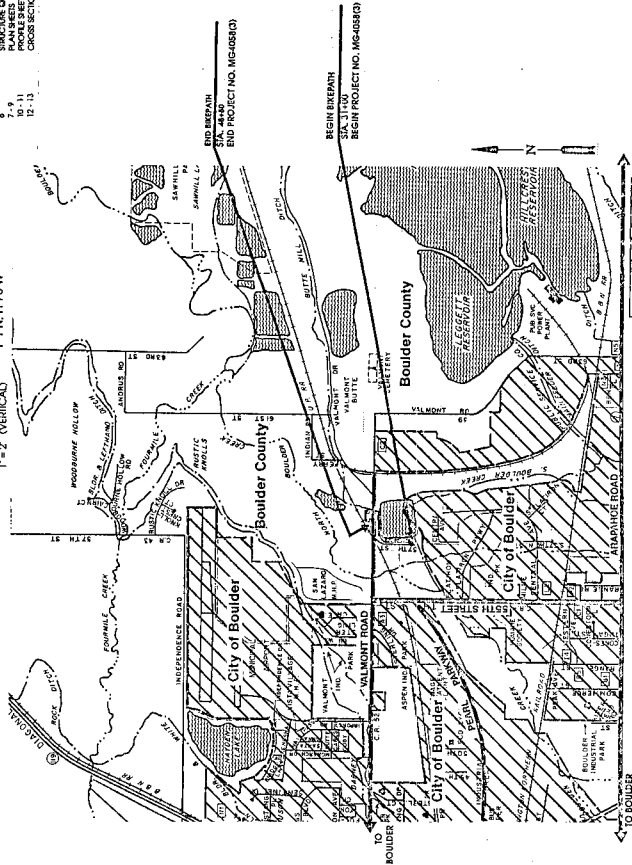
VALMONT ROAD BIKEPATH CONNECTOR FEDERAL AID PROJECT NUMBER MG4058(3) BOULDER COUNTY

SCALE OF PLAN SHEETS: 1" = 20'
SCALE OF PROFILE SHEETS: 1" = 2' (HORIZONTAL)
1" = 2' (VERTICAL)

LENGTH AND DESIGN DATA			
STATION	BIKEPATH	UNIMPROVED	STRUCTURES
STATION 1+00 TO STA. 44+00	1500		
TOTALS			
SUMMARY	UN. FT.	MILES	
BIKEPATH	1500	0.30	
DESIGN DATA			
MINIMUM RADIUS OF CURVE	60'		
MAXIMUM GRADE	4.4%		

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8 PROFILE SHEET
9 TO 11 CROSS SECTIONS
12 TO 13 CROSS SECTIONS



CITY OF BOULDER

Project Management Coordinator	Date
Traffic Engineer	Date

AS CONSTRUCTED INFORMATION	
CONTRACTOR	ENGINEER
PROJECT STARTED	PROJECT COMPLETED
AS CONSTRUCTED INFORMATION	AS CONSTRUCTED INFORMATION
TITLE	DATE

DOT REGION 4 / RRA, CITY OF BOULDER, 10/13

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THE STANDARD PLAN SHEETS INDICATED HEREON BY A MARKED BOX ARE TO BE USED TO CONSTRUCT THIS PROJECT.

WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS ORDERED BY THE ENGINEER AND WILL BE INCLUDED IN THE COST OF ITEM 203 - UNCLASSIFIED EXCAVATION.

FULL DEPTH OF ALL EMBANKMENTS,
BASES OF CUTS AND FILLS 6 INCHES.

TYPE OF COMPACTION FOR THIS PROJECT WILL BE ASJANTO T99.

THE MINIMUM THICKNESS OF TOPSOIL SHALL BE 4 INCHES. TOPSOIL WILL BE OBTAINED FROM WITHIN THE EXCAVATED PATH AREA AS APPROVED BY THE ENGINEER. TOPSOIL WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF ITEM 303 - UNCLASSIFIED EXCAVATION.

MEDIUM COVER MATERIAL SHALL BE COLORED WITH DAVIS COLOR "BRICK RED" AND THE CONCRETE SHALL HAVE A ROUGH BROOKED FINISH WITH TROWELLED SURFACES PERPENDICULAR TO THE CENTERLINE AT LENGTHS EQUAL TO THE WIDTHS OF THE SHOULDER MATERIAL.

THE TREE REMOVALS NECESSARY TO PLACE THE PATH SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CLEARING AND GRUBBING.

THE FOLLOWING TYPES AND RATES SHALL BE USED:

COMMON NAME	BOTANICAL NAME	RATE PL./ACRE ROUND
INTERMEDIATE WHEATGRASS	AGROPYRON INTERMEDIUM	5
WHEATSPICE WHEATGRASS	ELYMUS LANCEOLATUS	6
V. CRITANA SAND DROPSSEED	SPOROBIOLUS CRISTATUS	25

GRAND LOVEGRASS	
SPRINKLE SANDREED	5.
MIDWAY'S GRASS	1
ERAGROSTIS TRICHODES	1
CALAMAGITULA LONGIFOLIA	1
EUTELAZA CURTIPENDULA	1
TOTAL PLS./ACRE SEEDING	13.75

WILDFLOWERS		
BLUE FLAX	LYRUM LEWISII	.5
PERFUMED, GAILLARDIA	GAILLARDIA ARISTATA	1
BLANKETFLOWER		
SCARLET GLOBEFLOWER	SPHARALCEA COCCINEA	25

ITEM	QTY	UNIT PRICE	TOTAL
TOTAL PLS/ACRE WILDFLOWER SEED			1.75
MUTCHING MATERIAL			
NATIVE MAY			
TOTALS			1.8

COMMERCIAL FERTILIZER	
AVAILABLE N	45
AVAILABLE P	115
PROJECT TOTALS	
SEEDING NATIVE	0.1 ACRES
	0.1 ACRES

MULCHING

SEEDING APPLICATION :
MECHANICALLY DRILL 0.25" - 0.50" INTO TOPSOIL.
MULCHING REQUIREMENT AND APPLICATION:
1 1 2/3 TONS OF NATIVE HAY/ACRE MECHANICALLY CRIMPED INTO TOPSOIL.

THIS PROJECT IS BEING CONSTRUCTED ON "CITY OF HOULDER - OPEN SPACE" PROPERTY. THE CONTRACTOR MUST TAKE CARE NOT TO DAMAGE ANY MORE PLANT MATERIAL THAN NECESSARY. ANY DAMAGE OUTSIDE OF THE CONCRETE DRIVEWAY OR SIDEWALK OR PAVEMENT PATH BY MORE THAN 2", OR OUTSIDE OF THE TOE OF SLOPES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. THE REPAIRS SHALL INCLUDE THE REPLACEMENT OF ANY SHRUBS OR TREES THAT

ALL REQUIRED PAVEMENT MARKINGS AND ADDITIONAL SIGNING THAT ARE NOT REPAIRED SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE AT THE CONTRACTORS EXPENSE.

6 IN WATERSTOP SHALL BE PLACED IN ALL HORIZONTAL, LONG, TUDORIA VERTICAL GILD JOINTS OF THE CONCRETE AIRWAY AND THE SHOW IN THE PLANS WILL BE INSTALLED BY CITY OF MONTGOMERY FORCES PIR THE NUTCO.

CONCRETE RETAINING WALL FROM STA. 42+20 TO STA. 44+90.

CHANGING JOINTS

VALMONT CONNECTOR PIPEPATH

[illegible]

TYPICAL SECTIONS OF BIKEPATH

1. THE PROPOSED PATHWAY SHALL BE INSTALLED AS SHOWN ON THE ATTACHED DRAWING. THE SHOULDER FOR THE BACHEL PATHWAY SHALL BE SEVERED.
2. BREAK POINTS ON FLOORS AND BOTTOM OF DITCHES SHALL BE ROUNDED FOR A PLEASANT APPEARANCE. SEE STANDARDS FOR DETAILS OF CUT SLOPE TERMINATION, FLARING, AND WEEDING.
3. THE SHOULDER OF BOTH SIDES OF THE BACHEL ARE TO BE A MINIMUM OF 2' AND SHALL BE BACKFILLED AND COMPACTED SUFFICIENTLY TO MINIMIZE SETTLING.
4. THE CONTRACTOR SHALL USE ON SITE MATERIAL AS BACKFILL IN THE BORDER AREA OF THE BACHEL. BORDERS GREATER THAN 2' SHALL NOT BE FORCED WITH THE BACHEL MATERIAL.

IT IS ANTICIPATED THAT THE MATERIAL IN THE BASE OF CUTS AND FILL IN THE AREA OF THE RIVER CHANNEL MAY BE UNDESIRABLE AND WILL NEED TO BE REPLACED. THE REPLACEMENT MATERIAL FOR THIS PURPOSE SHALL BE STRUCTURAL GRAVELL (CRS-1). IT IS ESTIMATED THAT

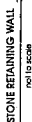
SHALL BE STRUCTURAL QUALITY SPECIALLY IT IS ESTIMATED THAT 55 CU. YDS. WILL BE NEEDED FOR THIS PURPOSE. THIS QUANTITY HAS BEEN CARRIED FORWARD TO THE STRUCTURE QUANTITIES TABULATION.

1/8" SAMPLE PORT

1

BIKEPATH JOINT DETAIL

1000

[illegible]

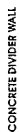
STONE REPAIRING WALL QUANTITIES ^a				STRUCTURE TYPE	STRUCTURE ELEVATION CU. YD.	STRUCTURE TYPE CU. YD.
STATION	SO. FT.	WALL CU. YD.	205	27	11	
43 + 15 TO 43 + 97						
44 + 35 TO 45 + 15	400			74	23	
TOTAL	605	101			34	

▲ Carried to Structure Quantities tabulation.

CONSTRUCTION TRAFFIC SIGNS				OTHER SERVICES		
SIGN	SIGN CODE	LEGEND	DIMENSIONS	PAVEMENT		PROJECT TOTALS
				A	B	
48 W20 - 1	48 W20 - 1	ROAD CONSTRUCTION (W20)	48" x 48"	2	10	
48 W20 - 4	48 W20 - 4	ONE LANE ROAD NARROW	48" x 48"	1	4	
48 W20 - 7a	48 W20 - 7a	FLAGGER SIGNAL	48" x 48"	7	25	
600 20 - 2	600 20 - 2	END CONSTRUCTION	60" x 24"	2		
TOTALS				9		

ANY TRAFFIC CONTROL SUPERVISION AND FLAGGING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN PDAS #630

DIVISION OF HIGHWAYS
WALMONT CONNECTOR BIKEWAY
WALL DETAILS,
EARTHWORK TABULATION, AND
CONSTRUCTION TRAFFIC SIG-
TABULATION



not to use

STA 1437016400 01

QUANTITIES PER FOOT OF WALL (LENGTH)
CLASS B CONCRETE: 8.667 FT.³/FT. (0.3210 CU. YD./FT.)

11/16/11 09:33:16 AM

CONCRETE DIVIDER WALL QUANTITIES
CONCRETE = 65 CU YD

STEEL • 6829 LBS.
STRUCTURAL PVC • 180 CM 1.50

STRUCTURAL BACKFILL (CL2) = 145 CU.

FOUNDATION INFORMATION

EQUIVALENT FLUID PRESSURE = 60 psl

SUMMARY OF FARMWORK QUANTITIES		
DESCRIPTION	PER ACRE YD.	A-5 COMB. CUB. YD.
UNDERMINING FILL (ANY TYPE) (EXCEPT IN PLACE)	1337	
MURKIN (DEBRIS) EXCAVATION	1337	
TOTAL FOR PAY QUANTITY		
FOR INFORMATION ONLY		
EXCAVATION	1337	
UNDERMINING EXCAVATION	1337	
TOTAL		
EMBANKMENT (EARTH)	304	
EMBANKMENT (GRAVEL)	304	
TOTAL	372	
EMBANKMENT (GRAVEL)	304	
EMBANKMENT (EARTH)	304	
TOTAL	372	
COMPACTATION (ASPHALT) 195		
COMPACTATION (GRAVEL) 195		
TOTAL		
WETTING		
COMPACTATION		
TOTAL		
EMBANKMENT (GRAVEL) (L.I.D.)	649	
EMBANKMENT (EARTH) (L.I.D.)	649	
TOTAL EXCAVATION	1337	
TOTAL		

*Excess excavation to become the property of the contractor and shall be disposed of by him or no cost to the project.

NO REVISIONS	REVISED	VOID	AS CONSTRUCTED
REGIONAL OFFICE REGION NO.			DIVISION COLORADO
PROJECT NO. MG 4058(3)			SHEET NO. 6

1. TALKED IN THE COUNTRY OF THE 1900.

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11 1100000
10 1000000
9 900000
8 800000
7 700000
6 600000
5 500000
4 400000
3 300000
2 200000
1 100000
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CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-822-1837
"534-5700" (T)
FOR THE UTILITY SERVICE
FOR THE UTILITY SERVICE
FOR THE UTILITY SERVICE

KNOW UTILITIES WITHIN THE LIMITS OF THIS PROJECT ARE:
SEWER, WATER, GAS, CABLE, AND TELEPHONE. ALL UTILITIES
SHOWN ON THIS PLAN ARE BASED ON RECORD DRAWINGS AND
FIELD SURVEY. ANY CHANGES TO THESE UTILITIES
MUST BE MADE BEFORE CONSTRUCTION BEGINS.

STA. 31+00 TO STA. 32+00.17, REMOVE 125 IN. FI.
OF FENCE. AT 32+05 ADD 1 EACH END POST.

STA. 31+05 TO STA. 32+00.17
ADD BERM, SEE DETAIL ON THIS SHEET

STA. 31+05 TO STA. 32+00.17
ADD BERM, SEE DETAIL ON THIS SHEET

STA. 31+00 TO 34+80, RT. & LT.
REQUIRED 210' SQ. YDS. OF CONCRETE BERMWAY

STA. 31+00 TO 34+80, RT. & LT.
REQUIRED 110 TONS AC. (CL. 7) (SPEC.)

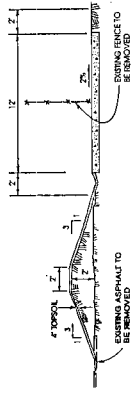
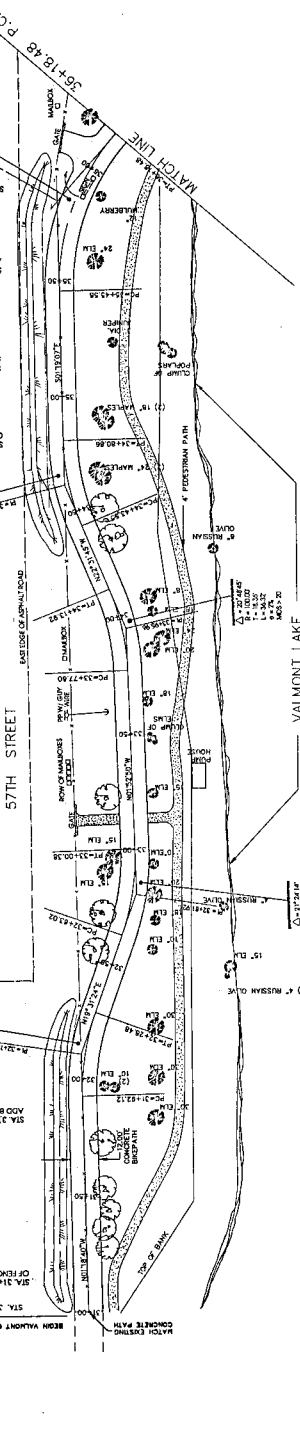
STA. 34+00 TO STA. 35+00.17, REMOVE 175 IN. FI.
OF FENCE. ADD 2 END POSTS 1 AT EACH END.

STA. 34+00 TO STA. 35+00.17,
REMOVE 20 SQ. YD. OF ASPHALT

STA. 34+00 TO STA. 35+00.17,
ADD BERM, SEE DETAIL THIS SHEET

STA. 34+05, RESET GROUND SIGN, RT.

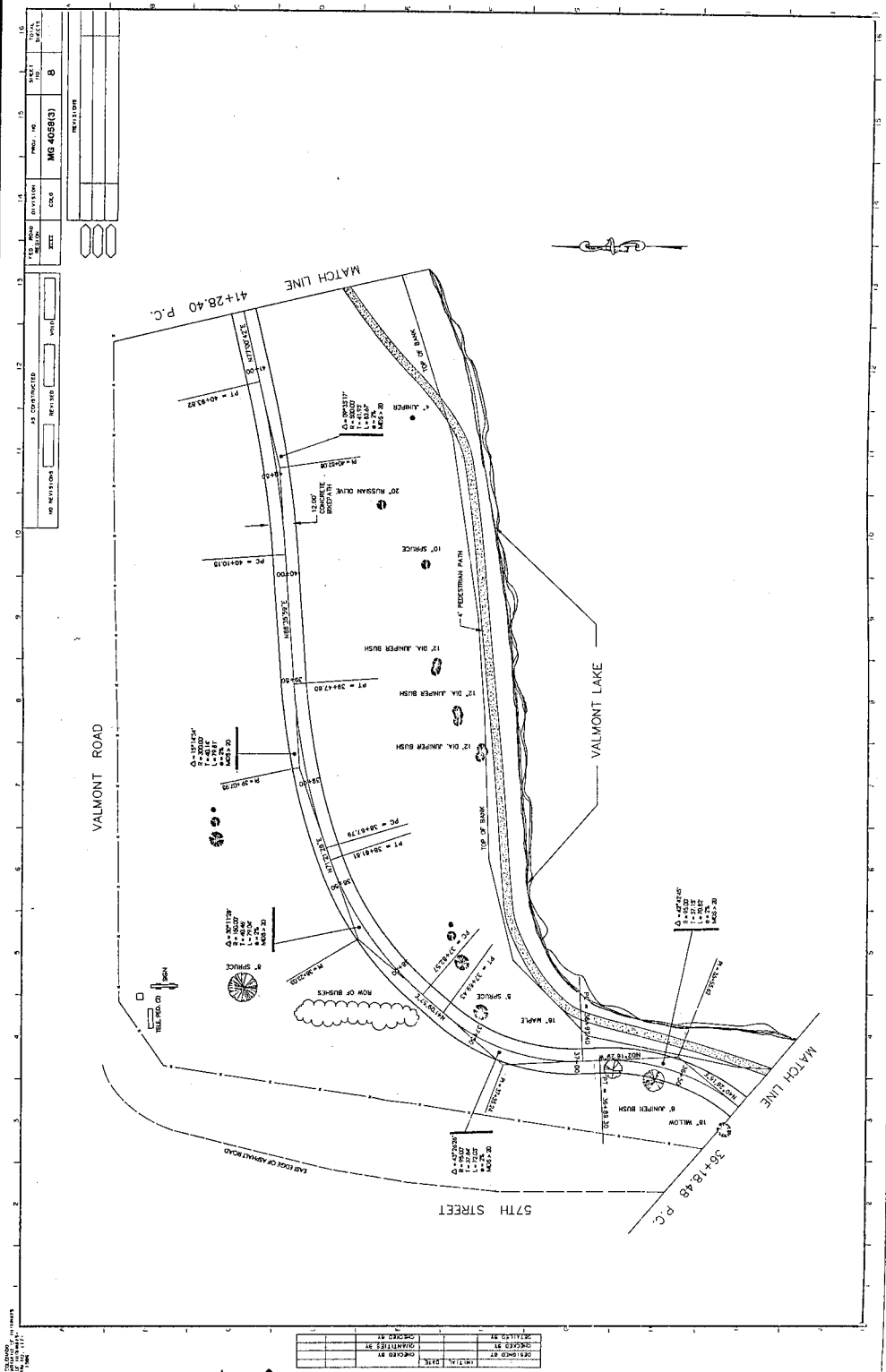
STA. 34+05, RESET GROUND SIGN, RT.

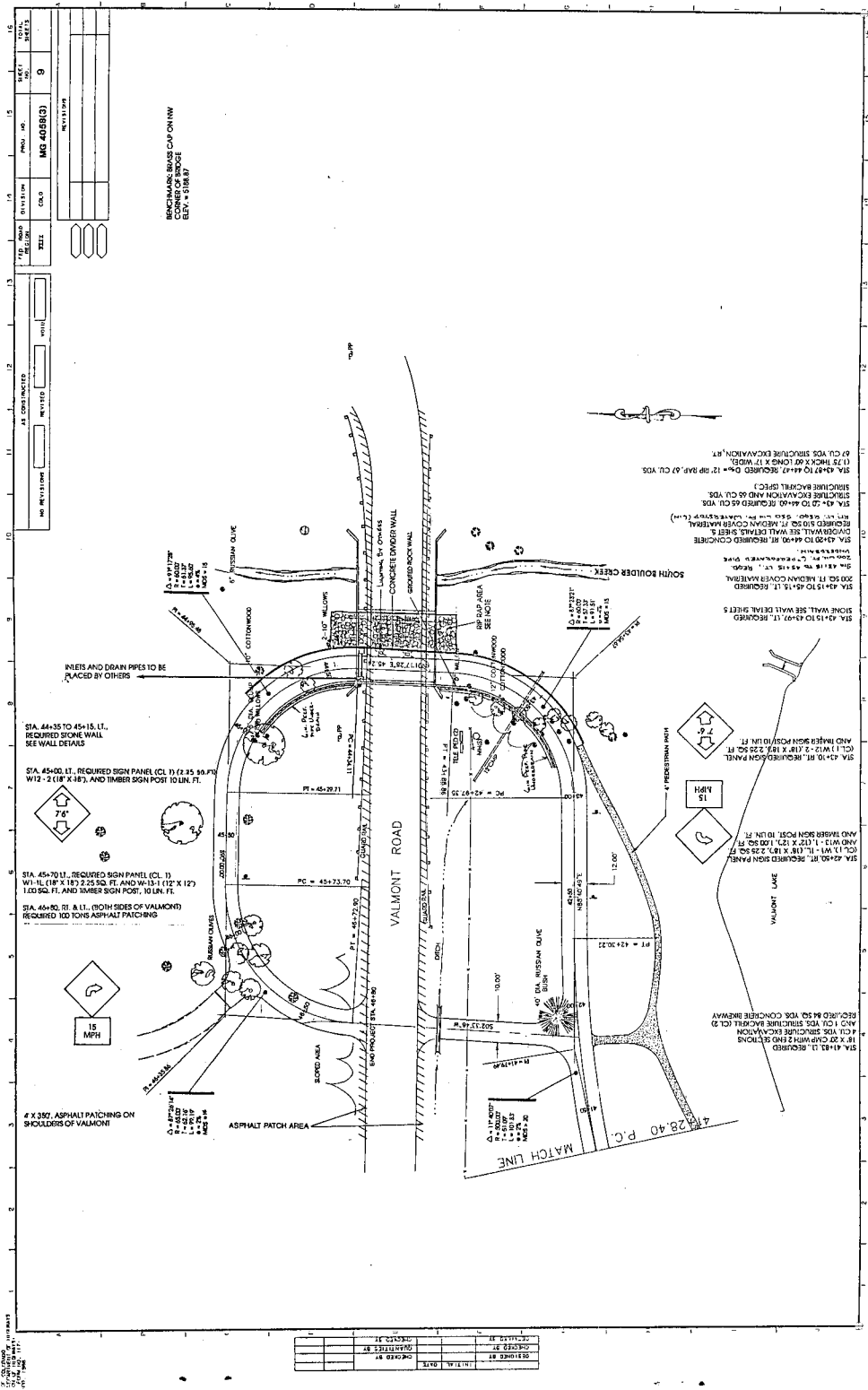


BERM DETAIL
STA. 31+05 TO STA. 32+00.17
STA. 34+00 TO 34+80.17

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20
AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED	AS CONTRACTED
NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20
NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10	NO. 11	NO. 12	NO. 13	NO. 14	NO. 15	NO. 16	NO. 17	NO. 18	NO. 19	NO. 20

NO.	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE BERMWAY	210	SQ. YDS.
2	CONCRETE BERM	110	TONS
3	FENCE	1	LINEAL FT.
4	END POSTS	2	EA.
5	GROUND SIGN	1	EA.
6	ASPHALT	20	SQ. YDS.
7	BERMWAY	1	LINEAL FT.
8	CONCRETE BERMWAY	1	LINEAL FT.
9	CONCRETE BERMWAY	1	LINEAL FT.
10	CONCRETE BERMWAY	1	LINEAL FT.
11	CONCRETE BERMWAY	1	LINEAL FT.
12	CONCRETE BERMWAY	1	LINEAL FT.
13	CONCRETE BERMWAY	1	LINEAL FT.
14	CONCRETE BERMWAY	1	LINEAL FT.
15	CONCRETE BERMWAY	1	LINEAL FT.
16	CONCRETE BERMWAY	1	LINEAL FT.
17	CONCRETE BERMWAY	1	LINEAL FT.
18	CONCRETE BERMWAY	1	LINEAL FT.
19	CONCRETE BERMWAY	1	LINEAL FT.
20	CONCRETE BERMWAY	1	LINEAL FT.





NO. REVISION	REVISION	DIVISION	PROJECT NO.	SHEET
		MG 4058(3)	10	

REVISIONS	

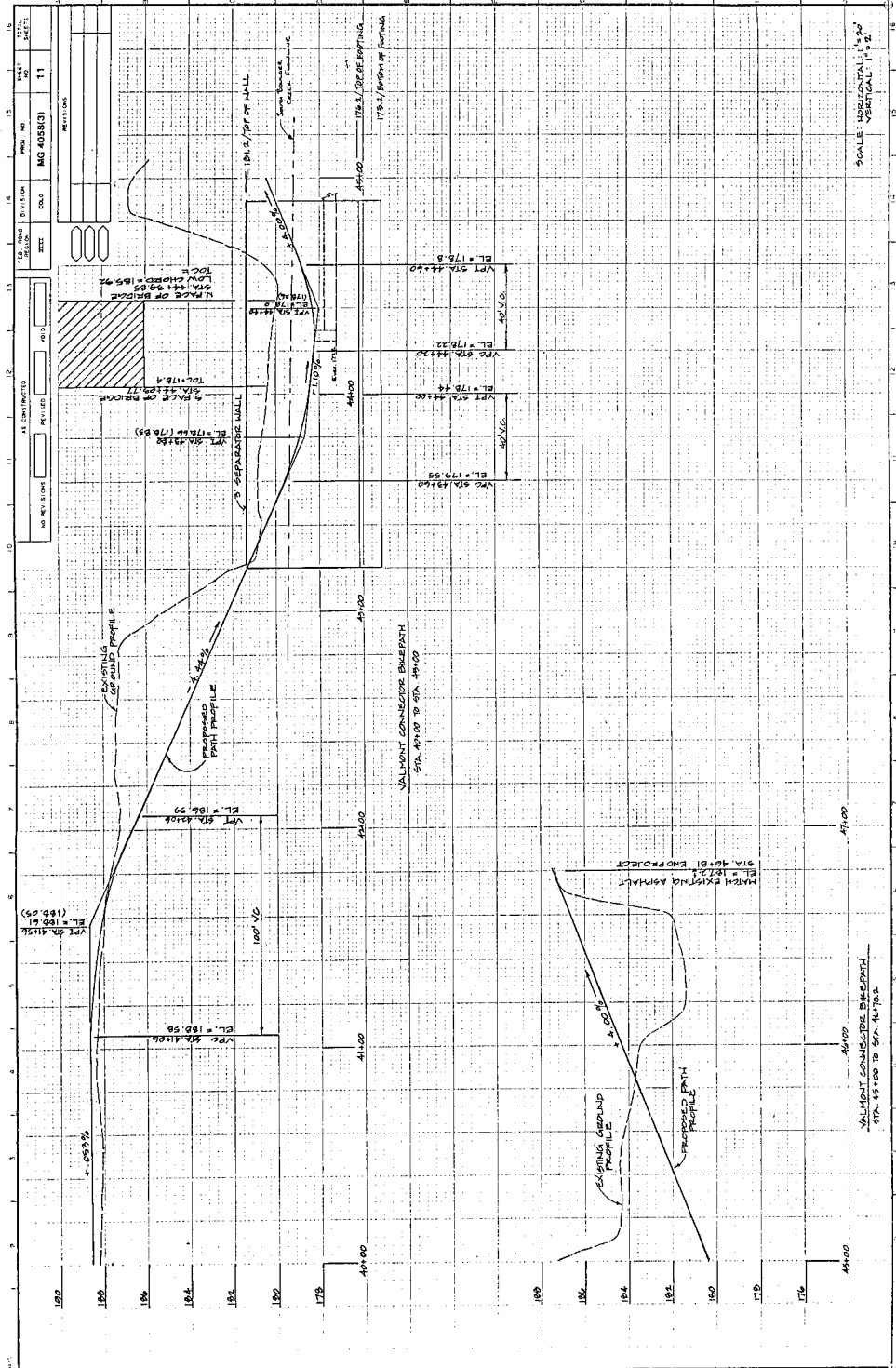


VALMONT CONNECTOR BIKEPATH
STA. 29+00 TO STA. 30+00

VALMONT CONNECTOR BIKEPATH
STA. 30+00 TO STA. 40+00

SCALE: HORIZONTAL: 1" = 20'
VERTICAL: 1" = 2'

DESIGNED BY	CHECKED BY	DATE



SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

DATE	10/10/10
BY	10/10/10
CHECKED BY	10/10/10
APPROVED BY	10/10/10
DESIGNED BY	10/10/10
SCALE	1" = 20'