TO NOTIFY UNCC MEMBER UTILITIES
BEFORE YOU DIG
CALL
1-800-922-1987
UTILITY NOTIFICATION CENTER OF COLORADO

JEFFERSON COUNTY
DIVISION OF HIGHWAYS AND TRANSPORTATION
DIVISION OF PUBLIC WORKS

FINAL CONCEPTUAL PLANS
DECEMBER 9, 2004

CONCEPTUAL PLANS

WEST CHATFIELD AVENUE CORRIDOR STUDY
WEST KEN CARYL AVENUE TO SOUTH KENDALL BOULEVARD

JEFFERSON COUNTY PROJECT NUMBER 5-69-33-3524

STA. 153+50
BEGIN PROJECT
NO. 5-69-33-3524

TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY	
	FEET	MILES
W. KEN CARYL AVENUE TO S. KIPLING PARKWAY BEGIN PROJECT STA. 153+00.00 END PROJECT STA. 383+00.00	23,000	4.35
TOTALS	~~23000~~	~~4.35~~

DESIGN DATA

W. KEN CARYL AVENUE TO S. KIPLING PARKWAY

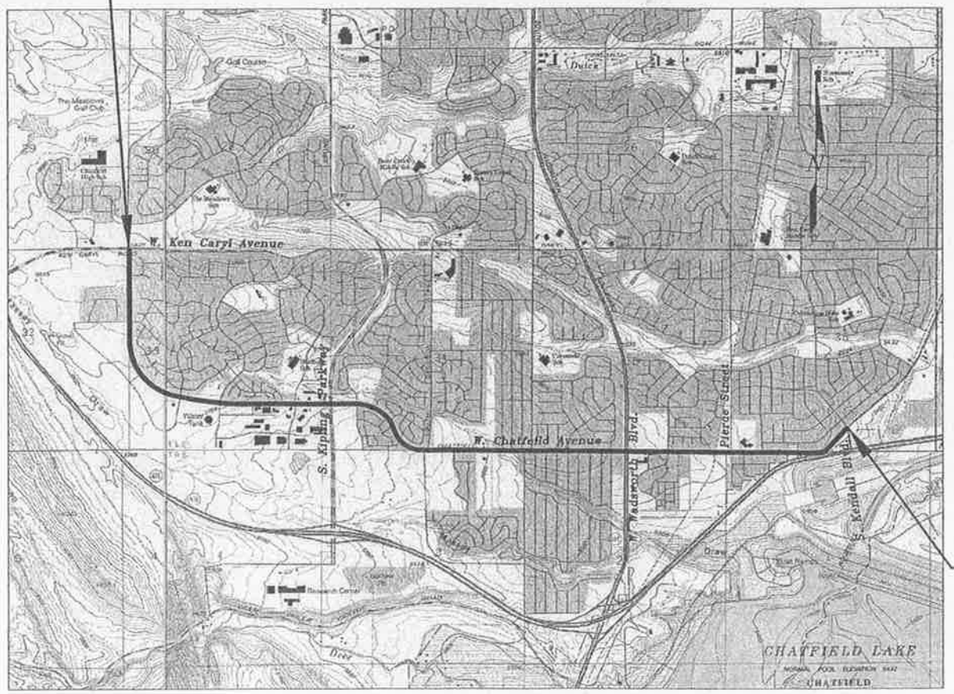
MINIMUM DESIGN SPEED	40 MPH
MAXIMUM GRADE	8.51% (COUNTY CRITERIA 6.0%)
MINIMUM GRADE	0.45% (COUNTY CRITERIA 1.0%)
MINIMUM S.S.D HORIZONTAL	>325'
MINIMUM S.S.D VERTICAL	360'
MINIMUM RADIUS OF CURVE	1,000'
2025 ADT	17,000 VPD

S. KIPLING PARKWAY TO S. WADSWORTH BLVD.

MINIMUM DESIGN SPEED	40 MPH
MAXIMUM GRADE	5.99%
MINIMUM GRADE	0.8%
MINIMUM S.S.D HORIZONTAL	>325'
MINIMUM S.S.D VERTICAL	422'
MINIMUM RADIUS OF CURVE	750'
2025 ADT	18,000 VPD

S. WADSWORTH BLVD. TO S. KENDALL BLVD.

MINIMUM DESIGN SPEED	35 MPH
MAXIMUM GRADE	2.98%
MINIMUM GRADE	1.03%
MINIMUM S.S.D HORIZONTAL	>250'
MINIMUM S.S.D VERTICAL	735'
MINIMUM RADIUS OF CURVE	415'
2025 ADT	20,500 VPD (WADSWORTH TO PIERCE) 13,400 VPD (PIERCE TO KENDALL)



STA. 383+00
END PROJECT
NO. 5-69-33-3524

VICINITY MAP
1"=4,000'

SCALE NOTE FOR ENTIRE PLAN SET
LINE IS 1 INCH AT ORIGINAL SCALE
(IF NOT 1 INCH SCALE ACCORDINGLY)

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET
2 – 3	TYPICAL SECTIONS
4 – 30	PLAN AND PROFILE SHEETS
31	SURVEY CONTROL DIAGRAM
32 – 85	CROSS SECTION SHEETS

PREPARED BY:
MULLER ENGINEERING CO., INC.
CONSULTING ENGINEERS
IRONGATE 4, SUITE 100
777 S. WADSWORTH BLVD. 4-100
LAKEWOOD, COLORADO 80226
(303) 988-4939

MULLER

Computer File Information			
Creation Date:	11/22/03	Initials:	CLJ
Last Modification Date:	12/9/04	Initials:	CLJ
Full Path:	P:\03018CHATFEILD\DWG		
Drawing File Name:	03018-CVR		
Acad Ver.	2000i	Scale: AS SHOWN	Units: English

Index of Revisions

JEFFERSON COUNTY
DIVISION OF HIGHWAYS AND TRANSPORTATION

As Constructed
No Revisions:
Revised:
Void:

Contract Information
Contractor:
Resident Engineer: LRP
Project Engineer: AGC
PROJECT STARTED: ACCEPTED:
Comments:

Project No./Code
5-69-33-3524

Sheet Number 1

DATE: DEC 09, 2004 TIME: 4:08 PM
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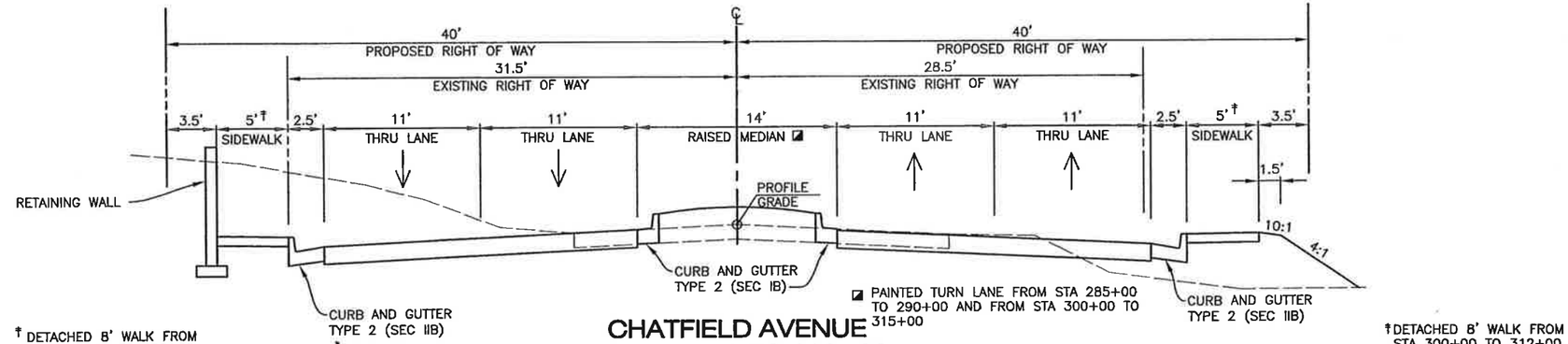
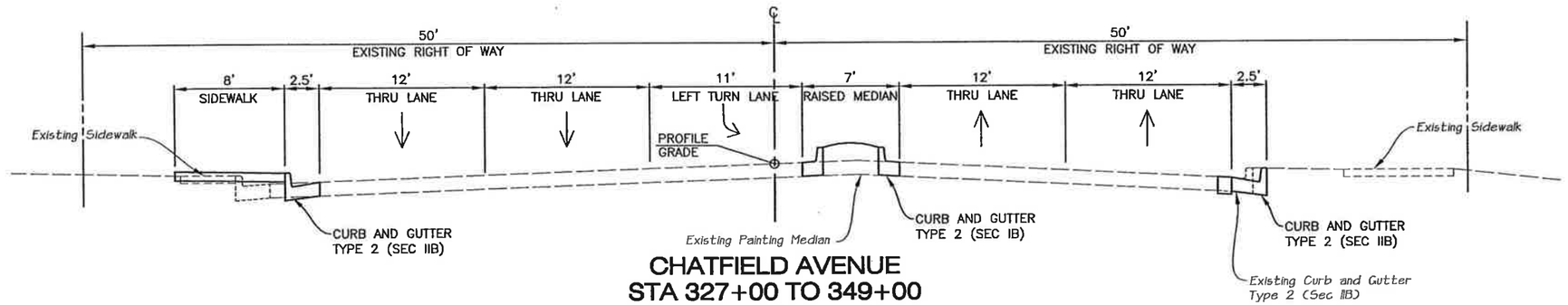


† DETACHED 8' WALK FROM STA 284+00 TO 288+00 AND STA 297+00 TO 320+00

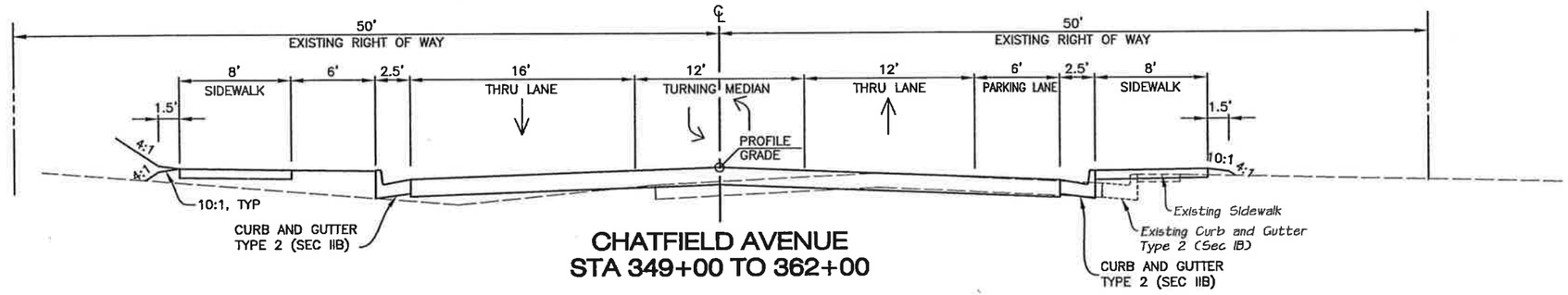
◪ PAINTED TURN LANE FROM STA 285+00 TO 290+00 AND FROM STA 300+00 TO 315+00

† DETACHED 8' WALK FROM STA 300+00 TO 312+00

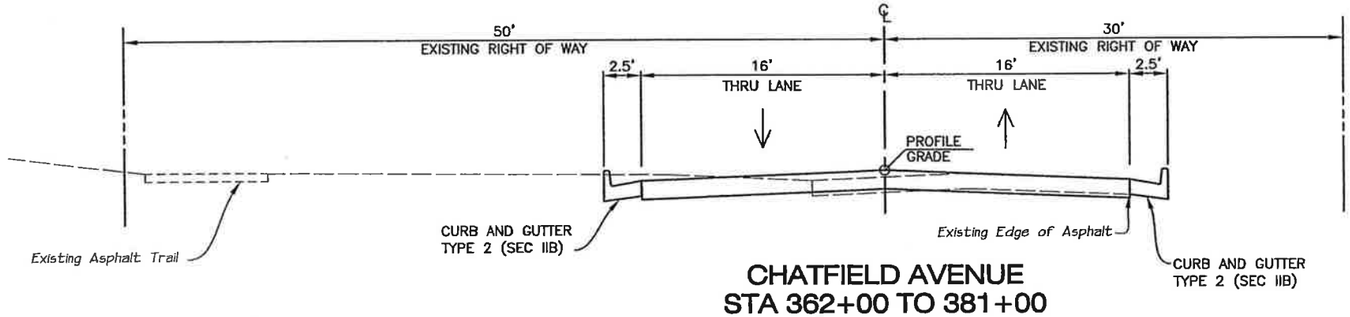
CHATFIELD AVENUE
STA 276+00 TO 318+00



CHATFIELD AVENUE
STA 327+00 TO 349+00



CHATFIELD AVENUE
STA 349+00 TO 362+00



CHATFIELD AVENUE
STA 362+00 TO 381+00

NO.	DATE	REVISIONS	APPR.

MULLER ENGINEERING CO., INC.
CONSULTING ENGINEERS
IRONGATE 4, SUITE 100
777 S. WADSWORTH BLVD.
LAKEWOOD, COLORADO 80226
(303) 988-4039
MEC PROJECT NO. 01-037.01

SCALE:	1"=10'	APPROVED:	
DATE:	5/13/04	DESIGNED:	LRP
DRAWN:	CLJ	CHECKED:	

JEFFERSON COUNTY
DIVISION OF HIGHWAYS AND TRANSPORTATION

CHATFIELD AVENUE CORRIDOR

TYPICAL SECTIONS

JEFFCO PROJECT NO. 5-69-09-3444

SHEET 3

NAME: P:\03-018 Chatfield Corridor Study\DWG\03018-TYP.dwg SHT 2 DATE: MAY 13, 2004 TIME: 9:08 AM

KUYKENDALL CHRISTOPHER

FATTORE JODY J

HUFF KEITH A

KINDER-CARE LEARNING CENTERS INC

ARCHDIOCESE OF DENVER

Columbine Hills

ARCHDIOCESE OF DENVER

Herrick-Dale

CLARK DANIEL R

WILSON ROBERT L

WARNER TYLER A

DODSON CRAIG H

LUMBERMENS INVESTMENT CORPORATION

WESTLAKE HOMEOWNERS ASSOCIATION INC

Westlake Highlands

MATCH LINE STA 343+00

MATCH LINE STA 352+00

344+00 345+00 346+00 347+00 348+00 349+00 350+00 351+00

S Quay St

S Pierce St

W Chatfield Ave

Mostly Attached Walkway Proposed With Some Retaining Walls on Cut Slopes. Minimal Room For Right of Way Edge Plating. Evaluate What Landscape Mitigation Might Be Appropriate For Church Frontage.

Existing Detached Walkway to Remain Here. Suggest Tree Lawn of Regular Street Tree Planting and Irrigated Pasture Grasses, No Planting at Right of Way Edge Recommended.

Connect to Existing Storm Sewer

Retaining Wall Max Wall Height=2.5' During Final Design, Evaluate Conflicts With Utilities. If Wall Tiebacks Conflict, Use Structural Walls, Typical of All Walls.

Existing Sidewalk Chase

Existing Curb and Gutter

Existing ROW

CURB AND GUTTER

8' SIDEWALK

INLET

Project Control Line/ Section Line

N89°47'48"E 2722.60'

Dc=01°30'00.00" R=3819.72'

100' STORAGE

360' STORAGE

260' DECEL

18"-24" STM

30"-36" STM

Existing Edge of Asphalt

Existing Inlet

Existing FES

Existing Detention Pond

PC STA 345+45.00

PRC STA 347+08.13

PT STA 348+72.50

PI STA 348+90.74

LEGEND

EXISTING SIGNALIZED INTERSECTION
EXISTING TRAFFIC SIGNAL POLE
EXISTING STORM SEWER LINE
EXISTING CULVERT/ FLARED END SECTION
PROPOSED STORM SEWER/FES
PROPOSED INLET
PROPOSED MANHOLE
EXISTING TREES AND SHRUBS
EXISTING CURB AND GUTTER
PROPOSED CURB AND GUTTER
EXISTING RIGHT OF WAY
PROPOSED RIGHT OF WAY
SECTION LINE
LIMIT OF CUT
LIMIT OF FILL
PROPOSED RETAINING WALL
EXISTING SIDEWALK
PROPOSED SIDEWALK (5')
PROPOSED SIDEWALK (8')
PROPOSED LANDSCAPING OPPORTUNITY
PROPOSED MEDIAN EDGING/MEDIAN COVER MATERIAL

5570 5560 5550 5540 5530 5520 5510

MATCH LINE STA 343+00

Existing Ground

APPROXIMATE EXISTING PROFILE

VPC STA 344+85.00
ELEV 5555.85

VPI STA 346+35.00
ELEV 5553.58

VPI STA 347+85.00
ELEV 5549.11

300.00' V.C.
K =205.63
SSD=889.698
Crest

-2.98%

PROPOSED GRADE LINE

FULL DEPTH RECONSRUCTION

MATCH LINE STA 352+00

343+00 344+00 345+00 346+00 347+00 348+00 349+00 350+00 351+00 352+00

NO.	DATE	REVISIONS	APPR.

MULLER ENGINEERING CO., INC.
CONSULTING ENGINEERS
IRONGATE 4, SUITE 100
777 S. WADSWORTH BLVD.
LAKEWOOD, COLORADO 80226
(303) 988-4939
MEC PROJECT NO. 01-037.01

SCALE:	1"=60'
DATE:	5/17/04
DRAWN:	CLJ
APPROVED:	AGC
DESIGNED:	LRP
CHECKED:	

Jefferson County Colorado

JEFFERSON COUNTY
DIVISION OF HIGHWAYS AND TRANSPORTATION

CHATFIELD AVENUE CORRIDOR

PLAN AND PROFILE STA 343+00 TO 352+00

JEFFCO PROJECT NO. 5-69-09-3444

SHEET 26

x P:\03-018 Chatfield ...idor Study\DWG\X03018-PR.DWG x X03018-UTIL.dwg x X03018-raw.dwg
NAME: P:\03-018 Chatfield Corridor Study\DWG\03018-PLN.dwg 23 DATE: MAY 17, 2004 TIME: 9:37 AM

Columbine Hills

ARCHDIOCESE OF DENVER

PARISH OF SAINT GREGORY

SANGALINE MICHAEL B

CLOSE STUART M

JOHNSON NANCY V

PAVLAT GERALD

BOONE DANIEL W

UNITED STATES OF AMERICA

353+00 354+00 355+00 356+00 357+00 358+00 359+00 360+00

MATCH LINE STA 352+00

MATCH LINE STA 361+00

S Marshall Ct

W Chatfield Ave

Existing FES

Existing ROW

INLET

CURB AND GUTTER

8' SIDEWALK

Project Control Line

N89°44'49"E 1,380.64'

42"-48" STM

30"-36" STM

Existing Curb and Gutter

Existing Edge of Asphalt

EXISTING ROW

Mostly Detached Walkway. Suggest Tree Lawn With Regular Spaced Planting of Street Trees and Irrigated Pasture Lawn Grasses. Shrub Planting Recommended Along Privacy Fences Where it is Wider Than 4 Feet.

Existing Attached Walkway is Widened Along Residential Front Yard Frontages. Some Lot by Lot Landscape Mitigation Landscape May be Appropriate. Suggest Large Deciduous Tree Planting Along Walk Edge on Private Property (to be Maintained By Property Owners).

Add Left Turn Lane

Maintain Parking in Front of Homes

WARNER TYLER A

Newland St.

TINNEL LINDA

DECHANT JOHN R

BENDER KIMI E

STONE MATTHEW P

HANSON ROBERT D

FOSTER OLIVER

TAYLOR OWEN M

SECRETARY OF HOUSING & URBAN DEVELOPMENT

HEASTON ROBERT P

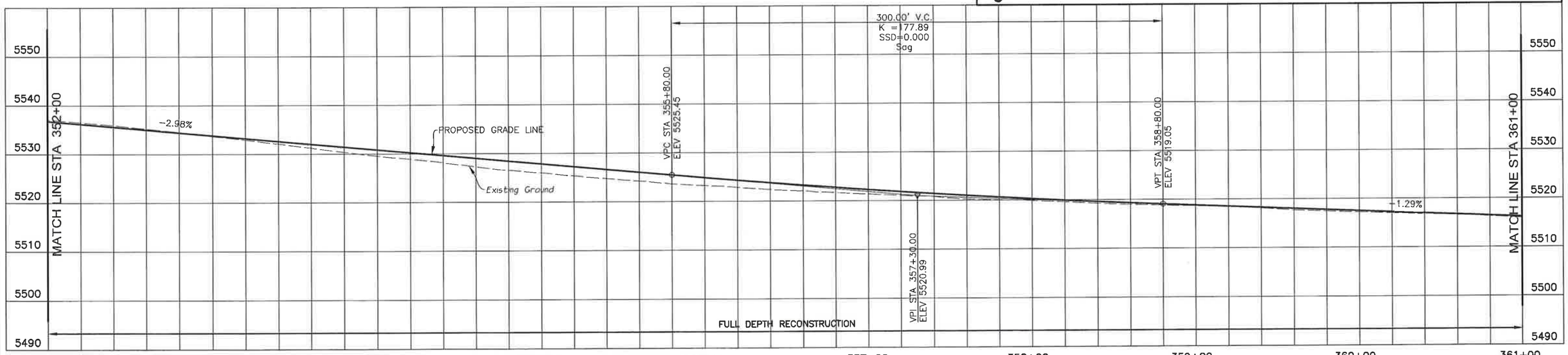
ARCHULETA LEONDRO

UNITED STATES OF AMERICA

Herrick-Dale

LEGEND

- EXISTING SIGNALIZED INTERSECTION
- EXISTING TRAFFIC SIGNAL POLE
- EXISTING STORM SEWER LINE
- EXISTING CULVERT/ FLARED END SECTION
- PROPOSED STORM SEWER/FES
- PROPOSED INLET
- PROPOSED MANHOLE
- EXISTING TREES AND SHRUBS
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- SECTION LINE
- LIMIT OF CUT
- LIMIT OF FILL
- PROPOSED RETAINING WALL
- EXISTING SIDEWALK
- PROPOSED SIDEWALK (5')
- PROPOSED SIDEWALK (8')
- PROPOSED LANDSCAPING OPPORTUNITY
- PROPOSED MEDIAN EDGING/MEDIAN COVER MATERIAL



NO.	DATE	REVISIONS	APPR.

MULLER ENGINEERING CO., INC.
CONSULTING ENGINEERS
IRONGATE 4, SUITE 100
777 S. WADSWORTH BLVD.
LAKEWOOD, COLORADO 80226
(303) 988-4939
MEC PROJECT NO. 01-037.01

SCALE:	1"=60'
DATE:	5/17/04
DRAWN:	CLJ
APPROVED:	AGC
DESIGNED:	LRP
CHECKED:	

Jefferson County Colorado

JEFFERSON COUNTY
DIVISION OF HIGHWAYS AND TRANSPORTATION

CHATFIELD AVENUE CORRIDOR

PLAN AND PROFILE
STA 352+00 TO 361+00

JEFFCO PROJECT NO. 5-69-09-3444

SHEET 27

x P:\03-018 Chatfield ... dor Study\DWG\X03018-PR.DWG x X03018-UTIL.dwg x X03018-row.dwg
NAME: P:\03-018 Chatfield Corridor Study\DWG\03018-PLN.dwg 24 DATE: MAY 17, 2004 TIME: 9:37 AM

Columbine Hills

Herrick-Dale

UNITED STATES OF AMERICA

HUBER RICHARD B

HALBERT PAMELA J

WINKS CHARLES L

DRAKE ALLAN E

GARCIA MARTIN R

FULLEN GEORGE R JR

HOBSON MARION B

BOWMAN CALVIN D

CHRISTENSEN BARRIE D

WARREN RICHARD W

362+00 | 363+00 | 364+00 | 365+00 | 366+00 | 367+00 | 368+00 | 369+00

MATCH LINE STA 361+00

MATCH LINE STA 370+00

42" STEEL

8' SIDEWALK

Existing S.W.C. Outlet

42"-48" STM

Project Control Line

Existing Edge of Asphalt

CURB AND GUTTER

C-470 TRAIL

Existing ROW

Existing Curb and Gutter

Dc=01°30'00", R=3819.72'

W Chatfield Ave

N89°44'45"E
579.04'

INLET

S Lamar St

PC STA 362+48.46

PRC STA 364+11.99

PT STA 365+75.52

Suggest Regular Street Tree Planting With Irrigated Pasture Lawn Grasses. No Planting Recommended at Right of Way Edge Along Undeveloped Areas.

KNIPPRATH JANET

CAMPBELL SHARON L

LEGEND

- EXISTING SIGNALIZED INTERSECTION
- EXISTING TRAFFIC SIGNAL POLE
- EXISTING STORM SEWER LINE
- EXISTING CULVERT/ FLARED END SECTION
- PROPOSED STORM SEWER/FES
- PROPOSED INLET
- PROPOSED MANHOLE
- EXISTING TREES AND SHRUBS
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- SECTION LINE
- LIMIT OF CUT
- LIMIT OF FILL
- PROPOSED RETAINING WALL
- EXISTING SIDEWALK
- PROPOSED SIDEWALK (5')
- PROPOSED SIDEWALK (8')
- PROPOSED LANDSCAPING OPPORTUNITY
- PROPOSED MEDIAN EDGING/MEDIAN COVER MATERIAL

5530 / 5520 / 5510 / 5500 / 5490 / 5480 / 5470

MATCH LINE STA 361+00

PROPOSED GRADE LINE

-1.29%

Existing Ground

VPC STA 363+50.00
ELEV 5512.99

VPI STA 366+00.00
ELEV 5509.76

500.00' V.C.
K =1426.94
SSD=3329.767
Crest

VPI STA 368+50.00
ELEV 5505.66

-1.64%

VPC STA 369+50.00
ELEV 5504.02

300.00' V.C.
K =492.98
SSD=0.000
Sag

MATCH LINE STA 370+00

FULL DEPTH RECONSTRUCTION

361+00 | 362+00 | 363+00 | 364+00 | 365+00 | 366+00 | 367+00 | 368+00 | 369+00 | 370+00

NO.	DATE	REVISIONS	APPR.

MULLER ENGINEERING CO., INC.
CONSULTING ENGINEERS
IRONGATE 4, SUITE 100
777 S. WADSWORTH BLVD.
LAKEWOOD, COLORADO 80226
(303) 988-4939
MEC PROJECT NO. 01-037.01

SCALE:	1"=60'
DATE:	5/17/04
DRAWN:	CLJ
APPROVED:	AGC
DESIGNED:	LRP
CHECKED:	

JEFFERSON COUNTY
DIVISION OF HIGHWAYS AND TRANSPORTATION

CHATFIELD AVENUE CORRIDOR

PLAN AND PROFILE
STA 361+00 TO 370+00

JEFFCO PROJECT NO. 5-69-09-3444

SHEET 28

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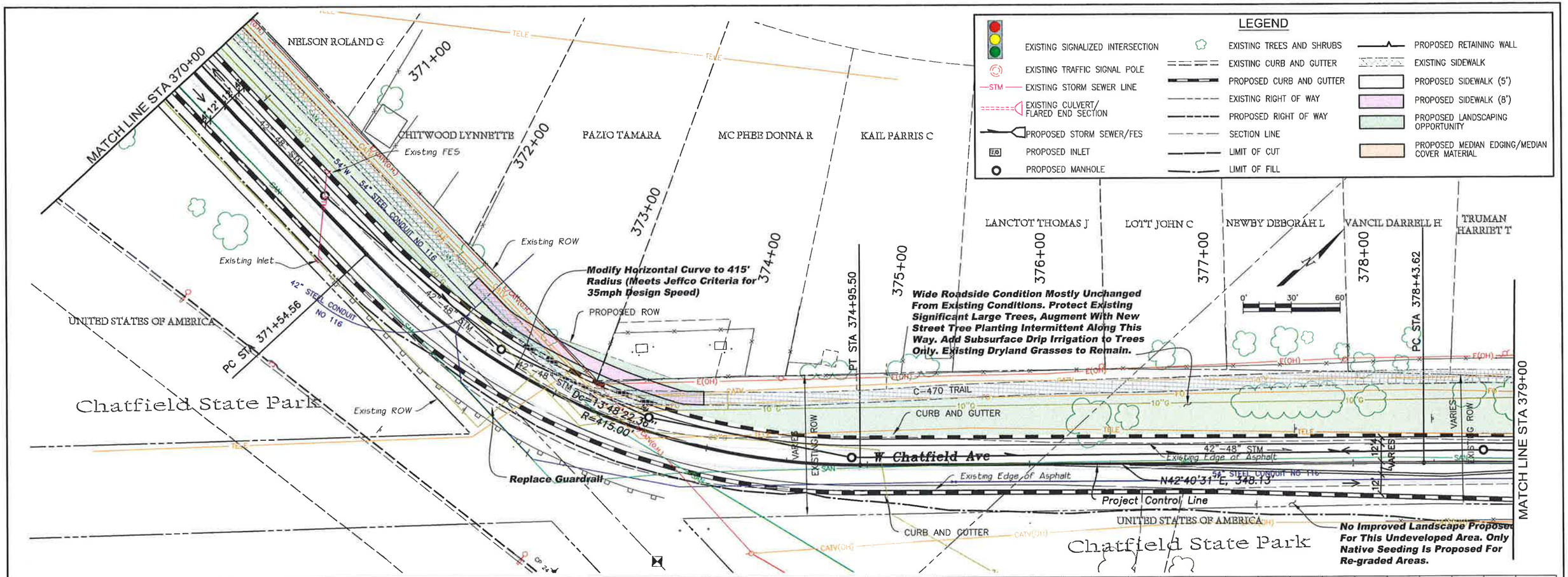

NO.	DATE	REVISIONS	APPR.

MULLER ENGINEERING CO., INC.
CONSULTING ENGINEERS
IRONGATE 4, SUITE 100
777 S. WADSWORTH BLVD.
LAKEWOOD, COLORADO 80226
(303) 988-4939
MEC PROJECT NO. 01-037.01

SCALE:	1"=60'
DATE:	5/17/04
DRAWN:	CLJ
APPROVED:	AGC
DESIGNED:	LRP
CHECKED:	

JEFFERSON COUNTY
DIVISION OF HIGHWAYS AND TRANSPORTATION

CHATFIELD AVENUE CORRIDOR

PLAN AND PROFILE
STA 370+00 TO 379+00

JEFFCO PROJECT NO. 5-69-09-3444

SHEET 29

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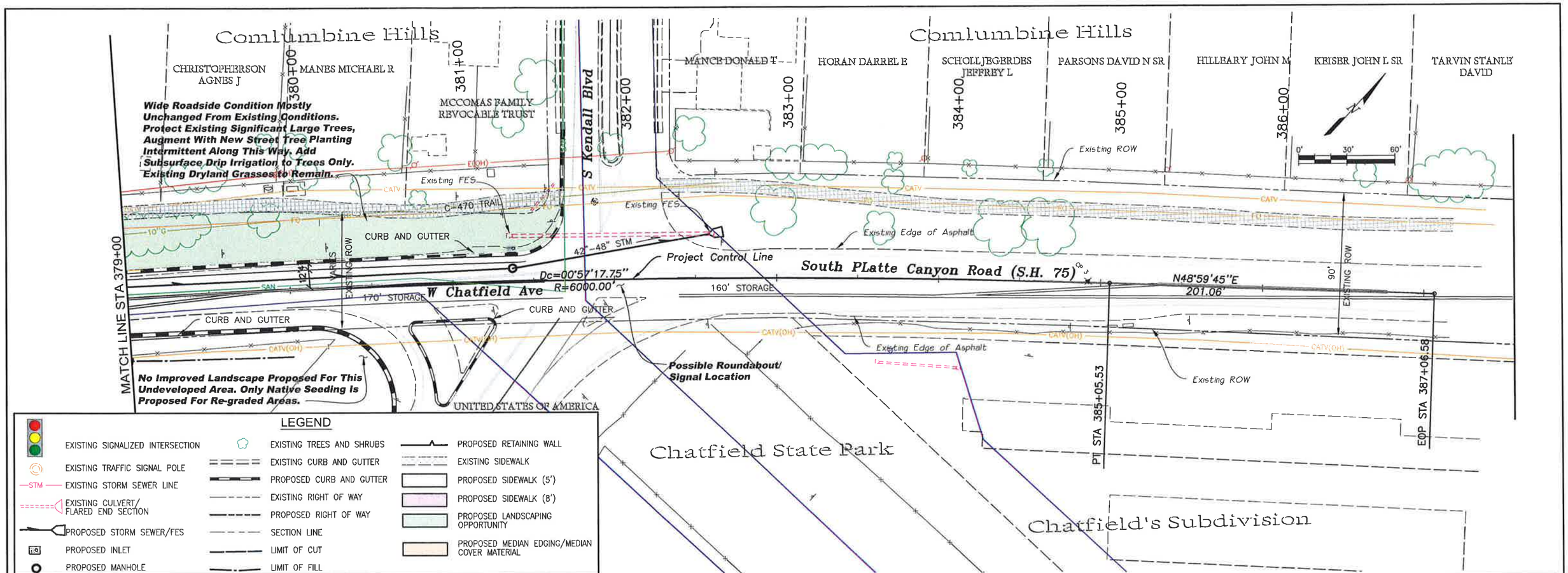

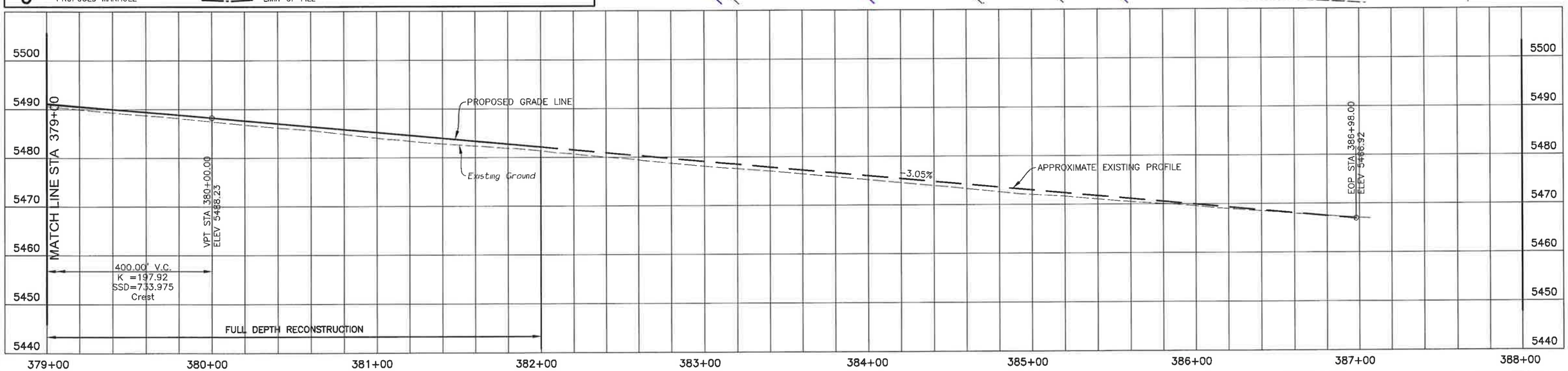

NO.	DATE	REVISIONS	APPR

MULLER ENGINEERING CO., INC.
CONSULTING ENGINEERS
IRONGATE 4, SUITE 100
777 S. WADSWORTH BLVD.
LAKEWOOD, COLORADO 80226
(303) 988-4939
MEC PROJECT NO. 01-037.01

SCALE:	1"=60'	APPROVED:	AGC
DATE:	5/17/04	DESIGNED:	LRP
DRAWN:	CLJ	CHECKED:	

JEFFERSON COUNTY
DIVISION OF HIGHWAYS AND TRANSPORTATION

CHATFIELD AVENUE CORRIDOR
PLAN AND PROFILE
STA 379+00 TO 386+98.55

JEFFCO PROJECT NO. 5-69-09-3444

SHEET 30

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NAME: P:\03-018 Chatfield Corridor Study\DWG\03018-PLN.dwg 27 DATE: MAY 17, 2004 TIME: 9:37 AM

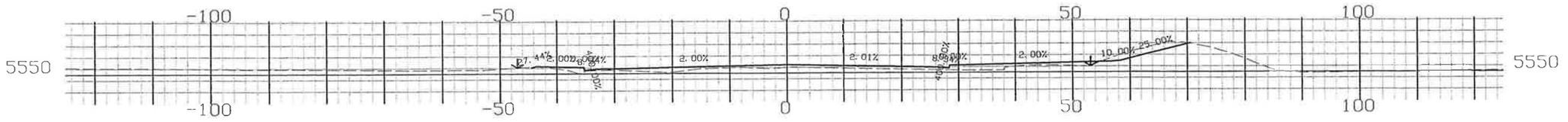
CROSS SECTIONS

SCALE- 1 IN. = 10 FT. HORIZ.
1 IN. = 10 FT. VERT.

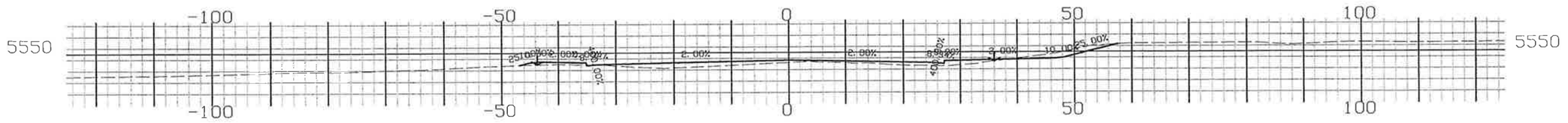
FED ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
11	COLORADO	03018	76

AS CONSTRUCTED
NO REVISIONS ☐ REVISED ☐ VOID ☐

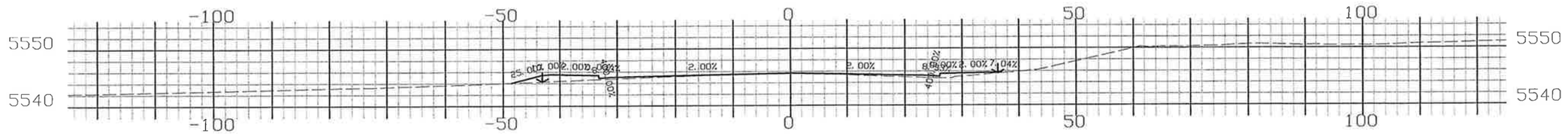
EXCAVATION CU YDS AREA
EMBANKMENT CU YDS AREA



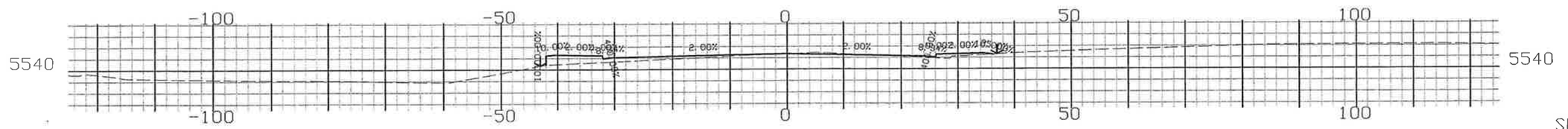
347+00.000
CHATFIELD



348+00.000
CHATFIELD



349+00.000
CHATFIELD



350+00.000
CHATFIELD

SHEET TOTALS
EXCAVATION CU. YDS.
EMBANKMENT CU. YDS.

CROSS SECTIONS

SCALE- 1 IN. = 10 FT. HORIZ.
1 IN. = 10 FT. VERT.

FED ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
II	COLORADO	03018	77

AS CONSTRUCTED

NO REVISIONS ☐ REVISED ☐ VOID ☐

EXCAVATION		EMBANKMENT	
CU YDS	AREA	CU YDS	AREA

351+00.000

CHATFIELD

352+00.000

CHATFIELD

353+00.000

CHATFIELD

354+00.000

CHATFIELD

SHEET TOTALS

EXCAVATION CU. YDS.

EMBANKMENT CU. YDS.

CROSS SECTIONS

SCALE- 1 IN. = 10 FT. HORIZ.
1 IN. = 10 FT. VERT.

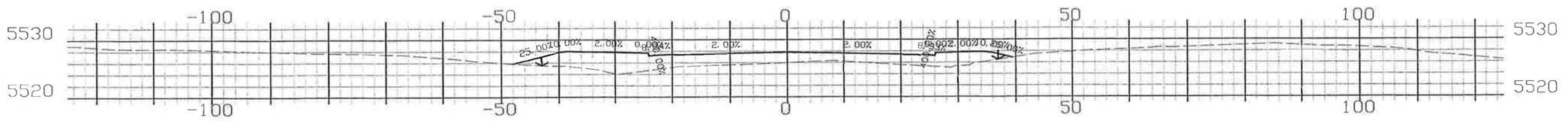
FED ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
11	COLORADO	03018	78

AS CONSTRUCTED

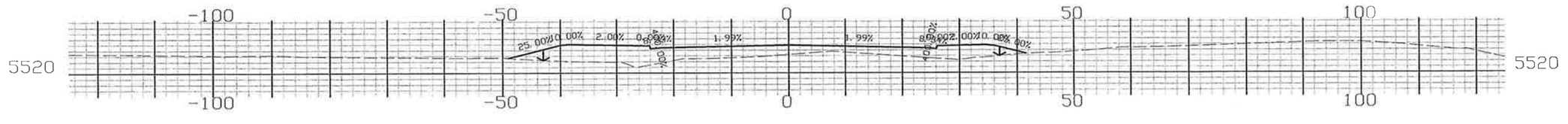
NO REVISIONS ☐ REVISED ☐ VOID ☐

EXCAVATION
CU YDS AREA

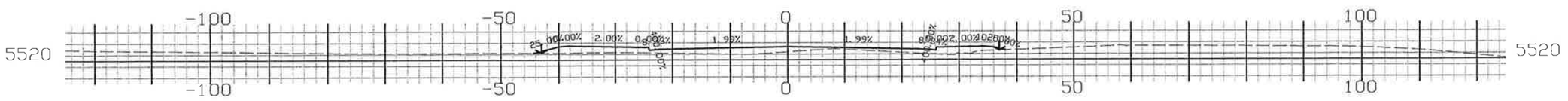
EMBANKMENT
CU YDS AREA



355+00.000
CHATFIELD



356+00.000
CHATFIELD



357+00.000
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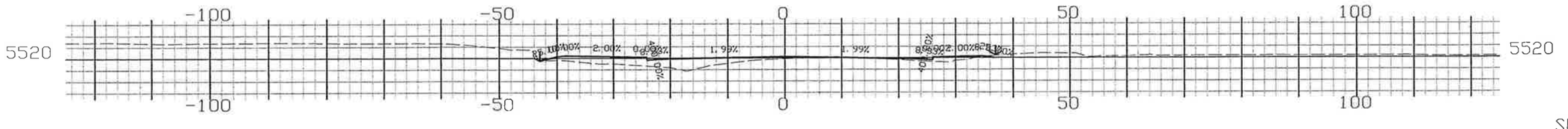


358+00.000
CHATFIELD

SHEET TOTALS

EXCAVATION CU. YDS.

EMBANKMENT CU. YDS.

CROSS SECTIONS

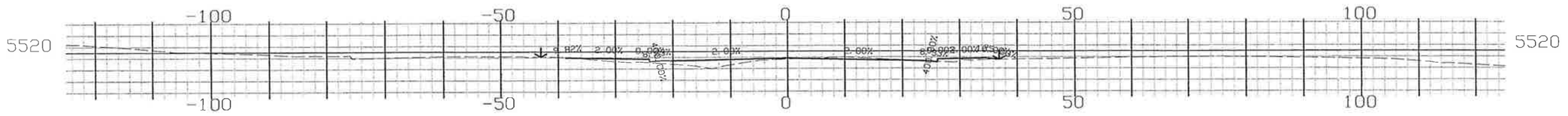
SCALE- 1 IN. = 10 FT. HORIZ.
1 IN. = 10 FT. VERT.

FED ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
II	COLORADO	03018	79

AS CONSTRUCTED
NO REVISIONS ☐ REVISED ☐ VOID ☐

EXCAVATION
CU YDS AREA

EMBANKMENT
CU YDS AREA



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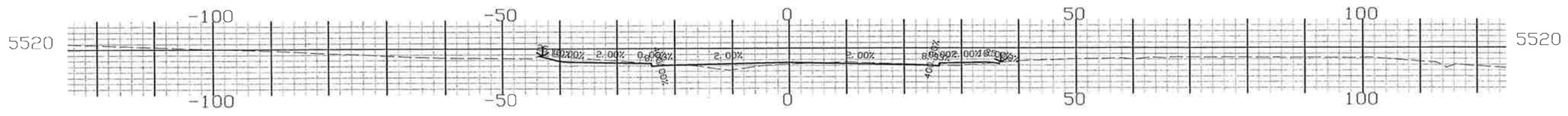

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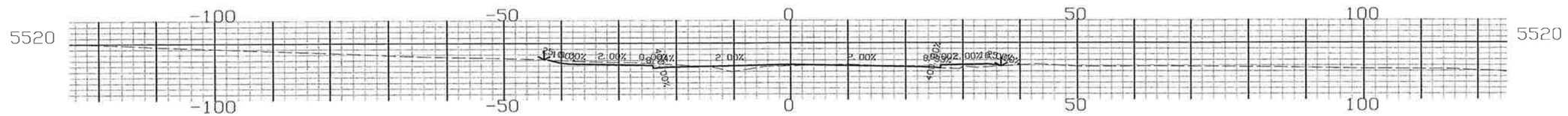

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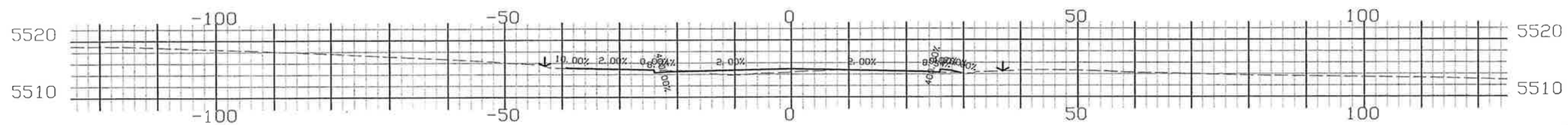

362+00.000
CHATFIELD

SHEET TOTALS
EXCAVATION CU. YDS.
EMBANKMENT CU. YDS.