

[illegible]

T6N, R66W, 6th P.M.

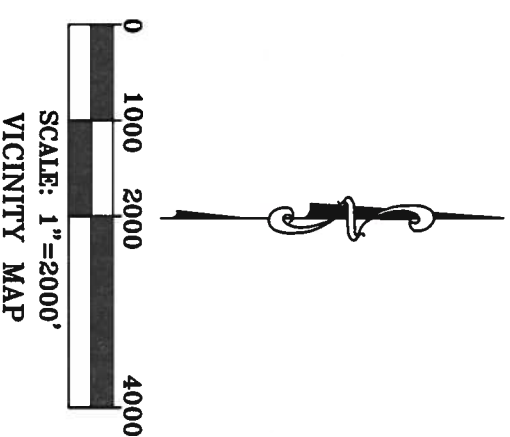
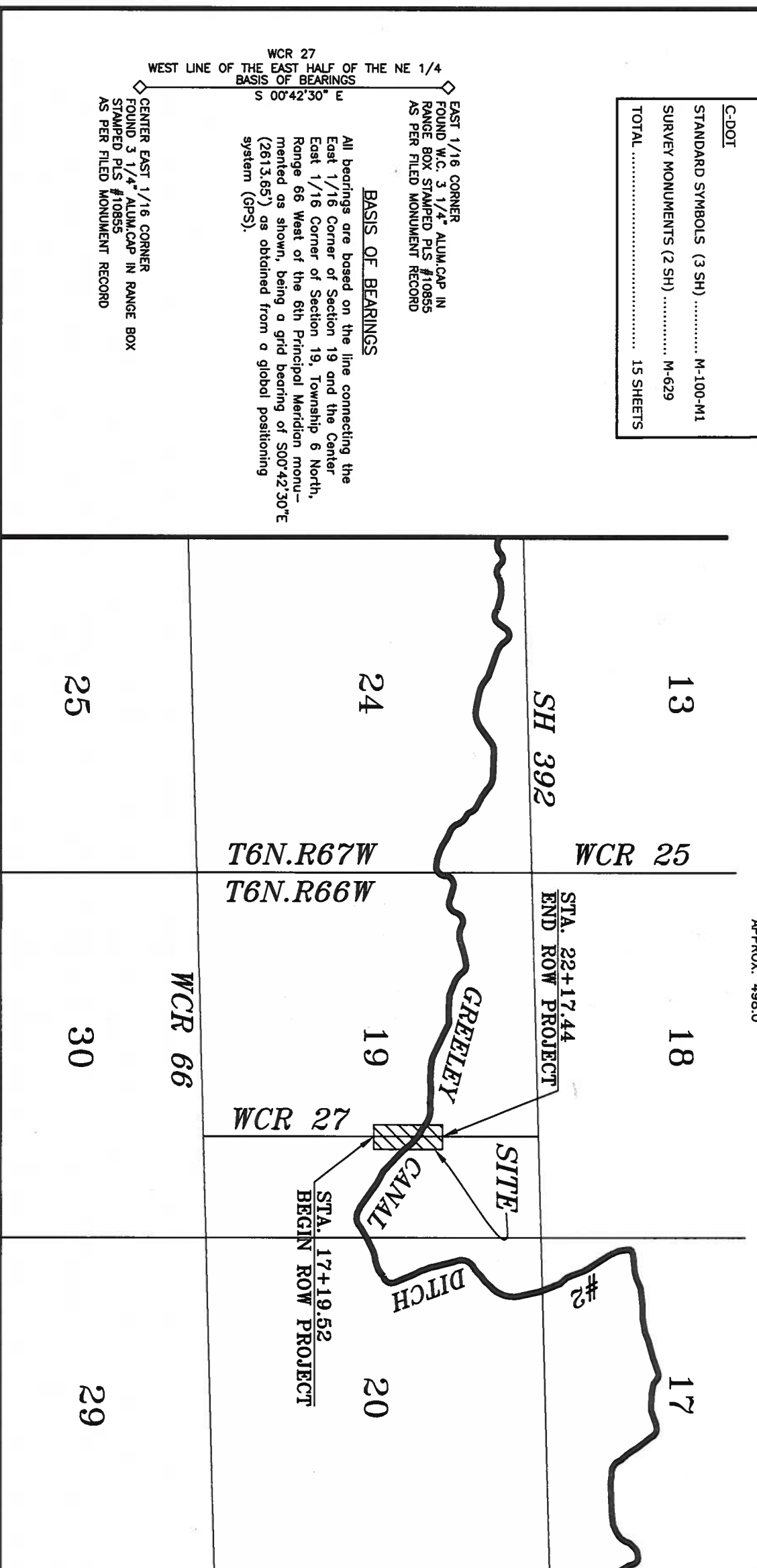
Right of Way Plans			
Title Sheet			
Project Number:		BR0 C030-030	
Project Location:		Weld County Bridge 27/66A over Greeley Canal #2 near Greeley, CO	
Project Code:	Last Mod. Date	Sheet No.	Total No. of Sheets
14655	7/1/2006	1 of 1	15

RIGHT OF WAY PLAN OF PROPOSED
FEDERAL AID PROJECT NO. BR0 C030-030

SCALES OF ORIGINAL DRAWINGS

PLAN SHEETS : 1"=50'
 OWNERSHIP MAP : 1"=50'
 R.O.W. LENGTH OF PROJECT
 APPROX. 498.0'

<u>SHEET INDEX</u>	
TITLE SHEET	1.01
TABULATION OF PROPERTY	2.01
SURVEY CONTROL TABLE	3.01
SURVEY CONTROL DIAGRAM	3.02
MONUMENTATION	4.01
PLAN SHEETS	5.01-5.03
OWNERSHIP MAP	6.01
PHOTO MAP	6.02
<u>C-DOT</u>	
STANDARD SYMBOLS (3 SH)	M-100-M1
SURVEY MONUMENTS (2 SH)	M-629
TOTAL	15 SHEETS



DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
AUTHORIZED: _____

DIVISION ADMINISTRATOR

COLORADO DEPARTMENT OF TRANSPORTATION		Sheet Revisions		T6N, R66W, 6th P.M.		Right of Way Plans	
 Region 4 Address: 1420 2nd Street Greely, Colorado 80631 Phone: (970) 350-2153 FAX: (970) 350-2223		 WELD COUNTY PUBLIC WORKS DEPARTMENT 1111 H STREET P.O. BOX 758 GREELEY, CO 80632-0758 PHONE: (970) 356-4000 FAX: (970) 304-6497				SURVEY CONTROL TABLE	
Right of Way Plans Units: Mark Guerrero						Project Number: BRO 0030-030	
						Project Location: Weld County Bridge 27/66A over	
						Project Location: Greeley Canal #2 near Greeley, CO	
						Project Code: 1 Unit Mod. Date 7/7/2008 1 of 2 3.01 15	

GPS COORDINATE SUMMARY TABLE (METRIC)
(ADJUSTED FIELD DATA)

TOWNSHIP SIX NORTH, RANGE SIXTY-SIX WEST

Number	GEODETIC COORDINATES NAD 83/92 (CONUS)		ELLIP. HEIGHT	MAPPING ANGLE		NAD 83/92 ZONE 0501	
	LATITUDE(N)	LONGITUDE(W)			SCALE	NORTHING	EASTING
201	40°28'10.13754"	104°48'58.23956"	1429.532	0°26'30.63"	0.999964115	431172.919	972391.523
2	40°28'24.55923"	104°48'57.84082"	1438.676	0°26'30.88"	0.999964384	431617.806	972397.484
203	40°28'34.12361"	104°48'58.97409"	1445.930	0°26'30.15"	0.999964565	431912.599	972368.517

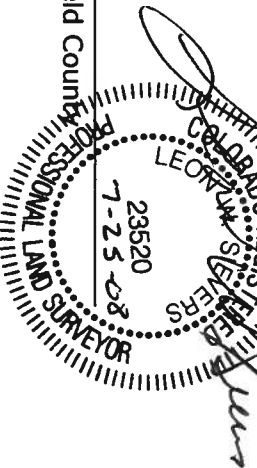
NOTE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the statement shown.

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 heron named.

SURVEYORS STATEMENT

I, Leon W. Sievers, A Colorado Registered Professional Land surveyor, do hereby state that this Right-Of-Way plan was prepared under my personal supervision, that the control monumentation as indicated hereon were found or set as shown, and that the forgoing plat is an accurate representation thereof, all this to the best of my knowledge, information, belief.

Leon W. Sievers- On behalf of Weld County
Colorado Registered Professional
Land Surveyor #23520



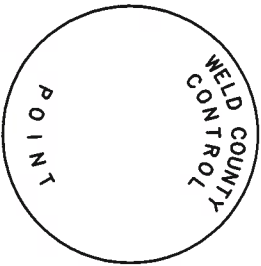
CONTROL IS BASED ON CDOT PROJECT #BR 3921-005

BASIS OF ELEVATION: Project is based on a NAVD 88 elevation of 4767.82 on bench mark Q136, a standrd bench mark disk stamped Q 136 1934, in the SE1/4 of Section 23, Township 6 North, Range 67 West , Sixth P.M.

Control point monuments set by Weld County.
24" of # 5 rebar with a 2" aluminum cap
stamped as shown

BASIS OF BEARING: Bearings used in the calculation of coordinates are based on a grid bearing of N.88°13'37"E from HARN point "Windsor2" (flange encased stainless steel rod) located in the SE1/4 of Section 17, Township 6 North, Range 67 West, Sixth P.M. and the densification point "Jones"(standard NGS disk set into the top of concrete monument) SW1/4 Section 16, Township 6 North, Range 66 West, Sixth P.M., as obtained from a Global Positioning System(GPS) survey based on the Colorado High Accuracy Network (CHARN).

COORDINATE DATUM: Project coordinates are modified Colorado State Plane North Zone NAD 83(92) coordinates. The combined elevation/scale factor used to modify the coordinates is 0.9997368210. Project coordinates are truncated by 400,000 in the Northing and 900,000 in the Easting. The CHARN is based on NAD 83(92) datum.



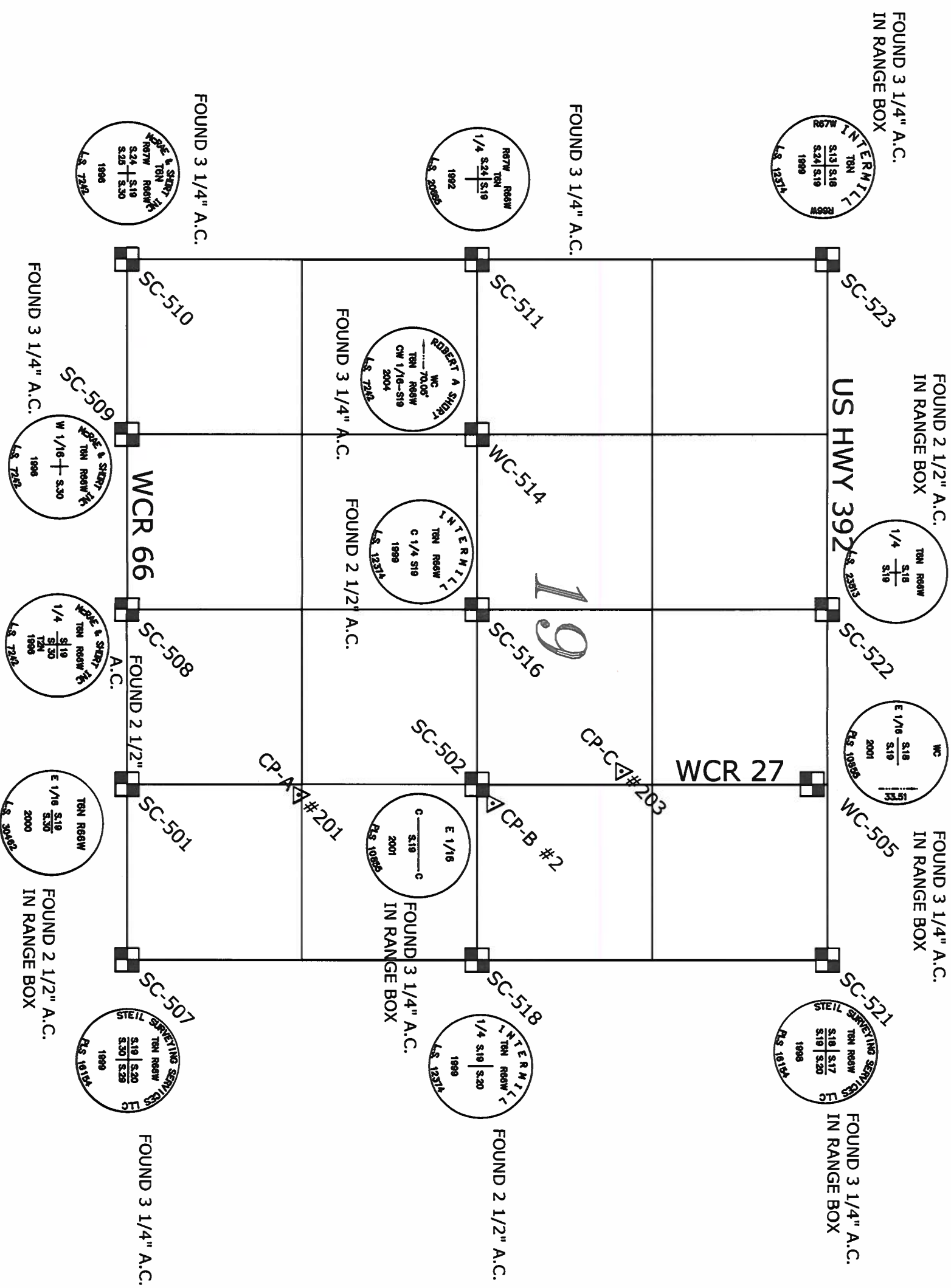
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WELLD COUNTY
PUBLIC WORKS DEPARTMENT
1111 H STREET
P.O. BOX 758
GREELEY, CO 80632-0758
PHONE: (970) 356-4000
FAX: (970) 304-6497

T6N, R66W, 6th P.M.

Right of Way Plans				
Land Survey Control Diagram Sheet				
Project Number:	BRD 0030-030			
Project Location:	Weld County Bridge 27/68A over			
Project Location:	Greasley Canal #2 near Greasley, CO			
Project Code:	Left/Wld. Dots	2 of 2	Sheet Sheets	Sheet No./Total No. of Sheets
14465	7/1/2008	2	3.02	15

WELD COUNTY ROAD 27 - LAND SURVEY CONTROL DIAGRAM



[illegible]

PUBLIC WORKS DEPARTMENT
1111 H STREET
P.O. BOX 758
GREELEY, CO 80632-0758
PHONE: (970) 356-4000
FAX: (970) 304-6497

Right of Way Plans			
Monumentation Sheet			
Project Number:	BR0 C030-030		
Project Location:	Weld County Bridge 27/66A over Greeley Canal #2 near Greeley, CO		
Project Code:	Last Mod. Date	Sheet No.	Total No. of Sheets
14455	7/1/2008	1 of 1	15

TABULATION OF FOUND ALIQUOT CORNERS

PROJECT COORDINATES US FT.		LOCATION	DESCRIPTION
POINT	NORTHING		
501	101376.34	238328.41	E 1/16 CORNER SECTIONS 19 & 30, T6N, R66W, 6th PM
502	103986.77	238309.83	CE 1/16 CORNER SECTIONS 19, T6N, R66W, 6th PM
505	106600.22	238277.52	W.C. E 1/16 CORNER SECTIONS 19 & 18, T6N, R66W, 6th PM
507	101422.78	238647.25	S.E. CORNER SECTION 19, T6N, R66W, 6th PM
508	101330.22	237009.74	S 1/4 CORNER SECTION 19, T6N, R66W, 6th PM
509	101234.53	235442.80	W 1/16 CORNER SECTIONS 19 & 30, T6N, R66W, 6th PM
510	101135.14	233808.16	S.W. CORNER SECTION 19, T6N, R66W, 6th PM
511	103716.51	233796.90	W 1/4 CORNER SECTION 19, T6N, R66W, 6th PM
514	103814.06	235421.23	W.C. CW 1/16 CORNER SECTION 19, T6N, R66W, 6th PM
516	103900.65	236864.52	C 1/4 CORNER SECTION 19, T6N, R66W, 6th PM
518	104066.55	238636.92	E 1/4 CORNER SECTION 19, T6N, R66W, 6th PM
521	106710.38	238626.25	N.E. CORNER SECTION 19, T6N, R66W, 6th PM
522	106545.08	236714.69	N 1/4 CORNER SECTION 19, T6N, R66W, 6th PM
523	106380.18	233801.04	N.W. CORNER SECTION 19, T6N, R66W, 6th PM

PROJECT COORDINATES US FL.		DESCRIPTION	
POINT	NORTHING		EASTING
1644	104353.08	238275.36	FOUND #4 REBAR W/RED PLASTIC CAP STAMPED "LS 30462"
1642	104381.50	238246.45	FOUND #4 REBAR W/RED PLASTIC CAP STAMPED "LS 30462"

TABULATION OF R.O.W. MARKERS			
TO BE SET			
POINT	NORTHING	EASTING	STATION
400	103984.98	238279.85	LT. 17+69.51
401	103983.79	238259.86	LT. 17+68.72
402	104373.32	238255.05	LT. 21+57.10
404	104103.32	238338.39	RT. 18+86.68
405	104103.57	238358.39	RT. 18+86.54
406	104168.77	238357.58	RT. 19+52.11
407	104185.96	238337.37	RT. 19+69.54
408	104238.39	238336.72	RT. 20+21.98
409	104221.20	238356.94	RT. 20+04.54
410	104338.63	238355.48	RT. 21+22.70
411	104338.38	238335.49	RT. 21+22.46

TABULATION OF TEMPORARY EASEMENT POINTS TO BE STAKED			
POINT	NORTHING	EASTING	STATION
600	103934.98	238280.21	LT. 17+19.52
601	103955.19	238166.53	LT. 17+39.95
602	103978.14	238165.05	LT. 17+54.93
603	103980.80	238209.93	LT. 17+66.71
604	103992.60	238239.75	LT. 17+77.92
605	104122.59	238238.15	LT. 19+07.41
606	104183.35	238205.45	LT. 19+68.57
607	104206.12	238237.11	LT. 19+90.94
608	104396.10	238234.76	LT. 21+79.81
609	104003.33	238339.63	RT. 17+86.68
610	104004.10	238401.62	RT. 17+86.23
611	104132.68	238400.03	RT. 19+15.49
612	104165.58	238398.84	RT. 19+68.40
613	104225.58	238398.34	RT. 20+08.40
614	104266.20	238356.35	RT. 20+51.54
615	104433.38	238334.31	RT. 22+17.44
616	104433.62	238354.31	RT. 22+17.76
617	104381.76	238246.48	LT. 21+65.51

I, Leon Sievers, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan was prepared under my responsible charge in accordance with my applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty of warranty, either expressed or implied.

Date 7-28-05

I, Leon Sievers, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, adequate research, calculations and evaluation of the survey evidence were performed and the Right-of-Way monuments depicted on this Right-of-Way Plan were set under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty of warranty, either expressed or implied.

Date _____

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 meets the minimum horizontal control tolerances of a CDOT Type B survey (4-29-1992).

8. Commitments for title insurance supplied by:
Stewart Title Guaranty Co. on: May 6, 2008-8:00am

Commitment No.'s - 20071732-C-3

20071727-C-2

20071725-C-4

20072179-C-2

20071728-C-3

July 16, 2008
8:00am

 DOT
COLORADO DEPARTMENT OF TRANSPORTATION

Region 4
Address: 1420 2nd Street
Greeley, Colorado 80631
Phone: (970) 350-2153 FAX: (970) 350-2178

Right of Way Plans Units: Dave Mantych, PLS

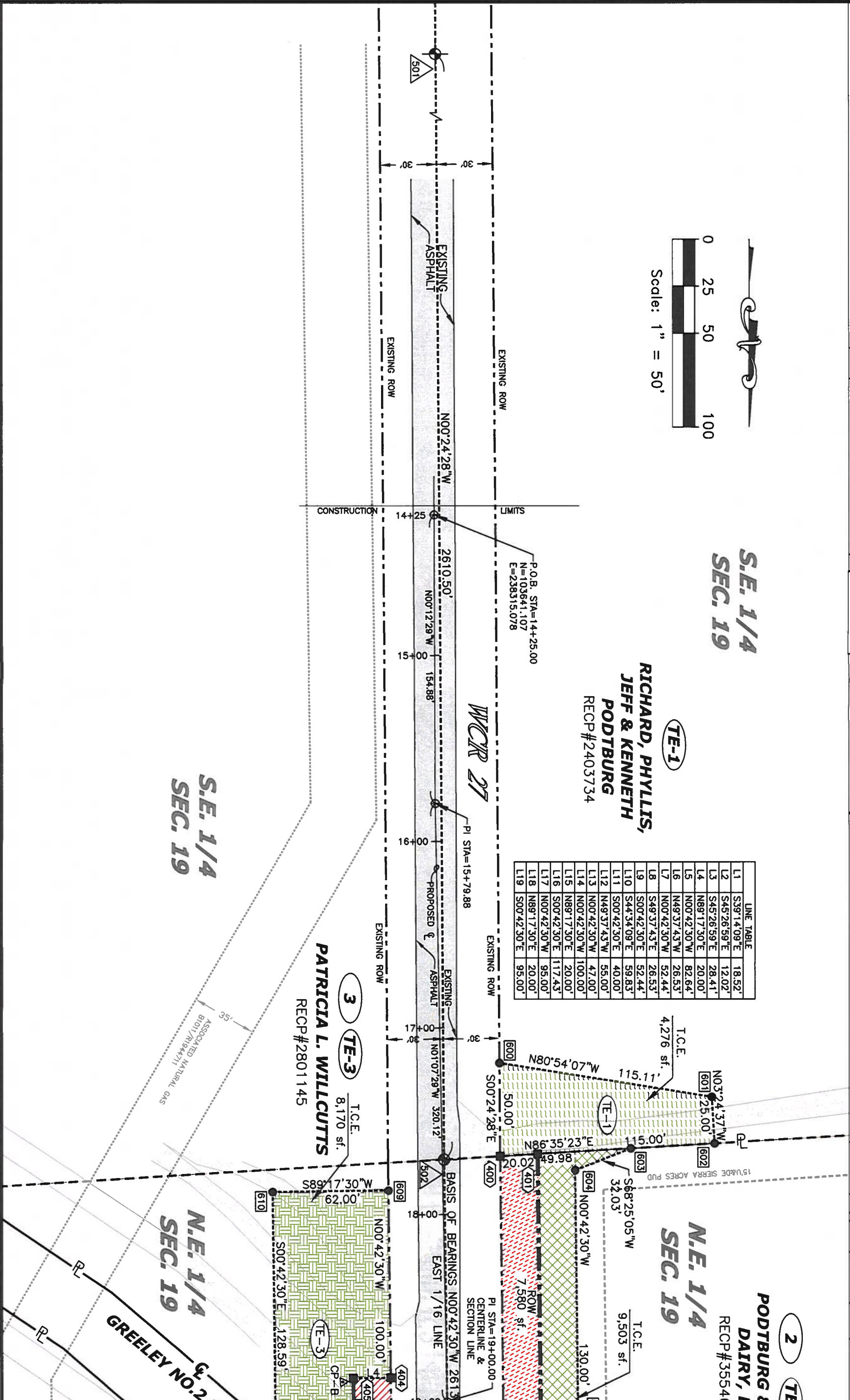
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PUBLIC WORKS DEPARTMENT
1111 H STREET
P.O. BOX 758
GREELEY, CO 80632-0758
PHONE: (970) 356-4000
FAX: (970) 304-6497

T6N, R66W, 6th P.M.

Right of Way Plans

Plan Sheet			
Project Number:	BRO C030-030		
Project Location:	Wild County Bridge 27/66A over		
Project Location:	Greely Canal #2 near Greeley, CO		
Project Code	Last Mod. Date	Sheet Number	Sheet No. of Sheet
14655	7/1/2008	1 of 3	5.01 15



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WELD COUNTY
PUBLIC WORKS DEPARTMENT
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P.O. BOX 758
GREELEY, CO 80632-0758
PHONE: (970) 356-4000
FAX: (970) 304-6697

T6N, R66W, 6th P.M.

Right of Way Plans			
Plan Sheet			
Project Number:	BRD C030--030		
Project Location:	Weld County Bridge 27/66A over		
Project Location:	Greely Canal #12 near Greely, CO		
Project Code:	Left Mod. Date	Subst. Sheets	Sheet No. Total No. of Sheets
14655	7/1/2008	2 of 3	5,02 15

2 TE-2

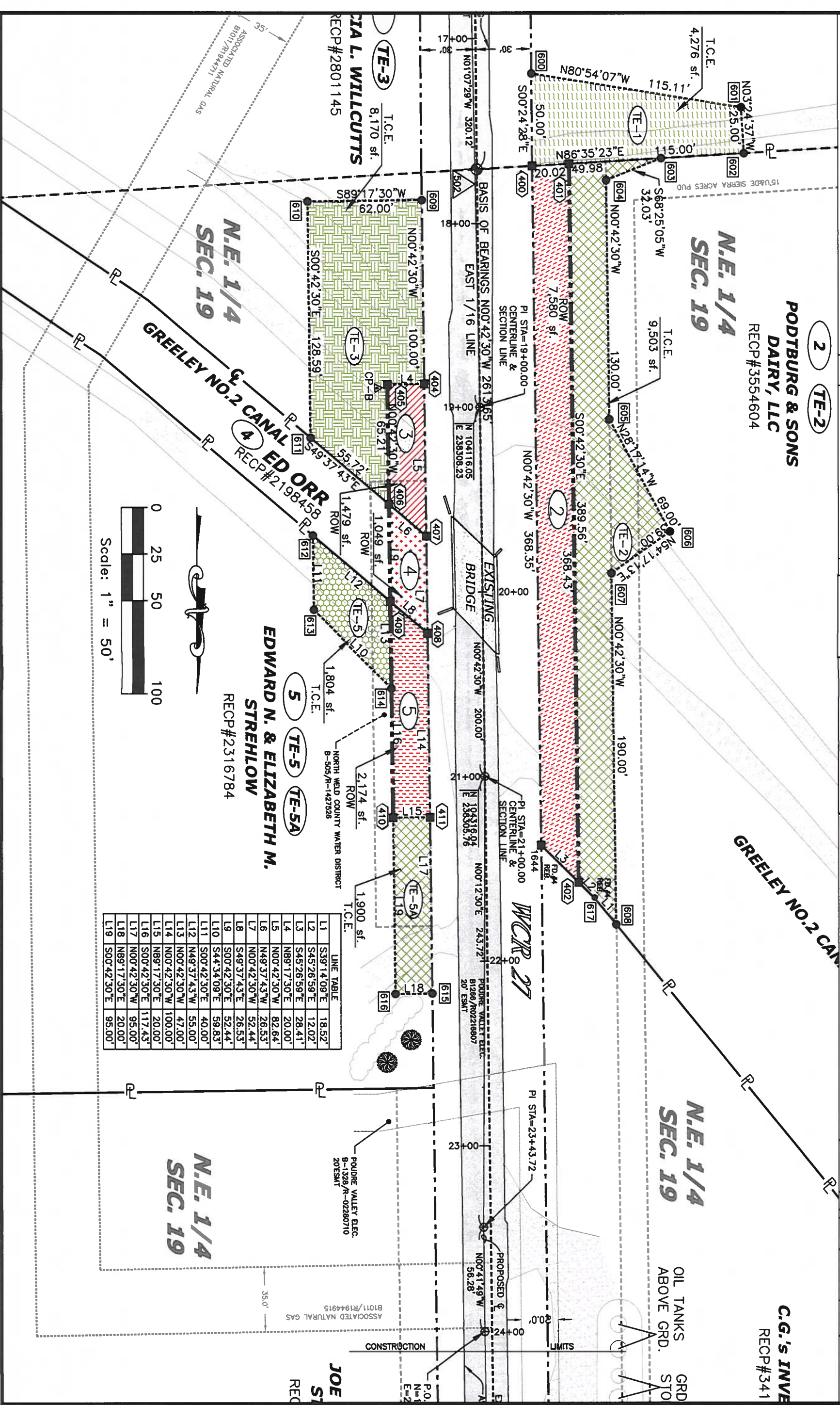
PODTBURG & SONS
DAIRY, LLC
RECP#3554604

C.G.'S INVE
RECP#341

N.E. 1/4
SEC. 19

**N.E. 1/4
SEC. 19**

OIL TANKS GRD
ABOVE GRD. STO



LINE TABLE		
L1	S39:14.09"E	18.52'
L2	S45:26.58"E	12.02'
L3	S45:26.58"E	28.41'
L4	N89:17:30"E	20.00'
L5	N00:42:30"W	82.64'
L6	N49:37:43"W	22.44'
L7	N00:42:30"W	52.44'
L8	S49:37:43"E	26.53'
L9	S00:42:30"E	52.44'
L10	S44:34:08"E	59.83'
L11	S00:42:30"E	40.00'
L12	N49:37:43"W	55.00'
L13	N00:42:30"W	47.00'
L14	N00:42:30"W	100.00'
L15	N89:17:30"E	20.00'
L16	S00:42:30"E	117.43'
L17	N00:42:30"W	95.00'
L18	N89:17:30"E	20.00'
L19	S00:42:30"E	95.00'

Sheet Revisions	
mm/11	1000



WELD COUNTY
PUBLIC WORKS DEPARTMENT
1111 H STREET
P.O. BOX 758
GREELEY, CO 80632-0758
PHONE: (970) 356-4000
FAX: (970) 304-6497

T6N, R66W, 6th P.M.

Right of Way Plans	
Plan Sheet	
Project Number:	BRO C030-030
Project Location:	Weld County Bridge 27/66A over
Project Location:	Greeley Canal #2 near Greeley, CO
Project Code:	Last Mod. Date Subject Sheets Sheet No. Total No. of Sheets
14555	7/1/2008 3 of 3 503 15

C.G.'s INVESTMENT
RECP#3418542

N.E. 1/4
SEC. 19

N.E. 1/4
SEC. 19

OIL TANKS
ABOVE GRD.

GRD. LEVEL
STORAGE

POUDRE VALLEY ELEC.
10ESMT RECP-#3409737

WCRP 27

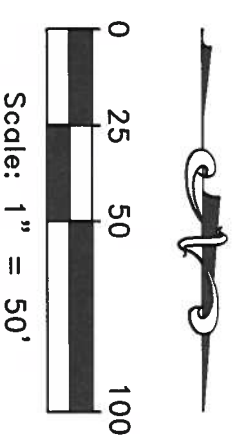
N00°42'30"W 2613.65'

505

JOE B. & LORI J.
STRICKLIN
RECP#3314152

N.E. 1/4
SEC. 19

LINE TABLE		
L1	S39°14'09"E	18.52'
L2	S45°26'59"E	12.02'
L3	S45°26'59"E	28.41'
L4	N89°17'30"E	20.00'
L5	N00°42'30"W	82.64'
L6	N49°37'43"W	26.53'
L7	N00°42'30"W	52.44'
L8	S49°37'43"E	26.53'
L9	S00°42'30"E	52.44'
L10	S44°34'09"E	59.83'
L11	S00°42'30"E	40.00'
L12	N49°37'43"W	55.00'
L13	N00°42'30"W	47.00'
L14	N00°42'30"W	100.00'
L15	N89°17'30"E	20.00'
L16	S00°42'30"E	117.43'
L17	N00°42'30"W	95.00'
L18	N89°17'30"E	20.00'
L19	S00°42'30"E	95.00'



Sheet Revisions

[illegible]

**PUBLIC WORKS DEPARTMENT
1111 H STREET**

T6N, R66W, 6th P.M.



-N7-

OWNERSHIP MAP

Project Number:	BRD C030-030			
Project location:	Weld County Bridge 27/66A over			
Project location:	Greely Canal #2 near Greeley, CO			
Project Code:	Last Mod. Date	Subject Sheets	Sheet No.	Total No. of Sheets
14635	7/1/2008	1 of 2	6.01	15

TE-1

**PODTBURG & SONS
DAIRY, LLC
Commitment #20071728-C-5**

2 TE-2

C.G.'S INVESTMENT

WCR 27

PATRICIA L. WILLCUTTS
Commitment #20071725-C-4

**EDWARD N. & ELIZABETH
STREHLOW
Commitment #20071732-C-3**

**JOE B. & LORI J.
STRICKLIN**

COLORADO DEPARTMENT OF TRANSPORTATION
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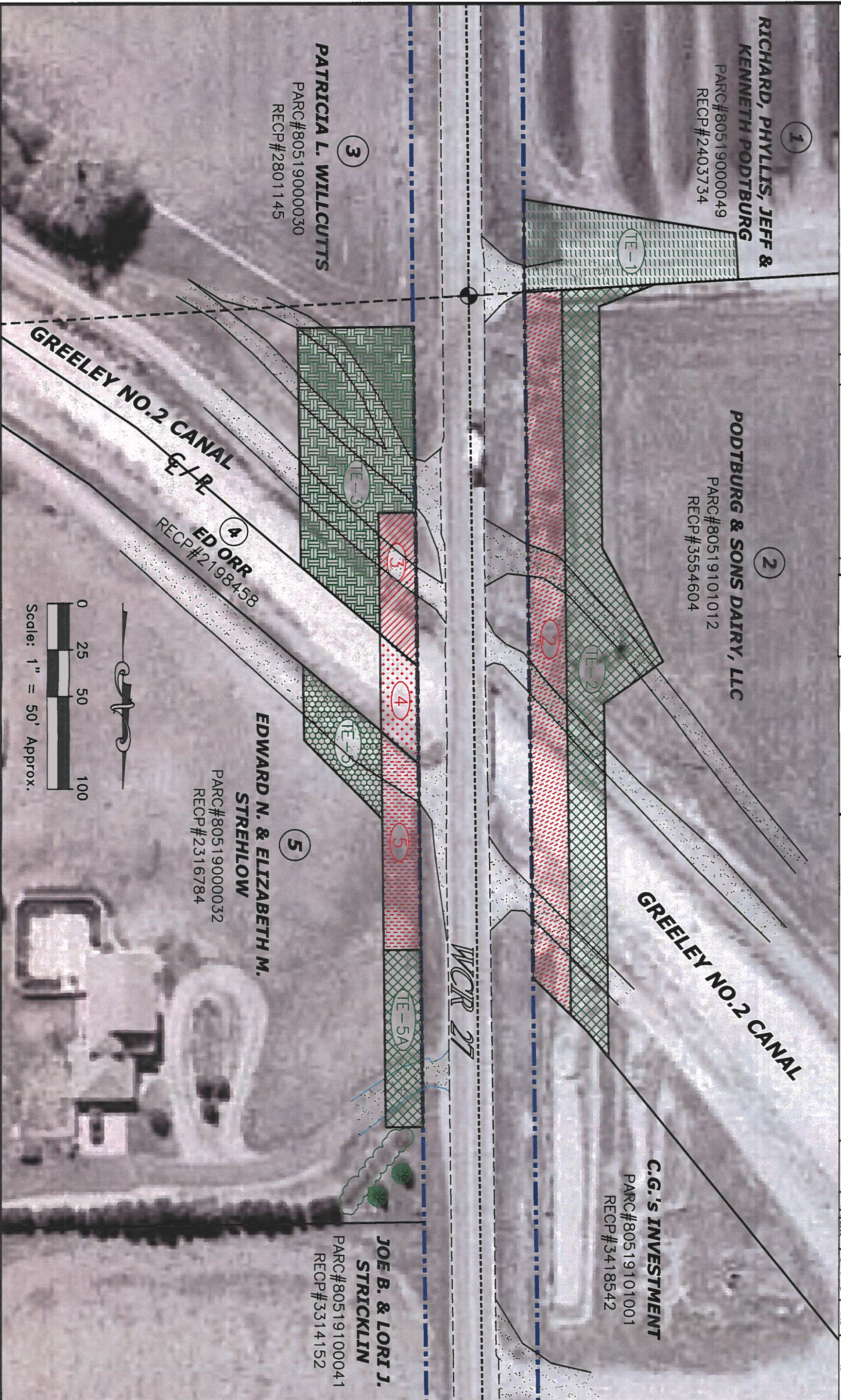
Sheet Revisions	
mm/yr	2000

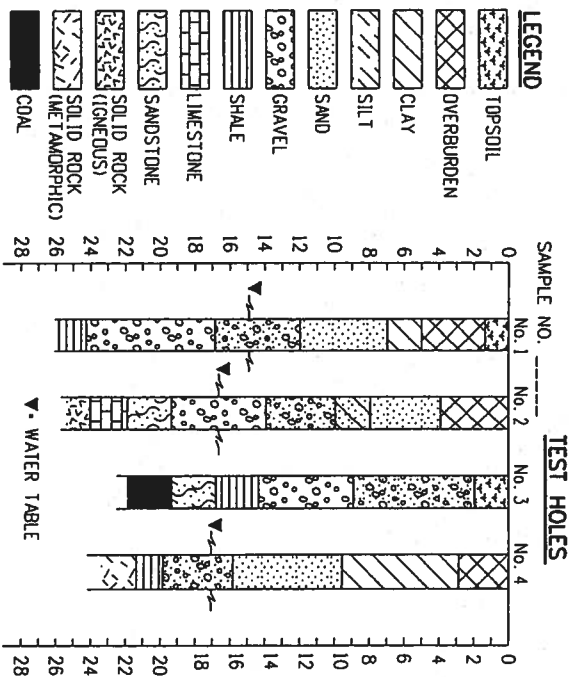


WELD COUNTY
PUBLIC WORKS DEPARTMENT
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GREELEY, CO 80632-0738
PHONE: (970) 356-4000
FAX: (970) 304-6497

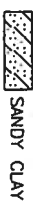
T6N, R66W, 6th P.M.

Right of Way Plans	
OWNERSHIP MAP	
Project Number:	BRO C030-030
Project Location:	Weld County Bridge 27/66A over Greeley Canal #2 near Greeley, CO
Project Code:	Last Mod. Date Sheet No. Total No. of Sheets
14055	7/1/2008 2 of 2 6.02 15

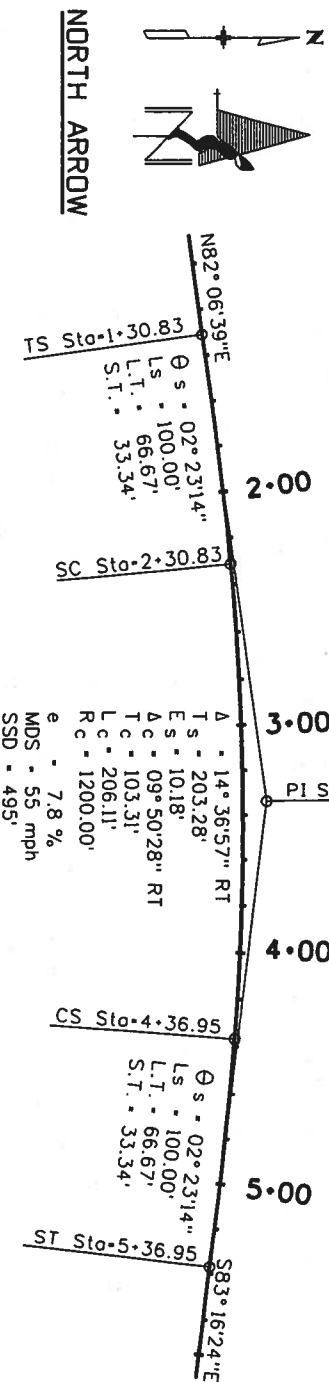




COMPOSITE MATERIALS ARE REPRESENTED BY COMBINATIONS OF THE ABOVE SYMBOLS, SUCH AS:

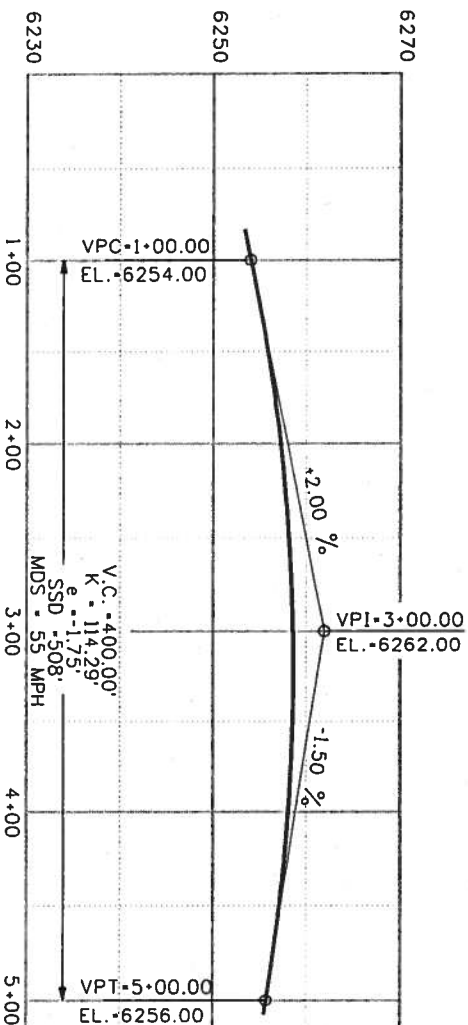


TYPICAL BORING LOG



TYPICAL HORIZONTAL CURVE

MDS = 55 mph
SSD = 495'



TYPICAL VERTICAL CURVE

Computer File Information

Creation Date: 07/04/06 Initials: SRJ
Last Modification Date: 07/04/06 Initials: LTA
Full Path: www.dot.state.co.us/DesignSupport/1/
Drawing File Name: 100010103.dgn
CAD Ver: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions

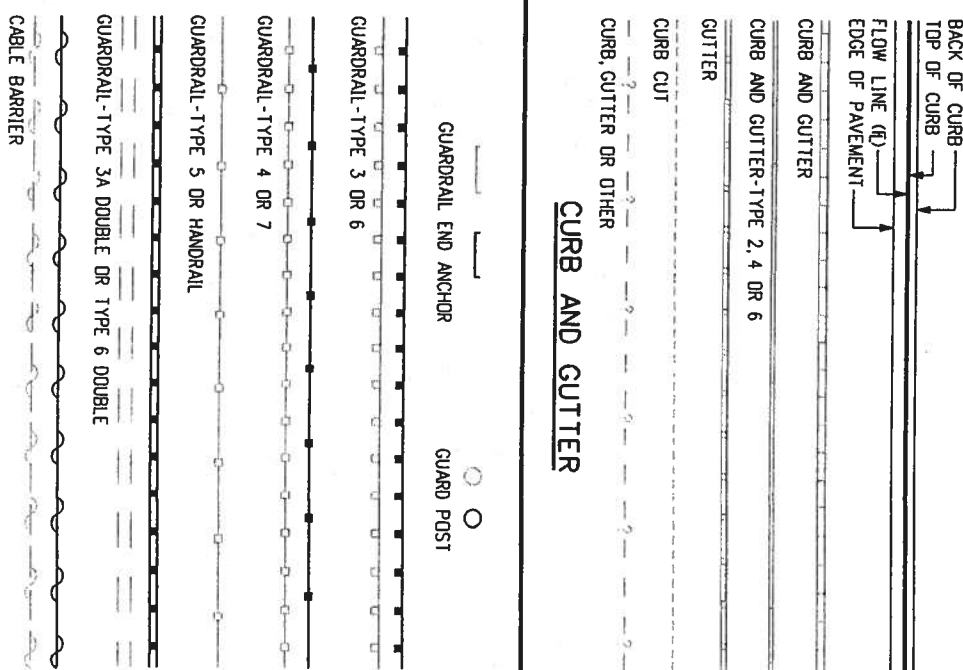
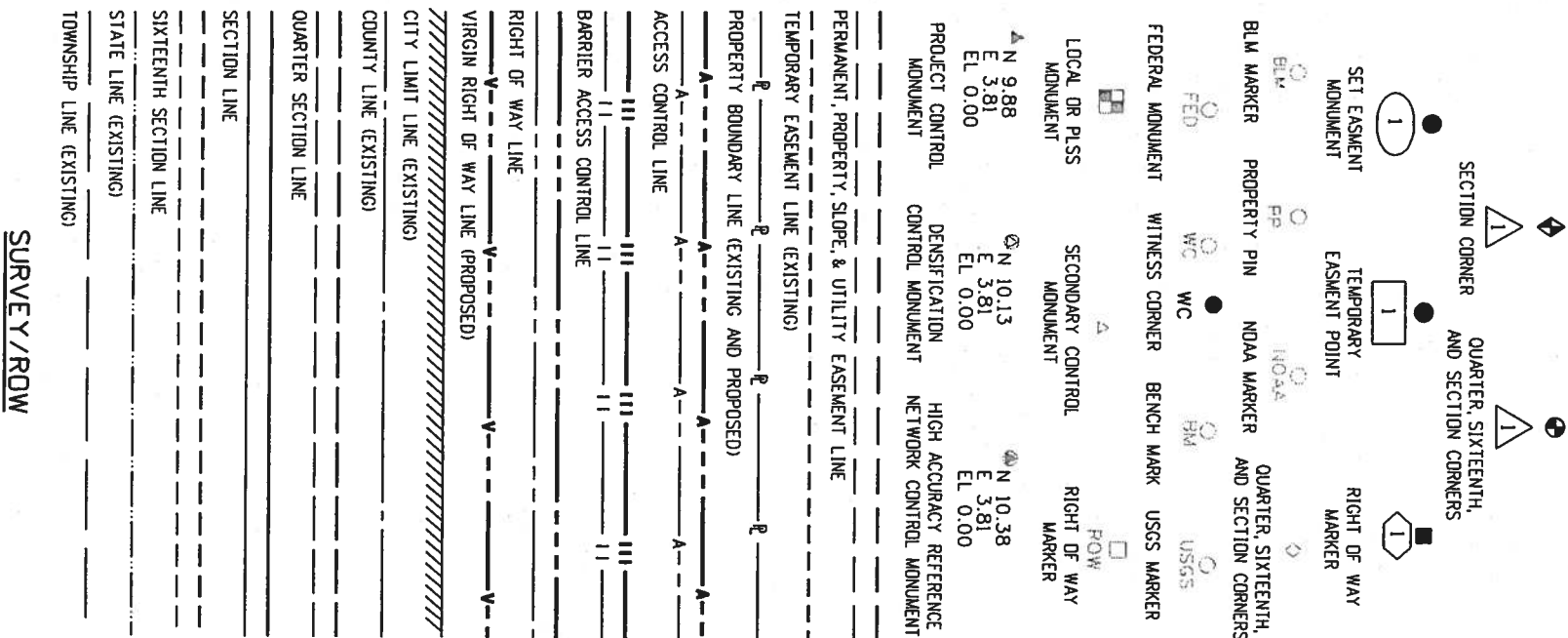
Date:	Comments:
(R-X)	
(R-X)	
(R-X)	
(R-X)	

Colorado Department of Transportation

4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820

Project Development Branch

SRJ/LTA



ROCK, MASONRY OR MECHANICALLY STABILIZED WALL (FACE) BRIDGE CURB BRIDGE RAIL BRIDGE RAIL -TYPE 3A FLOW LINE CBC STRUCTURES MISCELLANEOUS STRUCTURE		COMBINATION WIRE FENCE WITH GATE CHAIN LINK FENCE WITH GATE BARBED WIRE FENCE WITH GATE SOUND OR BARRIER FENCE WITH GATE DEER FENCE WITH GATE WITH GATE WOOD FENCE WITH GATE SNOW FENCE WITH GATE SF	
---	--	--	--

PROPANE TANK

GAS JUNCTION BOX

GAS VAULT

GAS LINE MARKER
OR AIR VENT

GAS METER
LOW PRESSURE

GAS METER
HIGH PRESSURE

GAS LIGHT

GAS VALVE

GAS MISCELLANEOUS

GAS LINE LOW PRESSURE

GAS LINE HIGH PRESSURE

PROPANE GAS LINE

GAS LINES MISCELLANEOUS

GAS

OIL METER

OIL VALVE

OIL MISCELLANEOUS

HIGH AND LOW PRESSURE

OIL LINE LOW OR HIGH PRESSURE

OIL MISCELLANEOUS LINE

OIL

GRAVE HEADSTONE SYMBOL

MAIL DROP BOX

FLAG POLE

TRASH BARREL POST

GRAVE SYMBOL

RADIO STATION ANTENNA

MISCELLANEOUS TOPOGRAPHY

MISCELLANEOUS TOPOGRAPHY

CAMPSITE MARKER

TRAILER ELECTRIC HOOKUP

TRAILER DUMP STATION

CAMPFIRE RING

TRAILER SEWER INLET

TRAILER WATER HOOKUP

CAMPSITE GRILL

CAMPSITE TABLE

CAMPING

LIGHT STANDARD

HIGH MAST
LIGHT STANDARD

SPOT OR FLOOD LIGHT

LIGHTING

ELECTRICAL PEDESTAL
OR PULL BOX

TRANSMISSION TOWER OR
WIND POWERED GENERATOR

RELOCATED
LIGHT STANDARD

DECORATIVE
LIGHT STANDARD

CATENARY POLE
FOUNDATION

ELECTRICAL MANHOLE

POWER POLE

TRANSFORMER ON POLE

ELECTRICAL OUTLET

ELECTRICAL MISCELLANEOUS

GUY WIRE

ELECTRICAL VAULT OR
GUY POST

FIRE ALARM BOX

ELECTRICAL VAULT OR
GUY POST

FIRE ALARM BOX

ELECTRICAL UNDERGROUND LINE

ELECTRICAL OVERHEAD LINE

ELECTRICAL MISCELLANEOUS LINE

ELECTRICAL

CABLE TV POLE

CABLE TV RISER

COMBINATION POLE-POWER, TELEPHONE

TV ANTENNA

TV MISCELLANEOUS

TV MANHOLE

TV UNDERGROUND CABLE

TV OVERHEAD CABLE

TV MISCELLANEOUS CABLE

TELEVISION

TELEPHONE GUY POLE

FIBER OPTIC
CABLE MARKER

TELEPHONE MANHOLE

COMBINATION POLE-POWER

TELEPHONE MISCELLANEOUS

COMBINATION GUY POLE-POWER

TELEPHONE UNDERGROUND CONDUIT OR CABLE

FIBER OPTICS UNDERGROUND CABLE

TELEPHONE OVERHEAD LINE

TELEPHONE MISCELLANEOUS LINE

TELEPHONE

FIBER MARKER
DOME

FIBER MARKER
SLATE

RWIS - REMOTE
WEATHER SENSOR

VMS-BUTTERFLY VMS-GROUND VMS-CANTILEVER VMS-SIGN BRIDGE

ITS CONDUIT

INTELLIGENT TRANSPORTATION SYSTEM

CENTER YELLOW SOLID DOUBLE

CENTER YELLOW SOLID BROKEN (NO PASS)

4 INCH WIDE 8 INCH WIDE
LANE LINE BROKEN

LANE DROP

CHANNELIZING OR EDGE LINE

4 INCH WIDE 8 INCH WIDE
DOTTED BROKEN

STOP LINE

TRAFFIC STRIPING

TRAVEL DIRECTION

BARRIER LIGHT

FLAGGER

SEQUENCING
ARROW PANEL

FLASHING BEACON

DELINEATOR-TYPE I

DELINEATOR-TYPE II

DELINEATOR-TYPE III

BUTTERFLY SIGN

HALF BUTTERFLY SIGN

IMPACT ATTENUATOR

SIGN ASSEMBLY

SINGLE POST SIGN

DOUBLE POST SIGN

SIGN-WITH ROAD CLOSURE GATE
BEACON SYMBOL

ROAD CLOSURE
GATE SYMBOL

DEER
REFLECTORS

TRAFFIC CONTROL MISCELLANEOUS DEVICE

TRAFFIC CONTROL DEVICE

TRAFFIC CONTROL

DOUBLE MAST ARM POLE

LUMINAIRE

SIGNAL FACE

SIGNAL SPAN WIRE POLE

SIGNAL POLE
WITH MAST ARM

SIGNAL FACE
WITH BACKPLATE
AND CABINET (4 FT)

TELEMETRY ANTENNA

PULL BOX

MICRODETECTOR

VIDEO DETECTION
CAMERA

FIRE PREEMPTION
UNIT AND TIMER

PEDESTRIAN
SIGNAL FACE

PEDESTRIAN PUSH
BUTTON

PEDESTAL POLE

PULL BOX SPECIAL

TRAFFIC CONDUIT

TRAFFIC SIGNAL

Computer File Information

Creation Date: 07/04/06

Initials: SRJ

Last Modification Date: 07/04/06

Initials: LTA

Full Path: www.dot.state.co.us/DesignSupport/

Drawing File Name: 100010303.dgn

CAD Ver.: MicroStation V8

Scale: Not to Scale

Units: English

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Date:

Comments

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Project Development Branch

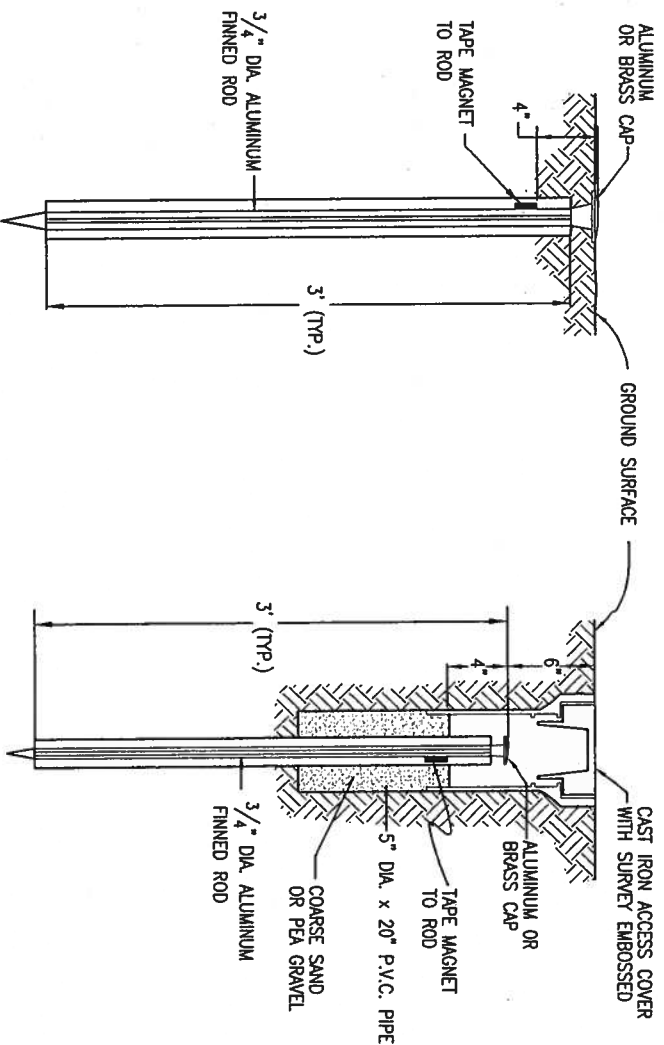
SRJ/LTA

STANDARD SYMBOLS

STANDARD PLAN NO.

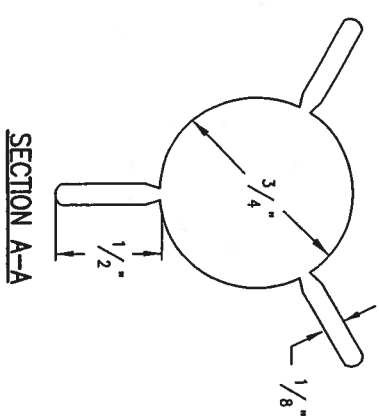
M-100-1

Sheet No. 3 of 3

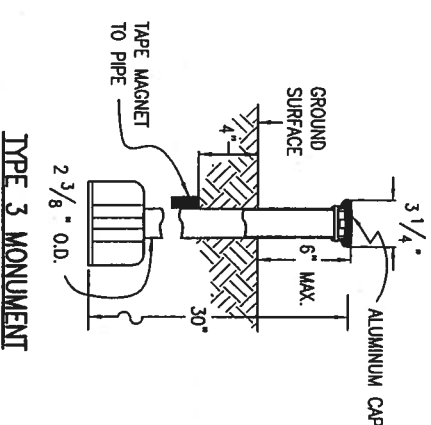


TYPE 1 MONUMENT

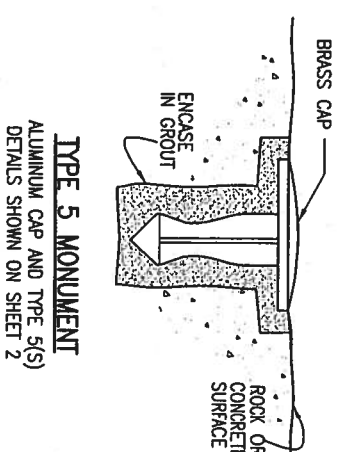
TYPE 1A MONUMENT
INCLUDES MONUMENT BOX



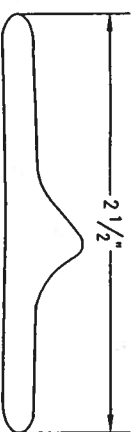
SECTION A-A



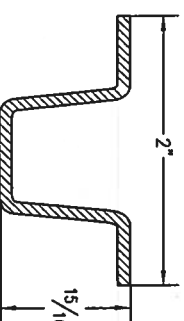
TYPE 3 MONUMENT



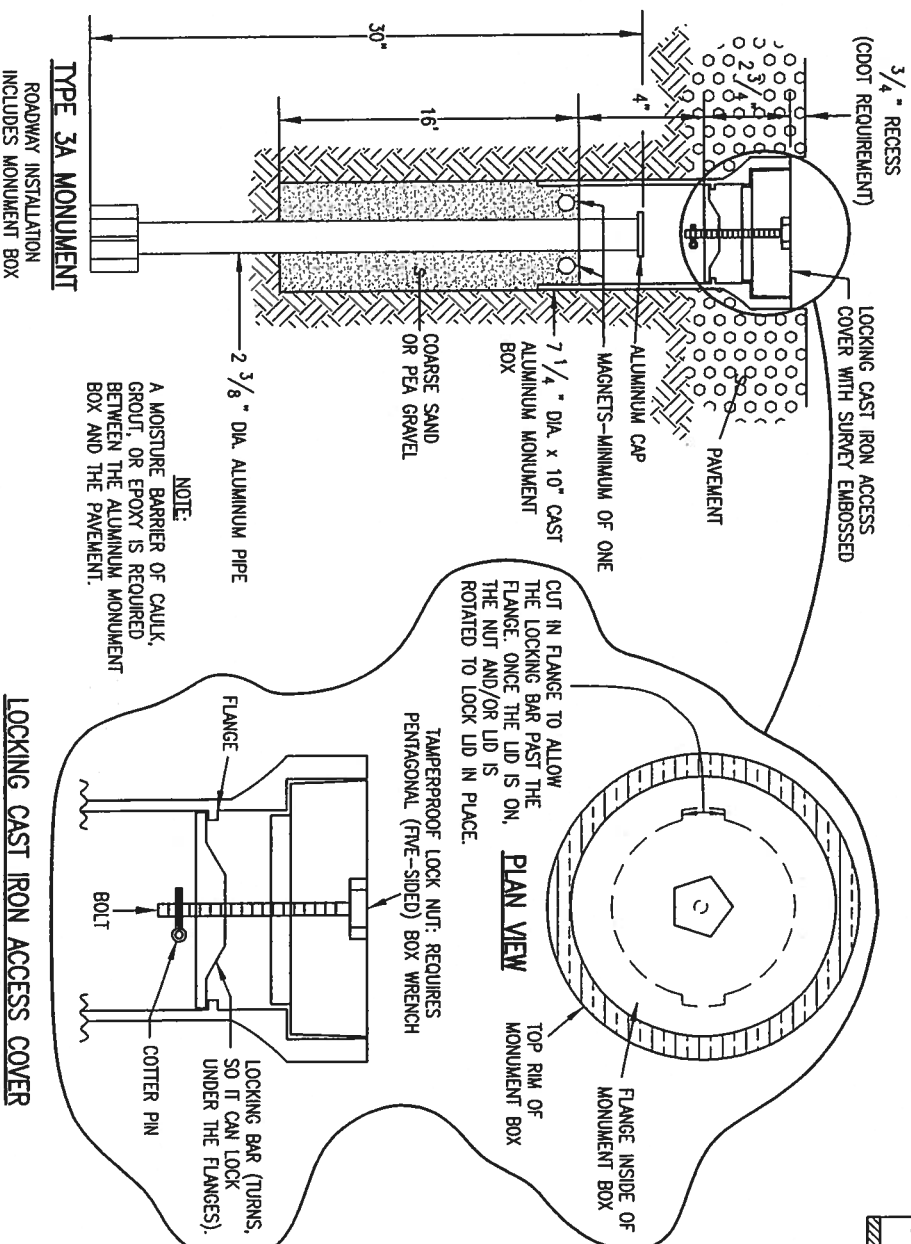
TYPE 5 MONUMENT
ALUMINUM CAP AND TYPE 5(S)
DETAILS SHOWN ON SHEET 2



SECTION B-B

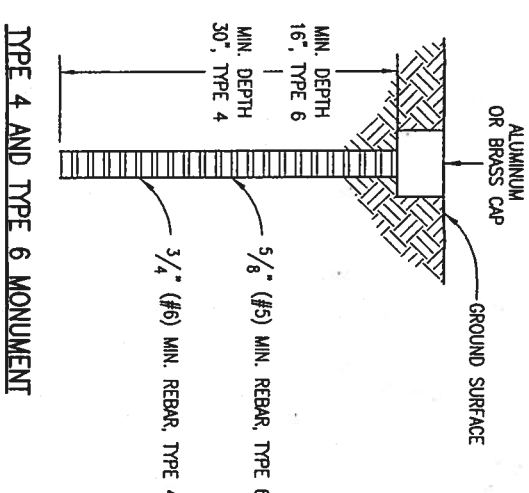


DELINEATOR POST
SECTION C-C

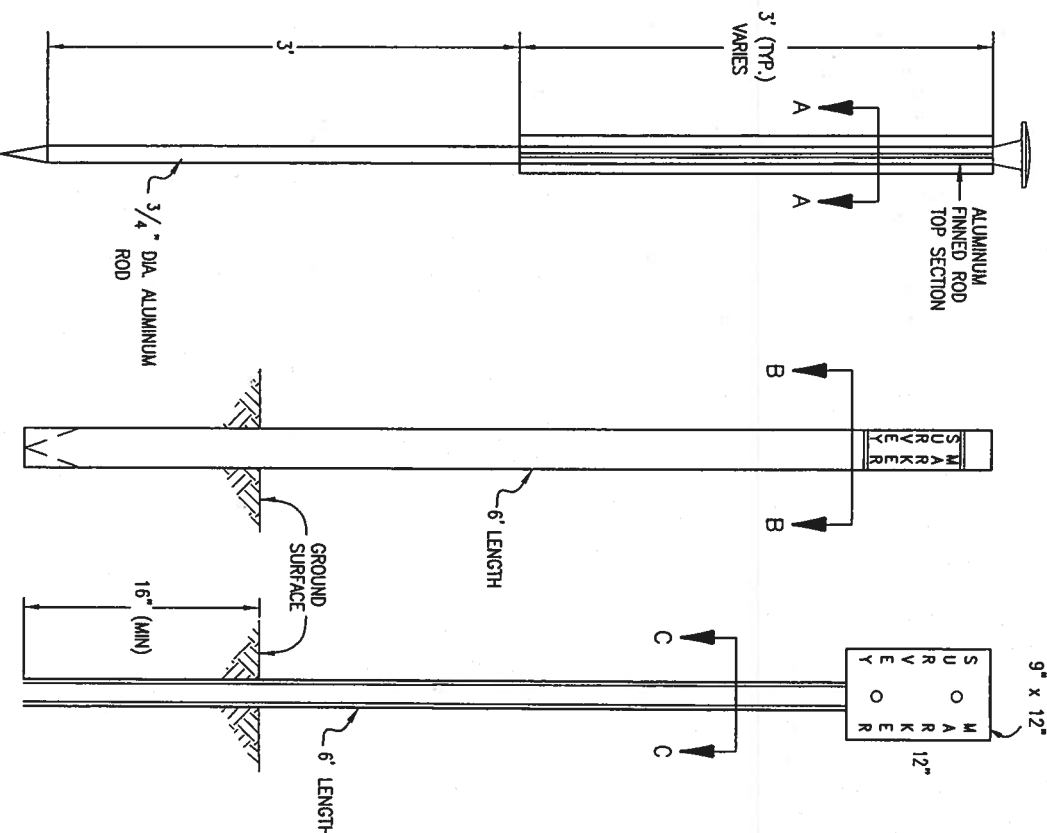


TYPE 3A MONUMENT
ROADWAY INSTALLATION
INCLUDES MONUMENT BOX

LOCKING CAST IRON ACCESS COVER



TYPE 4 AND TYPE 6 MONUMENT



TYPE 2 MONUMENT
TYPE 2A INCLUDES MONUMENT BOX

WITNESS POSTS

Computer File Information

Creation Date: 07/04/06 Initials: SUR
Lost Modification Date: 07/04/06 Initials: LTA
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Drawing File Name: 629010102.dwg
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Sheet Revisions

Date: Comments:
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(R-X)

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Project Development Branch

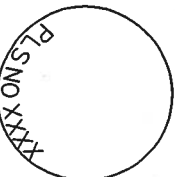
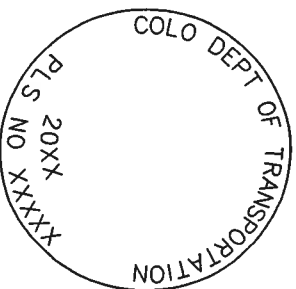
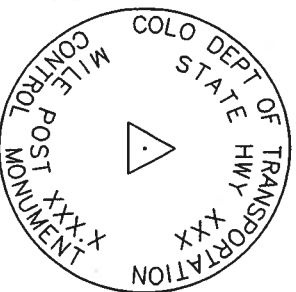
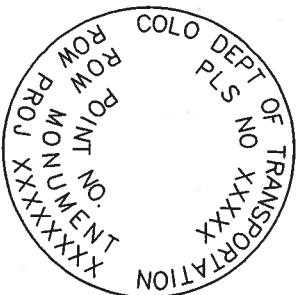
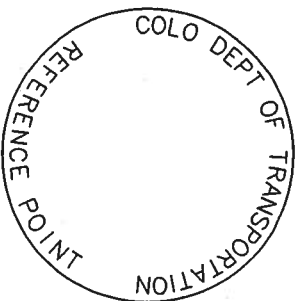
SRJ/LTA

SURVEY MONUMENTS

STANDARD PLAN NO.

M-629-1

Sheet No. 1 of 2



REFERENCE
MONUMENT CAP

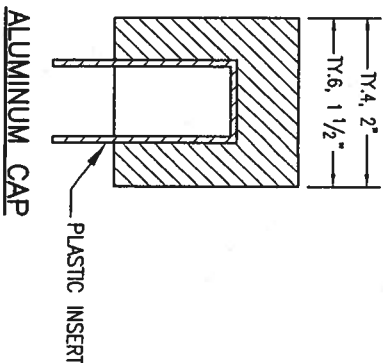
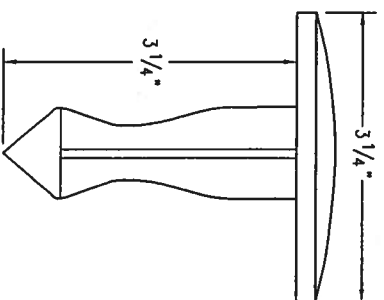
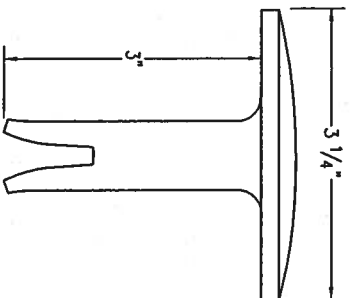
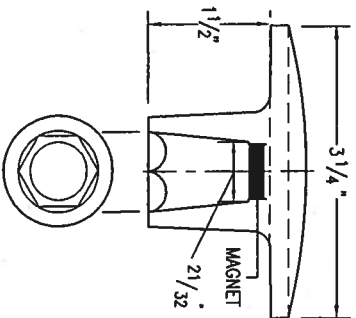
ROW
MONUMENT CAP

CONTROL
MONUMENT CAP

ALLYQUOT CORNER
MONUMENT CAP

ALUMINUM CAP

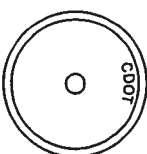
NOTE: A BLANK CAP MAY BE SUBSTITUTED IF THE APPROPRIATE CAP SHOWN ABOVE IS NOT AVAILABLE. IF A BLANK CAP IS USED, ALL INFORMATION NORMALLY INCLUDED ON THE APPROPRIATE STANDARD CAP, SHALL BE STAMPED ON THE BLANK CAP ALONG WITH SPECIFIC PROJECT INFORMATION SUCH AS PROJECT NO., DATE, POINT NO., ETC..



ALUMINUM CAP
USED WITH ALUMINUM ROD

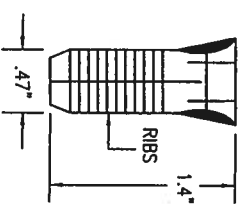
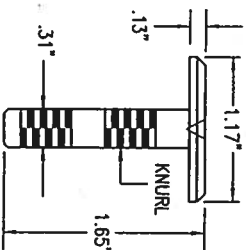
ALUMINUM CAP
TYPE 5
FOR PLACING IN EXISTING
CONCRETE OR ROCK

BRASS CAP
TYPE 5
FOR PLACING IN EXISTING
CONCRETE OR ROCK



MONUMENT APPLICATION

CAP TYPE	MONUMENT TYPE					
	1	1A	2	2A	3	3A
REFERENCE	X	X			X	X
ROW	X	X			X	X
CONTROL			X	X		
ALLYQUOT CORNER	X	X			X	X
PERMANENT EASEMENT						X
PROJECT POINTS						X
WITNESS POST * (REQUIRED)	X		X	X	X	



COPPER ALLOY CAP
TYPE 5(S)
FOR PLACING IN EXISTING
SIDEWALK, CURB, OR GUTTER

* WITNESS POSTS

THE WITNESS POST WILL BE SUPPLIED BY CDOT AND INSTALLATION SHALL BE INCLUDED IN THE WORK. IT SHALL BE DRIVEN WITHIN 1 FT. OF THE MONUMENT WHEN POSSIBLE. A DELINEATOR POST WITH A 9 IN. X 12 IN. METAL SIGN PANEL MAY BE USED IN LIEU OF THE PLASTIC POST. THIS POST SHALL CONFORM TO STANDARD PLAN S-612-1. A REQUIRED WITNESS POST MAY BE OMITTED WITH THE APPROVAL OF THE ENGINEER IF THE WITNESS POST LOCATION IS WITHIN A TRAVELED WAY, DRIVEWAY, OR ACCESS OPENING.

ALL MONUMENTATION MATERIALS WILL BE FURNISHED BY CDOT
THE MONUMENT TYPE SHALL MEET THE MINIMUM STANDARDS AS DETERMINED BY THE COLORADO STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS RULES (STATE BOARD RULES).
THE CDOT SURVEY COORDINATOR SHALL APPROVE ALL EXCEPTIONS FOR STAMPING MONUMENTS DIFFERING FROM THE STANDARDS.

TYPE 1 AND TYPE 1A ALUMINUM FINNED ROD MONUMENTS

THIS MONUMENT SHALL BE USED FOR ROW OR REFERENCE MONUMENTS OR MAY BE USED FOR AN ALLYQUOT CORNER MONUMENT. WHEN USED AS AN ALLYQUOT CORNER MONUMENT, INSTALLATION AND RECORD FLING REQUIREMENTS SHALL BE AS STATED FOR TYPE 3 AND TYPE 3A MONUMENTS.
MONUMENTS SHALL BE INSTALLED BY ATTACHING THE PROPER SIZE TIP TO ONE END OF A SECTION OF FINNED ROD, AND A 3 IN. LONG X 3/4 IN. DIA. STAINLESS STEEL ADAPTER TO THE OTHER END. THE DRIVER IS THEN PLACED OVER THE STAINLESS STEEL ADAPTER FOR THE HAMMER TO CONTACT. TYPE 1 MONUMENTS SHALL USE A MINIMUM 3 FT. SECTION OF FINNED ROD. WHEN SUBSURFACE ROCK OR CONCRETE IS ENCOUNTERED LESS THAN 3 FT. BELOW THE GROUND SURFACE, THE ROD SHALL BE EMBEDDED IN THE ROCK OR IN CONCRETE AT LEAST 6 IN. AND GROUTED IN PLACE. THE ROD MAY BE SHORTENED TO ACCOMMODATE THE CONDITIONS.
WHEN UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, ADDITIONAL SECTIONS OF ROD SHALL BE ADDED TO ACHIEVE STABILITY. HORIZONTAL AND VERTICAL STABILITY ARE REQUIRED.
TYPE 1A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 2 AND TYPE 2A ALUMINUM FINNED ROD MONUMENTS

THIS MONUMENT SHALL BE USED FOR HORIZONTAL AND VERTICAL CONTROL MONUMENTS. WHEN UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, ADDITIONAL SECTIONS OF ROD SHALL BE ADDED TO ACHIEVE STABILITY. HORIZONTAL AND VERTICAL STABILITY ARE REQUIRED. IN MOST SOIL CONDITIONS THE TYPE 2 MONUMENT IS EMBEDDED 6 FT. INTO THE GROUND.
THE MONUMENT SHALL BE INSTALLED BY FIRST ATTACHING THE PROPER SIZE TIP TO A 3 FT. LONG X 3/4 IN. DIA. ROD, THEN DRIVING THE ROD AT LEAST 30 IN. INTO THE GROUND. ADDITIONAL 3 FT. LONG X 3/4 IN. FINNED ROD SECTIONS SHALL BE ADDED AND DRIVEN FLUSH WITH THE GROUND UNTIL THE MONUMENT IS IN A STABLE POSITION. THE FINS ARE BENT OVER USING PLIERS TO ACCOMMODATE INSTALLING THE CAP. THE CAP IS FIRMLY SEATED ONTO THE LAST FINNED SECTION OF ROD USING A DEAD BLOW SLEDGE HAMMER.
TYPE 2A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 3 AND TYPE 3A ALUMINUM PIPE MONUMENTS

THIS MONUMENT SHALL BE USED FOR AN ALLYQUOT CORNER MONUMENT. THE INSTALLATION OF THIS MONUMENT AND RECORD FLING SHALL BE DONE IN ACCORDANCE WITH THE STATE BOARD RULES. ALSO REFER TO THE CDOT SURVEY MANUAL AND THE BUREAU OF LAND MANAGEMENT REQUIREMENTS FOR MONUMENT INSTALLATION. THE LAND SURVEYOR'S LICENSE NUMBER AND THE YEAR SHALL BE STAMPED ON THE CAP.
TYPE 3A MONUMENT INCLUDES MONUMENT BOX. A LOCKING CAST IRON ACCESS COVER SHALL BE INSTALLED WHEN THE MONUMENT IS LOCATED IN THE ROADWAY PAVEMENT.

TYPE 4 ALUMINUM MONUMENT

THIS MONUMENT MAY BE INSTALLED IN LIEU OF REPLACING THE ENTIRE MONUMENT WHEN REBAR IS IN PLACE AT AN ALLYQUOT CORNER LOCATION. REFER TO THE STATE BOARD RULES. A MINIMUM 2 IN. DIA. CAP SHALL BE USED ON 3/4 IN. (#6) REBAR.
THIS MONUMENT MAY BE INSTALLED IN LIEU OF ALL OTHER CDOT MONUMENTS, WHEN THE POSITION IS LOCATED IN CONCRETE OR STABLE ROCK FORMATION.

TYPE 5 BRASS/ALUMINUM CAP MONUMENT

THIS MONUMENT MAY BE INSTALLED IN LIEU OF A TYPE 5 MONUMENT, WHEN THE POSITION IS LOCATED IN A CONCRETE SIDEWALK, CURB OR GUTTER, OR WHEN SETTING A TYPE 5 WOULD COMPROMISE THE INTEGRITY OF THE RECEIVING STRUCTURE.

TYPE 5(S) COPPER ALLOY CAP MONUMENT - SMALL

THIS MONUMENT MAY BE INSTALLED IN LIEU OF A TYPE 5 MONUMENT, WHEN THE POSITION IS LOCATED IN A CONCRETE SIDEWALK, CURB OR GUTTER, OR WHEN SETTING A TYPE 5 WOULD COMPROMISE THE INTEGRITY OF THE RECEIVING STRUCTURE.

STAMPING REQUIREMENTS:

- "RP", WHEN THE APPLICATION IS A REFERENCE POINT.
- "ROW", POINT NUMBER, "LS", AND REGISTRATION NUMBER WHEN THE APPLICATION IS A ROW POINT.
- "CP" AND A UNIQUE IDENTIFIER PROVIDED BY THE REGION SURVEY COORDINATOR, WHEN THE APPLICATION IS A CONTROL POINT.
- "PE", POINT NUMBER, "LS", AND REGISTRATION NUMBER, WHEN THE APPLICATION IS A PERMANENT EASEMENT POINT.
- "PP" AND POINT NUMBER, WHEN THE APPLICATION IS A PROJECT POINT.

TYPE 6 ALUMINUM MONUMENT

THIS MONUMENT SHALL BE USED FOR PERMANENT EASEMENTS, PROJECT BENCH MARKS, PROJECT POINTS, AND REFERENCES. AN ALUMINUM CAP WITH A MINIMUM DIAMETER OF 1 1/2 IN., SHALL BE USED ON 5/8 IN. (#5) MINIMUM REBAR.

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Sheet Revisions

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(R-X)	
(R-X)	
(R-X)	

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Project Development Branch

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SURVEY
MONUMENTS

STANDARD PLAN NO.

M-629-1

Issued By: Project Development Branch on July 04, 2006

Sheet No. 2 of 2