

Sheet Revisions		
Date	Description	Initials
06/11/15	REV. SHEETS 2.01, 3.03, 7.01 AND 8.01	JMK

Sheet Revisions		
Date	Description	Initials

Right of Way Plans			
Title Sheet			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTROSE			
CULVERTS			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
18266	06-11-15	1.01 of 1.01	1.01

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

## RIGHT OF WAY PLANS OF PROPOSED PROJECT NO. C 0241-057

STATE HIGHWAY NO. 24  
 SECTION 36  
 T-5-S, R-81-W, 6TH PM  
 EAGLE COUNTY

Length of Construction Project = 0.072 Miles  
 Length of ROW Project = 0.047 Miles

STATE HIGHWAY NO. 348  
 SECTION 28  
 T-51-N, R-11-W, NMPM  
 MONTROSE COUNTY

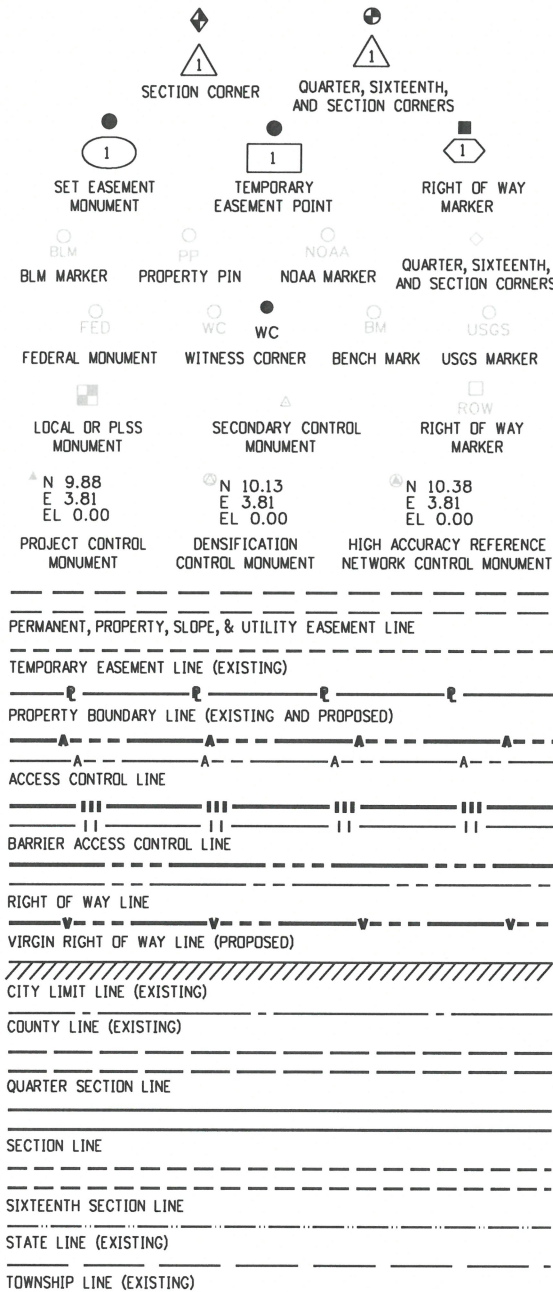
Length of Construction Project = 0.019 Miles  
 Length of ROW Project = 0.031 Miles

SHEET NO.	INDEX OF SHEETS
1.01	(1) Title Sheet
2.01-2.02	(2) Tabulation of Properties
3.01-3.05	(5) Project Control Diagram (provided by CDDT)
4.01-4.03	(3) Land Survey Control Diagram
5.01-5.02	(2) Monumentation Sheets
7.01-7.02	(2) Plan Sheets
8.01-8.02	(2) Ownership Map
	(17) Total Sheets

1. This Right-of-Way Plan is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.

2. For title information, The Farnsworth Group relied on Title Commitments, prepared by Commonwealth Land Title Insurance Company and Westcor Land Title Insurance Company for The Colorado Department of Transportation.

3. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDDT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.

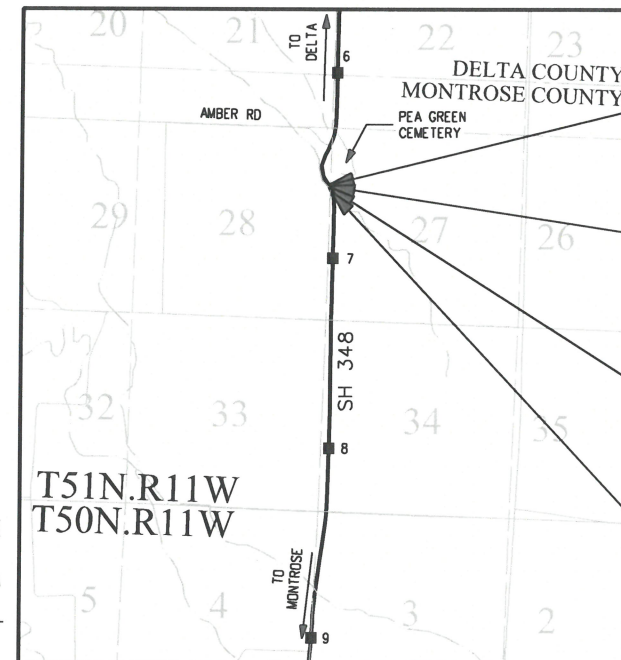
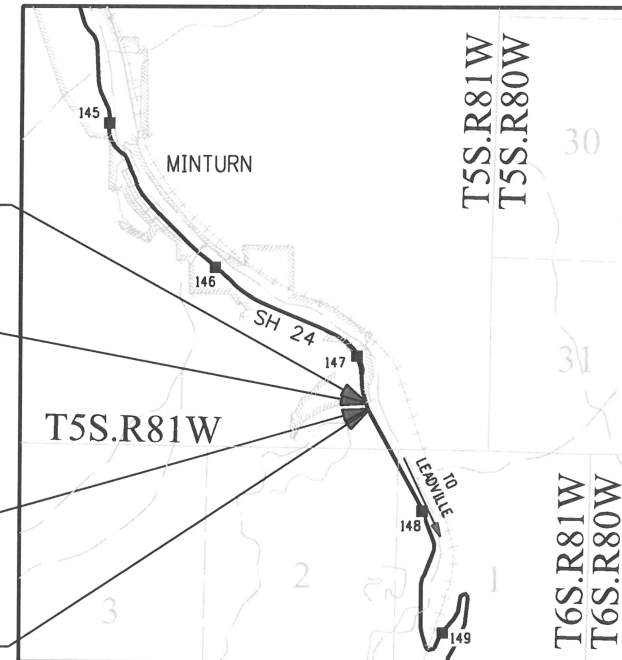


BEGIN CONSTRUCTION  
 PROJ C 0241-057  
 STA 102+20.00  
 MP 147.081

BEGIN ROW  
 PROJ C 0241-057  
 STA 103+20.38  
 MP 147.100

END ROW  
 PROJ C 0241-057  
 STA 105+66.97  
 MP 147.147

END CONSTRUCTION  
 PROJ C 0241-057  
 STA 106+00.00  
 MP 147.153



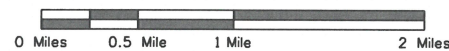
END ROW  
 PROJ C 0241-057  
 STA 507+90.00  
 MP 6.543

END CONSTRUCTION  
 PROJ C 0241-057  
 STA 507+50.00  
 MP 6.536

BEGIN CONSTRUCTION  
 PROJ C 0241-057  
 STA 506+50.00  
 MP 6.517

BEGIN ROW  
 PROJ C 0241-057  
 STA 506+25.00  
 MP 6.512

PROJECT LOCATION MAPS



1" = 1 Mile

Linear Units = U.S. Survey Feet

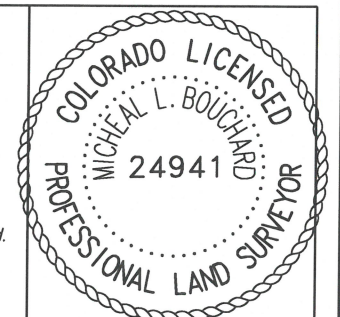
**Authorized**  
 COLORADO DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY PROJECT  
 Date: 06/11/15  
 ROW PLANS AUTHORIZED: \_\_\_\_\_ DATE \_\_\_\_\_  
 \_\_\_\_\_  
 CDDT RIGHT-OF-WAY MANAGER

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.

SURVEYOR STATEMENT (ROW PLAN)

I, Micheal L. Bouchard, 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 applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 24941



FILING CERTIFICATION: DAY OF \_\_\_\_\_, 20\_\_\_\_, AT \_\_\_\_\_ M.,  
 DEPOSITED THIS \_\_\_\_\_ OF THE COUNTY LAND SURVEYS/RIGHT OF WAY  
 IN BOOK \_\_\_\_\_ RECEPTION NUMBER \_\_\_\_\_  
 SIGNED \_\_\_\_\_ DEPT. \_\_\_\_\_  
 6/11/2015 1:25:33 PM c:\projectwise\pzw\_working\dl498263\18266ROW\_TitleSh.dgn

Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2012. Existing topo features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening, except as noted with the word (proposed).





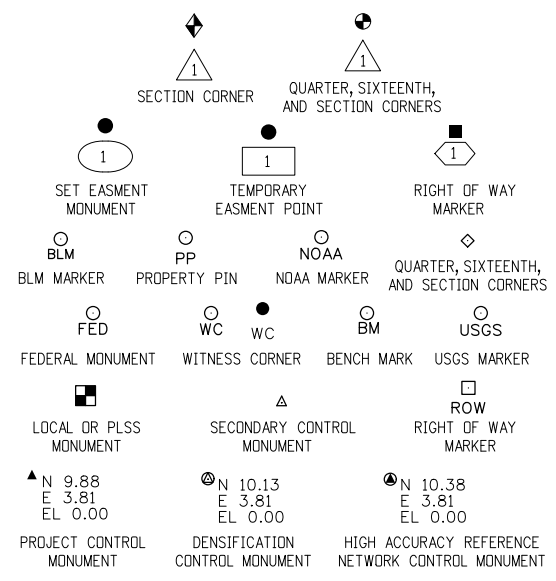
Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials

Project Control Diagram			
Title Sheet			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTRORSE			
CULVERTS (SH 24-MINTURN)			
Project Code:	Last Mod. Date:	Subset	Sheet No.
18266	10-29-14	3.01 to 3.05	3.01

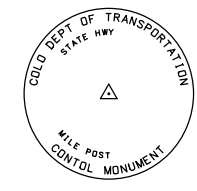
# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

SHEET NO.	INDEX OF SHEETS
3.01	(1) Title Sheet
3.02	(1) Coordinate Tables
3.03	(1) Plan Sheet
<hr/>	
	(3) Total Sheets

PROJECT CONTROL DIAGRAM  
 State Highway 24 MP 146.50 to 147.50  
 Section 36  
 Township 5 South, Range 81 West  
 of the 6th Principal Meridian  
 County of Eagle



Note: For a complete listing of symbolology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2012. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

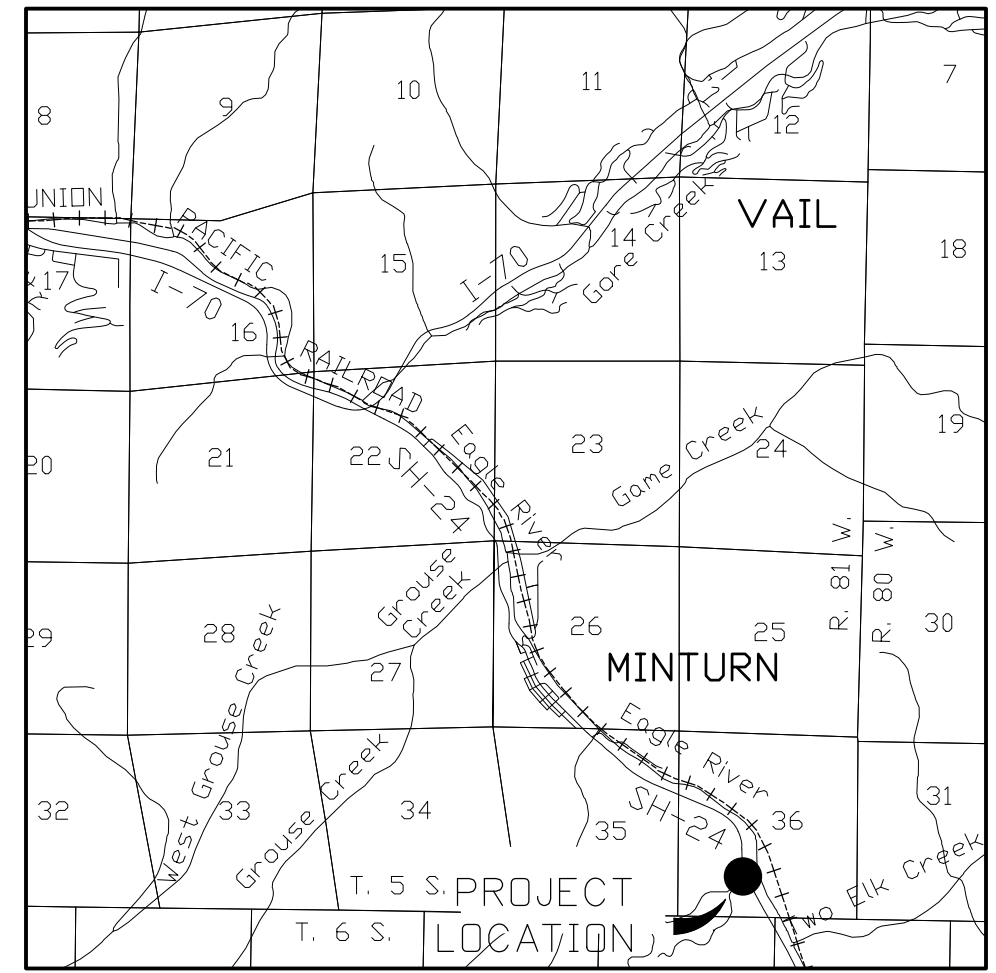


Typical Control Monument Cap  
Not to Scale

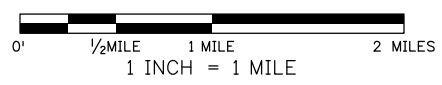
▲ CM-MP - Control Point Monuments set by CDOT. They are CDOT Type 2 monuments, a 3 1/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

General Notes:

1. This Project Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
2. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDOT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
3. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.



PROJECT LOCATION MAP



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of N 32° 31' 29" W from CM-MP 147.1 to CM-MP 147.3. Both monuments are CDOT Type II, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey base on the Colorado High Accuracy Reference Network (CHARN).

Basis of Elevations: Project elevations are based on Bench Mark G 2, PID: KL0009, a standard bench mark disk set in a concrete culvert headwall, with a NAVD 88 elevation of 7972.08ft. G 2 is a First Order, Class II benchmark.

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(2007) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.000409431. The resulting project coordinates are truncated by 1,600,000sft in the Northing and 2,700,000sft in the Easting after converting from State Plane Coordinates to Project Coordinates. The CHARN is based on the NAD '83(2007) Datum.

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.

SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, Jonathan M. Kobylarz, a Professional Land Surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that this Project Control Diagram was prepared and the field survey it represents was performed under my responsible charge, and based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 25954

Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials

Project Control Diagram			
Coordinate Tables			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTRROSE			
CULVERTS(SH 24-MINTURN)			
Project Code:	Last Mod. Date	Subset	Sheet No.
18266	10-29-14	3.01 of 3.05	3.02



CHARN GEODETIC COORDINATE SUMMARY TABLE									
Point No.	Geodetic Coordinates NAD-83(2007) (CHARN)		Elip Height (NAVD83) (m)	Ortho Height (m)	Mapping Angle	Grid Scale Factor	NAD 83(2007) Zone 0502		Description
	Latitude(N)	Longitude(W)					SP Northing(m)	SP Easting(m)	
GPS 004	39° 33' 18.65743" N	106° 24' 05.31122" W	2461.113	2473.533	-0° 34' 07"	0.999967267	496326.588	836928.011	CP-GPS 004 Brass Disk in Bridge Abuttment
S 280	39° 34' 51.17081" N	106° 25' 16.38823" W	2393.763	2406.237	-0° 34' 52"	0.999970920	499196.548	835260.211	CP-S 280 Benchmark Disk in Boulder



GEODETIC COORDINATE TABLE									
Point No.	Geodetic Coordinates NAD-83(2007) (CHARN)		Elip Height (NAVD88) (m)	Ortho Height (m)	Mapping Angle	Grid Scale Factor	NAD 83(2007) Zone 0502		Description
	Latitude(N)	Longitude(W)					SP Northing(m)	SP Easting(m)	
G 1471	39° 34' 14.72953" N	106° 24' 26.11984" W	2419.501	2431.951	-0° 34' 20"	0.999969457	498060.691	836448.542	CDOT Type II Monument (MP - 147.1)
G1472	39° 34' 11.48546" N	106° 24' 23.55'26" W	2418.985	2431.432	-0° 34' 19"	0.999969328	497960.133	836499.300	CDOT Type II Monument (MP - 147.2)
G1473	39° 34' 09.46701" N	106° 24' 21.68773" W	2419.749	2432.196	-0° 34' 17"	0.999969248	497897.349	836552.702	CDOT Type II Monument (MP - 147.3)



PROJECT COORDINATE TABLE				
Point No.	Project Coordinates		Elev(ft) (NAVD88)	Description
	Northing(ft)	Easting(ft)		
P1471	34054.251	44248.191	7978.83	CDOT Type II Monument (MP 147.1)
P1472	33724.203	44414.787	7977.12	CDOT Type II Monument (MP 147.2)
P1473	33518.133	44590.063	7979.63	CDOT Type II Monument (MP 147.3)

LOCAL SITE SETTINGS	
COORDINATE SYSTEM:	US STATE PLANE 1983 (MODIFIED-AT GROUND)
COORDINATE ZONE:	COLORADO CENTRAL (0502)
COORDINATE DATUM:	NAD 1983 (2007)
COORDINATE DATUM TRANSFORMATION:	NAD 1983 (Conus) (Molodensky)
GEOID:	GEOID 09 (CONUS)
PROJECT LATITUDE:	39° 34' 11.48546" N
PROJECT LONGITUDE:	106° 24' 23.95126" W
PROJECT HEIGHT:	2418.985(m)
GROUND SCALE FACTOR:	1.000409431
FALSE NORTH OFFSET:	1300000 sft
FALSE EAST OFFSET:	2700000 sft
SEED POINT NORTHING:	1333724.203 sft
SEED POINT EASTING:	2744414.787 sft
COORDINATE UNITS:	US SURVEY FEET
ELEVATION UNITS:	US SURVEY FEET

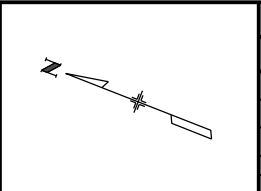
Note:  
 To get from Project Coordinates to State Plane Coordinates;  
 Add the false reduction to the respective Northing or Easting project coordinate, then subtract the respective seed point North or East coordinate, then divide the difference by the ground scale factor, then add that number back to the seed point North or East coordinate, then divide by (3937/1200) to get the State Plane Coordinate.

Example of Project Coordinates to State Plane Coordinates on point P1471:  
 Northing: 34,054.251sft + 1,600,000sft = 1,634,054.251sft - 1,633,724.203sft = 330.048sft / 1.000409431 = 329.913sft + 1,633,724.203sft = 1,634,054.116sft / (3937/1200) = 498,060.691(m)  
 Easting: 44,248.191 + 2,700,000sft = 2,744,248.191 - 2,744,414.787 = -166.596 / 1.000409431 = -166.528 + 2,744,414.787 = 2,744,248.259 / (3937/1200) = 836,448.542(m)

Sheet Revisions		
Date	Description	Initials
06/11-15	SHEET REPLACED WITH VERSION SHOWING TOPOGRAPHIC FEATURES	JMK

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

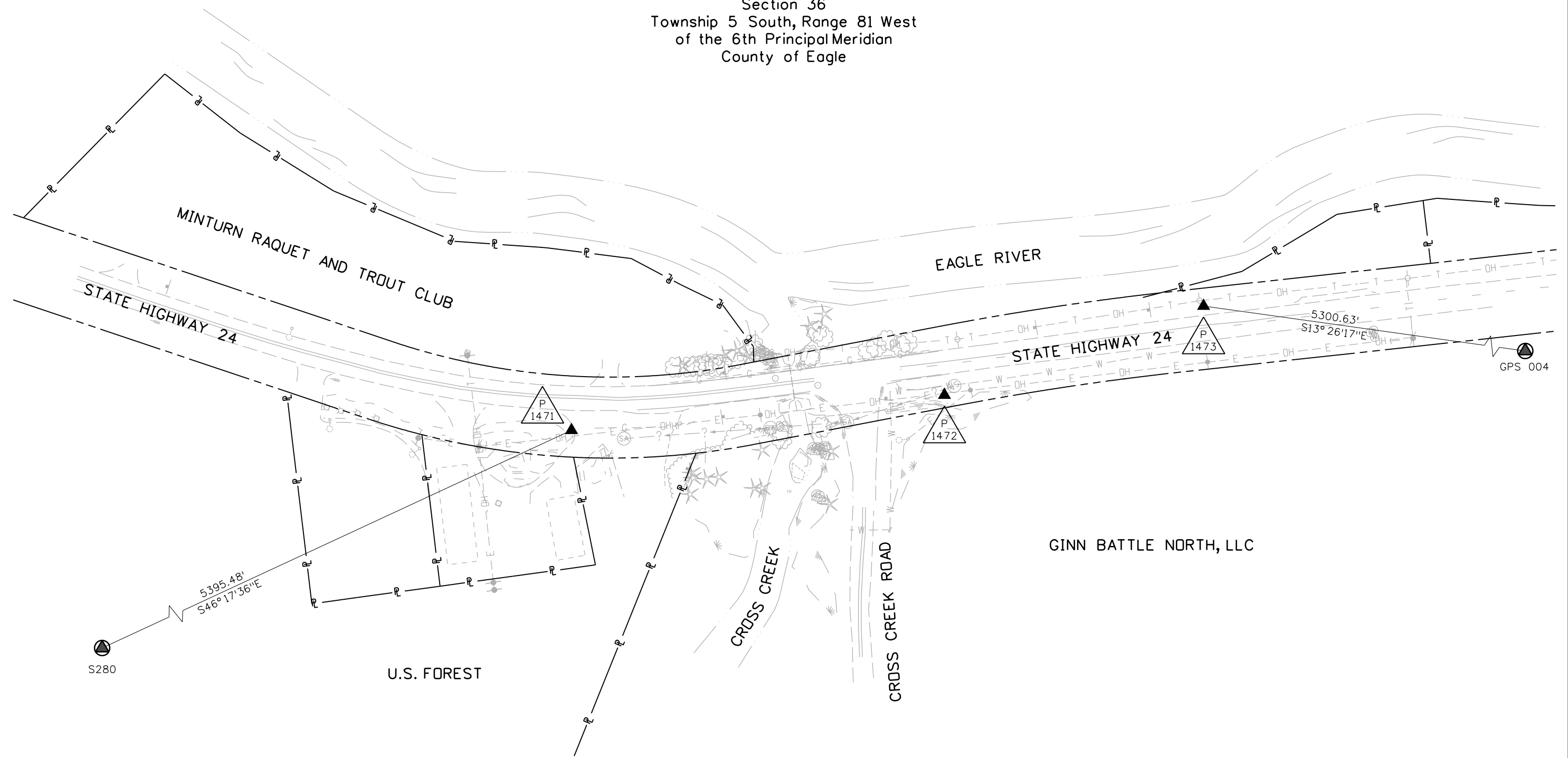
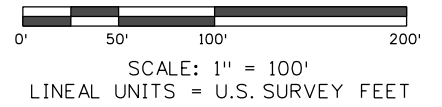


Project Control Diagram			
Plan Sheet			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTROSE			
Project Code:	Last Mod. Date	Subset	Sheet No.
18266	<del>06-08-14</del>	<del>3.00 to 3.03</del>	3.03

REPLACED SHEET 06-11-15 3.01 to 3.05

DEPARTMENT OF TRANSPORTATION  
 STATE OF COLORADO  
 PROJECT CONTROL DIAGRAM

State Highway 24 MP 146.50 to 147.50  
 Section 36  
 Township 5 South, Range 81 West  
 of the 6th Principal Meridian  
 County of Eagle



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Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials



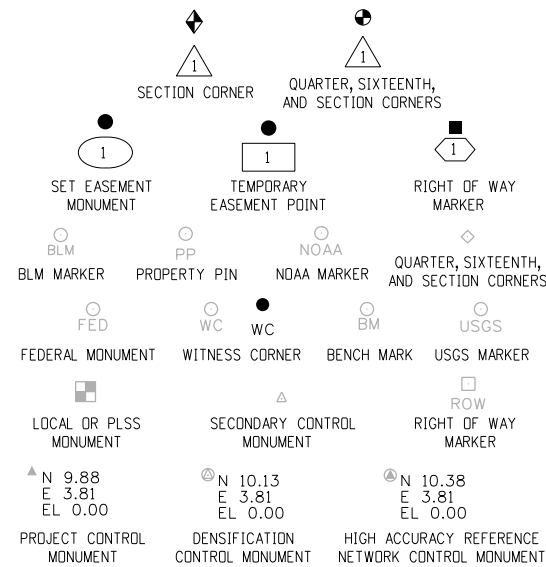
Project Control Diagram			
Title Sheet			
Project Number: C 0241-057			
Project Location: SH 24/50/348 Minturn/Montrose			
Culverts(SH 348, Montrose)			
Project Code:	Last Mod. Date	Subset	Sheet No.
18266	10-23-2014	3.01 to 3.05	3.04

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

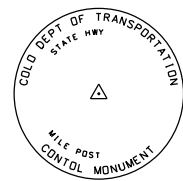
SHEET NO.	INDEX OF SHEETS
3.04	(1) Title Sheet
3.05	(1) Coordinate Tables and Plan Sheet
	(2) Total Sheets(SH 348 MONTROSE)

## PROJECT/ LAND SURVEY- CONTROL DIAGRAM

State Highway 348 MP 6.3 to 6.9  
 Section 28  
 Township 51 North, Range 11 West  
 of the Bew Mexico Principal Meridian  
 County of Montrose



Note: For a complete listing of symbolology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July, 2006. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

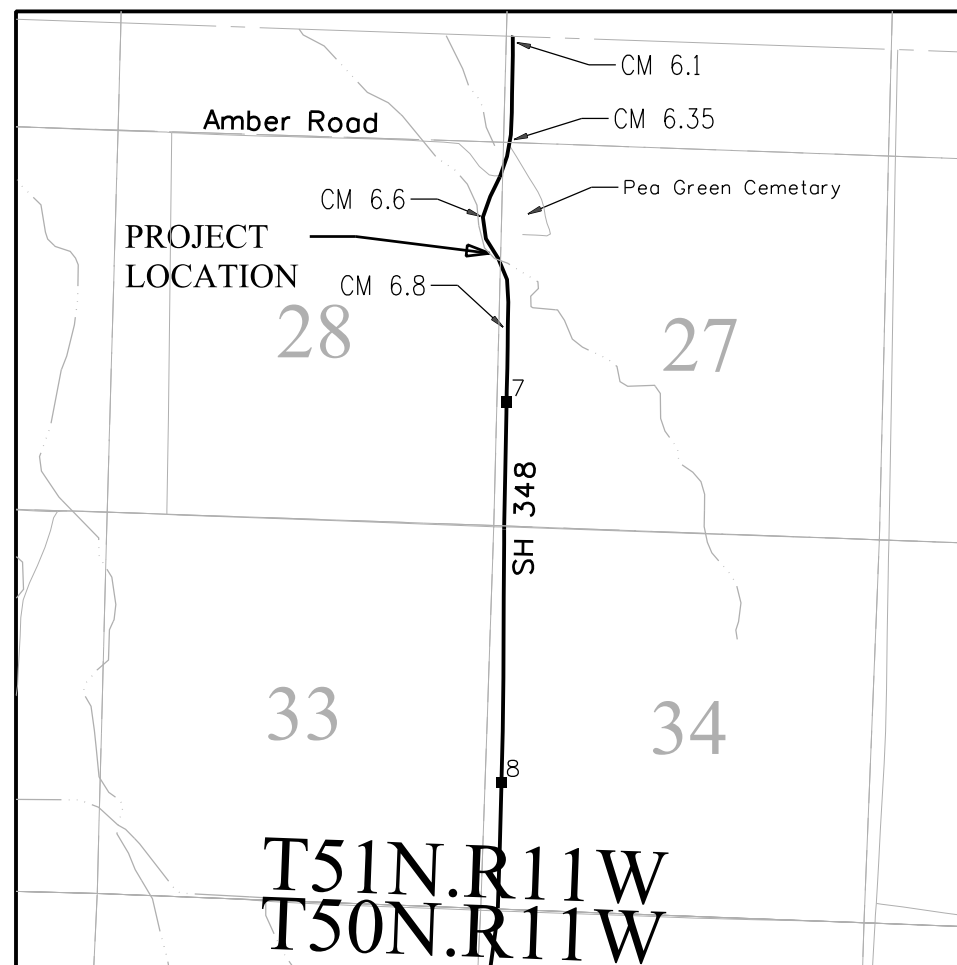


Typical Control Monument Cap  
Not to Scale

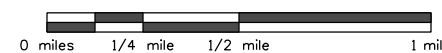
▲ CM-MP - ControlPoint Monuments set by CDDT. They are CDDT Type 2 monuments, a 3 1/4" dia. aluminum control monument cap (as shown) on a 3' x 3/4" dia. aluminum security rod on a 3' x 3/4" dia. smooth aluminum rod.

General Notes:

1. This Project Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only.
2. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDDT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
3. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2006 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.



PROJECT LOCATION MAP



SCALE: 1" = 1/2 mile

Lineal Units = U.S. Survey Feet



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of S 22° 22' 26" E from CM 6.6 to CM 6.8 . Both monuments are CDDT Type II, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey base on the Colorado High Accuracy Reference Network (CHARN).

Basis of Elevations: Project elevations are based on Bench Mark CM 6.35, a CDDT Type II Monument, with an assumed elevation of 5276.09 feet. This assumed elevation was derived from GPS observations of control points CM 6.35 and NGS point Z429 (Pid# JLO647) which were adjusted using GEIOD12A(conus).

COORDINATE DATUM: Project coordinates are modified Colorado State Plane South Zone NAD '83/(2011) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.0001987854. To get from Project Coordinates to State Plane Coordinates; Add the false reduction to the Northing or Easting project coordinates, then subtract the seed point North or East coordinates, then divide the difference by the ground scale factor, then add that number back to the seed point North or East coordinates to get the State Plane Coordinates.

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.

SURVEYOR STATEMENT (PROJECT CONTROL DIAGRAM)

I, George Preiser, a Professional Land Surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that this Project Control Diagram and the field survey it represents were prepared and performed under my responsible charge and, based upon my knowledge, information and belief, are in accordance with applicable standards of practice as defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 38055

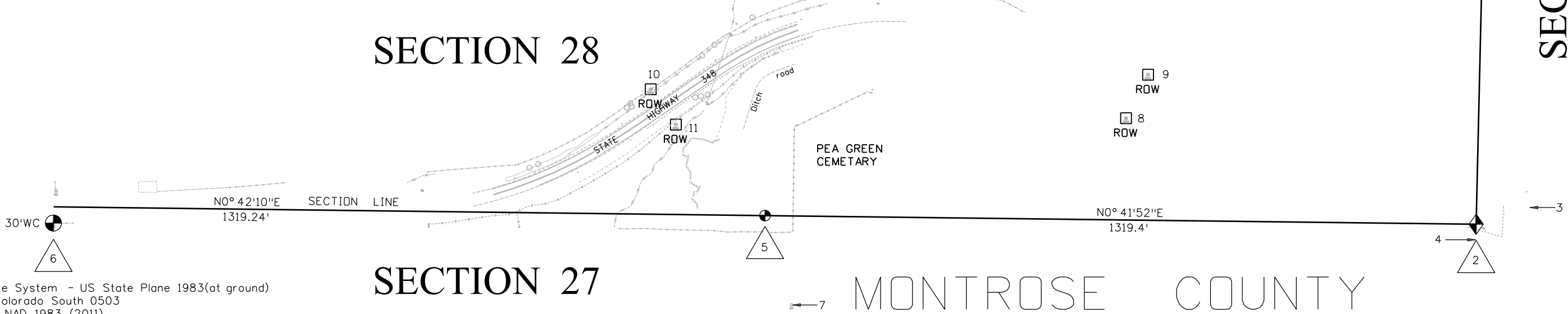
Sheet Revisions			Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials	Date	Description	Initials
mm/dd/yy	XXXXXXXX	XXX	mm/dd/yy	XXXXXXXX	XXX	mm/dd/yy	XXXXXXXX	XXX

Project/Land Survey-Control Diagram			
Coordinate Tables			
Project Number: C 0241-057			
Project Location: SH 24/50/348 Minturn/Montrose			
Culverts(SH 348, Montrose)			
Project Code:	Last Mod. Date	Subset	Sheet No.
18266	10-23-2014	3.01 to 3.05	3.05



GEODETTIC COORDINATE TABLE									
Point No.	Geodetic Coordinates NAD-83(XX) (CHARN)		Elip Height (NAVD88) (m)	Ortho Height (m)	Mapping Angle	Grid Scale Factor	NAD 83(XX) Zone XXXX		Description
	Latitude(N)	Longitude(W)					SP Northing(m)	SP Easting(m)	
CM 6.1	38°40'06.17429" N	108°05'44.76289" W	1585.374	1602.299	-1°35'32"	1.000051362	530110.270	688511.455	CDOT Type II Monument (MP 6.1)
CM 6.35	38°39'51.98034" N	108°05'44.70950" W	1591.231	1608.155	-1°35'32"	1.000050361	529672.698	688500.584	CDOT Type II Monument (MP 6.35)
CM 6.6	38°39'40.77182" N	108°05'49.57309" W	1576.952	1593.875	-1°35'35"	1.000049573	529330.458	688373.432	CDOT Type II Monument (MP 6.6)
CM 6.8	38°39'32.51764" N	108°05'44.89341" W	1584.394	1601.316	-1°35'32"	1.000048995	529072.875	688479.463	CDOT Type II Monument (MP 6.8)

PROJECT COORDINATE TABLE				
Point No.	Project Coordinates		Elev(ft) (NAVD88)	Description
	Northing(ft)	Easting(ft)		
CM 6.1	33170.39700	27924.67300	5256.874	CDOT Type II Monument (MP 6.1)
CM 6.35	31734.51100	27888.99900	5276.089	CDOT Type II Monument (MP 6.35)
CM 6.6	30611.45600	27471.75000	5229.238	CDOT Type II Monument (MP 6.6)
CM 6.8	29766.19900	27819.69000	5253.651	CDOT Type II Monument (MP 6.8)
CM z429	25451.92300	56382.15200	5243.343	NGS Deep Rod in Mon. box PID JL0647



FOUND MONUMENT COORDINATE TABLE			
Point No.	Project Coordinates		Description
	Northing(ft)	Easting(ft)	
1	31783.339	25215.841	N 1/4 Sec. 28 2" Alum. Cap on No. 6 rebar
2	31722.083	27882.455	NE corner Sec. 28 1-1/2" Alum. Cap
3	31720.128	27911.327	NE corner Sec. 28 RM 2" Alum. Cap on No. 6 rebar
4	31821.805	27851.515	NE corner Sec. 28 RM 2" Alum. Cap on No. 6 rebar
5	30402.783	27866.386	N 1/16 Sec. 27-28 3-1/4" Alum. Cap on No. 6 rebar
6	29082.747	27880.258	W 1/4 cor. Sec. 27 (30' WC) 3-1/4" Al. Cap on No. 6 rebar
7	30452.162	28032.402	1.5" Alum Cap on No. 5 Rebar
8	31072.460	27685.355	3.25" BC in 6" conc. cyl. (Row Mon. Leaning SW)
9	31113.478	27604.642	3.25" BC in 6" conc. cyl. (Row Mon.)
10	30190.771	27361.655	3.25" BC in 6" conc. cyl. (Row Mon.)
11	30237.472	27697.225	3.25" BC in 6" conc. cyl. (Row Mon.)

Coordinate System - US State Plane 1983(at ground)  
 Zone - Colorado South 0503  
 Datum - NAD 1983 (2011)  
 Geoid: 12A(Conus)  
 Project Latitude - 38° 39'51.98033" N  
 Project Longitude - 108° 05'44.70949" W  
 Project Height - 5220.565ft  
 Ground Scale Factor - 1.0001987854  
 False Northing - 1706033.333ft  
 False Easting - 2230966.667ft  
 Seed Point Northing: 1737767.843ft  
 Seed Point Easting: 2258855.666ft  
 State Plane to Project Conversion: (Add the false reduction to the Northing (Easting) project coordinates, then subtract the seed point North or East coordinates, then divide the difference by the ground scale factor, then add that number back to the seed point North (Easting) coordinates to get the State Plane Coordinates.  
 Example: [1706033.333 + 33170.397 - 1737767.843] / 1.0001987854 + 1737767.843 = 1,739,203.444ft(530110.270m)

BASIS OF ELEVATIONS: Project is based on a elevation of 5276.09'(feet) on ControlPoint CM 6.35, a CDDT ROW Monument as established for this project. This elevation was derived using GPS CORS stations and NGS point Z429 (Pid # JL0647). There are no existing Bench Marks in the project area. Therefore elevation were not verified to any existing Bench Mark Datums. All other ControlPoints on this Project were then tied in by means of running a Bench Loop.

10/23/2014 11:51:48 AM C:\projectwise\pwworking\0186492\18266SH348SURV\_PCD-Coord.dgn

Sheet Revisions		
Date	Description	Initials

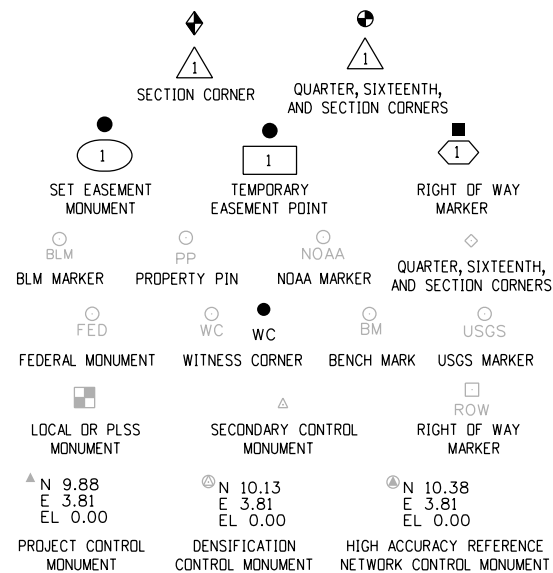
Sheet Revisions		
Date	Description	Initials

Land Survey Control Diagram			
Title Sheet			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTRDSE			
CULVERTS (SH 24 - MINTURN)			
Project Code:	Last Mod. Date	Subset	Sheet No.
18266	12-13-14	4.01 of 4.03	4.01

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO LAND SURVEY CONTROL DIAGRAM

SHEET NO.	INDEX OF SHEETS
4.01	(1) Title Sheet
4.02	(1) Monument Coordinate Tables
4.03	(1) Plan Sheet
(3) Total Sheets	

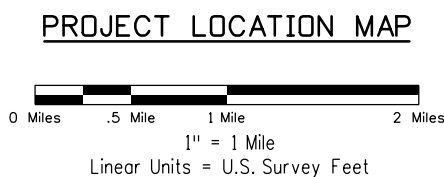
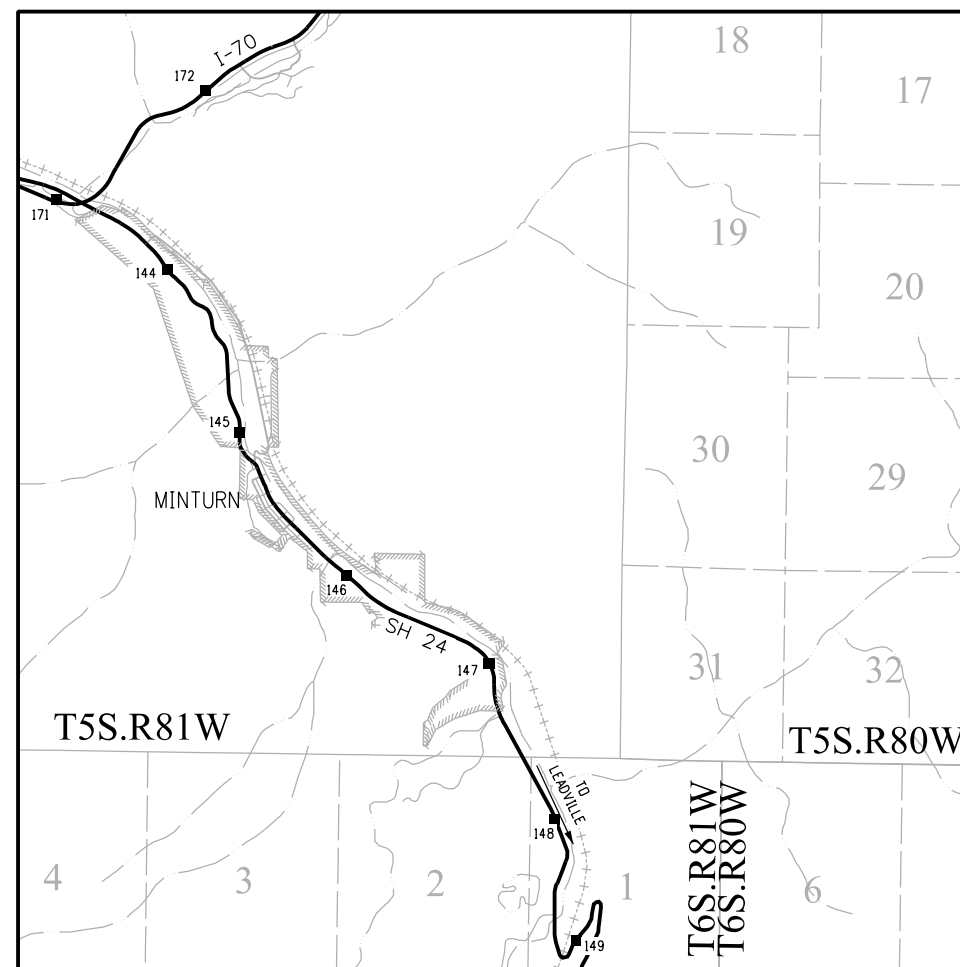
State Highway 24 MP 146.5 to 147.5  
 Section 36  
 Township 5 South, Range 81 West  
 of the 6th Principal Meridian  
 County of Eagle



Note: For a complete listing of symbology used within this set of plans, please refer to the M-100-1 Standard Symbols of the Colorado Department of Transportation M&S Standards Publication dated July 2012. Existing features are shown as screened weight (gray scale). Proposed or new features are shown as full weight without screening.

General Notes:

1. This Land Survey Control Diagram is not a boundary survey of the adjoining property and is prepared for the Colorado Department of Transportation purposes only. No determination has been made to determine if the found monuments as shown are in their proper position or if they are at the corners they are intended to monument.
2. Title policy, title commitment, and title research are not part of this survey, therefore easements, rights, and restrictions of record were not researched and are not shown on this diagram. The verification of the physical evidence with relation to easements, rights of ways, property boundaries, and restrictions, as described in the instruments of record, were not included in this control survey.
3. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDDT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.
4. Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for typical survey monument descriptions.



Basis of Bearings: Bearings used in the calculations of coordinates are based on a grid bearing of S32° 31' 29" E from CM-MP 147.1 to CM-MP 147.3, from CDDT Project Control Diagram for Project Number C 0241-057. Both monuments are CDDT Type II, marked appropriately for their milepost location and control position. The survey data was obtained from a Global Positioning System (GPS) survey base on the Colorado High Accuracy Reference Network (CHARN).

Basis of Elevations: Project elevations are based on Bench Mark G2, PID: KL0009, a standard bench mark disk set in a concrete culvert headwall, with a NAVD 88 elevation of 7972.08ft. G2 is a First Order, Class II benchmark.

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(2007) coordinates. The ground scale factor used to modify the coordinates from state plane to project coordinates is 1.000409431. The resulting project coordinates are truncated by 1,600,000sft in the Northing and 2,700,000sft in the Easting after converting from state plane coordinates to project coordinates, a local site seed point Northing of 1,633,724.203 ft and a local site seed point Easting of 2,744,414.787 were also used in the modification. The CHARN is based on the NAD '83(2007) datum.

Project Coordinates Northing US Survey Feet = (State Plane Coordinate Northing US Survey Feet - 1,633,724.203 \* 1.000409431) + 1,633,724.203 - 1,600,000.

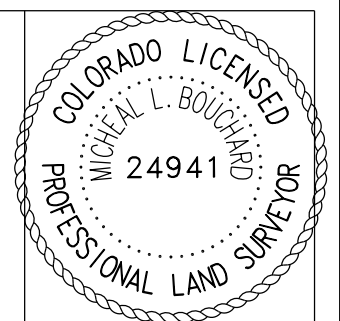
Project Coordinates Easting US Survey Feet = (State Plane Coordinate Easting US Survey Feet - 2,744,414.787 \* 1.000409431) + 2,744,414.787 - 2,700,000.

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.

SURVEYOR STATEMENT (LAND SURVEY CONTROL DIAGRAM)

I, Michael L. Bouchard, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation this Land Survey Control Diagram was prepared and the field survey it represents was performed under my responsible charge and, based upon my knowledge, information and belief is in accordance with applicable standards of practice defined by Colorado Department of Transportation publications. This statement is not a guaranty or warranty, either expressed or implied.

PLS No. 24941



Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Land Survey Control Diagram Coordinate Tables			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTRDSE			
CULVERTS (SH 24 - MINTURN)			
Project Code:	Last Mod. Date	Subset	Sheet No.
18266	12-13-14	4.02 of 4.03	4.02

◇

FOUND ALIQUOT MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
5001	32644.91	44937.55	2 1/2" DIA BRASS CAP - USGLOS 1933

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PP

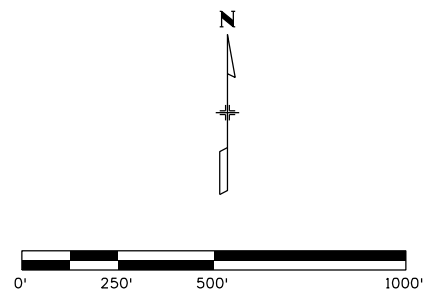
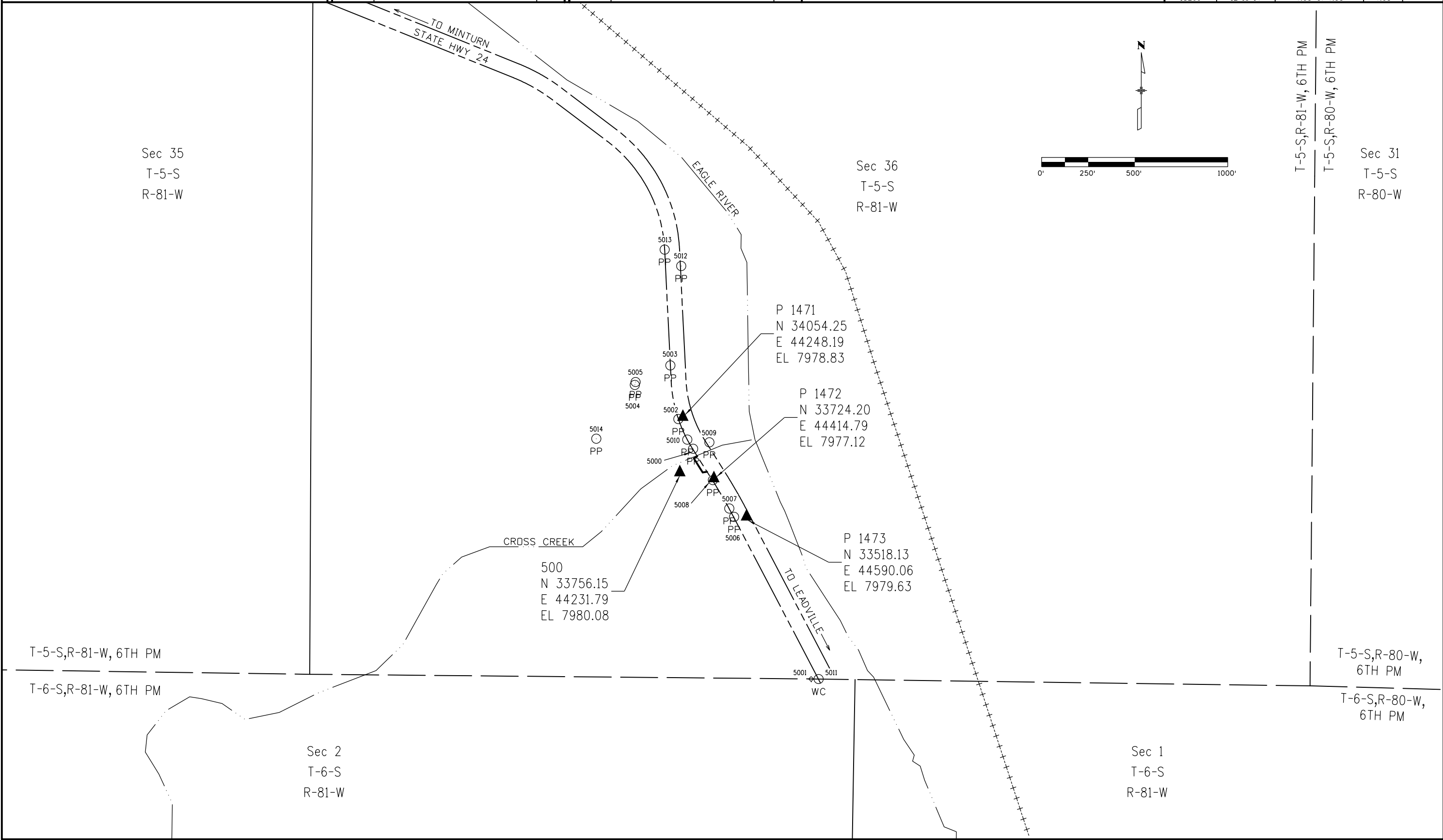
FOUND BOUNDARY MONUMENT COORDINATE TABLE			
Point No.	Northing(ft)	Easting(ft)	Description
5000	33882.20	44303.43	1 1/2" DIA AL CAP - G & A 28036
5002	34042.11	44224.27	3 1/4" DIA AL CAP - US DEPT OF AG - LS 7235 1984
5003	34330.22	44181.15	3 1/4" DIA AL CAP - US DEPT OF AG - LS 7235 1984
5006	33515.97	44523.46	1 1/2" DIA AL CAP - G & A 28036
5007	33561.40	44497.92	1 1/2" DIA AL CAP - PROP COR PE PLS 23089
5008	33713.76	44409.50	1 1/2" DIA AL CAP - G & A 28036
5009	33917.11	44390.56	YPC - RUSSELL LS 23519
5010	33931.65	44271.92	3 1/4" DIA AL CAP - US DEPT OF AG - LS 7235 1984
5011	32644.35	44977.79	1 1/2" DIA AL CAP - WC - G & A 28035
5012	34864.70	44239.46	3" DIA BRASS CAP ON IRON ROD
5013	34952.99	44150.18	3 1/4" DIA AL CAP - US DEPT OF AG - LS 7235 1984
5014	33936.25	43782.55	3 1/4" DIA AL CAP - US DEPT OF AG - LS 7235 1984

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Land Survey Control Diagram			
Plan Sheet			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTRDSE			
CULVERTS (SH 24 - MINTURN)			
Project Code:	Last Mod. Date	Subset	Sheet No.
18266	12-13-14	4.03 of 4.03	4.03

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Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Right of Way Plans Monumentation Sheet			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTRDSE			
CULVERTS (SH 24 - MINTURN)			
Project Code:	Last Mod. Date	Subset	Sheet No.
18266	12-13-14	5.01 of 5.02	5.01

■ (XX)

TABULATION OF ROW MONUMENTS TO BE SET					
Point No.	Northing(ft)	Easting(ft)	Description	Station	Offset
101	33758.91	44378.21	CDOT TYPE 2 MONUMENT	105+48.89	47.70 RT
102	33755.2	44354.53	CDOT TYPE 2 MONUMENT	105+40.60	70.18 RT
103	33830.08	44307.27	CDOT TYPE 2 MONUMENT	104+52.19	74.99 RT
104	33841.82	44325.87	CDOT TYPE 2 MONUMENT	104+50.99	53.03 RT

● (XXX)

TABULATION OF PERMANENT EASEMENT MONUMENTS TO BE SET					
Point No.	Northing(ft)	Easting(ft)	Description	Station	Offset
200	33855.93	44429.21	CDOT TYPE 6 MONUMENT	104+89.00	44.10 LT
201	33847.96	44416.60	CDOT TYPE 6 MONUMENT	104+89.81	29.21 LT
202	33911.29	44376.62	CDOT TYPE 6 MONUMENT	104+15.03	25.14 LT

● (XXX)

TABULATION OF TEMPORARY EASEMENT POINTS TO BE STAKED					
Point No.	Northing(ft)	Easting(ft)	Description	Station	Offset
302	33782.61	44457.85		105+66.97	33.41 LT
303	33846.69	44430.11		104+97.50	40.39 LT
304	33898.55	44451.12		104+62.44	83.99 LT
305	33930.08	44433.54		104+26.33	83.99 LT
307	33750.33	44323.37		105+29.68	99.77 RT
308	33743.14	44304.70		105+26.87	119.57 RT
309	33823.26	44273.84		104+41.86	107.51 RT
310	33865.91	44264.38		104+00.00	95.00 RT
311	33878.09	44286.21		104+00.00	70.00 RT
312	33917.12	44279.71		103+64.78	57.33 RT
313	33881.18	44301.03		104+04.52	55.56 RT
315	33921.29	44372.77		104+04.42	26.63LT
316	33994.03	44335.18		103+20.38	26.10 LT
317	33987.23	44333.30		103+25.91	21.56 LT
318	33923.88	44368.68		104+00.17	24.33 LT

General Notes:

- All centerline and offset stationing may not represent the centerline as constructed in the field.
- Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for survey monument descriptions.
- This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with CDOT that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.

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.

QUANTITY OF MONUMENTS TO BE SET

CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE										
ROW			4							
CONTROL										
ALIQUOT CORNER										
PERMANENT EASEMENT										3
PROJECT POINTS										
WITNESS POST (REQUIRED)										

COORDINATE DATUM: Project coordinates are modified Colorado State Plane Central Zone NAD '83/(2007) coordinates. The ground scale factor used to modify the coordinates from state plane to project coordinates is 1.000409431. The resulting project coordinates are truncated by 1,600,000ft in the Northing and 2,700,000ft in the Easting after converting from state plane coordinates to project coordinates, a local site seed point Northing of 1,633,724.203 ft and a local site seed point Easting of 2,744,414.787 were also used in the modification. The CHARN is based on the NAD '83(2007) datum.

Project Coordinates Northing US Survey Feet = (State Plane Coordinate Northing US Survey Feet - 1,633,724.203 \* 1.000409431) + 1,633,724.203 - 1,600,000.

Project Coordinates Easting US Survey Feet = (State Plane Coordinate Easting US Survey Feet - 2,744,414.787 \* 1.000409431) + 2,744,414.787 - 2,700,000.

SURVEYOR STATEMENT (R.O.W. MONUMENTS)

I, Michael L. Bouchard, 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 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 or warranty, either expressed or implied.

PLS No. 24941

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Right of Way Plans Monumentation Sheet			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTRDSE			
CULVERTS (SH 348 - MONTRDSE)			
Project Code:	Last Mod. Date	Subset	Sheet No.
18266	12-13-14	5.02 of 5.02	5.02

**TABULATION OF PERMANENT EASEMENT MONUMENTS TO BE SET**

Point No.	Northing(ft)	Easting(ft)	Description	Station	Offset
500	30307.75	27546.57	CDOT TYPE 6 MONUMENT	507+19.08	46.13 LT
501	30302.57	27537.96	CDOT TYPE 6 MONUMENT	507+19.03	56.18 LT
502	30344.52	27506.99	CDOT TYPE 6 MONUMENT	507+67.17	62.91 LT
503	30359.23	27499.45	CDOT TYPE 6 MONUMENT	507+82.49	63.02 LT
504	30363.56	27508.46	CDOT TYPE 6 MONUMENT	507+82.40	53.02 LT
505	30349.86	27515.48	CDOT TYPE 6 MONUMENT	507+67.96	52.92 LT
507	30278.49	27668.38	CDOT TYPE 6 MONUMENT	506+29.00	39.55 RT
508	30336.75	27630.73	CDOT TYPE 6 MONUMENT	507+00.00	40.82 RT
509	30336.32	27648.87	CDOT TYPE 6 MONUMENT	506+89.25	55.88 RT
510	30286.97	27680.76	CDOT TYPE 6 MONUMENT	506+29.00	54.56 RT

**TABULATION OF TEMPORARY EASEMENT POINTS TO BE STAKED**

Point No.	Northing(ft)	Easting(ft)	Description	Station	Offset
700	30304.26	27549.14		507+15.00	45.72 LT
701	30288.73	27523.32		507+15.00	75.85 LT
702	30333.84	27490.01		507+65.62	82.89 LT
703	30357.85	27477.86		507+90.00	83.03 LT
704	30370.84	27504.90		507+90.00	53.03 LT
706	30275.13	27670.55		506+25.00	39.45 RT
707	30292.09	27695.31		506+25.00	69.46 RT
708	30352.70	27656.15		507+00.00	70.82 RT

XXX

XXX

General Notes:

- All centerline and offset stationing may not represent the centerline as constructed in the field.
- Refer to the M-629-1 Survey Monuments of the Standard Plans dated July, 2012 found in The Colorado Department of Transportation, M & S Standards for survey monument descriptions.
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QUANTITY OF MONUMENTS TO BE SET

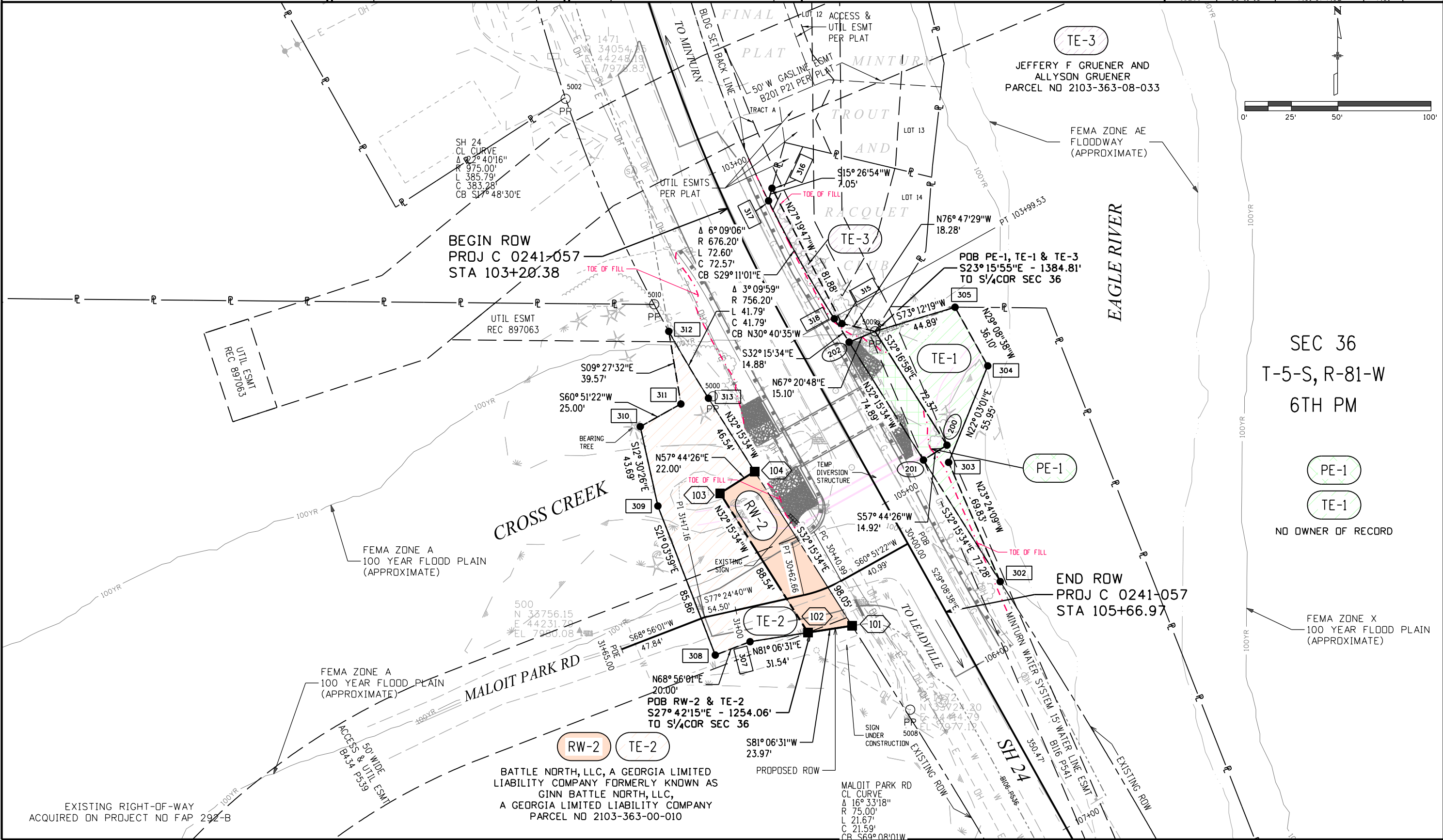
CAP TYPE	MONUMENT TYPE									
	1	1A	2	2A	3	3A	4	5	5(S)	6
REFERENCE										
ROW										
CONTROL										
ALIQUOT CORNER										
PERMANENT EASEMENT										10
PROJECT POINTS										
WITNESS POST (REQUIRED)										

COORDINATE DATUM: Project coordinates are modified Colorado State Plane South Zone NAD '83/(2011) coordinates. The combined elevation/scale factor used to modify the coordinates from state plane to project coordinates is 1.0001987854. To get from Project Coordinates to State Plane Coordinates; Add the false reduction to the Northing or Easting project coordinates, then subtract the seed point North or East coordinates, the divide the difference by the ground scale factor, then add that number back to the seed point North or East coordinates to get the State Plane Coordinates.

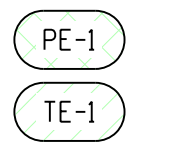
<p style="text-align: center;">SURVEYOR STATEMENT (R.O.W. MONUMENTS)</p> <p>I, <u>Michael L. Bouchard</u>, a professional land surveyor licensed in the State of Colorado, do hereby state to the Colorado Department of Transportation that based upon my knowledge, information and belief, adequate research, calculations and evaluation of 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 or warranty, either expressed or implied.</p> <p>PLS No. 24941</p>	
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Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials
06/11/15	OWNER NAME AND TOTAL OWNERSHIP BOUNDARY CHANGED FOR OWNERSHIP 1	JMK			

Right of Way Plans			
Plan Sheet			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTRÖSE			
CULVERTS (SH 24 - MINTURN)			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
18266	06-11-15	7.01 of 7.02	7.01



SEC 36  
 T-5-S, R-81-W  
 6TH PM



NO OWNER OF RECORD

FEMA ZONE X  
 100 YEAR FLOOD PLAIN  
 (APPROXIMATE)

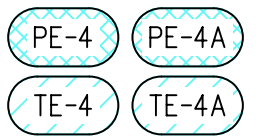
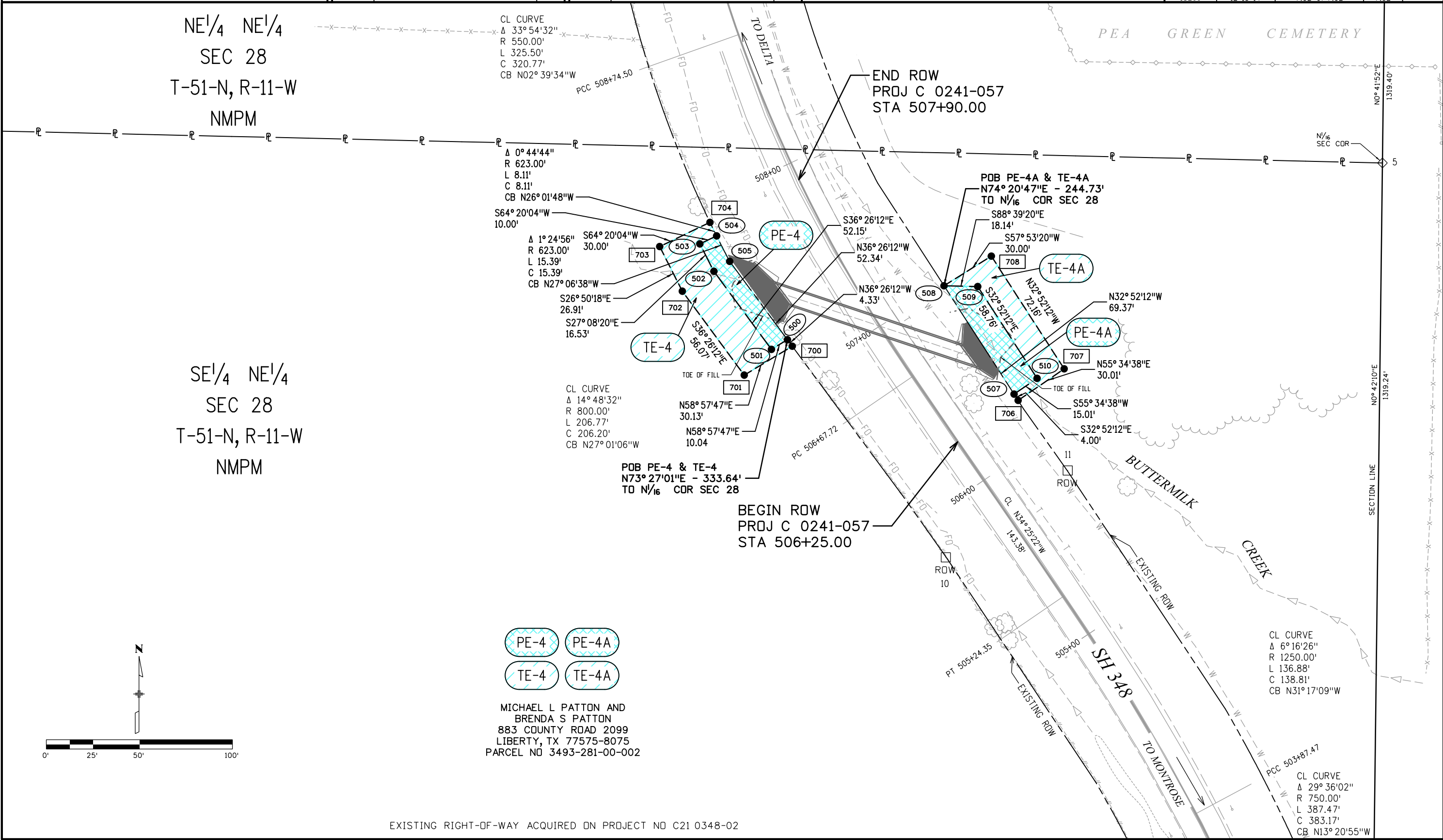
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EXISTING RIGHT-OF-WAY  
 ACQUIRED ON PROJECT NO FAP 292-B

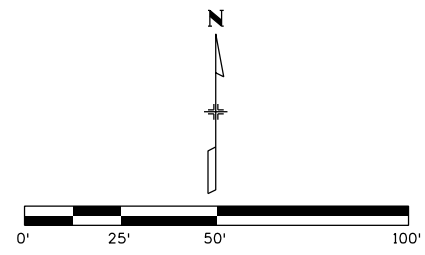
BATTLE NORTH, LLC, A GEORGIA LIMITED LIABILITY COMPANY FORMERLY KNOWN AS GINN BATTLE NORTH, LLC, A GEORGIA LIMITED LIABILITY COMPANY PARCEL NO 2103-363-00-010

Sheet Revisions			Sheet Revisions		
Date	Description	Initials	Date	Description	Initials

Right of Way Plans			
Plan Sheet			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTROSE			
CULVERTS (SH 348 - MONTROSE)			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
18266	12-13-14	7.02 of 7.02	7.02



MICHAEL L PATTON AND  
 BRENDA S PATTON  
 883 COUNTY ROAD 2099  
 LIBERTY, TX 77575-8075  
 PARCEL NO 3493-281-00-002



EXISTING RIGHT-OF-WAY ACQUIRED ON PROJECT NO C21 0348-02

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Sheet Revisions		
Date	Description	Initials
06/11/15	OWNER NAME AND TOTAL OWNERSHIP BOUNDARY CHANGED FOR OWNERSHIP 1 ALSO INVERTED SHADING AND HATCHING FOR ALL OWNERSHIPS	jmk

Sheet Revisions		
Date	Description	Initials

Right of Way Plans			
Ownership Map			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTRORSE			
CULVERTS (SH 24 - MINTURN)			
Project Code:	Last Mod. Date	Subset	Sheet No.
18266	06-11-15	8.01 of 8.02	8.01



SEC 36  
 T-5-S  
 R-81-W

**TE-3**  
 JEFFERY F GRUENER AND ALLYSON GRUENER  
 11309 PEMBROOK CIR  
 BENTONVILLE, AR 72712-9144  
 PARCEL NO 2103-363-08-033

**RW-2 TE-2**  
 BATTLE NORTH, LLC, A GEORGIA LIMITED LIABILITY COMPANY  
 FORMERLY KNOWN AS GINN BATTLE NORTH, LLC,  
 A GEORGIA LIMITED LIABILITY COMPANY  
 10024 COTTONCREEK DR  
 LITTLETON, CO 80130  
 PARCEL NO 2103-363-00-010

**BEGIN ROW**  
 PROJ C 0241-057  
 STA 103+20.38

**END ROW**  
 PROJ C 0241-057  
 STA 105+66.97

**PE-1 TE-1**  
 NO OWNER OF RECORD

**MALOIT PARK RD**  
 CL CURVE  
 Δ 16° 33' 18"  
 R 75.00'  
 L 21.67'  
 CB S69° 08' 01" W  
 CL 21.59'

6/11/2015 2:03:06 PM c:\project\wise\pwz\_working\18266\ROW\_DwnterShip01.dgn

T-5-S, R-81-W, 6TH PM  
 T-6-S, R-81-W, 6TH PM

SEC 1  
 T-6-S  
 R-81-W

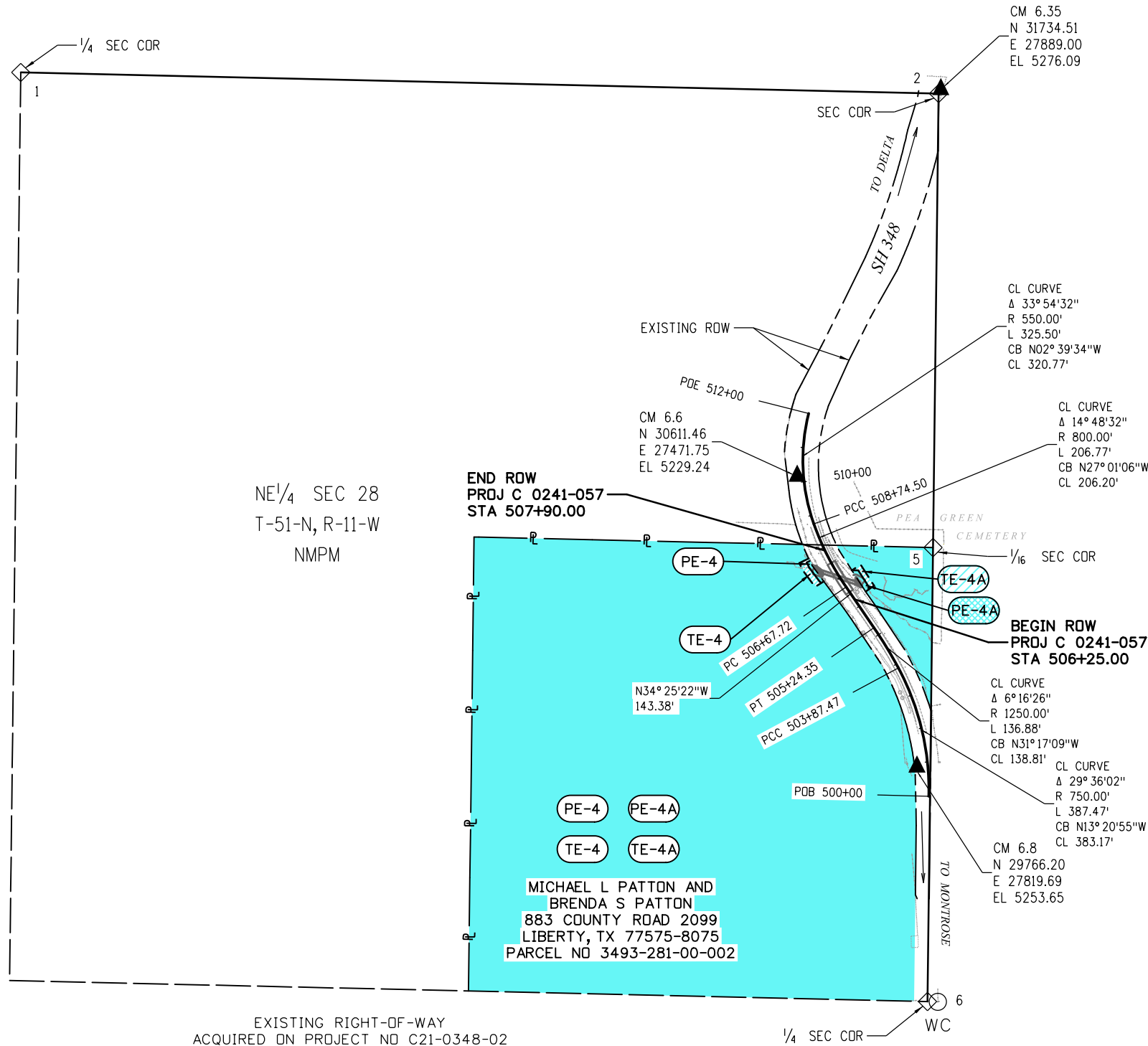
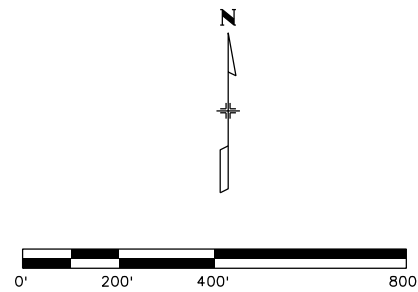
EXISTING RIGHT-OF-WAY  
 ACQUIRED ON PROJECT NO FAP 292-B

1/4 SEC CDR  
 5011 WC

Sheet Revisions		
Date	Description	Initials

Sheet Revisions		
Date	Description	Initials

Right of Way Plans			
Ownership Map			
Project Number: C 0241-057			
Project Location: SH 24/50/348 MINTURN/MONTRDSE			
CULVERTS (SH 348 - MONTRDSE)			
Project Code:	Last Mod. Date:	Subset:	Sheet No.:
18266	12-13-14	8.02 of 8.02	8.02



NE 1/4 SEC 28  
 T-51-N, R-11-W  
 NMPM

NW 1/4 SEC 27  
 T-51-N, R-11-W  
 NMPM

MICHAEL L PATTON AND  
 BRENDA S PATTON  
 883 COUNTY ROAD 2099  
 LIBERTY, TX 77575-8075  
 PARCEL NO 3493-281-00-002

EXISTING RIGHT-OF-WAY  
 ACQUIRED ON PROJECT NO C21-0348-02

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