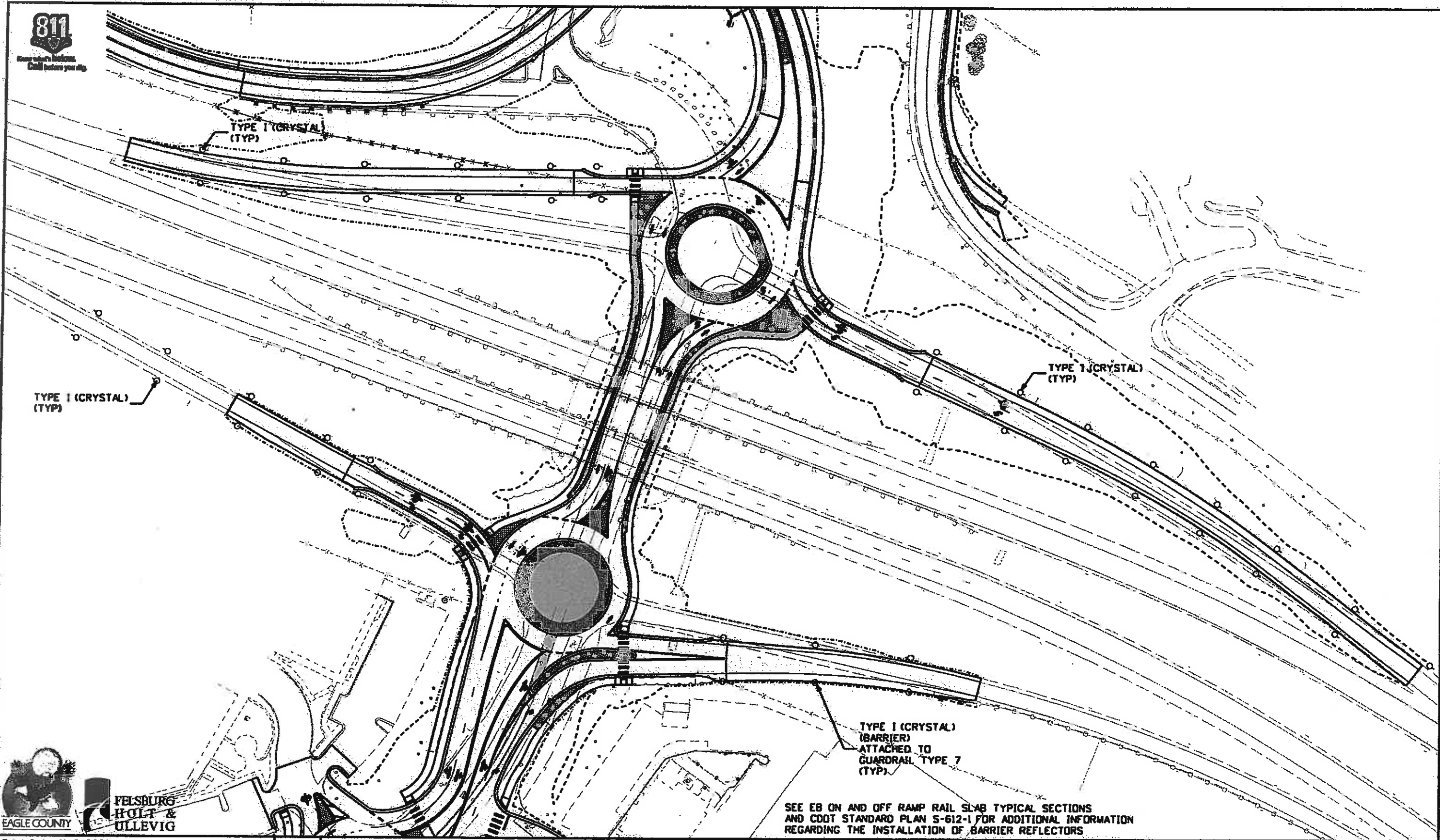


811
 Know what's below.
 Call before you dig.



SEE EB ON AND OFF RAMP RAIL SLAB TYPICAL SECTIONS AND CDOT STANDARD PLAN S-612-1 FOR ADDITIONAL INFORMATION REGARDING THE INSTALLATION OF BARRIER REFLECTORS

Print Date: 11/5/2009
 Drawing File Name: 06193DEL.IN01.dgn
 Horiz. Scale: Unit Information
 Vert. Scale: As Noted
 Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 714 Grand Avenue, P.O. Box 298
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 Phone: 970-328-6385 FAX: 970-328-2368
 Region 3 MLM

As Constructed
 No Revisions: 6-6-2011
 Revised:
 Void:

**EDWARDS INTERCHANGE UPGRADE
 RAMP DELINEATOR PLAN**
 Designer: KMH
 Detailer: KMH
 Sheet Subset: DELIN
 Structure Numbers:
 Subset Sheets: DE-01 of 1

Project No./Code
 ES3 0702-297
 17303
 Sheet Number 269



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GENERAL NOTES

- UTILITY LINES ARE SHOWN FOR INFORMATION ONLY. SEE UTILITY AND DRAINAGE PLANS FOR COMPLETE INFORMATION.
- EXISTING CONDITIONS SHALL BE VERIFIED AT THE SITE PRIOR TO SUBMITTING BIDS. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND AASHTO.
- ALL CONDUIT SHALL BE INSTALLED A MINIMUM OF 30" BELOW GRADE PRIOR TO PAVING. ALL CONDUIT UNDER TRAVELED WAY AND ALL CONDUIT ELBOWS SHALL BE PVC COATED GRC. REMAINING CONDUIT SHALL BE SCHEDULE 40 PVC TYPE CONDUIT.
- CONTRACTOR SHALL COORDINATE ALL CONDUIT RUNS AND CONSTRUCTION SEQUENCE WITH ALL TRADES AND WITH HOLY CROSS POWER (THE UTILITY COMPANY).
- PROVIDE PULL BOXES AND JUNCTION BOXES AS NECESSARY ACCORDING TO THE NATIONAL ELECTRICAL CODE, AASHTO REQUIREMENTS, HOLY CROSS ENERGY, AND OTHER GOVERNING AUTHORITIES. NOT ALL PULL BOXES THAT ARE REQUIRED ARE SHOWN IN PLAN. PROVIDE PULL BOXES AND JUNCTION BOXES, SIZED AS REQUIRED, TO PROVIDE A WEATHER TIGHT RACEWAY SYSTEM.
- REFER TO THE CDOT M&S STANDARD PLANS M-813-1 THROUGH M-813-4 FOR INSTALLATION DETAILS.
- PRIOR TO THE COMMENCEMENT OF REMOVALS ASSOCIATED WITH THIS PROJECT, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND THE SCOPE OF ELECTRICAL REMOVAL WORK. REFER TO REMOVAL PLANS FOR ADDITIONAL INFORMATION.
- COORDINATE WITH ERIC KIMBALL, CDOT REGION 3 OFFICE, (970)-883-7534, FOR ASSISTANCE IN IDENTIFYING PORTIONS OF EXISTING CDOT INTERCONNECT AND FIBER OPTIC CURRENTLY SERVING THIS AREA THAT IS REQUIRED TO REMAIN IN PLACE OR TO BE REMOVED.
- PRIOR TO COMPLETION OF WORK UNDER THIS CONTRACT, CONTRACTOR SHALL COORDINATE THE FOLLOWING:
 - WITH CDOT AND HOLY CROSS ENERGY FOR THE RELOCATION OF THE EXISTING ELECTRICAL SERVICE FEEDING PANEL "L1" THAT IS TO BE RE-USED.
 - WITH EAGLE COUNTY AND HOLY CROSS ENERGY FOR THE ESTABLISHMENT OF THE NEW ELECTRICAL SERVICE THAT IS TO FEED PANEL "L2".
 - WITH EAGLE COUNTY AND HOLY CROSS ENERGY FOR THE RELOCATION OF THE ELECTRICAL SERVICE FEEDING THE "BERRY CREEK" SIGN TO BE LOCATED ON MILLER RANCH ROAD.

DETAIL NOTES (ALL PLAN SHEETS)

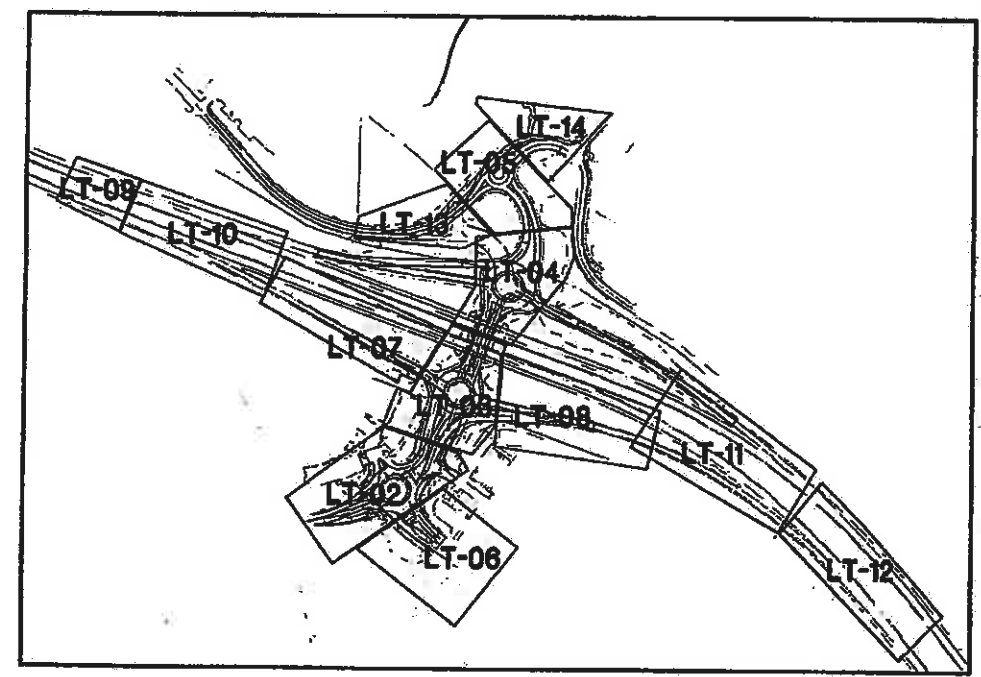
- PROVIDE AND INSTALL 2" GALVANIZED RIGID CONDUIT AT A MINIMUM DEPTH OF 30" BELOW GRADE FOR FUTURE USE. CAP AND STAKE CONDUIT AT BOTH ENDS.
- EXISTING HOLY CROSS TRANSFORMER, COORDINATE WITH HOLY CROSS ENERGY FOR ROUTING AND ACCESS TO THIS TRANSFORMER.
- PROVIDE AND INSTALL CONDUIT, CONDUCTORS AND PULL BOX FOR FUTURE CONNECTION TO PEDESTRIAN LIGHTING WHICH IS BEING ADDED IN A SEPARATE CONTRACT. CAP AND STAKE, REFER TO FEEDER SCHEDULE FOR CONDUCTOR SIZES.
- UNDER-BRIDGE LIGHTING AND CONDUITS ARE EXISTING TO REMAIN. RE-CIRCUIT AS SHOWN UTILIZING EXISTING CONDUIT THROUGH BRIDGE. FIELD VERIFY LOCATIONS AND ROUTING PRIOR TO COMMENCEMENT OF WORK.
- FIXTURE SUBSCRIPT NUMBER INDICATES THE CIRCUIT TO CONNECT TO. BRING 240V, 1Ø TO THE BASE OF EACH POLE AND ALTERNATE WHICH CIRCUIT IS CONNECTED AS SHOWN. TYPICAL FOR ALL LIGHT FIXTURES.
- NO NEW ELECTRICAL WORK THIS SHEET.
- EXISTING POLE MOUNTED LUMINAIRE TO REMAIN. MAINTAIN EXISTING CIRCUIT CONTINUITY. RE-CIRCUIT AS INDICATED.
- EXTEND EXISTING CIRCUIT FOR BERRY CREEK SIGN FROM PREVIOUS LOCATION, APPROXIMATELY 285 FEET TO THE NEW LOCATION AND PROVIDE 120V CONNECTION FOR THE ILLUMINATED SIGN.
- PRIOR TO EXCAVATION, FIELD VERIFY RAMP LIGHTING FOR LOCATIONS OF EXISTING LUMINAIRES, PULL BOXES AND DIRECT BURIED CONDUCTORS. PROVIDE A NEW PULL BOX AND ROUTE NEW CONDUIT AND CONDUCTORS FROM NEW LIGHTING CONTROL CENTER TO PULL BOX. INTERCEPT EXISTING DIRECT BURIED CONDUCTOR AND SPLICE NEW CONDUCTORS TO REMAINING EXISTING DIRECT BURIED CONDUCTORS IN PULL BOX. REMOVE ABANDONED DIRECT BURIED CONDUCTOR BACK TO SOURCE AND RE-CIRCUIT AS INDICATED. SIZE OF NEW CONDUCTORS TO MATCH SIZE OF EXISTING DIRECT BURIED CONDUCTORS.
- EXISTING UNDERGROUND CONDUCTOR SERVING RAMP/GORE LIGHTING TO REMAIN, NO CHANGE.
- PROVIDE A NEW TYPED CIRCUIT DIRECTORY FOR PANEL L1 WITH ACTUAL CIRCUIT ASSIGNMENTS FOR RAMP LIGHTING.
- FIELD VERIFY LOCATIONS OF EXISTING TRANSFORMER #15979 AND METER #26185. RE-USE EXISTING METER AND RELOCATE AS NECESSARY. PROVIDE NEW CONDUIT AND CONDUCTORS FROM METER TO NEW LIGHTING CONTROL CENTER FOR PANEL "L1". COORDINATE WITH HOLY CROSS ENERGY FOR NEW SERVICE INSTALLATION REQUIREMENTS, METER LOCATION AND ROUTING OF CONDUIT/CONDUCTORS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE WORK.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ELECTRICAL CONDUCTORS AND CONDUIT TO TRANSFORMER AS INDICATED ON THE PLANS, AND HOLY CROSS ENERGY SHALL MAKE FINAL CONNECTIONS TO TRANSFORMER. COORDINATE WITH HOLY CROSS ENERGY.

FEEDER SCHEDULE

- | | |
|--|---|
| 1 NEW (3 #8 CU & 1 #8 CU GND) 2" C. | 9 NEW [(3 #8 CU & 1 #8 CU GND) & (4 #10 CU)] 2" C. |
| 2 NEW (3 #8 CU & 1 #8 CU GND) 2" C. | 10 NEW (2 #10 & 1 #10 GND) 1" C. |
| 3 NEW (3 #8 CU & 1 #8 CU GND) 2" C. | 11 NEW [(3 #8 CU & 1 #8 CU GND) & (3 #10 CU & 1 #10 CU GND)] 2" C. |
| 4 NEW [(3 #8 CU & 1 #8 CU GND) & (CONDUCTORS TO MATCH EXISTING DIRECT BURIED CABLE)] 2" C. | 12 NEW (2 #10 CU & 1 #10 CU GND) 2" C. |
| 5 (NEW CONDUCTORS TO MATCH EXISTING DIRECT BURIED CABLE) 2" C. | 13 NEW (4 #10 CU & 1 #10 CU GND) 1" C. |
| 6 (EXISTING DIRECT BURIED CABLE TO REMAIN) | 14 NEW [(3 #8 CU & 1 #8 CU GND) & (3 #8 CU & 1 #8 CU GND) & (4 #10 CU)] 2" C. |
| 7 NEW [(3 #8 CU & 1 #8 CU GND) & (2 #10 & 1 #10 GND)] 2" C. | 15 NEW (3 #8 CU) 1" C. |
| 8 NEW (3 #8 CU & 1 #8 CU GND) 2" C. | |

LEGEND

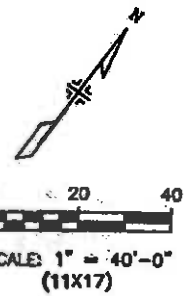
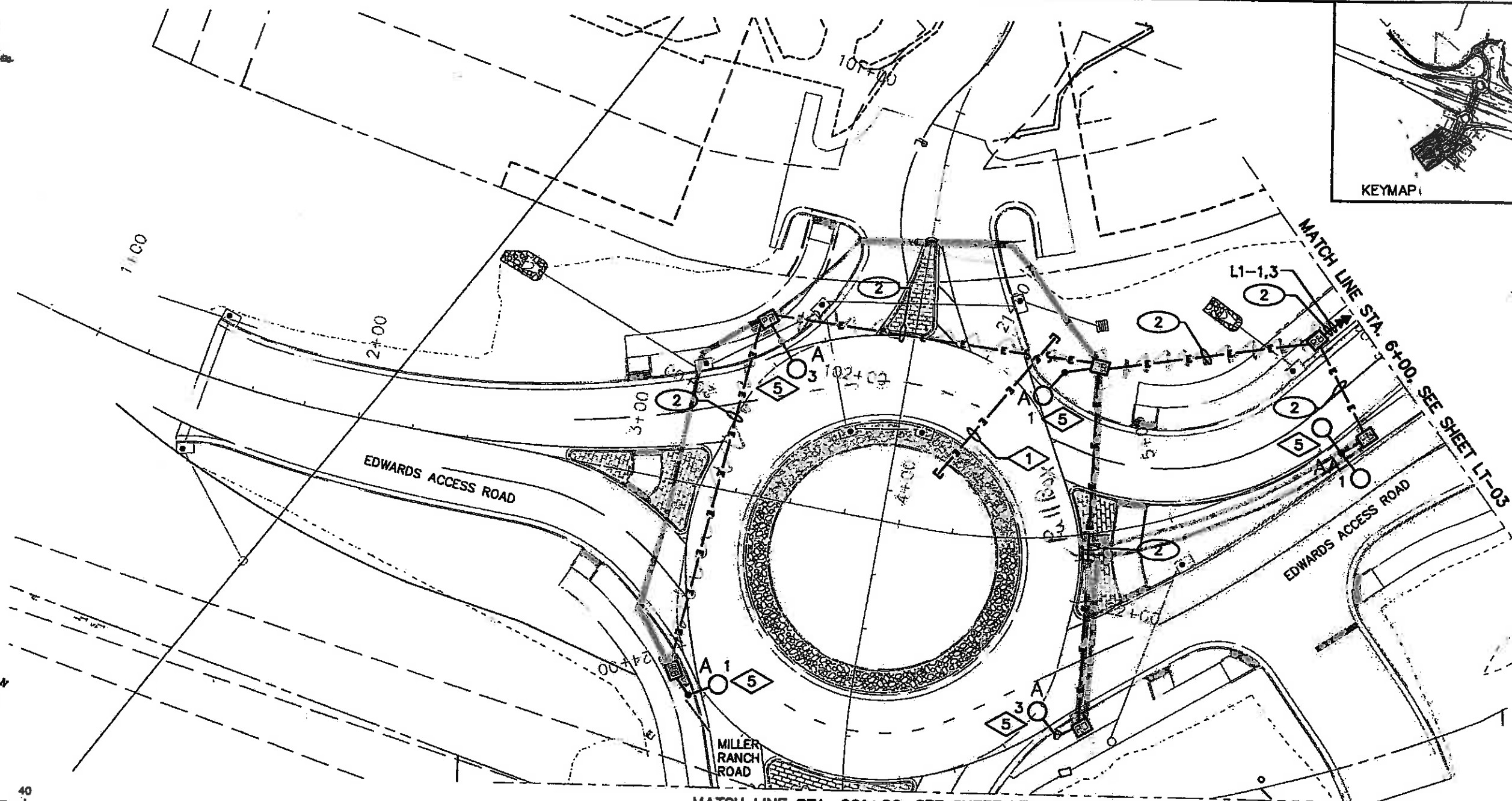
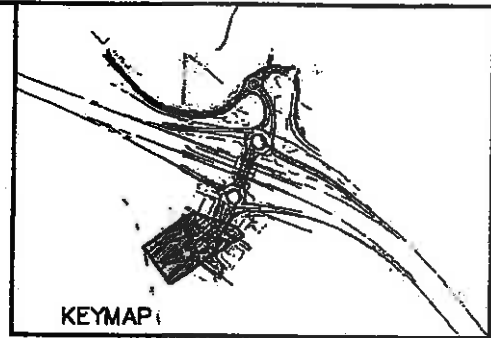
	New Light Standard With Fixture Designation		Self Contained Utility Meter
	Existing Light Standard To Remain		Fused Disconnect Switch
	New LED Sidewalk Light		Panelboard (Diagrammatic)
	Existing Pier Mounted Luminaire		Feeder Size Callout
	New Decorative Pole Mounted Pedestrian Luminaire With Fixture Designation		Detail Note Designation
	Electric Pull Box		Detail Reference Designation
	Proposed Utility Company Pad Mounted transformer, 120/240V, 1Ø, 3W (Typical U.N.O.)		Right of Way Minimum
	Weatherproof Ground Fault Circuit Interrupter 20 Amp Duplex Receptacle		Polyvinyl Chloride Conduit Diameter
	Ground Rod		Unless Noted Otherwise
	New Panel Board in Lighting Control Center		Not In Contract
	New Circuit Run (Bold Line Weight)		Relocated
	Existing Circuit Run (Light Line Weight)		
	Home Run - Number of Arrows indicates Number of Circuits		



KEY MAP
NOT TO SCALE



Print Date: 11/4/2009	Sheet Revisions		Colorado Department of Transportation	As Constructed	EDWARDS INTERCHANGE UPGRADE I-70 G		Project No./Code
Drawing File Name: PLAN SET I LTD1-18 CDOT	Date:	Comments:	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368	No Revisions: 6-6-2011	ELECTRICAL LEGEND, NOTES, SCHEDULES AND KEY MAP		ES3 0702-297
Horiz. Scale: As Noted Vert. Scale: As Noted			Region 3	Revised:	Designer: ALF	Structure Numbers	17303
Unit Information				Void:	Detailer: ALF	Subst Sheets: LT-01 OF 18	Sheet Number 270



Print Date:	11/4/2009
Drawing File Name:	PLAN SET LT01-18 CDOT
Horiz. Scale:	1" = 40'-0" (11x17)
Vert. Scale:	As Noted
Unit Information:	

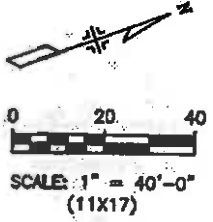
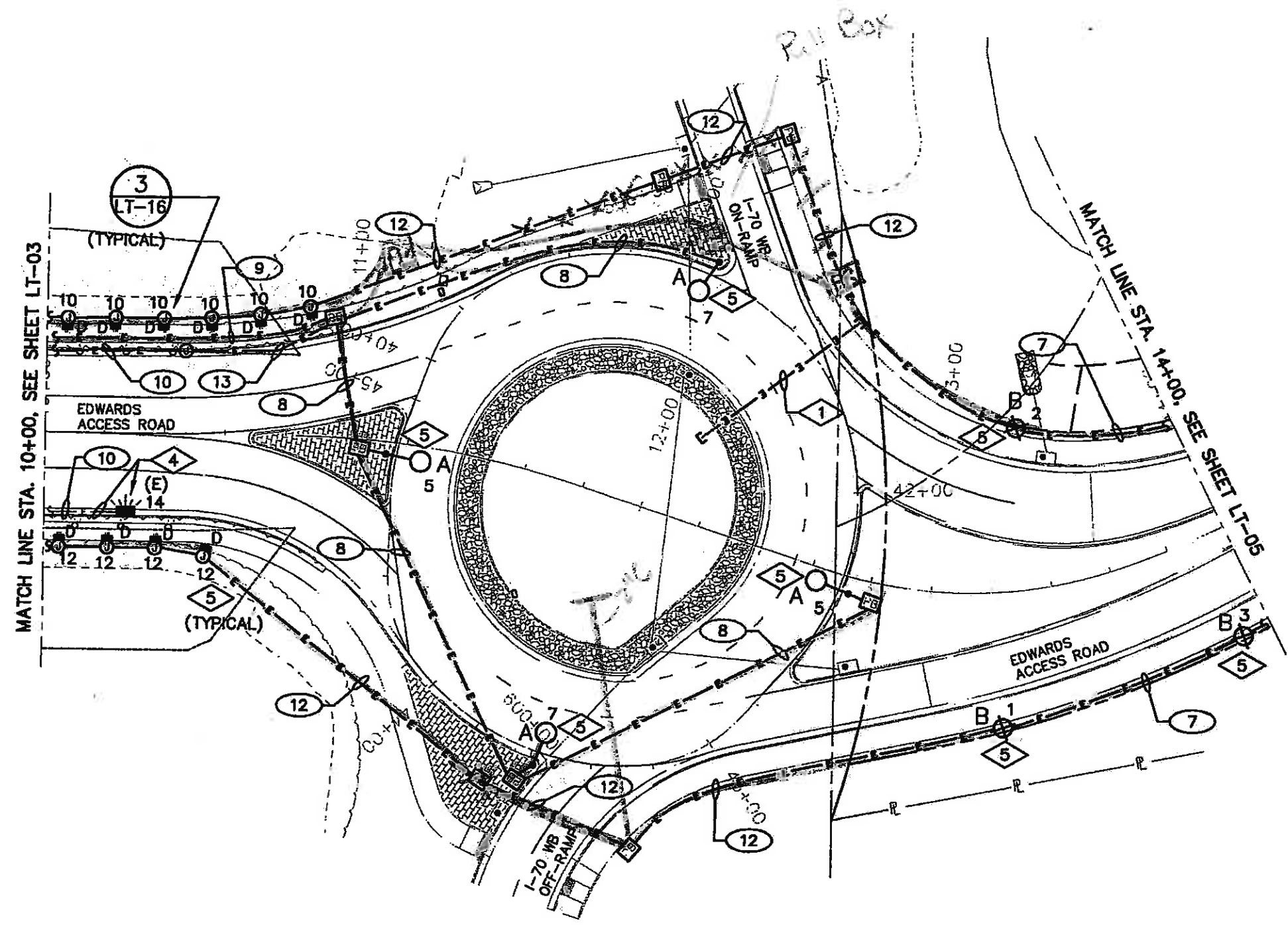
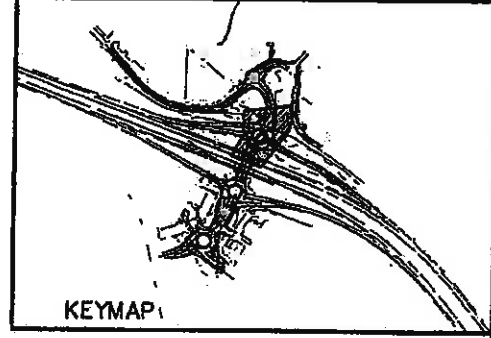
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Date:	Comments	Init.

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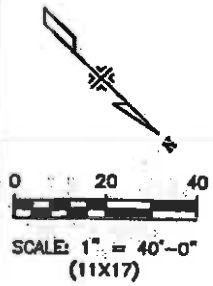
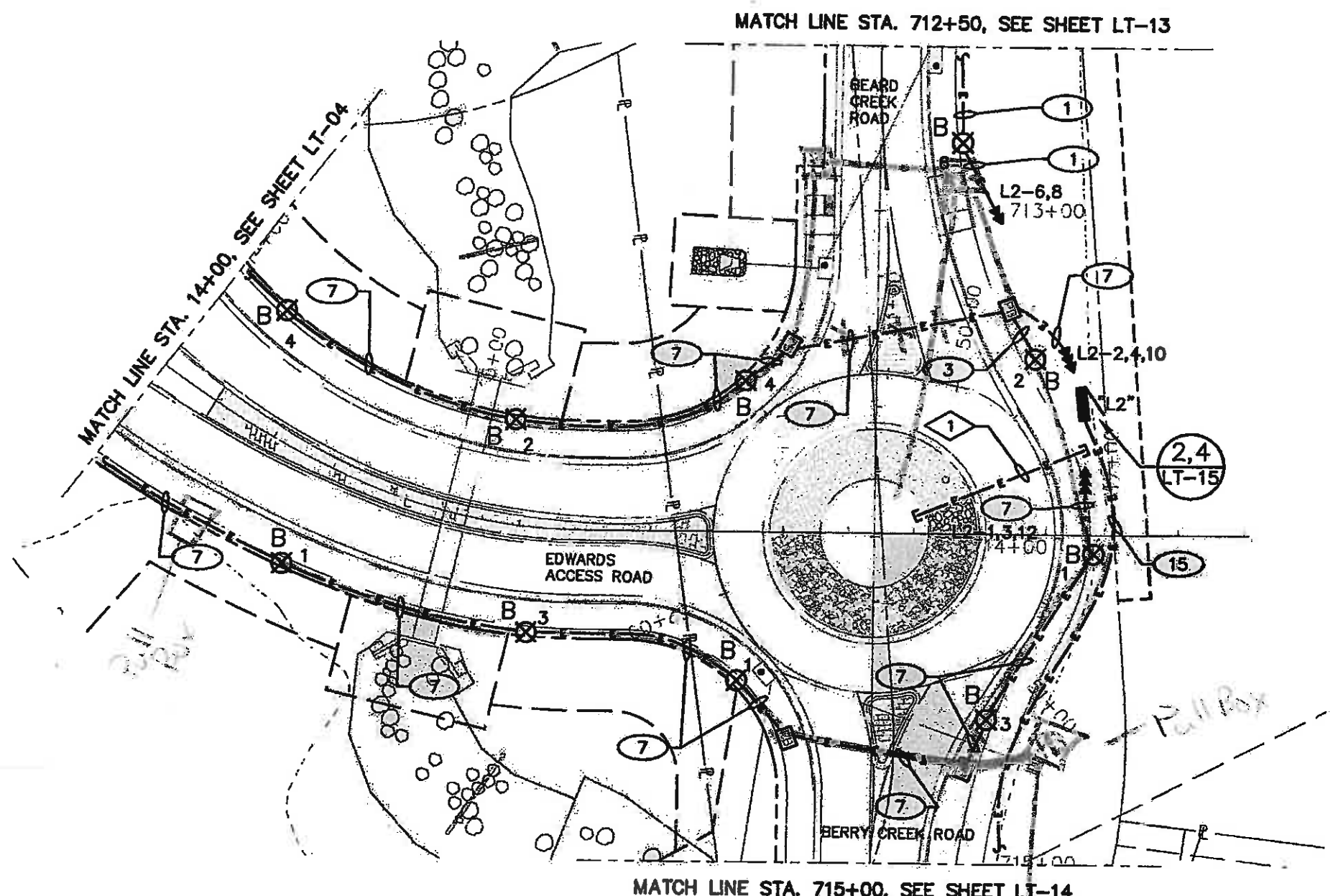
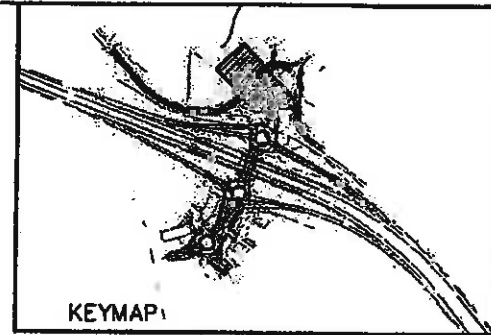
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 No Revisions:
 Revised: 6-6-2011
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EDWARDS INTERCHANGE UPGRADE I-70 G
 EDWARDS ACCESS ROAD
 STA. 1+00 TO STA. 6+00
 Designer: ALF Structure
 Detailer: ALF Numbers
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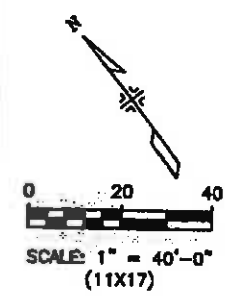
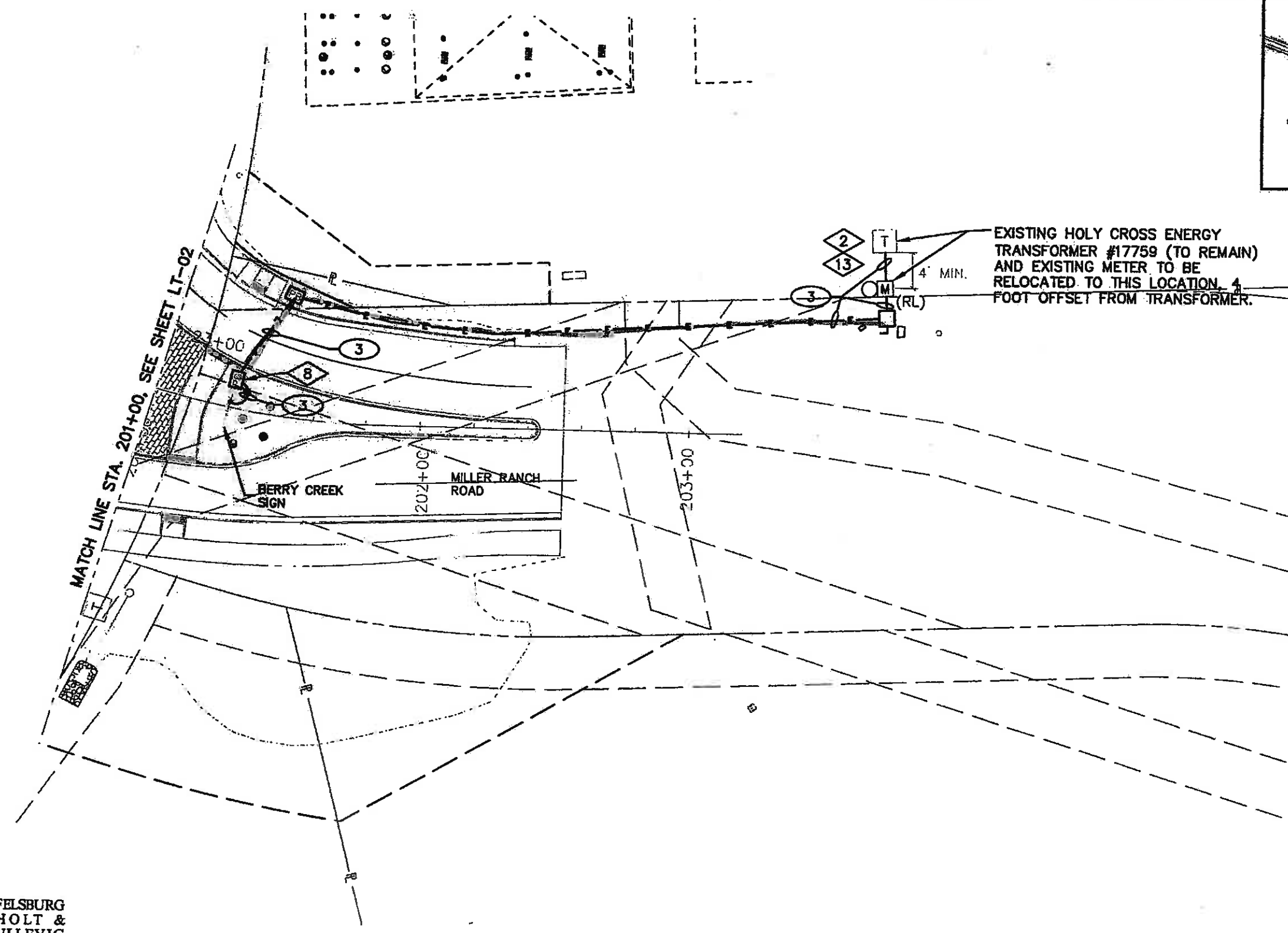
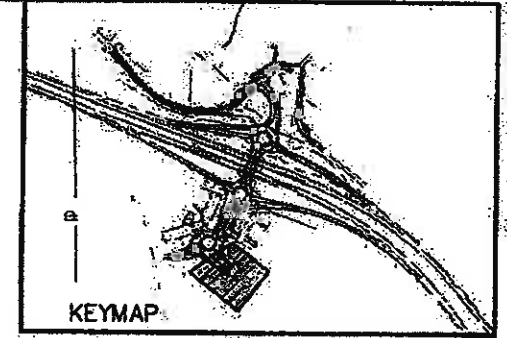
Project No./Code
 ES3 0702-297
 17303
 Sheet Number 271X



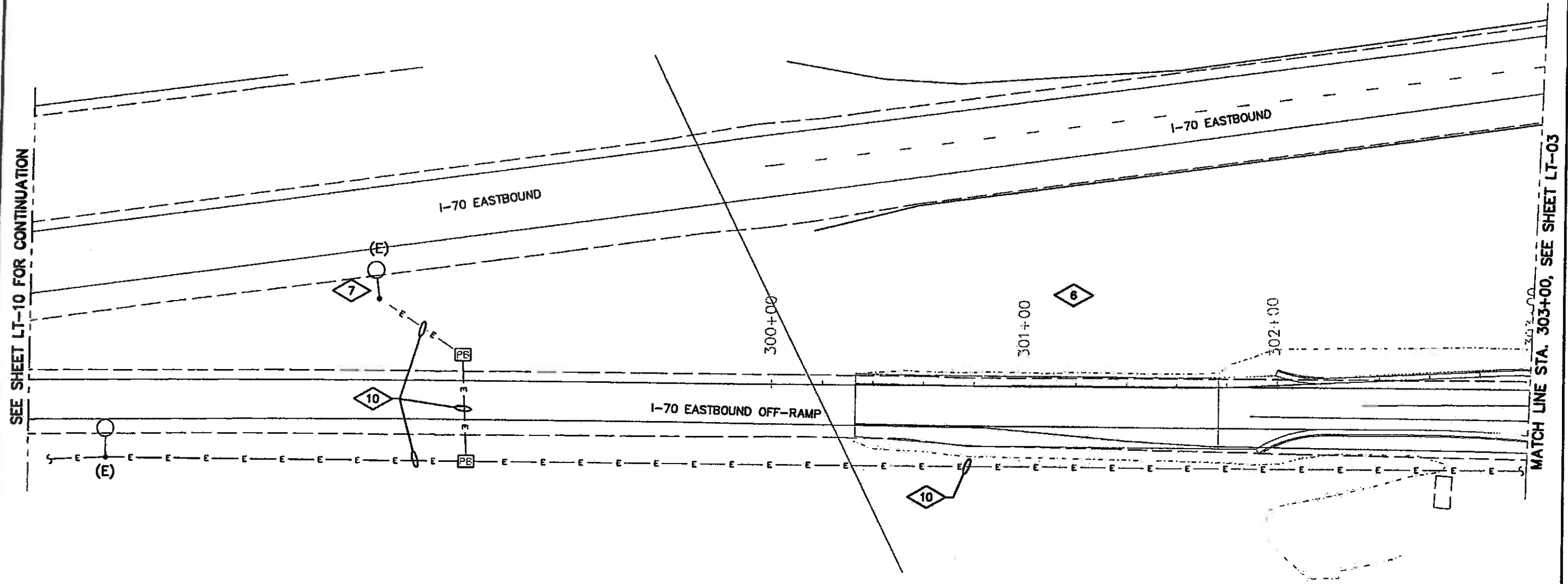
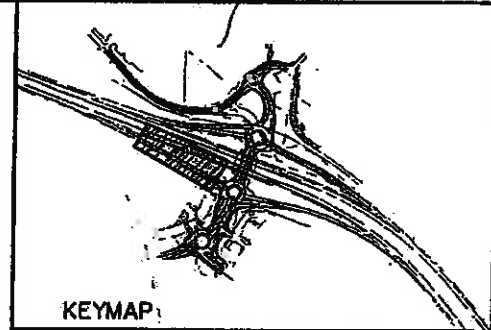
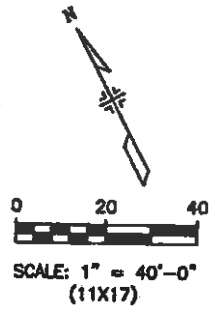
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Drawing File Name: PLAN SET LT01-18 CDOT	Date:	Comments				
Unit Information	Unit Information		714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368		Sheet Subset: ELECTRICAL	Subset Sheets: LT-04 OF 18
Horiz. Scale: 1" = 40'-0" (11x17)	Vert. Scale: As Noted		MLM			Sheet Number 273X



Print Date: 11/4/2009	Sheet Revisions		Colorado Department of Transportation	As Constructed	EDWARDS INTERCHANGE UPGRADE I-70 G		Project No./Code
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					Subset Sheets: LT-05 OF 18		



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Horiz. Scale: 1" = 40'-0" (11x17) Vert. Scale: As Noted				Revised: 6-6-2011	Detailer: ALF		17303
Unif. Information				Void:	Sheet Subset: ELECTRICAL	Subset Sheets: LT-06 OF 18	Sheet Number 275X



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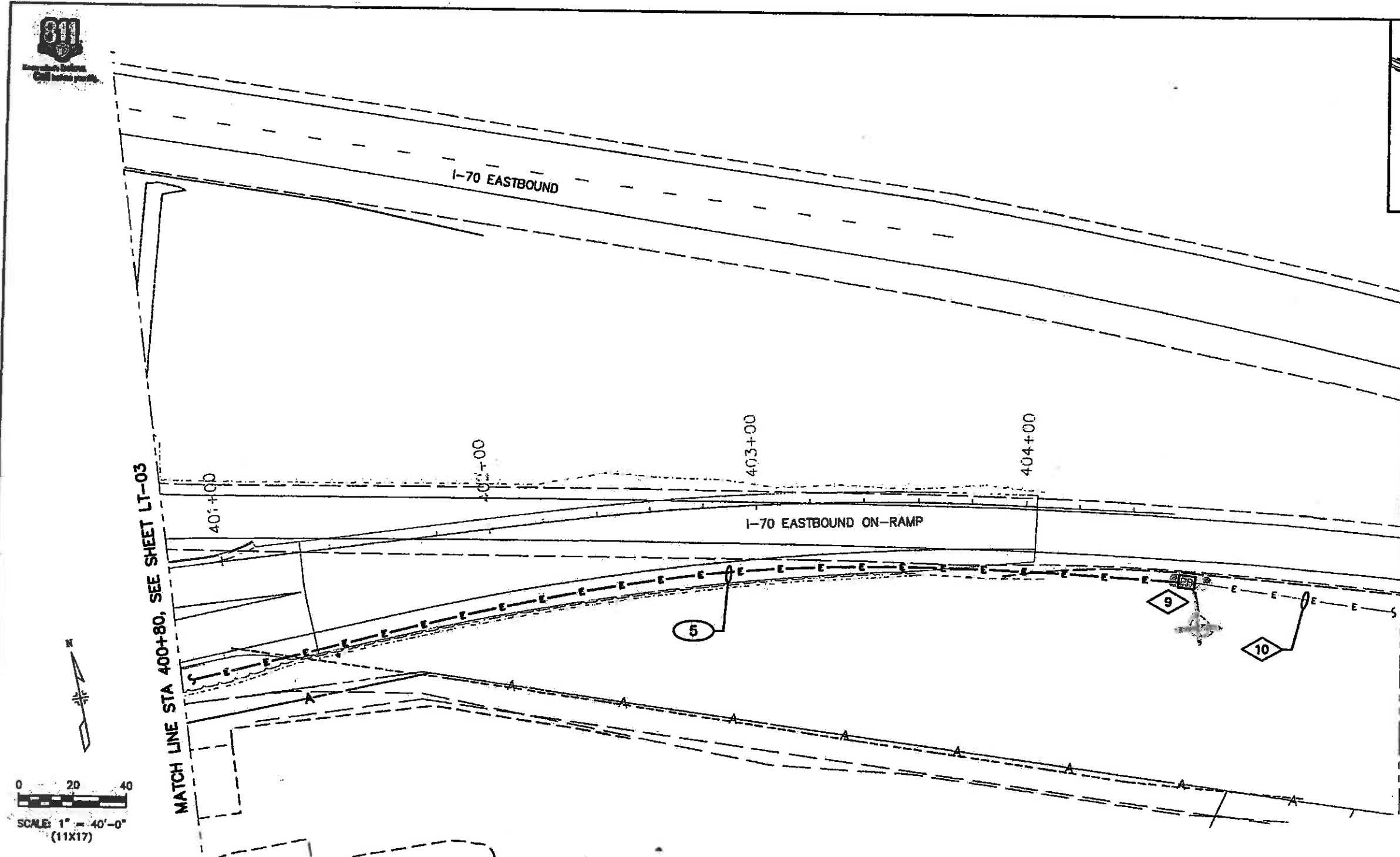
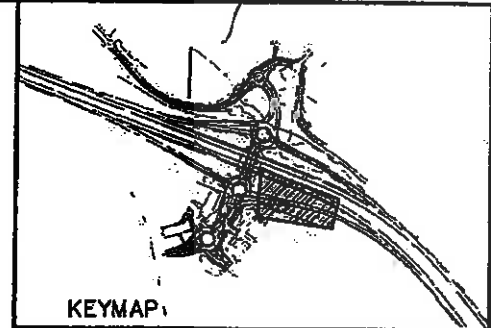
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Sheet Revisions		
Date:	Comments	Init.

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Region 3 MLM

As Constructed	EDWARDS INTERCHANGE UPGRADE I-70 G	
No Revisions: 6-6-2011	I-70 EASTBOUND OFF RAMP	
Revised:	WEST OF STA. 303+00	
Vold:	Designer:	ALF
	Detailer:	ALF
	Structure Numbers	
	Sheet Subset:	ELECTRICAL
	Subset Sheets:	LT-07 OF 18

Project No./Code	ES3 0702-297
Sheet Number	276



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Print Date: 11/4/2009
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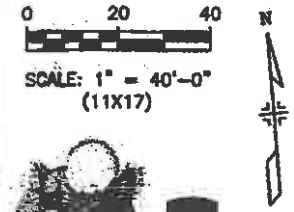
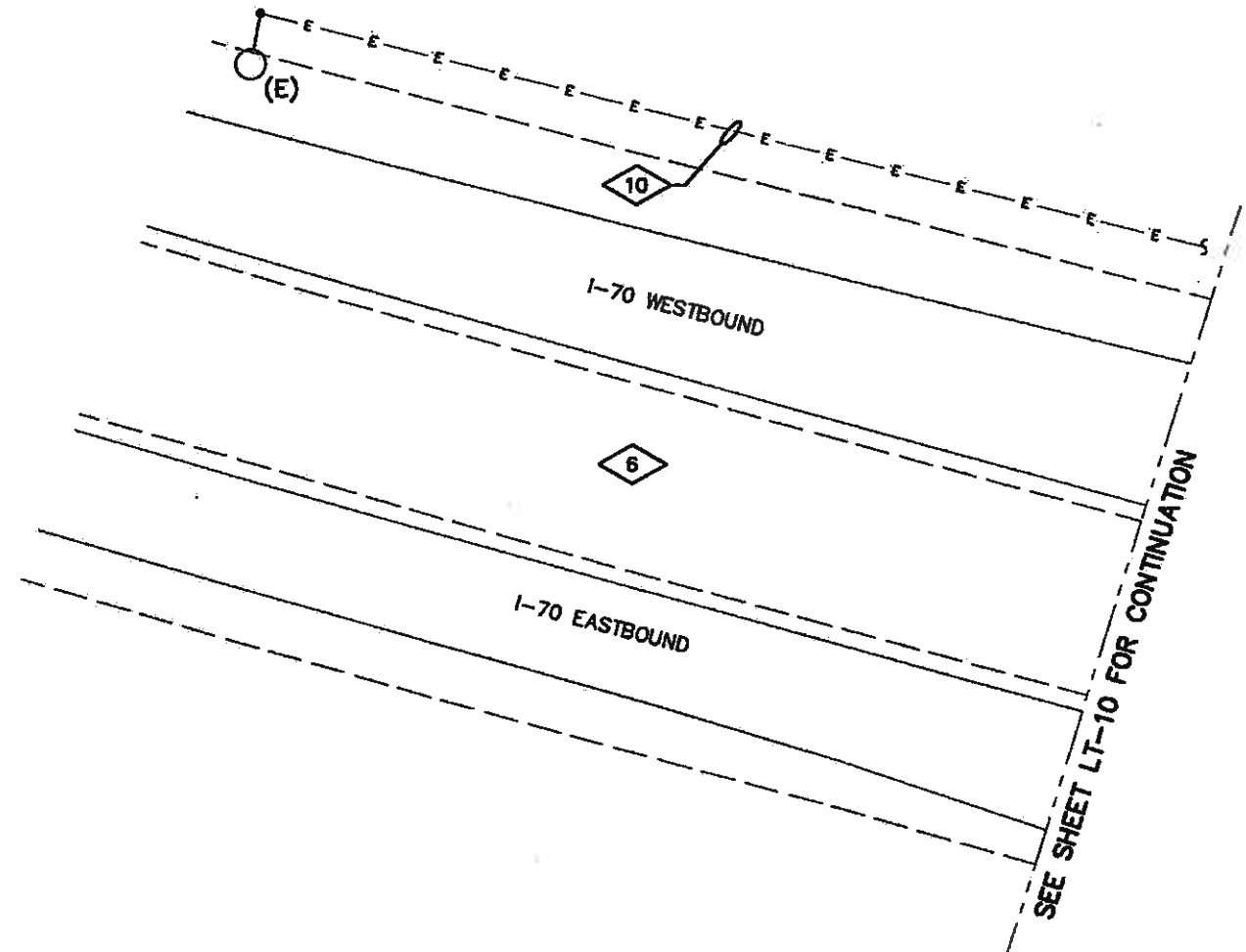
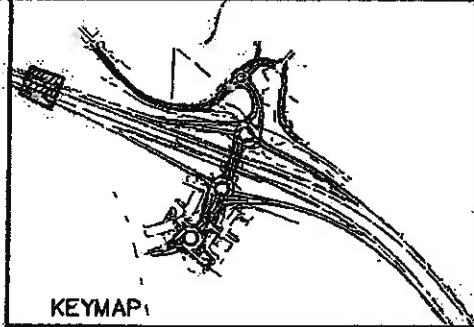
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EDWARDS INTERCHANGE UPGRADE I-70 G
 I-70 EASTBOUND ON RAMP
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 Detailer: ALF
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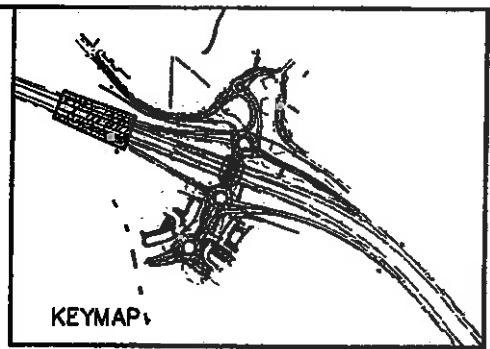
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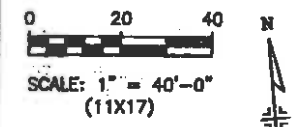
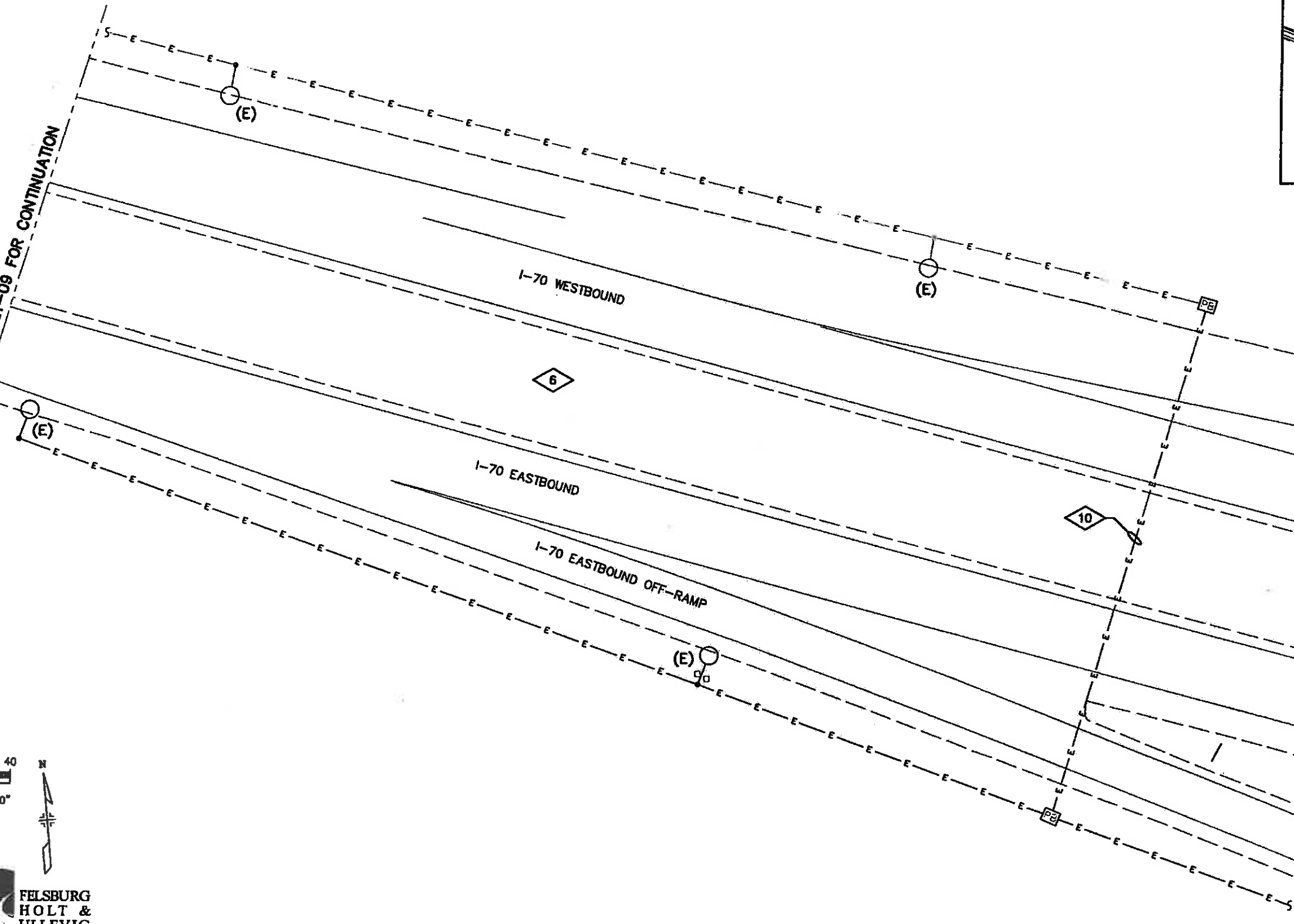
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Drawing File Name: PLAN SET I LT01-18 C00T	Date:	Comments:		Init.:	No Revisions: 6-6-2011	I-70 WESTBOUND ON RAMP STA. 500+00 TO STA. 505+80	
Unit Information				Revised:	Designer: ALF	Structure Numbers	17303
				Void:	Detailer: ALF	Subset Sheets: LT-09 OF 18	Sheet Number 278

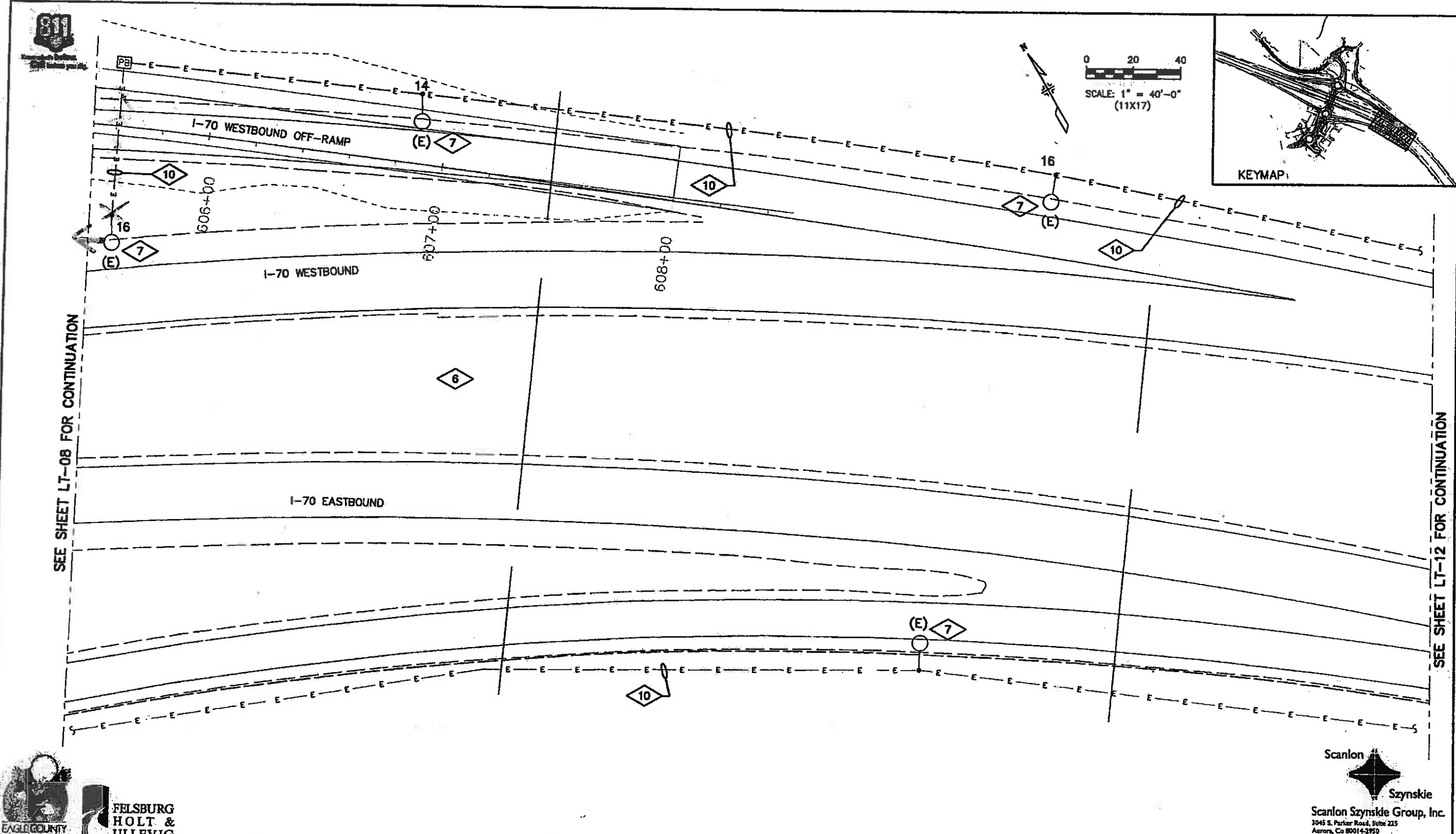


SEE SHEET LT-09 FOR CONTINUATION

SEE SHEET LT-07 FOR CONTINUATION



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Unit Information				Revised:	Detailer: ALF		17303
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Print Date:	11/4/2009
Drawing File Name:	PLAN SET I LTD1-18 CDOT
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Unit Information:	

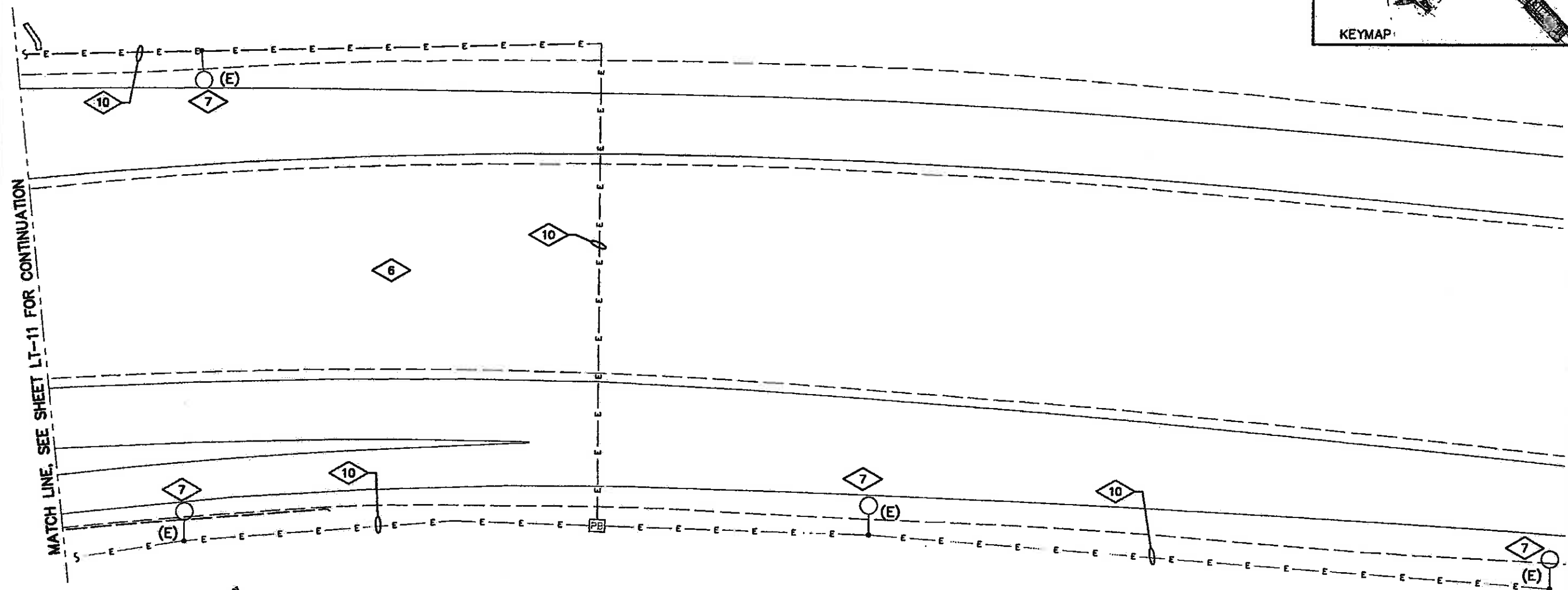
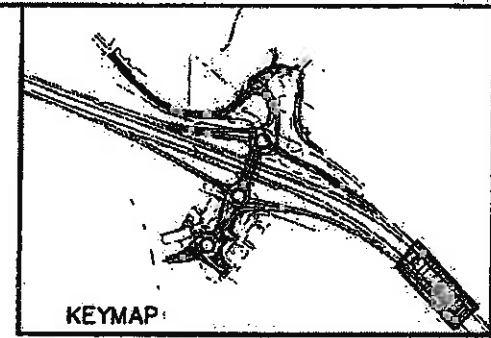
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Date:	Comments:	Init.:

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No Revisions:
Revised: 6-6-2011
Void:

EDWARDS INTERCHANGE UPGRADE I-70 G I-70 WEST BOUND OFF RAMP STA. 600+50 TO STA. 605+00	
Designer: ALF	Structure Numbers
Detailer: ALF	
Sheet Subset: ELECTRICAL	Subset Sheets: LT-11 OF 18

Project No./Code	ES3 0702-297
	17303
Sheet Number	280X

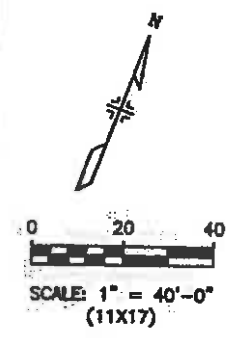
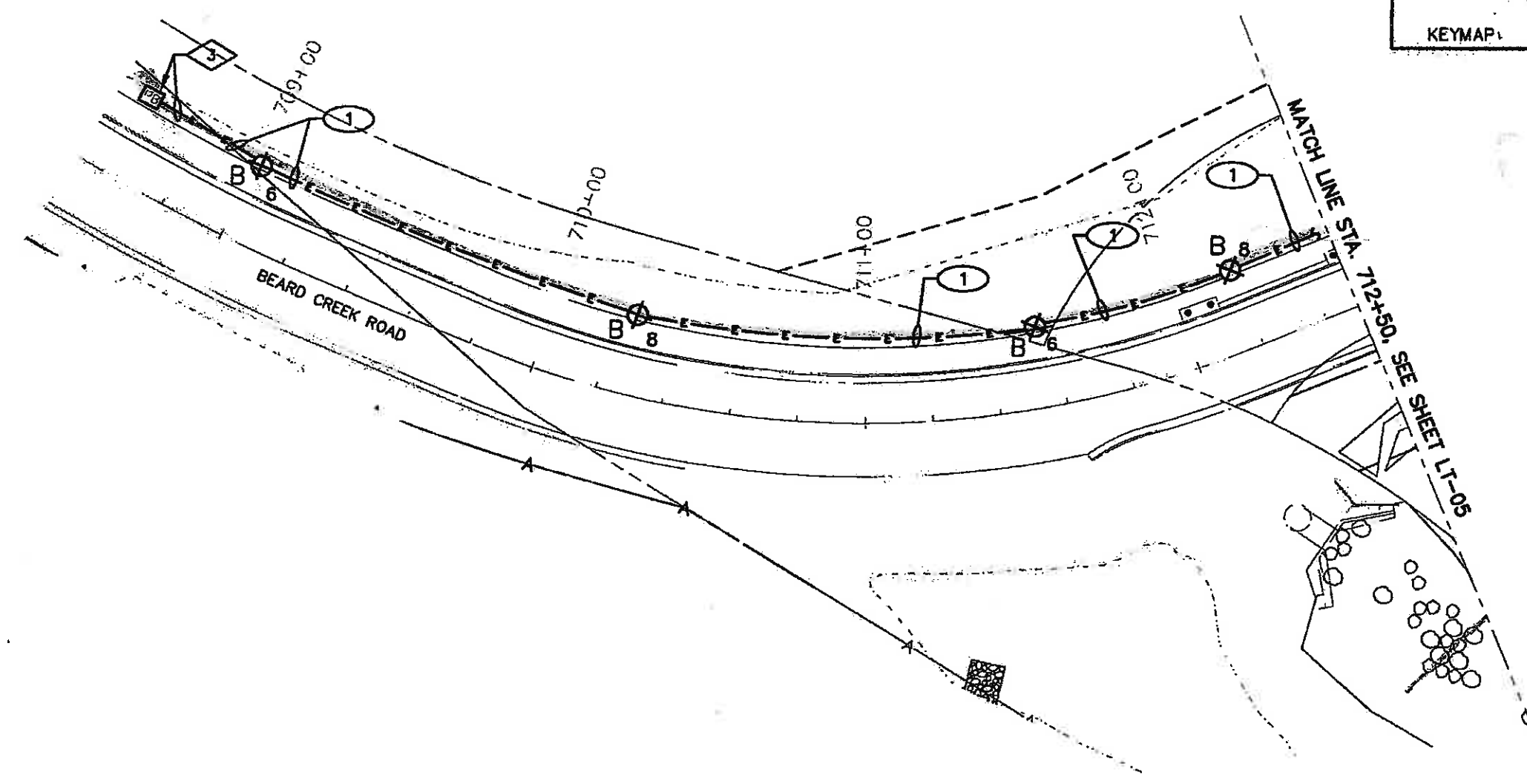
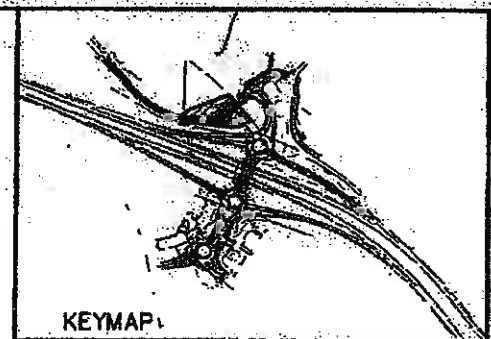


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0 20 40
SCALE: 1" = 40'-0"
(11x17)

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Print Date: 11/4/2009	Sheet Revisions		Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed	EDWARDS INTERCHANGE UPGRADE I-70 G I-70 WEST BOUND OFF RAMP STA. 605+00 TO STA. 608+00	Project No./Code
Drawing File Name: PLAN SET I LTD1-18 CDOT	Date:	Comments:		Init.:		No Revisions: 6-6-2011
Horiz. Scale: 1" = 40'-0" (11x17) Vert. Scale: As Noted				Revised:	Designer: ALF	Structure Numbers
Unit Information				Void:	Detailer: ALF	17303
					Sheet Subset: ELECTRICAL	Subset Sheets: LT-12 OF 18
						Sheet Number 281



Print Date:	11/4/2009
Drawing File Name:	PLAN SET I-LT01-18 CDOT
Horiz. Scale:	1" = 40'-0" (11x17)
Vert. Scale:	As Noted
Unit Information:	

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

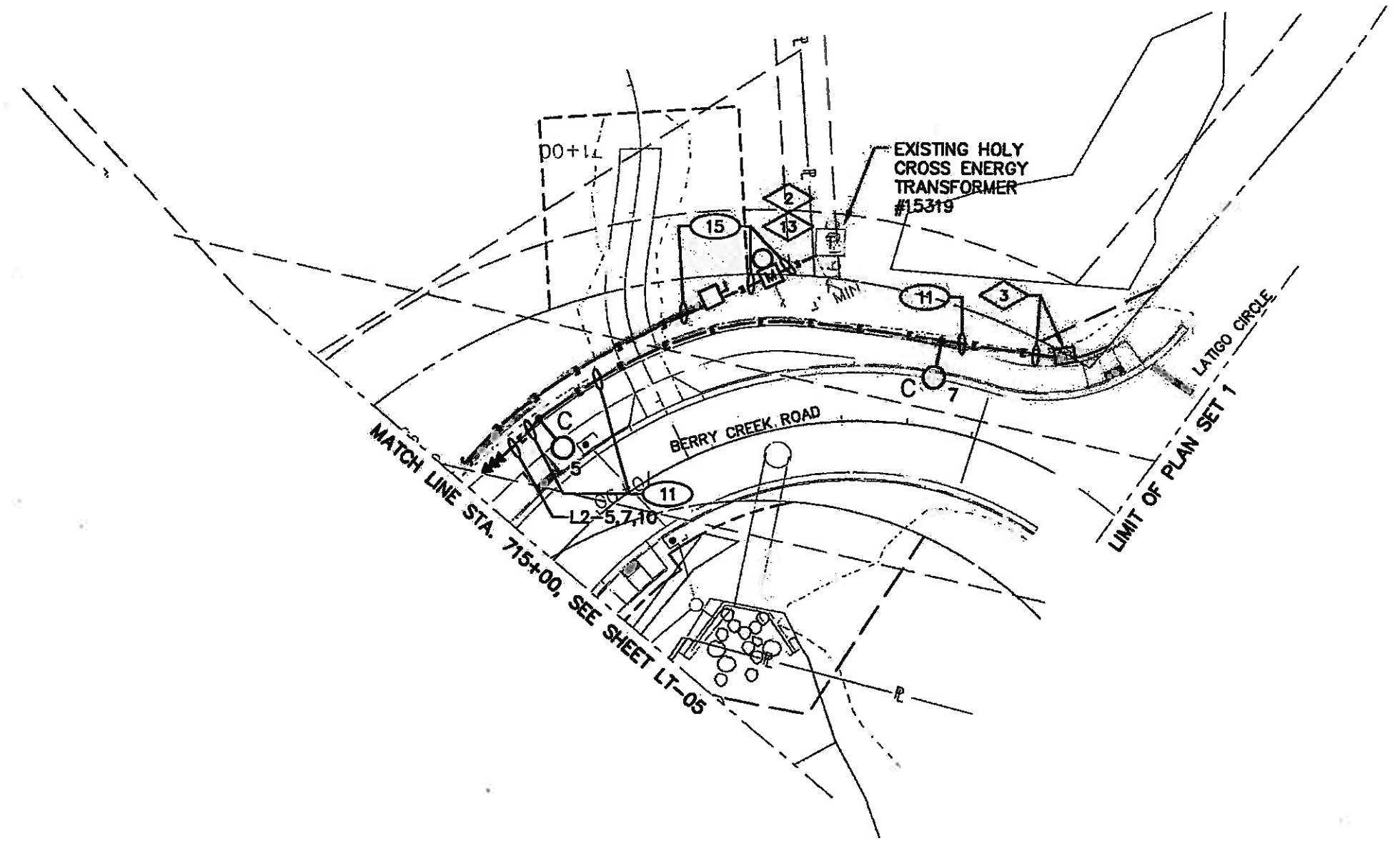
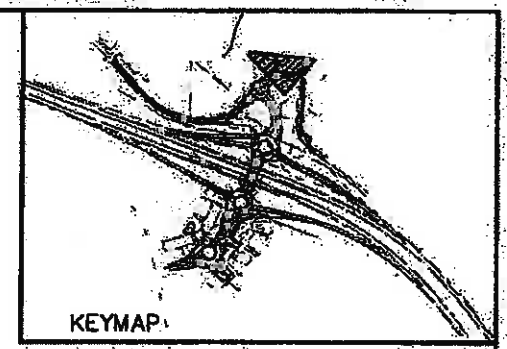
714 Grand Avenue, P.O. Box 298
Eagle, CO 81631
Phone: 970-328-6385 FAX: 970-328-2368

Region 3 MLM

As Constructed
No Revisions:
Revised: 6-6-2011
Void:

EDWARDS INTERCHANGE UPGRADE I-70 G	
BEARD CREEK ROAD	
STA. 707+69 TO STA. 712+50	
Designer: ALF	Structure Numbers
Detailer: ALF	Structure Numbers
Sheet Subset: ELECTRICAL	Subst Sheets: LT-13 OF 18

Project No./Code	ES3 0702-287
Sheet Number	17303
Sheet Number	282X




0 20 40
SCALE: 1" = 40'-0"
(11x17)



Scanlon Szynskie Group, Inc.
3045 S. Parker Road, Suite 225
Aurora, Co 80014-2950
303.696.2802 fax 303.696.0012
www.szgroupinc.com 06014.00 / 06016.01

Print Date:	11/4/2009
Drawing File Name:	PLAN SET I LT01-18 CDDT
Horiz. Scale:	1" = 40'-0" (11x17)
Vert. Scale:	As Noted
Unit Information	

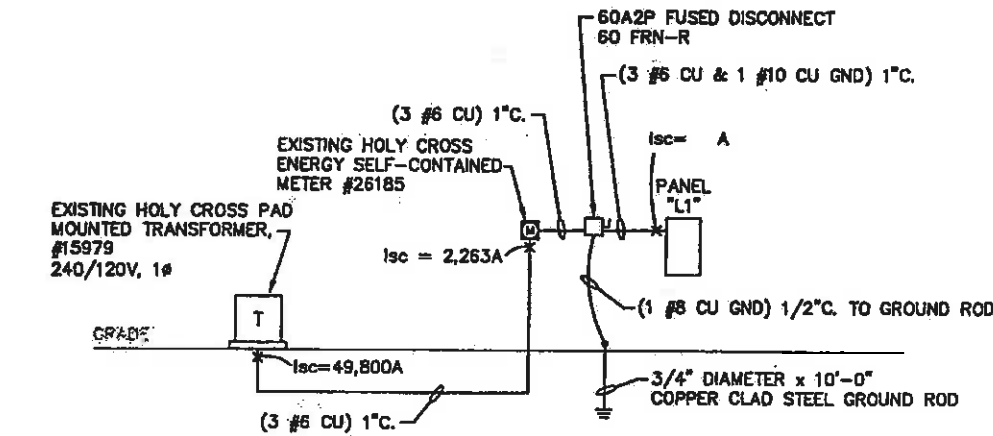
Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 714 Grand Avenue, P.O. Box 298
 Eagle, CO 81631
 Phone: 970-328-6385 FAX: 970-328-2368
 Region 3 MLM

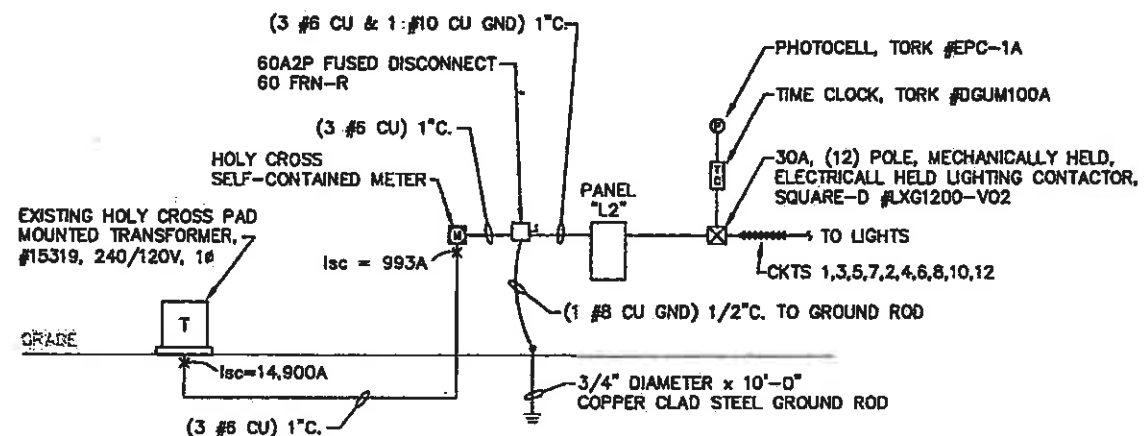
As Constructed
 No Revisions:
 Revised: 6-6-2011
 Void:

EDWARDS INTERCHANGE UPGRADE I-70 G
 BERRY CREEK ROAD
 STA. 715+00 TO LIMIT OF PLAN SET 1
 Designer: ALF
 Detailer: ALF
 Sheet Subset: ELECTRICAL
 Structure Numbers
 Subset Sheets: LT-14 OF 18

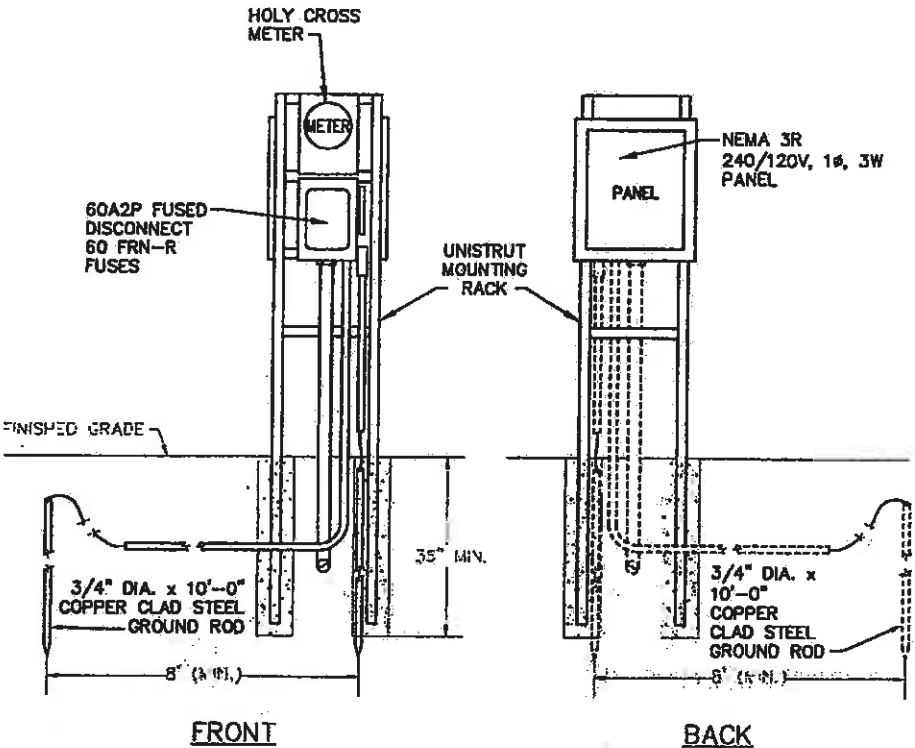
Project No./Code
 ES3 0702-297
 17303
 Sheet Number 283X



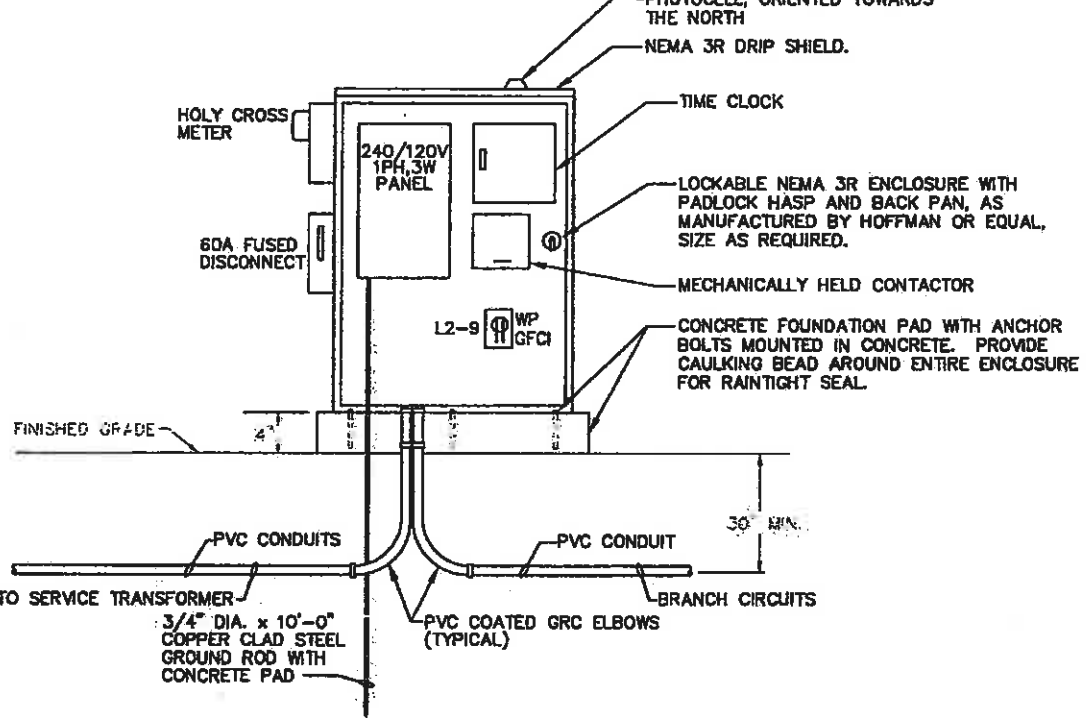
① CDOT ELECTRICAL SERVICE ONE-LINE DIAGRAM
NOT TO SCALE



② EAGLE COUNTY ELECTRICAL SERVICE ONE-LINE DIAGRAM
NOT TO SCALE



③ ELEVATION - CDOT LIGHTING CONTROL CENTER (PEDESTAL)
NOT TO SCALE



④ ELEVATION - EAGLE COUNTY LIGHTING CONTROL CENTER (CABINET)
NOT TO SCALE



FELSBURG
HOLT &
ULLEVIG

Scanlon
Szynskie
Scanlon Szynskie Group, Inc.
3045 S. Parker Road, Suite 225
Aurora, Co 80014-2950
303.676.2602 Fax: 303.676.0612
www.szynskiegrouppc.com 06/16/01/0601601

Print Date:	11/4/2009
Drawing File Name:	PLAN SET LTD1-18 CDOT
Horiz. Scale:	As Noted
Vert. Scale:	As Noted
Unit Information	

Sheet Revisions		
Date	Comments	Init.

Colorado Department of Transportation
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Region 3 MLM

As Constructed
No Revisions: 6-6-2011
Revised:
Void:

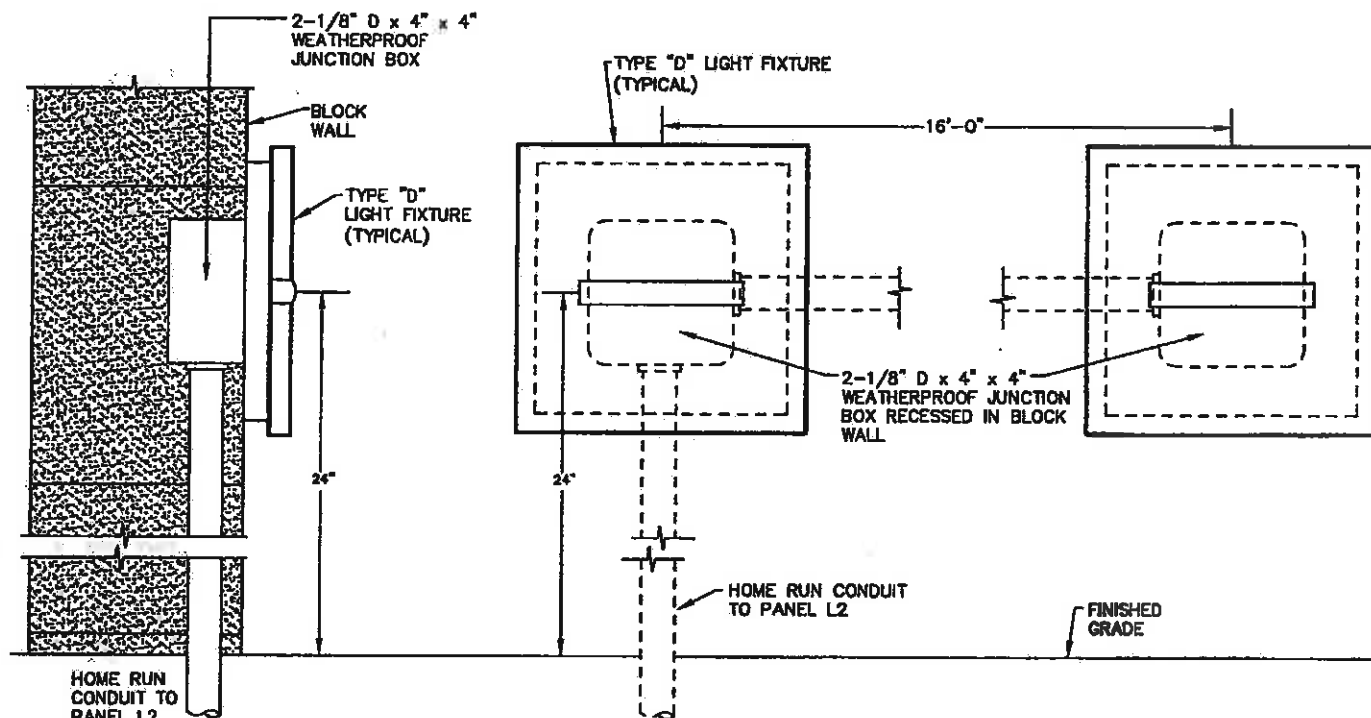
EDWARDS INTERCHANGE UPGRADE I-70 G
ELECTRICAL ONE-LINE DIAGRAM
AND ELECTRICAL ELEVATIONS
Designer: ALF
Detailer: ALF
Sheet Subset: ELECTRICAL
Subset Sheets: LT-15 OF 18

Project No./Code
ES3 0702-297
17303
Sheet Number 284



REFER TO M&S STANDARD PLANS
M-613-1 (10 TO 18' STANDARD)
FOR ADDITIONAL INFORMATION

REFER TO M&S STANDARD PLANS
M-613-1 (10 TO 18' STANDARD)
FOR ADDITIONAL INFORMATION



① MOUNTING DETAIL -
TYPE "B" LIGHT FIXTURE
NOT TO SCALE

② MOUNTING DETAIL -
TYPE "C" LIGHT FIXTURE
NOT TO SCALE

③ MOUNTING DETAIL -
TYPE "D" LIGHT FIXTURE
NOT TO SCALE



Print Date: 11/4/2009	Sheet Revisions			Colorado Department of Transportation	As Constructed	EDWARDS INTERCHANGE UPGRADE I-70 G		Project No./Code
Drawing File Name: PLAN SET LT01-18 CDOT	Date:	Comments:	Init.:	714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	No. Revisions: 6-6-2011	ELECTRICAL DETAILS		ES3 0702-297
Horiz. Scale: As Noted Vert. Scale: As Noted					Revised:	Designer: ALF	Structure Numbers:	17303
Unit Information					Void:	Detailer: ALF		Sheet Number: 285
					Sheet Subset: ELECTRICAL	Subset Sheets: LT-16 OF 18		



LIGHTING FIXTURE SCHEDULE

KEY	LAMPS		DESCRIPTION OF LUMINAIRE		MOUNTING DATA			LUMINAIRE SPECIFICATIONS		
	#	CODE	DESCRIPTION	FINISH	METHOD	RECESS DEPTH	CEILING TYPE	MANUFACTURER	CATALOG NUMBER	VOLTS
A	1	250W HPS	COBRA HEAD FIXTURE ON 40' POLE WITH PHOTOCELL ON 10' ARM	COOT STANDARD	40' POLE W/ 10' ARM	N/A	N/A	GE LIGHTING OR APPROVED EQUAL	MSCL-25-S-0-A-2-2-F-MC3 OR APPROVED EQUAL	120
AA	2	250W HPS	(2) COBRA HEAD FIXTURES ON 40' POLE EACH WITH PHOTOCELL ON 10' ARM	COOT STANDARD	40' POLE W/ 10' ARM	N/A	N/A	GE LIGHTING OR APPROVED EQUAL	MSCL-25-S-0-A-2-2-F-MC3 X2 OR APPROVED EQUAL	120
B	1	150W HPS	DECORATIVE PEDESTRIAN FIXTURE ON 18' POLE WITH ARM AND INTEGRAL PHOTOCELL REFER TO M&S STAND. M-613-1, 10-18' STANDARD	DARK BRONZE	18' POLE W/ ARM	N/A	N/A	KIM LIGHTING OR APPROVED EQUAL	1A/RA173/150HPS120/DB-P/CSS18-534188-DB-P OR APPROVED EQUAL	120
C	1	150W HPS	DECORATIVE PEDESTRIAN FIXTURE ON 18' POLE WITH ARM AND INTEGRAL PHOTOCELL REFER TO M&S STAND. M-613-1, 10-18' STANDARD	DARK BRONZE	18' POLE W/ ARM	N/A	N/A	KIM LIGHTING OR APPROVED EQUAL	1A/RA173/150HPS120/DB-P/CSS18-534188-DB-P OR APPROVED EQUAL	120
D	1	9.5W LED	WALL MOUNTED LED WALKWAY LIGHT	BRONZE	J-BOX	REFER TO DETAIL	N/A	GE LIGHTING OR APPROVED EQUAL	0-01-SL-5K-5K-100-2-0 OR APPROVED EQUAL	120

NOTES:
 1. REFER TO COOT STANDARD PLAN M-613-1 FOR INFORMATION ON TYPICAL CONCRETE FOUNDATION PADS FOR POLE MOUNTED LUMINAIRES (TYPES "A", "AA", "B" AND "C") AND COOT STANDARD PLAN M-613-2 FOR INFORMATION ON TYPICAL BREAK-AWAY TYPE TRANSFORMER BASE FOR POLE MOUNTED LUMINAIRES (TYPES "A" AND "AA").

NEW PANEL "L1"

VOLTS: 240/120V, 1PH, 3W MAINS: 60A M.L.O. A.I.C.: 10KA				MTG: SURFACE NEMA 1 MFGR: GE/SQD/CH/SIE TYPE: BOLT-ON			
DESCRIPTION	T	KVA	BKR	CKT#	BKR	KVA	DESCRIPTION
EDW. ACCESS RD LTG	L	1.10	20A1P	1	2	20A1P 0.82	EDW. ACCESS RD LTG
EDW. ACCESS RD LTG	L	0.55	20A1P	3	4	20A1P 0.55	EDW. ACCESS RD LTG
EDW. ACCESS RD LTG	L	0.55	20A1P	5	8	20A1P 1.00	RAMP LTG
EDW. ACCESS RD LTG	L	0.55	20A1P	7	8	20A1P 1.00	RAMP LTG
RAMP LTG	L	1.00	20A1P	9	10	20A1P 1.00	RAMP LTG
RAMP LTG	L	1.00	20A1P	11	12	20A1P 1.00	RAMP LTG
RAMP LTG	L	1.00	20A1P	13	14	20A1P 0.20	UNDER BRIDGE LTG
RAMP LTG	L	0.50	20A1P	15	16	20A1P 0.20	UNDER BRIDGE LTG
SPACE			20A1P	17	18		SPACE
SPACE			20A1P	19	20		SPACE
SPACE				21	22		SPACE
SPACE				23	24		SPACE
LOAD KVA		LTG	TOTAL				
CONNECTED		12.0	12.0				
NEC DEMAND		15.0	15.0				
AMPS			63				
PHASE KVA			A = 6.7	B = 5.3			
PHASE IMBALANCE (%)			A/B = 24.8				

NEW PANEL "L2"

VOLTS: 240/120V, 1PH, 3W MAINS: 60A M.L.O. A.I.C.: 10KA				MTG: SURFACE NEMA 1 MFGR: GE/SQD/CH/SIE TYPE: BOLT-ON			
DESCRIPTION	T	KVA	BKR	CKT#	BKR	KVA	DESCRIPTION
EDW ACC RD PED LTG	L	0.70	20A1P	1	2	20A1P 0.53	EDW ACC RD PED LTG
EDW ACC RD PED LTG	L	0.53	20A1P	3	4	20A1P 0.35	EDW ACC RD PED LTG
BERRY CR RD LTG	L	0.35	20A1P	5	8	20A1P 0.88	BEARD CR RD LTG
BERRY CR RD LTG	L	0.35	20A1P	7	8	20A1P 0.88	BEARD CR RD LTG
LOCAL CONV REC	R	0.18	20A1P	9	10	20A1P 0.11	UNDR-BR LED LTS
SPACE			20A1P	11	12	20A1P 0.12	UNDR-BR LED LTS
SPACE				13	14		SPACE
SPACE				15	16		SPACE
SPACE				17	18		SPACE
LOAD KVA		LTG	REC	TOTAL			
CONNECTED		4.8	0.2	5.0			
NEC DEMAND		6.0	0.2	6.2			
AMPS				26			
PHASE KVA			A = 2.7	B = 2.2			
PHASE IMBALANCE (%)			A/B = 23.4				



Print Date: 11/4/2009	Sheet Revisions		Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed No Revisions: 6-6-2011	EDWARDS INTERCHANGE UPGRADE I-70 G		Project No./Code ES3 0702-297
Drawing File Name: PLAN SET I LT01-18 COOT	Date:	Comments			Init:	ELECTRICAL SCHEDULES	
Horiz. Scale: As Noted Vert. Scale: As Noted				Revised:	Designer: ALF	Structure Numbers:	Sheet Number 286
Unif. Information				Void:	Detailer: ALF	Sheet Subset: ELECTRICAL Subset Sheets: LT-17 OF 18	



GENERAL DESCRIPTION

IRRIGATION SLEEVES ARE REQUIRED FOR FUTURE IRRIGATION NEEDS. THE IRRIGATION SLEEVES ARE INTENDED FOR FUTURE IRRIGATION MAINLINE PIPE AND IRRIGATION WIRING. THE IRRIGATION MAINLINE PIPE AND IRRIGATION WIRING MUST BE ROUTED THROUGH SEPARATE SLEEVES. ALL SLEEVING MUST BE INSTALLED PER CDOT STANDARDS.

GENERAL NOTES

1. READ THOROUGHLY AND BECOME FAMILIAR WITH THE CDOT SPECIFICATIONS AND INSTALLATION FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
2. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
3. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SLEEVES WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING, OR IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED. BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
4. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE TO BE INSTALLED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED REQUIRES BORING BY THE IRRIGATION CONTRACTOR.
5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - A. IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, ARCHITECTURAL FEATURES, EXISTING AND PROPOSED STORM SEWER, AND EXISTING AND PROPOSED UTILITIES.
6. THE FUTURE NORTH SIDE POINT-OF-CONNECTION LOCATION IS DIAGRAMMATIC ONLY. FINAL LOCATION AND SIZE WILL BE BASED ON FINAL IRRIGATION SYSTEM DESIGN.

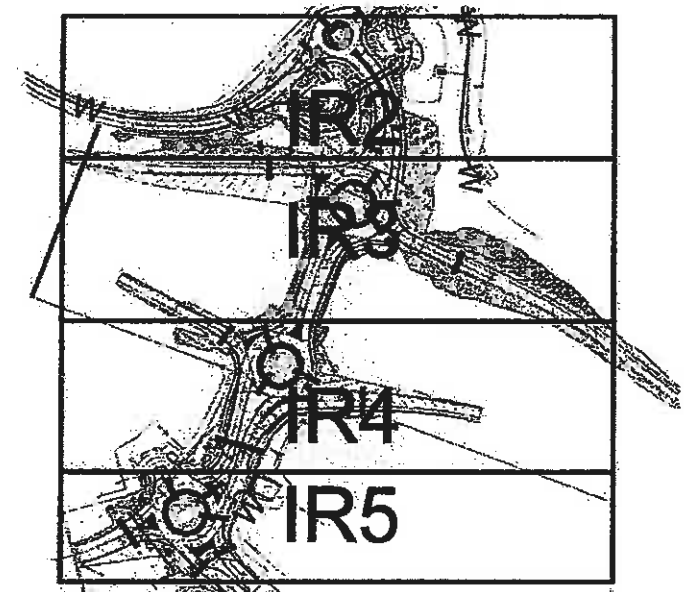
LEGEND

- 25'— SLEEVE LENGTH
- █ SLEEVING: CLASS 200 PVC
- RECOMMENDED FUTURE P.O.C.

FLAG NOTES

- ① PROVIDE AND INSTALL ONE 6-INCH SLEEVE AND ONE 4-INCH SLEEVE IN APPROXIMATE LOCATION SHOWN. THE 6-INCH SLEEVE IS INTENDED FOR IRRIGATION MAINLINE PIPE ROUTING AND THE 4-INCH SLEEVE IS INTENDED FOR IRRIGATION WIRING. INSTALL SLEEVES PER CDOT SPECIFICATION SECTION 623.17. REFER TO SHEET IR5 FOR ADDITIONAL INFORMATION.

	IRRIGATION SLEEVE LENGTH, FT	
	4"	6"
IR2	300	300
IR3	360	360
IR4	418	418
IR5	440	440
TOTAL	1520	1520



**KEYMAP
N.T.S.**



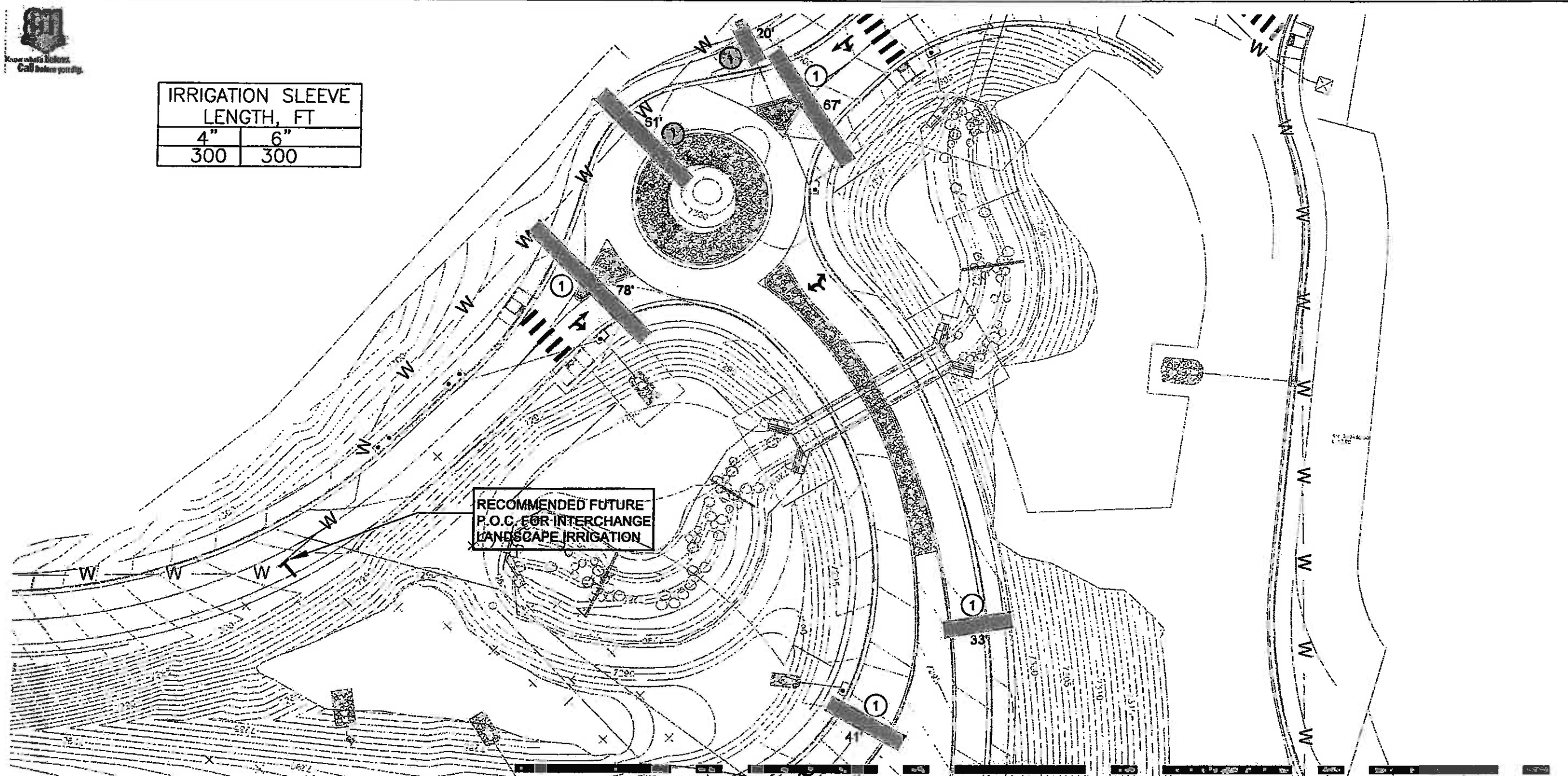
Aqua Engineering, Inc.
 Innovative Water Solutions
 4902 Inverness Circle
 Fort Collins, Colorado 80525
 Phone (970) 229-0000
 FAX (970) 229-3655

Print Date: 8-11-09	Sheet Revisions			Colorado Department of Transportation Region 3	As Constructed	EDWARDS INTERCHANGE UPGRADE EDWARDS ACCESS ROAD STA. TO STA.	Project No./Code
Drawing File Name: P-EDWARDS.DWG	Date:	Comments:	Init.		No Revisions: 6-6-2011		ES31070207020303
Unit Information					Revised:		Designer: JHK Detailer: JHK Sheet Subset: IRRIG. Subset Sheets: IR1 OF 5
Horiz. Scale: AS NOTED	Vert. Scale: NA				Void:	Structure Numbers	C06:250-350
							Sheet Number: 288

714 Grand Avenue, P.O. Box 298
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 Phone: 970-328-6385 FAX: 970-328-2368



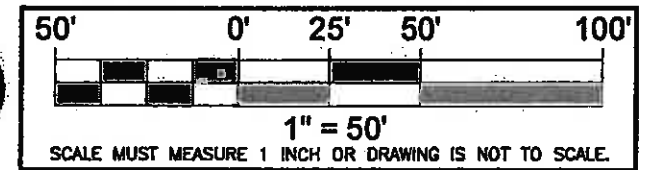
IRRIGATION SLEEVE LENGTH, FT	
4"	6"
300	300




MATCHLINE SEE SHEET IR3



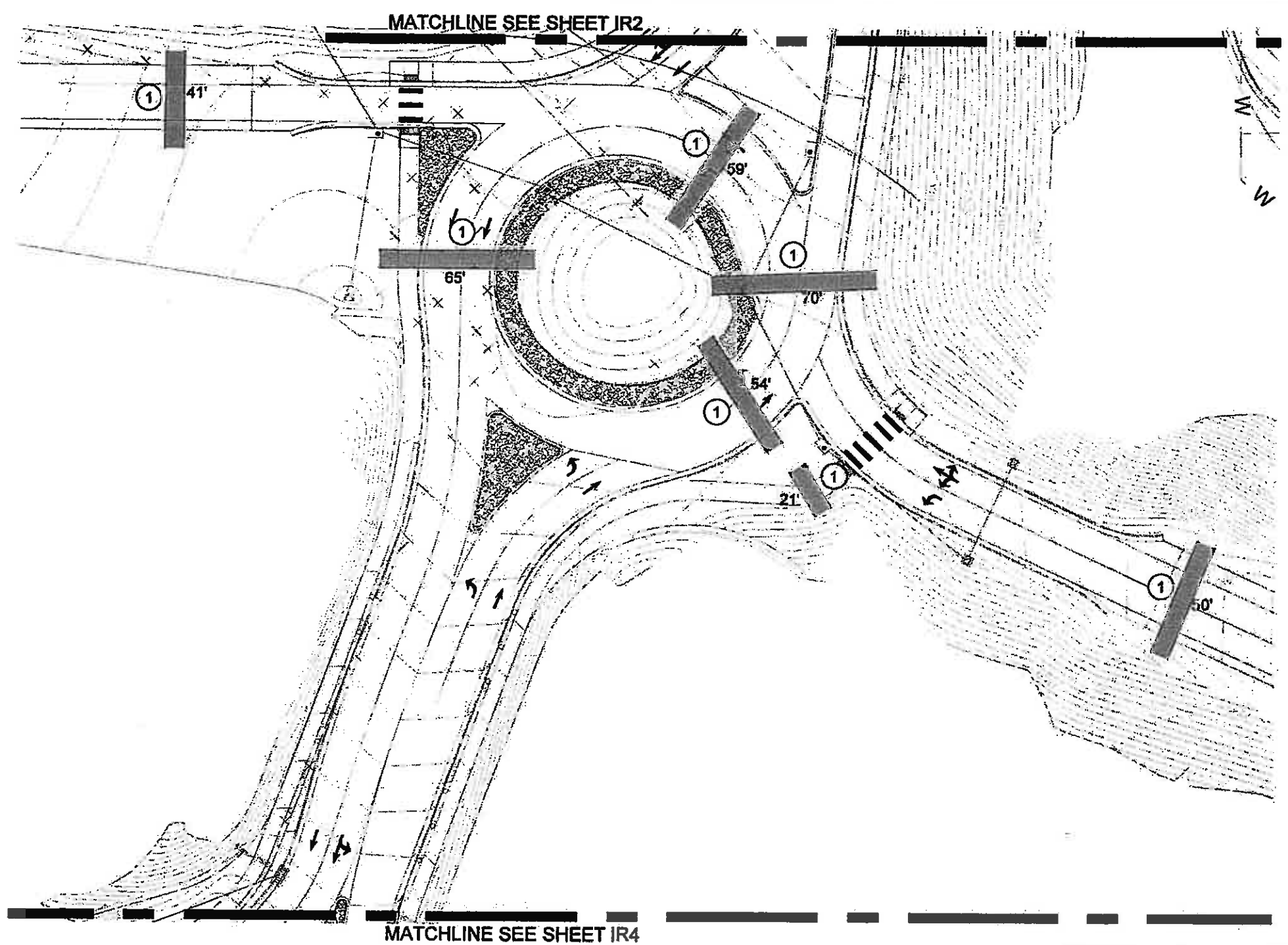
Aqua Engineering, Inc.
 Innovative Water Solutions
 4803 Innovation Drive
 Fort Collins, Colorado 80525
 Phone: 970-228-0000
 FAX: 970-228-0001



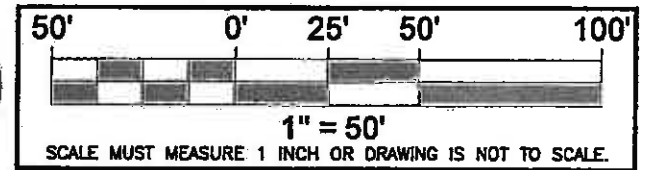
Print Date: 8-11-09	Sheet Revisions			Colorado Department of Transportation  714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed No Revisions: 6/6/2011 Revised: Void:	EDWARDS INTERCHANGE UPGRADE EDWARDS ACCESS ROAD STA. TO STA. Designer: JHK Detailer: JHK Sheet Subset: IRRIG. Subset Sheets: IR2 OF 5	Project No./Code ESS 0702-0297297303 C06-7256-50 Sheet Number 289
Drawing File Name: P-EDWARDS.DWG	Date:	Comments:	Init.:				
Horiz. Scale: AS NOTED	Vert. Scale: NA						
Unit Information							



IRRIGATION SLEEVE LENGTH, FT	
4"	6"
360	360



Aqua Engineering, Inc.
 Innovative Water Solutions
 4033 Innovation Drive
 Fort Collins, Colorado 80525
 Phone (970) 228-0988
 FAX (970) 228-3855

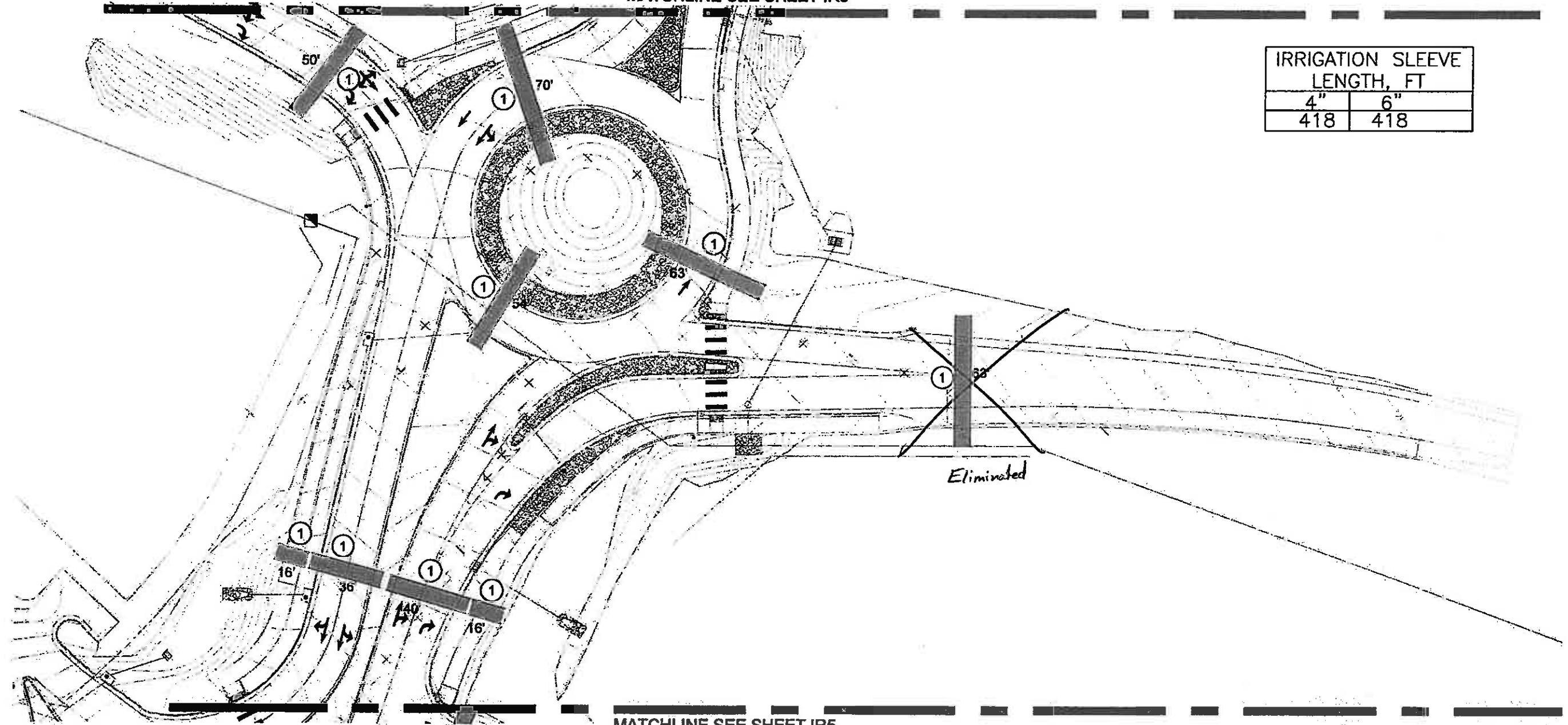


Print Date: 8-11-09	Sheet Revisions			 Colorado Department of Transportation 714 Grand Avenue, P.O. Box 298 Eagle, CO 81631 Phone: 970-328-6385 FAX: 970-328-2368 Region 3 MLM	As Constructed No Revisions: 6-6-2011 Revised: Void:	EDWARDS INTERCHANGE UPGRADE EDWARDS ACCESS ROAD STA. TO STA.		Project No./Code
Drawing File Name: P-EDWARDS.DWG	Date:	Comments	Init.			Designer: JHK	Structure Numbers	ES30702-297-49303
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Unit Information						Sheet Subset: IRRIG.	Subset Sheets: IR3 OF 5	Sheet Number: 290

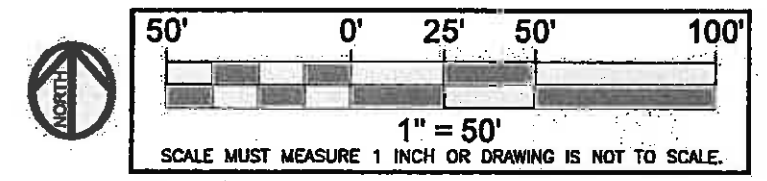


MATCHLINE SEE SHEET IR3

IRRIGATION SLEEVE LENGTH, FT	
4"	6"
418	418



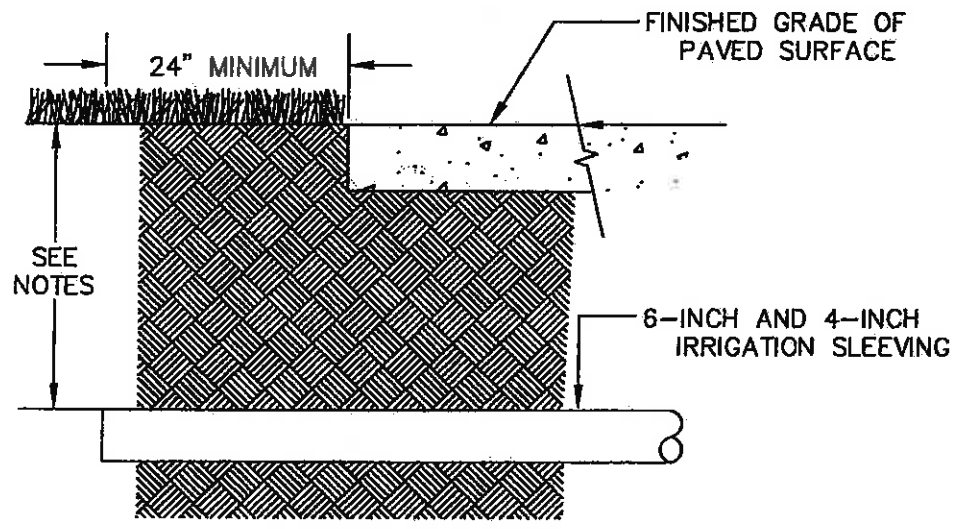
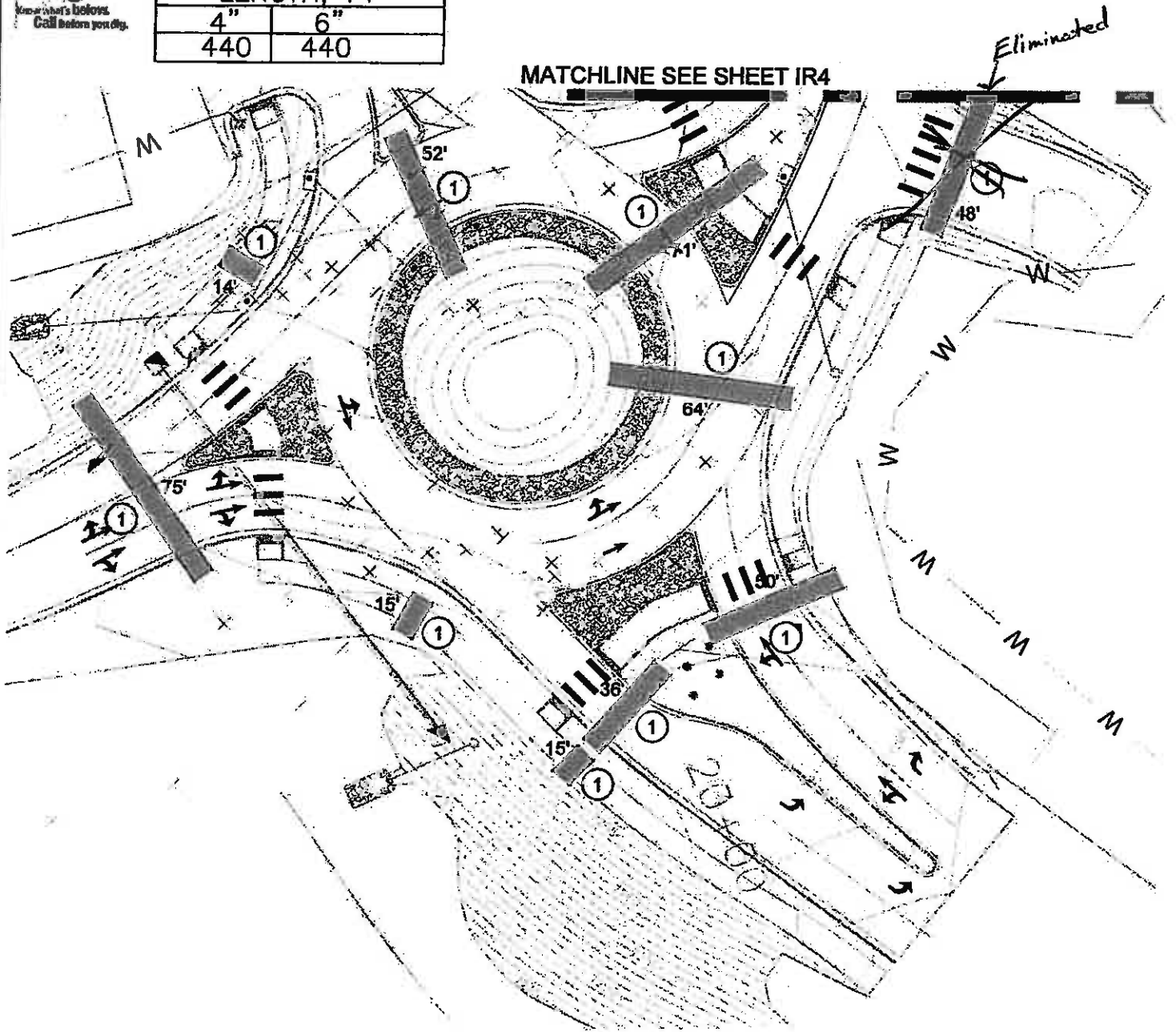
MATCHLINE SEE SHEET IR5



Print Date: 8-11-09	Sheet Revisions			Colorado Department of Transportation Region 3 MLM	As Constructed No Revisions: Revised: 6-6-2011 Void:	EDWARDS INTERCHANGE UPGRADE EDWARDS ACCESS ROAD STA. TO STA.		Project No./Code
Drawing File Name: P-EDWARDS.DWG	Date:	Comments:	Init.:			ES200702-202/20303		
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Unit Information						Sheet Number: 291		

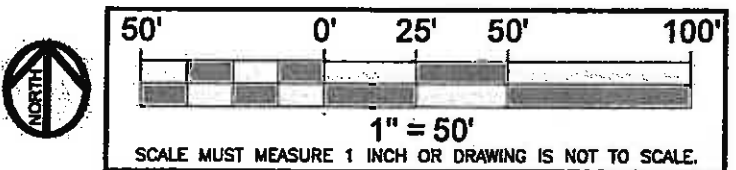


IRRIGATION SLEEVE LENGTH, FT	
4"	6"
440	440



- NOTES:
1. INSTALL SLEEVING SO THAT ITS LOWEST ELEVATION OCCURS AT ONE OR BOTH ENDS - NOT ALONG ITS LENGTH.
 2. REFER TO CDOT SPECIFICATION SECTION 623.17 FOR BURIAL DEPTHS, MATERIAL, AND CLEARANCES.
 3. INSTALL 10-INCH ROUND VALVE BOXES AT GRADE AT SLEEVE ENDS.
 4. MARK SLEEVE ENDS ON AS-BUILT DRAWINGS.

1 SLEEVING DETAIL N.T.S.



Print Date: 8-11-09
Drawing File Name: P-EDWARDS.DWG
Horiz. Scale: AS NOTED
Unit Information

Sheet Revisions		
Date:	Comments	Init.
(R-X)		

Colorado Department of Transportation
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 Eagle, CO 81631
 Phone: 970-328-6385 FAX: 970-328-2368
 Region 3 MLM

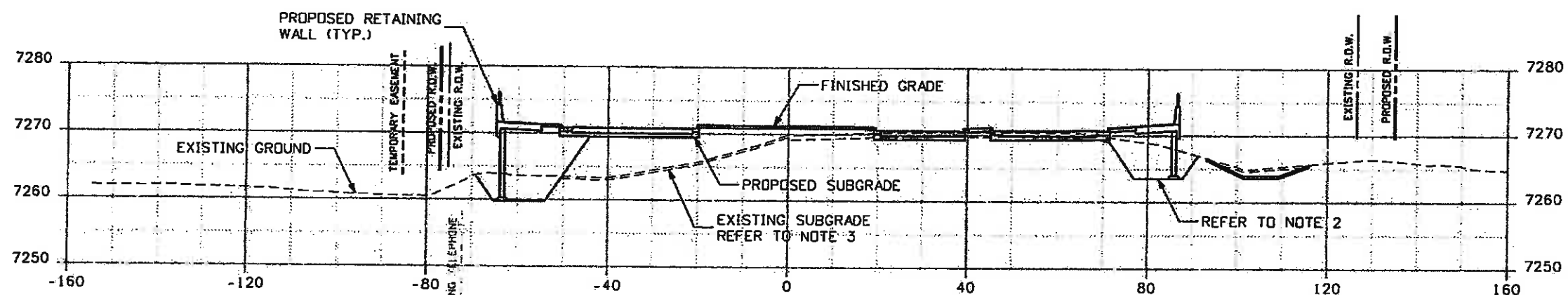
As Constructed
No Revisions:
Revised: 6-6-2011
Void:

EDWARDS INTERCHANGE UPGRADE EDWARDS ACCESS ROAD STA. TO STA.	
Designer: JHK	Structure Numbers
Detailer: JHK	
Sheet Subset: IRRIG.	Subset Sheets: IR5 OF 5

Project No./Code
ES3:9302-297/23303
COB-7286-50
Sheet Number: 292



CROSS SECTION LEGEND



UTILITIES ARE PLOTTED USING THE BEST AVAILABLE INFORMATION AND ARE SHOWN FOR INFORMATION ONLY

STA. X+XX
 FILL AREA- X S.F.
 FILL VOLUME- X C.Y.
 CUT AREA- X S.F.
 CUT VOLUME- X C.Y.

CROSS SECTION NOTES:

1. BREAK POINTS ON SLOPES AND IN BOTTOM OF DITCHES SHALL BE ROUNDED DURING CONSTRUCTION FOR A PLEASING APPEARANCE.
2. THE EARTHWORK VOLUMES WERE CALCULATED BETWEEN THE EXISTING SUBGRADE AND THE PROPOSED SUBGRADE. STRUCTURAL EXCAVATION AND BACKFILL VOLUMES WERE EXCLUDED. SEE WALL PLANS FOR ADDITIONAL INFORMATION.
3. THE EXISTING SUBGRADE ACCOUNTS FOR THE REMOVAL OF EXISTING ITEMS SUCH AS PAVEMENT AND TOPSOIL. 4 INCHES OF EXISTING TOPSOIL AND 8 INCHES OF EXISTING PAVEMENT WERE USED FOR QUANTITY CALCULATIONS.



Print Date: 11/5/2009	
Drawing File Name: EDWARDS-ACCESS.dgn	
Horiz. Scale: 1:30	Vert. Scale: 1:20
Unit Information	Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

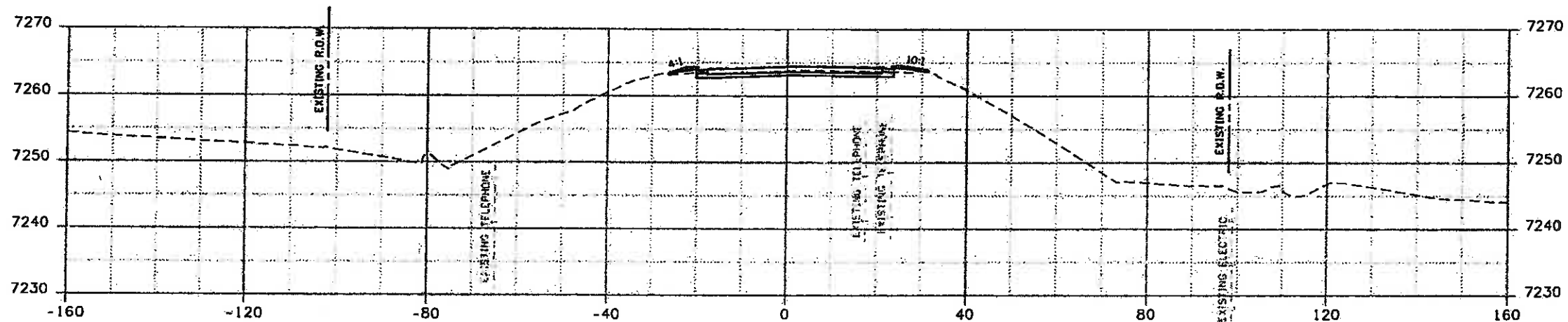
714 Grand Avenue, P.O. Box 298
 Eagle, CO 81631
 Phone: 970-328-6385 FAX: 970-328-2368

Region 3 MLM

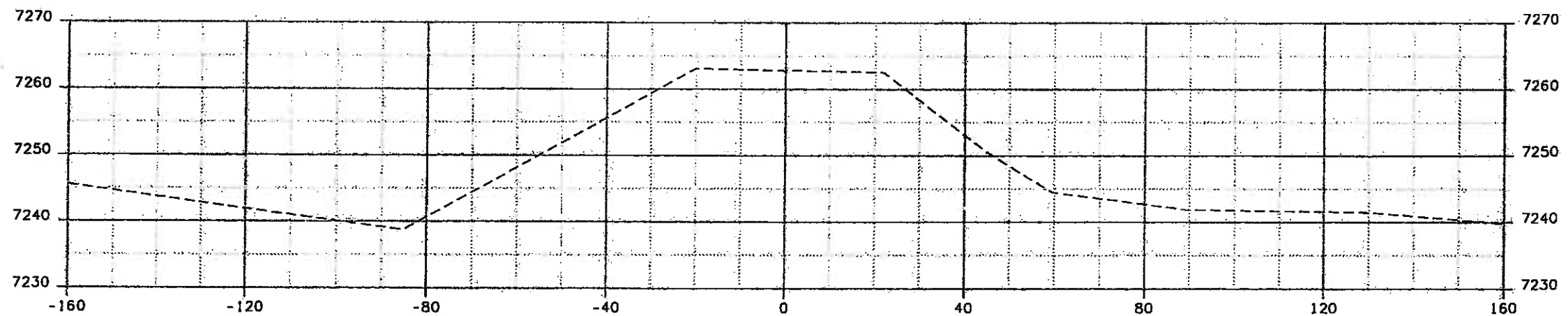
As Constructed
No Revisions: 6-6-2011
Revised:
Void:

EDWARDS INTERCHANGE UPGRADE CROSS SECTION LEGEND	
Designer: DCS	Structure Numbers
Detailer: DCS	
Sheet Subset: SECTIONS	Subset Sheets: CS-1 of 92

Project No./Code
ES3 2002-707-1003
Sheet Number 293



STA. 1+50
 FILL AREA- 4.81 S.F.
 FILL VOLUME- 4.46 C.Y.
 CUT AREA- 30.45 S.F.
 CUT VOLUME- 28.19 C.Y.



STA. 1+00
 FILL AREA- 0.00 S.F.
 FILL VOLUME- 0.00 C.Y.
 CUT AREA- 0.00 S.F.
 CUT VOLUME- 0.00 C.Y.



**FELSBURG
 HOLT &
 ULLEVIG**

Print Date: 11/5/2009

Drawing File Name: EDWARDS-ACCESS.dgn

Horiz. Scale: 1:30

Vert. Scale: 1:20

Unit Information

Unit Leader Initials

R-X
 0000

Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



714 Grand Avenue, P.O. Box 298
 Eagle, CO 81631
 Phone: 970-328-6385 FAX: 970-328-2368

Region 3

MLM

As Constructed

No Revisions: 6-6-2011

Revised:

Void:

**EDWARDS INTERCHANGE UPGRADE
 CROSS SECTIONS
 EDWARDS ACCESS RD**

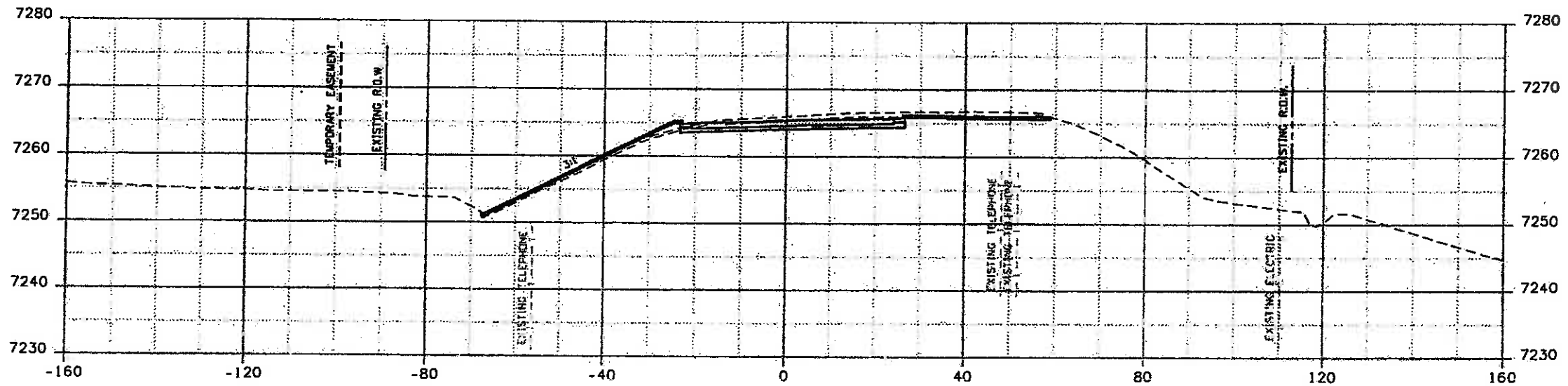
Designer:	DCS	Structure	
Detailer:	DCS	Numbers	
Sheet Subset:	SECTIONS	Subset Sheets:	CS-2 of 92

Project No./Code

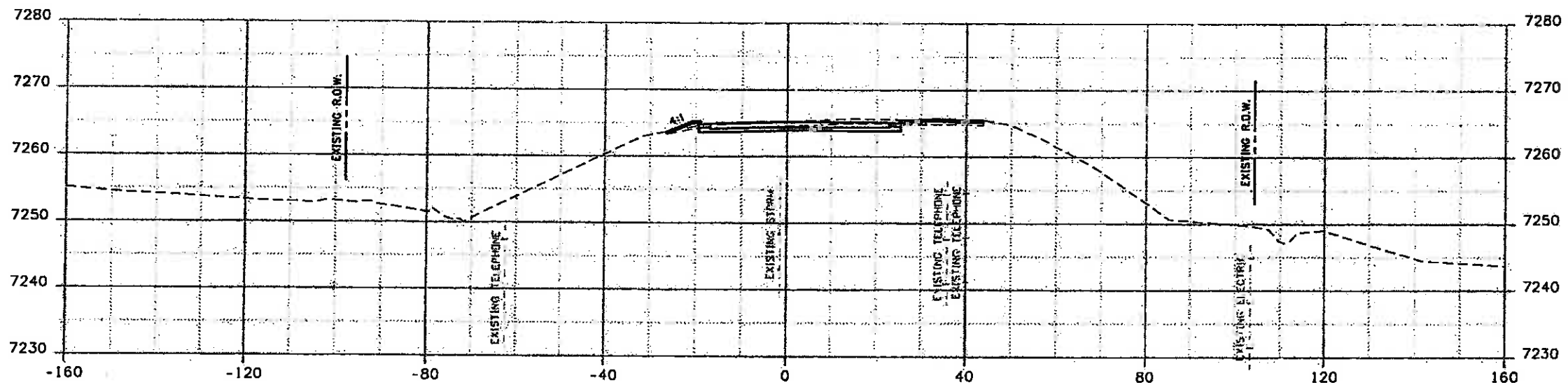
ES: 07027027-07303

CO67388-50

Sheet Number 294



STA. 2+50
 FILL AREA- 20.55 S.F.
 FILL VOLUME- 28.33 C.Y.
 CUT AREA- 71.09 S.F.
 CUT VOLUME- 97.56 C.Y.




STA. 2+00
 FILL AREA- 10.05 S.F.
 FILL VOLUME- 13.76 C.Y.
 CUT AREA- 34.28 S.F.
 CUT VOLUME- 59.93 C.Y.



Print Date: 11/5/2009	
Drawing File Name: EDWARDS-ACCESS.dgn	
Horiz. Scale: 1:30	Vert. Scale: 1:20
Unit Information	Unit Leader Initials

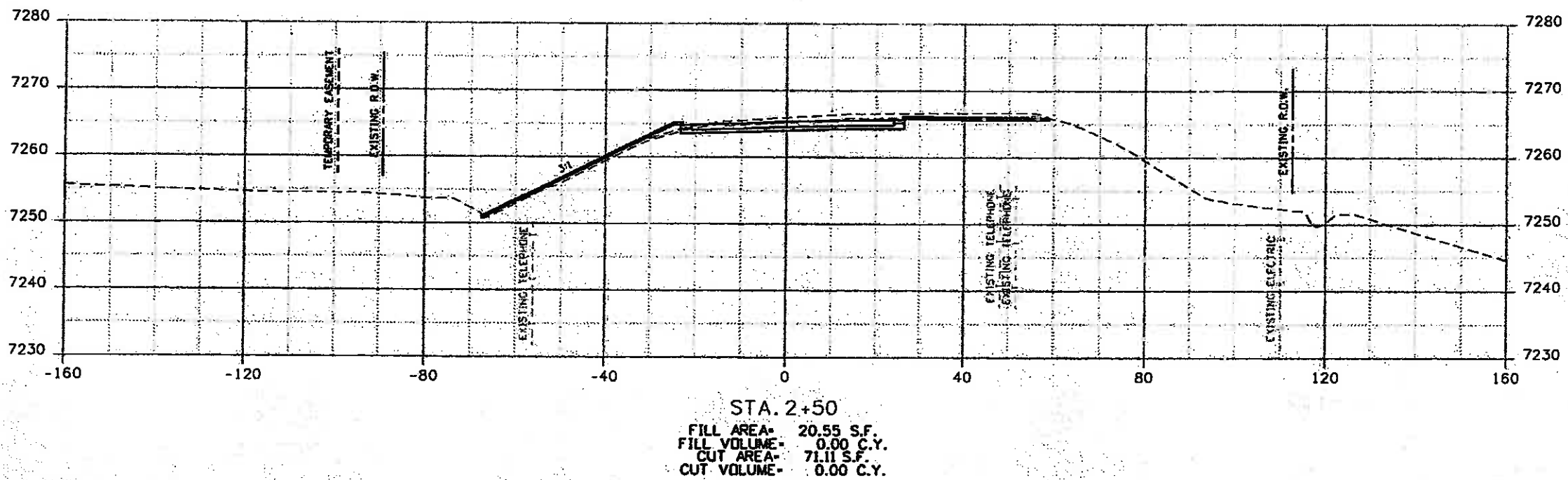
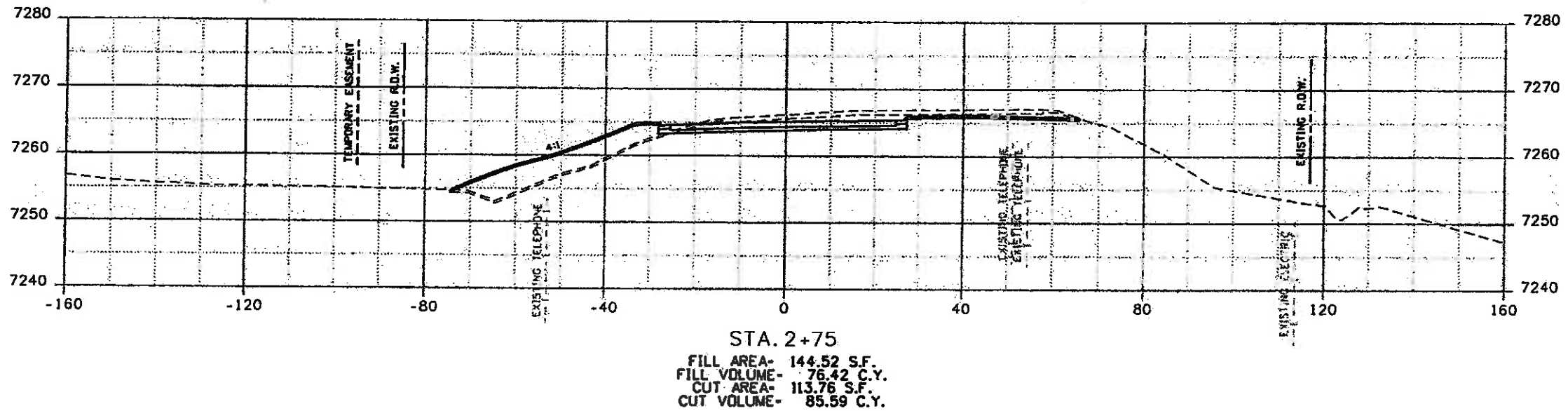
Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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 Region 3 MLM

As Constructed
No Revisions: 6-6-2011
Revised:
Void:

EDWARDS INTERCHANGE UPGRADE CROSS SECTIONS EDWARDS ACCESS RD	
Designer: DCS	Structure:
Detailer: DCS	Numbers:
Sheet Subset: SECTIONS	Subset Sheets: CS-3 of 92

Project No./Code
ES388302-2007-20303
067-308-50
Sheet Number 295



**FELSBURG
HOLT &
ULLEVIG**

Print Date: 11/5/2009

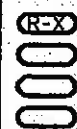
Drawing File Name: EDWARDS-ACCESS.dgn

Horiz. Scale: 1:30

Vert. Scale: 1:20

Unit Information

Unit Leader Initials



Sheet Revisions

Date:	Comments	Init.

Colorado Department of Transportation



Region 3

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MLM

As Constructed

No Revisions: 6-6-2011

Revised:

Void:

**EDWARDS INTERCHANGE UPGRADE
CROSS SECTIONS
MILLER RANCH RD ROUNDABOUT**

Designer: DCS
Detailer: DCS

Structure
Numbers

Sheet Subset: SECTIONS

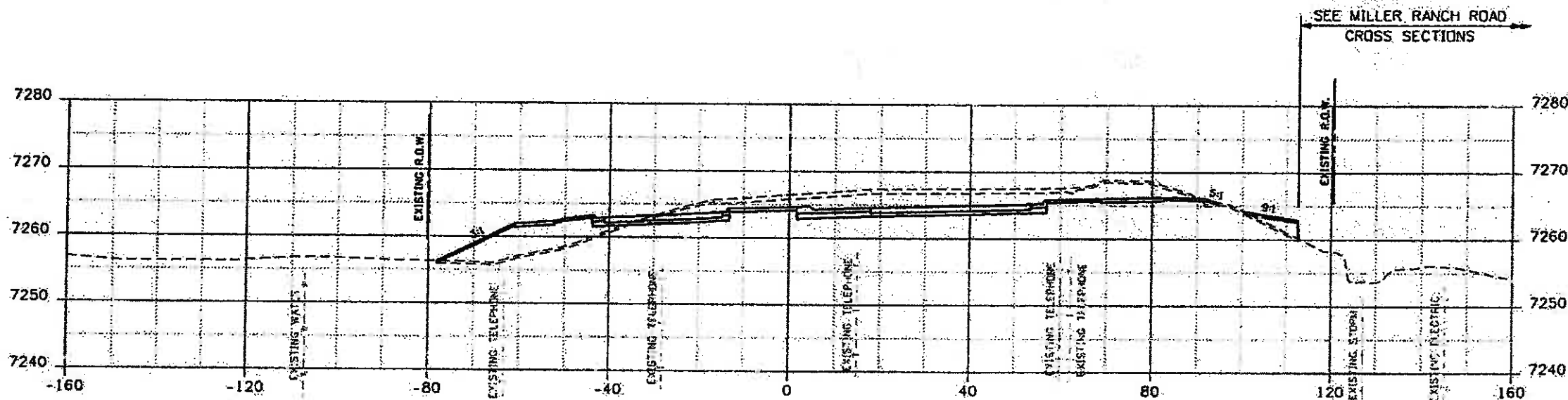
Subset Sheets: CS-4 of 92

Project No./Code

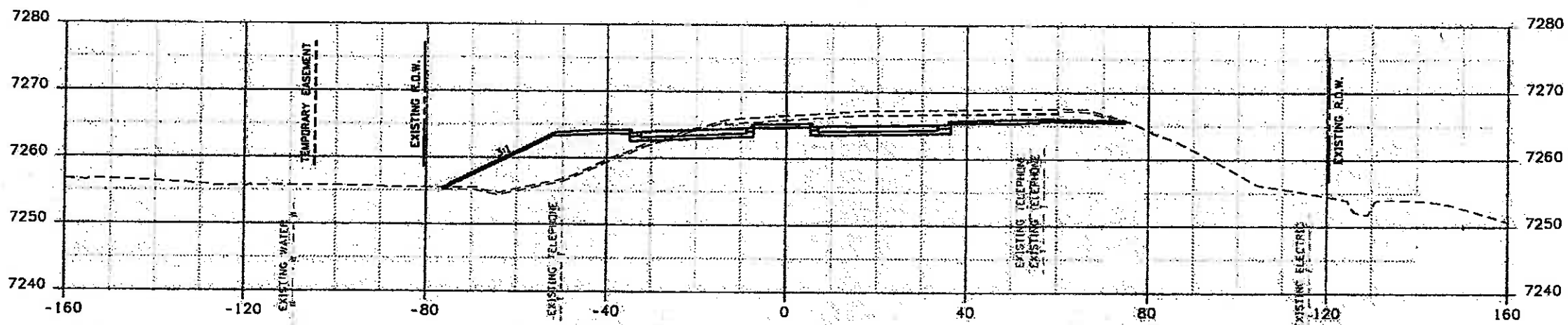
ES388702-2007/2303

C067258-50

Sheet Number **296**



STA. 3+25
 FILL AREA- 144.84 S.F.
 FILL VOLUME- 157.51 C.Y.
 CUT AREA- 301.11 S.F.
 CUT VOLUME- 220.88 C.Y.



STA. 3+00
 FILL AREA- 195.39 S.F.
 FILL VOLUME- 157.36 C.Y.
 CUT AREA- 175.98 S.F.
 CUT VOLUME- 134.14 C.Y.

ZZZ



Print Date: 11/5/2009
 Drawing File Name: EDWARDS-ACCESS.dgn
 Horiz. Scale: 1:30
 Unit Information

Sheet Revisions		
Date:	Comments	Init.

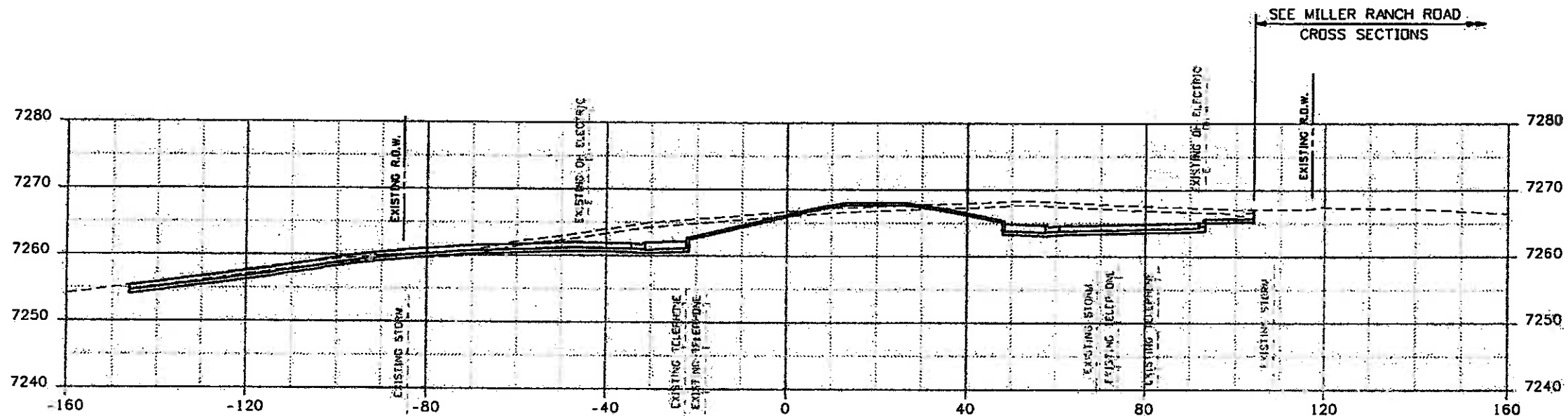
Colorado Department of Transportation
 714 Grand Avenue, P.O. Box 298
 Eagle, CO 81631
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 Region 3 MLM

As Constructed
 No Revisions: 6-6-2011
 Revised:
 Void:

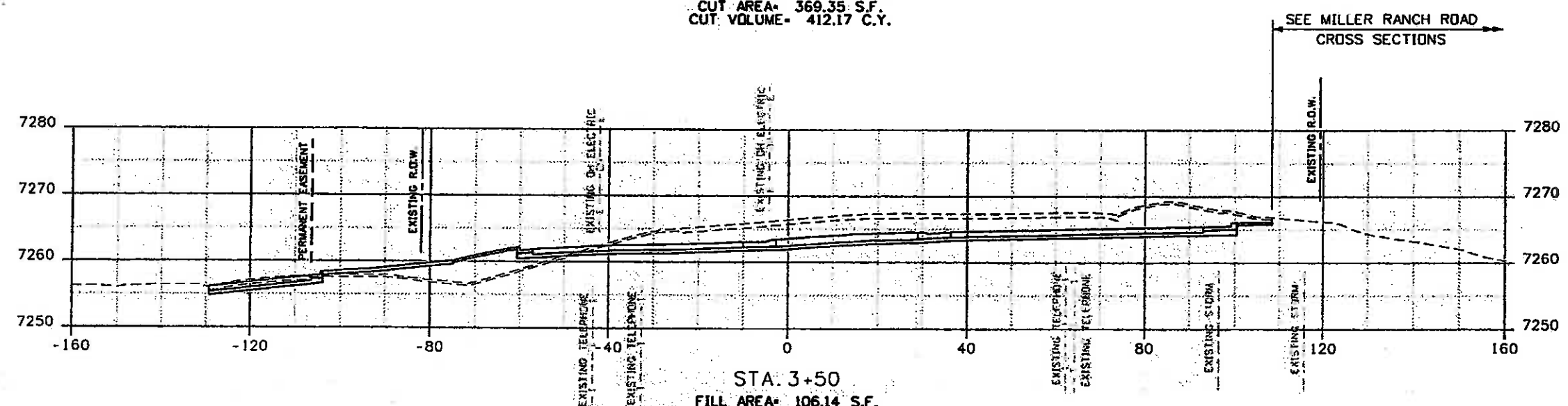
EDWARDS INTERCHANGE UPGRADE
 CROSS SECTIONS
 MILLER RANCH RD ROUNDABOUT

Designer: DCS
 Detailer: DCS
 Sheet Subset: SECTIONS
 Structure Numbers
 Subset Sheets: CS-5 of 92

Project No./Code
 ES 0702-09703
 CO 7208-50
 Sheet Number 297



STA. 3+75
 FILL AREA- 24.00 S.F.
 FILL VOLUME- 60.25 C.Y.
 CUT AREA- 369.35 S.F.
 CUT VOLUME- 412.17 C.Y.



STA. 3+50
 FILL AREA- 106.14 S.F.
 FILL VOLUME- 116.20 C.Y.
 CUT AREA- 520.94 S.F.
 CUT VOLUME- 380.58 C.Y.



Print Date: 11/5/2009	Unit Information
Drawing File Name: EDWARDS-ACCESS.dgn	Unit Leader Initials
Horiz. Scale: 1:30	
Vert. Scale: 1:20	

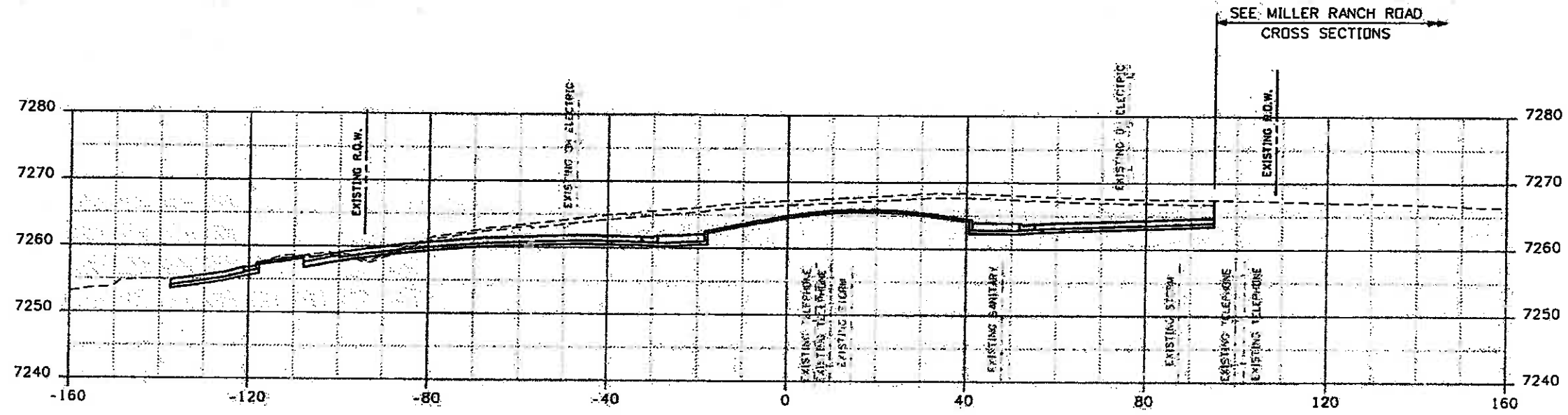
Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 714 Grand Avenue, P.O. Box 298
 Eagle, CO 81631
 Phone: 970-328-6385 FAX: 970-328-2368
 Region 3 MLM

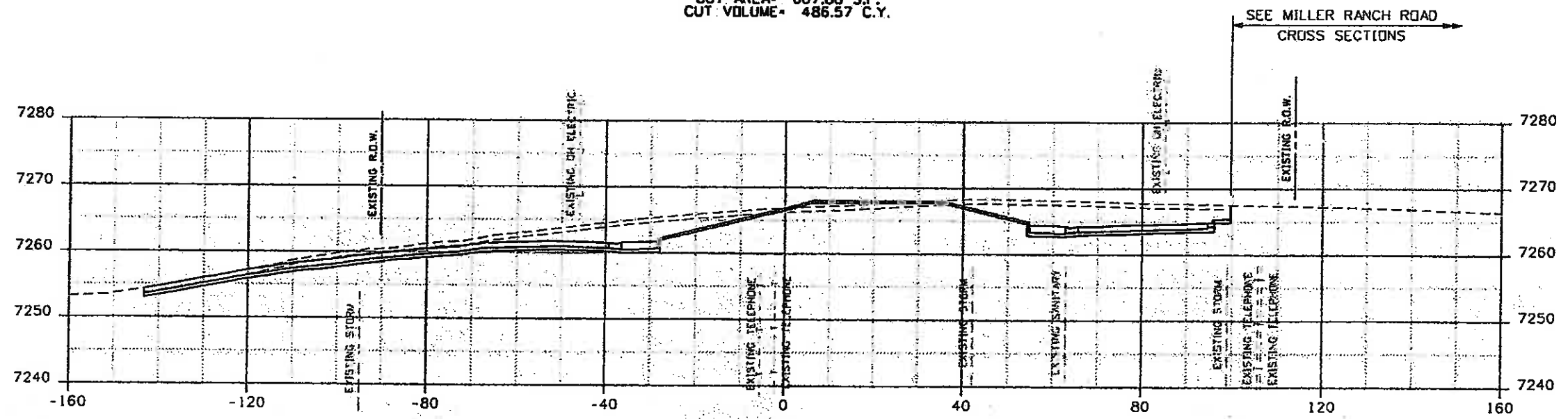
As Constructed
 No Revisions: 6-6-2011
 Revised:
 Void:

EDWARDS INTERCHANGE UPGRADE
 CROSS SECTIONS
 MILLER RANCH RD ROUNDABOUT
 Designer: DCS
 Detailer: DCS
 Sheet Subset: SECTIONS
 Structure Numbers
 Subset Sheets: CS-6 of 92

Project No./Code
 ES3097007207-13303
 C067203-50
 Sheet Number 298



STA. 4+25
 FILL AREA- 3.87 S.F.
 FILL VOLUME- 14.97 C.Y.
 CUT AREA- 607.88 S.F.
 CUT VOLUME- 486.57 C.Y.



STA. 4+00
 FILL AREA- 28.47 S.F.
 FILL VOLUME- 24.29 C.Y.
 CUT AREA- 443.11 S.F.
 CUT VOLUME- 376.14 C.Y.



Print Date: 11/5/2009	
Drawing File Name: EDWARDS-ACCESS.dgn	
Horiz. Scale: 1:30	Vert. Scale: 1:20
Unit Information	Unit Leader Initials

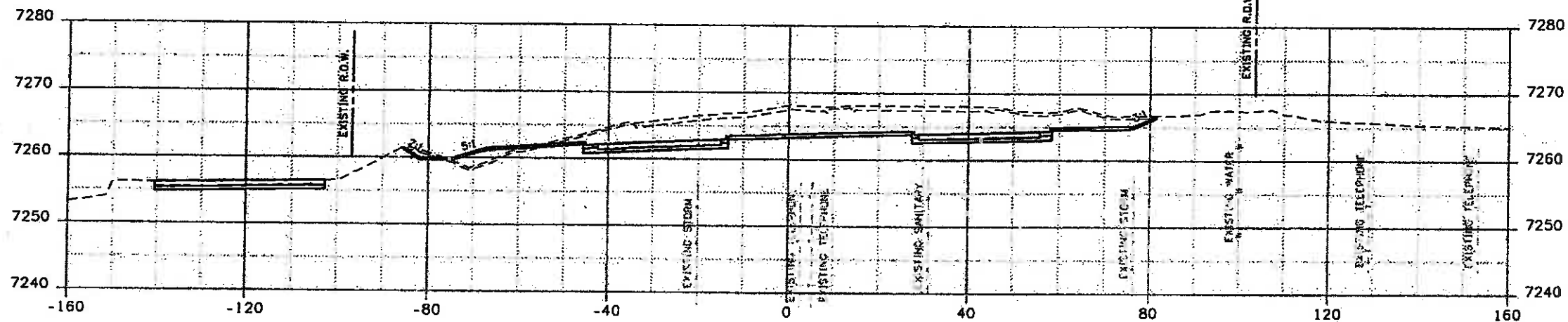
Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation
 714 Grand Avenue, P.O. Box 298
 Eagle, CO 81631
 Phone: 970-328-6385 FAX: 970-328-2368
 Region 3 MLM

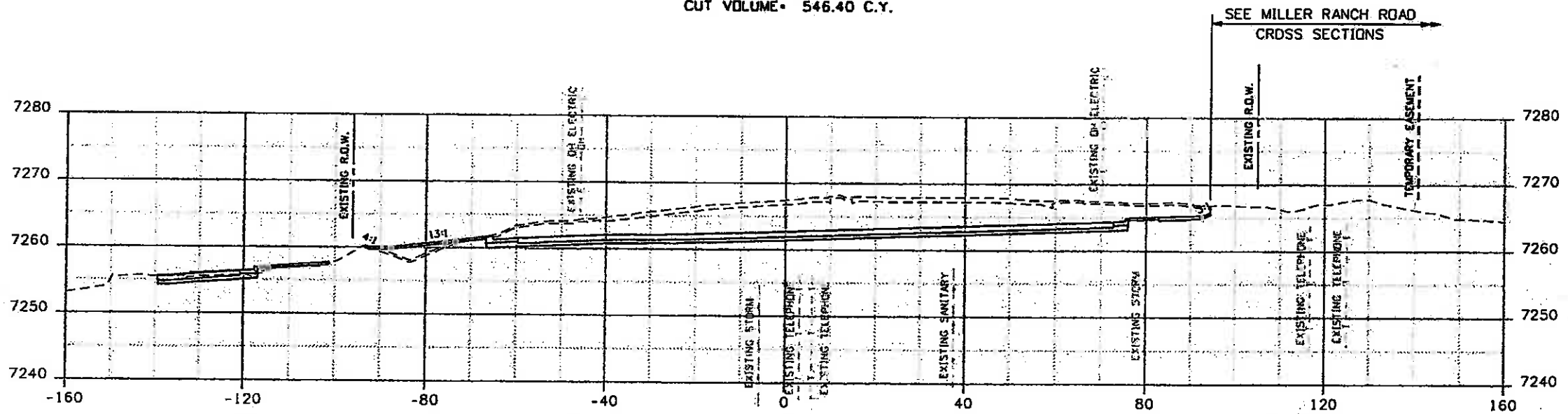
As Constructed
No Revisions: 6-6-2011
Revised:
Void:

EDWARDS INTERCHANGE UPGRADE CROSS SECTIONS MILLER RANCH RD ROUNDABOUT	
Designer: DCS	Structure Numbers
Detailer: DCS	
Sheet Subset: SECTIONS	Subset Sheets: CS-7 of 92

Project No./Code
ES 38702-712-2303
C08-296-50
Sheet Number 299



STA. 4+75
 FILL AREA- 24.02 S.F.
 FILL VOLUME- 22.58 C.Y.
 CUT AREA- 496.44 S.F.
 CUT VOLUME- 546.40 C.Y.



STA. 4+50
 FILL AREA- 24.76 S.F.
 FILL VOLUME- 13.25 C.Y.
 CUT AREA- 683.78 S.F.
 CUT VOLUME- 597.99 C.Y.



FELSBURG
 HOLT &
 ULLEVIG

Print Date: 11/5/2009
 Drawing File Name: EDWARDS-ACCESS.dgn
 Horiz. Scale: 1:30
 Unit Information
 Vert. Scale: 1:20
 Unit Leader Initials

Sheet Revisions		
Date:	Comments	Init.

Colorado Department of Transportation

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 Region 3 MLM

As Constructed
 No Revisions: 6-6-2011
 Revised:
 Void:

EDWARDS INTERCHANGE UPGRADE
 CROSS SECTIONS
 MILLER RANCH RD ROUNDABOUT
 Designer: DCS
 Detailer: DCS
 Sheet Subset: SECTIONS
 Structure Numbers
 Subset Sheets: CS-8 of 92

Project No./Code
 ES3 2020-202/17303
 C067258-50
 Sheet Number 300