

Oversight / NHS

FHWA OVERSIGHT NO YES

NATIONAL HIGHWAY SYSTEM NO YES

Related Projects:
P. E. UNDER PROJECT:
Project Number - IM 070A-003
Project Code - 14123

R.O.W. Projects
R.O.W. Project Description
Project Number -
Project Code -

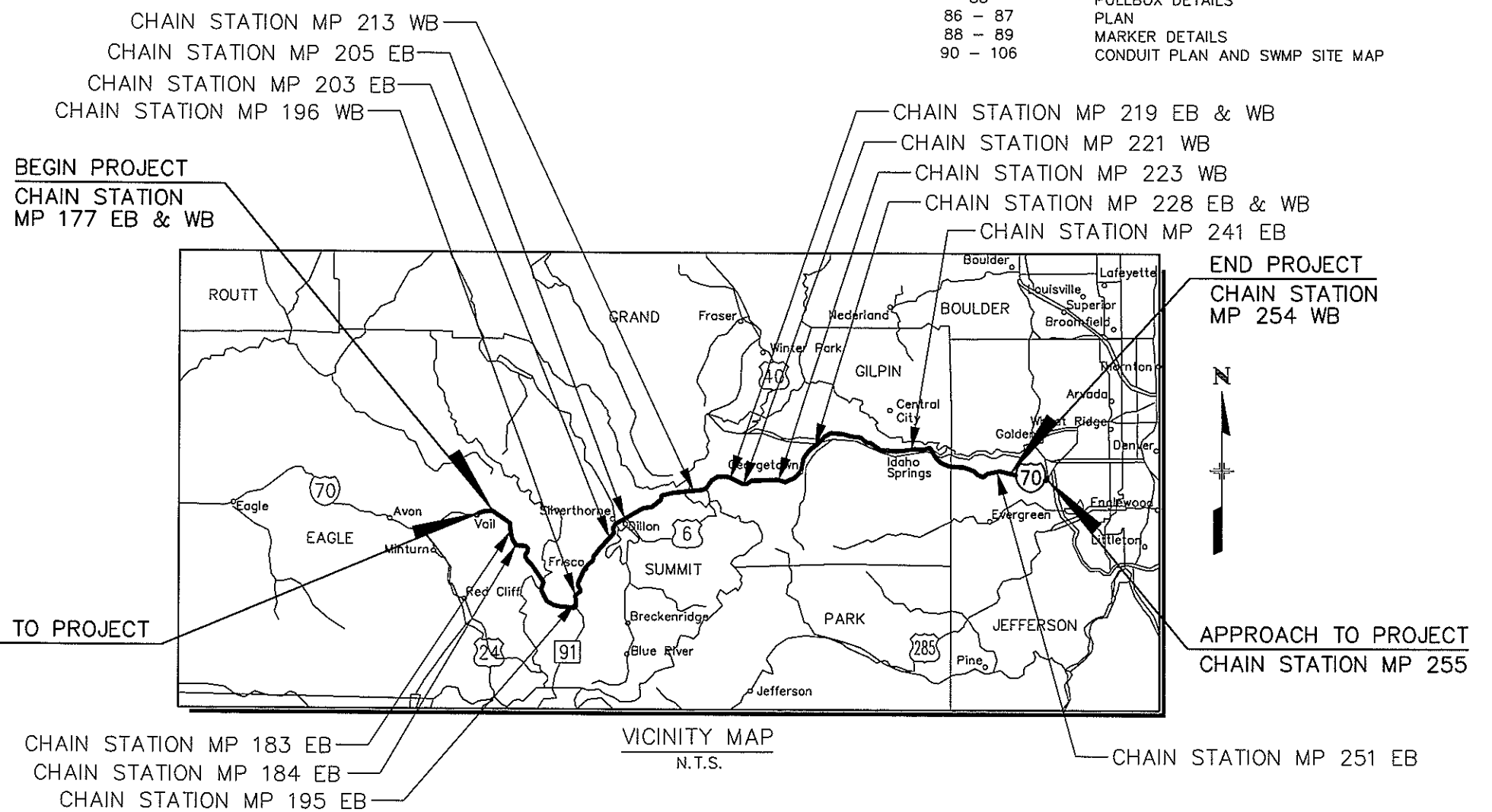
DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO
HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED
FEDERAL AID PROJECT NO. IM 070A-003
INTERSTATE 70
EAGLE, SUMMIT, CLEAR CREEK, JEFFERSON COUNTY
CONSTRUCTION PROJECT CODE NO. 16701



FINAL OFFICE REVIEW
03/28/08

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3	TYPICAL SECTIONS
4	GENERAL NOTES
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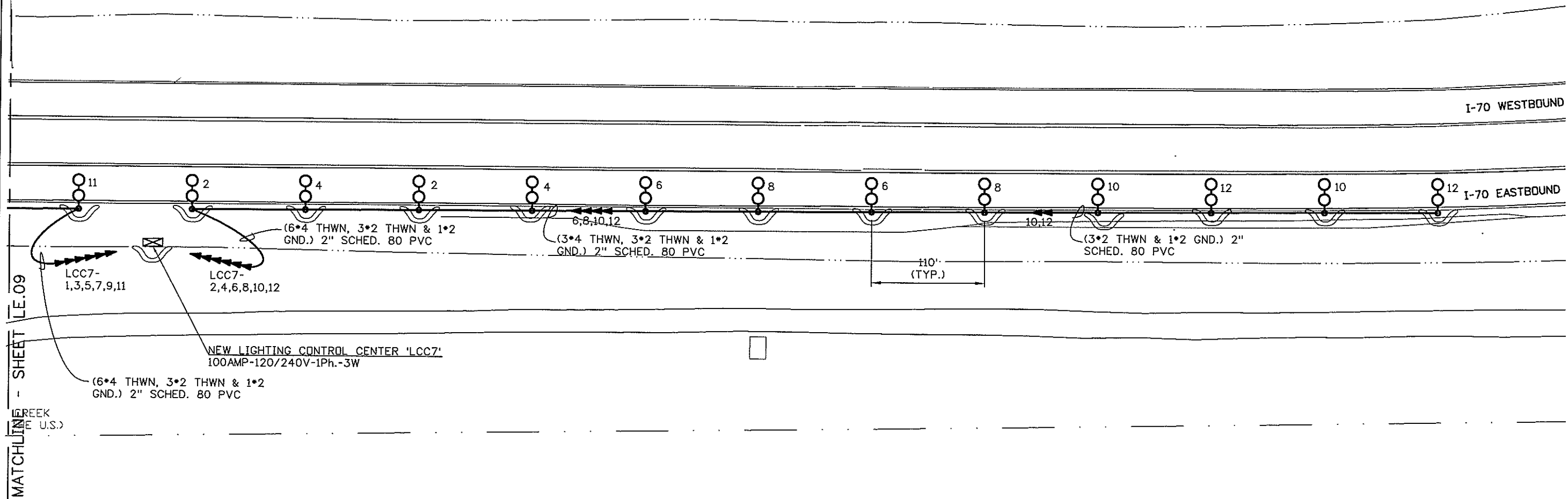
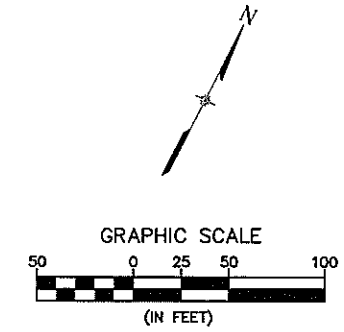
TABULATION OF LENGTH & DESIGN DATA

STATION	FEET		TOTAL DIST (FT.)	MAJOR STA.
	ROADWAY	I-70		
MILEPOST	STA. BEGINNING	STA. END		
Approach to Project MP 176				
MP 177 EB	10+00.00	36+50.00	2650.00	
MP 183 EB	10+00.00	24+00.00	1400.00	
MP 184 EB	10+00.00	23+00.00	1300.00	
MP 195 EB	10+00.00	39+00.00	2900.00	
MP 196 WB	10+00.00	24+00.00	1400.00	
MP 203 EB	10+00.00	17+50.00	750.00	
MP 205 EB	10+00.00	17+00.00	750.00	
MP 211 WB	10+00.00	19+00.00	900.00	
MP 219 EB	10+00.00	27+00.00	1700.00	
MP 219 WB	10+00.00	29+00.00	1900.00	
MP 221 WB	10+00.00	19+00.00	900.00	
MP 223 WB	10+00.00	22+00.00	1200.00	
MP 228 EB	10+00.00	38+00.00	2800.00	
MP 228 WB	10+00.00	44+00.00	3400.00	
MP 243 WB	10+00.00	23+00.00	1300.00	
MP 251 WB	10+00.00	19+00.00	900.00	
MP 254 WB	10+00.00	23+50.00	1350.00	
End of Project MP 254				
TOTAL			27500.0	
SUMMARY OF PROJECT LENGTH	FEET	MILES		
ROADWAY (NET LENGTH)	27500.0	5.2		
PROJECT GROSS LENGTH	411,840.0	78.0		



Computer File Information		Index of Revisions		 Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed		Contract Information		Project No./Code
Creation Date:	02/18/08 Initials: SRB							No. Revisions:		Contractor:
Last Modification Date:	03/25/08 Initials: BEG					Revised:		Resident Engineer:		
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Drawing File Name:	gets.01.dgn							Project Started:	Project Accepted:	
Scale:	NTS Units: ENGLISH							Comments:		Sheet Number: 1

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MATCHLINE SHEET LE.09

CREEK (E. U.S.)

PRELIMINARY

MP 205EB

CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING
4999 NAUTILUS COURT SOUTH STE. 102
DENVER, CO 80231
303-535-7229

Computer File Information	
Creation Date: February 11, 2008	Initials: GF
Last Modification Date: March 25, 2008	Initials: JE
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FAX: (303) 365-7343

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4601 DTC Blvd.
Suite 700
Denver, CO 80237
Phone: (303) 221-7275
Fax: (303) 221-7276

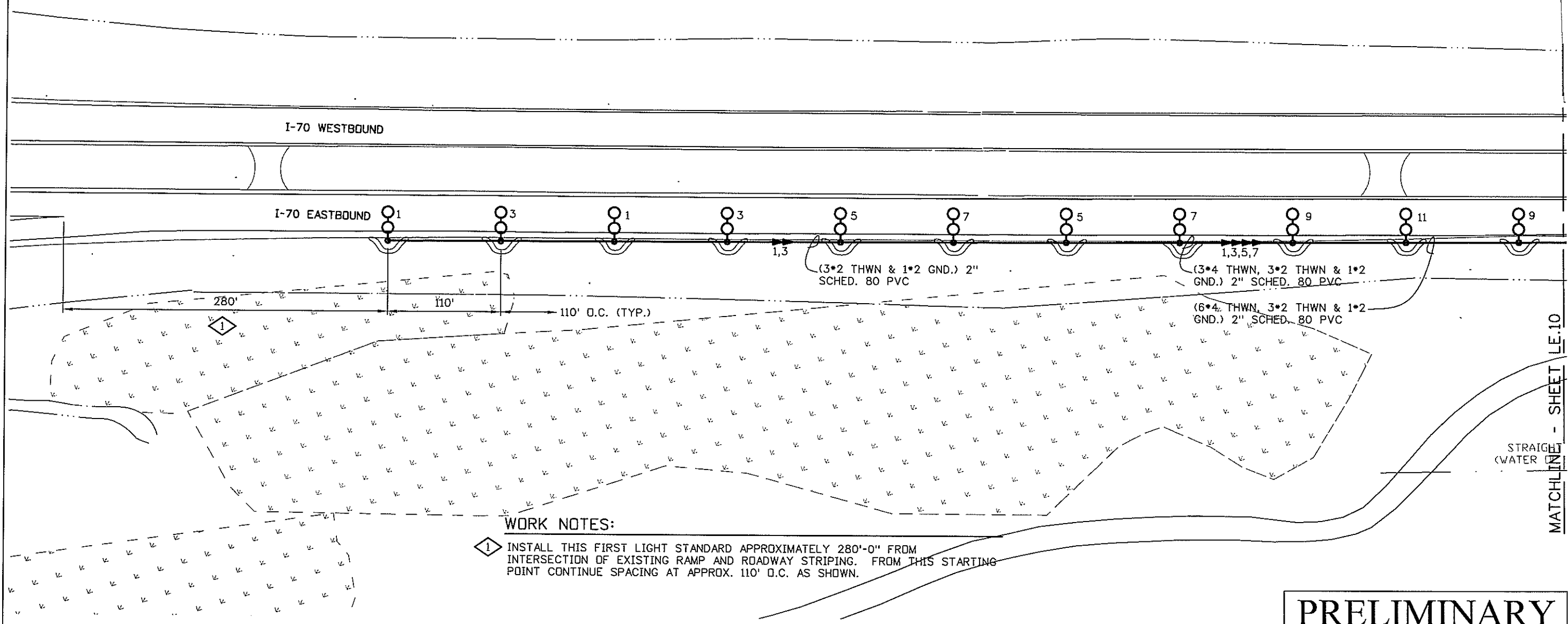
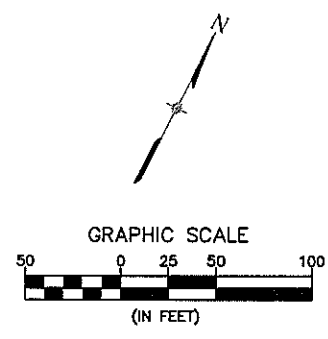
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LIGHTING PLAN & SWMP SITE MAP			
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Detailer:	JE	Numbers	
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	16701
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WORK NOTES:

- 1 INSTALL THIS FIRST LIGHT STANDARD APPROXIMATELY 280'-0" FROM INTERSECTION OF EXISTING RAMP AND ROADWAY STRIPING. FROM THIS STARTING POINT CONTINUE SPACING AT APPROX. 110' O.C. AS SHOWN.

PRELIMINARY

MP 205EB

CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING
1499 NAUTICAL COURT SOUTH STE. 102
BOULDER, CO 80501
303-440-7279

Computer File Information	
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Denver, CO 80237
Phone: (303) 221-7275
Fax: (303) 221-7276

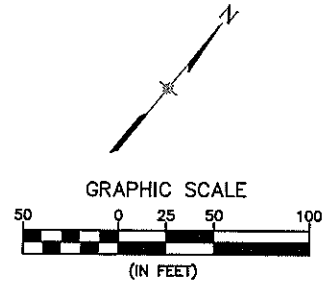
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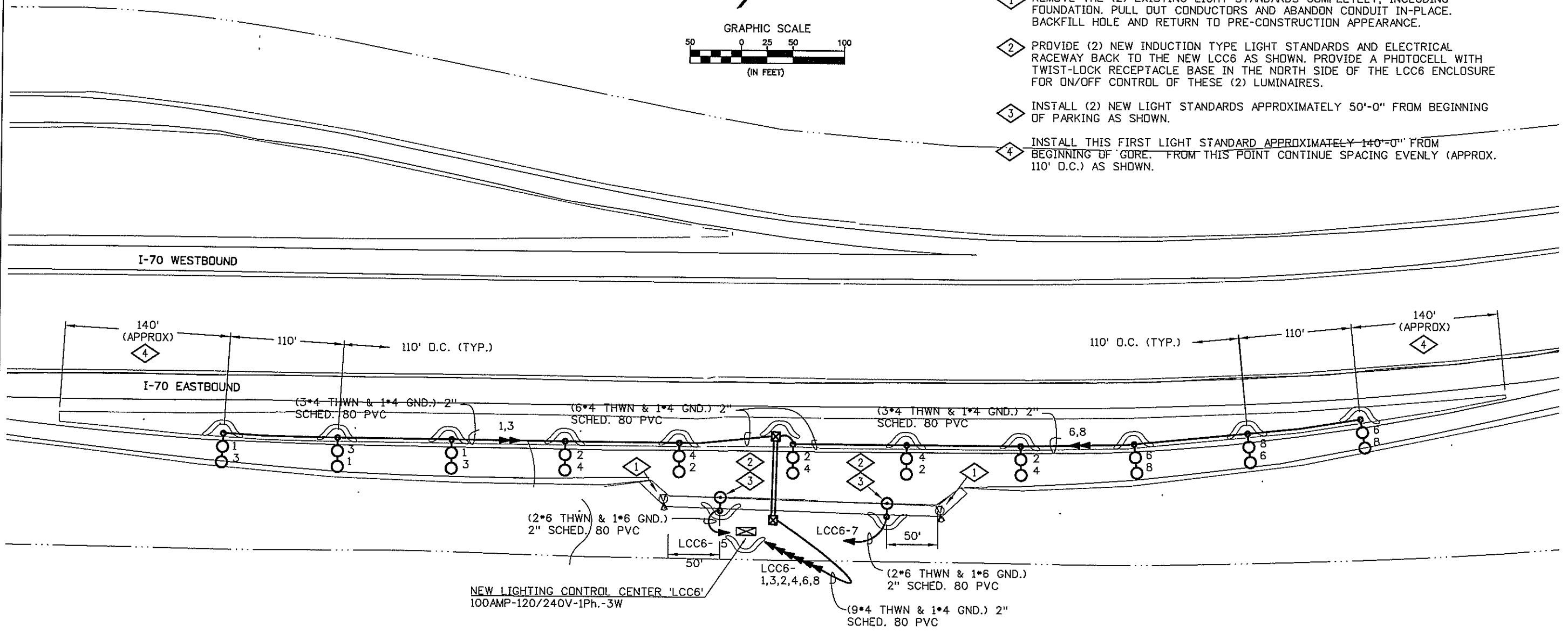
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MATCHLINE - SHEET LE-10



WORK NOTES:

- 1 REMOVE THE (2) EXISTING LIGHT STANDARDS COMPLETELY, INCLUDING FOUNDATION. PULL OUT CONDUCTORS AND ABANDON CONDUIT IN-PLACE. BACKFILL HOLE AND RETURN TO PRE-CONSTRUCTION APPEARANCE.
- 2 PROVIDE (2) NEW INDUCTION TYPE LIGHT STANDARDS AND ELECTRICAL RACEWAY BACK TO THE NEW LCC6 AS SHOWN. PROVIDE A PHOTOCELL WITH TWIST-LOCK RECEPTACLE BASE IN THE NORTH SIDE OF THE LCC6 ENCLOSURE FOR ON/OFF CONTROL OF THESE (2) LUMINAIRES.
- 3 INSTALL (2) NEW LIGHT STANDARDS APPROXIMATELY 50'-0" FROM BEGINNING OF PARKING AS SHOWN.
- 4 INSTALL THIS FIRST LIGHT STANDARD APPROXIMATELY 140'-0" FROM BEGINNING OF GORE. FROM THIS POINT CONTINUE SPACING EVENLY (APPROX. 110' D.C.) AS SHOWN.



PRELIMINARY

MP 203EB

CLANTON & ASSOCIATES
LIGHTING DESIGN AND ENGINEERING
6699 NAUTIGUS COURT SOUTH STE. 102
BOULDER, CO 80501
303-440-7229

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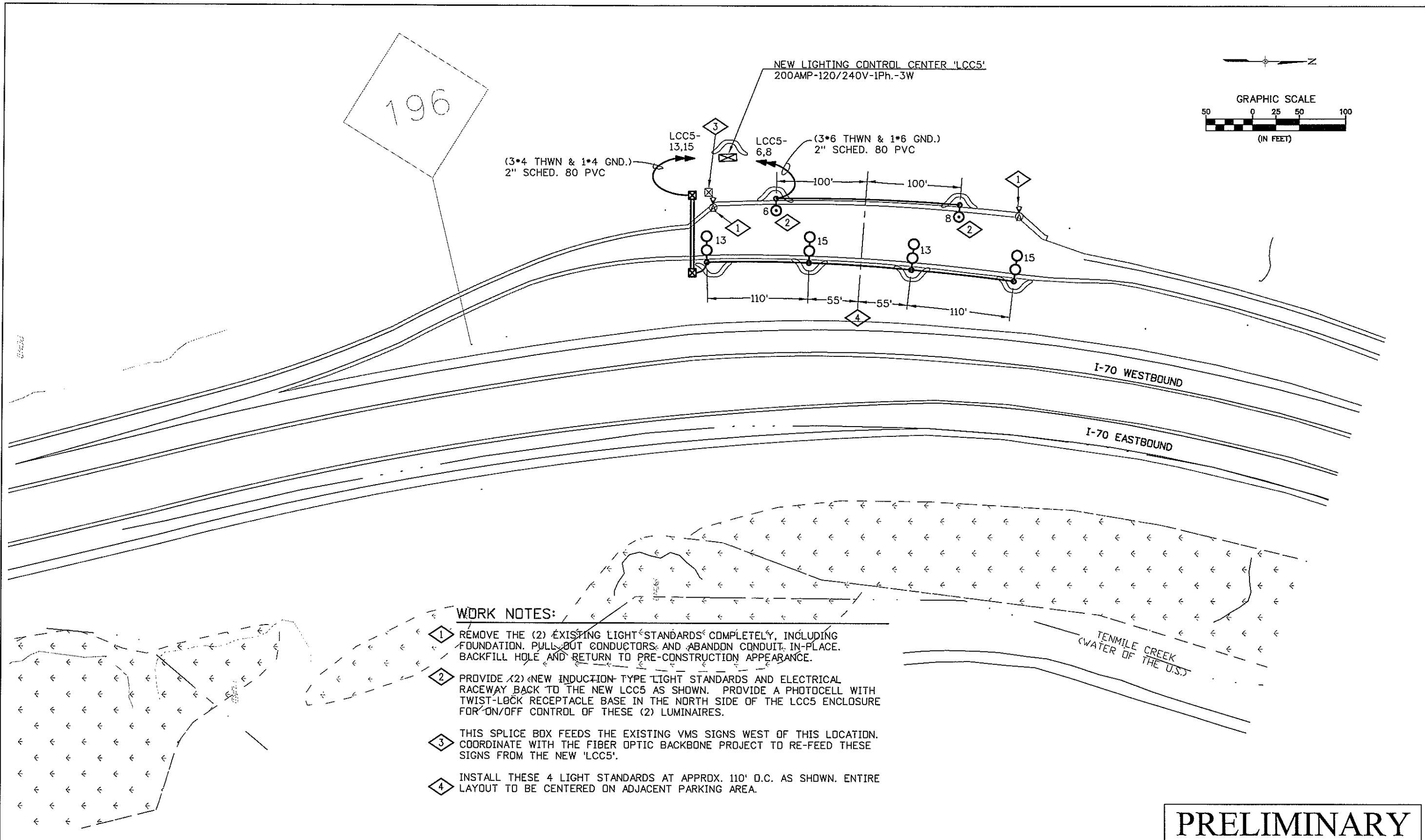
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PRELIMINARY

MP 196WB

CLANTON & ASSOCIATES
LIGHTING DESIGN AND ENGINEERING
1499 NAUTICAL CRAFT SOUTH STE. 102
BOULDER, CO 80501
303-440-7229

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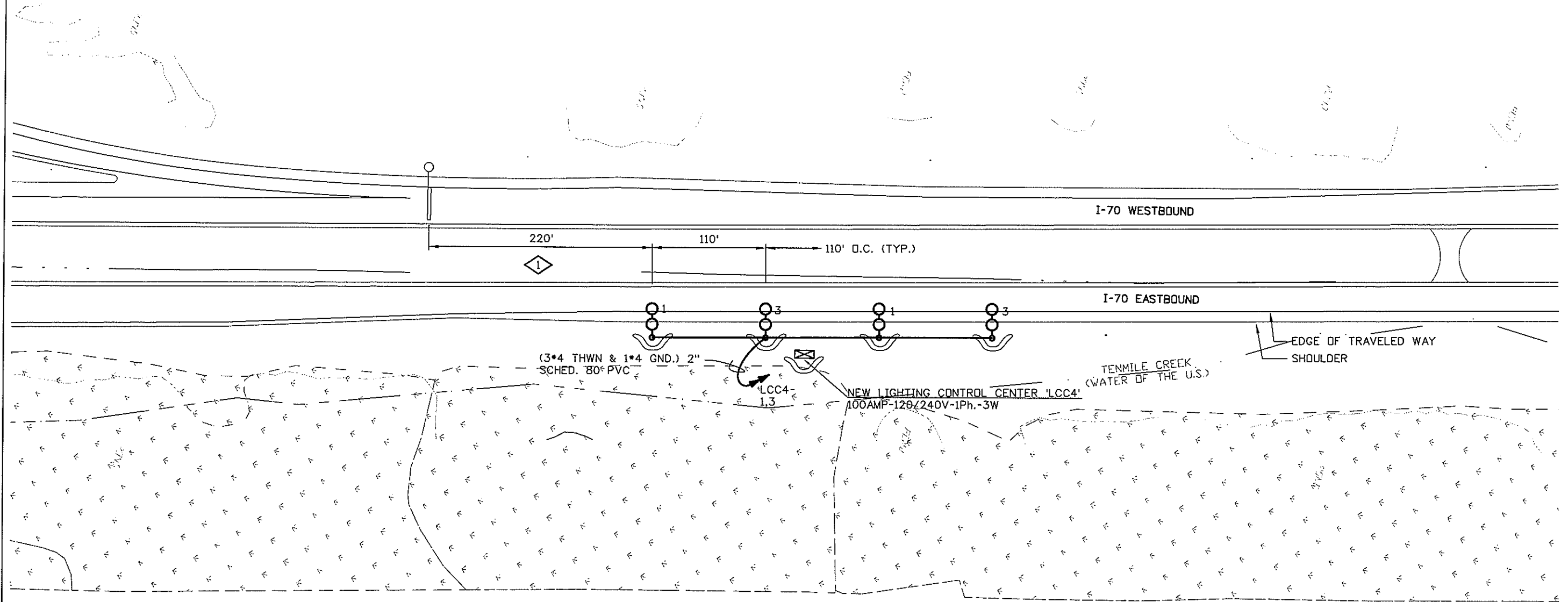
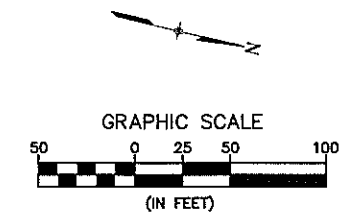
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WORK NOTES:

- 1 INSTALL THIS FIRST LIGHT STANDARD APPROXIMATELY 220'-0" FROM EXISTING SIGN OVER WESTBOUND LANES. FROM THIS STARTING POINT CONTINUE SPACING AT APPROX. 110' O.C. AS SHOWN.

PRELIMINARY

MP 195EB

CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING
 4699 NAUTILUS COURT SOUTH STE. 102
 BOULDER, CO 80501
 303-440-7229

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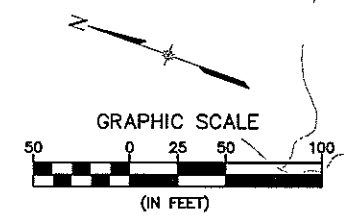
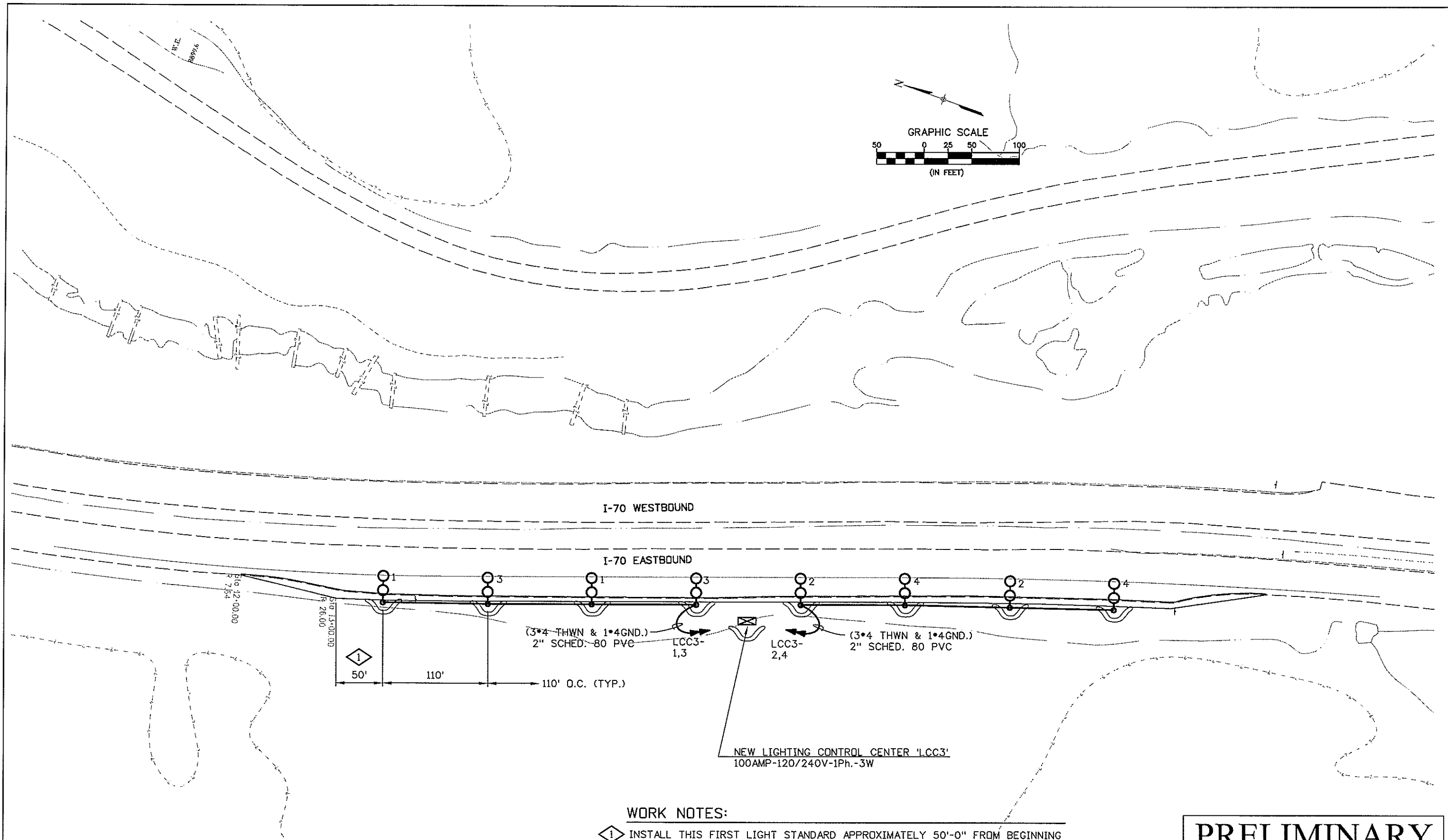
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WORK NOTES:

- 1 INSTALL THIS FIRST LIGHT STANDARD APPROXIMATELY 50'-0" FROM BEGINNING OF FULL-WIDTH STATION. FROM THIS STARTING POINT CONTINUE SPACING AT APPROX. 110' O.C. AS SHOWN.

PRELIMINARY

MP 183EB

CLANTON & ASSOCIATES
 LIGHTING DESIGN AND ENGINEERING
 6099 N. HAYFIELD COURT, SOUTH STE. 102
 BOULDER, CO 80504
 303-440-7229

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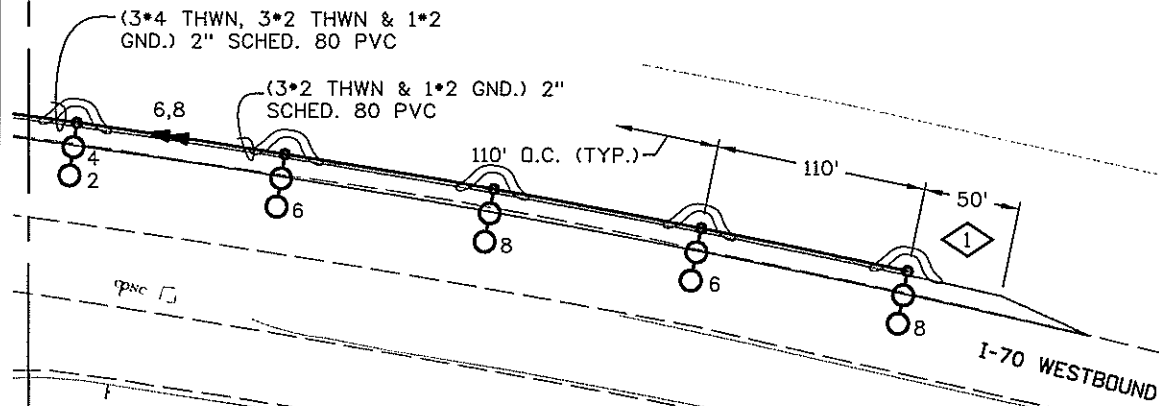
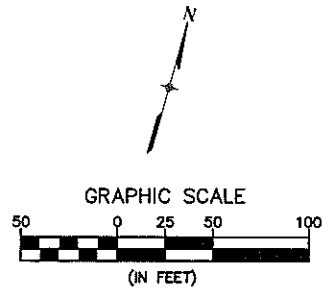
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MATCHLINE SHEET LE-04

WORK NOTES:

1 INSTALL THIS FIRST LIGHT STANDARD APPROXIMATELY 50'-0" FROM BEGINNING OF FULL-WIDTH STATION. FROM THIS STARTING POINT CONTINUE SPACING AT APPROX. 110' O.C. AS SHOWN.

PRELIMINARY

MP 177WB

CLANTON & ASSOCIATES
LIGHTING DESIGN AND ENGINEERING
4699 N. WILSON COURT SOUTH STE. 102
DENVER, CO 80551
303-630-7229

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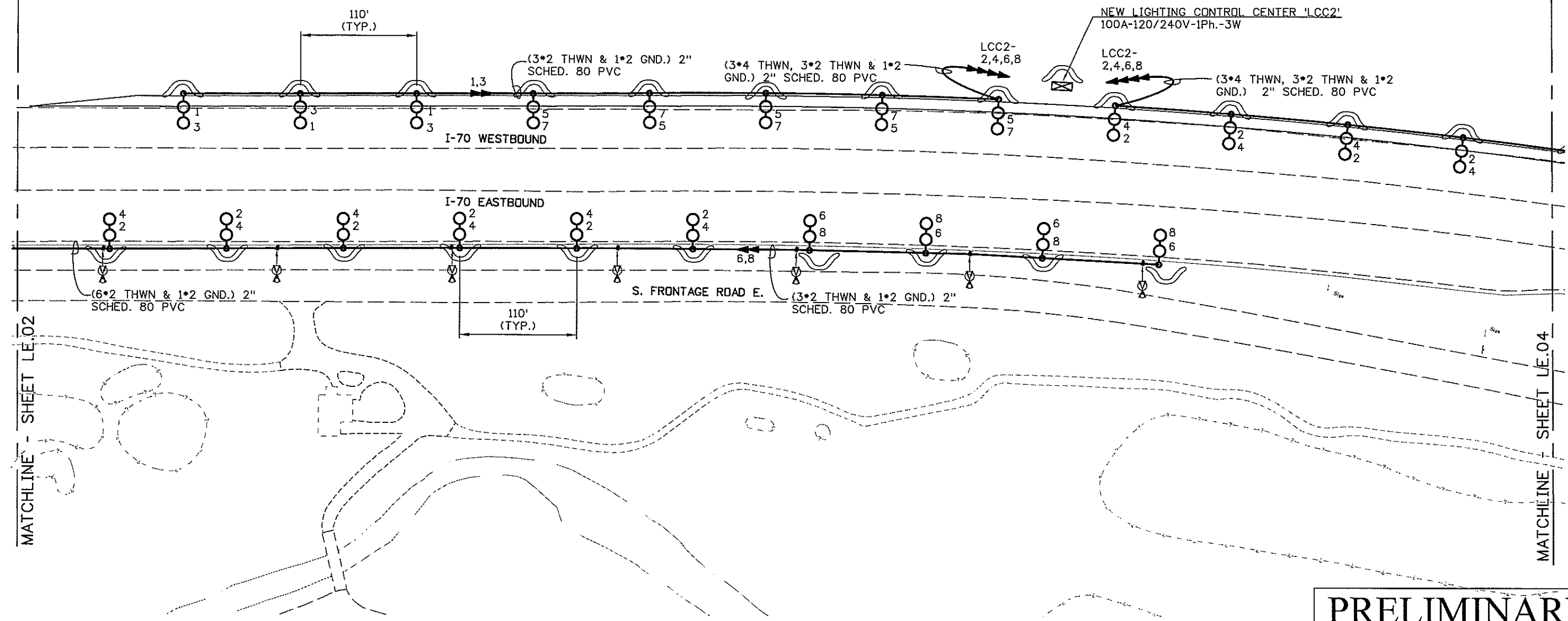
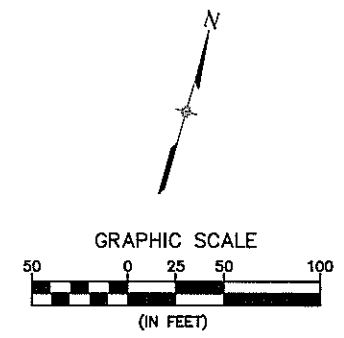
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PRELIMINARY

MP 177EB & WB

CLANTON & ASSOCIATES
 LIGHTING DESIGN AND ENGINEERING
 4699 N. JEFFERSON COURT SOUTH STE 102
 BOULDER, CO 80521
 303-440-7229

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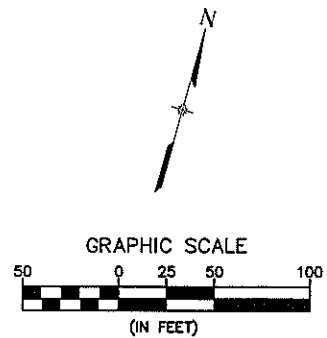
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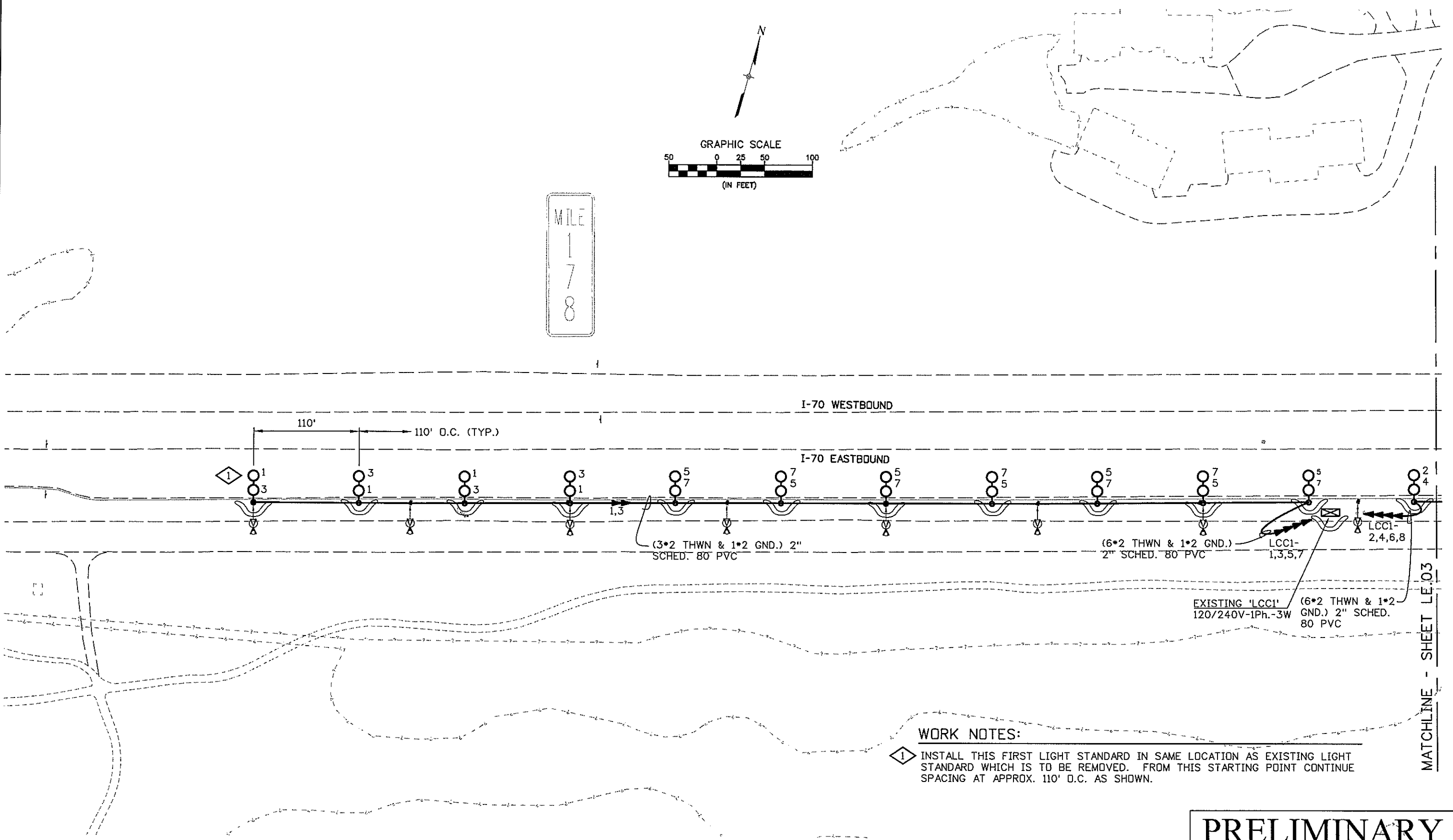
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MILE
1
7
8



WORK NOTES:

- 1 INSTALL THIS FIRST LIGHT STANDARD IN SAME LOCATION AS EXISTING LIGHT STANDARD WHICH IS TO BE REMOVED. FROM THIS STARTING POINT CONTINUE SPACING AT APPROX. 110' O.C. AS SHOWN.

PRELIMINARY

MP 177EB

CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING
4499 HAUPTLAGE COURT SOUTH STE. 102
ENGLEWOOD, CO 80151
303-530-7229

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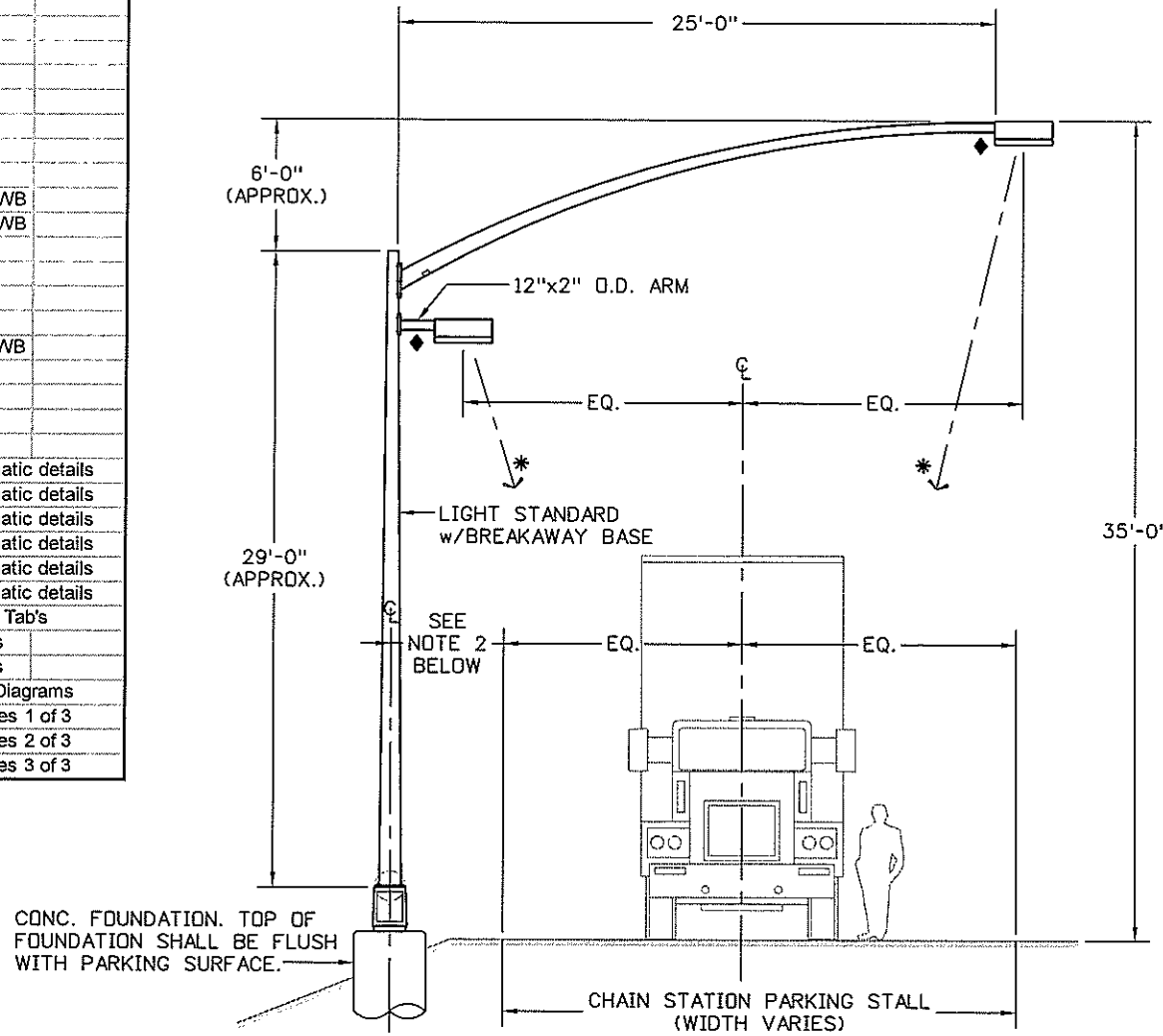
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- ◆ PROVIDE LUMINAIRE WITH HORIZONTAL SLIPFITTER FOR USE WITH 2" O.D. PIPE TENON.
- * LUMINAIRE OPTICS SHALL BE AIMED INWARD TOWARDS TRUCK.



A TYPICAL CHAIN STATION LIGHT STANDARD
 NOT TO SCALE TWIN HEAD ASSEMBLY

- INSTALLATION NOTES:**
1. ALL STEEL COMPONENTS FOR LIGHTING ASSEMBLY SHALL BE FURNISHED BY THE SAME MANUFACTURER.
 2. LIGHT STANDARD SETBACK WILL VARY PER SITE CONDITIONS. TWIN LUMINAIRES ON MAST ARM ARE INTENDED TO BE CENTERED OVER TRUCK PARKING LANE BELOW AND SPACED AS SHOWN ON PLANS. PARKING LANE SHALL BE DETERMINED BY STRIPING OR VERIFIED BY FIELD ENGINEER.
 3. SINGLE HEAD ASSEMBLIES SHALL BE SET BACK 3'-8" FROM BACK OF GUARDRAIL OR EDGE OF ASPHALT TO THE CENTERLINE OF THE FOUNDATION.

TABULATION OF APPROXIMATE QUANTITIES

ITEM NUMBER	LONG DESCRIPTION	UNIT	QUANTITY	NOTES
202-00700	REMOVAL OF LIGHT STANDARD	EA	19	
613-00125	1-1/4 INCH ELECTRICAL CONDUIT	LF	250	
613-00306	3 INCH ELECTRICAL CONDUIT (Bored)	LF	700	
613-05000	DIRECT-BURIAL CABLE	LF	560	
613-01200	2 INCH ELECTRICAL CONDUIT (Plastic)	LF	25,800	
613-10010	WIRING (Special)	LS	1	
613-16020	LUMINAIRE (Special) INDUCTION (165 Watt)	EA	4	(120V)
613-34300	LIGHT STANDARD METAL (30 Foot)	EA	22	
613-34352	LIGHT STANDARD METAL (35 Foot) (Special) (2 Arm)	EA	203	
613-40010	LIGHT STANDARD FOUNDATION	EA	22	
613-40012	LIGHT STANDARD FOUNDATION (Special)	EA	203	
613-50100	LIGHTING CONTROL CENTER	EA	17	1
613-70400	LUMINAIRE HIGH PRESSURE SODIUM (400 Watt)	EA	5	(480V)
613-75150	LUMINAIRE METAL HALIDE (150 Watt)	EA	405	(120V)
		EA	18	(277V)

TABULATION NOTES:

1. LIGHTING CONTROL CENTER TO BE 'CABINET' TYPE PER CDOT STANDARD M-613-1 WITH THE EXCEPTION OF A NEMA 4 INSTEAD OF A NEMA 3R ENCLOSURE.

LEGEND:

- ⊗ (1) EXISTING LIGHT STANDARD AND LUMINAIRE TO BE REMOVED.
- ⊗ (1) 165W INDUCTION (120V), FULL CUTOFF ROADWAY LUMINAIRE INSTALLED ON A 29' POLE. SUBSCRIPT DENOTES CIRCUIT NUMBER.
- ⊗ (1) 150W METAL HALIDE (120V), FULL CUTOFF ROADWAY LUMINAIRE INSTALLED ON A 29' POLE. SUBSCRIPT DENOTES CIRCUIT NUMBER.
- ⊗ (2) 150W METAL HALIDE (120V or 277V), FULL CUTOFF ROADWAY LUMINAIRES AND A 29' POLE. ONE LUMINAIRE INSTALLED ON A 25'-0" MAST ARM AND THE OTHER INSTALLED ON 12" LONG x 2" O.D. PIPE TENON. SUBSCRIPT DENOTES CIRCUIT NUMBER.
- ⊗ (1) 400W HPS (480V), FULL CUTOFF ROADWAY LUMINAIRE INSTALLED ON A 30' POLE. SUBSCRIPT DENOTES CIRCUIT NUMBER.
- 24" DEEP TRENCH, BURY ELECTRICAL RACEWAY. RACEWAY TO BE (3*4 THWN & 1*4 GND) IN 2" HDPE CONDUIT > 100' (OR SCHEDULE 80 PVC FOR <100' MAY BE USED). UNLESS OTHERWISE NOTED (U.O.N.)
- LCCx NEW LIGHTING CONTROL CENTER PER CDOT STANDARD M-613-1 WITH THE EXCEPTION OF NEMA 4. SUBSCRIPT DENOTES LCC DESIGNATION.
- ← CIRCUIT HOMERUN OR CIRCUIT BREAK, NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS.
- ⊗ CAST POLYMER CONCRETE TYPE FLUSH-TO-GRADE SPLICE BOX WITH TRAFFIC RATED COVER. COVER TO READ: "LIGHTING".
- ⊗ (1) 3" HDPE (SDR 13.5) SLEEVE UNDER ROADWAY WITH SPLICE BOXES AT EACH END FOR CHAIN STATION LIGHTING. COVER TO READ "LIGHTING".
- ⌒ EROSION LOG

PRELIMINARY

CLANTON & ASSOCIATES LIGHTING DESIGN AND ENGINEERING
 1499 NORTHERN COURT SOUTH STE. 102
 BOULDER, CO 80501
 303-440-7229

Computer File Information

Creation Date: February 11, 2008	Initials: GF
Last Modification Date: March 25, 2008	Initials: JE
Full Path: Z:\VAIL CHAIN STATIONS\CURRNET\	
Drawing File Name: _LTPL-Plan_Sheets.dwg	
Scale: REFER TO BAR SCALE	Units: ENGLISH

Index of Revisions

DOT REGION 1
 18500 East Colfax
 Aurora, CO 80011
 Phone: (303) 365-7340
 FAX: (303) 365-7343

PBSJ
 4601 DTC Blvd.
 Suite 700
 Denver, CO 80237
 Phone: (303) 221-7275
 Fax: (303) 221-7276

REGION I DW

As Constructed

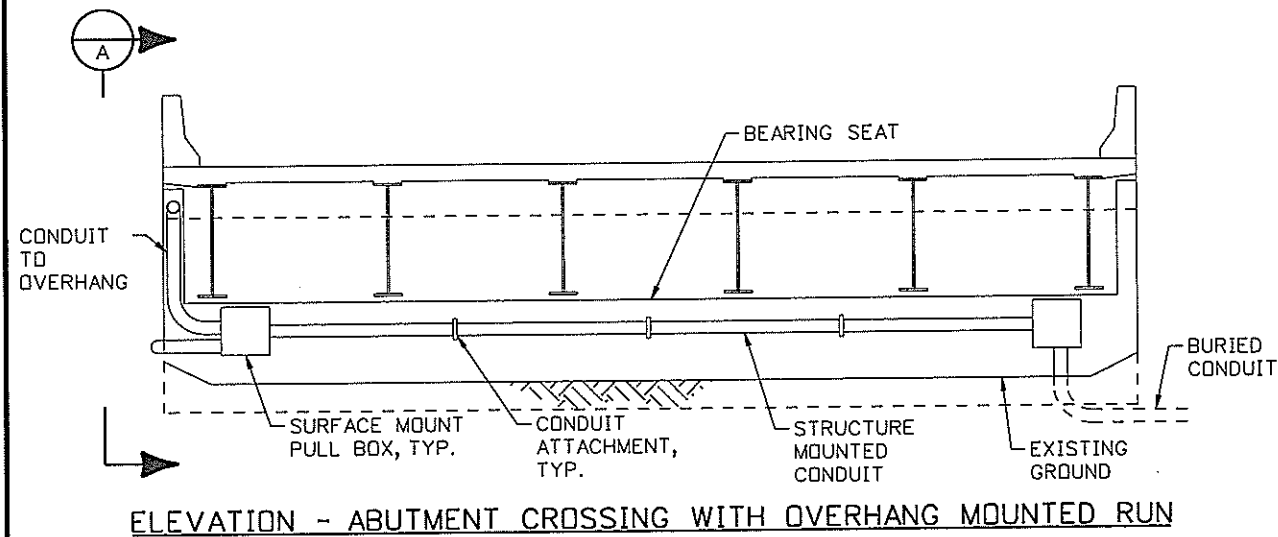
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LIGHTING PLAN TABULATIONS AND DETAIL

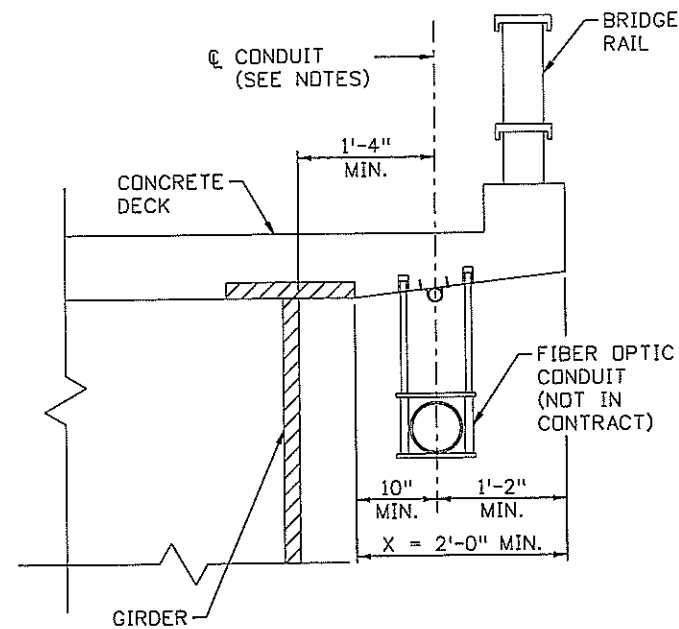
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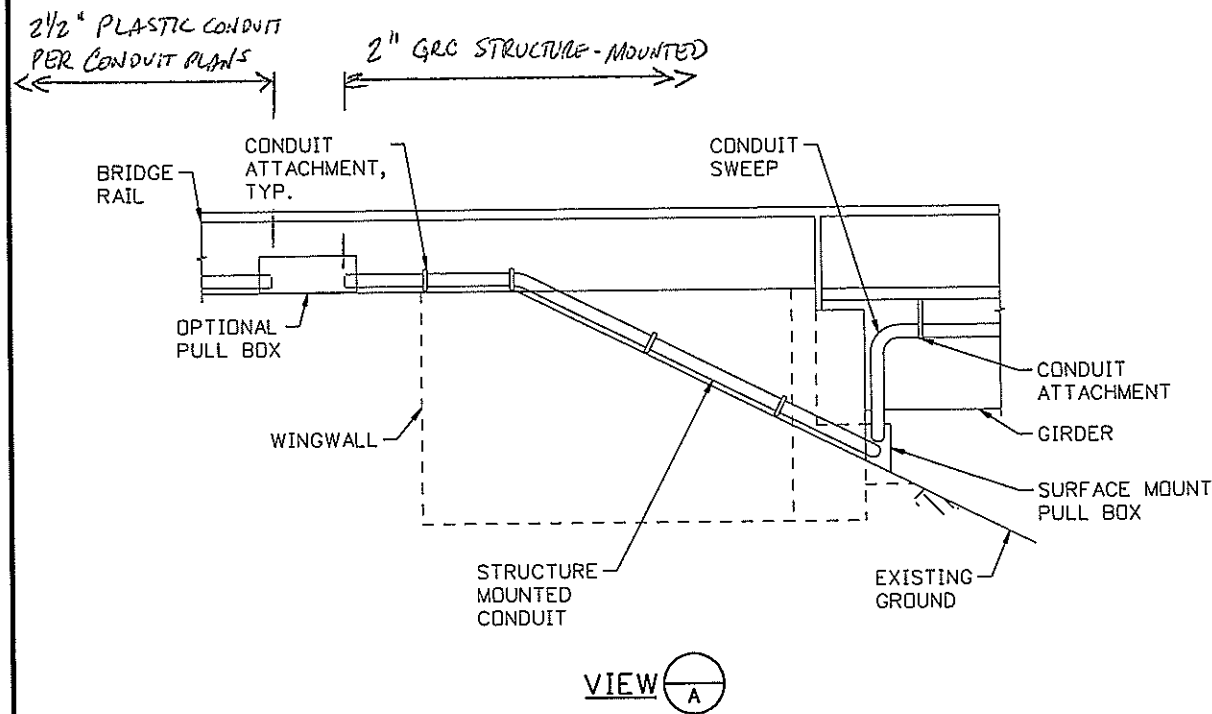
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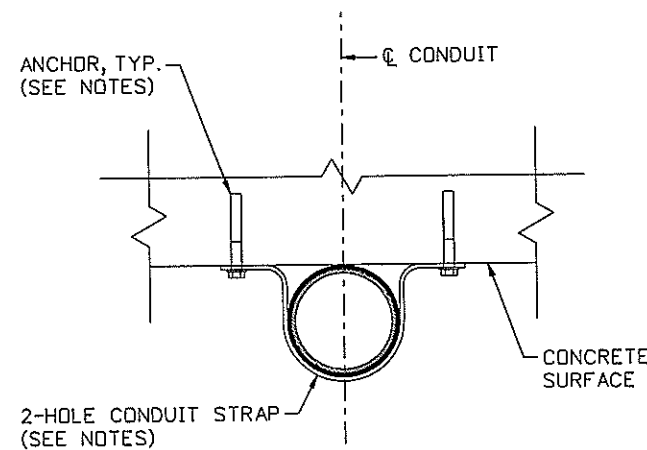
ELEVATION - ABUTMENT CROSSING WITH OVERHANG MOUNTED RUN



CONDUIT MOUNTING DETAIL



VIEW A

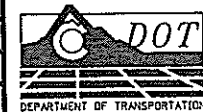


CONDUIT ATTACHMENT DETAIL

NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2005 COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL EXPOSED SWEEPS SHALL BE GRC CONDUIT.
3. SURFACE MOUNTED PULL BOXES AND J-BOXES SHALL BE MECHANICALLY FASTENED TO STRUCTURES PER THE MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER RECOMMENDATIONS DO NOT SPECIFY ANCHOR TYPE, DROP-IN ANCHORS SHALL BE USED.
4. ACTUAL MOUNTING LOCATION OF CONDUITS, PULL BOXES, AND J-BOXES MAY VARY DUE TO PRESENCE OF EXISTING CONDUITS, LIGHTING SUPPORTS, OR OTHER OBSTACLES. THE CONTRACTOR SHALL FIELD VERIFY ALL MOUNTING LOCATIONS PRIOR TO INSTALLATION.
5. ALL PULL BOX LOCATIONS SHALL BE APPROVED PRIOR TO INSTALLATION. PULL BOX INSTALLATION IS OPTIONAL ON BRIDGES THAT ARE LESS THAN 1000 LF AND HAVE LESS THAN 360 DEGREES OF BENDS. 500
6. EXPANSION JOINTS SHALL BE PROVIDED ON ALL BRIDGE STRUCTURES. REFER TO THE EXPANSION JOINT DETAILS IN THESE PLANS FOR MORE INFORMATION.
7. ALL WORK TO BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE CODES OR REQUIREMENTS OF ANY REGULATING GOVERNMENTAL AGENCY OR THE RIGHT OF WAY GRANTOR.
8. STRUCTURE MOUNTED CONDUIT SHALL BE 2-INCH DIA. GALVANIZED RIGID CONDUIT.
9. 2-HOLE CONDUIT STRAP SHALL BE GALVANIZED OR ZINC PLATED. SPACING OF CONDUIT STRAPS SHALL BE DETERMINED BY THE CONTRACTOR AND SHALL NOT EXCEED 10 FEET.
10. ANCHOR SIZE SHALL BE SELECTED BY THE CONTRACTOR. *AND SUBMITTE TO THE ENGINEER FOR APPROVAL*
11. ANCHOR SHALL BE EXPANSION BOLT OR SLEEVE ANCHOR. ANCHORS SHALL BE GALVANIZED OR ZINC PLATED TO MATCH 2-HOLE CONDUIT STRAP. ALTERNATE ANCHORS MAY BE CONSIDERED AND MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
12. A REBAR LOCATOR SHALL BE USED BEFORE DRILLING OR CORING THROUGH EXISTING CONCRETE. IF STEEL IS ENCOUNTERED WHILE DRILLING, THE HOLE WILL BE ABORTED AND REPAIRED WITH NON-SHRINK GROUT.
13. ALL UTILITIES ARE NOT SHOWN ON THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES.
14. THE CONTRACTOR MAY SUBMIT ALTERNATE ATTACHMENT DETAILS THAT ARE EQUAL TO OR BETTER THAN THOSE PROVIDED IN THESE PLANS TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONNECTION DETAILS ARE CORROSION COMPATIBLE IN MATERIAL AND SIZE.
16. THE CONTRACTOR SHALL VERIFY ATTACHMENT TYPES IN THE FIELD AND NOTIFY THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
17. THE FOLLOWING ARE STANDARD ABBREVIATIONS:
 I.D. = INSIDE DIAMETER
 O.D. = OUTSIDE DIAMETER
 CBC = CONCRETE BOX CULVERT
 GRC = GALVANIZED RIGID CONDUIT
18. THE EXISTING BRIDGE DETAILS SHOWN IN THESE PLANS ARE APPROXIMATE AND MAY NOT REFLECT THE EXACT CONDITIONS OF ALL STRUCTURES. IF CONDITIONS ARE ENCOUNTERED IN THE FIELD THAT DO NOT PERMIT THE CONDUIT TO BE ATTACHED IN ACCORDANCE WITH THESE DETAILS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ATTACHMENT AT THAT LOCATION
19. PAYMENT FOR STRUCTURE MOUNTED CONDUIT SHALL BE UNDER ITEM 613-00200, 2 INCH ELECTRICAL CONDUIT, AND SHALL INCLUDE GRC CONDUIT, CONDUIT ATTACHMENT, PULL BOXES, AND ALL LABOR AND MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE CONDUIT.

Computer File Information		Index of Revisions		As Constructed		STRUCTURE MOUNTED ELECTRICAL CONDUIT		Project No./Code	
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Last Modification Date: 03/18/08	Initials: ERS			Revised:		Detailer:	ERS	Numbers	
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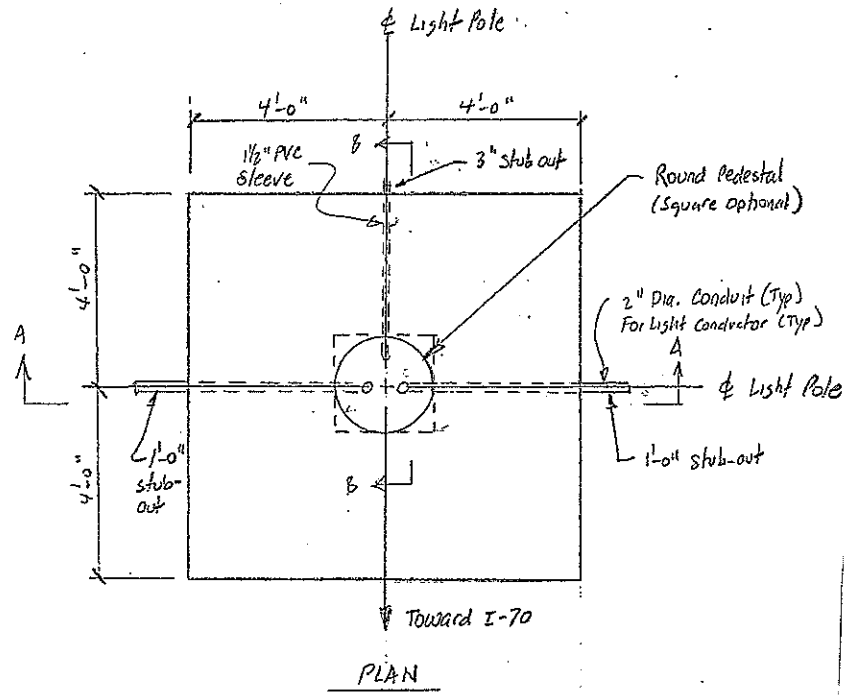


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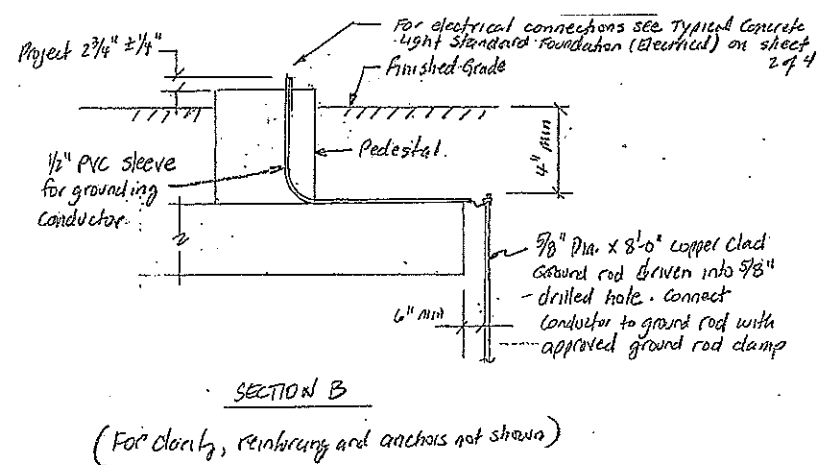
Region 1
18500 East Colfax
Aurora, CO 80011
Phone: (303) 365-7340
FAX: (303) 365-7343



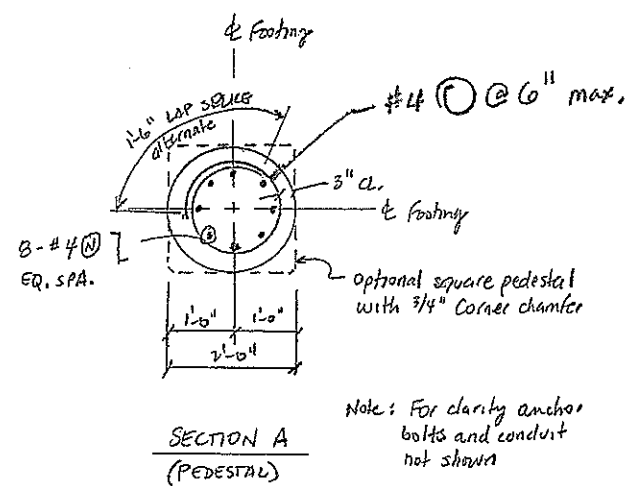
4601 DTC Blvd.
Suite 700
Denver, CO 80237
Phone: (303) 221-7275
Fax: (303) 221-7276



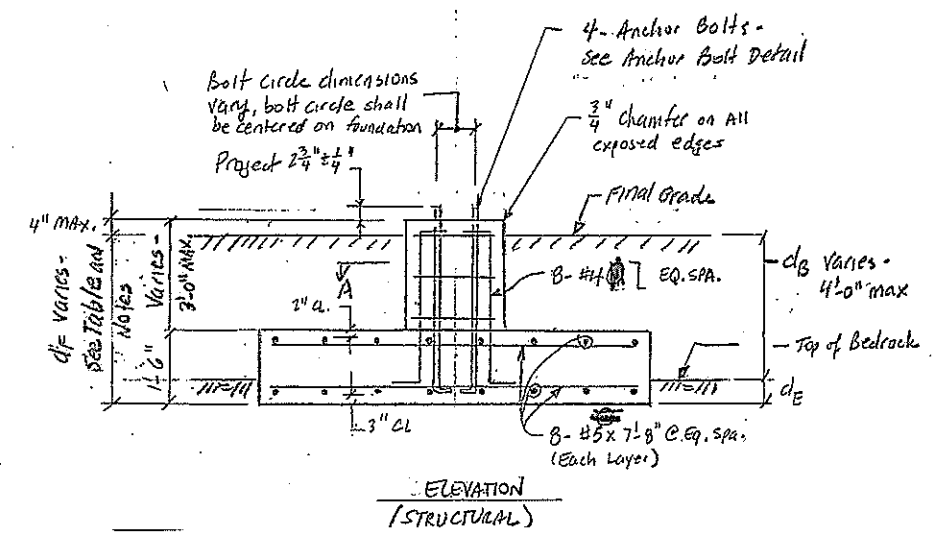
ALTERNATIVE LIGHT STANDARD FOUNDATION



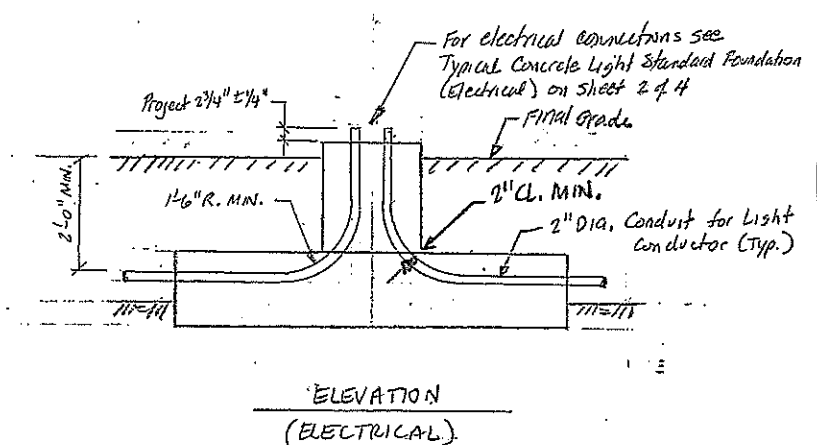
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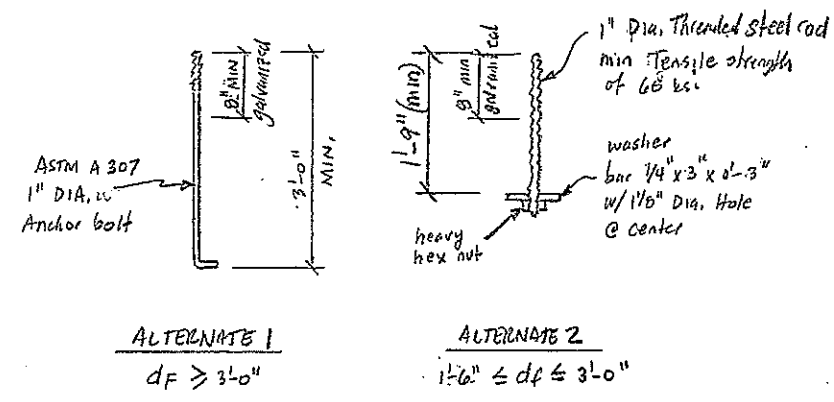
Note: For clarity anchor bolts and conduit not shown



ELEVATION (STRUCTURAL)



ELEVATION (ELECTRICAL)

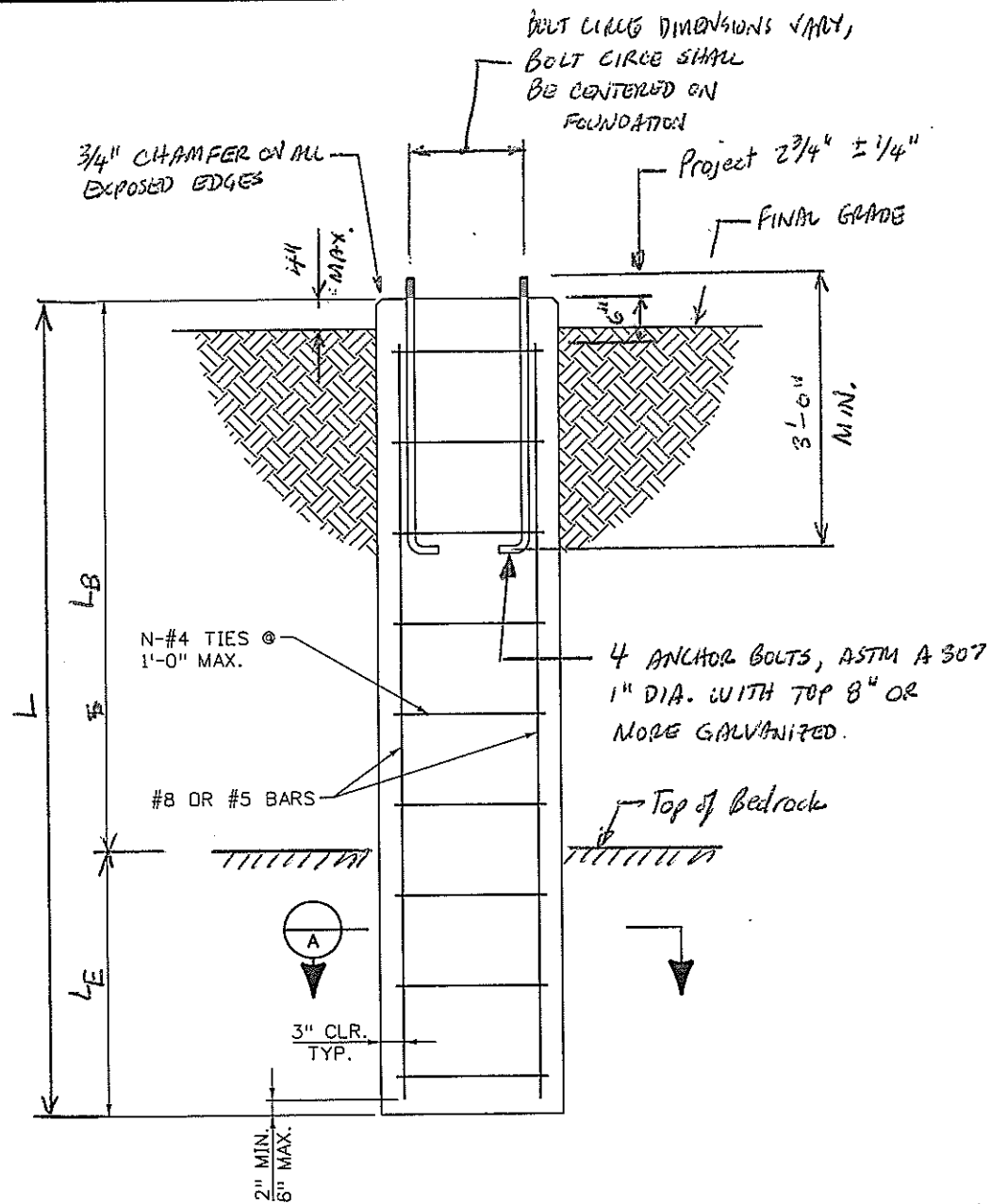


ANCHOR BOLT DETAIL (SPREAD FOOTING ONLY)

SPREAD FOOTING NOTES:

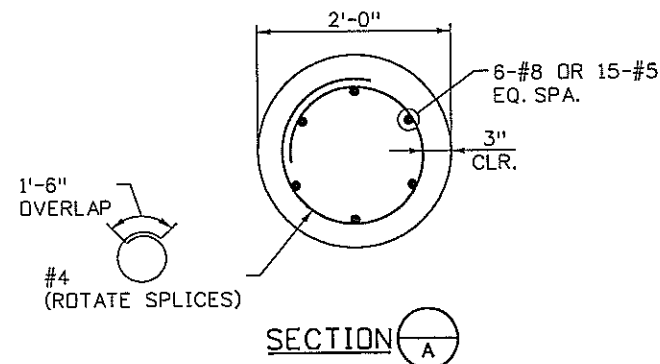
1. A spread footing alternative is provided for use where shot rock or bedrock is encountered within 4'-0" of the finished grade. Spread footing use will only be allowed with approval from the Engineer.
2. The presence and location of bedrock shall be approved by the Engineer prior to constructing footing.
3. Footings have been designed for a maximum ultimate rock bearing capacity of 30,000 psf with the following safety factors:
 - SF = 3.0 BEARING RESISTANCE
 - SF = 3.0 FLEXURAL RESISTANCE
 - SF = 1.25 TORSIONAL RESISTANCE
4. CONCRETE FOR SPREAD FOOTINGS AND PEDESTALS SHALL BE CLASS D, $f'_c = 4,500$ psi.
5. All concrete shall reach the seven day predicted strength prior to installing the light standard.
6. All concrete shall be cast-in-place.
7. Reinforcing steel shall be grade 60.
8. THE FOOTING DEPTH SHALL BE DETERMINED AS SHOWN IN THE FOLLOWING TABLE. FOOTING DEPTH AND EMBEDMENT IN BEDROCK SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTING FOOTING.

SPREAD FOOTING DEPTH DETERMINATION TABLE			
SUPPORT STRATUM	DEPTH TO BEDROCK	DEPTH OF FOOTING	BEDROCK EMBEDMENT
	$d_B \leq 1'-0"$	$d_F = 2'-0"$	$d_E = 1'-0" \text{ min}$
BEDROCK	$1'-0" \leq d_B < 3'-0"$	$d_F = d_B + 1'-0"$	$d_E = 1'-0"$
	$d_B \geq 3'-0"$	$d_F = d_B + 6"$	$d_E = 6"$
SHOT ROCK	N/A	$d_F = 3'-0"$	N/A



TYPICAL CONCRETE LIGHT STANDARD FOUNDATION (STRUCTURAL)

(FOR DETAILS NOT SHOWN, SEE "TYPICAL CONCRETE LIGHT STANDARD FOUNDATION", SHEET 2 OF 3)



FOUNDATION NOTES

1. CONCRETE FOR DRILLED FOUNDATIONS SHALL BE AIR ENTRAINED CLASS BZ CONCRETE IN ACCORDANCE WITH SECTION 503 OF THE STANDARD SPECIFICATIONS.
2. DRILLED FOUNDATION CONCRETE SHALL REACH THE SEVEN DAY PREDICTED STRENGTH PRIOR TO INSTALLING THE LIGHT STANDARD.
3. DRILLED FOUNDATIONS SHALL BE PLACED AGAINST UNDISTURBED EARTH. PRECAST CONCRETE FOUNDATIONS ARE NOT ALLOWED.
4. REINFORCING STEEL FOR FOUNDATIONS SHALL BE GRADE 60.
5. ~~SIX DRILLED FOUNDATION LENGTHS ARE PROVIDED FOR THE THREE SETS OF SOIL PROPERTIES.~~ THE CONTRACTOR SHALL OBTAIN SOIL SAMPLES PRIOR TO FOUNDATION CONSTRUCTION TO VERIFY THAT AS-DESIGNED SOIL PROPERTIES ADEQUATELY MATCH THE IN-SITU SOIL PROPERTIES. THE CONTRACTOR SHALL FORWARD COPIES OF THE SOIL DATA TO THE ENGINEER PRIOR TO FOUNDATION CONSTRUCTION.
6. THE CONTRACTOR SHALL SUBMIT THE PROPOSED DRILLED FOUNDATION LENGTH TO THE ENGINEER FOR APPROVAL PRIOR TO DRILLING. DRILLING SHALL NOT COMMENCE WITHOUT APPROVAL OF THE DRILLED FOUNDATION FROM THE ENGINEER. *CONSTRUCTING SHAFT CONSTRUCTION*
7. THE CONTRACTOR SHALL STOP FOUNDATION INSTALLATION AND CONTACT THE ENGINEER IF ANY OF THE FOLLOWING SOIL CONDITIONS ARE ENCOUNTERED DURING DRILLING:
 - (A) THE SOIL HAS A HIGH ORGANIC CONTENT OR CONSISTS OF SATURATED SILT AND CLAY
 - (B) THE SITE WILL NOT SUPPORT THE WEIGHT OF THE DRILLING RIG
 - (C) THE FOUNDATION SOILS ARE NOT HOMOGENOUS
 - (D) FIRM BEDROCK IS ENCOUNTERED
8. DRILLED FOUNDATIONS HAVE BEEN DESIGNED FOR THE FOLLOWING SAFETY FACTORS:
 SF = 3.0 FLEXURAL RESISTANCE
 SF = 1.25 TORSIONAL RESISTANCE
9. FOR ALTERNATE SPREAD FOOTING FOUNDATION SEE SHEET 4 OF 4.

THE DRILLED SHAFT LENGTH SHALL BE DETERMINED USING THE DRILLED FOUNDATION LENGTH TABLE AFTER THE LOCATION AND QUALITY OF BEDROCK HAS BEEN DETERMINED

L _B (Depth to Bedrock)	L _E (Embedment in Bedrock)	L _r (Required shaft length)
L _B ≤ 5'-0"	4'-0"	L _B + 4'-0"
L _B > 5'-0"	9'-0" - L _B	9'-0"

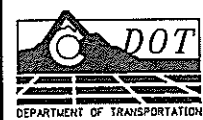
DENSITY	COHESION	L	NO. OF TIES	N
90 PCF	500 PSF	10'	10	
110 PCF	750 PSF	9'	9	
130 PCF	1000 PSF	6'	6	

5. DRILLED FOUNDATION LENGTHS ARE PROVIDED FOR THE FOLLOWING SOIL PROPERTIES:
 DENSITY γ = 110 PCF (COHESIONLESS SOIL)
 ϕ ANGLE = 30° (COHESIONLESS SOIL)
 DENSITY γ = 110 PCF (COHESIVE SOIL)
 COHESION C = 750 PSF (COHESIVE SOIL)
 COHESION C = 4000 PSF (WEATHERED ROCK)
 K_H = 1000 PCF (WEATHERED ROCK)

GENERAL NOTES

1. FOR GENERAL NOTES SEE SHEET 1 OF 3.
2. FOR ELECTRICAL DETAILS SEE SHEETS 1 AND 2 OF 3 AND CONDUIT
3. FOR DESIGN CRITERIA SEE SHEET 1 OF 3

Computer File Information		Index of Revisions		As Constructed		SPECIAL LIGHT STANDARD DETAILS CHAIN STATIONS (3 OF 4)		Project No./Code	
Creation Date: 02/22/08	Initials: ERS			No. Revisions:		Designer: AGW	Structure	IM 070A-003	
Last Modification Date: 02/22/08	Initials: ERS			Revised:		Detailer: ERS	Numbers	16701	
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Region I
18500 East Colfax
Aurora, CO 80011
Phone: (303) 365-7340
FAX: (303) 365-7343



4601 DTC Blvd.
Suite 700
Denver, CO 80237
Phone: (303) 221-7275
Fax: (303) 221-7276

REGION I DW

ALL CONDUCTORS SHALL BE SIZED IN CONFORMANCE WITH N.E.C. REQUIREMENTS IMSA 19-1 3 CONDUCTOR #14 AWG MINIMUM

IN-LINE FUSE HOLDERS AND FUSES



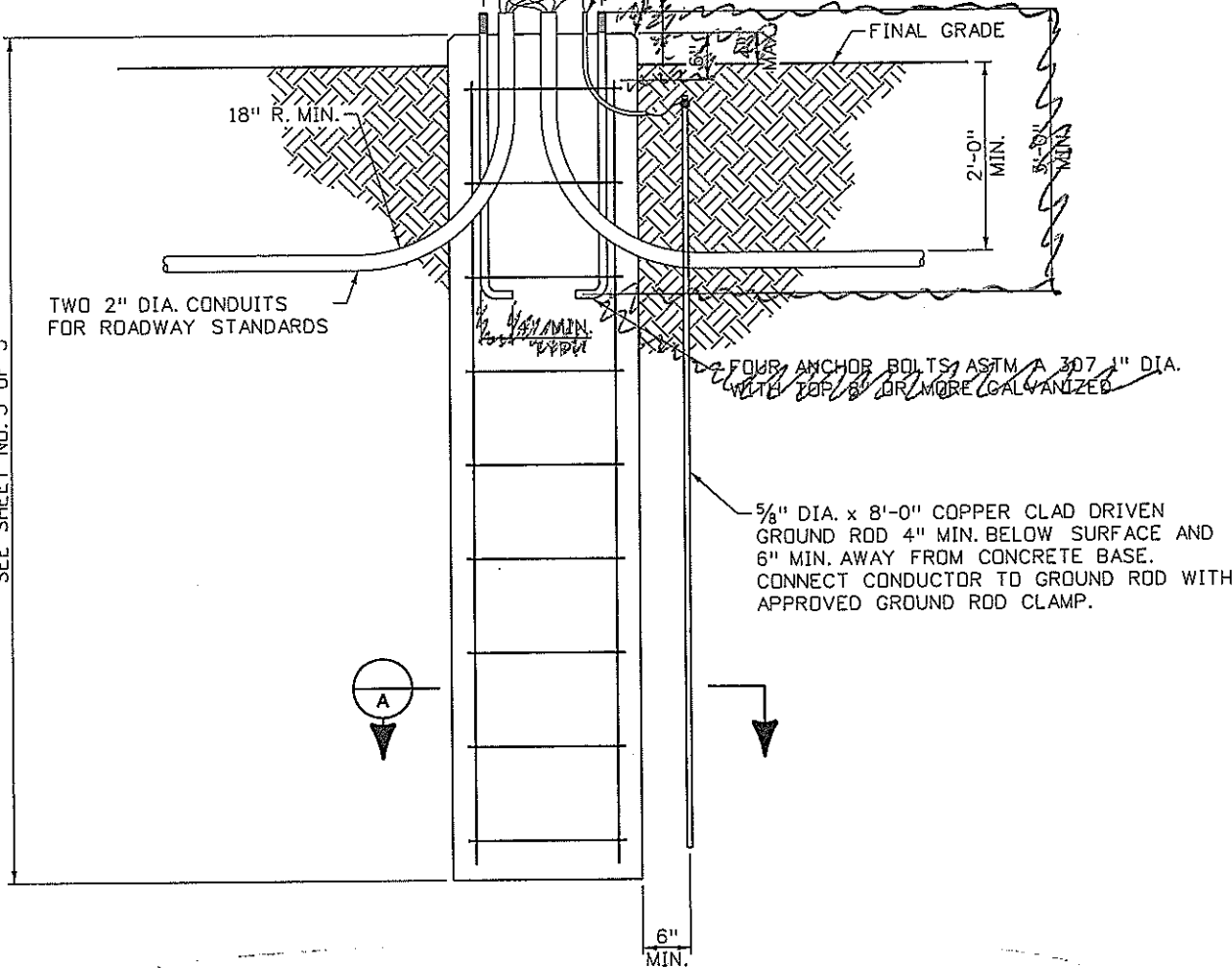
ACCEPTABLE CONNECTOR
NOTE: WIRE NUTS AND SPLIT BOLTS ARE NOT ACCEPTABLE

BOLT CIRCLE DIMENSIONS VARY, BOLT CIRCLE SHALL BE CENTERED ON FOUNDATION

BOND ONE #6 SOFT DRAWN BARE COPPER GROUND WIRE FROM GROUNDING LUG AT BASE OF POLE TO GROUND ROD

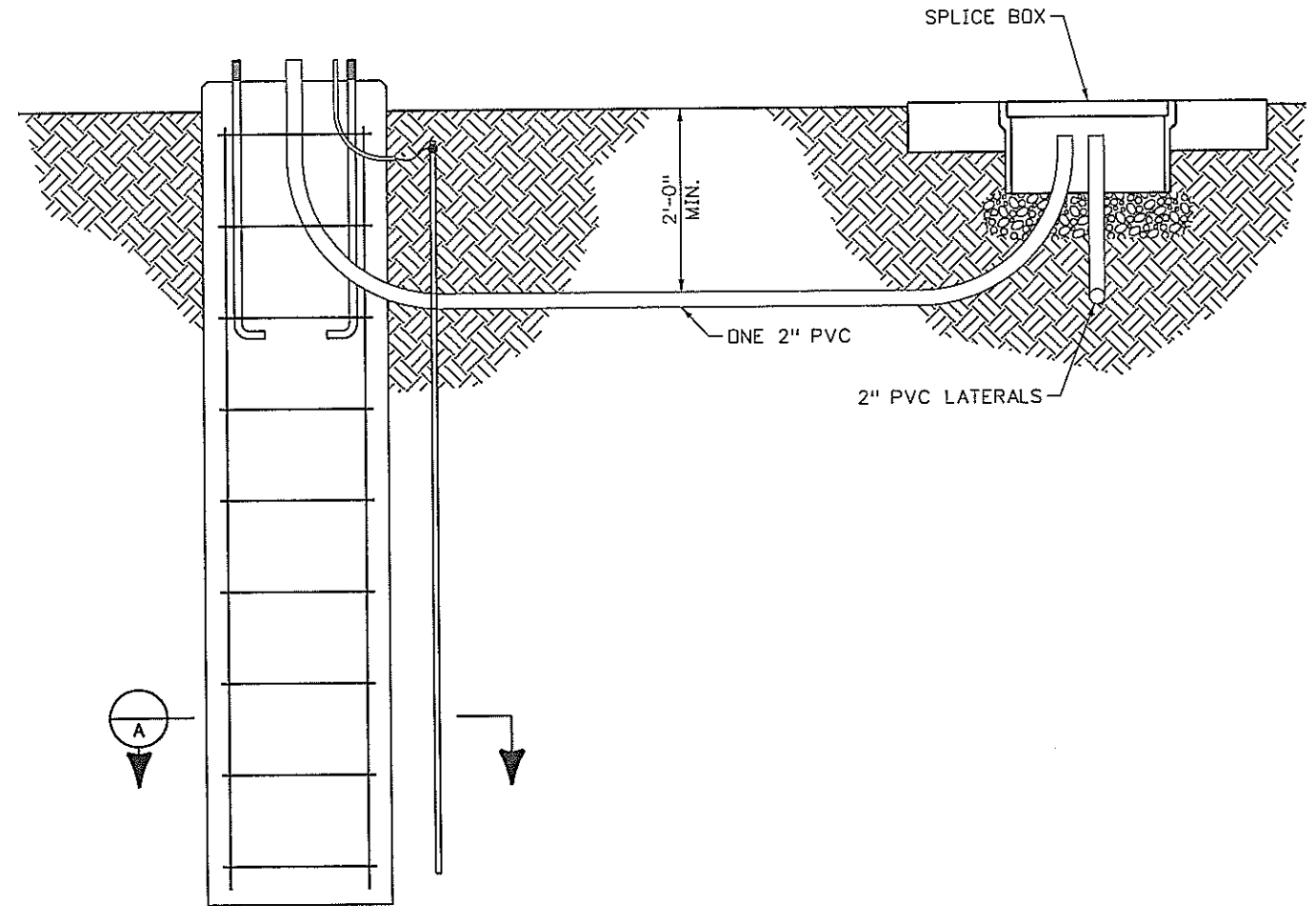
1/2" PVC SLEEVE INSTALLED IN POLE BASE AS SHOWN FOR GROUNDING CONDUCTOR

CHAMFER ON ALL EXPOSED EDGES



SEE SHEET NO. 3 OF 3

TYPICAL CONCRETE LIGHT STANDARD FOUNDATION
(ELECTRICAL)



SPECIAL
~~ALTERNATIVE~~ CONCRETE LIGHT STANDARD FOUNDATION WITH SPLICE BOX

(FOR DETAILS NOT SHOWN, SEE "TYPICAL CONCRETE LIGHT STANDARD FOUNDATION", THIS SHEET)

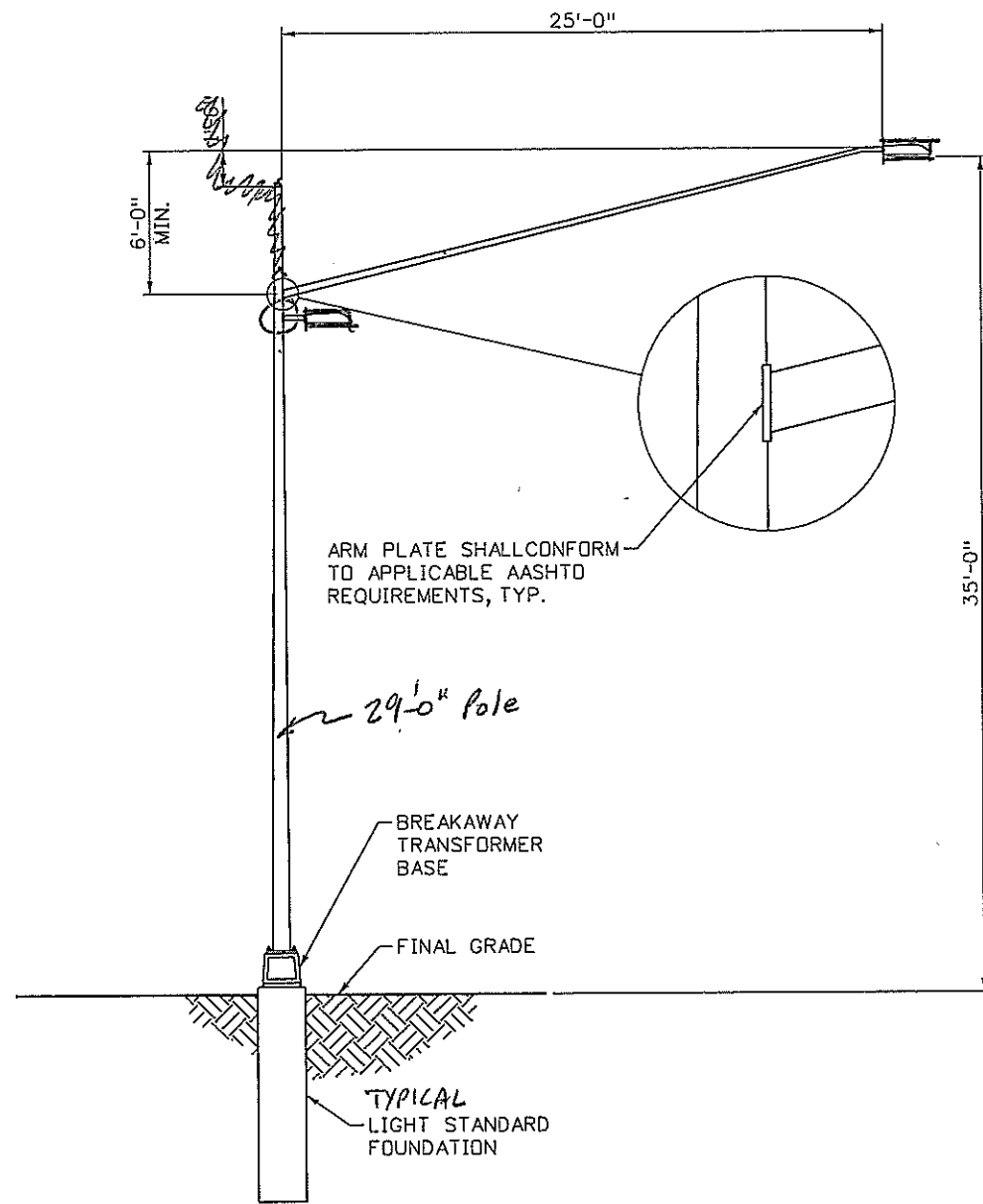
NOTE: FOR LOCATIONS SEE LIGHTING PLANS

NOTES:

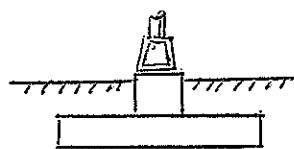
- FOR GENERAL NOTES SEE SHEET 1 OF 3
- FOR FOUNDATION DETAILS SEE SHEET 3 OF 3

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Creation Date: 02/22/08	Initials: ERS			Region I		No. Revisions:		Designer: AGW		IM 070A-003	
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2 of 4



LIGHT STANDARD



ALTERNATE LIGHT STANDARD FOUNDATION

GENERAL NOTES *LIGHTING*

1. REFER TO THE ROADWAY PLANS FOR THE ACTUAL CONFIGURATION AND LOCATION OF LIGHT STANDARDS.
2. FOR CONDUIT, PULL OR SPLICE BOX, CONTROL CENTER, AND CABINET DETAILS SEE STANDARD PLAN M-613-1 SHEET 4 OF 4.
3. LIGHT STANDARDS SHALL NOT BE PLACED IN DITCHES OR OTHER LOW AREAS. EMBANKMENT AND BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 203.
4. POLE CAPS ARE REQUIRED.
5. BREAK-AWAY TRANSFORMER BASES SHALL BE INCLUDED ON ALL LIGHT STANDARDS. FOR DETAILS SEE STANDARD PLAN NO. M-613-1 SHEET 2 OF 4.
6. CABINET BASE OR PAD AND LEVELING CONCRETE SHALL BE CLASS B CONCRETE.
7. WELDING OF STEEL SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWS D1.1 ALL AREAS TO BE WELDED SHALL BE GROUND TO BRIGHT METAL. ALL WELDING AND REQUIRED TESTING SHALL BE COMPLETE BEFORE ANY MATERIAL IS GALVANIZED. ALL CIRCUMFERENTIAL WELDS SHALL BE NONDESTRUCTIVELY TESTED USING THE ENHANCED MAGNETIC PARTICLE METHOD IN ACCORDANCE WITH SUBSECTION 509.18 (D) OF THE STANDARD SPECIFICATIONS. THE ACCEPTANCE CRITERIA IS STATED IN TABLE 6.1 OF ANSI/AWS D1.1.
8. LIGHT STANDARDS SHALL BE DESIGNED AND CONSTRUCTED TO THE DESIGN CRITERIA LISTED ON THIS SHEET AND IN THE SPECIAL PROVISIONS. *BY THE CONTRACTOR ENTIRE ASSEMBLY SHALL BE MANUFACTURED BY ONE SUPPLIER.*
9. WORKING DRAWINGS AND DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER.

LUMINAIRE AND ELECTRIC NOTES

1. LUMINAIRES WITH LAMPS RATED MORE THAN 3200 LUMENS SHALL BE IESNA FULL CUTOFF DISTRIBUTION.
2. FLAT LENS IS REQUIRED ON ALL ~~INSTALLATIONS~~ LUMINAIRES.
3. PHOTO ELECTRIC CONTROLS SHALL BE LOCATED AT THE LIGHTING CONTROL CENTER. SEE CDOT STANDARD PLAN NO. M-613-1 SHEET 4 OF 4 DETAILS FOR ADDITIONAL INFORMATION.

DESIGN CRITERIA



GENERAL

1. LIGHT STANDARDS AND FOUNDATIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 4TH EDITIONS INCLUDING INTERIMS THROUGH 2006. LIGHT STANDARDS SHALL BE DESIGNED AND CONSTRUCTED TO THE FATIGUE REQUIREMENTS IN THESE PUBLICATIONS.
2. A DESIGN WIND VELOCITY OF 100 MPH AND ONE 12 FT. LANE WITH A 65 MPH TRUCK-INDUCED GUST LOADING SHALL BE USED FOR DESIGN.
3. GALLOPING LOADS ARE EXCLUDED FROM FATIGUE DESIGN AND CATEGORY 2 IMPORTANCE FACTORS SHALL BE USED.

FOUNDATIONS

1. *DILLED SHAFT AND SPREAD FOOTING*
DUE TO THE PRESENCE OF BEDROCK AND SHOT ROCK, ALTERNATE FOUNDATIONS ARE ~~ALLOWED~~ *ALLOWED*. SPREAD FOOTING ALTERNATE FOUNDATIONS SHALL ONLY BE USED WHEN BEARING ON BEDROCK OR SHOT ROCK. ALTERNATE SPREAD FOOTING FOUNDATIONS ARE SHOWN ON SHEET 4 OF 4.
2. STANDARD DRILLED SHAFT FOUNDATIONS ARE SHOWN ON SHEETS 2 AND 3 OF 4.

PAYMENT

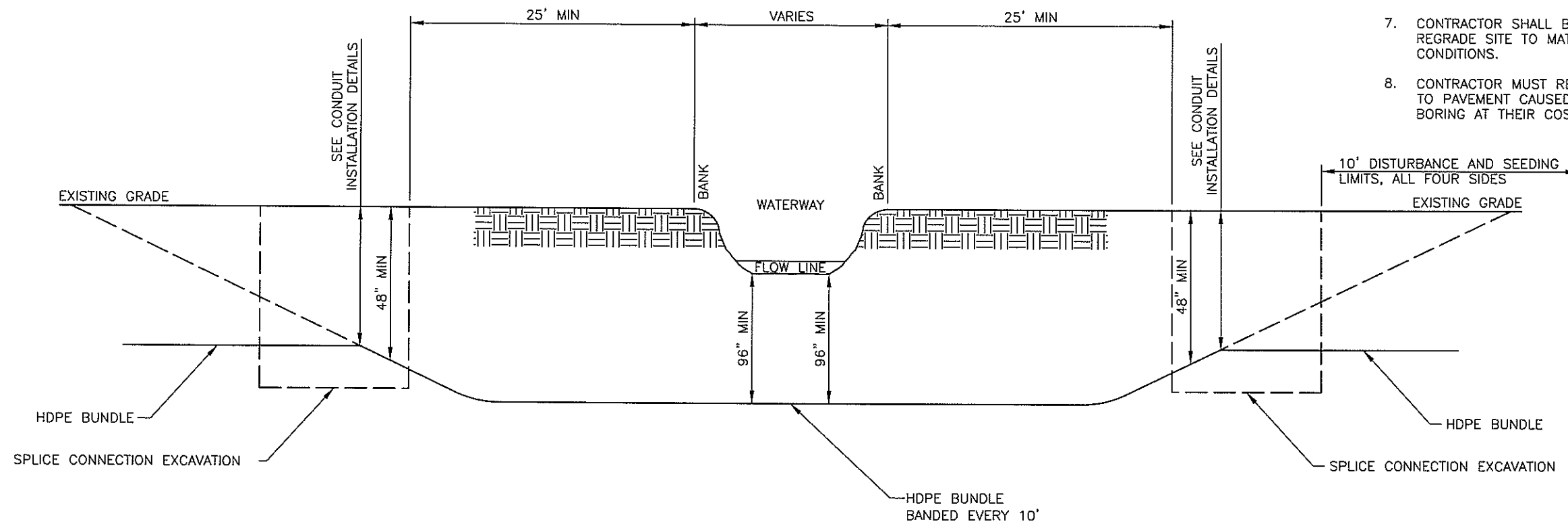
Computer File Information		Index of Revisions		 Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed		SPECIAL LIGHT STANDARD DETAILS		Project No./Code
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Scale: 1/8" = 1'-0"	Units: ENGLISH									



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987
CALL 2 BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

NOTES:

1. CONTRACTOR SHALL CONFORM TO THE APPLICABLE AGENCY REQUIREMENTS AND SPECIFICATION FOR BORE CROSSINGS.
2. CLEARANCE BETWEEN EXISTING BOTTOM OF WATERWAY AND TOP OF PROPOSED CASING SHALL BE A MINIMUM OF 96 INCHES OR AS SPECIFIED BY THE ENGINEER.
3. MINIMUM DEPTH OF 96 INCHES MUST BE ACHIEVED AT LEAST 25 FEET FROM EDGE OF WATERWAY AS NO EXCAVATION IS ALLOWED WITHIN 25 FEET OF THE BANKS.
4. EXCAVATIONS AND DISTURBANCE LIMITS REQUIRE SEEDING AND MULCHING.
5. REFER TO SPECIAL PROVISIONS FOR REQUIREMENTS ON HANDLING AND DISPOSING OF BORING SLUDGE.
6. CONDUIT SPLICE CONNECTION EXCAVATION AND CONDUIT SPLICE SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
7. CONTRACTOR SHALL BACKFILL AND REGRADE SITE TO MATCH EXISTING CONDITIONS.
8. CONTRACTOR MUST REPAIR ANY DAMAGE TO PAVEMENT CAUSED BY ERRANT BORING AT THEIR COST.



WATERWAY DIRECTIONAL BORE PROFILE

N.T.S.

NOTE:

SENSITIVE ENVIRONMENTAL AREA. NO PARKING, NO WORK AND NO STORING OF EQUIPMENT OR SUPPLIES IN THESE SENSITIVE ENVIRONMENTAL AREAS.

Computer File Information		Index of Revisions		As Constructed		BORING DETAILS		Project No./Code	
Creation Date: 02/18/08	Initials: SRB			No. Revisions:		Designer:	SRB	Structure Numbers	IM 070A-003
Last Modification Date: 03/25/08	Initials: SRB			Revised:		Detailer:	SRB		16701
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Drawing File Name: bore-05.dgn									Sheet Number: 19
Scale: Units: ENGLISH									



REGION I DW

Region 1
18500 East Colfax
Aurora, CO 80011
Phone: (303) 365-7340
FAX: (303) 365-7343

PBSJ
4601 DTC Blvd.
Suite 700
Denver, CO 80237
Phone: (303) 221-7275
Fax: (303) 221-7276

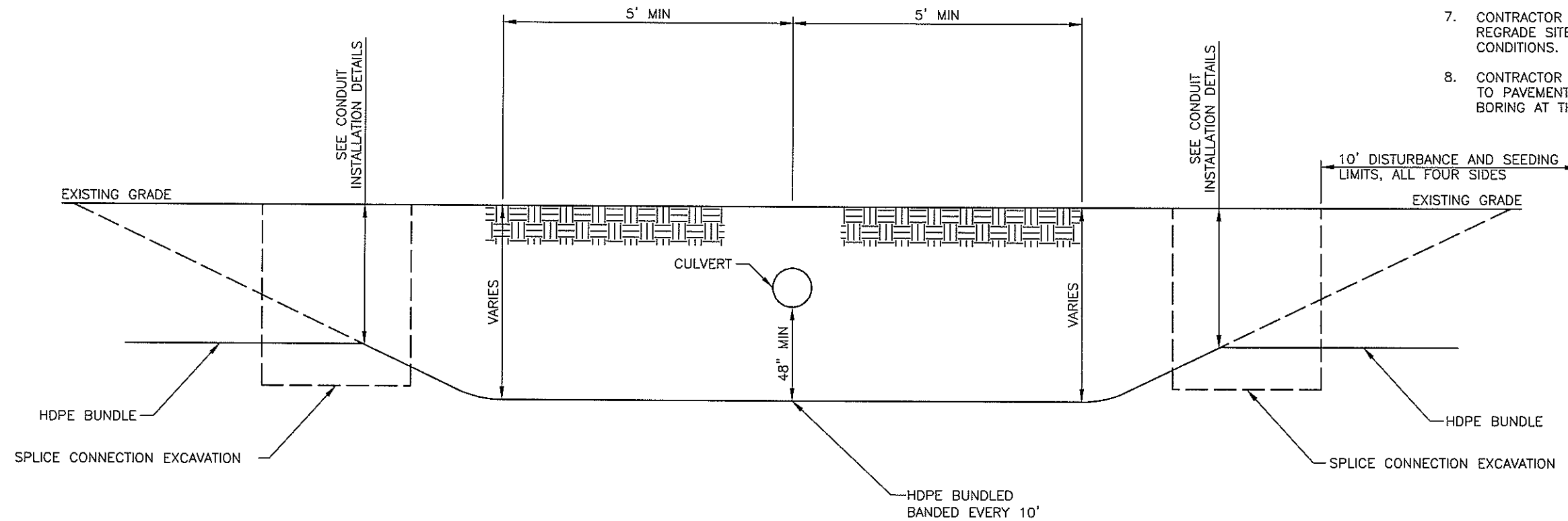


CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987

CALL 2 BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

NOTES:

1. CONTRACTOR SHALL CONFORM TO THE APPLICABLE AGENCY REQUIREMENTS AND SPECIFICATION FOR BORE CROSSINGS.
2. CLEARANCE BETWEEN EXISTING ROAD BASE AND TOP OF PROPOSED CASING SHALL BE A MINIMUM OF 48 INCHES OR AS SPECIFIED BY THE ENGINEER.
3. MINIMUM DEPTH OF 48 INCHES MUST BE ACHIEVED AT LEAST 5 FEET FROM EDGE OF PAVEMENT.
4. EXCAVATIONS AND DISTURBANCE LIMITS REQUIRE SEEDING AND MULCHING.
5. REFER TO SPECIAL PROVISIONS FOR REQUIREMENTS ON HANDLING AND DISPOSING OF BORING SLUDGE.
6. CONDUIT SPLICE CONNECTION EXCAVATION AND CONDUIT SPLICE SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
7. CONTRACTOR SHALL BACKFILL AND REGRADE SITE TO MATCH EXISTING CONDITIONS.
8. CONTRACTOR MUST REPAIR ANY DAMAGE TO PAVEMENT CAUSED BY ERRANT BORING AT THEIR COST.



CULVERT DIRECTIONAL BORE PROFILE

N.T.S.

NOTE:

REFER TO CONDUIT INSTALLATION DETAILS FOR CASES WHERE TRENCH CROSSES OVER TOP OF CULVERT.

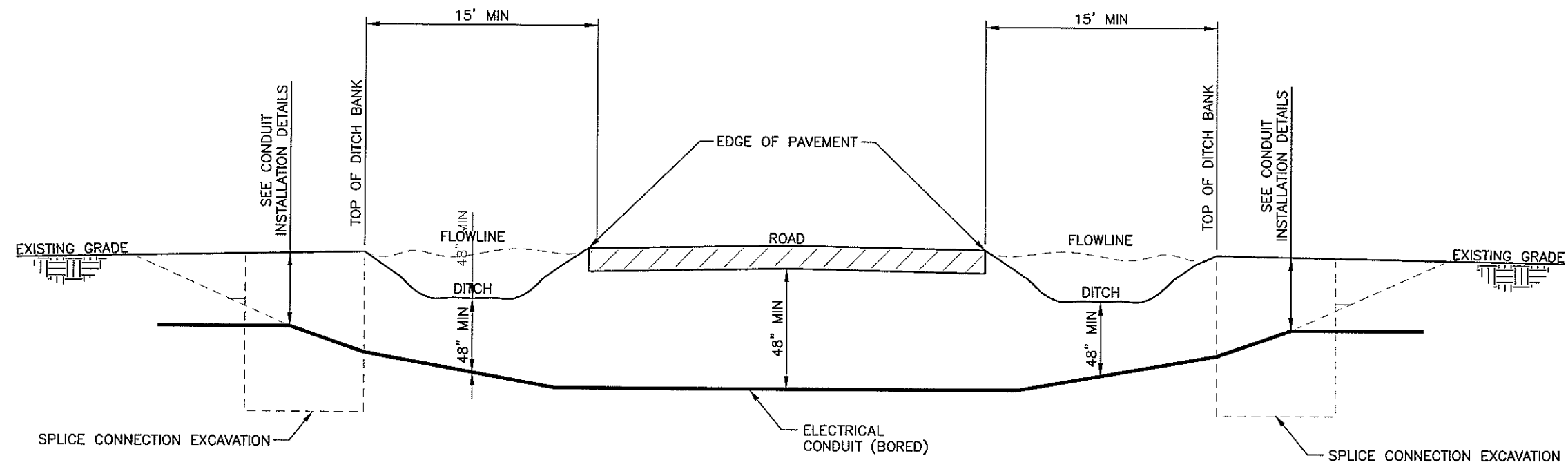
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Creation Date: 02/18/08	Initials: SRB			No. Revisions:		Designer: SRB		IM 070A-003	
Last Modification Date: 03/25/08	Initials: SRB			Revised:		Detailer: SRB		16701	
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Scale:									



REGION 1 DW

Region 1
18500 East Colfax
Aurora, CO 80011
Phone: (303) 365-7340
FAX: (303) 365-7343

PBSJ
4601 DTC Blvd.
Suite 700
Denver, CO 80237
Phone: (303) 221-7275
Fax: (303) 221-7276

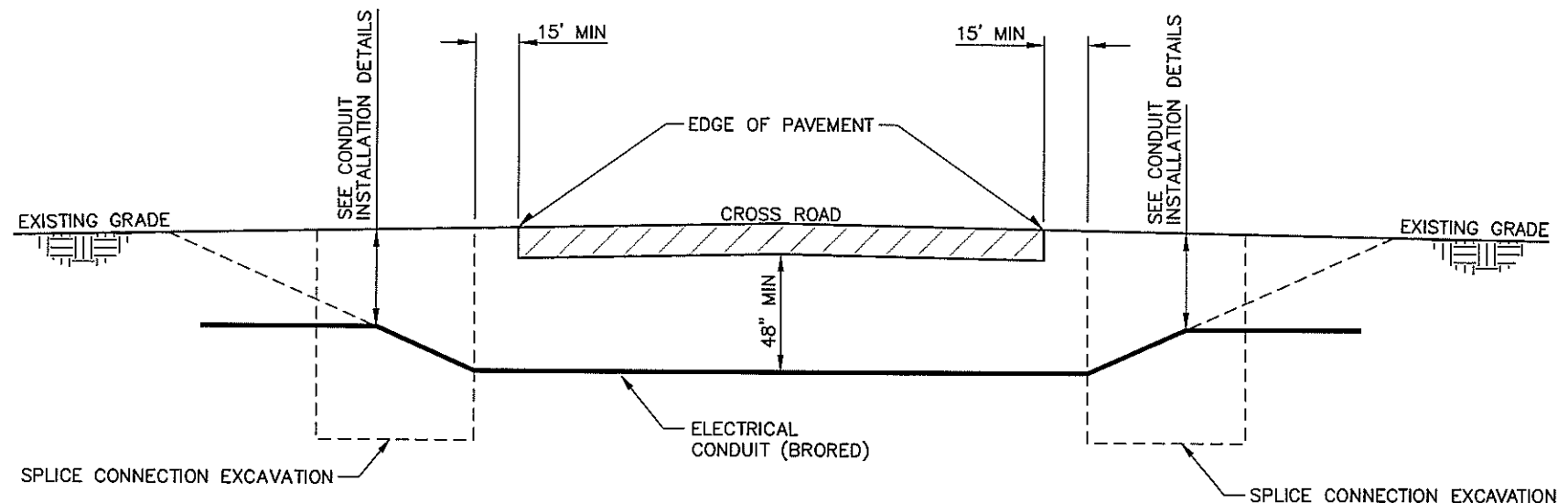


ROAD AND DITCH DIRECTIONAL BORE PROFILE
N.T.S

NOTES:

1. CONTRACTOR SHALL CONFORM TO THE APPLICABLE AGENCY REQUIREMENTS AND SPECIFICATION FOR BORE CROSSINGS
2. CLEARANCE BETWEEN EXISTING ROAD BASE AND TOP OF PROPOSED CASING SHALL BE A MINIMUM OF 48 INCHES OR AS SPECIFIED BY THE ENGINEER.
3. MINIMUM DEPTH OF 48 INCHES MUST BE ACHIEVED AT LEAST 15 FEET FROM EDGE OF PAVEMENT AS NO EXCAVATION IS ALLOWED WITHIN 15 FEET.
4. EXCAVATIONS REQUIRE SEEDING AND MULCHING.
5. CONDUIT SPLICE CONNECTION EXCAVATION AND CONDUIT SPLICE SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
6. CONTRACTOR SHALL BACKFILL AND REGRADE SITE TO MATCH EXISTING CONDITIONS.
7. CONTRACTOR MUST REPAIR ANY DAMAGE TO PAVEMENT CAUSED BY ERRANT BORING AT THEIR COST.

Computer File Information		Index of Revisions		Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed		BORING DETAILS		Project No./Code	
Creation Date: 02/18/08	Initials: SRB					No. Revisions:		Designer: SRB	Structure Numbers	IM 070A-003	
Last Modification Date: 03/25/08	Initials: SRB			Revised:		Detailer: SRB		16701			
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Scale: Units: ENGLISH											

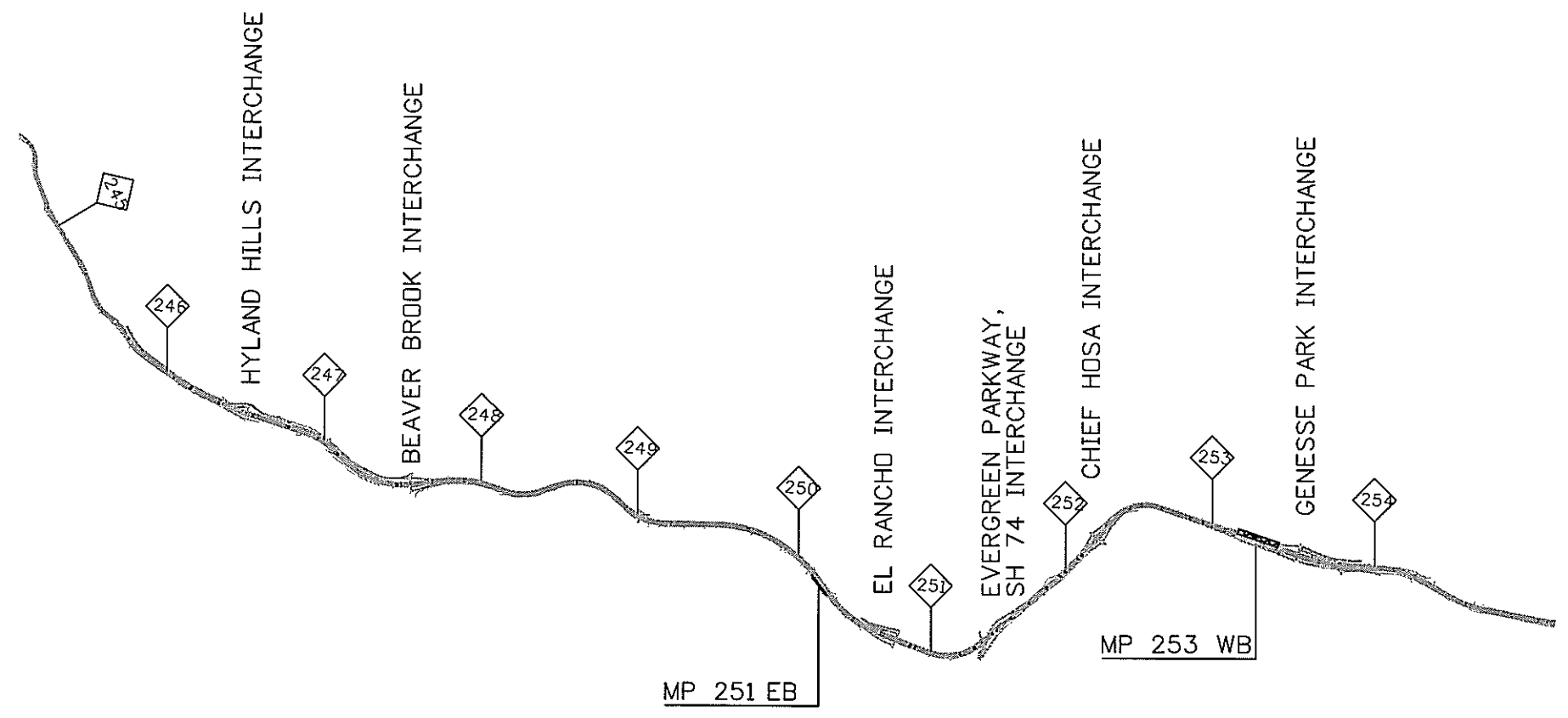
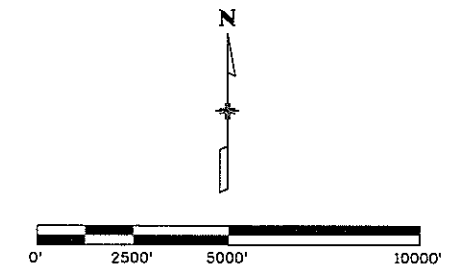


CROSS ROAD DIRECTIONAL BORE PROFILE
N.T.S

NOTES:

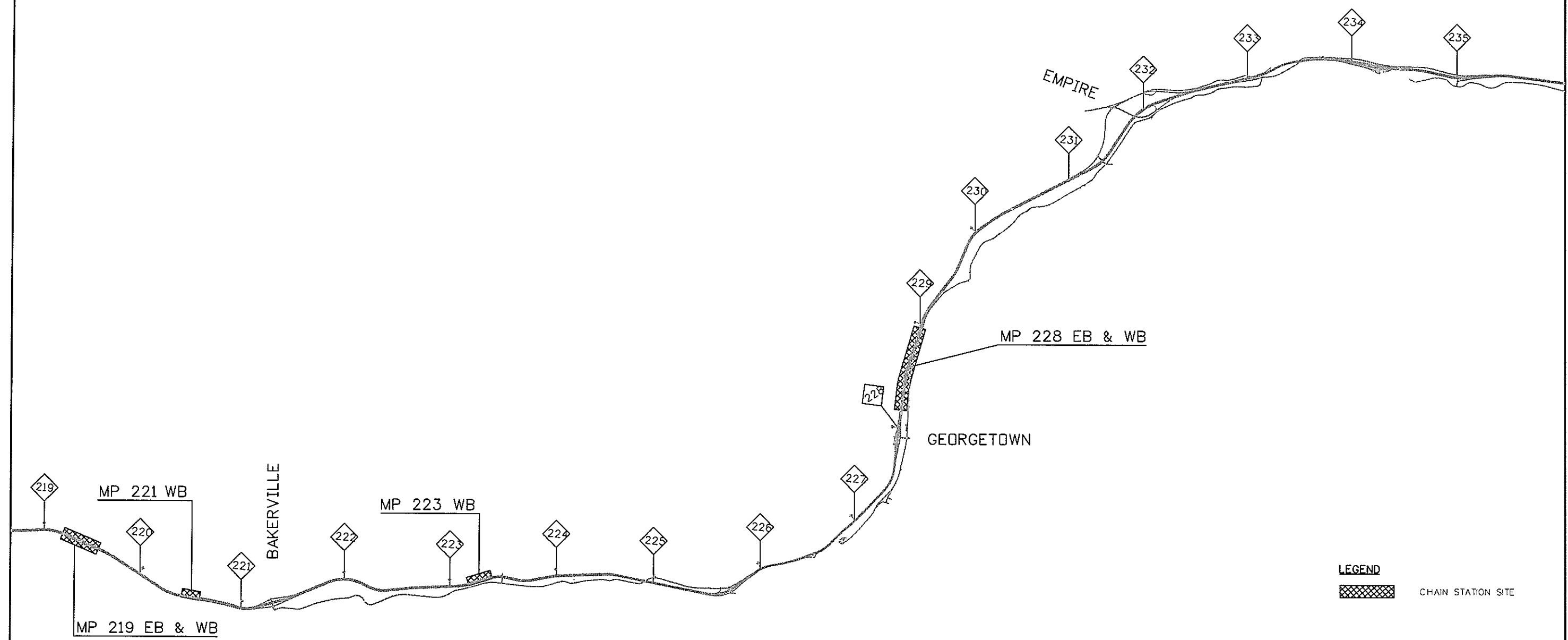
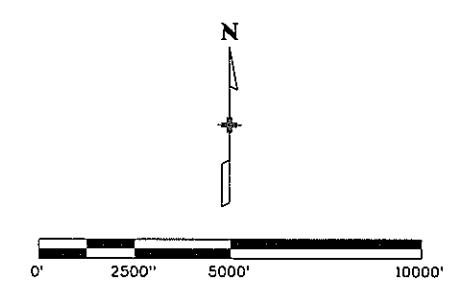
1. CONTRACTOR SHALL CONFORM TO THE APPLICABLE AGENCY REQUIREMENTS AND SPECIFICATION FOR BORE CROSSINGS
2. CLEARANCE BETWEEN EXISTING ROAD BASE AND TOP OF PROPOSED CASING SHALL BE A MINIMUM OF 48 INCHES OR AS SPECIFIED BY THE ENGINEER.
3. MINIMUM DEPTH OF 48 INCHES MUST BE ACHIEVED AT LEAST 15 FEET FROM EDGE OF PAVEMENT AS NO EXCAVATION IS ALLOWED WITHIN 15 FEET.
4. EXCAVATIONS REQUIRE SEEDING AND MULCHING.
5. CONDUIT SPLICE CONNECTION EXCAVATION AND CONDUIT SPLICE SHALL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
6. CONTRACTOR SHALL BACKFILL AND REGRADE SITE TO MATCH EXISTING CONDITIONS.
7. CONTRACTOR MUST REPAIR ANY DAMAGE TO PAVEMENT CAUSED BY ERRANT BORING AT THEIR COST.

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Creation Date: 02/18/08	Initials: SRB					No. Revisions:			IM 070A-003			
Last Modification Date: 03/25/08	Initials: SRB					Revised:	Designer: SRB	Structure Numbers:	16701			
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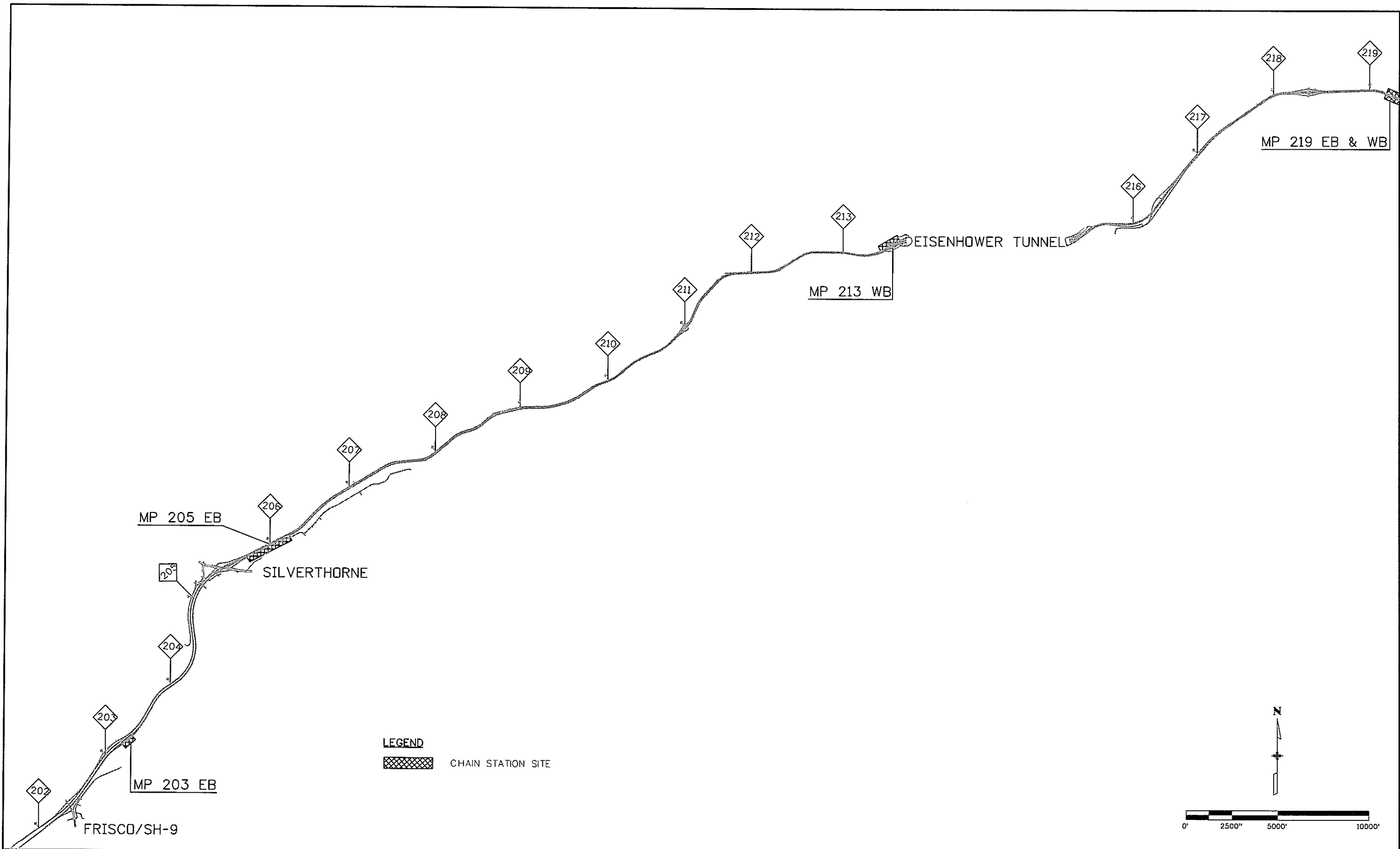
LEGEND
 CHAIN STATION SITE



Computer File Information		Index of Revisions		Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed		STATION LOCATION PLAN		Project No./Code	
Creation Date: 02/18/08	Initials: SRB					No. Revisions:				IM 070A-003	
Last Modification Date: 03/25/08	Initials: SRB					Revised:	Designer: SRB	Structure Numbers	16701		
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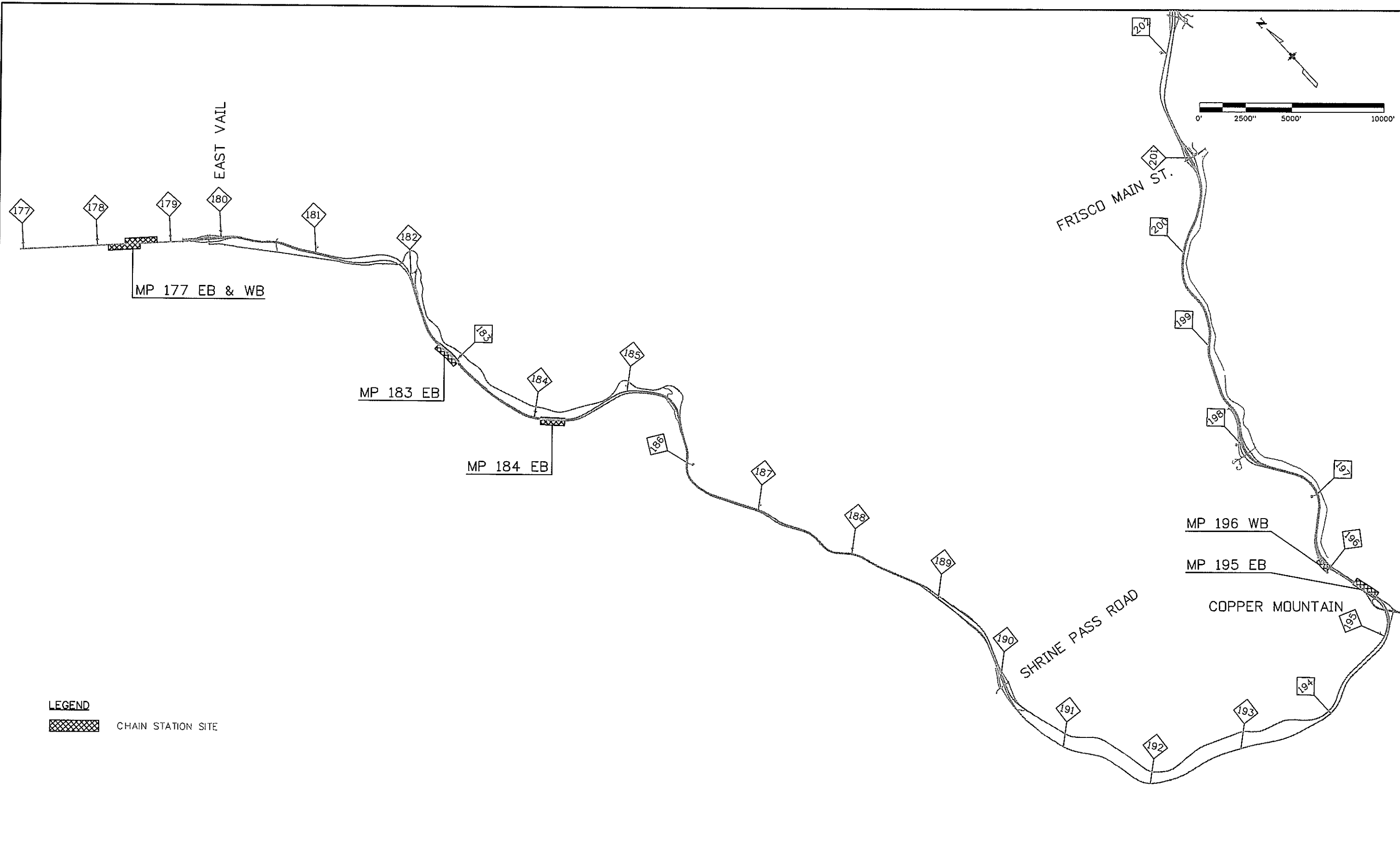



LEGEND
 CHAIN STATION SITE



Computer File Information		Index of Revisions		<p>Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343</p> <p>PBSJ 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276</p>	As Constructed		STATION LOCATION PLAN		Project No./Code	
Creation Date: 02/18/08	Initials: SRB				No. Revisions:			IM 070A-003		
Last Modification Date: 03/25/08	Initials: SRB				Revised:	Designer: SRB	Structure Numbers:	16701		
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Computer File Information		Index of Revisions		 Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed		STATION LOCATION PLAN		Project No./Code	
Creation Date: 02/18/08	Initials: SRB					No. Revisions:			IM 070A-003		16701
Last Modification Date: 03/25/08	Initials: SRB			Revised:	Designer: SRB	Structure Numbers					
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Scale: Units: ENGLISH				REGION I	DW						





LEGEND
 CHAIN STATION SITE

Computer File Information		Index of Revisions		 Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed		STATION LOCATION PLAN		Project No./Code	
Creation Date: 02/18/08	Initials: SRB					No. Revisions:	Designer: SRB	Structure Numbers:	IM 070A-003		
Last Modification Date: 03/25/08	Initials: BEG			Revised:	Detailer: SRB	Subset Sheets:	16701				
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Drawing File Name: 16701devicelocation01.dgn				REGION I		DW					
Scale:	Units: ENGLISH										



MILE POST	SHEET NO.	INTERCHANGE/CHAIN STATION
177		EB Chain Station
180		Vail East Entrance Interchange
183		EB Chain Station
184		EB Chain Station
190		Shrine Pass Road Interchange
195		EB Chain Station
195		Copper Mountain, SH 91 Interchange
196		WB Chain Station
198		Officers Gulch Interchange
201		Frisco Main Street Interchange
203		SH9/Frisco Interchange
203		EB Chain Station; Frisco Overlook
205		Silverthorne Interchange
205		EB Chain Station
211		Hamilton Gulch Interchange
213		WB Chain Station
216		US6/Loveland Pass Interchange
218		Herman Gulch Interchange
219		EB Chain Station
219		WB Chain Station
221		Bakerville Interchange
221		WB Chain Station
223		WB Chain Station
226		Silver Plume Interchange
227		Georgetown Hill
228		EB Chain Station
228		WB Chain Station
232		Empire, US 40 Interchange
233		Lawson Interchange
234		Downieville Interchange
235		Dumont Interchange
238		Fall River Road Interchange
239		West Idaho Springs Interchange
240		Mount Evans, SH 103 Interchange
241		East Idaho Springs, County Road 314 Interchange
241		EB Chain Station
242		Twin Tunnels
243		Hidden Valley Interchange
244		Golden, US 6 to SH 119 Interchange
247		Hyland Hills Interchange
248		Beaver Brook Interchange
251		EB Chain Station
251		El Rancho Interchange
252		Evergreen Parkway, SH 74 Interchange
253		Chief Hosa Interchange
254		Genesse Park Interchange

NOTES: THIS TABLE SHOWS THE STATION AND SHEET REFERENCE NUMBER FOR EACH CHAIN STATION IN THE PROJECT AREA. INTERCHANGES ARE ALSO SHOWN FOR QUICK REFERENCE.

Computer File Information		Index of Revisions		 Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed		MILEPOST INFORMATION		Project No./Code	
Creation Date: 02/18/08	Initials: SRB					No. Revisions:			IM 070A-003		
Last Modification Date: 03/25/08	Initials: BEG			Revised:	Designer: SRB	Structure Numbers	16701				
Full Path: S:\Tranproj\100000508\16701\Consultants\Plot_Sets\FOR				Void:	Detailer: SRB		Sheet Subset: Mile Post		Subset Sheets:		Sheet Number: 9
Drawing File Name: 16701milepostinfo.dgn				REGION I DW							
Scale:	Units: ENGLISH										



TABULATION OF CONDUIT, PULL BOXES, CABINETS AND MARKERS

LOCATION	LOCATION MARKER (FIBER OPTIC) (DOME)			LOCATION MARKER (UTILITY) (FLAT SLAT)	3 INCH ELECTRICAL CONDUIT (BORED)	2 INCH ELECTRICAL CONDUIT	2 INCH ELECTRICAL CONDUIT (PLASTIC)		2-1/2 INCH ELECTRICAL CONDUIT (PLASTIC)		PULLBOX (24x36)	Communications Cabinet	FIBER OPTIC CABLE (SINGLE MODE)	Telemetry (Field)
	RUNNING LINE LOCATION MARKER	PULL BOX AND MANHOLE LOCATION MARKER	TOTAL				STICK-TYPE (PVC SCHEDULE 80)	REEL TYPE (HDPE SDR 13.5)	STICK-TYPE (PVC SCHEDULE 80)	REEL TYPE (HDPE SDR 13.5)			6 STRANDS	
	EACH	EACH	EACH				LF	LF	LF	LF			EA	
MP 177 WESTBOUND	2	3	5	2		191		1970	5	3257	3	1		2
MP 183 EASTBOUND	1	2	3	2	308			980	5	1982	2	1	60	
MP 184 EASTBOUND		2	2	2	414			0	5	558	2	1	60	
MP 195 EASTBOUND	3	4	7	2	3184			540	5	2907	6		120	
MP 196 WESTBOUND		1	1	2	90			740	5	1078	1		60	
MP 203 EASTBOUND		1	1	2	90			1410	5	176	1		60	
MP 205 EASTBOUND		1	1	2				2740	5	127	1		60	
MP 213 WESTBOUND			0	2	350			0	5	0				
MP 219 EASTBOUND	1		1	2	1016			1310	5	1761	2		120	
MP 219 WESTBOUND	1		1	2				1640	5	1284		1		
MP 221 WESTBOUND		1	1	2				2410	96	1899	1	1	60	
MP 223 WESTBOUND			0	2				650	5	281		1	60	
MP 228 EASTBOUND	1		1	2				2080	32	1625			120	
MP 228 WESTBOUND	1		1	2	80			3810	5	3323				
MP 241 EASTBOUND		3	3	2		196		1090	5	1790	3		60	
MP 251 EASTBOUND		2	2	2	350			650	29	1373	2		60	
MP 254 WESTBOUND			0	2	70			1260	70	0			60	
PROJECT TOTALS	10	20	30	34	5,952	387	0	23,280	292	23,421	24	6	960	2

Computer File Information		Index of Revisions		 Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed		TABULATIONS		Project No./Code	
Creation Date: 02/18/08	Initials: SRB					No. Revisions:			IM 070A-003		
Last Modification Date: 03/25/08	Initials: SRB					Revised:	Designer: SRB	Structure Numbers	16701		
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Drawing File Name: bsta01.dgn				REGION I DW							
Scale: Units: ENGLISH											



SUMMARY OF APPROXIMATE QUANTITIES

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	TRAFFIC								TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.					PLAN	AS CONST.
			630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	6								6	
			630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	33								33	
			630-80343	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE C)	EACH	26								26	
			630-80344	CONSTRUCTION TRAFFIC SIGN (SPECIAL)	SF	94								94	
			630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	1								1	
			630-80358	ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL (C TYPE)	EACH	1								1	
			630-80360	DRUM CHANNELIZING DEVICE	EACH	50								50	
			630-80380	TRAFFIC CONE	EACH	400								400	
			630-85040	IMPACT ATTENUATOR (TRUCK MOUNTED ATTENUATOR) (TEMPORARY)	EACH	1								1	
			700-70010	F/A MINOR CONTRACT REVISIONS	FA	1								1	
			700-70011	F/A PARTNERING	FA	1								1	
			700-70023	F/A ON-THE-JOB TRAINEE	FA	1								1	
			700-70028	F/A ESB PROGRAM	FA	1								1	
			700-70190	F/A ELECTRIC SERVICE	FA	1								1	
			700-70380	F/A EROSION CONTROL	FA	1								1	
			700-73351	F/A THIRD PARTY FORCE ACCOUNT	FA	1								1	

Computer File Information		Index of Revisions		 Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed		SUMMARY OF APPROXIMATE QUANTITIES			Project No./Code	
Creation Date: 02/18/08	Initials: SRB	<input type="checkbox"/>	<input type="checkbox"/>			No. Revisions:			IM 070A-003			
Last Modification Date: 03/25/08	Initials: SRB	<input type="checkbox"/>	<input type="checkbox"/>			Revised:	Designer: SRB	Structure Numbers	16701			
Full Path: S:\Tranproj\100000508\16701\Consultants\Plot_Sets\FOR	soq02.dgn	<input type="checkbox"/>	<input type="checkbox"/>			Void:	Detailer: SRB	Sheet Subsets: Summary	Subset Sheets: 3 of 3	Sheet Number: 7		
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SUMMARY OF APPROXIMATE QUANTITIES

INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	TRAFFIC								TOTALS		
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.					PLAN	AS CONST.	
			613-16020	LUMINAIRE (SPECIAL) INDUCTION (165 WATT)	EACH	4									4	
			613-34300	LIGHT STANDARD METAL (30 FOOT)	EACH	22									22	
			613-34352	LIGHT STANDARD METAL (35 FOOT) (SPECIAL) (2 ARM)	EACH	203									203	
			613-40000	CONCRETE FOUNDATION PAD	EACH	22									22	
			613-40010	LIGHT STANDARD FOUNDATION	EACH	62									62	
			613-40012	LIGHT STANDARD FOUNDATION SPECIAL	EACH	16									16	
			613-50100	LIGHTING CONTROL CENTER	EACH	17									17	
			613-70400	LUMINAIRE HIGH PRESSURE SODIUM (400 WATT)	EACH	5									5	
			613-75150	LUMINAIRE METAL HALIDE (150 WATT)	EACH	423									423	
			614-00012	SIGN PANEL (CLASS II)	SF	226									226	
			614-00013	SIGN PANEL (CLASS III)	SF	60									60	
			614-00612	STEEL SIGN POST (W 6X12)	LF	57									57	
			614-00821	STEEL SIGN POST (W 8X21)	LF	65									65	
			614-01585	STEEL SIGN SUPPORT (2-1/2 INCH ROUND SCH 80) (POST)	LF	233									233	
			614-01588	STEEL SIGN SUPPORT (2-1/2 INCH ROUND SCH 80) (SLIPBASE)	EACH	19									19	
			614-03001	CONCRETE FOOTING (TYPE 1)	EACH	4									4	
			614-03004	CONCRETE FOOTING (TYPE 4)	EACH	5									5	
			614-10128	BLANKOUT SIGN (FIBER OPTIC)	EACH	5									5	
			614-72830	COMMUNICATIONS CABINET	EACH	6									6	
			614-80000	FLASHING BEACON	EACH	4									4	
			614-86105	TELEMETRY (FIELD)	EACH	2									2	
			614-87350	TEST FIBER OPTIC CABLE	LS	1									1	
			614-87406	FIBER OPTIC CABLE (SINGLE MODE) (6 STRANDS)	LF	960									960	
			620-00020	SANITARY FACILITY	EACH	2									2	
			625-00000	CONSTRUCTION SURVEYING	LS	1									1	
			625-00001	CONSTRUCTION SURVEYING (HOURLY)	HOUR	20									20	
			626-00000	MOBILIZATION	LS	1									1	
			630-00000	FLAGGING	HOUR	756									756	
			630-00007	TRAFFIC CONTROL INSPECTION	DAY	42									42	
			630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	105									105	

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Creation Date: 02/18/08	Initials: SRB	<input type="checkbox"/>	<input type="checkbox"/>			No. Revisions:			IM 070A-003			
Last Modification Date: 03/25/08	Initials: SRB	<input type="checkbox"/>	<input type="checkbox"/>			Revised:			Designer: SRB	Structure Numbers	16701	
Full Path: S:\Tranproj\100000508\16701\Consultants\Plot_Sets\FOR	Initials: SRB	<input type="checkbox"/>	<input type="checkbox"/>			Void:			Detailer: SRB	Sheet Subsets	2 of 3	
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SUMMARY OF APPROXIMATE QUANTITIES



INDEX			CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	TRAFFIC								TOTALS	
BOOK	PAGE	SHEET				PLAN	AS CONST.	PLAN	AS CONST.					PLAN	AS CONST.
			202-00700	REMOVAL OF LIGHT STANDARD	EACH	19								19	
			202-00810	REMOVAL OF GROUND SIGN	EACH	2								2	
			202-00821	REMOVAL OF SIGN PANEL	EACH	1								1	
			203-01500	BLADING	HOUR	40								40	
			203-01510	BACKHOE	HOUR	40								40	
			203-01594	COMBINATION LOADER	HOUR	40								40	
			203-01597	POTHOLING	HOUR	48								48	
			208-00002	EROSION LOG (12 INCH)	LF	7447								7447	
			208-00045	CONCRETE WASHOUT STRUCTURE	EACH	3								3	
			210-00090	RESET DELINEATOR	EACH	72								72	
			212-00006	SEEDING (NATIVE)	ACRE	1.65								1.65	
			212-00032	SOIL CONDITIONING	ACRE	1.65								1.65	
			213-00002	MULCHING (WEED FREE HAY)	ACRE	1.65								1.65	
			213-00061	MULCH TACKIFIER	LB	330								330	
			503-00020	DRILLED CAISSON (SPECIAL)	LF	244								244	
			503-00024	DRILLED CAISSON (24 INCH)	LF	256								256	
			607-11525	FENCE (PLASTIC)	LF	400								400	
			612-00260	LOCATION MARKER (FIBER OPTIC) (DOME)	EACH	30								30	
			612-00270	LOCATION MARKER (UTILITY) (FLAT SLAT)	EACH	36								36	
			613-00125	1-1/4 INCH ELECTRICAL CONDUIT	LF	250								250	
			613-00200	2 INCH ELECTRICAL CONDUIT	LF	387								387	
			613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF	5952								5952	
			613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	25800								25800	
			613-01250	2-1/2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	23713								23713	
			613-05000	DIRECT BURIAL CABLE	LF	560								560	
			613-07034	PULL BOX (24X36X18)	EACH	24								24	
			613-10010	WRING (SPECIAL)	LS	1								1	

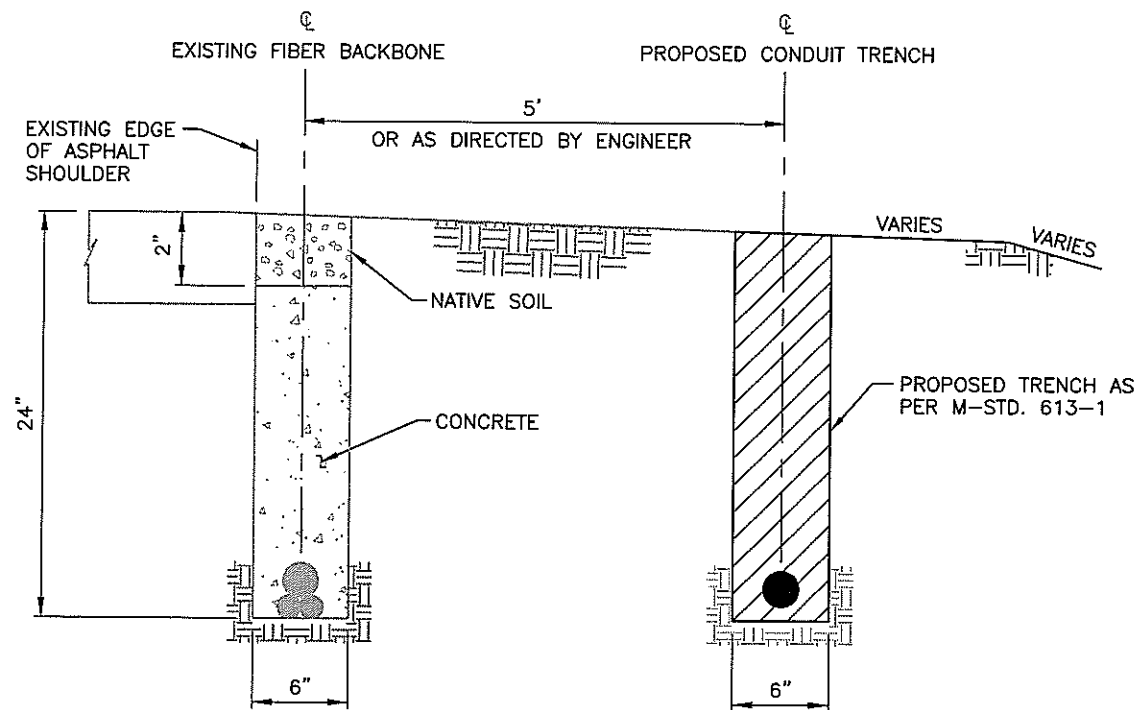
Computer File Information		Index of Revisions		 Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed	SUMMARY OF APPROXIMATE QUANTITIES		Project No./Code	
Creation Date: 02/18/08	Initials: SRB					No. Revisions:			IM 070A-003	
Last Modification Date: 03/25/08	Initials: SRB			Revised:	Designer: SRB	Structure			16701	
Full Path: S:\Tranproj\100000508\16701\Consultants\Plot_Sets\FOR				Void:	Detailer: SRB	Numbers				
Drawing File Name: soq01.dgn					Sheet Subset: Summary	Subset Sheets:	1 of 3		Sheet Number: 5	
Scale: Units: ENGLISH				REGION I	DW					

GENERAL NOTES

1. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF RIGHT OF WAY. CONTRACTOR SHALL INDEMNIFY AND HOLD CDOT SAFE AND HARMLESS FROM ANY CLAIMS OR DAMAGES ARISING FROM THE CONTRACTOR'S USE OF PROPERTY OUTSIDE THE LIMITS OF RIGHT-OF-WAY.
2. DEPTH OF MOISTURE AND DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
 FULL DEPTH OF EMBANKMENTS
 MINIMUM R VALUE OF 70 REQUIRED IN TOP TWO FEET
 BASES OF CUTS AND FILLS ~ 0.5 FT DEPTH
 EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS SHALL BE CONSIDERED AS INCIDENTAL TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
3. TYPE OF COMPACTION FOR THIS PROJECT WILL BE AASHTO T-180.
4. FULL COMPLIANCE PAVEMENT MARKINGS AND ROADSIDE DELINEATION SHALL BE IN PLACE AT THE END OF EACH WORKING DAY UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5. IF ANY SOIL CONTAMINATION IS SUSPECTED WHILE EXCAVATING, IMMEDIATELY CONTACT THE ENGINEER.
6. THE CONTRACTOR SHALL NOT STOCKPILE ANY MATERIAL WITHIN CDOT ROW UNLESS APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL SUBMIT A PLAN ADDRESSING LOCAL DRAINAGE DURING EACH PHASE OF CONSTRUCTION TO THE ENGINEER FOR REVIEW. THIS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
8. CONTROL OF SURFACE RUNOFF AND REPAIR OF DAMAGES RESULTING FROM RUNOFF IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE COST OF THE WORK.
9. ALL REMOVED MATERIALS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
10. ALL SHOULDERS AND OTHER PAVED AREAS SHALL BE SWEEPED ON A DAILY BASIS TO REMOVE ANY FOREIGN DEBRIS FROM THE SHOULDER AND TRAVELED WAY. ALL SWEEPING OPERATIONS SHALL BE DONE BY A PICK-UP TYPE BROOM AND SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
11. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DAMAGE THERETO.
12. CLEARING AND GRUBBING WILL NOT BE ALLOWED BEYOND THE CONSTRUCTION LIMITS OR REQUIRED CLEAR ZONE.
13. TEMPORARY EROSION CONTROLS MUST BE INSTALLED PRIOR TO EACH CONSTRUCTION STAGE AND MAINTAINED UNTIL THEY ARE NO LONGER NEEDED OR CONFLICT WITH THE WORK.
14. APPROPRIATE MEASURES WILL BE TAKEN TO PREVENT THE INTRODUCTION AND SPREAD OF NOXIOUS WEEDS BE RE-ESTABLISHING A PERMANENT DESIRABLE VEGETATION COMMUNITY ALONG ALL AREAS BY CDOT, WHICH THE CONSTRUCTION CONTRACTOR MUST FOLLOW.
15. HAZARDOUS MATERIALS, INCLUDING FUELS AND LUBRICATING OILS, WILL NOT BE STORED WITHING 15 METERS (50 FEET) OF WETLANDS OR STREAMS.
16. THE PROJECT ENGINEER SHALL IMMEDIATELY REPORT TO CDOT BIOLOGIST ANY LYNX SIGHTINGS WITHIN OR ADJACENT TO THE PROPOSED PROJECT AREAS DURING CONSTRUCTION.
17. NIGHT TIME CONSTRUCTION WILL BE GEOGRAPHICALLY CONCENTRATED IN ORDER TO ALLOW LYNX THE OPPORTUNITY TO CROSS THE HIGHWAY.
18. NIGHT WORK WILL BE LIMITED TO A MAXIMUM OF FOUR CONSECUTIVE NIGHTS, TO ALLOW LYNX THE OPPORTUNITY TO CROSS THE HIGHWAY.
19. LIMIT NIGHT WORK IN THE FALL, WHEN LYNX ARE MORE ACTIVE THAN IN THE SUMMER.
20. WORK WILL BE SUPERVISED, INSPECTED, AND MONITORED BY AN ONSITE INDIVIDUAL FROM CDOT OR BY AN AUTHORIZED REPRESENTATIVE.
21. NO UTILITY RESEARCH WAS PERFORMED IN THE DESIGN OF THIS PROJECT. THE UTILITY INFORMATION SHOWN ON THE PLANS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITES AND AVOIDING THEM. REFER TO PARAGRAPH 105.10 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL CALL 1-800-922-1987 FOR UTILITY LOCATIONS AT LEAST TWO WORKING DAYS PRIOR TO ANY DIGGING, NOT INCLUDING THE DAY OF NOTIFICATION. CONDUIT RUNNING LINE ALIGNMENT MAYBE MOVED TO AVOID EXISTING UTILITIES WITH THE APPROVAL OF THE ENGINEER. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY UTILITY CONFLICT WHICH CANNOT BE READILY RESOLVED AND WHICH MAY REQUIRE REDESIGN OF ANY PART OF THE PROJECT.
22. IT IS ESTIMATED THAT 48 HOURS OF POTHOILING WILL BE REQUIRED FOR THE PROJECT, AND WILL BE PAID UNDER ITEM 203, POTHOILING. THE CONTRACTOR SHALL SUBMIT A POTHOILING PLAN TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE FOR APPROVAL WHICH DESCRIBES A PLAN FOR POTHOILING ALL EXISTING FACILITIES WHICH MAY BE IMPACTED BY CONSTRUCTION.
23. IT SHOULD BE ASSUMED THAT THE CONTRACTOR WILL ENCOUNTER BOULDERS AND ROCKS DURING ALL EXCAVATIONS INCLUDING LIGHT FOUNDATIONS, SITE GRADING, CONDUIT TRENCHING, CONDUIT BORING, AND SIGN FOOTINGS. THE CONTRACTOR WILL BE REQUIRED TO EITHER AVOID OR REMOVE BOULDERS AND ROCKS WHEN ENCOUNTERED. THE COST OF THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
24. DUST PALLIATIVE AND WATER SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
25. IT IS ESTIMATED THAT 72 DELINEATORS WILL BE RESET AS DIRECTED BY THE ENGINEER.
26. IT IS ESTIMATED THAT 400 LINEAR FEET OF FENCE (PLASTIC) (ITEM 607) WILL BE REQUIRED FOR THE PROJECT TO PROTECT MISCELLANEOUS ITEMS DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. FENCE SHALL BE RESET AS DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT SHALL BE MADE TO RESET FENCE.
27. TWO SANITARY FACILITY SHALL BE PROVIDED FOR THE ENGINEER'S USE AND SHALL BE TRAILER MOUNTED FOR EASY MOBILITY AROUND JOBSITE. THE CONTRACTOR SHALL MOVE THE FACILITY AROUND THE JOB SITE AS DIRECTED BY THE ENGINEER.
28. IT IS ESTIMATED THAT 1 LUMP SUM FOR MOBILIZATION (ITEM 626) WILL BE REQUIRED FOR THE PROJECT. IT IS ANTICIPATED THAT MORE THAN ONE MOBILIZATION WILL BE REQUIRED FOR MULTIPLE ACTIVITIES.
29. NO FUELS, LUBRICANTS OR OTHER HAZARDOUS MATERIALS WILL BE STORED ALONG THE CORRIDOR.
30. WHEREVER FOUND IN THESE PLANS OR ACCOMPANYING PROJECT SPECIAL PROVISIONS, THE TERM EJMT IS DEFINED AS "EISENHOWER-JOHNSON MEMORIAL TUNNELS."
31. THE CONTRACTOR SHALL KEEP ONE SET OF PLANS, REVIEWED SHOP DRAWINGS AND WORKING DRAWINGS AVAILABLE ON THE PROJECT SITE AT ALL TIMES. THIS SET SHALL BE DEFINED AS THE "CONSTRUCTION DRAWINGS." THE CONTRACTOR SHALL NOTE ON THESE CONSTRUCTION DRAWINGS ALL CHANGES AND DEVIATIONS FROM THE WORK SHOWN ON THE PLANS, SHOP DRAWINGS AND WORKING DRAWINGS. THE CONSTRUCTION DRAWINGS SHALL BE KEPT CURRENT AS THE WORK PROGRESSES AND NOTATION SHALL BE MADE WITHIN SEVEN DAYS OF THE CHANGE OR DEVIATION. THE FIRST SHEET OR PAGE OF EACH SET OF CONSTRUCTION DRAWINGS SHALL BE STAMPED "AS CONSTRUCTED" AND SIGNED BY THE CONTRACTOR. UPON COMPLETION OF THE WORK AND PRIOR TO FINAL PAYMENT, THE CONSTRUCTION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.
32. AERIAL TOPOGRAPHIC MAPPING APPROXIMATELY 15 YEARS OLD WAS USED TO DESIGN THIS PROJECT. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE EXISTING CONDITIONS AT EACH SITE.
33. IT IS ESTIMATED THAT 40 HRS OF BLADING, BACKHOE, AND COMBINATION LOADER WILL BE REQUIRED ON PROJECT AS DIRECTED BY THE ENGINEER.
34. ALL COMM. CABLES SHALL BE FURNISHED AND INSTALLED WITH AN ADDITIONAL 15'-0" COILED AT DEVICES ON BOTH ENDS OF CABLES. FINAL CONNECTION SHALL BE MADE BY CDOT STATE FORCES.

CALL UTILITY NOTIFICATION CENTER OF COLORADO 1-800-922-1987	CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES
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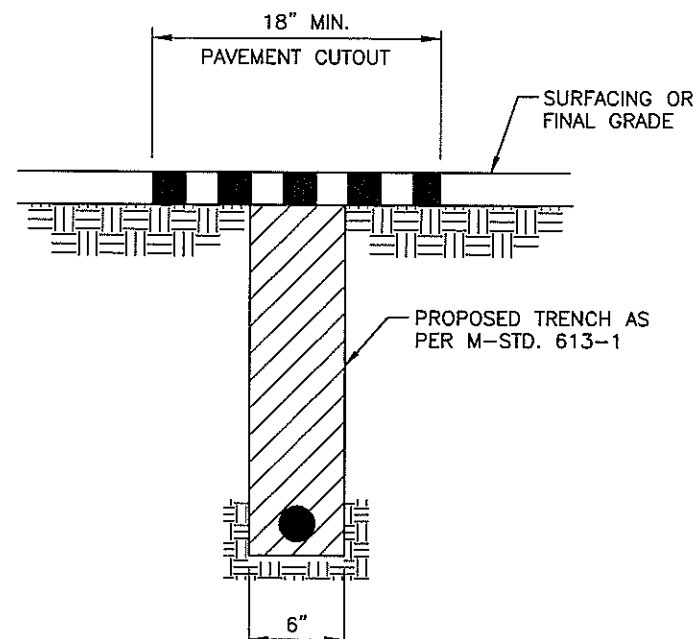
Computer File Information		Index of Revisions		 Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343	 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276	As Constructed		GENERAL NOTES		Project No./Code	
Creation Date: 02/18/08	Initials: SRB	<input type="checkbox"/>				No. Revisions:					IM 070A-003
Last Modification Date: 03/25/08	Initials: BEG	<input type="checkbox"/>				Revised:	Designer: SRB	Structure			16701
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TRENCHING IN FILL

NOTES:

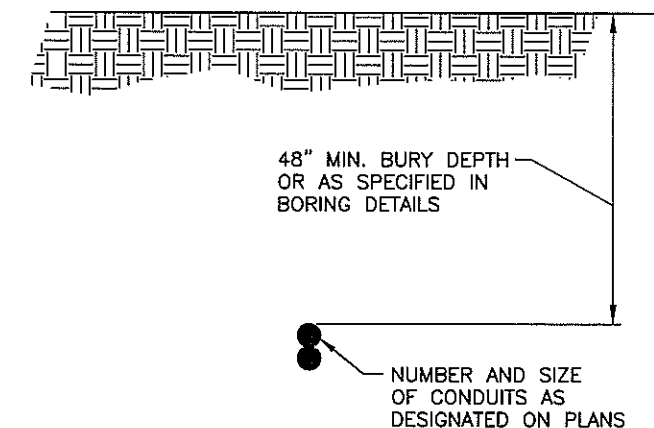
1. THIS WORK SHALL BE PAID AS: ITEM 613, 2½ INCH ELECTRICAL CONDUIT (PLASTIC). LATERALS LESS THAN 100' LONG ASSUMED TO BE STICK-TYPE CONDUIT (PVC SCHEDULE 80), AND LATERALS GREATER THAN 100' LONG ASSUMED TO BE REEL TYPE CONDUIT (HDPE SDR 13.5).
2. REFER TO M-STD. 613-1 FOR DETAILS OF TYPICAL CONDUIT BURIAL.



TRENCHING IN PAVEMENT

NOTES:



1. THIS WORK SHALL BE PAID FOR AS ITEM 613, 2½ INCH ELECTRICAL CONDUIT (PLASTIC).
2. CONDUIT SHALL BE HDPE SDR 13.5 AND SHALL HAVE NO JOINTS BETWEEN PULL BOXES. WATERTIGHT CONDUIT PLUGS SHALL BE PROVIDED AT EACH END OF CONDUIT PER PROJECT SPECIAL PROVISION.
3. REFER TO M-STD. 613-1 FOR DETAILS OF TYPICAL CONDUIT BURIAL.



DIRECTIONAL BORE

NOTE:



1. DIRECTIONAL BORES SHALL BE PAID AS ITEM 613, 3\"/>

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Creation Date: 02/18/08	Initials: SRB							No. Revisions:			IM 070A-003	
Last Modification Date: 03/25/08	Initials: BEG					Revised:	Designer: SRB	Structure			16701	
Full Path: S:\Tranpro\100000508\16701\Consultants\Plot_Sets\FOR						Void:	Detailer: SRB	Numbers				
Drawing File Name: borings.dgn							Sheet Subset: Typical	Subset Sheets:	1 of 1		Sheet Number: 3	
Scale: Units: ENGLISH												

PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	NEW OR REVISED	S STANDARD TITLE	PAGE NUMBER
<input checked="" type="checkbox"/> M-100-1	<input type="checkbox"/>	STANDARD SYMBOLS (3 SHEETS)	1-3	<input type="checkbox"/> M-607-1	<input type="checkbox"/>	WIRE FENCES AND GATES (3 SHEETS)	84-86	<input checked="" type="checkbox"/> S-612-1	<input type="checkbox"/>	DELINEATOR INSTALLATIONS (5 SHEETS)	131-135
<input type="checkbox"/> M-203-1	<input type="checkbox"/>	APPROACH ROADS	4	<input type="checkbox"/> M-607-2	<input type="checkbox"/>	CHAIN LINK FENCE (3 SHEETS)	87-89	<input checked="" type="checkbox"/> S-614-1	<input type="checkbox"/>	GROUND SIGN PLACEMENT (2 SHEETS)	136-137
<input type="checkbox"/> M-203-2	<input type="checkbox"/>	DITCH TYPES	5	<input type="checkbox"/> M-607-3	<input type="checkbox"/>	BARRIER FENCE	90	<input checked="" type="checkbox"/> S-614-2	<input type="checkbox"/>	CLASS I SIGNS	138
<input type="checkbox"/> M-203-11	<input type="checkbox"/>	SUPERELEVATION CROWNED AND DIVIDED HIGHWAYS (3 SHEETS)	6-8	<input type="checkbox"/> M-607-4	<input type="checkbox"/>	DEER FENCE AND GATES (2 SHEETS)	91-92	<input checked="" type="checkbox"/> S-614-3	<input type="checkbox"/>	CLASS II SIGNS	139
<input type="checkbox"/> M-203-12	<input type="checkbox"/>	SUPERELEVATION STREETS (2 SHEETS)	9-10	<input type="checkbox"/> M-607-10	<input type="checkbox"/>	PICKET SNOW FENCE	93	<input checked="" type="checkbox"/> S-614-4	<input type="checkbox"/>	CLASS III SIGNS (3 SHEETS)	140-142
<input checked="" type="checkbox"/> M-206-1	<input type="checkbox"/>	EXCAVATION AND BACKFILL FOR STRUCTURES (2 SHEETS)	11-12	<input type="checkbox"/> M-607-15	<input type="checkbox"/>	ROAD CLOSURE GATE (9 SHEETS)	94-102	<input checked="" type="checkbox"/> S-614-5	<input type="checkbox"/>	BREAK-AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS (2 SHEETS)	143-144
<input type="checkbox"/> M-206-2	<input type="checkbox"/>	EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS)	13-14	<input type="checkbox"/> M-608-1	<input type="checkbox"/>	CURB RAMPS (4 SHEETS)	103-106	<input checked="" type="checkbox"/> S-614-6	<input type="checkbox"/>	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS (2 SHEETS)	145-146
<input checked="" type="checkbox"/> M-208-1	<input type="checkbox"/>	TEMPORARY EROSION CONTROL (7 SHEETS)	15-21	<input type="checkbox"/> M-609-1	<input type="checkbox"/>	CURBS, GUTTERS, AND SIDEWALKS (3 SHEETS)	107-109	<input checked="" type="checkbox"/> S-614-8	<input type="checkbox"/>	TUBULAR STEEL SIGN SUPPORT DETAILS (5 SHEETS)	147-151
<input type="checkbox"/> M-210-1	<input type="checkbox"/>	MAILBOX SUPPORTS (2 SHEETS)	22-23	<input type="checkbox"/> M-611-1	<input type="checkbox"/>	CATTLE GUARD (2 SHEETS)	110-111	<input checked="" type="checkbox"/> S-614-10	<input type="checkbox"/>	MARKER ASSEMBLY INSTALLATIONS	152
<input type="checkbox"/> M-214-1	<input type="checkbox"/>	PLANTING DETAILS	24	<input checked="" type="checkbox"/> M-613-1	<input type="checkbox"/>	ROADWAY LIGHTING (4 SHEETS)	112-115	<input type="checkbox"/> S-614-12	<input type="checkbox"/>	STRUCTURE NUMBER INSTALLATION	153
<input type="checkbox"/> M-412-1	<input type="checkbox"/>	CONCRETE PAVEMENT JOINTS (5 SHEETS)	25-29	<input type="checkbox"/> M-614-1	<input type="checkbox"/>	RUMBLE STRIPS (3 SHEETS)	116-118	<input checked="" type="checkbox"/> S-614-14	<input type="checkbox"/>	FLASHING BEACON AND SIGN INSTALLATIONS (3 SHEETS)	154-156
<input type="checkbox"/> M-510-1	<input type="checkbox"/>	STRUCTURAL PLATE PIPE H-20 LOADING	30	<input type="checkbox"/> M-614-2	<input type="checkbox"/>	SAND BARREL ARRAYS (2 SHEETS)	119-120	<input checked="" type="checkbox"/> S-614-20	<input type="checkbox"/>	TYPICAL POLE MOUNT SIGN INSTALLATIONS	157
<input type="checkbox"/> M-601-1	<input type="checkbox"/>	SINGLE CONCRETE BOX CULVERT (2 SHEETS)	31-32	<input type="checkbox"/> M-615-1	<input type="checkbox"/>	EMBANKMENT PROTECTOR TYPE 3	121	<input type="checkbox"/> S-614-21	<input type="checkbox"/>	CONCRETE BARRIER SIGN POST INSTALLATIONS	158
<input type="checkbox"/> M-601-2	<input type="checkbox"/>	DOUBLE CONCRETE BOX CULVERT (2 SHEETS)	33-34	<input type="checkbox"/> M-615-2	<input type="checkbox"/>	EMBANKMENT PROTECTOR TYPE 5	122	<input checked="" type="checkbox"/> S-614-22	<input type="checkbox"/>	TYPICAL MULTI-SIGN INSTALLATIONS	159
<input type="checkbox"/> M-601-3	<input type="checkbox"/>	TRIPLE CONCRETE BOX CULVERT (2 SHEETS)	35-36	<input type="checkbox"/> M-616-1	<input type="checkbox"/>	INVERTED SIPHON	123	<input type="checkbox"/> S-614-40	<input type="checkbox"/>	TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS (7 SHEETS)	160-166
<input type="checkbox"/> M-601-10	<input type="checkbox"/>	HEADWALL FOR PIPES	37	<input type="checkbox"/> M-620-1	<input type="checkbox"/>	FIELD LABORATORY CLASS 1	124	<input type="checkbox"/> S-614-40A	<input type="checkbox"/>	ALTERNATIVE TRAFFIC SIGNAL INSTALLATION DETAILS (5 SHEETS)	167-171
<input type="checkbox"/> M-601-11	<input type="checkbox"/>	TYPE "S" SADDLE HEADWALLS FOR PIPE	38	<input type="checkbox"/> M-620-2	<input type="checkbox"/>	FIELD LABORATORY CLASS 2	125	<input type="checkbox"/> S-614-50	<input type="checkbox"/>	MONOTUBE OVERHEAD SIGNS (14 SHEETS)	172-185
<input type="checkbox"/> M-601-12	<input type="checkbox"/>	HEADWALLS AND PIPE OUTLET PAVING	39	<input type="checkbox"/> M-620-11	<input type="checkbox"/>	FIELD OFFICE CLASS 1	126	<input checked="" type="checkbox"/> S-627-1	<input type="checkbox"/>	PAVEMENT MARKINGS (5 SHEETS)	186-190
<input type="checkbox"/> M-601-20	<input type="checkbox"/>	WINGWALLS FOR PIPE OR BOX CULVERTS	40	<input type="checkbox"/> M-620-12	<input type="checkbox"/>	FIELD OFFICE CLASS 2	127	<input checked="" type="checkbox"/> S-630-1	<input type="checkbox"/>	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION (12 SHEETS)	191-202
<input type="checkbox"/> M-603-1	<input type="checkbox"/>	METAL AND PLASTIC PIPE (2 SHEETS)	41-42	<input type="checkbox"/> M-629-1	<input type="checkbox"/>	SURVEY MONUMENTS (2 SHEETS)	128-129	<input checked="" type="checkbox"/> S-630-2	<input type="checkbox"/>	BARRICADES, DRUMS, CONCRETE BARRIERS (TEMP) AND VERTICAL PANELS	203
<input type="checkbox"/> M-603-2	<input type="checkbox"/>	REINFORCED CONCRETE PIPE	43					<input checked="" type="checkbox"/> S-630-3	<input type="checkbox"/>	FLASHING BEACON (PORTABLE) DETAILS	204
<input type="checkbox"/> M-603-3	<input type="checkbox"/>	PRECAST CONCRETE BOX CULVERT	44								
<input type="checkbox"/> M-603-10	<input type="checkbox"/>	CONCRETE AND METAL END SECTIONS (2 SHEETS)	45-46								
<input type="checkbox"/> M-604-10	<input type="checkbox"/>	INLET, TYPE C	47								
<input type="checkbox"/> M-604-11	<input type="checkbox"/>	INLET, TYPE D	48								
<input type="checkbox"/> M-604-12	<input type="checkbox"/>	CURB INLET TYPE R (2 SHEETS)	49-50								
<input type="checkbox"/> M-604-13	<input type="checkbox"/>	CONCRETE INLET TYPE 13	51								
<input type="checkbox"/> M-604-20	<input type="checkbox"/>	MANHOLES (3 SHEETS)	52-54								
<input type="checkbox"/> M-604-25	<input type="checkbox"/>	VANE GRATE INLET (5 SHEETS)	55-59								
<input type="checkbox"/> M-605-1	<input type="checkbox"/>	SUBSURFACE DRAINS	60								
<input type="checkbox"/> M-606-1	<input type="checkbox"/>	GUARDRAIL TYPE 3 W-BEAM (16 SHEETS)	61-76								
<input type="checkbox"/> M-606-13	<input type="checkbox"/>	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS)	77-80								
<input type="checkbox"/> M-606-14	<input type="checkbox"/>	PRECAST TYPE 7 CONCRETE BARRIER (3 SHEETS)	81-83								

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

COLORADO
 DEPARTMENT OF TRANSPORTATION
 STANDARD PLANS LIST
 M&S STANDARDS
 July 04, 2006

Computer File Information Creation Date: 02/18/08 Initials: SRB Last Modification Date: 03/25/08 Initials: SRB Full Path: S:\Tranpro\100000508\16701\Consultants\Plot_Sets\FOR Drawing File Name: gespn01.dgn Scale: Units: ENGLISH		Index of Revisions <table border="1"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																		 Region 1 18500 East Colfax Aurora, CO 80011 Phone: (303) 365-7340 FAX: (303) 365-7343 REGION I		 4601 DTC Blvd. Suite 700 Denver, CO 80237 Phone: (303) 221-7275 Fax: (303) 221-7276 DW		As Constructed No. Revisions: Revised: Void:		STANDARD PLANS LIST			Project No./Code IM 070A-003 16701 Sheet Number: 2	
								Designer: SRB Detailer: SRB Sheet Subset: Standard Subset Sheets:																						

