INFORMATION HANDOUT

For Contract No. 10-0Y1004
At Sta - 99 - R11.7/R15.0

Identified by
Project ID 1013000268

MATERIALS INFORMATION

Water Source Information

Manufacturer's Drawings for Alternative Flared Terminal System

Won, Randall@DOT

From: Palatino, Manuel C@DOT
Sent: Friday, October 09, 2015 10:52 AM
To: Won, Randall@DOT
Subject: FW: water availability source

FYI

From: Mike Kavarian [mailto:mikavarian@tid.org]
Sent: Friday, October 09, 2015 10:24 AM
To: Palatino, Manuel C@DOT
Cc: Mike Kavarian
Subject: RE: water availability source

Manny,

We have a process that customers like you would go through to pump water out of canal system. As of this time, we do allow contractors to pump water from our canal system as long as they contact us prior to pumping and fill out the appropriate paper work. I do not know what the policy may be next year if we are in the fifth year drought. But as of right now I could tell you yes we would have water available for your projects.

If you have any further questions, please do not hesitate to contact me.

Mike Kavarian
Water Distribution Department Manager
(209) 883-8381 (office)
(209) 535-3805 (mobile)
mikavarian@tid.org

From: Palatino, Manuel C@DOT [mailto:manuel.palatino@dot.ca.gov]
Sent: Friday, October 09, 2015 9:33 AM
To: Mike Kavarian
Subject: FW: water availability source

Good morning Mike,
Just an added information below that the project calculated water usage(non potable) will be 10,000 gallons.
I would greatly appreciate if you can respond to this email today so I can include it to the PS&E package.

Again, Thank you

Manny

From: Palatino, Manuel C@DOT
Sent: Thursday, October 08, 2015 9:36 AM
To: 'mikavarian@tid.org'
Subject: water availability source

Hello Mike,

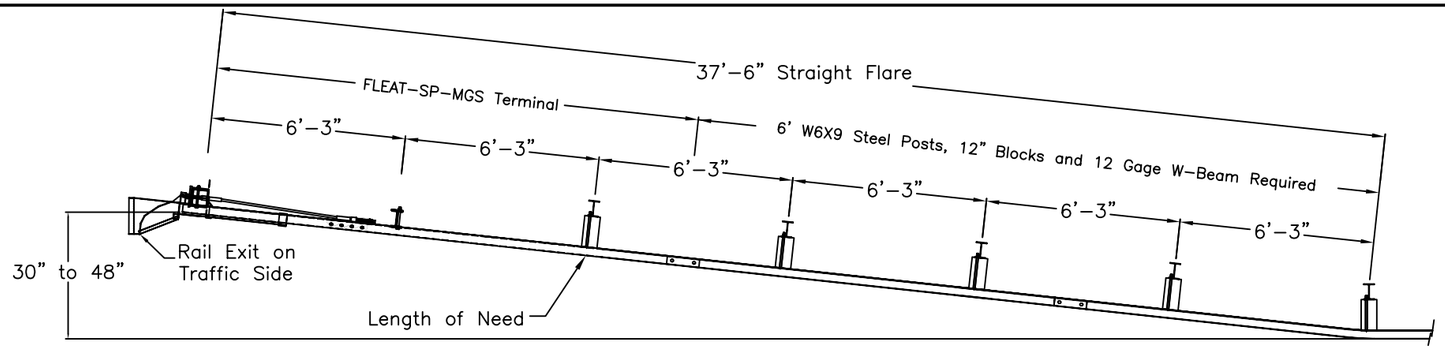
My name is Manuel Palatino and working as a Project Engineer with Caltrans. I am working on project with EA 10-0Y1001 that will start Construction by June 2016 and completed by December 2016. The project proposes to install Highway Lighting along the median on SR-99 in the City of Ceres, Stanislaus County. The project begins North Street Undercrossing to Tuolumne River bridge.

One of the requirement is to provide in each of our projects a non- potable water source in an information handout as part of our Plan,Specification, and Estimate (PS&E) package. I would like to know if the Turlock Irrigation District have either non-potable or potable water(if there's no non -potable)available that could be listed as a potential water source for this project. We understand that if the source is available, the contractor would contact TID to apply for permit prior to start of construction.

I would greatly appreciate if you could email me back to let me know if you do have a source.

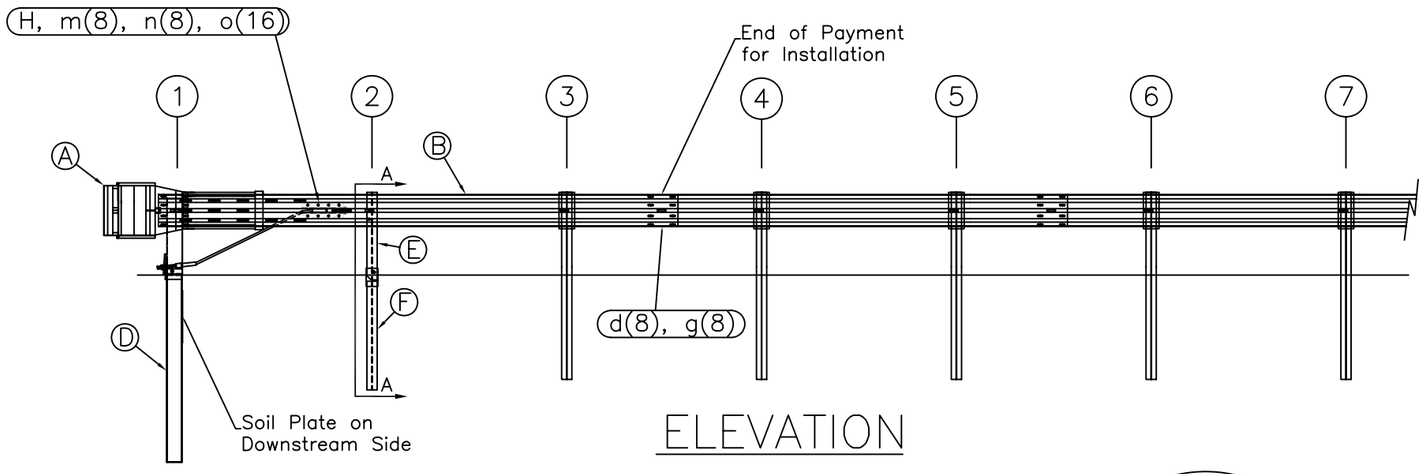
Please let me know If you have any questions or need of additional information about the project.

Thank You
Manny Palatino
Project Engineer
Central Region Design IV-Branch J
(209) 942-6028

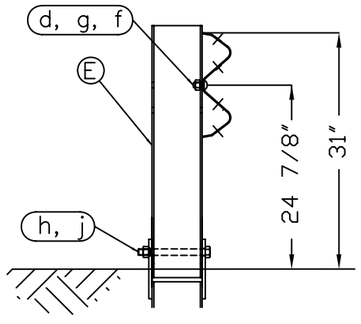


PLAN

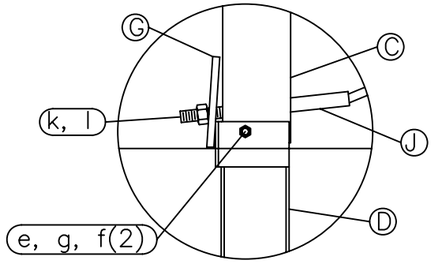
TRAFFIC



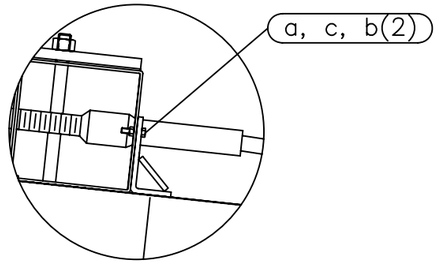
ELEVATION



SECTION A-A
Post #2



Post #1 Connection Detail



Impact Head Connection Detail

ITEM	QTY	BILL OF MATERIALS	ITEM NO.
A	1	IMPACT HEAD	F3000
B	1	W-BEAM GUARDRAIL END SECTION, 12 Ga.	MGS-SF1303
C	1	FIRST POST TOP (6X6X$\frac{1}{8}$" Tube)	TPHP1A
D	1	FIRST POST BOTTOM (6' W6X15)	TPHP1B
E	1	SECOND POST ASSEMBLY TOP	UHP2A
F	1	SECOND POST ASSEMBLY BOTTOM	HP3B
G	1	BEARING PLATE	E750
H	1	CABLE ANCHOR BOX	S760
J	1	BCT CABLE ANCHOR ASSEMBLY	E770
		HARDWARE (ALL DIMENSIONS IN INCHES)	
a	2	5/16 x 1 HEX BOLT GRD 5	B5160104A
b	4	5/16 WASHER	W0516
c	2	5/16 HEX NUT	N0516
d	9	5/8 Dia. x 1 1/4 SPLICE BOLT (POST #2)	B580122
e	1	5/8 Dia. x 9 HEX BOLT GRD 5	B580904A
f	3	5/8 WASHER	W050
g	10	5/8 Dia. H.G.R NUT	N050
h	1	3/4 Dia. x 8 1/2 HEX BOLT GRD A449	B340854A
j	1	3/4 Dia. HEX NUT	N030
k	2	1 ANCHOR CABLE HEX NUT	N100
l	2	1 ANCHOR CABLE WASHER	W100
m	8	CABLE ANCHOR BOX SHOULDER BOLT	SB58A
n	8	1/2 A325 STRUCTURAL NUT	N055A
o	16	1 1/16 OD x 9/16 ID A325 STR. WASHER	W050A

GENERAL NOTES:
1. All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
2. The lower sections of the Posts 1&2 shall not protrude more than 4 in above the ground (measured along a 5' cord). Site grading may be necessary to meet this requirement.
3. The lower sections of the hinged posts should not be driven with the upper post attached. If the post is placed in a drilled hole, the backfill material must be satisfactorily compacted to prevent settlement.
4. When competent rock is encountered, a 12" Ø post hole, 20 in. deep cored into the rock surface may be used if approved by the engineer for post 1. Granular material will be placed in the bottom of the hole, approximately 2.5" deep to provide drainage. The first post can be field cut to length, placed in the hole and backfilled with suitable backfill. The soil plate may be trimmed if required.
5. The breakaway cable assembly must be taut. A locking device (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.

RSI
Road Systems, Inc.
Big Spring, TX
Phone: 432-263-2435
or Phone: 330-346-0721

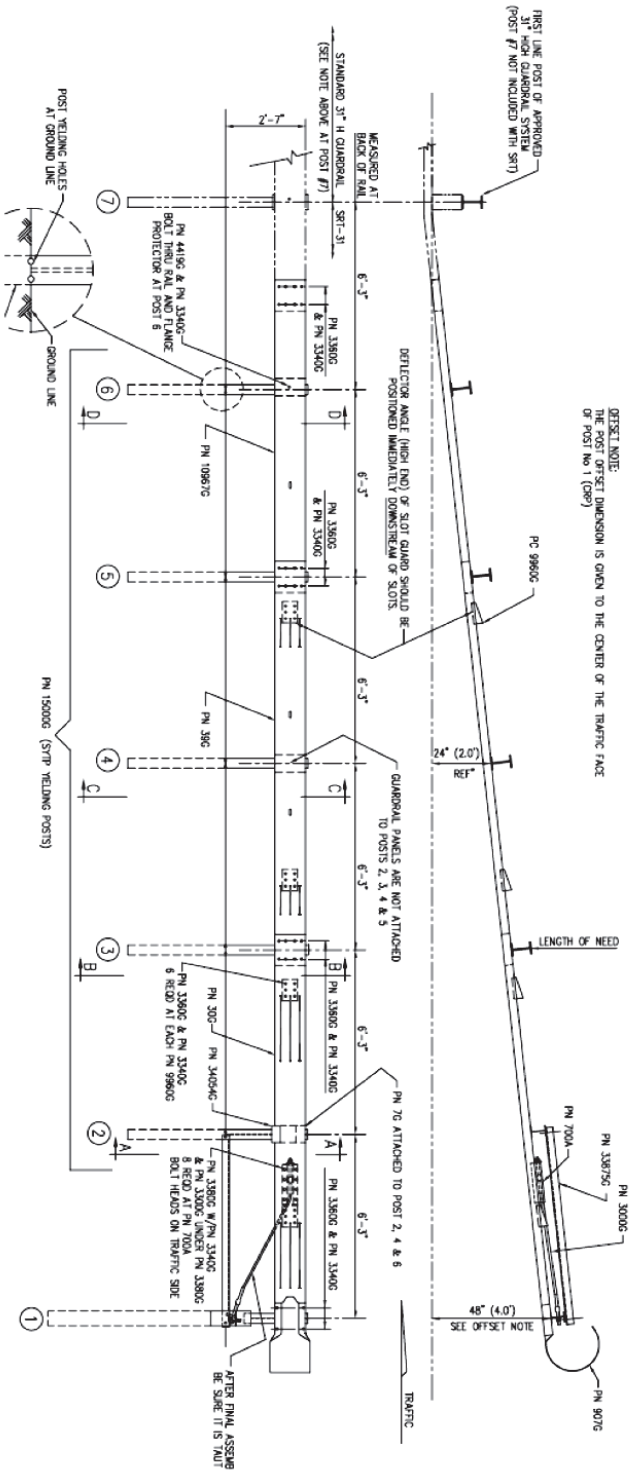
FLEAT-SP-MGS Terminal Midwest Guardrail System 31" Top of Rail

Sheet:	Date:	By:
1	02/24/10	JRR

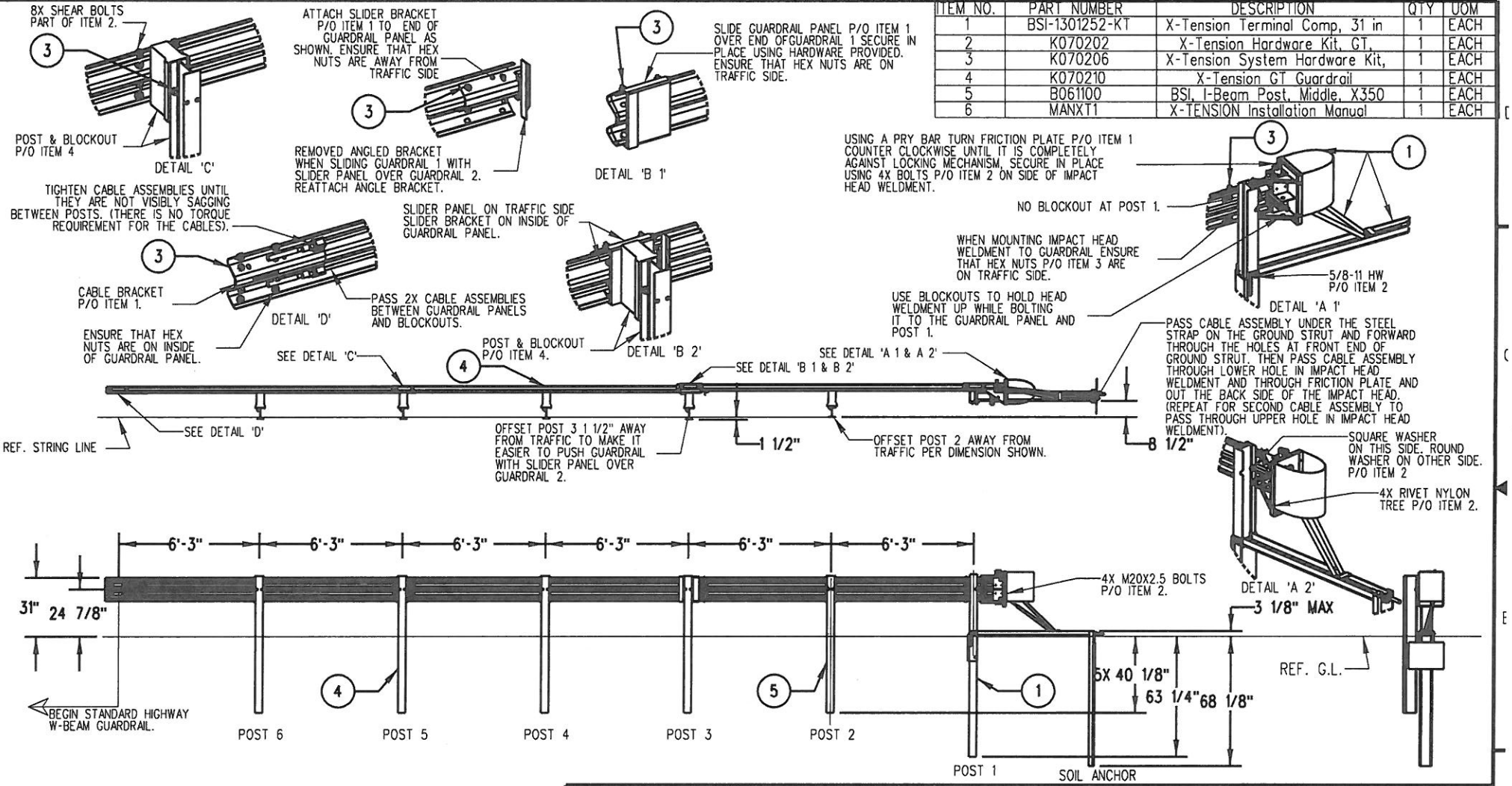
Drawing Name:	Scale:	Rev:
FLT-SP-S-MGS	None	0

SRT™-31 SYSTEM

FOR SPECIFIC INSTALLATION, MAINTENANCE, OR REPAIR DETAILS, REFER TO THE STATE/SPECIFYING AGENCY'S STANDARD DRAWING(S) AND/OR TRINITY STANDARD LAYOUT DRAWINGS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	UOM
1	BSI-1301252-KT	X-Tension Terminal Comp, 31 in	1	EACH
2	K070202	X-Tension Hardware Kit, GT,	1	EACH
3	K070206	X-Tension System Hardware Kit,	1	EACH
4	K070210	X-Tension GT Guardrail	1	EACH
5	B061100	BSI, I-Beam Post, Middle, X350	1	EACH
6	MANXT1	X-TENSION Installation Manual	1	EACH



NOTES: UNLESS OTHERWISE SPECIFIED.

1. SYSTEM TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
2. ONLY TIGHTEN THE CABLE ASSEMBLIES USING THE NUTS AT THE CABLE BRACKET (SEE DETAIL 'D'). DO NOT TIGHTEN THE CABLES AT THE FRONT OF THE GROUND ANCHOR.
3. WHEN DRIVING STEEL POST, ENSURE THAT A DRIVING CAP WITH TIMBER OR PLASTIC INSERT IS USED TO PREVENT DAMAGE TO THE GALVANIZING TO THE TOP OF THE POST.

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APPROVALS

DRAWN BY:	NMV
DRAWN DATE:	2/08/13
APPR'D BY:	JMT
APPR'D DATE:	2/08/13

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
FRACTIONS ±1/16 DECIMAL .XX ±.03 .XXX ±.010 ANGLES ±1/2°
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5-1994
THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING

REV	ECN#	DATE
B	2067	05/02/13
A	2022	2/08/13

LINDSAY TRANSPORTATION SOLUTIONS™
BARRIER SYSTEMS INC.
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Vacaville, CA 95688
Tel: 888-800-3691
www.barriersystemsinc.com

TITLE
X-TENSION GUARDRAIL TERMINAL SYSTEM
STEEL POST WITH COMPOSITE BLOCKOUT
31" RAIL HEIGHT

SIZE	DWG NO.	REV.
B	XTGTSS5	B

SCALE 1:50 SHEET 1 OF 1

Doc. B100108