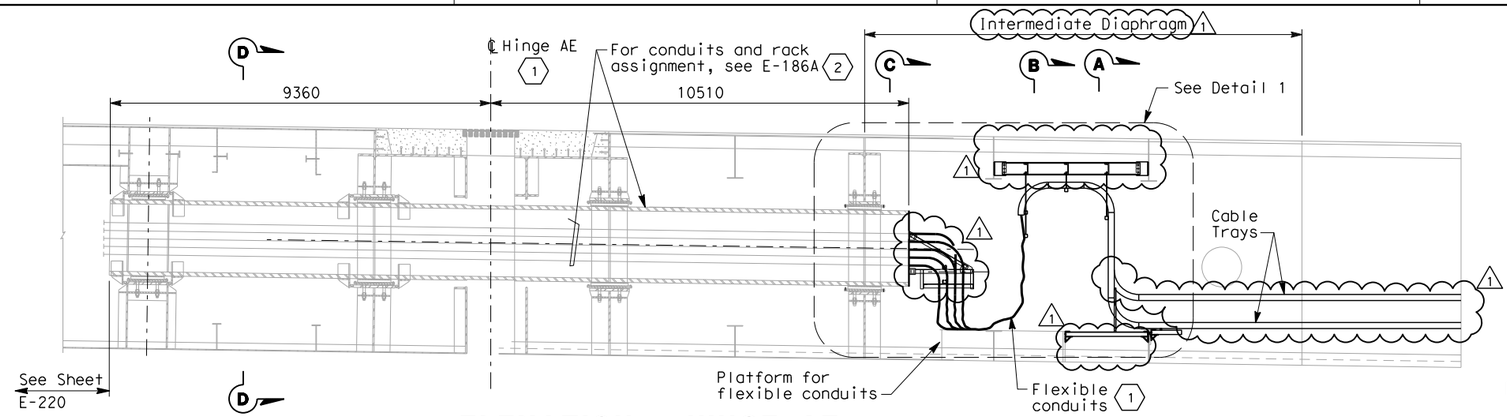
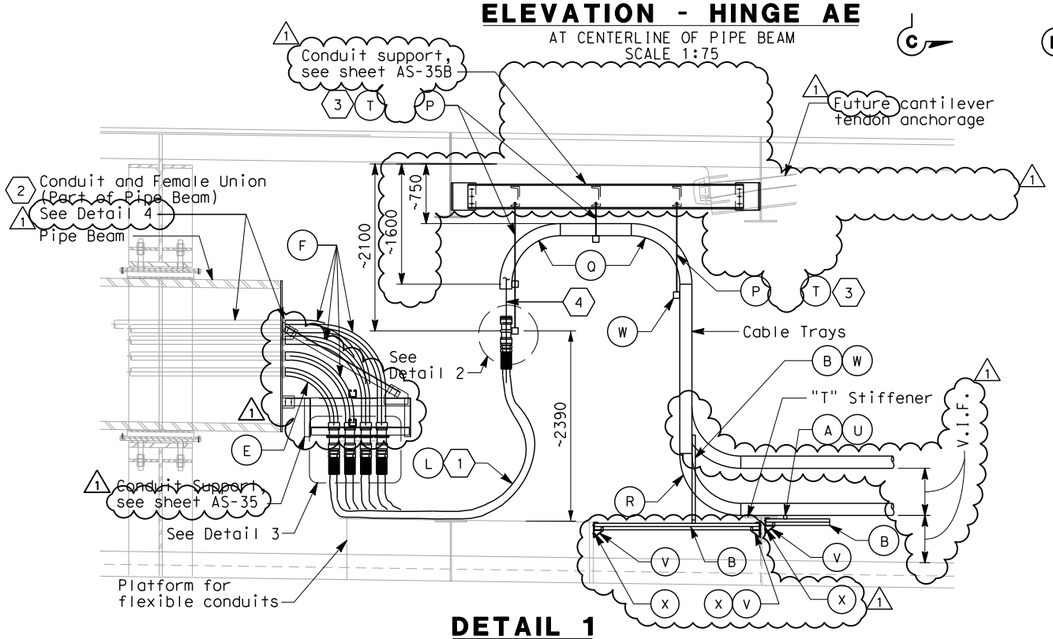


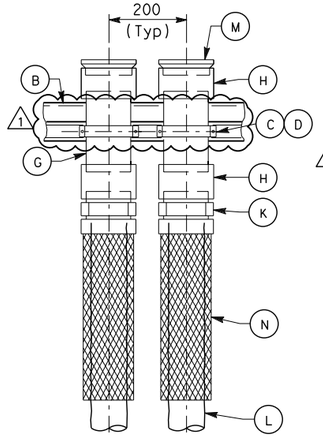
ELEVATION - HINGE AE

AT CENTERLINE OF PIPE BEAM
SCALE 1:75



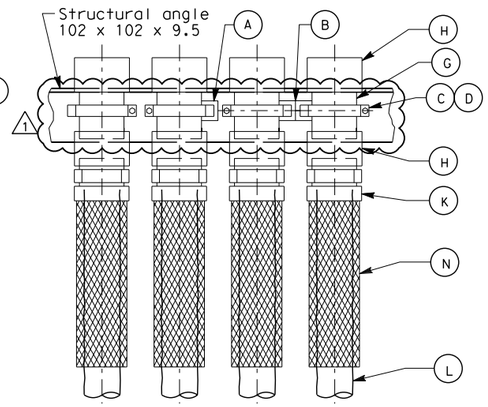
DETAIL 1

SCALE 1:40



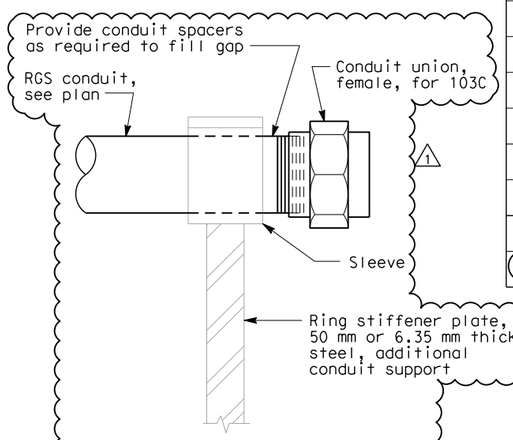
DETAIL 2

NO SCALE



DETAIL 3

NO SCALE



DETAIL 4

NO SCALE
TYPICAL CONDUIT END SUPPORT AT PIPE BEAM

MATERIAL LIST

Item No.	Description
A	Strut channel 41 mm x 41 mm
B	Strut channel combination 41 mm x 82 mm
C	Strut channel spring nut, lockwasher and hex bolt
D	Strut channel conduit clamp for 103 mm
E	Conduit elbow for 103 mm (Radius= 610 mm)
F	Conduit elbow for 103 mm (Radius= 752 mm)
G	Conduit nipple, 103 mm
H	Conduit coupling, 103 mm
J	DELETED 1
K	Connector, straight liquidtight flexible conduit for 103 mm
L	Liquidtight flexible conduit, 103 mm
M	Insulated bushed nipple for 103 mm conduit
N	Strain relief grips (or AMTEC conduit riser grip) for flexible conduit, 103 mm 1 1
P	Threaded steel hanger rod, 12 mm diameter
Q	Cable tray vertical outside bend
R	Cable tray vertical inside bend
T	Strut channel spring nut, tee-head bolt
U	Strut channel cable tray clamp for ladder or solid bottom tray
V	Bracket for 82 mm X 82 mm Strut Channel
W	Vertical tray hanger with splice plate hardware (bolted to side rail)
X	13Ø Bolt thru 'T' stiffener web/platform support w/ nut and washer 1

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	241 R1	1204

Jens Erlingsson 2/6/04
REGISTERED ELECTRICAL ENGINEER DATE

12-6-04
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — JENS ERLINGSSON No. 8249 Exp. 9/30/06 ELECTRICAL — STATE OF CALIFORNIA

PB POWER, Inc.
A Parsons Brinckerhoff Company
303 Second St., Suite 700N
San Francisco, CA 94107-1317

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REGISTERED PROFESSIONAL ENGINEER — DAVID H. OTO No. 10699 Exp. 06/30/2013 ELECTRICAL — STATE OF CALIFORNIA

David H. Oto
FOR REVISION ONLY
1

SHEET NOTES:

1. Hinge AE electrical design is based on the maximum expansion joint movement opening of 1243 mm.
2. Conduits through pipe beam shall be part of the pipe beam assembly. Conduit shall be welded together to form a continuous conduit inside the pipe beam, length as specified. The weld shall be smooth on the outside and free of burrs inside the conduit. Conduit fittings, like coupling, etc. to form a continuous conduit shall not be permitted as alternative. Pipe beam supplied by Skyway Structure.

   The intent of the conduit design is to be able to remove the entire length of conduit inside the pipe beam, in case maintenance is required inside the pipe beam assembly.
3. Cable tray hangers shall be located to provide working space in front of cantilever tendon anchorage. Field to adjust location accordingly, additional supports as required.
4. All cable/cables entering the liquidtight conduits from the cable trays shall be provided with strain relief cable/cables grips (or AMTEC conduit riser grip) attached from the vertical cable tray rungs. 1 1

NOTES:

1. Minimum radius of cable tray fittings shall be 610 mm.
2. Minimum radius of 103 mm conduit bends shall be 610 mm.
3. Cables/circuits passing through the hinge locations shall be provided with cable identification tag at both ends of Hinge.
4. For additional work related not shown on this drawing, see Electrical Special Provisions.
5. For Sections A-A and B-B, see sheet E-221B.
6. Sections C-C and D-D, see sheet E-221C.

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
1	03/27/13	ADDITIONAL SAS MISCELLANEOUS ELECTRICAL CHANGES	RR RSB	RG	191S2

CONTRACT CHANGE ORDER NO._____
SHEET _____ OF _____

DETAILS
SAS SUPERSTRUCTURE AND SKYWAY STRUCTURE GIRDER INTERFACE EASTBOUND HINGE AE

SCALE: 1:200

E-221A

DATE	CALCULATED/ DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
12/03	CYF	EJL	EJL	2/04
1/04	EJL			

DESIGN OVERSIGHT — BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

LAST REVISION 03-27-13 — DATE PLOTTED => 3/29/2013 — TIME PLOTTED => 10:37:45 AM

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

DGN FILE =>04-0120f1_0241R01.dgn
USERNAME =>Melsheimer

CU 04251 | EA 0120F1