

HANFORD, WA
MODULE IDENTIFICATION

46710
272757
510501
748245
985989
1223733
1461477
1699221
2006790
2027710
2335279
2573023
2810767
3048511
3286255
3523999
3761743
3987790

PUMP PORT LOCATIONS

NOTES (FOR DWG. #1 SHT. 1-4):

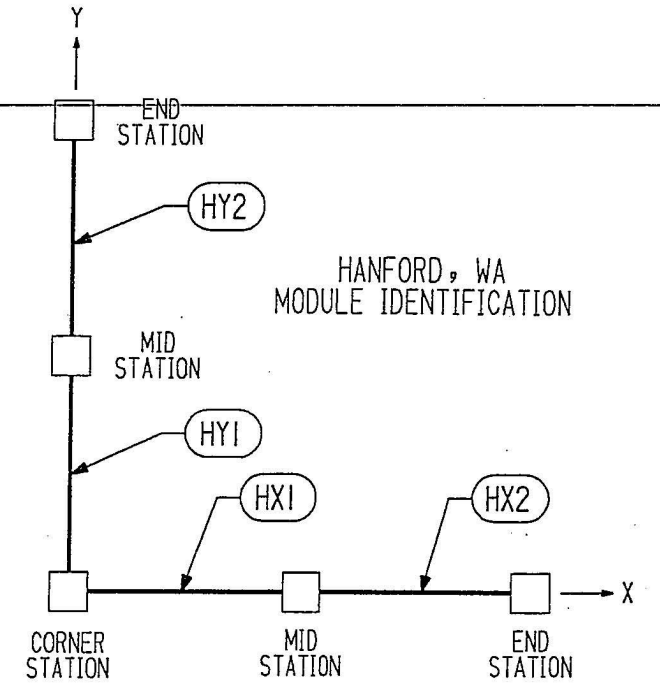
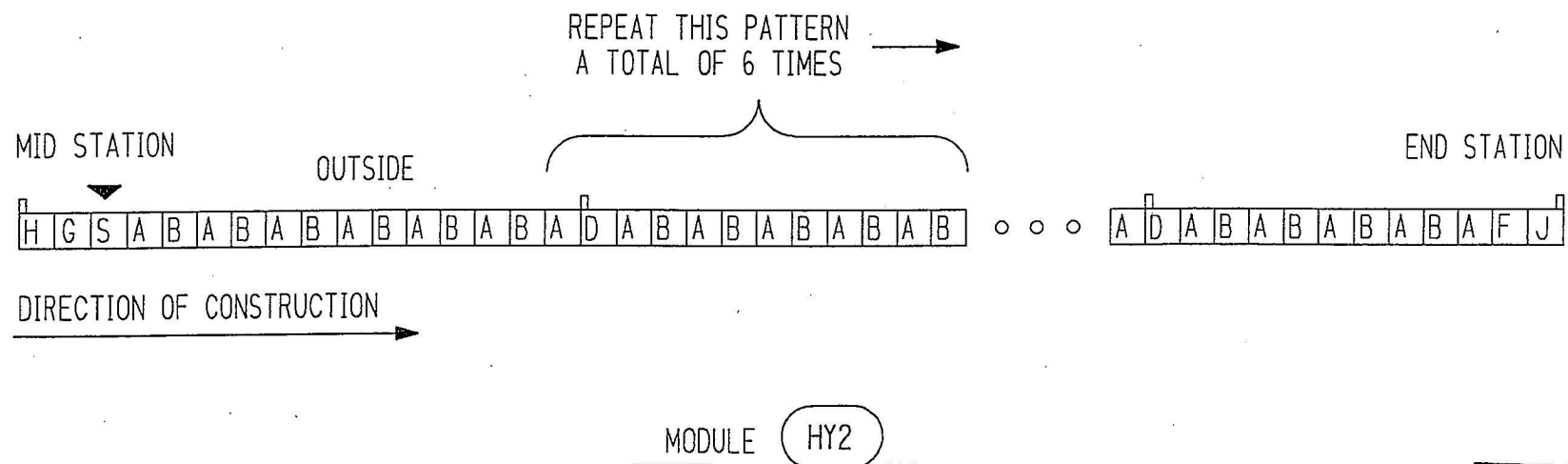
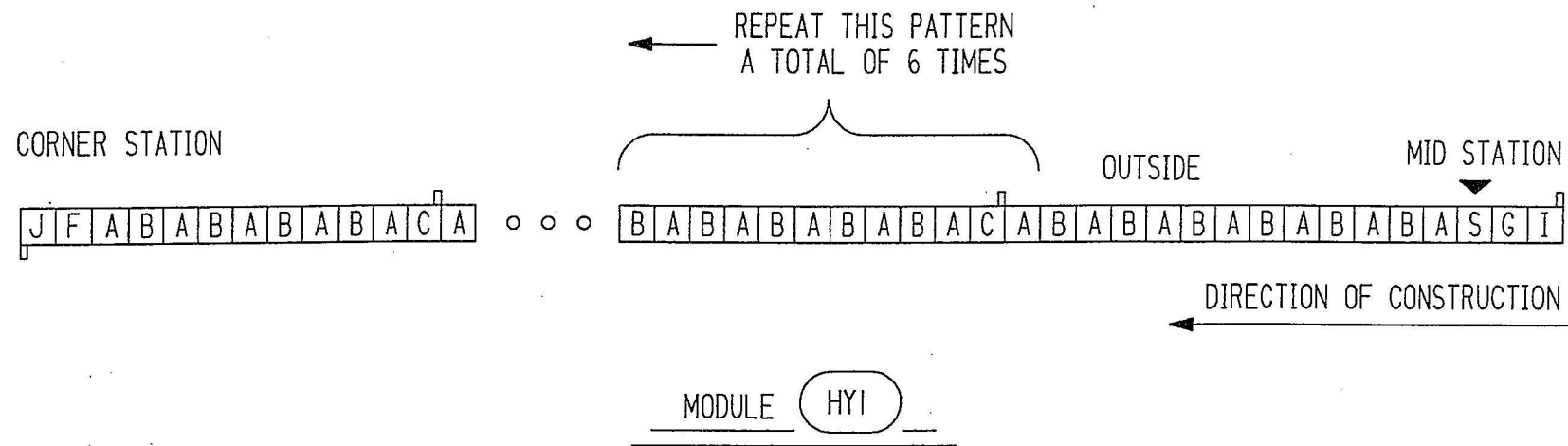
- PUMP PORTS ARE TO FACE OUTBOARD OF THE ANGLE BETWEEN THE ARMS EXCEPT AT THE CORNER STATION.
- CONSTRUCTION WILL START AT THE MIDSTATION AND PROCEED BOTH WAYS SIMULTANEOUSLY TOWARDS THE END STATION AND THE CORNER STATION FOR ALL MODULES.
- THE BEAM TUBES ARE TO BE KEPT UNDER COVER TO PROTECT THEM FROM THE ELEMENTS AND SUNLIGHT, EXCEPT AS LOCALLY NECESSARY FOR HANDLING, FABRICATION, AND ASSEMBLY OPERATIONS.
- LOCATE 'END-A' OF EACH BEAM TUBE SUB-ASSEMBLY TOWARDS THE MIDSTATION.
- ALL PUMP PORT LOCATION DIMENSIONS ARE MEASURED FROM THE VERTEX OF THE BEAM TUBES TO THE PUMP PORT CENTERLINE AND ARE GIVEN IN MILLIMETERS. THE TOLERANCE ON THE GIVEN LOCATIONS IS +/- 25 mm.
- PUMP PORT LOCATION DIMENSIONS ARE IDENTICAL FOR BOTH BEAM TUBE LEGS AT EACH SITE.
- ALL MODULES ARE COMPOSED OF 100 BEAM TUBE SUB-ASSEMBLIES.

APPROVED	
<i>M. Tellalian</i>	6-24-96
CBI	DATE
<i>J. Jones</i>	7/23/96
CALTECH	DATE

MODIFIED TUBE TYPES AND NOTES CHANGED REV. NO. TO BE IN SEQUENCE WITH CONTRACT 938212 ENTIRE DRAWING REVISED	CBI		SUPPLIER'S / PURCHASER'S NO
	LIGO BEAM TUBE HANFORD, WA & LIVINGSTON, LA		
	HANFORD BEAM TUBE MODULES (HX1) & (HX2)		
	CUSTOMER'S NO	CONTRACT NO	
BY ARL	CHKD MLT DATE 3-11-96	953571	
M. L. TELLALIAN ENGINEERING ASSIGNED		DWG	REV
SHT 1		6	6
LIGO-D950031-06-B			

55710101.DGN

▶ INDICATES CHANGE FROM PREVIOUS ISSUE



APPROVED

M. Tellalian 6-24-96

CBI DATE

S. Jones 7/23/96

CALTECH DATE

BY: ARL CHKD: M.L.T. DATE: 6-24-96 BY: ARL CHKD: M.L.T. DATE: 3-11-96		CHANGED REV. NO. TO BE IN SEQUENCE WITH CONTRACT 938212 ENTIRE DRAWING REVISED	
REMARKS CBI LIGO BEAM TUBE HANFORD, WA & LIVINGSTON, LA HANFORD BEAM TUBE MODULES (HY1) & (HY2)			
CUSTOMER'S NO. BY ARL CHKD M.L.T. DATE 3-11-96 M. L. TELLALIAN ENGINEERING ASSIGNED		CONTRACT NO. 953571 DWG 1 SHT 2 REV 6	
LIGO-D950031-06-B			

INDICATES CHANGE FROM PREVIOUS ISSUE

CORNER STATION

RLA B A B A B A B A B A C A

REPEAT THIS PATTERN
A TOTAL OF 6 TIMES

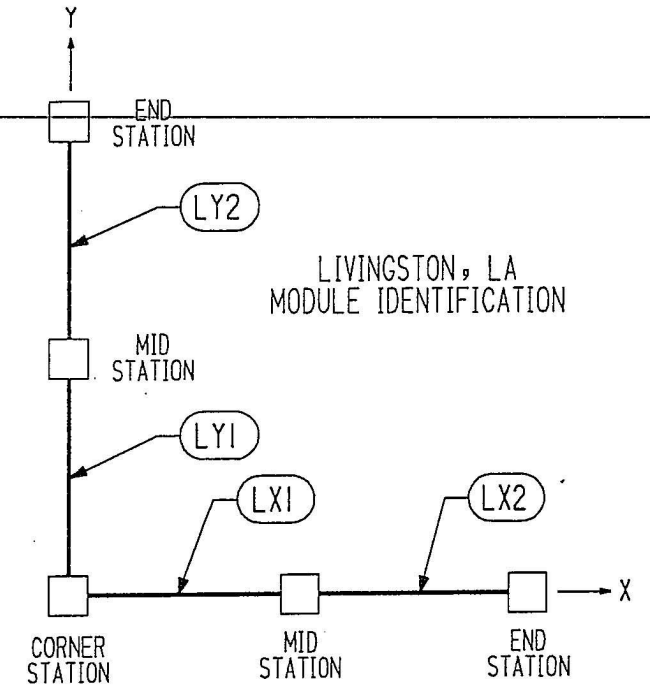


B A B A B A B A B A C A B A B A B A B A B A B A B A S M P

OUTSIDE MID STATION

DIRECTION OF CONSTRUCTION

MODULE LY1



MID STATION

Q M S A B A B A B A B A B A B A B A D A B A B A B A B A B

REPEAT THIS PATTERN
A TOTAL OF 6 TIMES



A D A B A B A B A B A B A B A L R

END STATION

DIRECTION OF CONSTRUCTION

MODULE LY2

APPROVED
M. Tellalian 6-24-96
 CBI DATE
J. Jones 7/23/96
 CALTECH DATE

MODIFIED TUBE TYPES		REMARKS	
BY	DATE	CBI LIGO BEAM TUBE HANFORD, WA & LIVINGSTON, LA LIVINGSTON BEAM TUBE MODULES (LY1) & (LY2) CUSTOMER'S NO. _____ CONTRACT NO. 953571 BY <u>ARL</u> CHKD <u>MLT</u> DATE <u>3-11-96</u> DWG 1 REV 6 M. L. TELLALIAN SHT 4 ENGINEERING ASSIGNED	
CHANGED REV. NO. TO BE IN	SEQUENCE WITH CONTRACT 930212		
BY	DATE		
ENTIRE DRAWING REVISED			
BY	DATE	LIGO-D950031-06-B	

55710401.DGN

INDICATES CHANGE FROM PREVIOUS ISSUE