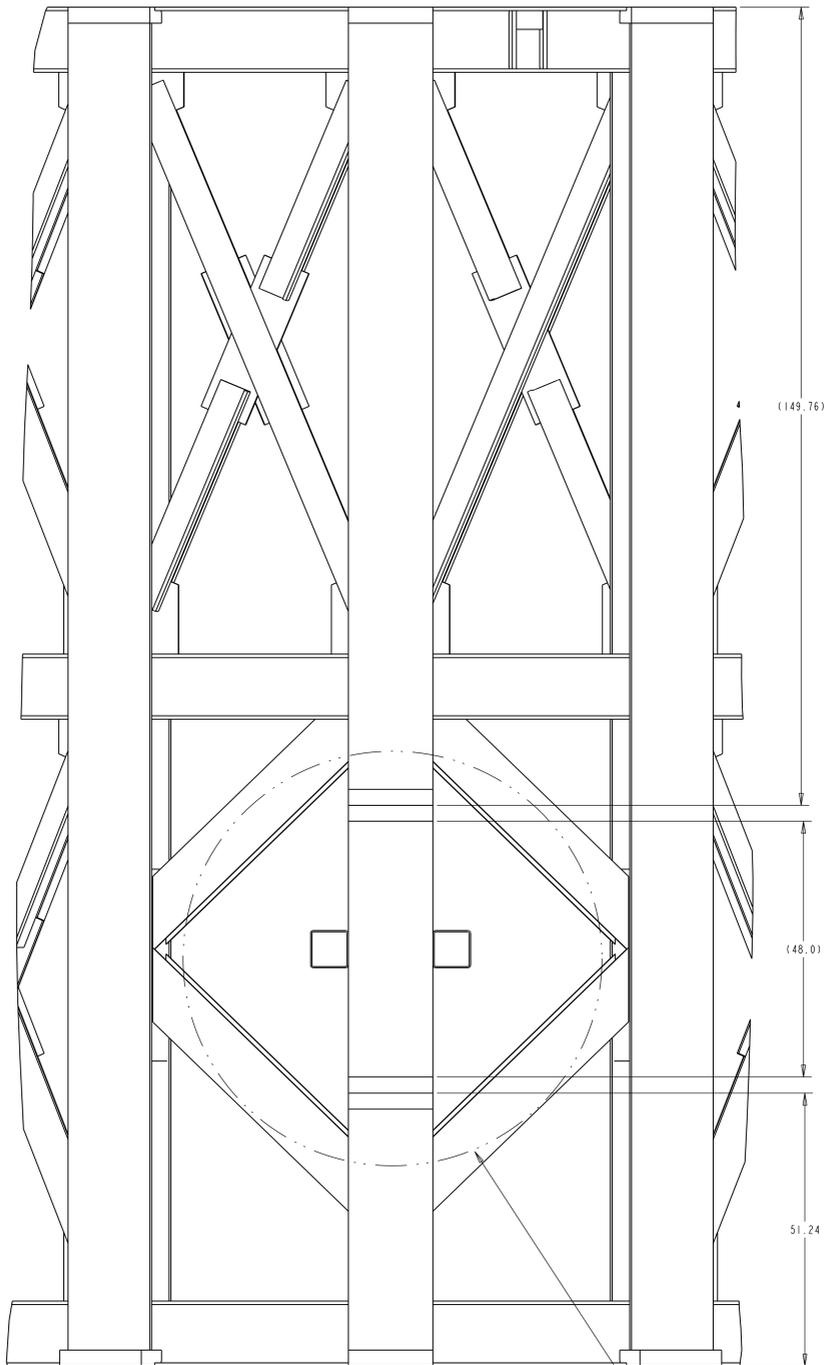


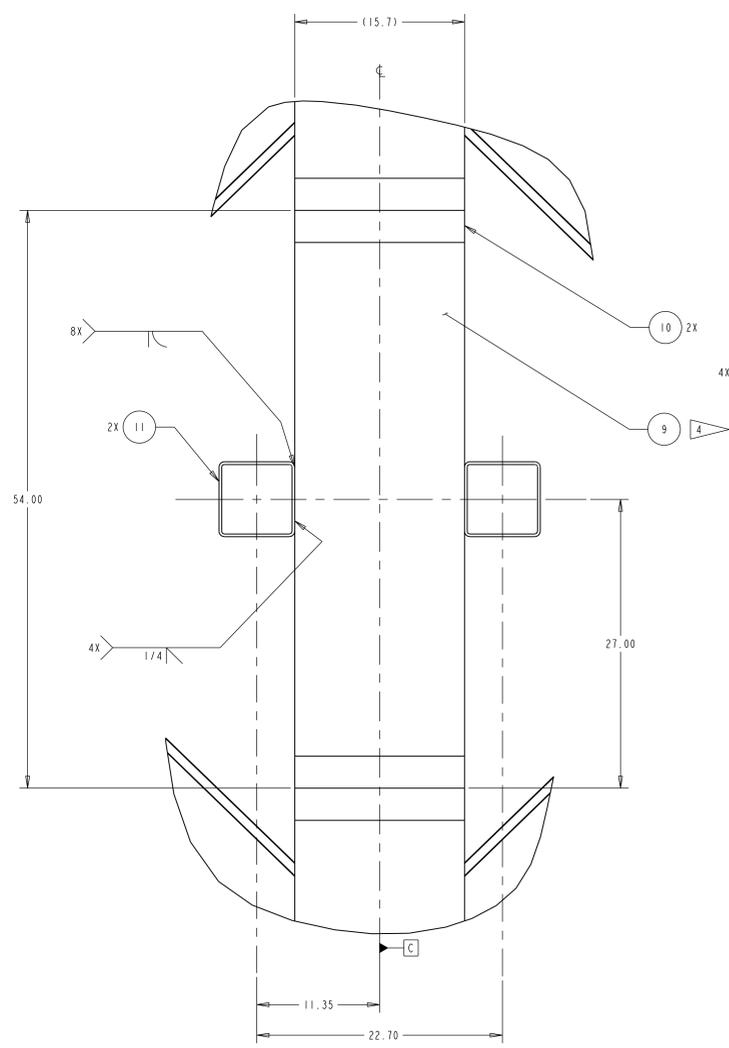
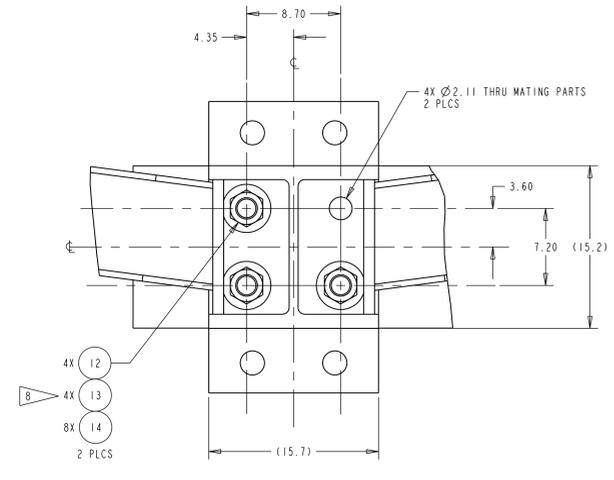
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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

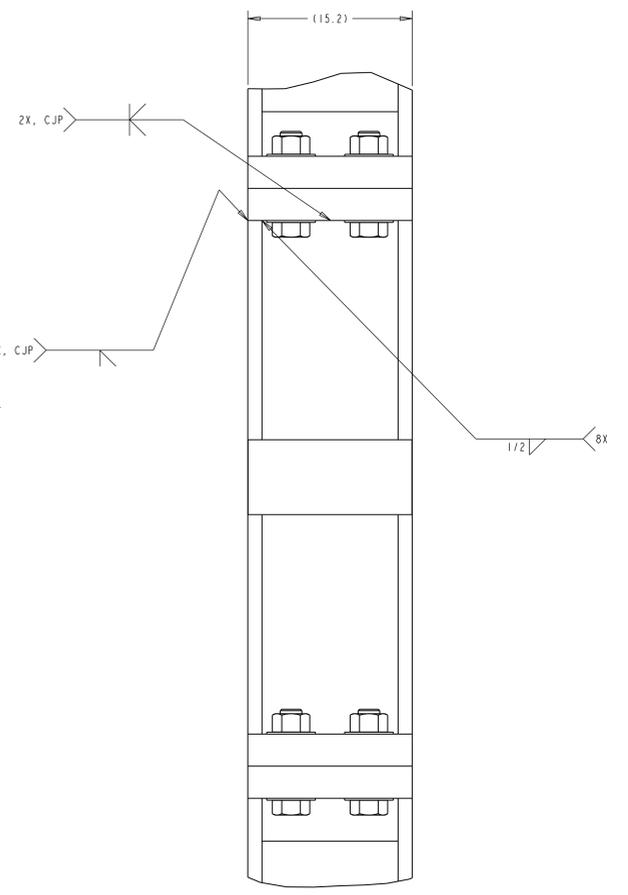


VIEW G 2X @ 180° APART
SCALE: 1/12
SHEET 1

SEE DETAIL K



DETAIL K
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY

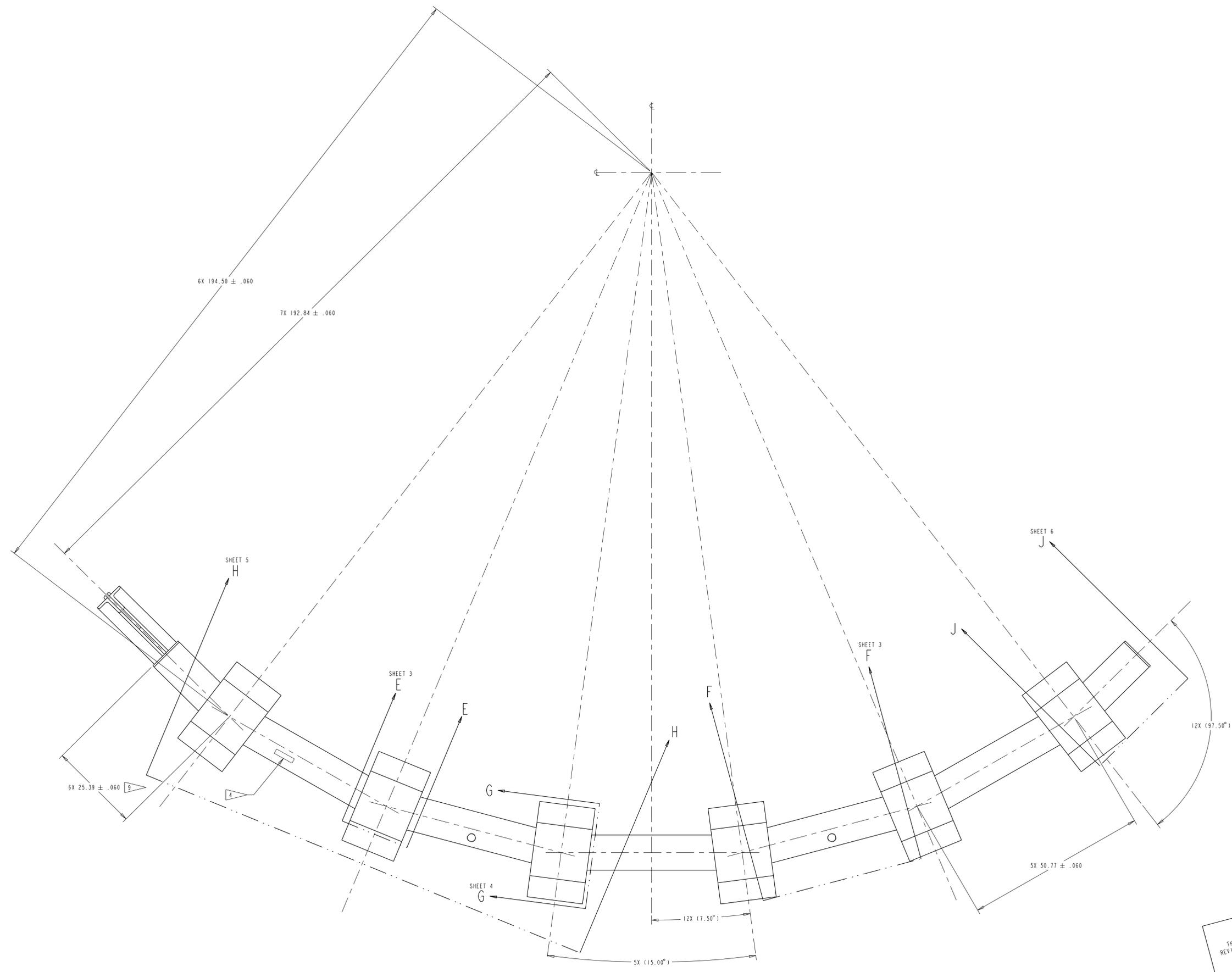


- PRELIMINARY -
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05-20-14
DATE

LOX LOWER PEDESTAL ASSEMBLY SLS LOX TEST	SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSO GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Huntsville, Alabama
90M14230	REVISION SEE SHT 1
REV E	4

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SYM	DESCRIPTION	DATE	APPROVAL



VIEW A
SCALE: 1/10
SHEET 1

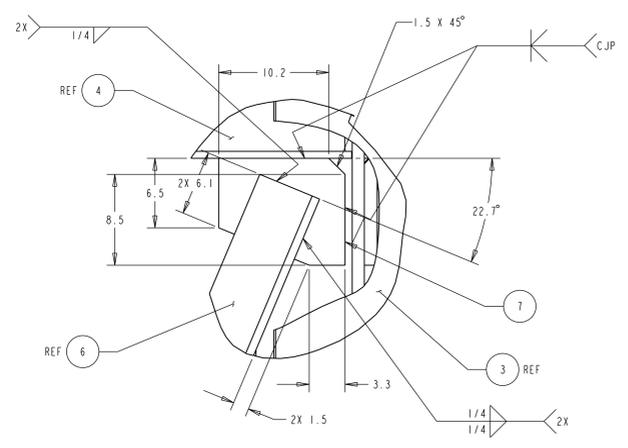
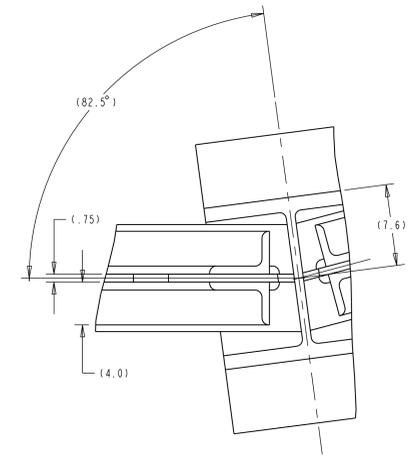
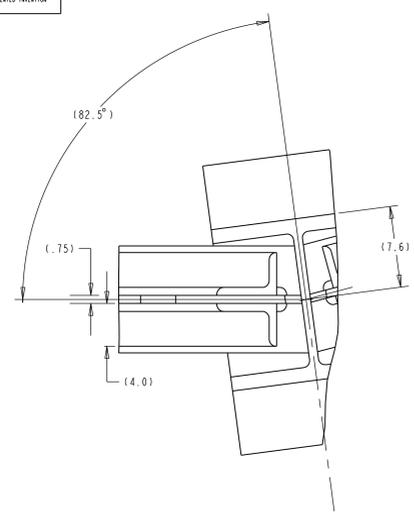
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THIS DRAWING HAS NOT COMPLETED THE
REVIEW PROCESS AND IS SUBJECT TO CHANGE.
04-28-14
DATE

LOX LOWER PEDESTAL SUMP 1 SECTION ASSEMBLY SLS LOX TEST		SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSO GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Huntsville, Alabama	
90M14231		REVISION SEE SHEET 1	6
DATE	REV	BY	APP
04-28-14	2	E	

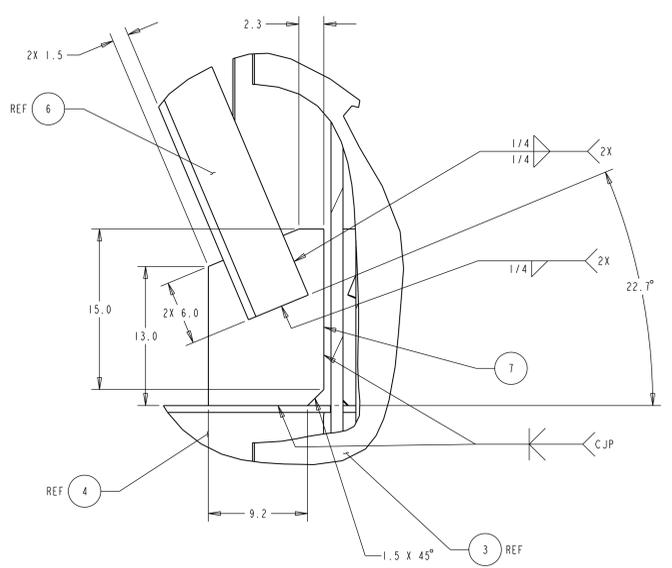
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SYM	DESCRIPTION	DATE	APPROVAL

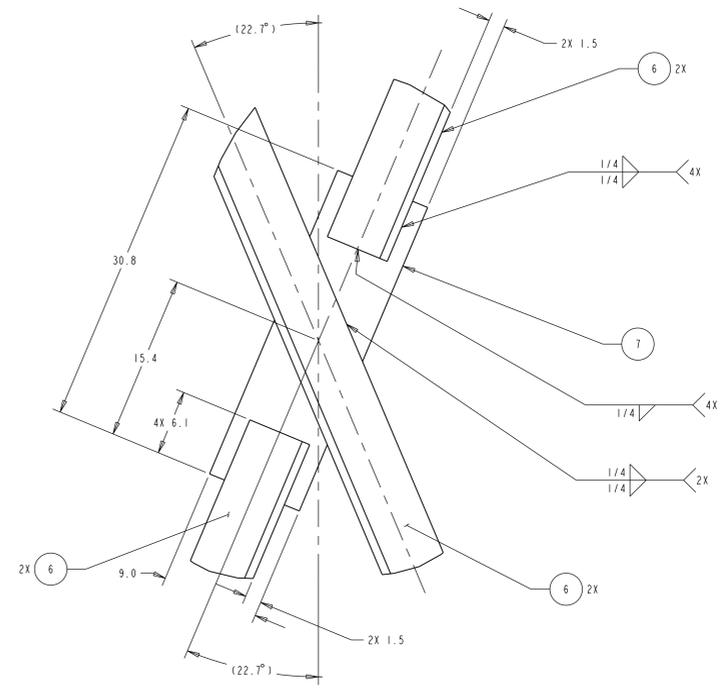
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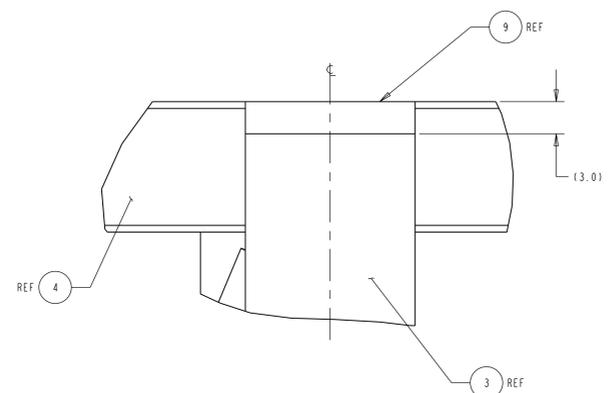
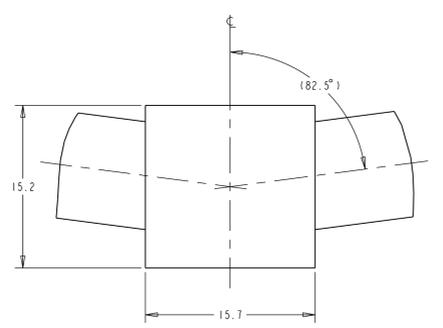
DETAIL B
SCALE: 1/6
SHEET 1, 16X; 9 SHOWN, 7 OPPOSITE
ALL PARTS NOT SHOWN FOR CLARITY



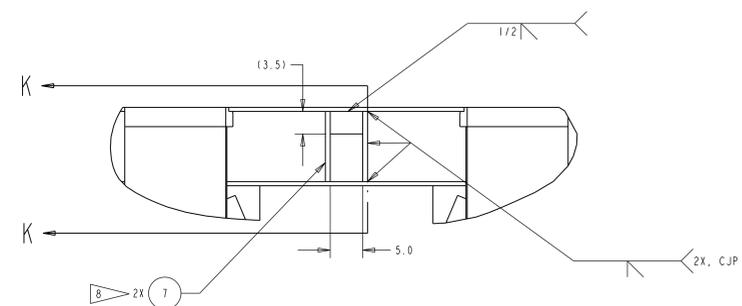
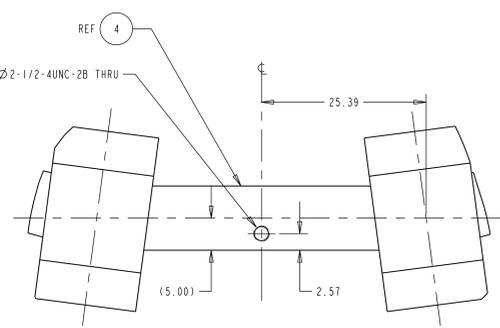
DETAIL C
SCALE: 1/6
SHEET 1, 16X; 9 SHOWN, 7 OPPOSITE
ALL PARTS NOT SHOWN FOR CLARITY



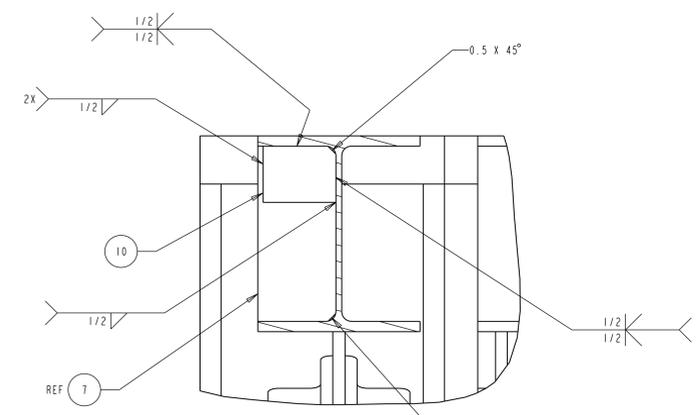
VIEW D 9X
SCALE: 1/6
SHEET 1



VIEW E 6X
SCALE: 1/6
SHEET 2



VIEW F 2X
SCALE: 1/10
SHEET 2
ALL PARTS NOT SHOWN FOR CLARITY



SECTION K-K
SCALE: 1/4
GUSSET REMOVED FOR CLARITY

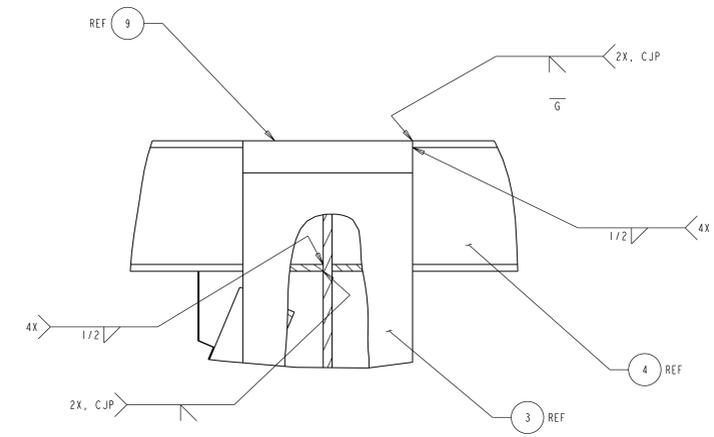
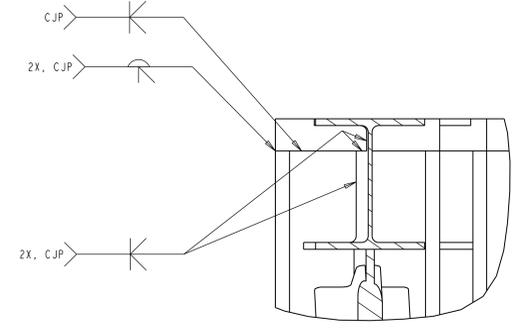
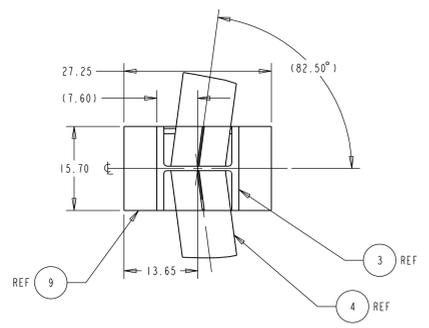
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04-28-14
DATE

LOX LOWER PEDESTAL
SUMP 1 SECTION
ASSEMBLY
SLS LOX TEST

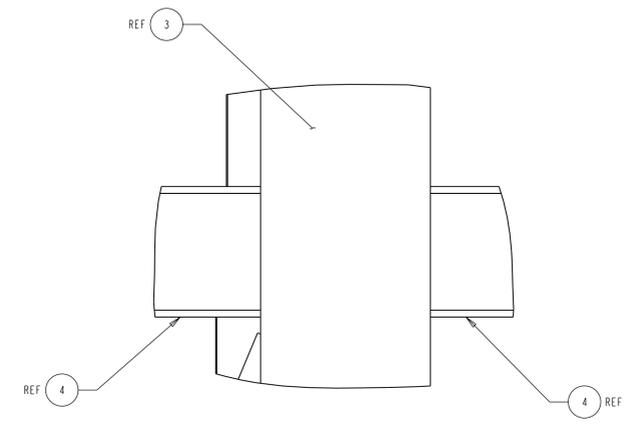
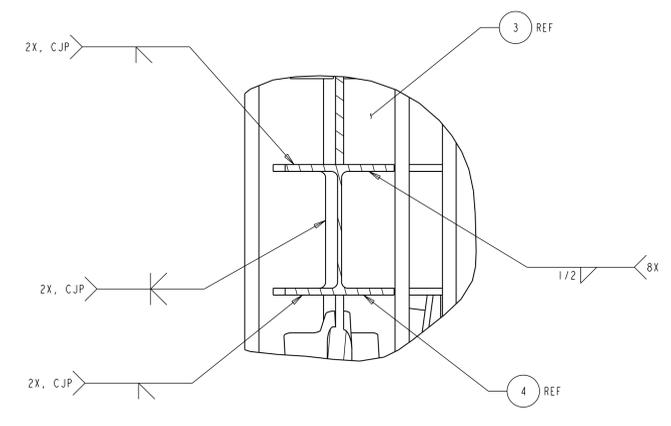
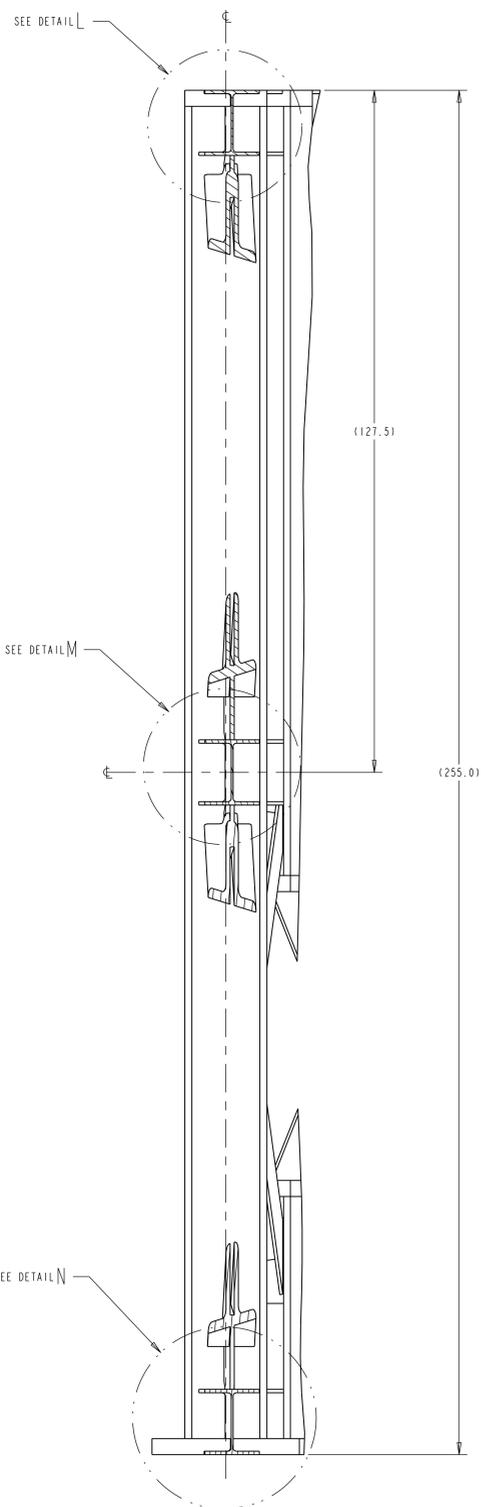
SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSD GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MOBILE, ALABAMA	REVISION 90M14231 SEE SHT 1
DATE 04-28-14	3

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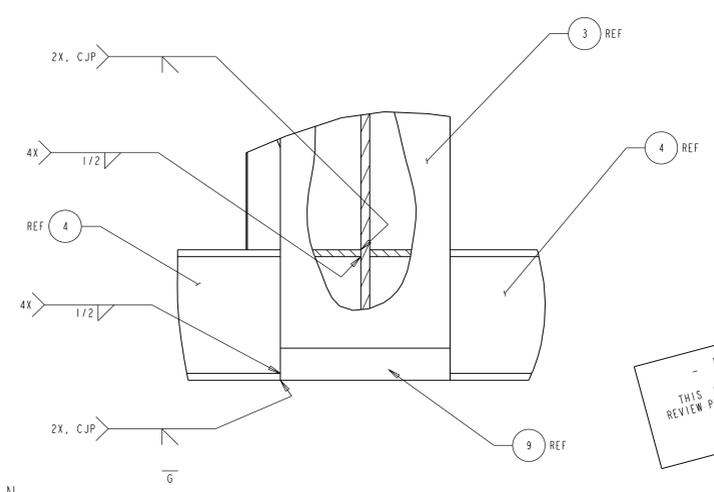
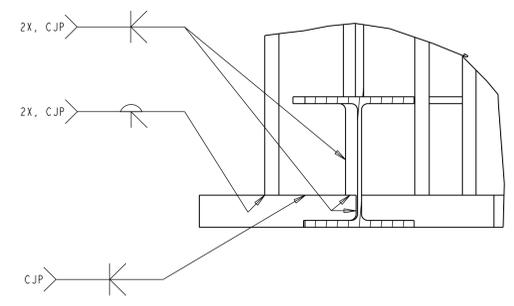
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL



DETAIL L 6X
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY



DETAIL M 6X
SCALE: 1/6



DETAIL N 6X
SCALE: 1/6

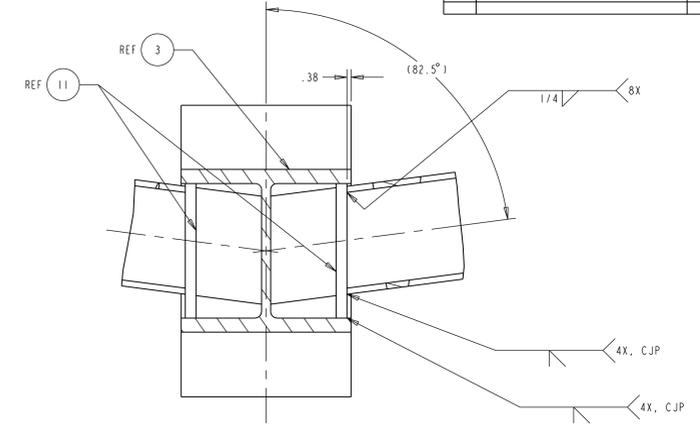
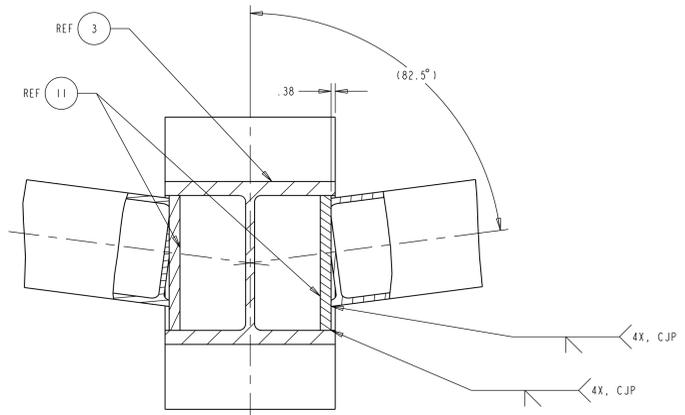
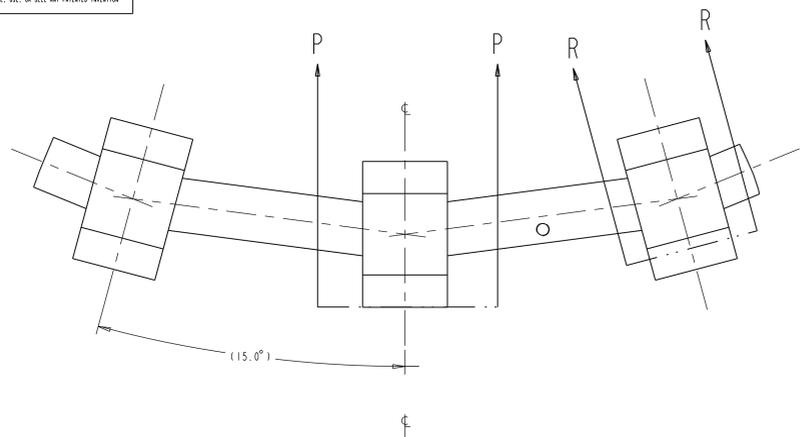
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04-28-14
DATE

SECTION G-G
SCALE: 1/12
ALL PARTS NOT SHOWN FOR CLARITY
SHEET 2

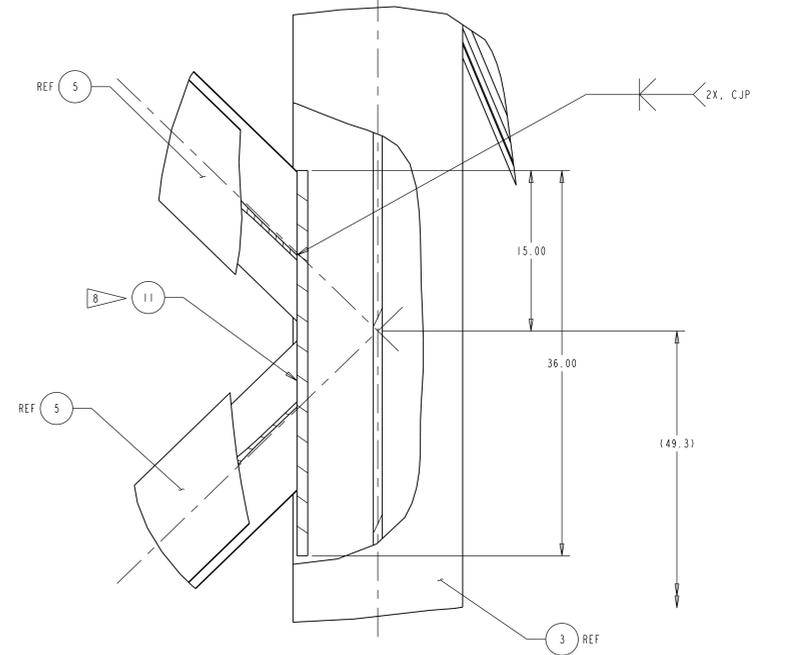
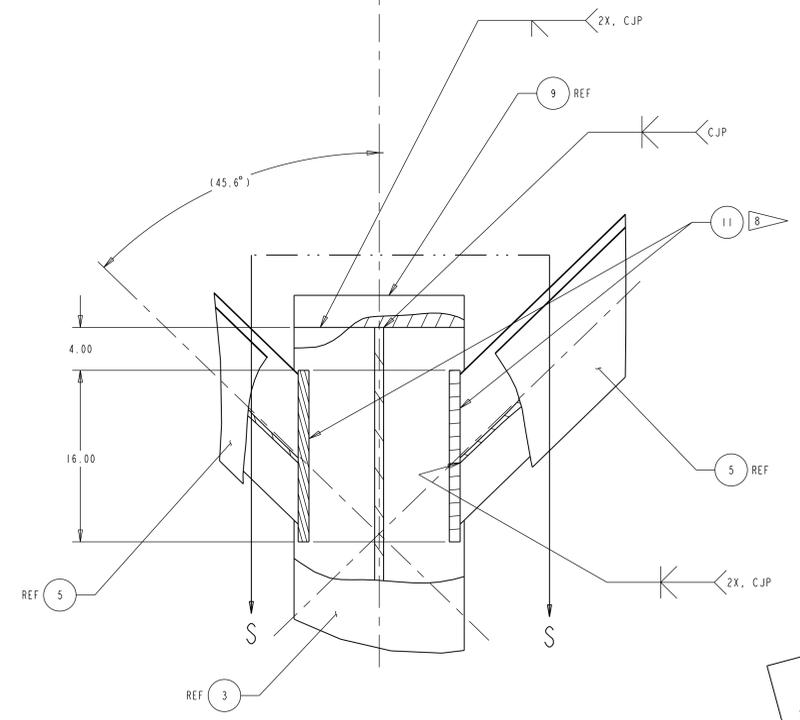
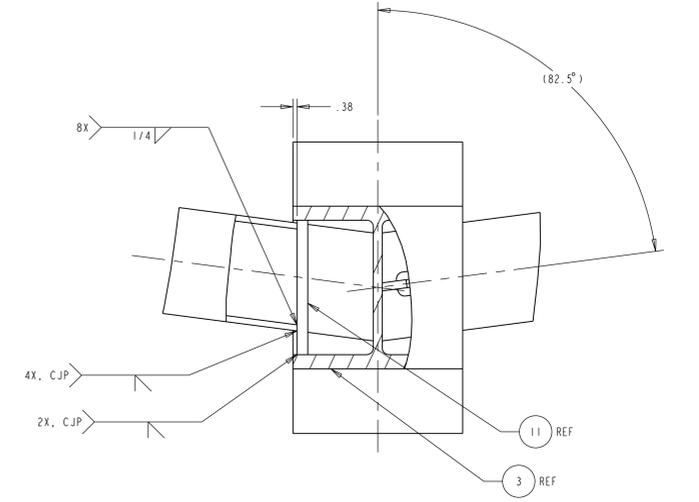
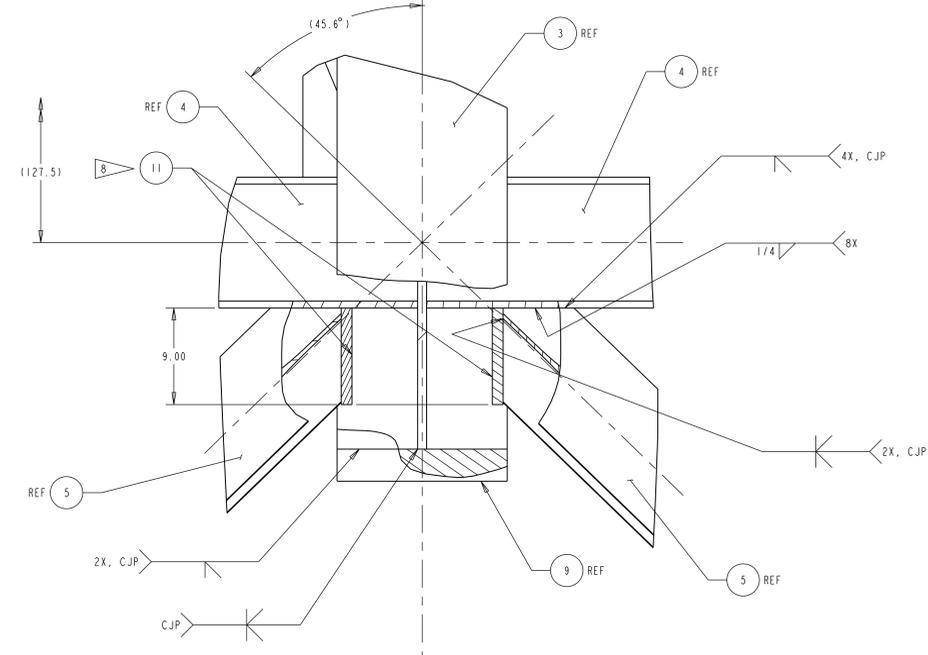
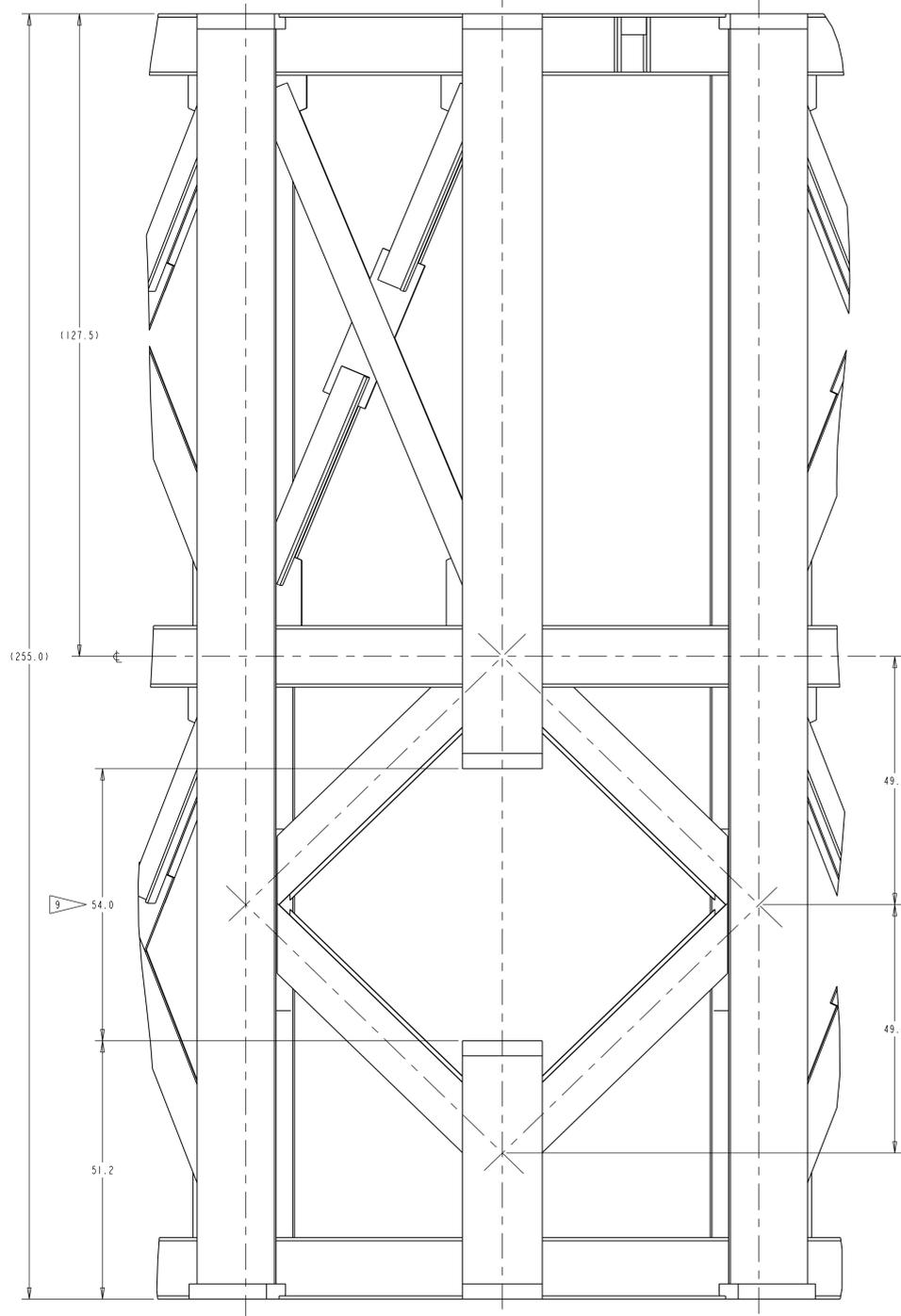
LOX LOWER PEDESTAL SUMP 1 SECTION ASSEMBLY SLS LOX TEST		SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSO GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Huntsville, Alabama	
90M14231		REVISION SEE SHT 1	6

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL



SECTION S-S
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY



SECTION R-R 2X; 1 SHOWN, 1 OPPOSITE
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY

VIEW H
SCALE: 1/12
SHEET 2

SECTION P-P
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY

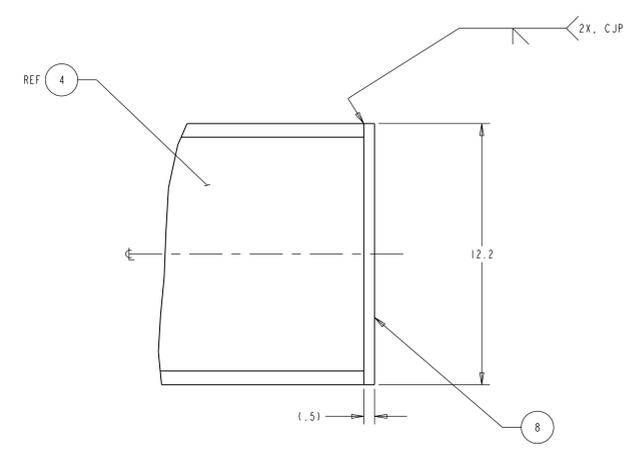
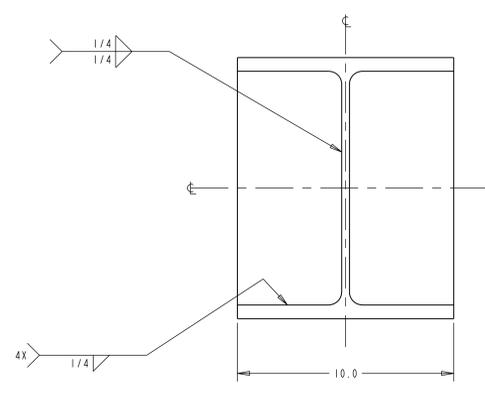
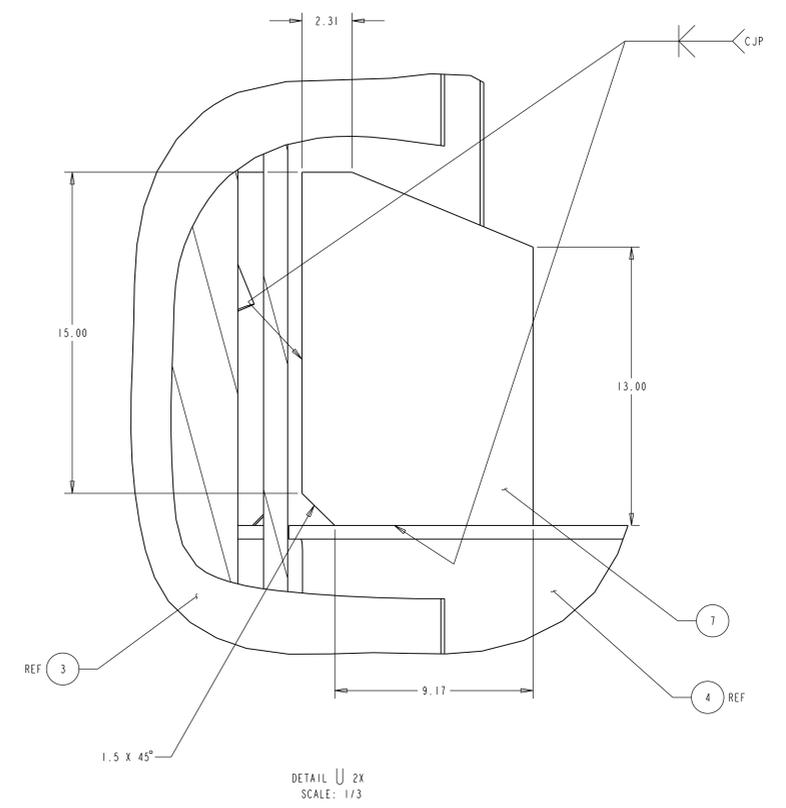
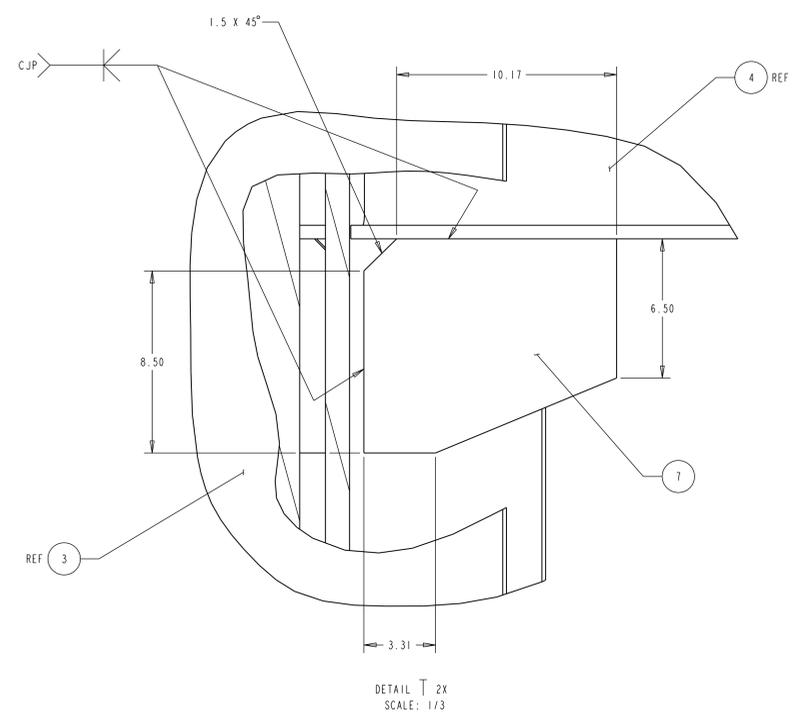
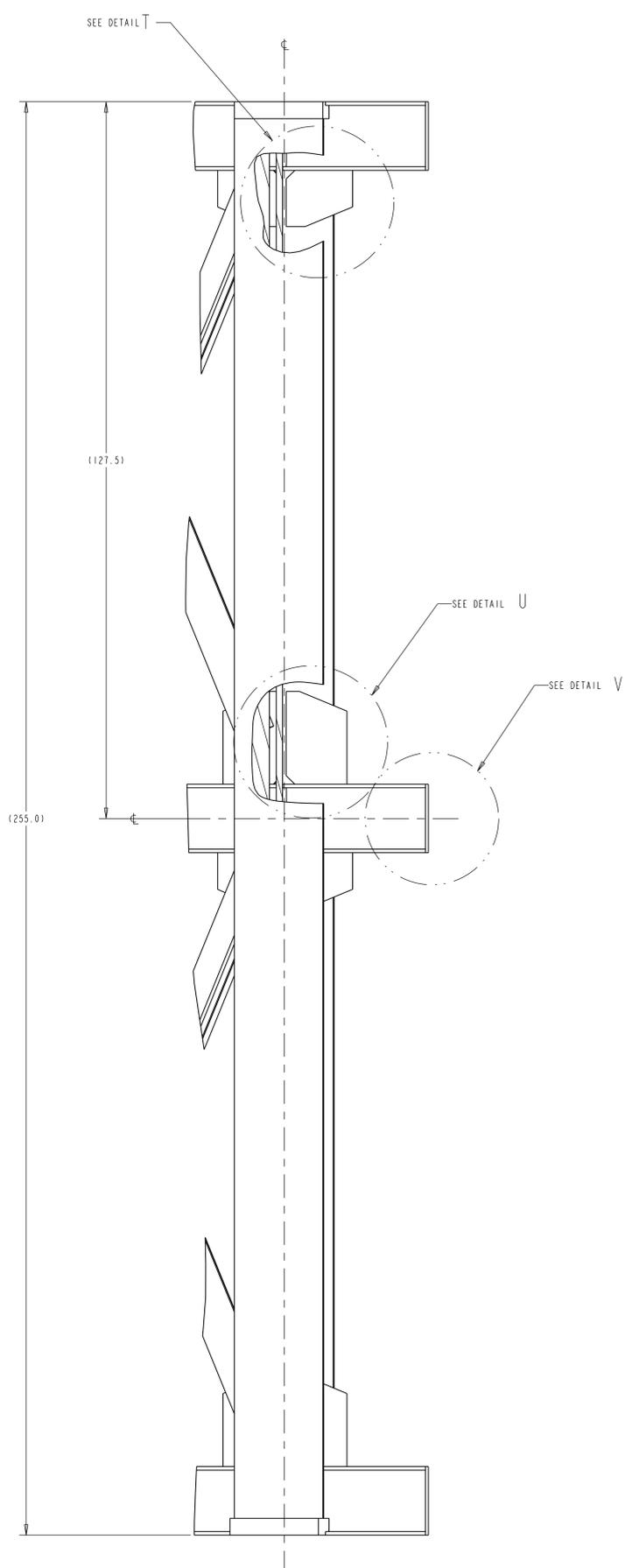
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04-28-14
DATE

LOX LOWER PEDESTAL
SUMP 1 SECTION
ASSEMBLY
SLS LOX TEST

SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSD GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION HUNTSVILLE, ALABAMA	
90M14231	REVISION SEE SHEET 1
5	6

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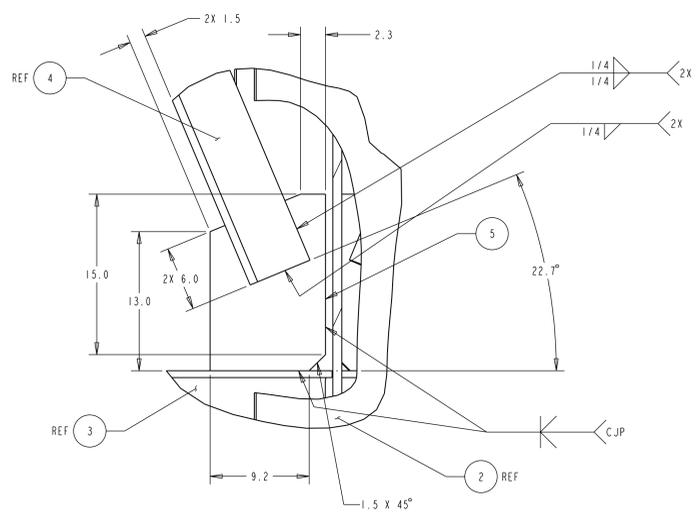
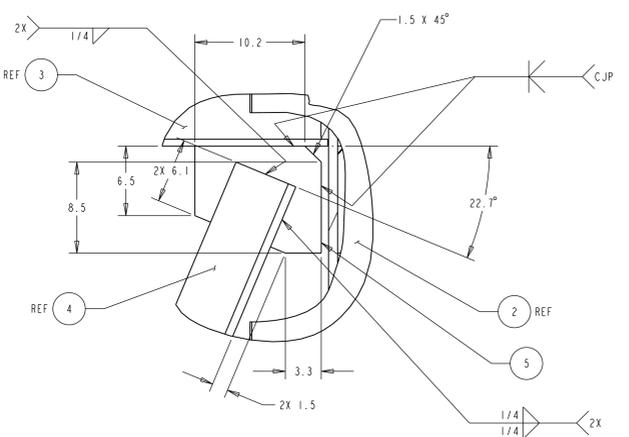
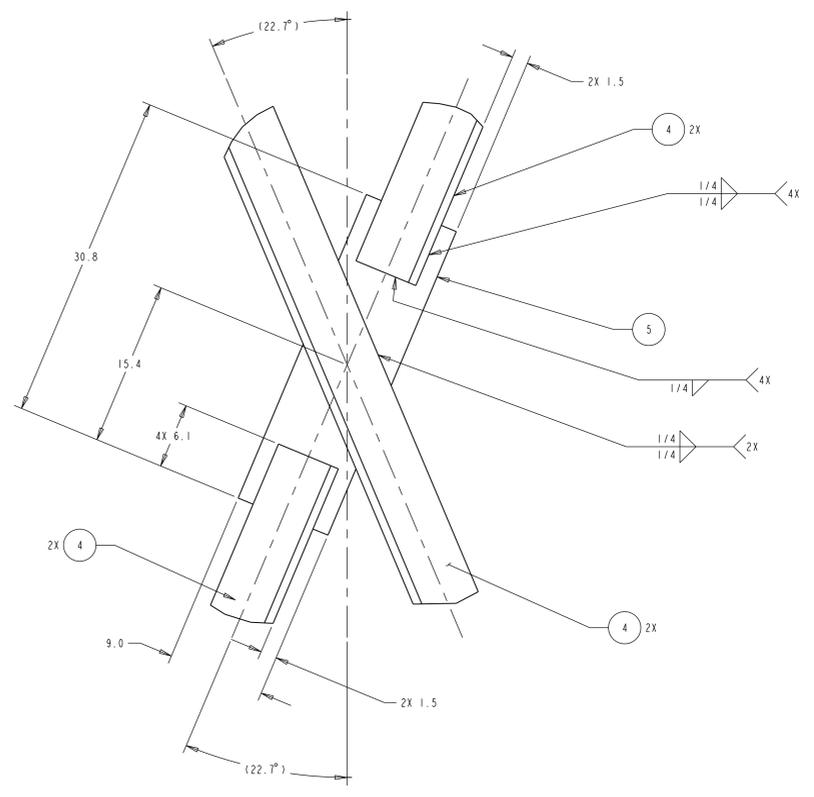
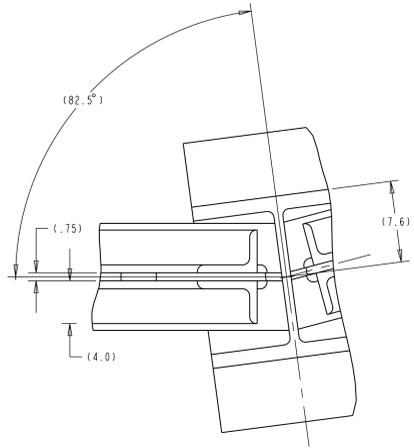
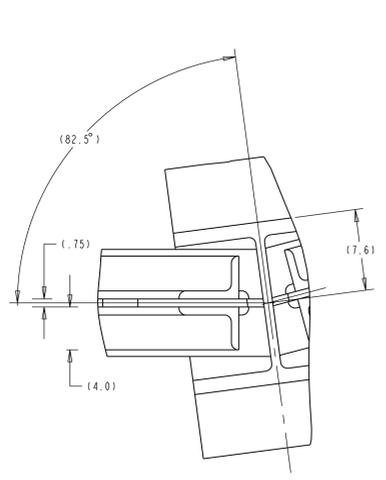
- PRELIMINARY -
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04-28-14
DATE

LOX LOWER PEDESTAL SUMP 1 SECTION ASSEMBLY SLS LOX TEST		SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSO GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Huntsville, Alabama
90M14231	REVISION SEE SHT 1	
DATE	REV	6

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SYM	DESCRIPTION	DATE	APPROVAL

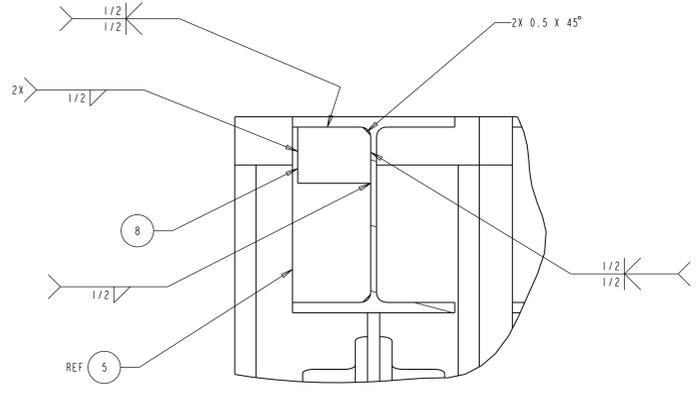
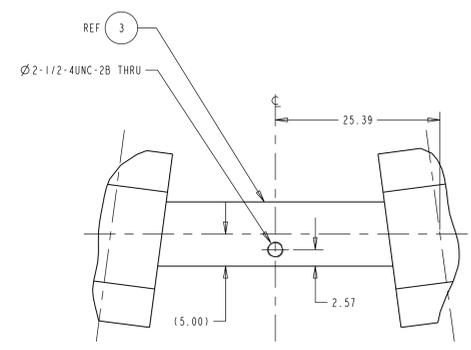
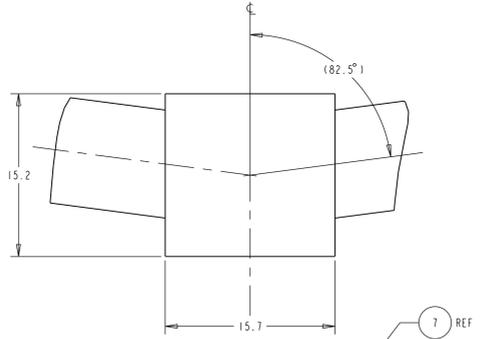
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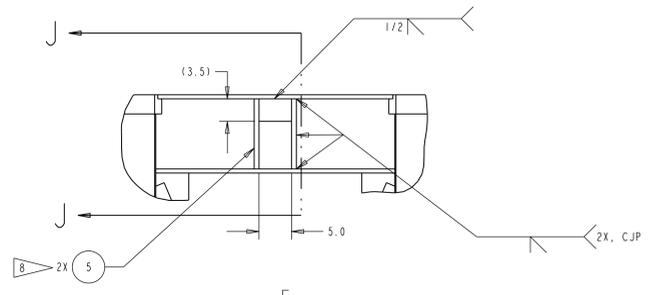
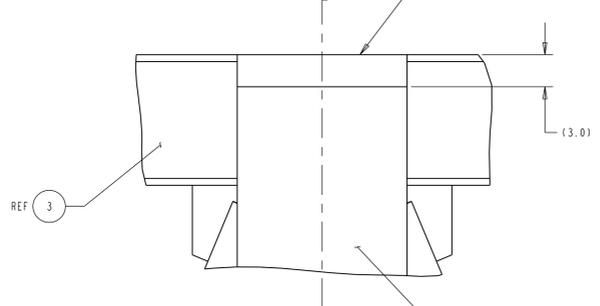
DETAIL D 12X
SCALE: 1/6
SHEET 1

DETAIL B
SCALE: 1/6
SHEET 1, 22X, 12 SHOWN, 10 OPPOSITE
ALL PARTS NOT SHOWN FOR CLARITY

DETAIL C
SCALE: 1/6
SHEET 1, 22X, 12 SHOWN, 10 OPPOSITE
ALL PARTS NOT SHOWN FOR CLARITY



SECTION J-J
SCALE: 1/4
GUSSET REMOVED FOR CLARITY



VIEW F 2X
SCALE: 1/10
SHEET 2
ALL PARTS NOT SHOWN FOR CLARITY

VIEW E 6X
SCALE: 1/6
SHEET 2
ALL PARTS NOT SHOWN FOR CLARITY

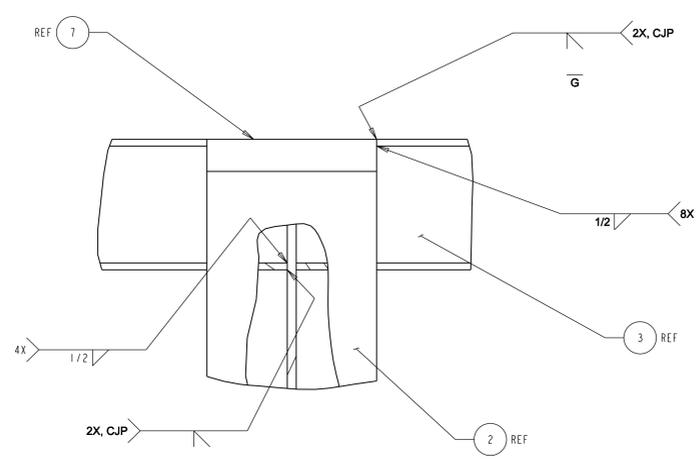
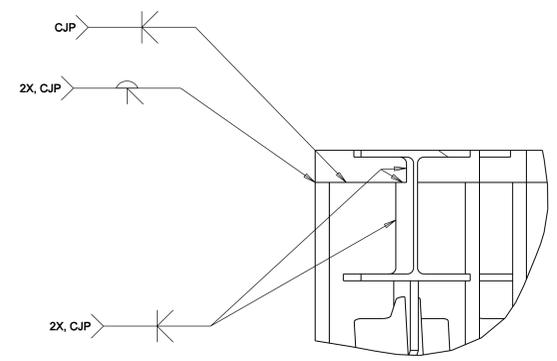
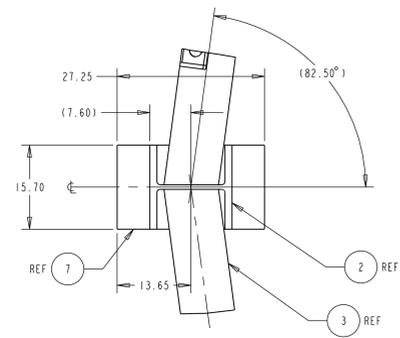
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04-28-14
DATE

LOX LOWER PEDESTAL
REGULAR SECTION
ASSEMBLY

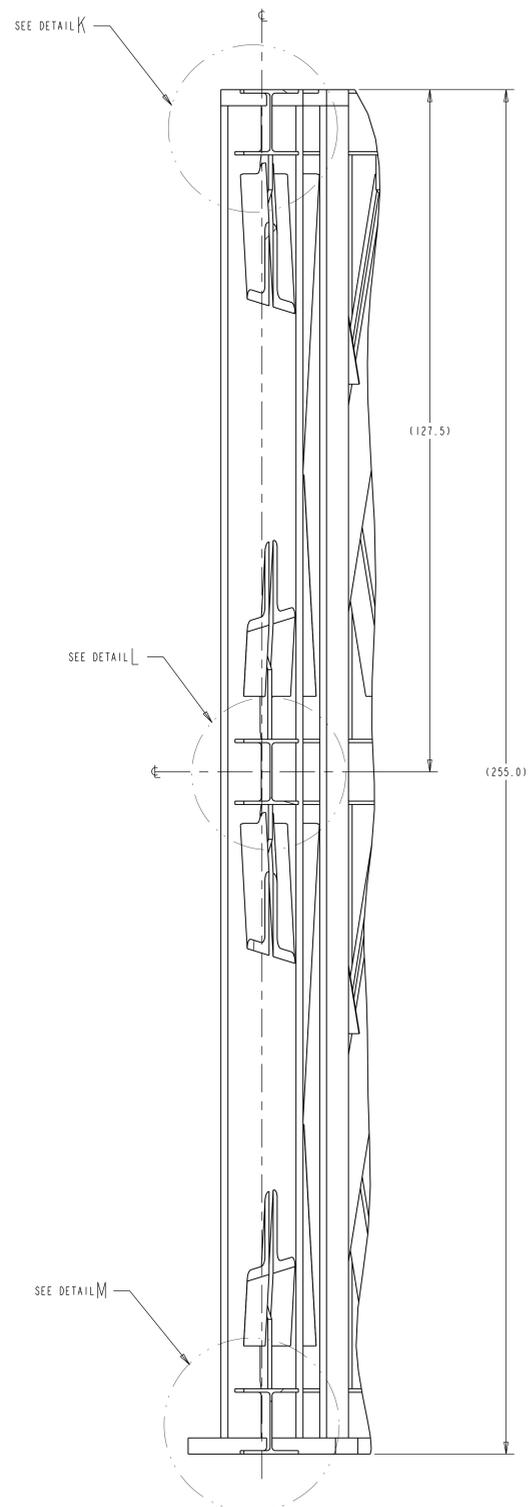
SPECIAL TEST EQUIPMENT
DESIGN BRANCH - ETSD
GEORGE C. MARSHALL
SPACE FLIGHT CENTER
NATIONAL AERONAUTICS
AND SPACE ADMINISTRATION
HOUSTON, TEXAS
90MI4233
REV 3
SEE SHEET 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

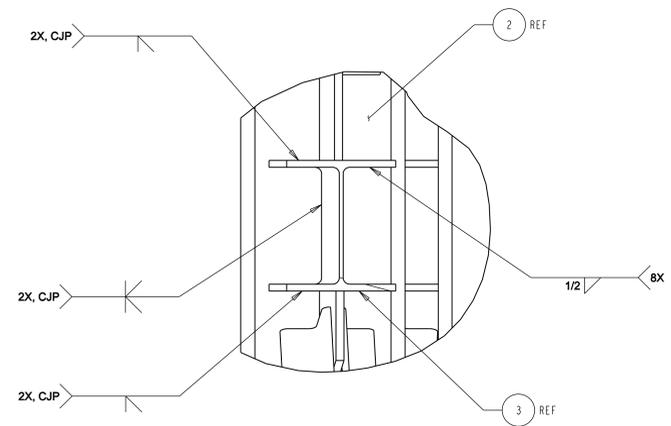
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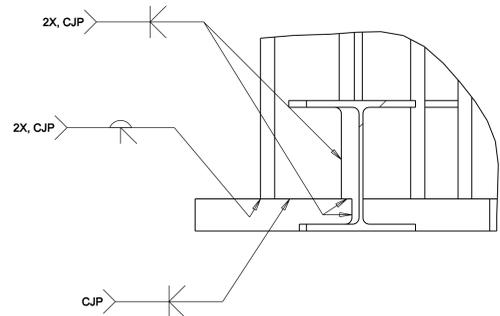
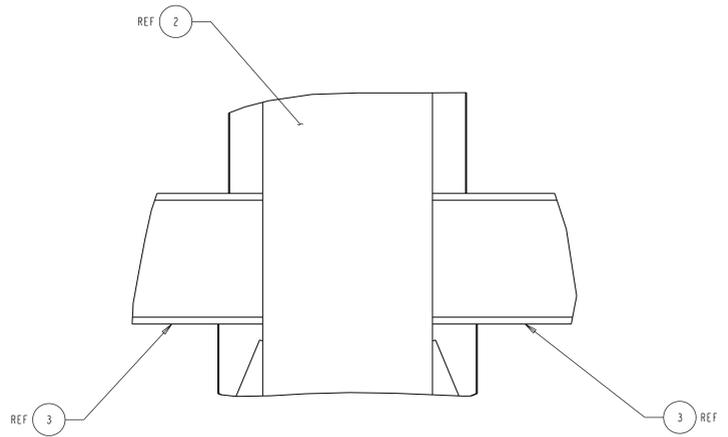
DETAIL K 6X
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY



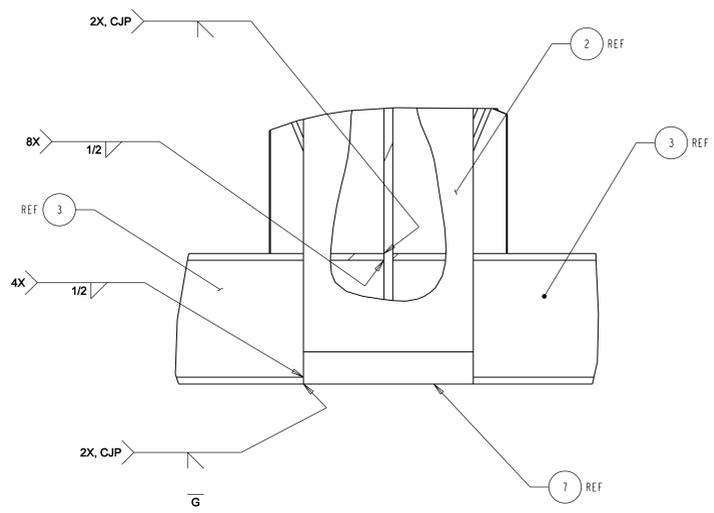
SECTION G-G
SCALE: 1/12
ALL PARTS NOT SHOWN FOR CLARITY
SHEET 2



DETAIL L 6X
SCALE: 1/6



DETAIL M 6X
SCALE: 1/6



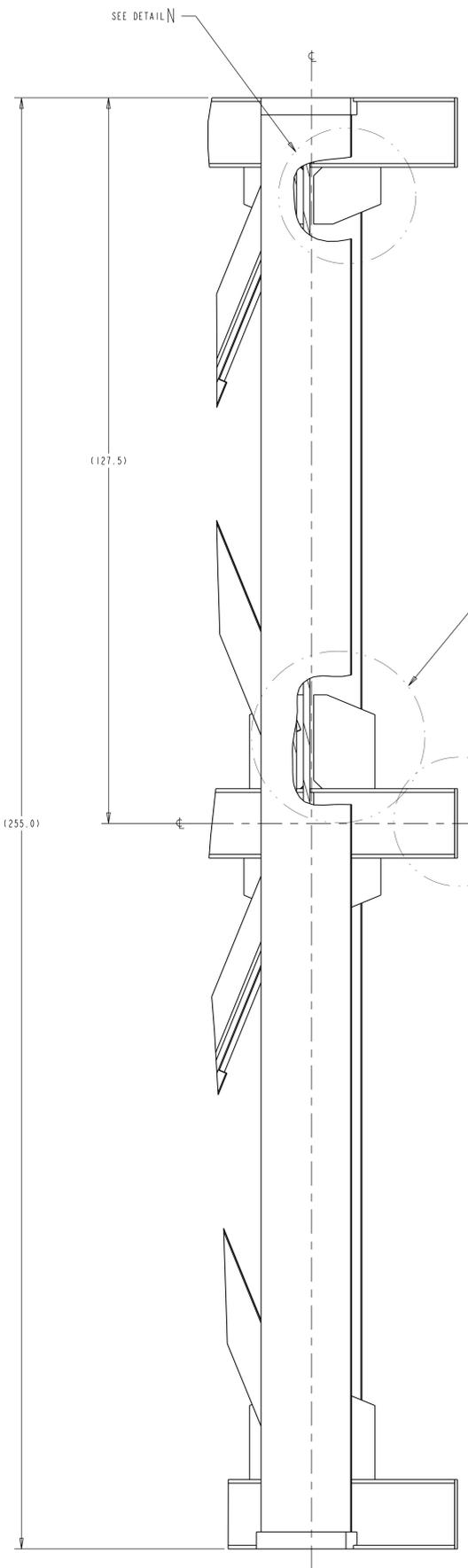
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04-28-14
DATE

LOX LOWER PEDESTAL
REGULAR SECTION
ASSEMBLY

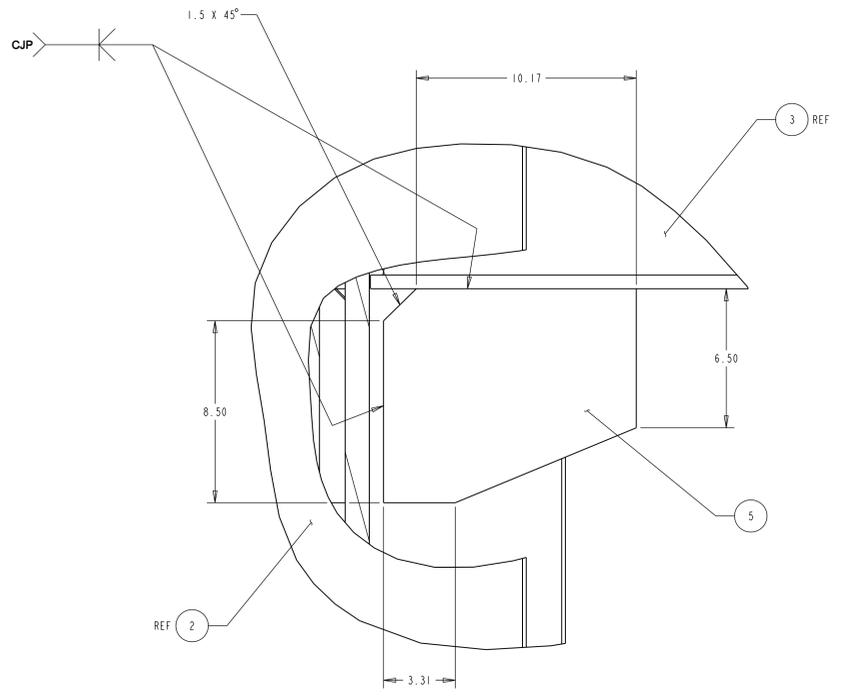
SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSO GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MOBILE, ALABAMA	REVISION 90M14233 SEE SHT 1
DATE	4 5

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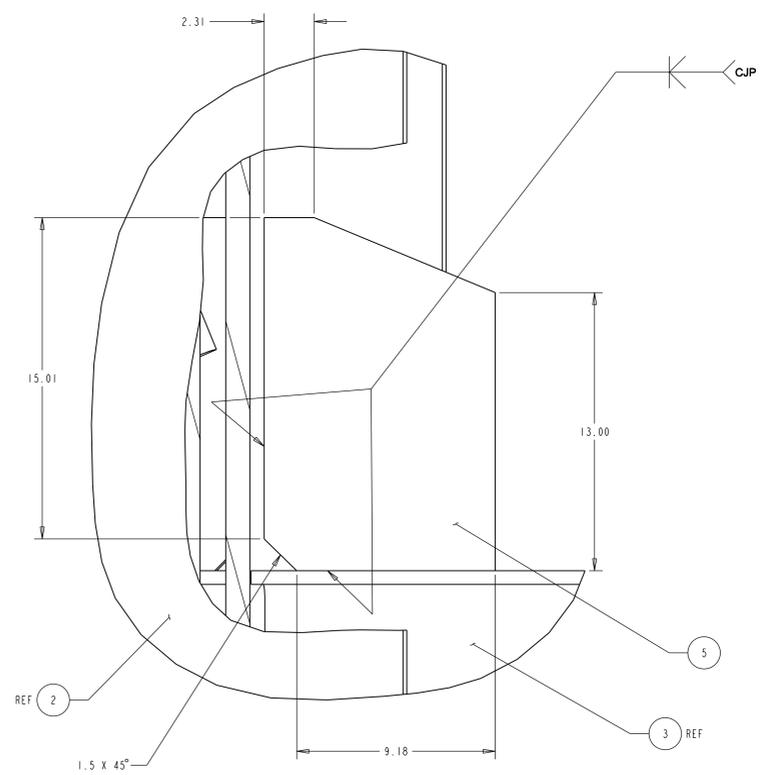
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL



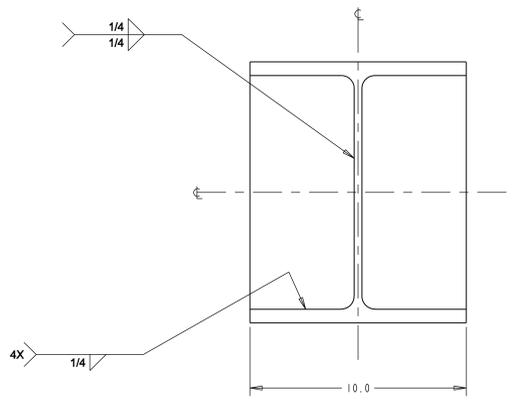
VIEW H
SCALE: 1/10
ALL PARTS NOT SHOWN FOR CLARITY
SHEET 2



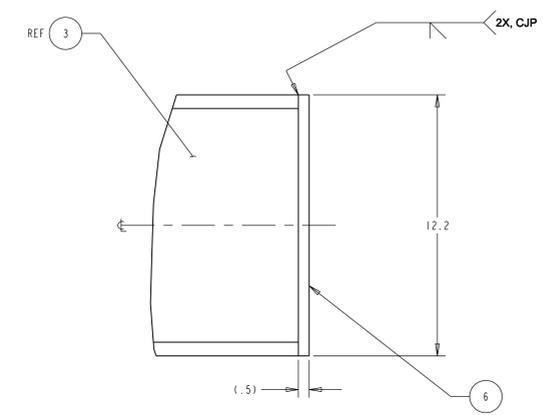
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SCALE: 1/3



DETAIL P 2X
SCALE: 1/3



DETAIL R 6X
SCALE: 1/3
ALL PARTS NOT SHOWN FOR CLARITY



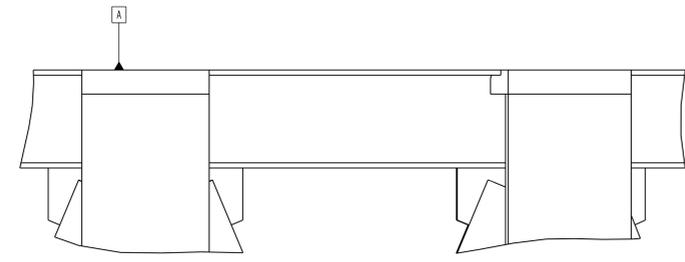
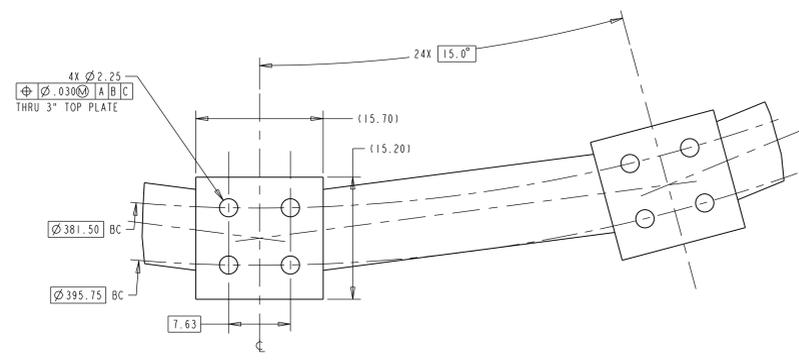
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THIS DRAWING HAS NOT COMPLETED THE
REVIEW PROCESS AND IS SUBJECT TO CHANGE.
04-28-14
DATE

LOX LOWER PEDESTAL
REGULAR SECTION
ASSEMBLY

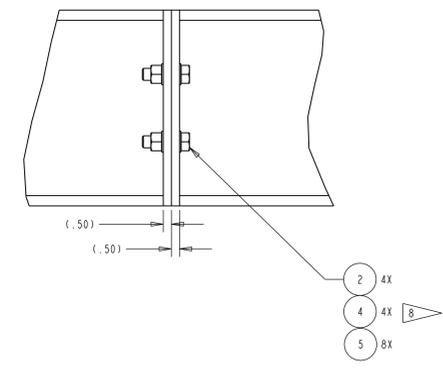
SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSO GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MOBILE, ALABAMA	REVISION 90M14233 SEE SHT 1
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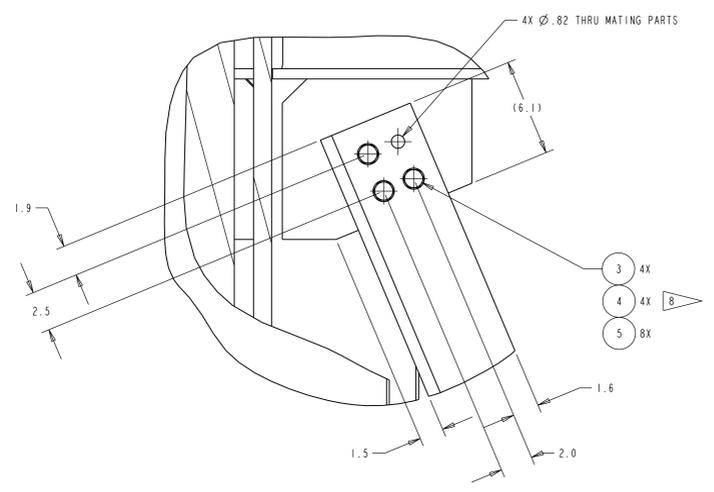
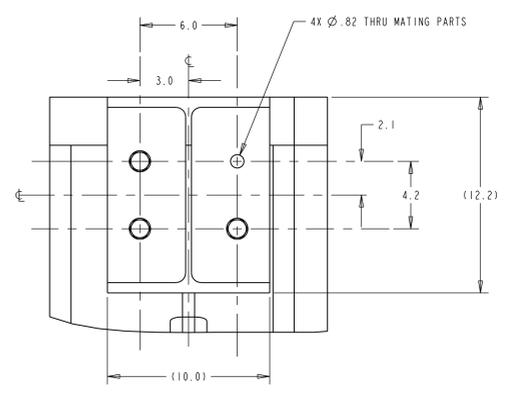
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SYM	DESCRIPTION	DATE	APPROVAL



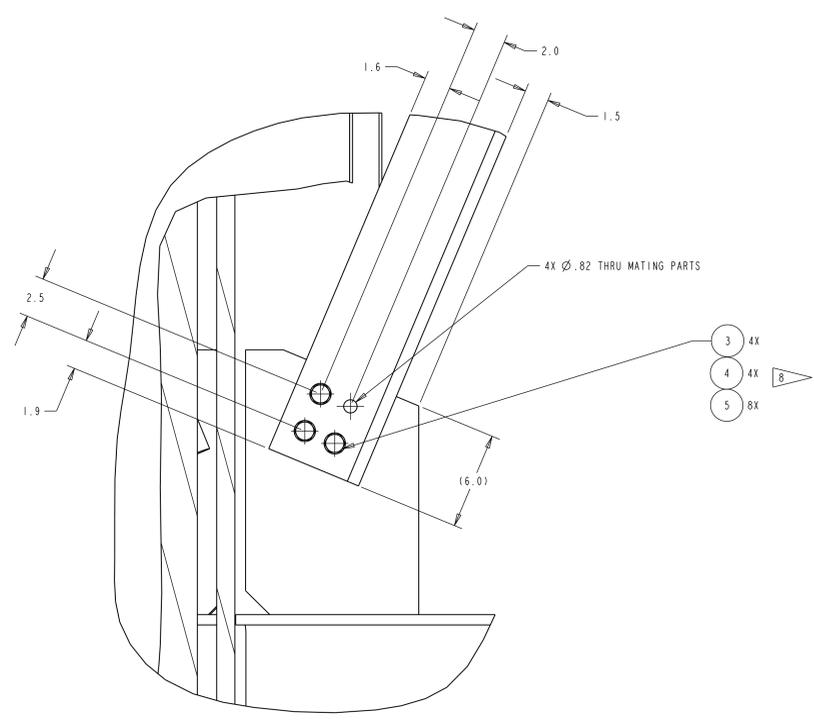
DETAIL B 48X: 24 SHOWN (TOP PLATES), 24 OPPOSITE (BASE PLATES)
SCALE: 1/6



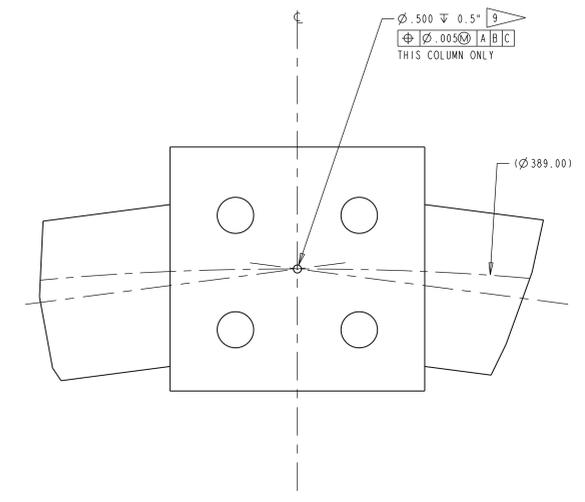
DETAIL C 3X
SCALE: 1/4
SHEET 1
ALL PARTS NOT SHOWN FOR CLARITY



DETAIL D 2X
SCALE: 1/4
SHEET 1
ALL PARTS NOT SHOWN FOR CLARITY



DETAIL E 2X
SCALE: 1/4
SHEET 1
ALL PARTS NOT SHOWN FOR CLARITY



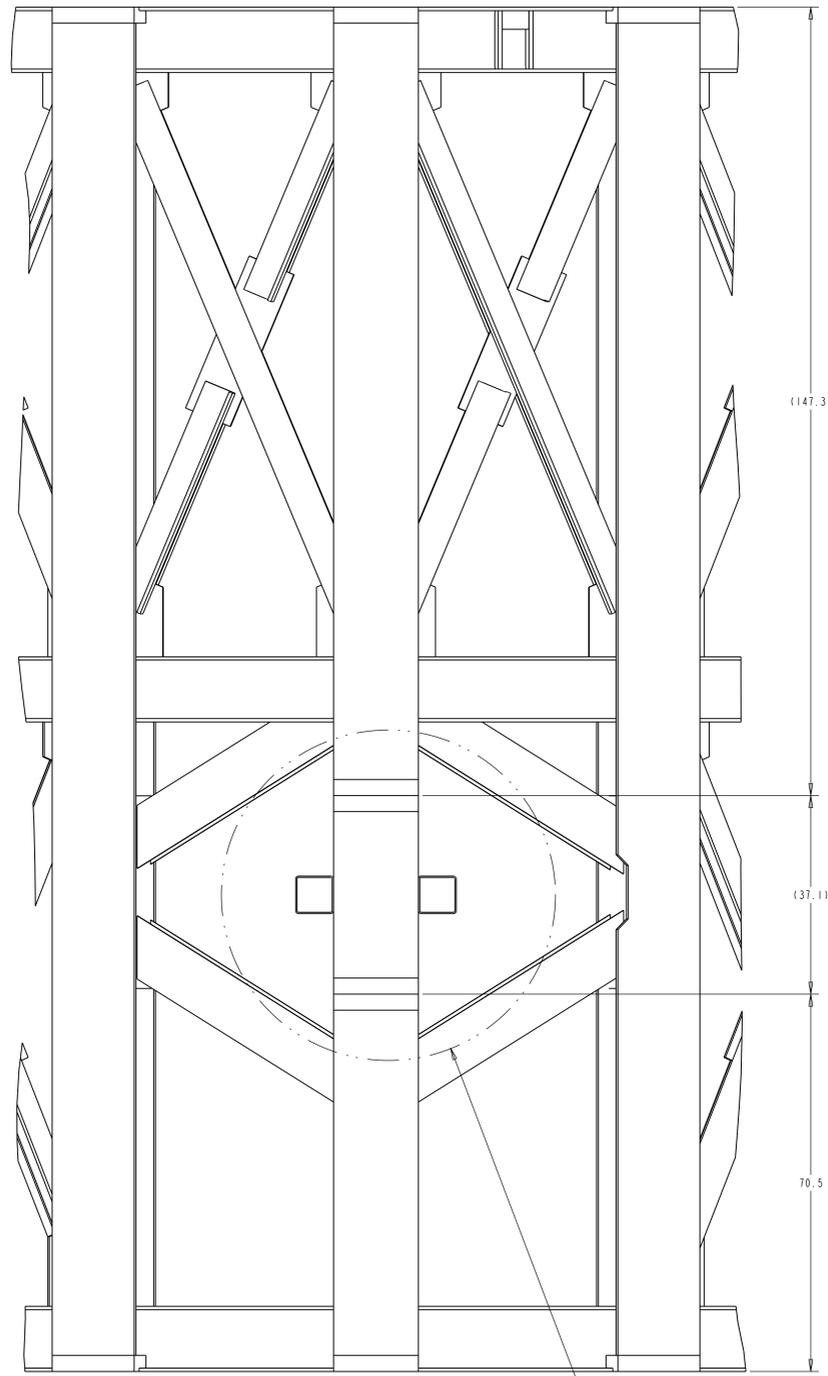
DETAIL F
SCALE: 1/4
SHEET 1

- PRELIMINARY -
THIS DRAWING HAS NOT COMPLETED THE REVIEW PROCESS AND IS SUBJECT TO CHANGE.
05-20-14
DATE

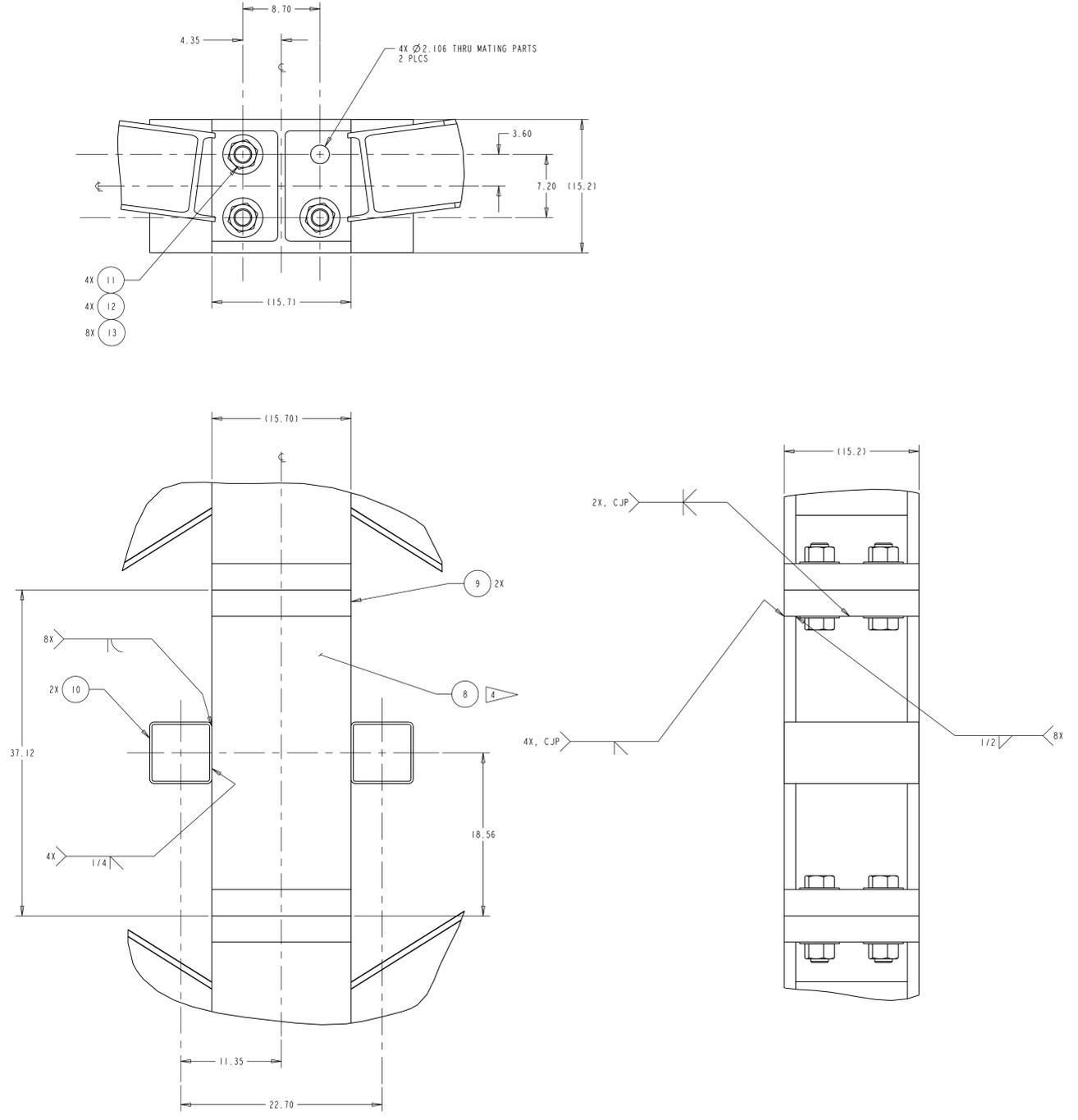
LOX MIDDLE PEDESTAL SECTION ASSEMBLY SLS LOX TEST		SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSD GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Huntsville, Alabama
90M14236		REVISION SEE SHEET 1
DATE	REV	BY
05-20-14	2	3

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL



VIEW G
SCALE: 1/12
ALL PARTS NOT SHOWN FOR CLARITY
SHEET 1



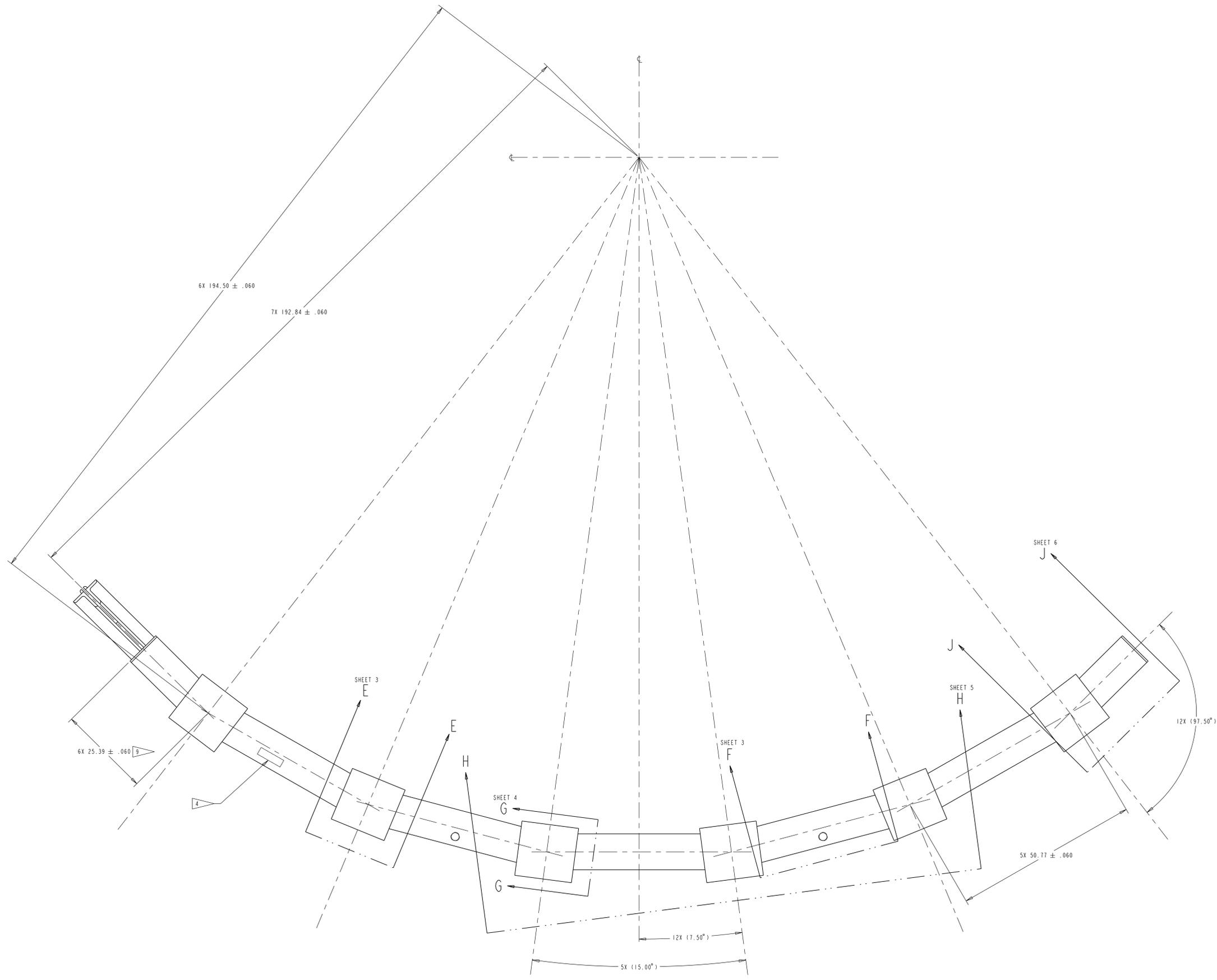
DETAIL H
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY

- PRELIMINARY -
THIS DRAWING HAS NOT COMPLETED THE REVIEW PROCESS AND IS SUBJECT TO CHANGE.
05-20-14
DATE

LOX MIDDLE PEDESTAL SECTION ASSEMBLY SLS LOX TEST		SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSD GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION HUNTSVILLE, ALABAMA	
90M14236		REVISION	SEE SHT 1
DATE	05-20-14	3	3

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH THEY WERE ORIGINALLY DESIGNED OR INTENDED, THE USER ASSUMES ALL LIABILITY FOR ANY INADEQUACIES, DEFICIENCIES, OR ERRORS THAT MAY OCCUR. THE USER SHALL NOT BE HELD RESPONSIBLE FOR ANY SUCH INADEQUACIES, DEFICIENCIES, OR ERRORS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMISSIONS AND AUTHORIZATIONS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMISSIONS AND AUTHORIZATIONS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMISSIONS AND AUTHORIZATIONS FROM THE APPROPRIATE AGENCIES AND AUTHORITIES.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL



VIEW A
SCALE: 1/10
SHEET 1

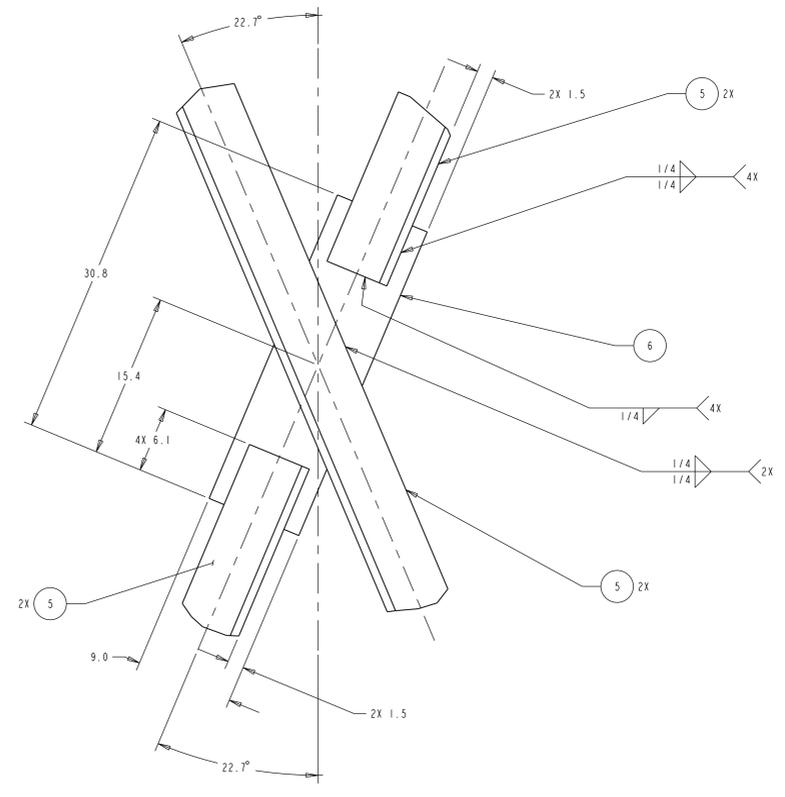
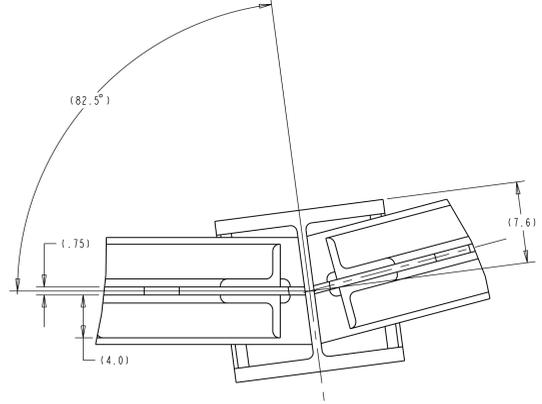
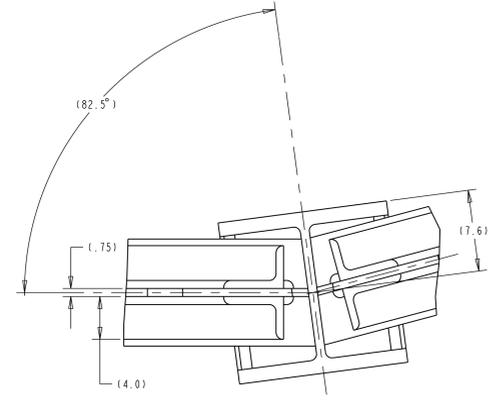
- PRELIMINARY -
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05-12-14
DATE

LOX MIDDLE PEDESTAL ST & PL SECTION ASSEMBLY SLS LOX TEST		SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSO GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Huntsville, Alabama	
90M14237		REVISION SEE SHEET 1	6

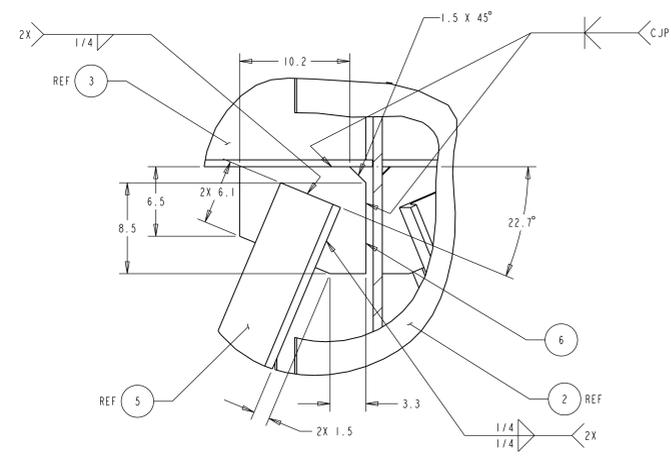
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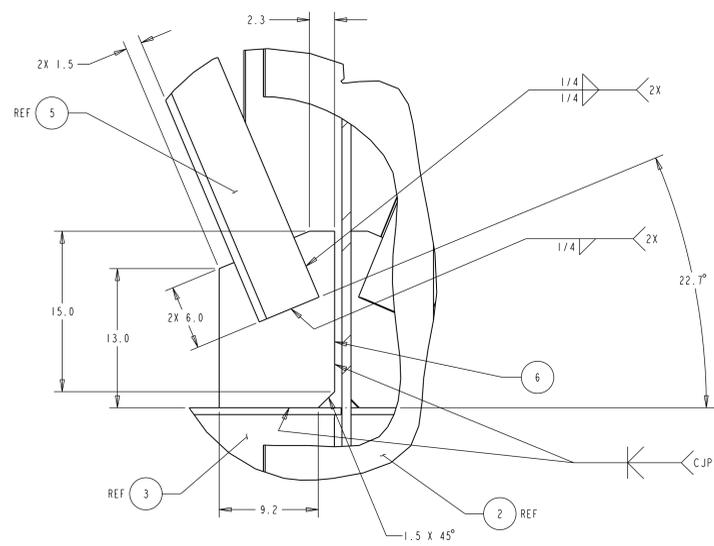
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SYM	DESCRIPTION	DATE	APPROVAL



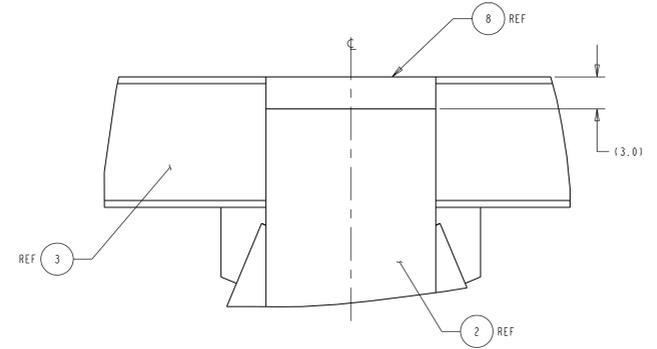
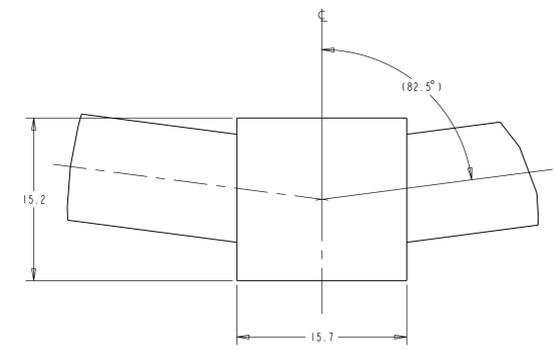
VIEW D 8X
SCALE: 1/16
SHEET 1



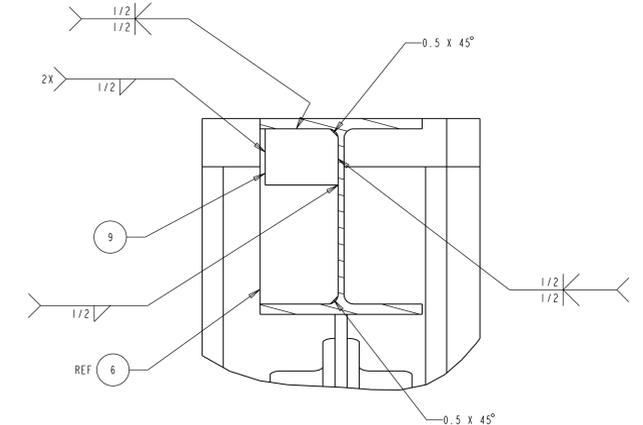
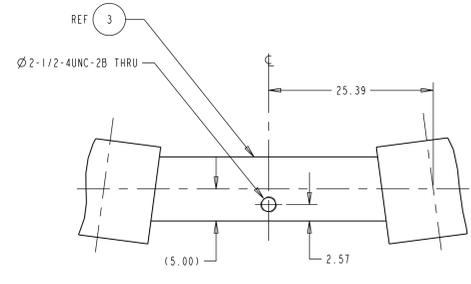
DETAIL B
SCALE: 1/16
SHEET 1, 14X; 8 SHOWN, 6 OPPOSITE
ALL PARTS NOT SHOWN FOR CLARITY



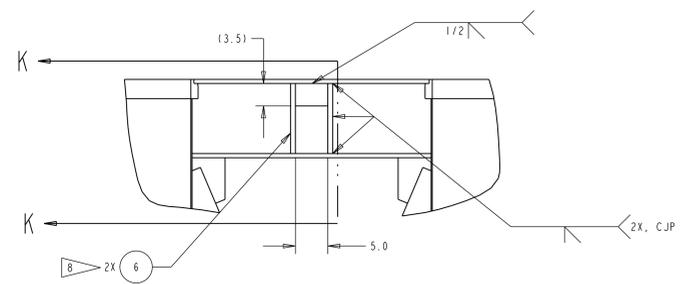
DETAIL C
SCALE: 1/16
SHEET 1, 14X; 8 SHOWN, 6 OPPOSITE
ALL PARTS NOT SHOWN FOR CLARITY



VIEW E 6X
SCALE: 1/16
SHEET 2



SECTION K-K
SCALE: 1/4
GUSSET REMOVED FOR CLARITY



VIEW F 2X
SCALE: 1/10
SHEET 2
ALL PARTS NOT SHOWN FOR CLARITY

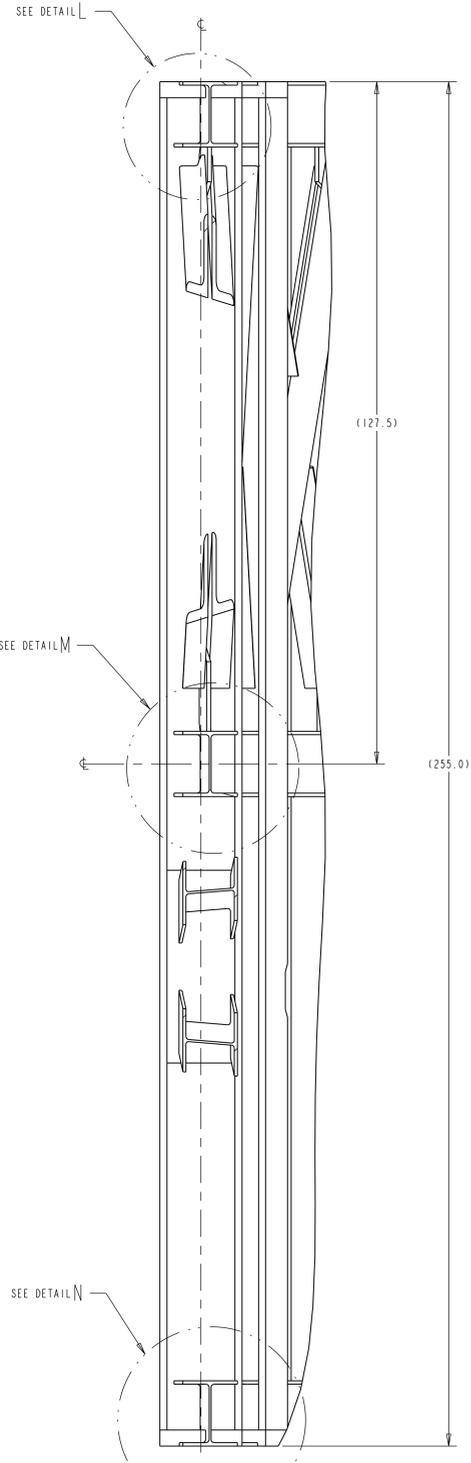
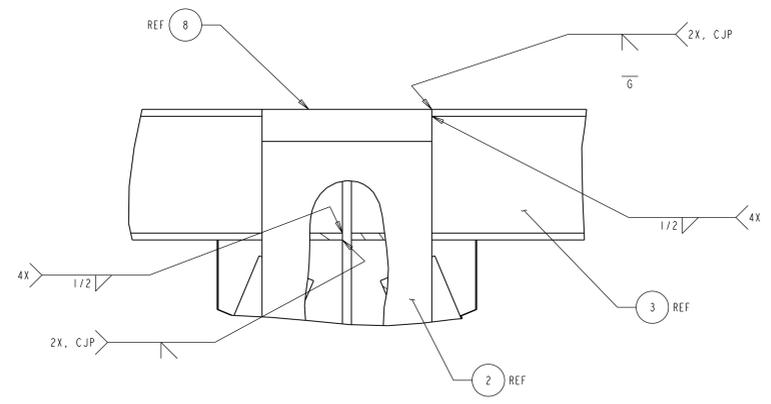
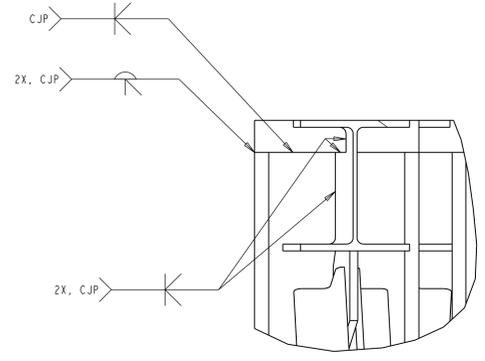
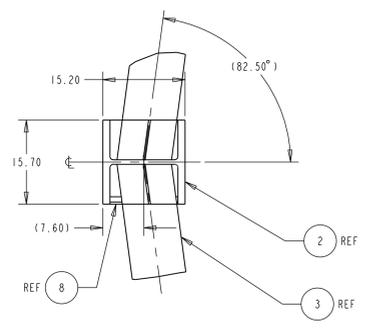
- PRELIMINARY -
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REVIEW PROCESS AND IS SUBJECT TO CHANGE.
05-12-14
DATE

LOX MIDDLE PEDESTAL ST & PL SECTION ASSEMBLY SLS LOX TEST		SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSD GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Huntsville, Alabama	
90MI4237		REVISION SEE SHEET 1	6
DATE	05-12-14	3	6

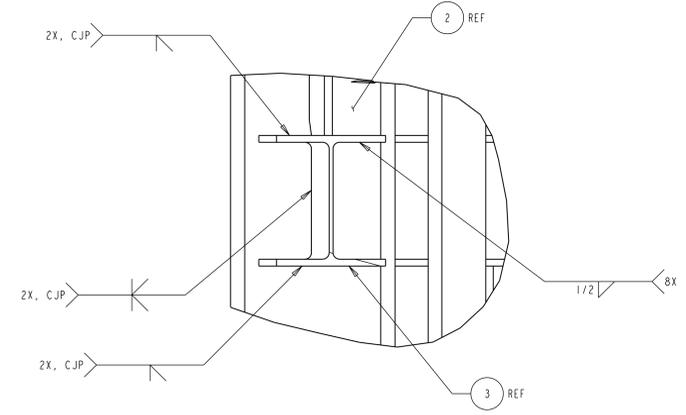
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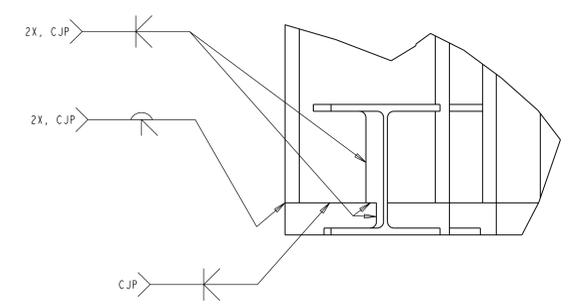
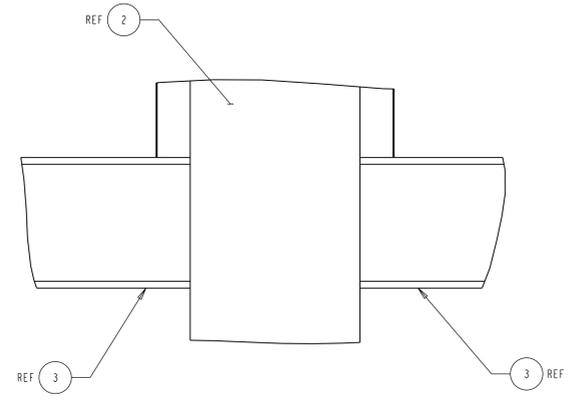
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL



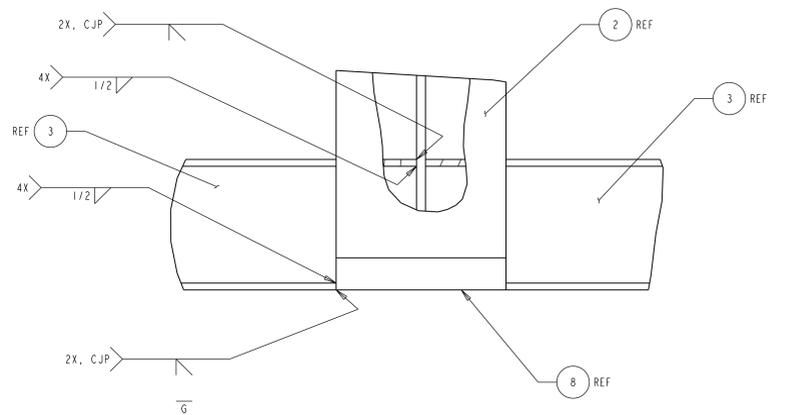
DETAIL L 6X
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY



DETAIL M 6X
SCALE: 1/6



DETAIL N 6X
SCALE: 1/6



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05-12-14
DATE

SECTION G-G
SCALE: 1/12
ALL PARTS NOT SHOWN FOR CLARITY
SHEET 2

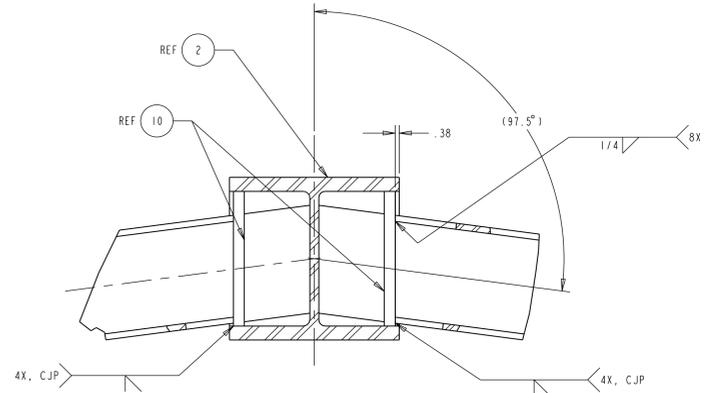
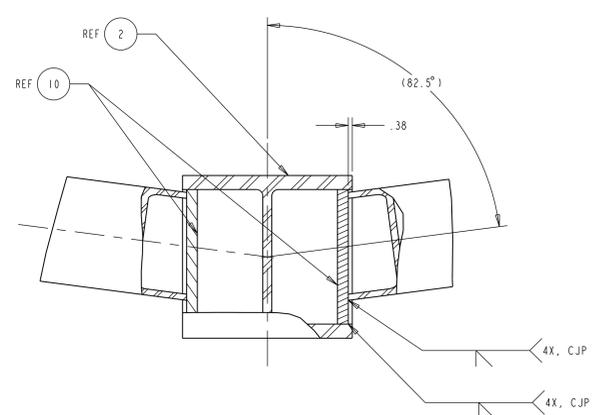
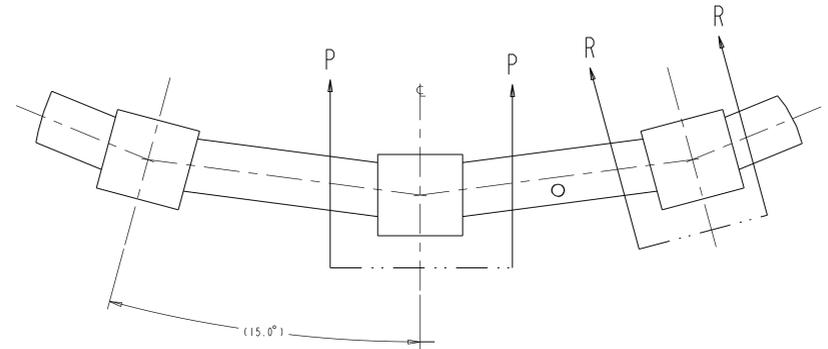
LOX MIDDLE
PEDESTAL ST & PL
SECTION ASSEMBLY
SLS LOX TEST

SPECIAL TEST EQUIPMENT
DESIGN BRANCH - ETSO
GEORGE C. MARSHALL
SPACE FLIGHT CENTER
NATIONAL AERONAUTICS
AND SPACE ADMINISTRATION
MOBILE, ALABAMA

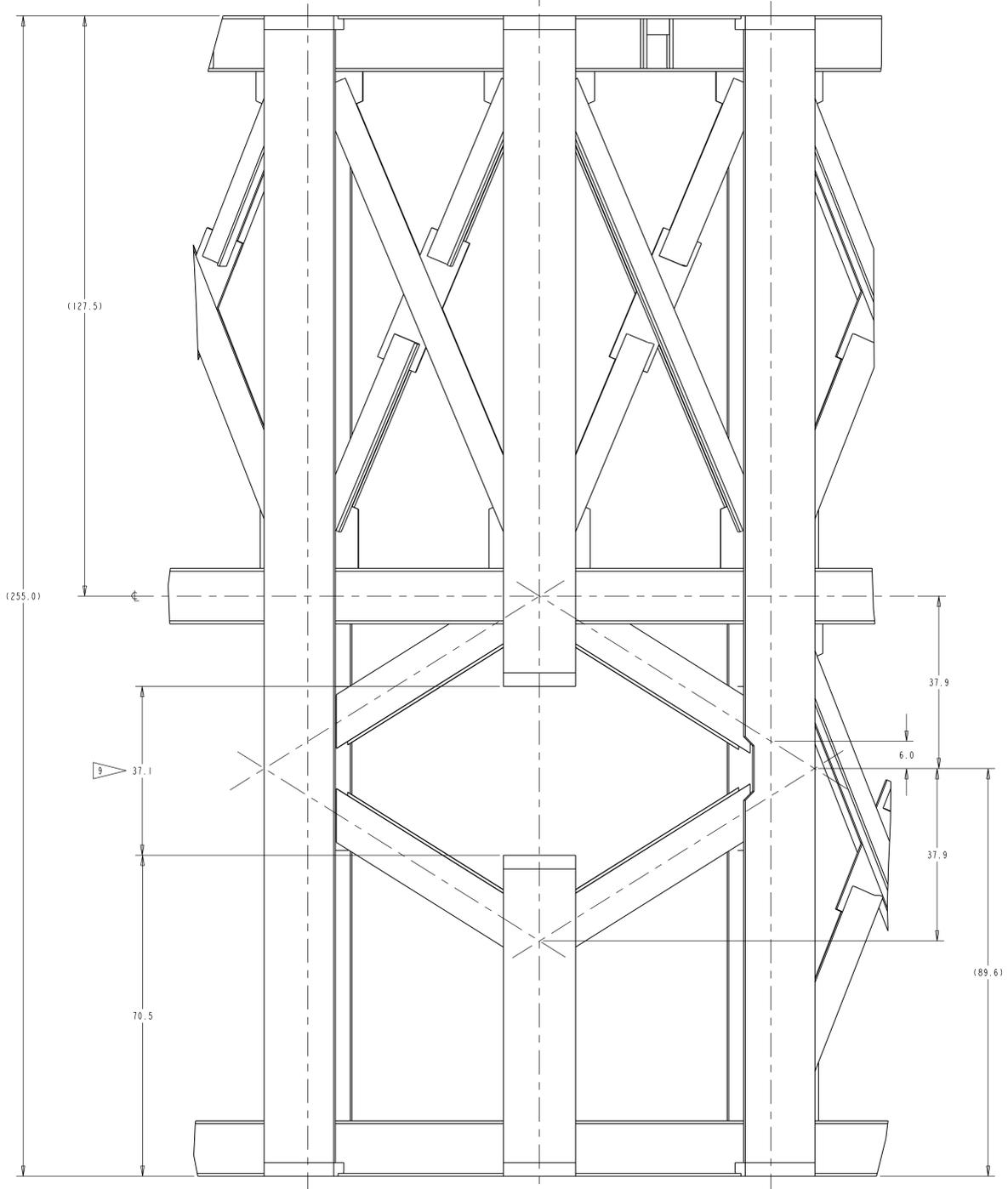
90M14237
REV 4
SEE SHT 1

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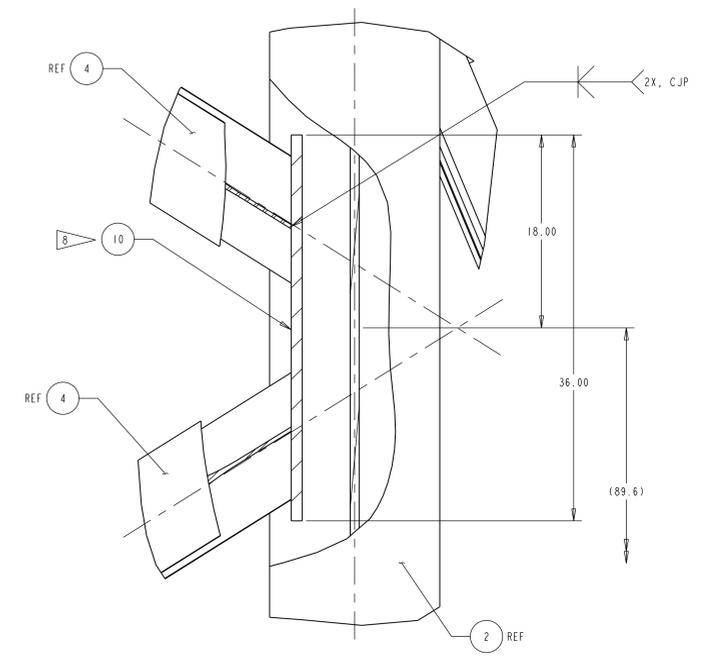
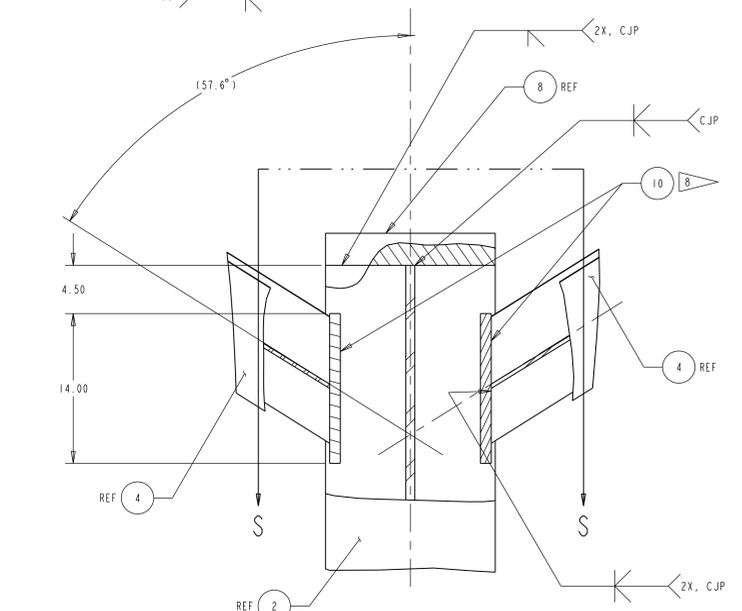
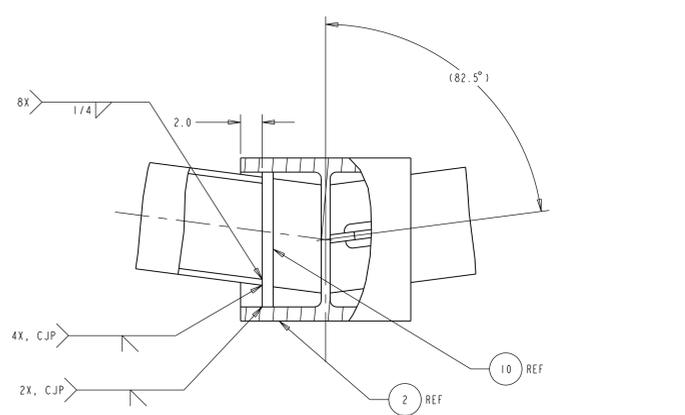
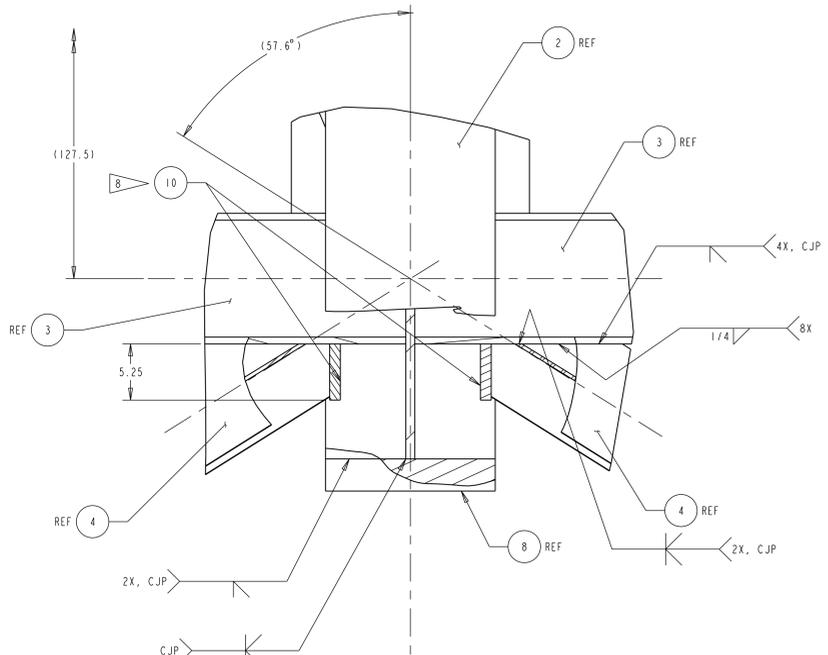
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL



SECTION S-S
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY



VIEW H
SCALE: 1/12
SHEET 2



SECTION P-P
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY

SECTION R-R 2X: 1 SHOWN, 1 OPPOSITE
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY

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DATE

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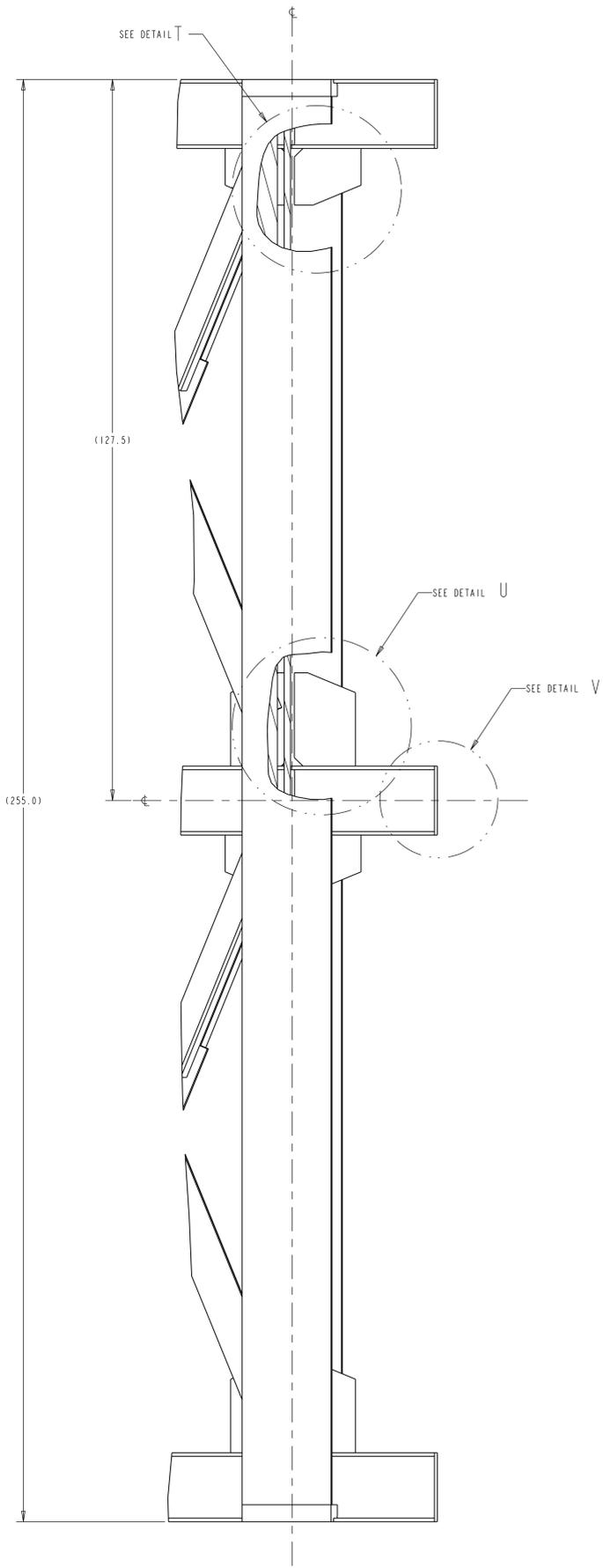
LOX MIDDLE
PEDESTAL ST & PL
SECTION ASSEMBLY
SLS LOX TEST

SPECIAL TEST EQUIPMENT
DESIGN BRANCH - ETSO
GEORGE C. MARSHALL
SPACE FLIGHT CENTER
NATIONAL AERONAUTICS
AND SPACE ADMINISTRATION
HOUSTON, TEXAS

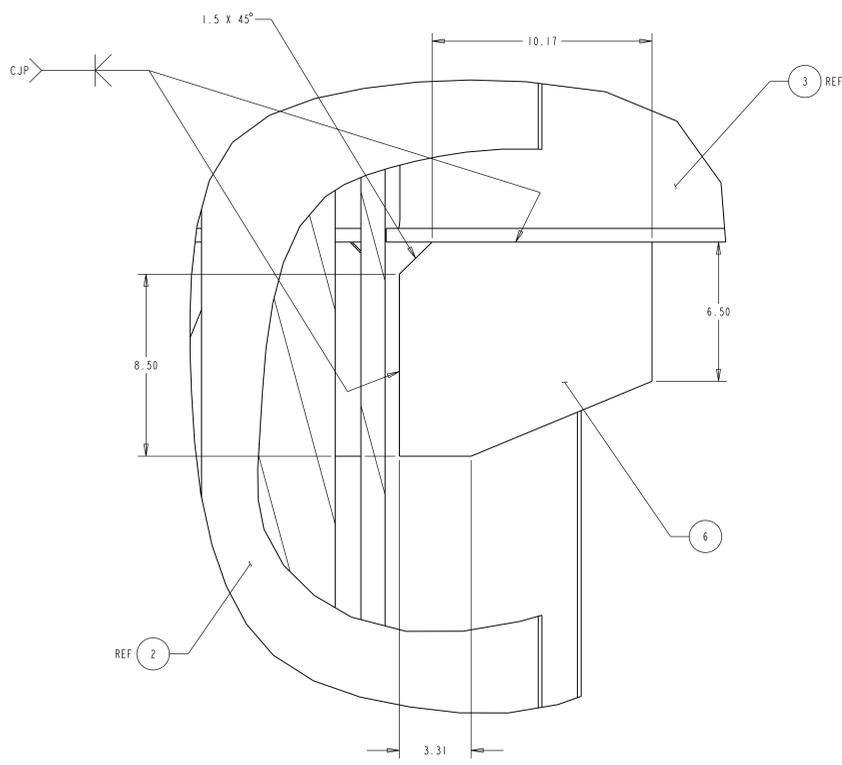
90MI4237
REV 5
SEE SHEET 6

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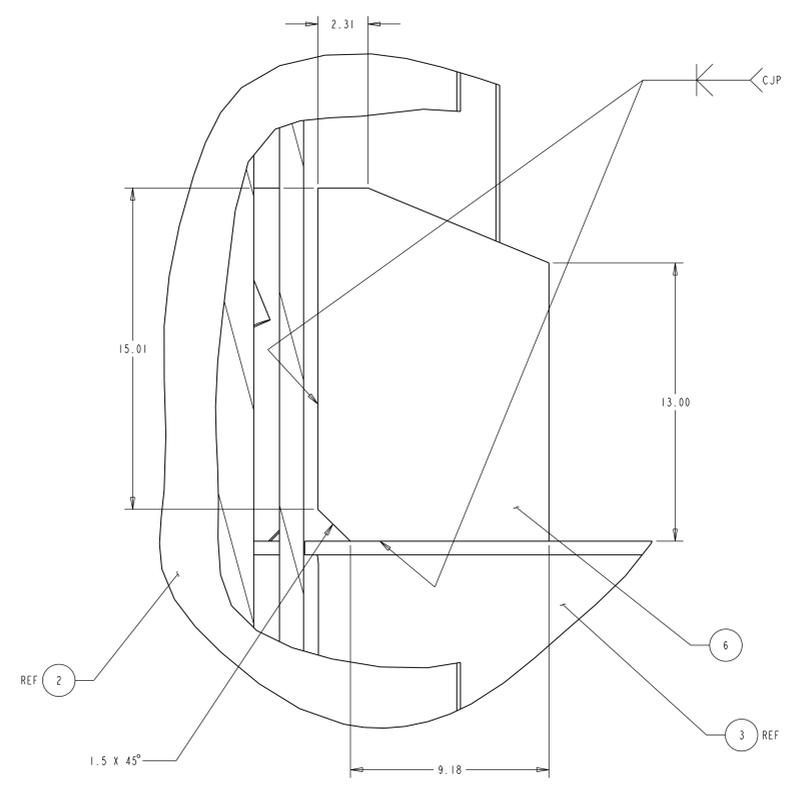
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SYM	DESCRIPTION	DATE	APPROVAL



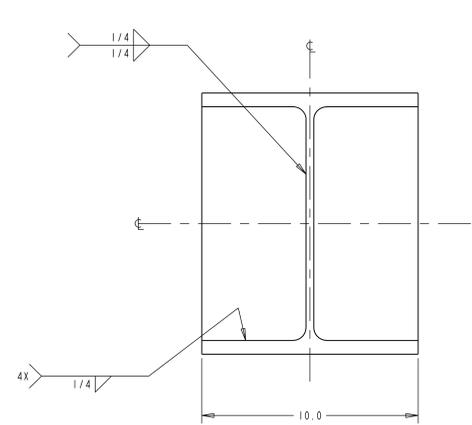
VIEW J
SCALE: 1/10
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SHEET 2



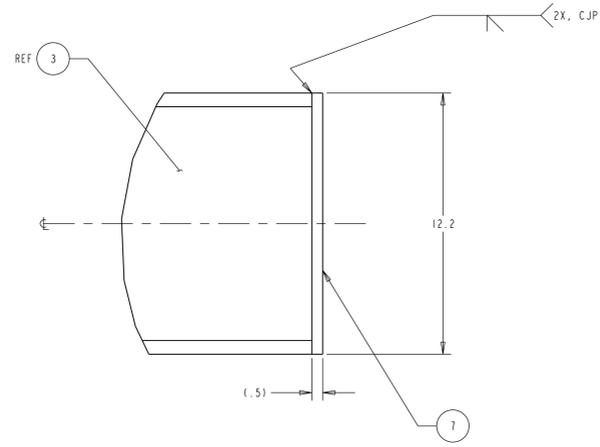
DETAIL T 2X
SCALE: 1/3



DETAIL U 2X
SCALE: 1/3



DETAIL V 6X
SCALE: 1/3
ALL PARTS NOT SHOWN FOR CLARITY

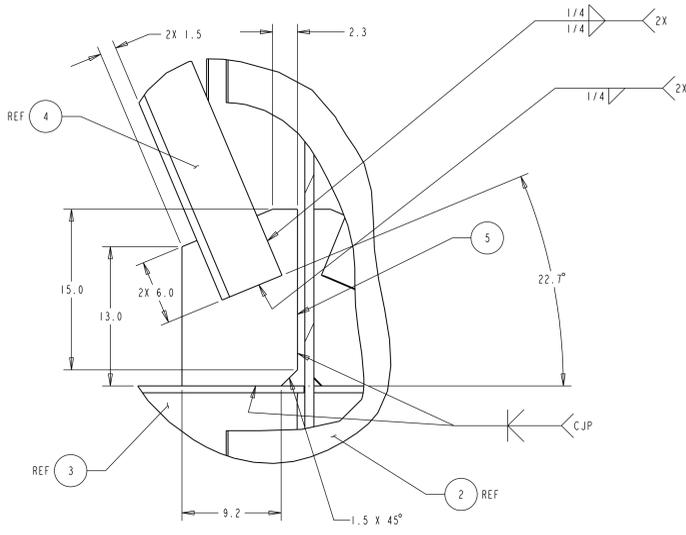
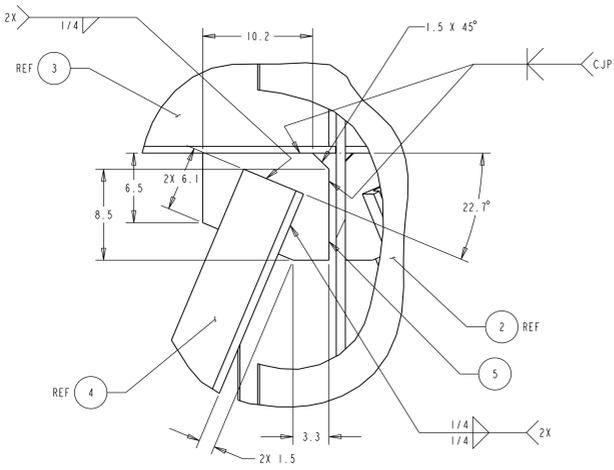
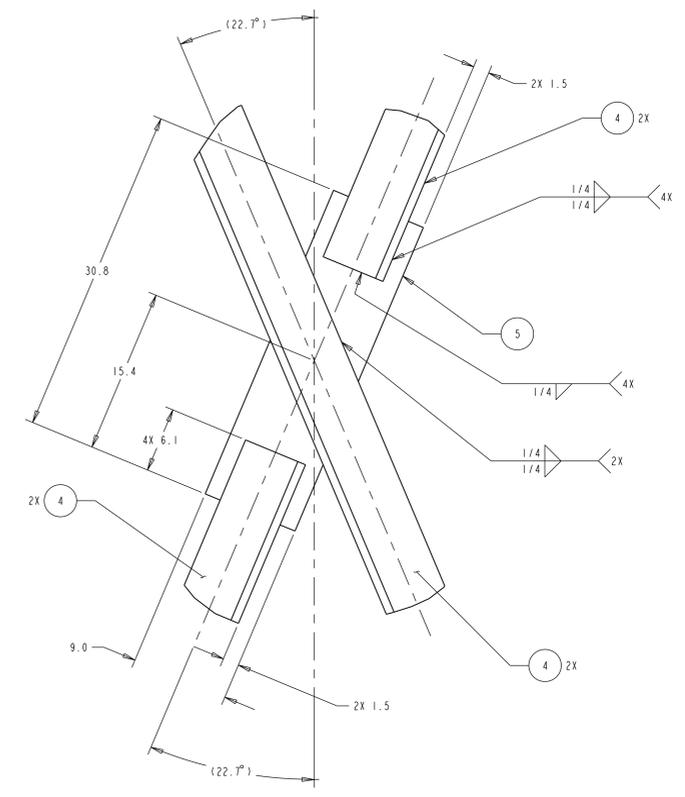
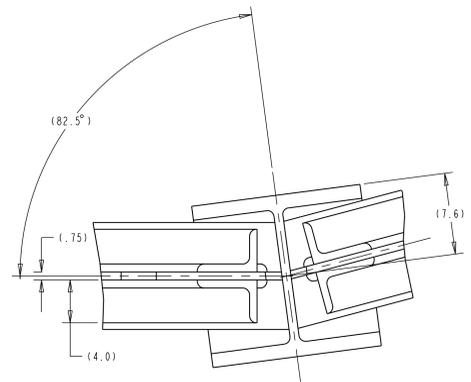
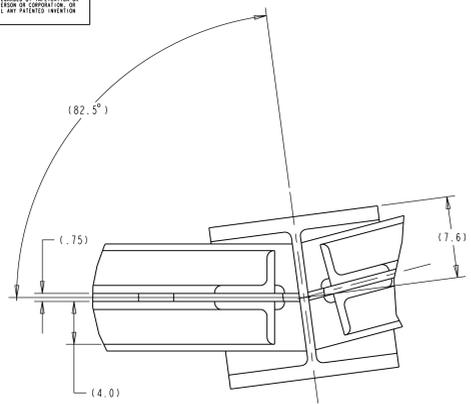


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05-12-14
DATE

LOX MIDDLE PEDESTAL ST & PL SECTION ASSEMBLY SLS LOX TEST		SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSO GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION HOUSTON, TEXAS	
90M14237		REVISION SEE SHEET 1	6

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

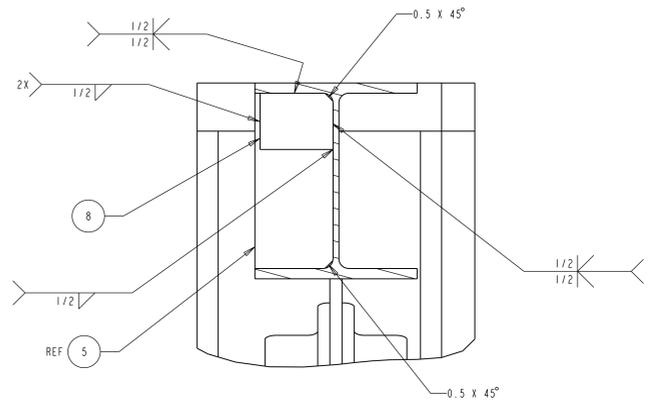
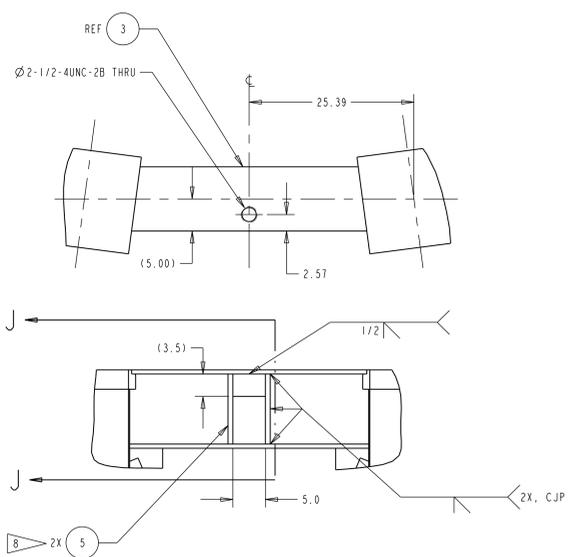
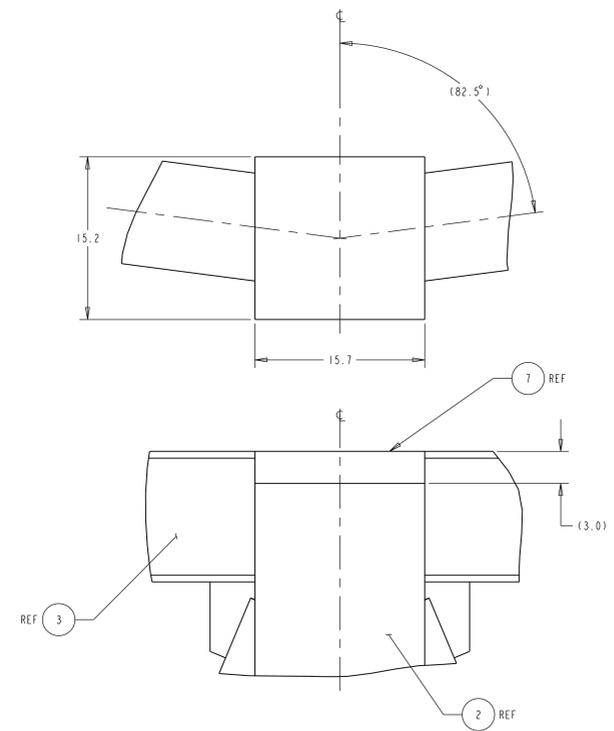
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DETAIL D 12X
SCALE: 1/6
SHEET 1

DETAIL B
SCALE: 1/6
SHEET 1, 22X; 12 SHOWN, 10 OPPOSITE
ALL PARTS NOT SHOWN FOR CLARITY

DETAIL C
SCALE: 1/6
SHEET 1, 22X; 12 SHOWN, 10 OPPOSITE
ALL PARTS NOT SHOWN FOR CLARITY



SECTION J-J
SCALE: 1/4
GUSSET REMOVED FOR CLARITY

VIEW E 6X
SCALE: 1/6
SHEET 2
ALL PARTS NOT SHOWN FOR CLARITY

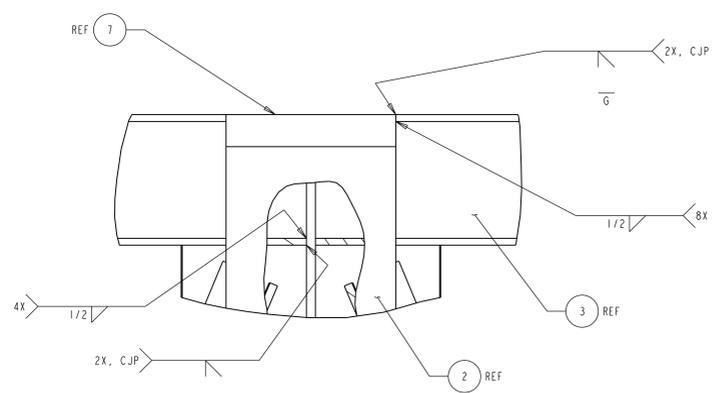
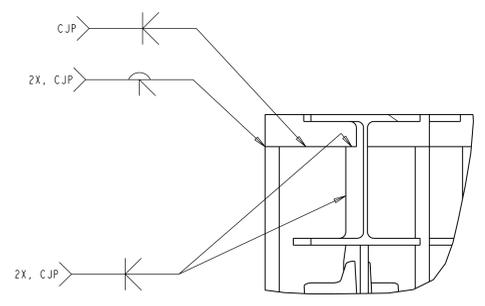
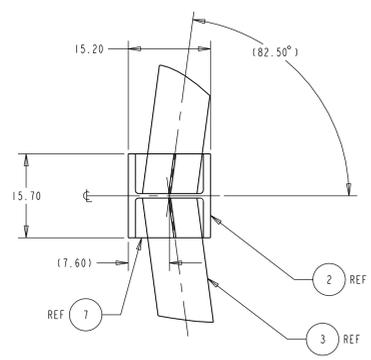
VIEW F 2X
SCALE: 1/10
SHEET 2
ALL PARTS NOT SHOWN FOR CLARITY

- PRELIMINARY -
THIS DRAWING HAS NOT COMPLETED THE
REVIEW PROCESS AND IS SUBJECT TO CHANGE.
05-12-14
DATE

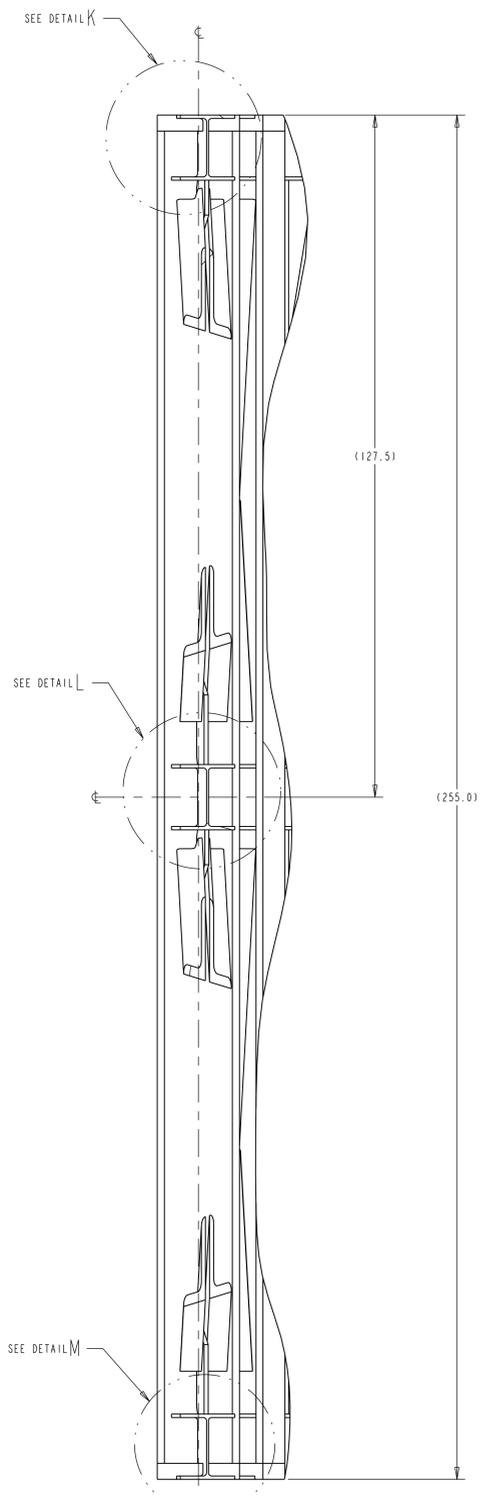
LOX MIDDLE PEDESTAL REGULAR SECTION ASSEMBLY SLS LOX TEST	SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSD GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Huntsville, Alabama
90M14238	REVISION SEE SHEET 1
3	5

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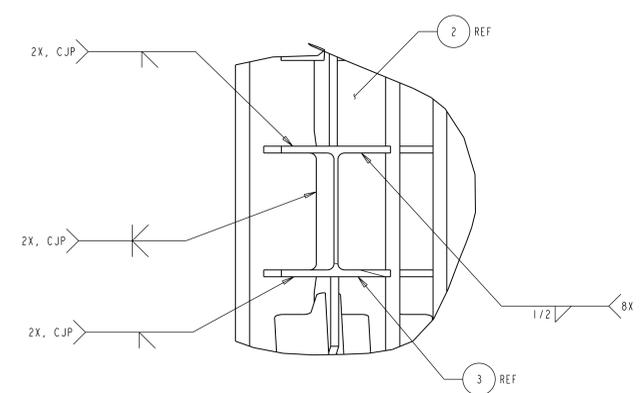
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL



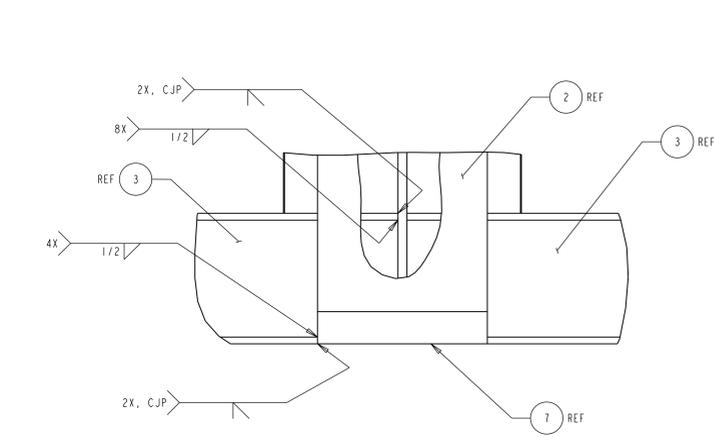
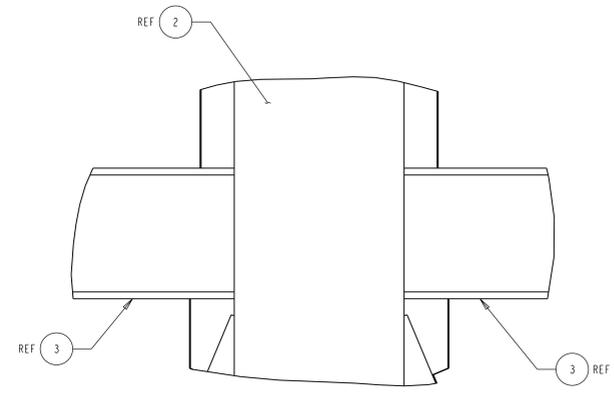
DETAIL K 6X
SCALE: 1/6
ALL PARTS NOT SHOWN FOR CLARITY



SECTION G-G
SCALE: 1/12
ALL PARTS NOT SHOWN FOR CLARITY
SHEET 2



DETAIL L 6X
SCALE: 1/6



DETAIL M 6X
SCALE: 1/6

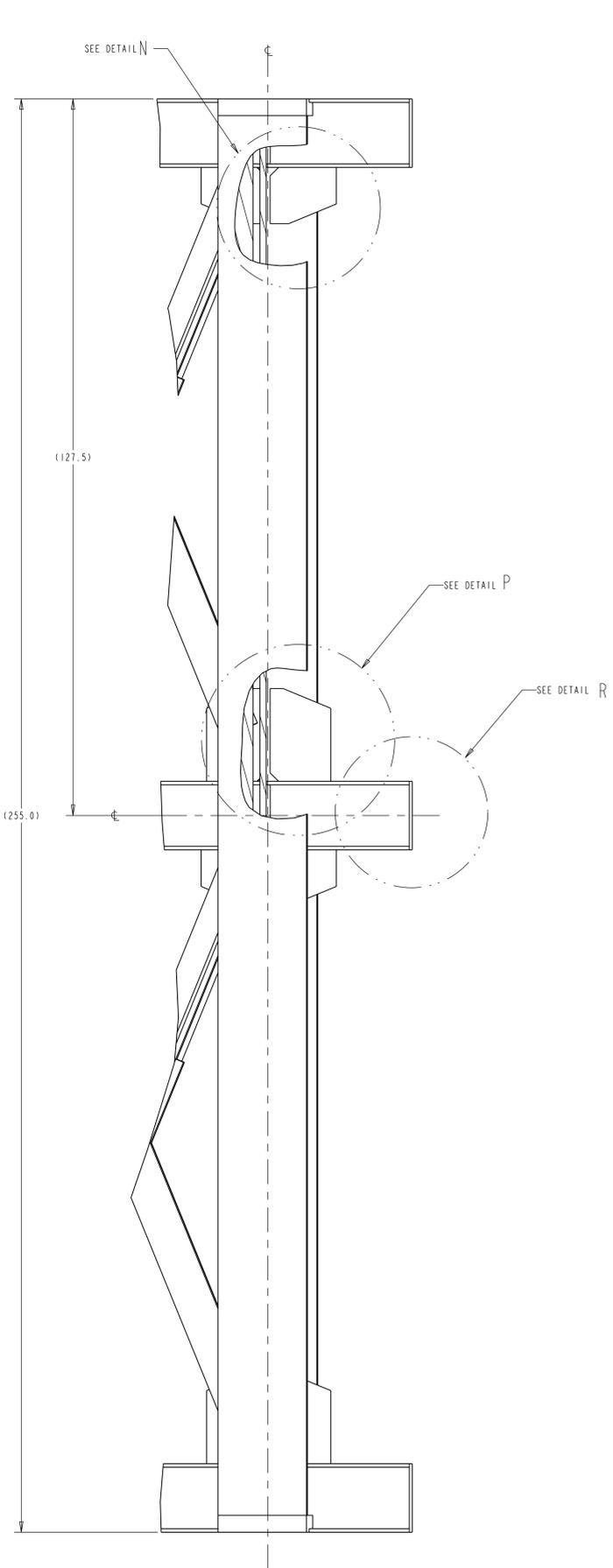
- PRELIMINARY -
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05-12-14
DATE

LOX MIDDLE
PEDESTAL REGULAR
SECTION ASSEMBLY
SLS LOX TEST

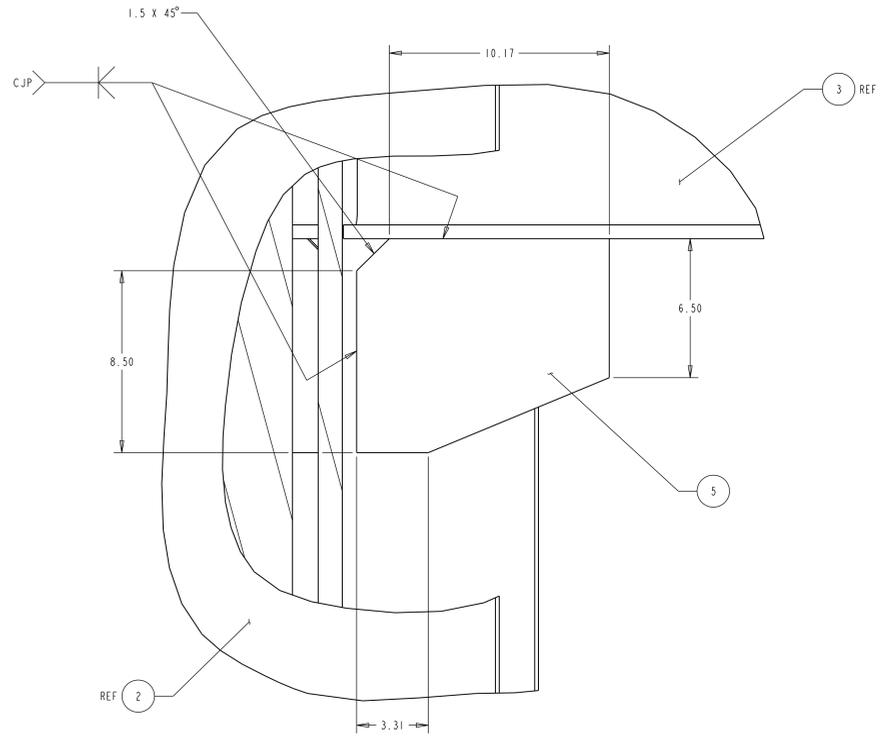
SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSD GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MOBILE, ALABAMA	90M14238	REVISION SEE SHT 1
DATE	4	5

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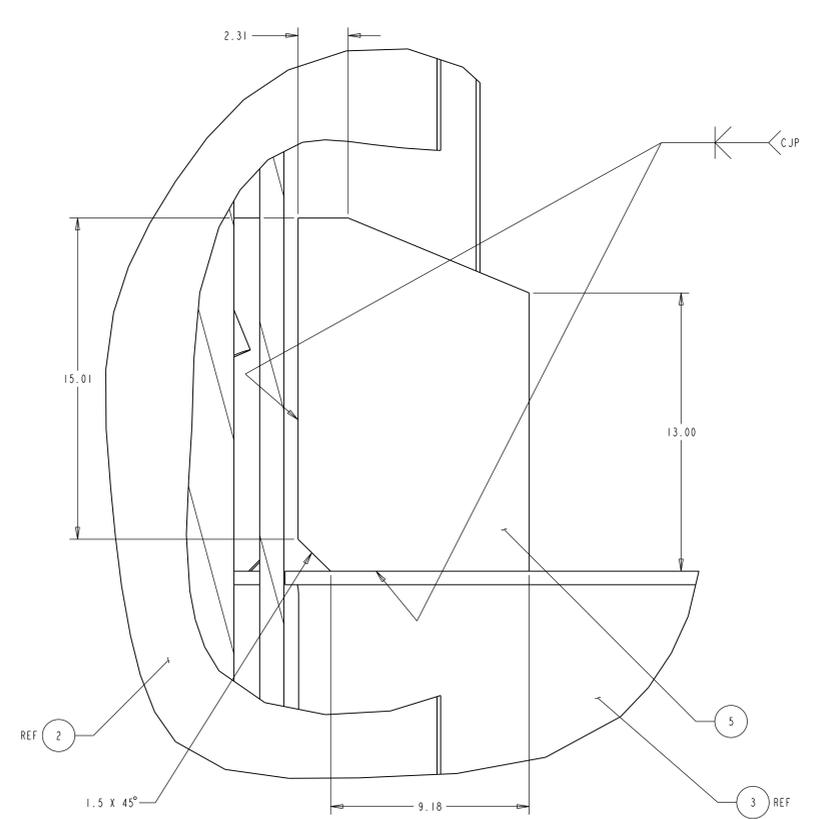
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SYM	DESCRIPTION	DATE	APPROVAL



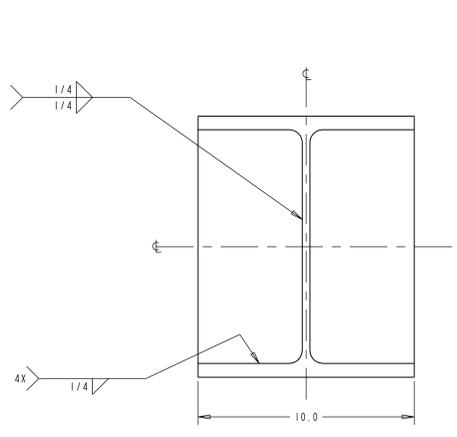
VIEW H
SCALE: 1/10
ALL PARTS NOT SHOWN FOR CLARITY
SHEET 2



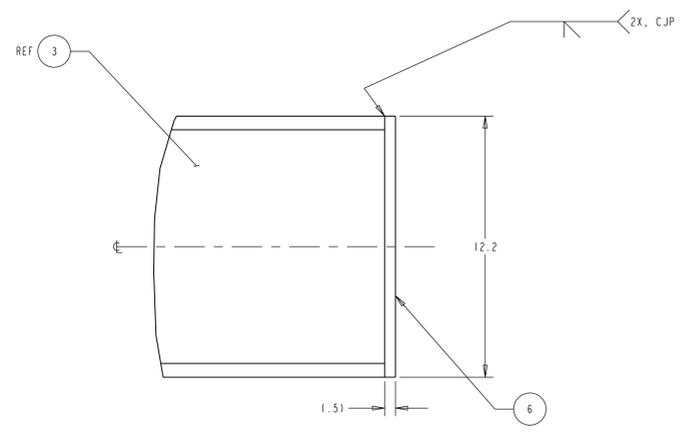
DETAIL N 2X
SCALE: 1/3



DETAIL P 2X
SCALE: 1/3



DETAIL R 6X
SCALE: 1/3
ALL PARTS NOT SHOWN FOR CLARITY



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DATE

LOX MIDDLE PEDESTAL REGULAR SECTION ASSEMBLY SLS LOX TEST		SPECIAL TEST EQUIPMENT DESIGN BRANCH - ETSO GEORGE C. MARSHALL SPACE FLIGHT CENTER NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Huntsville, Alabama	
90M14238		REVISION SEE SHT 1	5