

ABT-1-9 AMBIENT BREEZE TUNNEL

DRAWING

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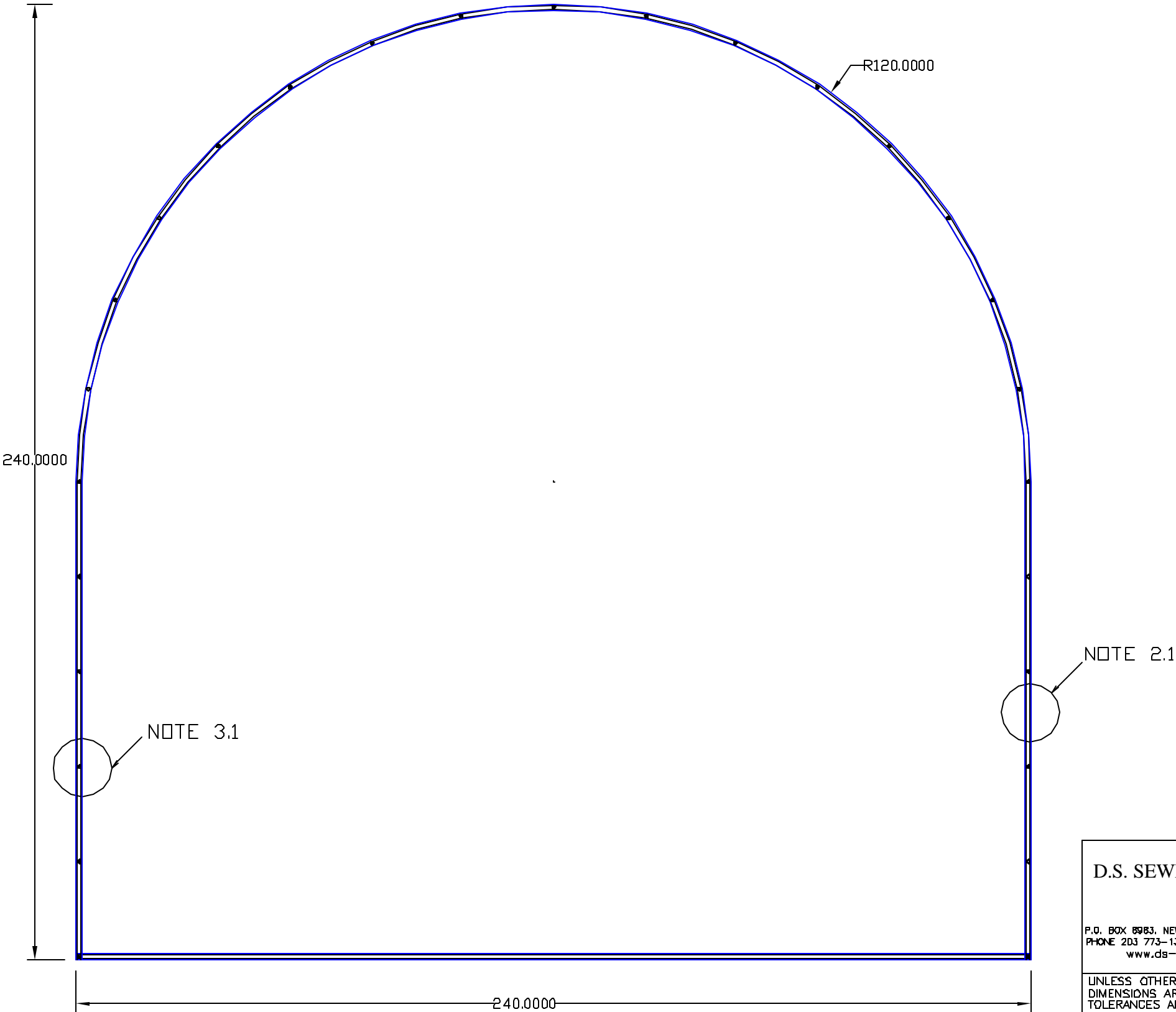
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D.S. SEWING INC. P.O. BOX 8983, NEW HAVEN, CT 06532 USA PHONE 203 773-1344 FAX 203 773-1778 www.ds-sewing.com	ALL DRAWINGS ARE IN INCHES		ABT-1-9 AMBIENT BREEZE TUNNEL CONTENTS	
	DESIGNED BY NERI TERAN	DATE 11/29/07		
	CHECKED BY HONGYANG	DATE 11/29/07		
	CHECKED BY DAVID STAINHARDT	DATE 11/29/07	TITLE ABT-1-9 AMBIENT BREEZE TUNNEL	
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE +/- ONE INCH		CAGE CODE: 00GB3	
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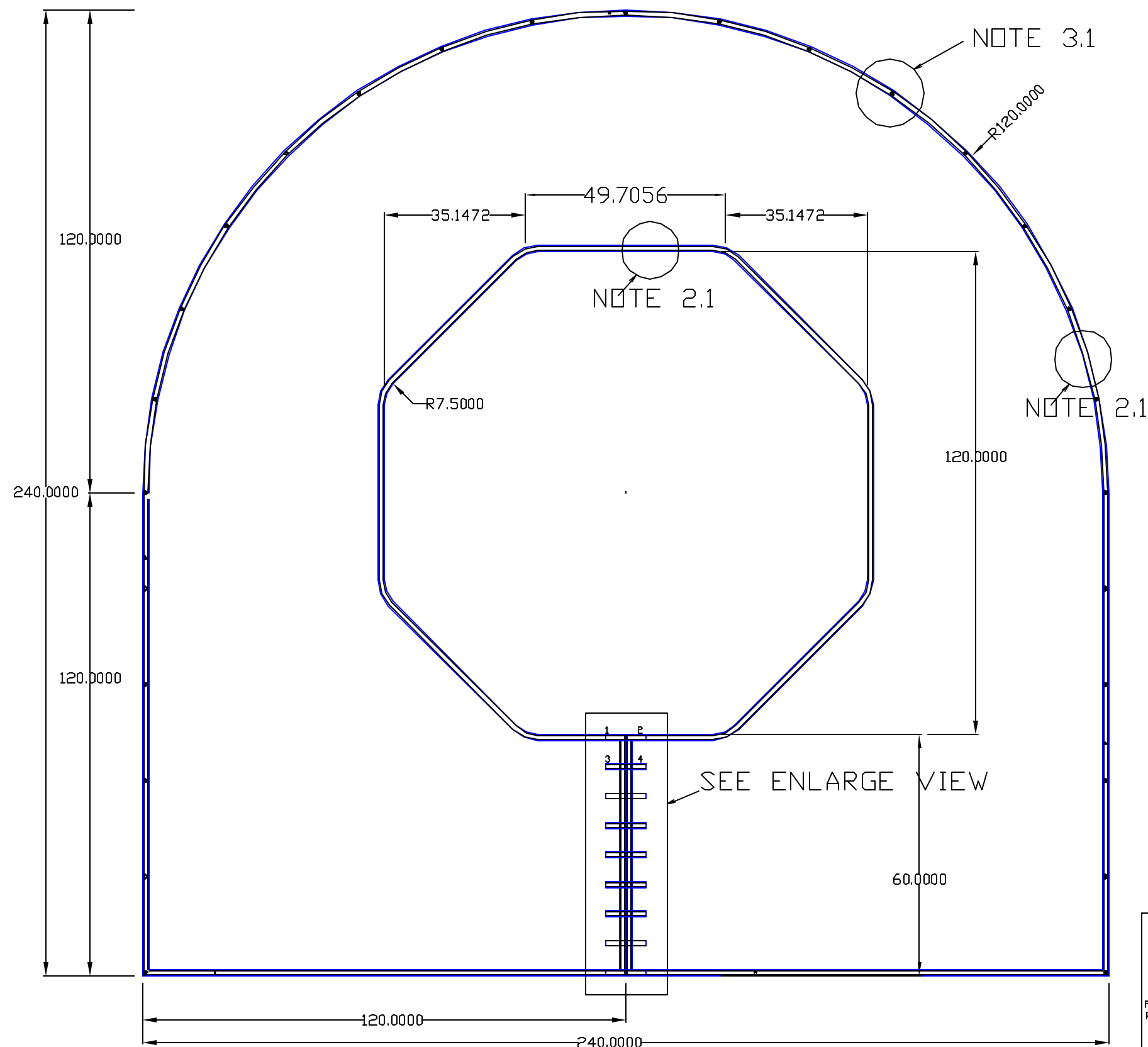


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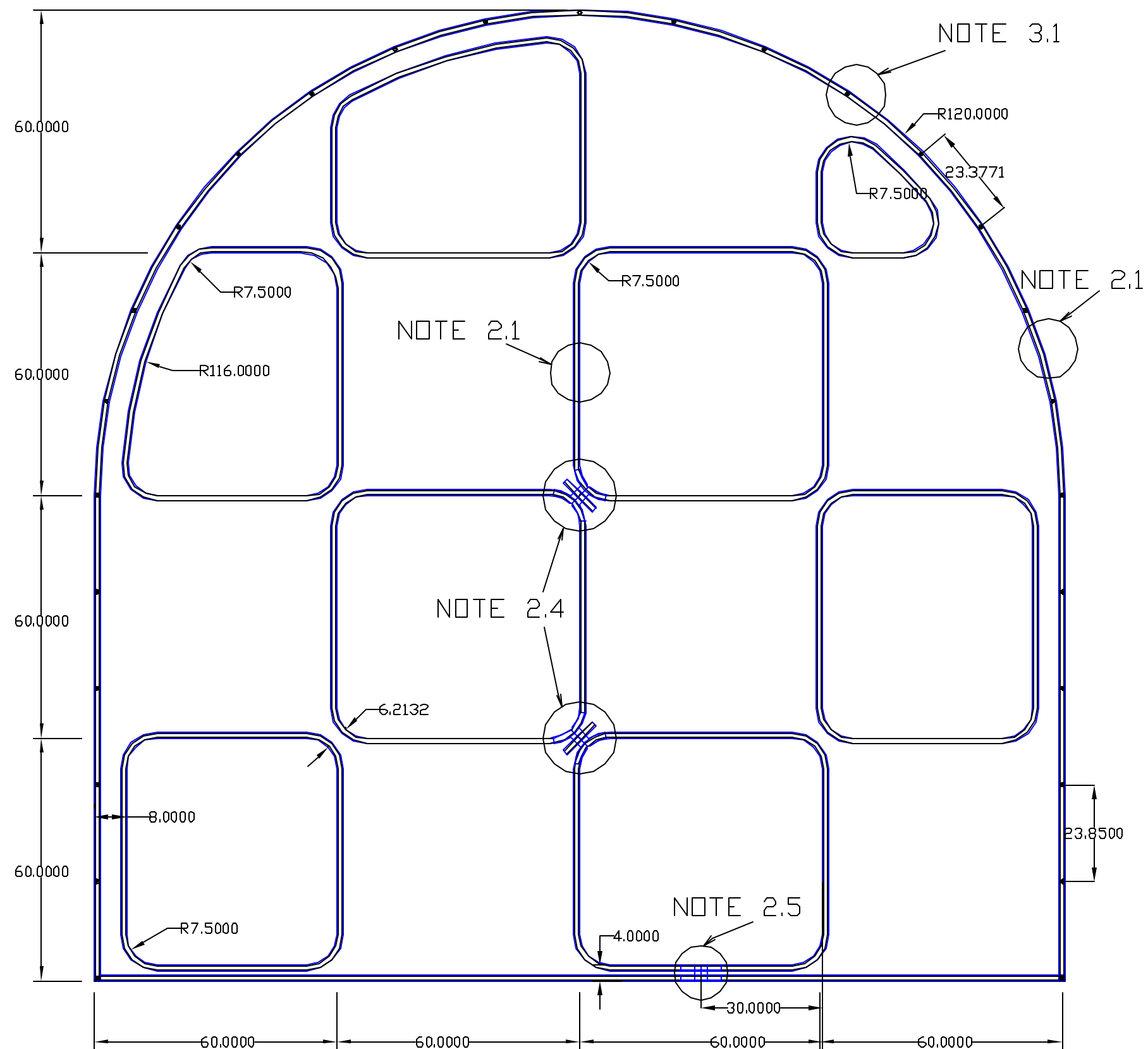
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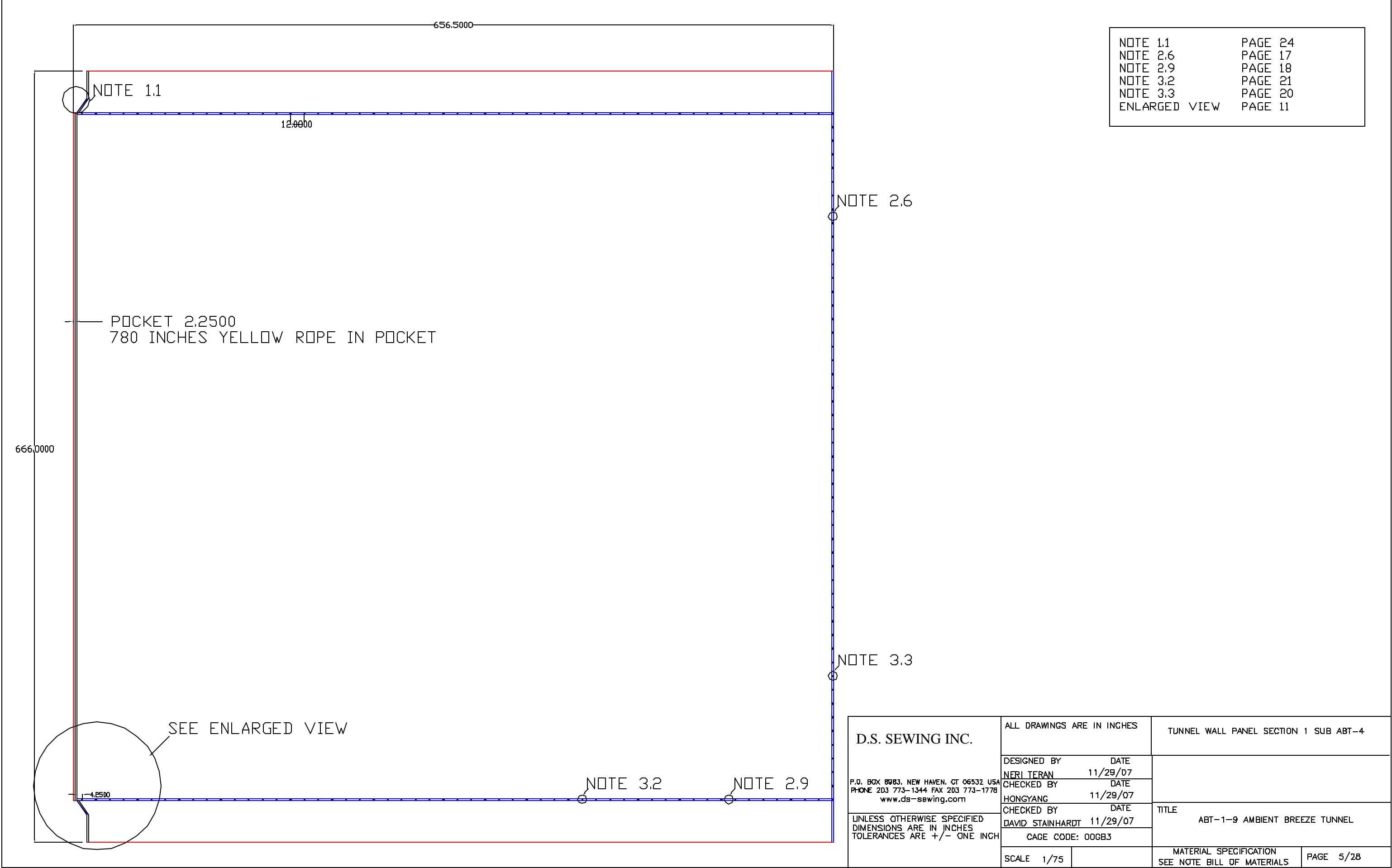
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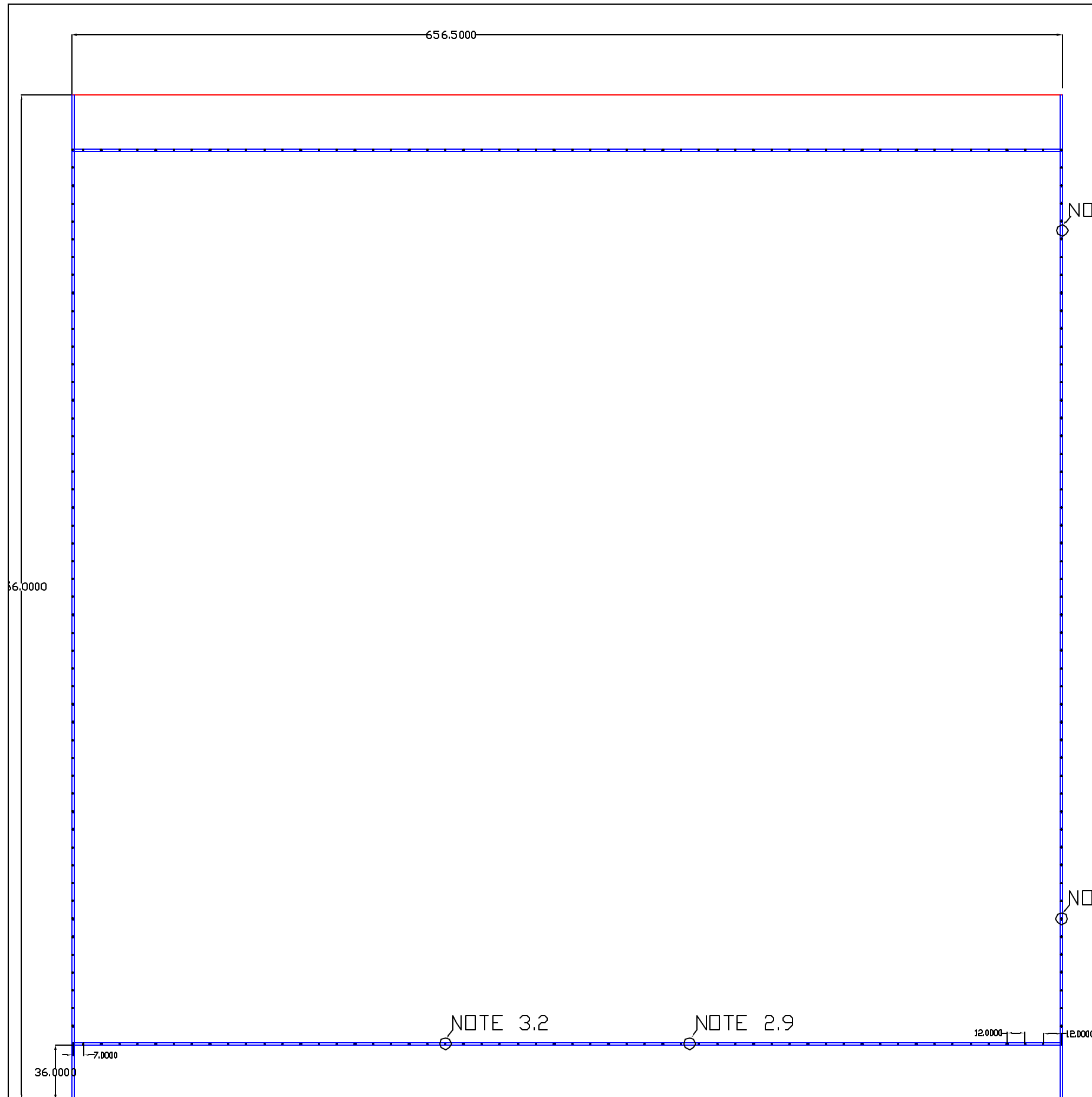
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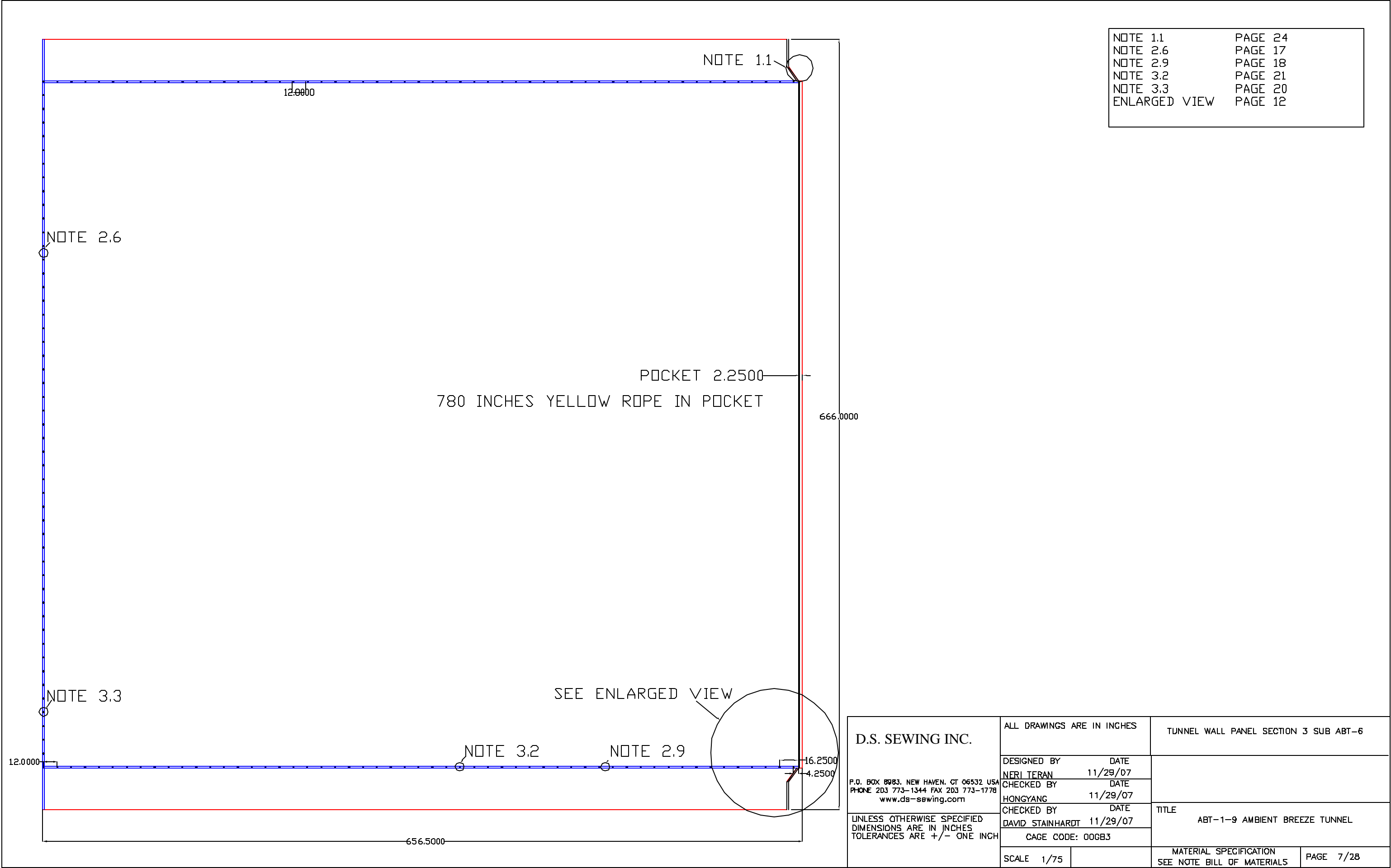
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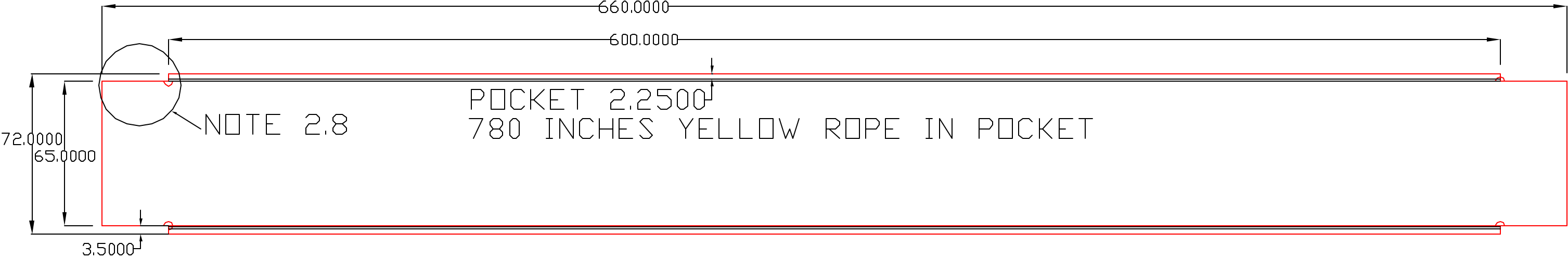


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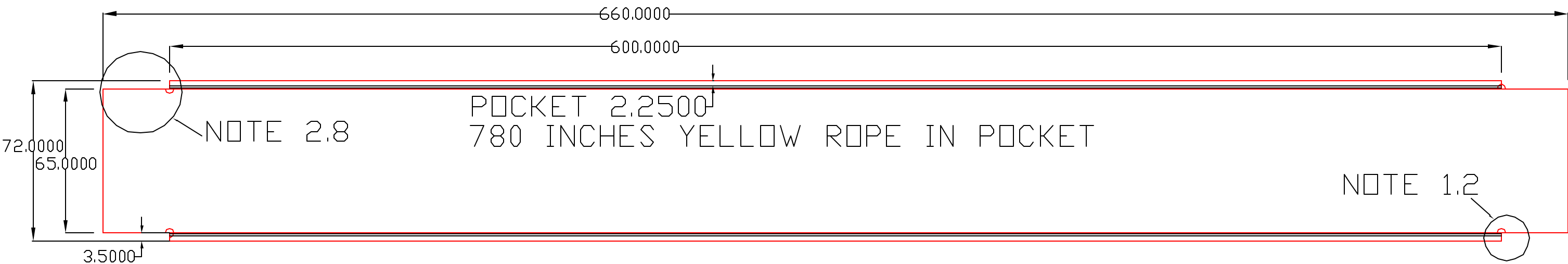


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	SCALE	1/45	MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	PAGE 8/28

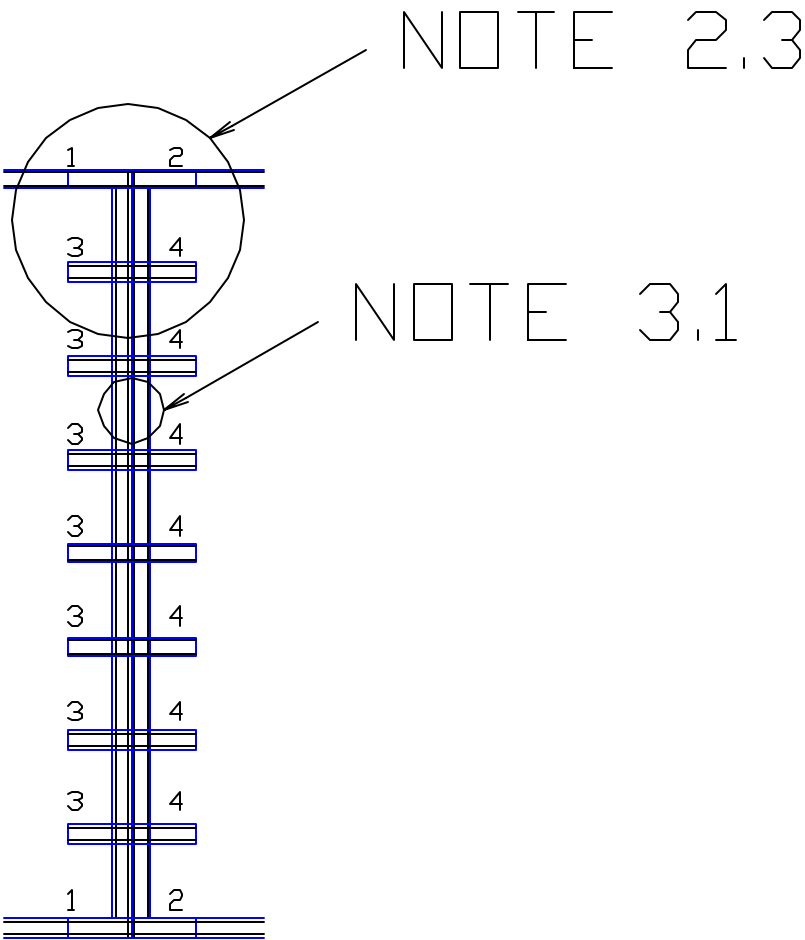
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	DAVID STAINHARDT	11/29/07		
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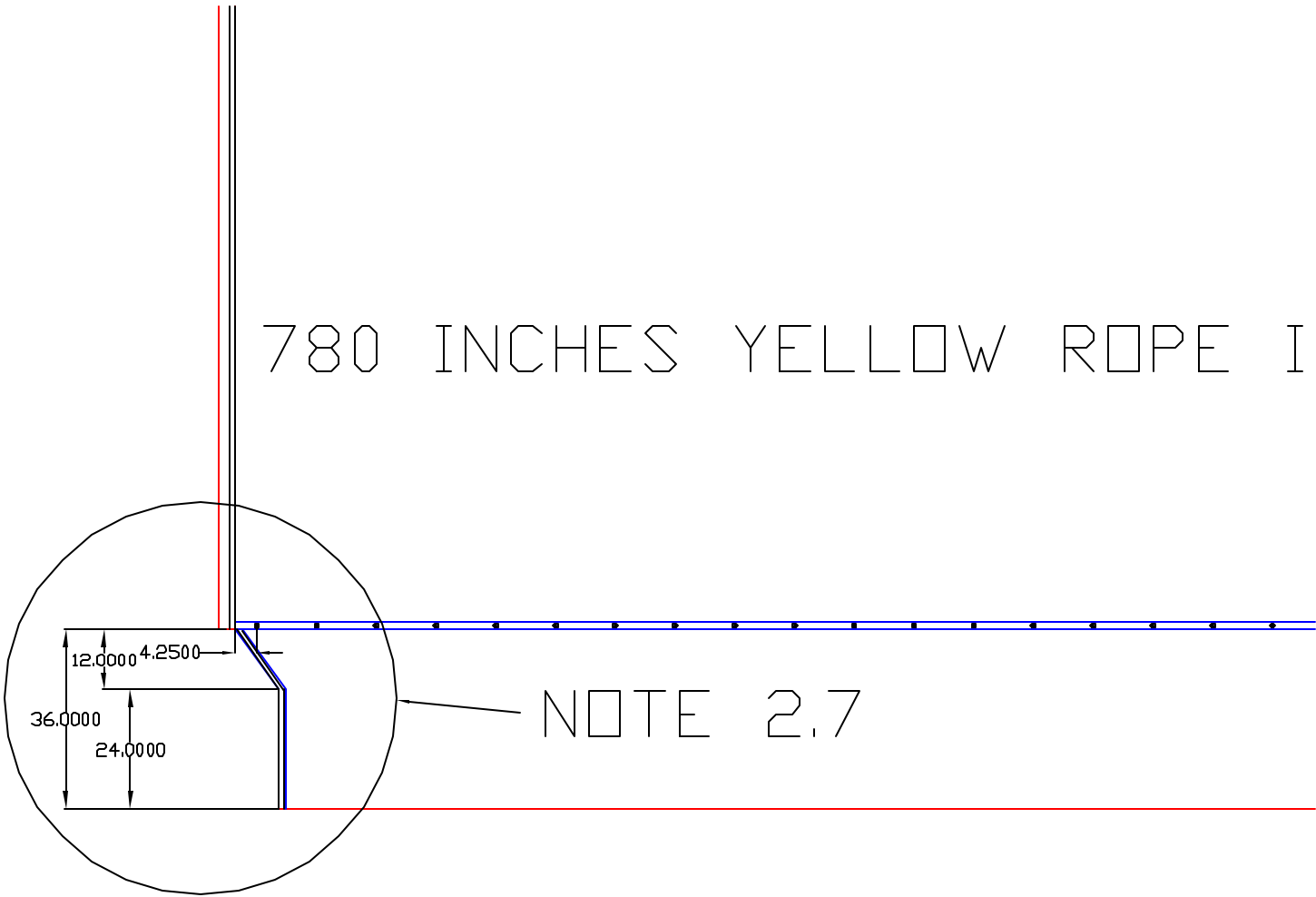
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	CHECKED BY DAVID STAINHARDT	DATE 11/29/07	TITLE ABT-1-9 AMBIENT BREEZE TUNNEL	
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SCALE 1/15			MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	PAGE 10/28

ENLARGED VIEW TUNNEL WALL PANEL SECTION 1 SUB ABT-4

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780 INCHES YELLOW ROPE IN POCKET

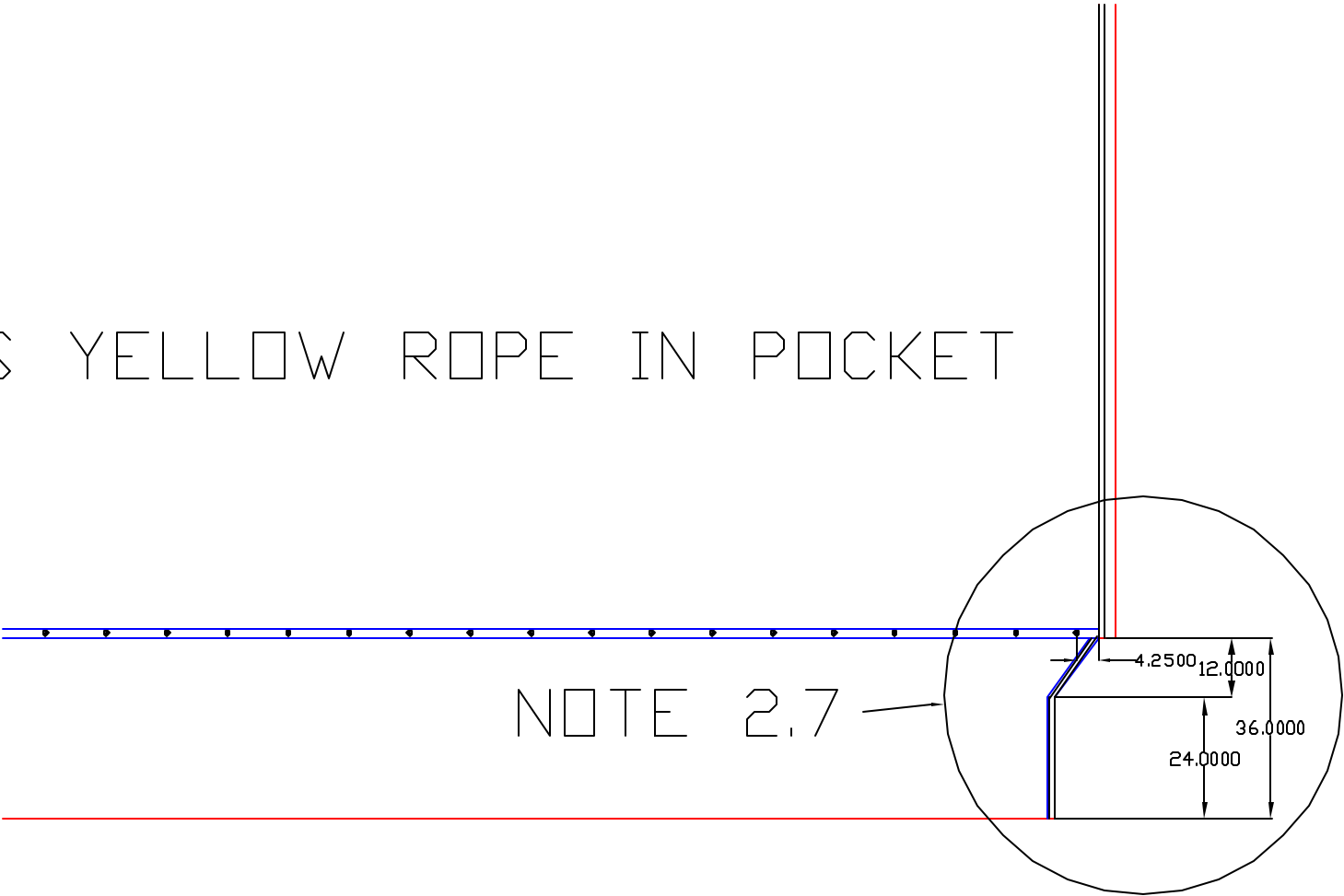
NOTE 2.7

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ENLARGED VIEW TUNNEL WALL PANEL SECTION 3 SUB ABT-6

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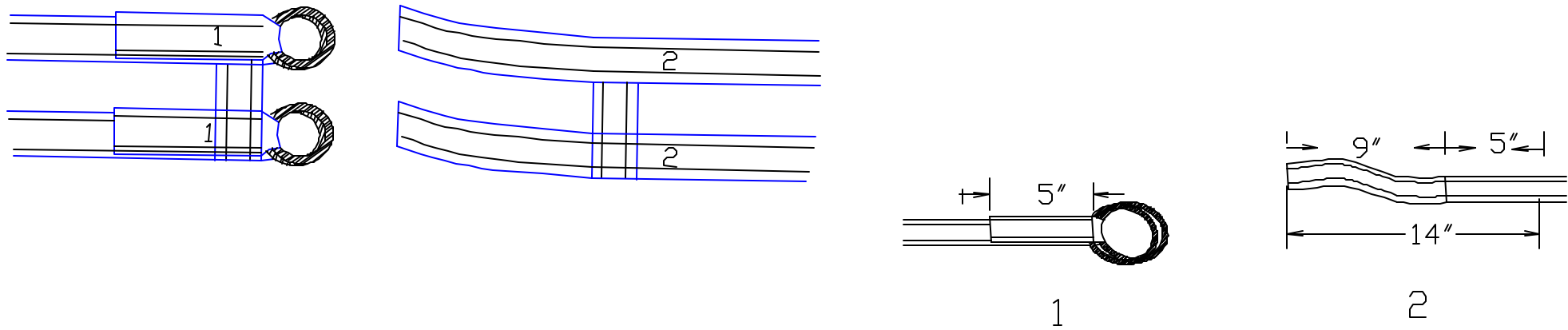
780 INCHES YELLOW ROPE IN POCKET



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	DAVID STAINHARDT	11/29/07		
	CAGE CODE: 00GB3			
SCALE 1/35			MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	PAGE 12/28

NOTE 2.5 STRAP CONSTRUCTION

STICH (ST1)	PAGE 26
Ø-RING (5)	PAGE 28
NOTE 2.1	PAGE 16

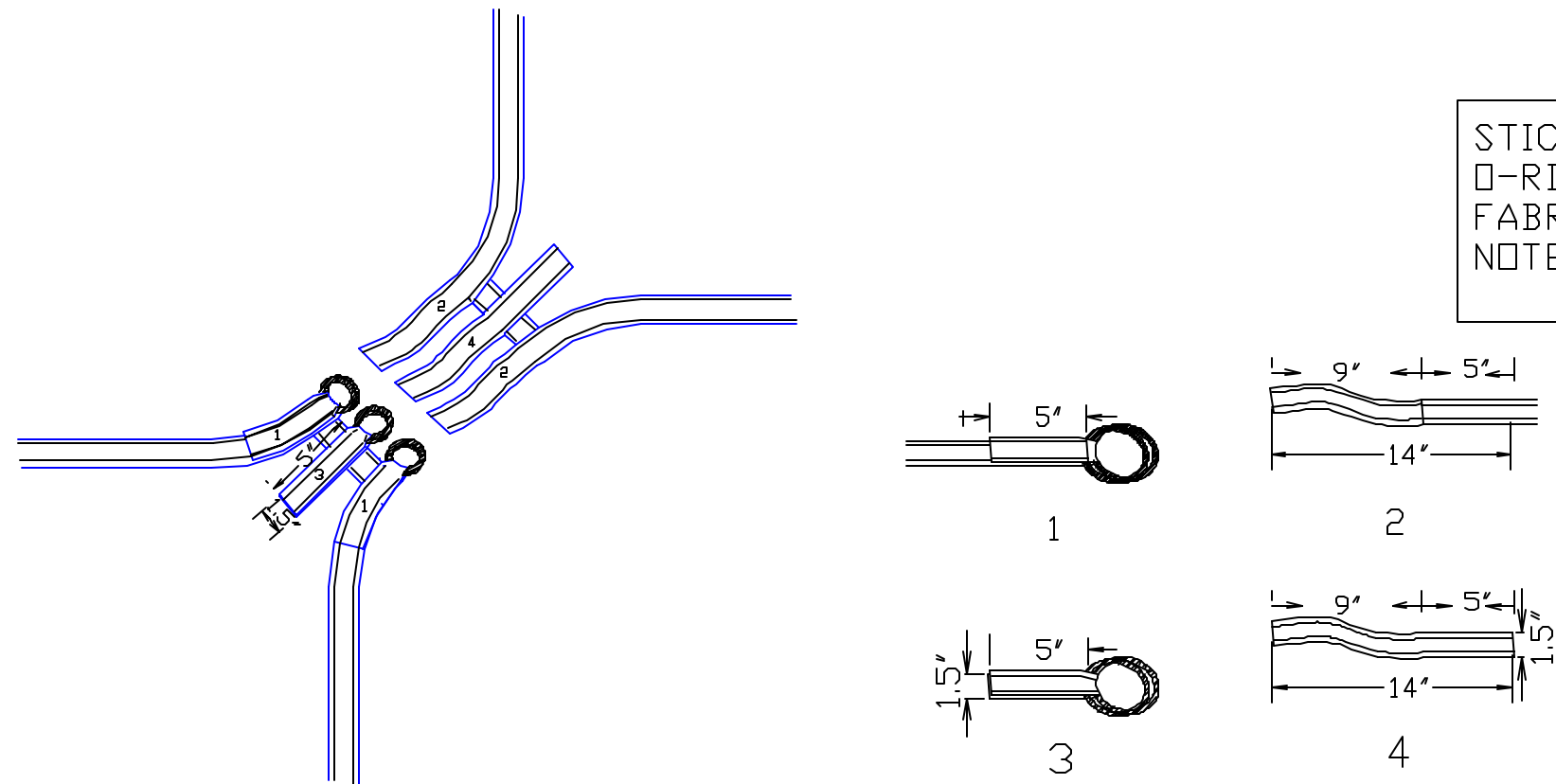


PLEASE NOTE THAT REFERENCE NUMBERS ARE RELEVANT TO THE ENLARGED VIEW.

REF.	DESCRIPTION
#1:	BINDING (NOTE 2.1) EXTENDB 5" AND STICHES (ST1) BACK TO ITSELF AND FORM A LOOP THAT HOLD TWO Ø-RINGS (5).
#2:	EXTEND 9" BINDING (NOTE 2.1) AS A BELT FOR Ø-RINGS (5) TIGHTING.

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	CAGE CODE: 00GB3		ABT-1-9 AMBIENT BREEZE TUNNEL	
	SCALE			
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NOTE 2.4 STRAP CONSTRUCTION



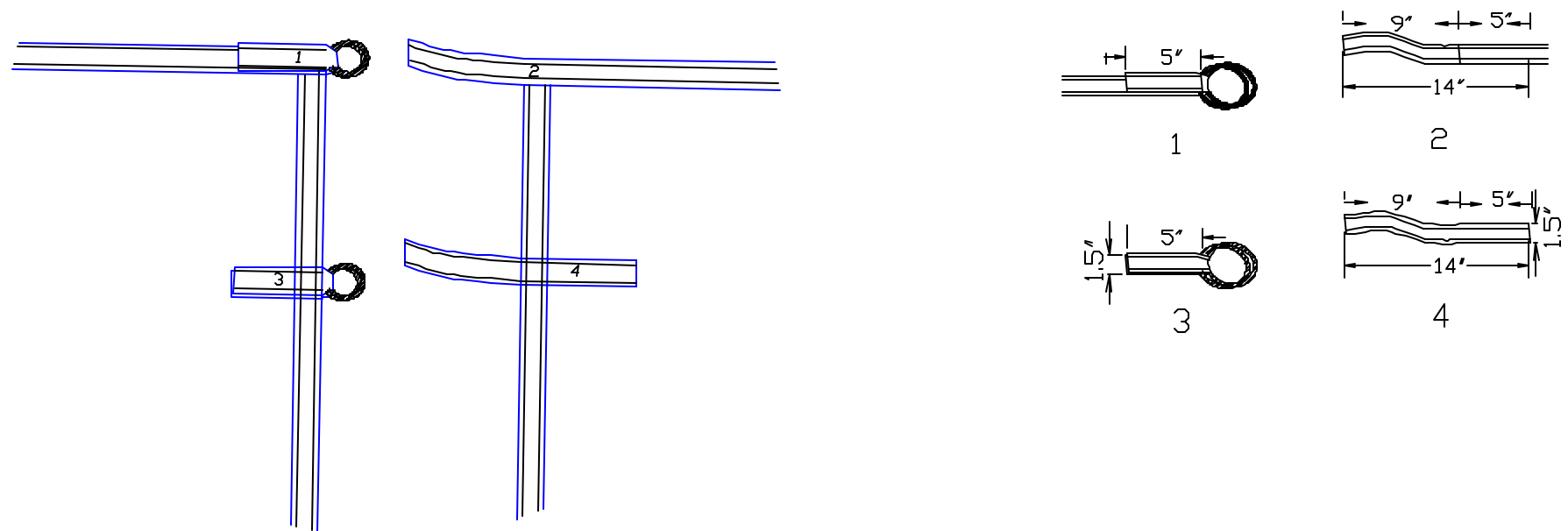
PLEASE NOTE THAT REFERENCE NUMBERS ARE RELEVANT TO NUMBERS IN THE ENLARGED VIEW.

REF.	DESCRIPTION
#1:	BINDING (NOTE 2.1) EXTEND 5" AND STICHES (ST1) BACK TO ITSELF TO FORM A LOOP THAT HOLD TWO Ø-RINGS (5).
#2:	EXTEND 9" BINDING (NOTE 2.1) AS A BELT FOR Ø-RING TIGHTING.
#3:	ATTACH TWO Ø-RINGS (5) TO 5" IN LENGTH OF FOLDED BINDING (NOTE 2.1) STICHED (ST1) ON THE FABRIC (1).
#4:	USING 14" IN LENGTH OF BINDING (NOTE 2.1), SEW 5" TO THE FABRIC (1) AND LEAVE A 9" BINDING (NOTE 2.1) BELT FOR Ø-RING (5) TIGHTING.

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CAGE CODE: 00GB3				
NON-SCALED				
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NOTE 2.3 STRAP CONSTRUCTION

STICH (ST1)	PAGE 26
O-RING (5)	PAGE 28
FABRIC (1)	PAGE 28
NOTE 2.1	PAGE 16



PLEASE NOTE THAT REFERENCE NUMBERS ARE RELEVANT TO NUMBERS IN THE ENLARGED VIEW.

REF.	DESCRIPTION
#1:	BINDING (NOTE 2.1) EXTEND 5" AND STICHES (ST1) BACK TO ITSELF TO FORM A LOOP THAT HOLD TWO O-RINGS (5).
#2:	EXTEND 9" BINDING (NOTE 2.1) AS A BELT FOR O-RING (5) TIGHTING.
#3:	ATTACH TWO O-RINGS (5) TO 5" IN LENGTH OF FOLDED BINDING (NOTE 2.1) STICHED (ST1) ON THE FABRIC (1).
#4:	USING 14" IN LENGTH OF BINDING (NOTE 2.1), SEW 5" TO THE FABRIC (1) AND LEAVE A 9" BINDING (NOTE 2.1) BELT FOR O-RING (5) TIGHTING.

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	CAGE CODE: 00GB3		ABT-1-9 AMBIENT BREEZE TUNNEL	
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NOTE 2.1 BINDING EDGE CONSTRUCTION

SEAM (SE2)	PAGE 26
FABRIC (1)	PAGE 28
WEBBING (2.2)	PAGE 28
STITCH (ST1)	PAGE 26

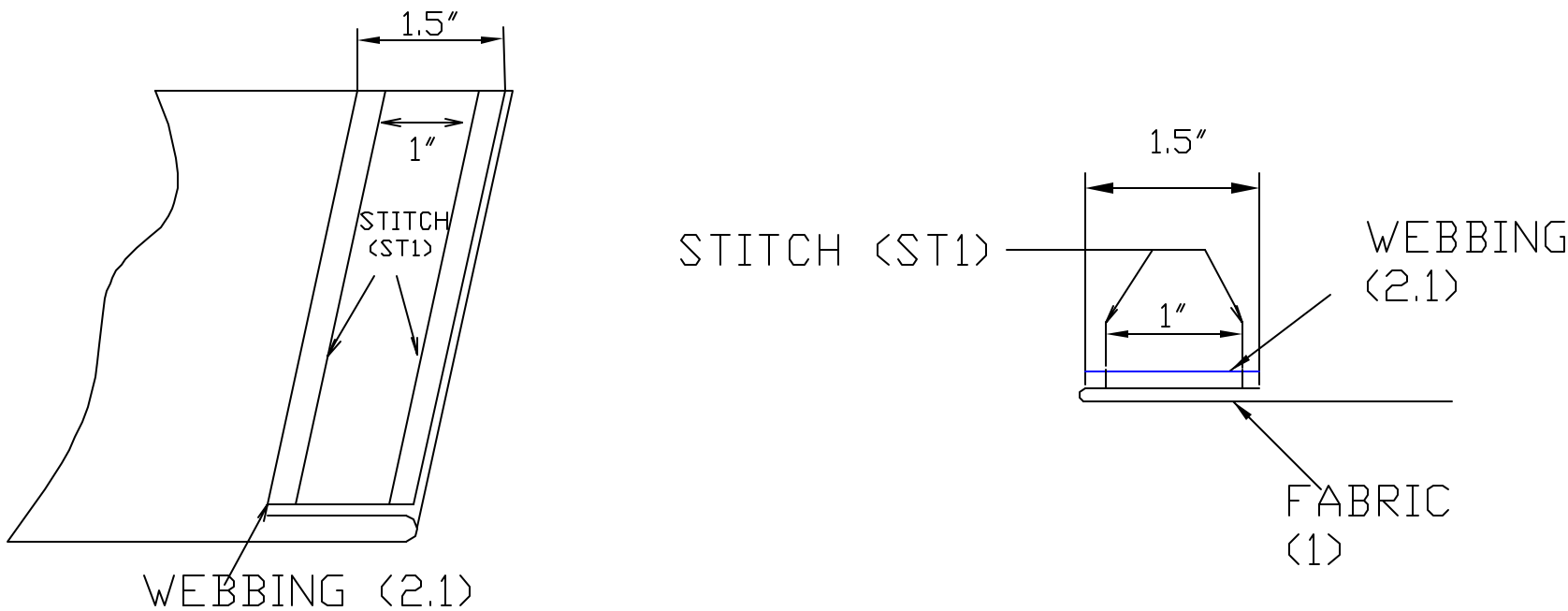


ALL THE EDGES ARE REINFORCED BY BINDING.
THE BINDING CONSTRUCTION SEAM (SE2) SHALL BE FORMED BY FOLDING A BINDING STRIP OVER THE EDGE OF THE FABRIC (1) AND SEAMING THE BINDING WEBBING (2.2) AND FABRIC (1) WITH TWO ROWS OF STICHES (ST1).

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2.6 HEM CONSTRUCTION

SEAM (SE1)	PAGE 26
FABRIC (1)	PAGE 28
WEBBING (2.1)	PAGE 28
STITCH (ST1)	PAGE 26

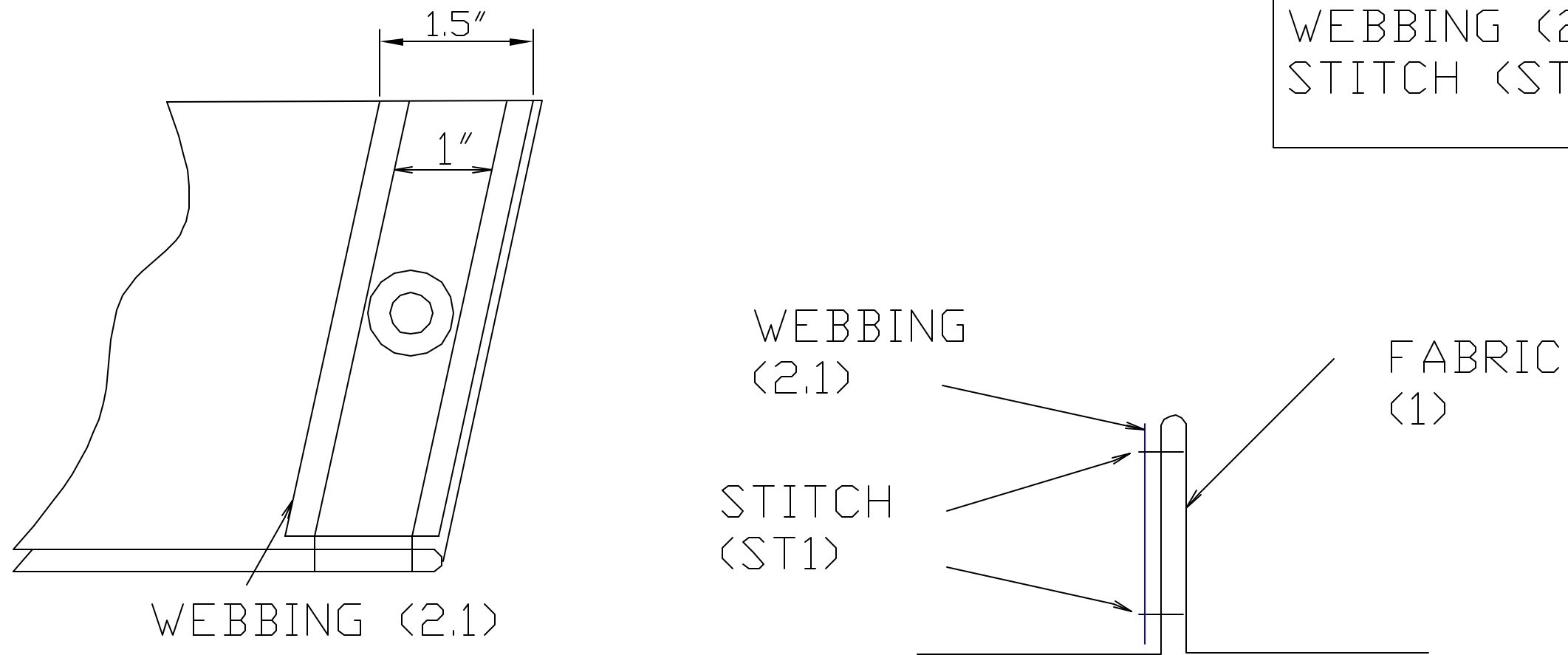


THIS SEAM (SE1) SHALL BE FORMED BY SUPERIMPOSING WEBBING (2.1) OVER THE FOLDED 1.5" EDGE OF THE FABRIC (1) WITH STICH (ST1).

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	CHECKED BY	DATE		
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	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
	DAVID STAINHARDT	11/29/07		
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NOTE 2.9 PINCH PLEAT CONSTRUCTION

SEAM (SE1)	PAGE 26
FABRIC (1)	PAGE 28
WEBBING (2.1)	PAGE 28
STITCH (ST1)	PAGE 26

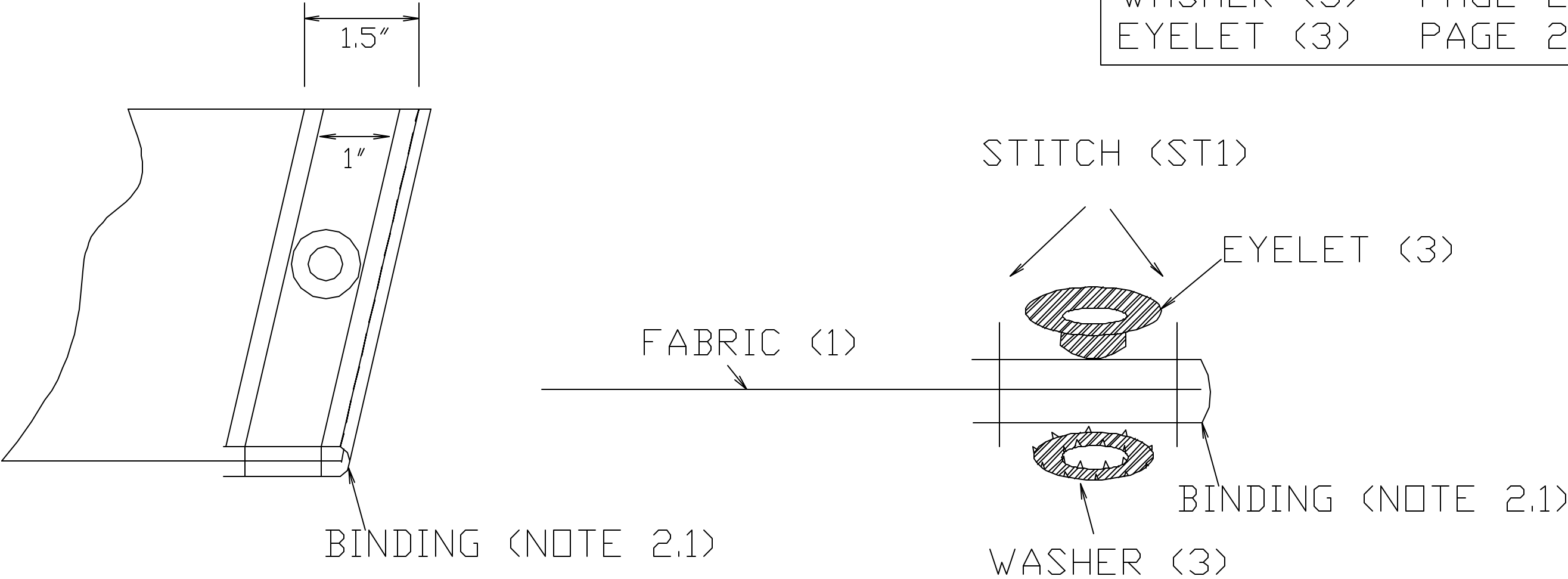


THIS TYPE OF SEAMING (SE1) SHALL BE PRODUCED BY FOLDING FABRIC (1) AND REINFORCED WITH WEBBING (2.1) STICHED (ST1).

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NON-SCALED			MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	PAGE 18/28

NOTE 3.1 GROMMET INSTALATION ON BINDING

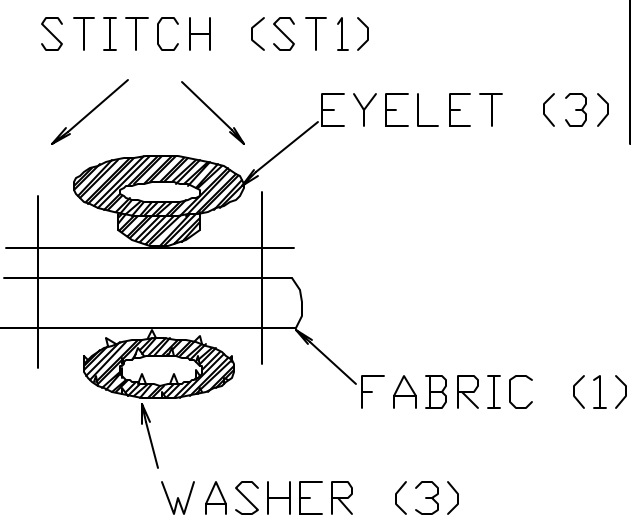
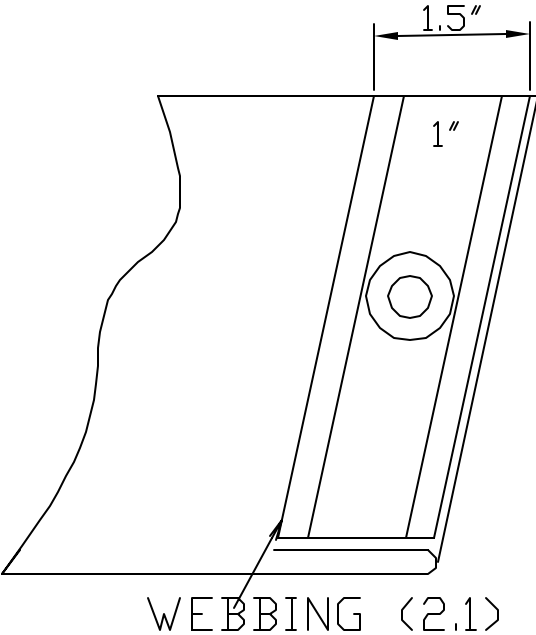
FABRIC (1)	PAGE 28
STITCH (ST1)	PAGE 26
NOTE 2.1	PAGE 16
WASHER (3)	PAGE 28
EYELET (3)	PAGE 28



GROMMETS (3) SHALL BE MACHINE INSTALED BETWEEN STICHES (ST1) AT 23.85" AND 23.3771" (APPROX.). THE SPUR OF THE WASHER (3) MUST BE ROLLED AND LOCKED INTO THE RIM OF THE EYELET (3).

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	DESIGNED BY	DATE	TITLE	
	NERI TERAN	11/29/07		
	CHECKED BY	DATE		
	HONGYANG	11/29/07		
	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
	DAVID STAINHARDT	11/29/07		
	CAGE CODE: 00GB3			
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NOTE 3.3 GROMMET INSTALATION ON HEM



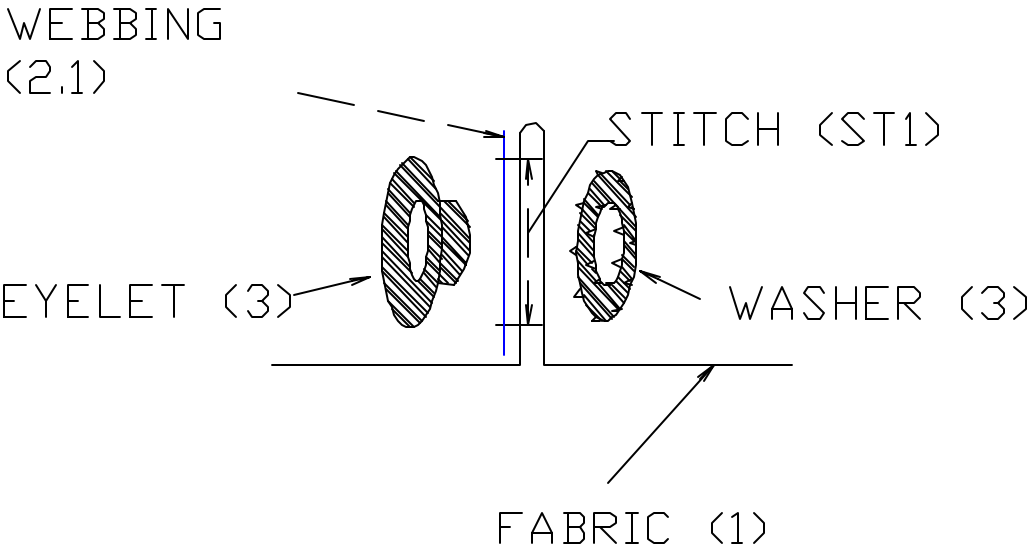
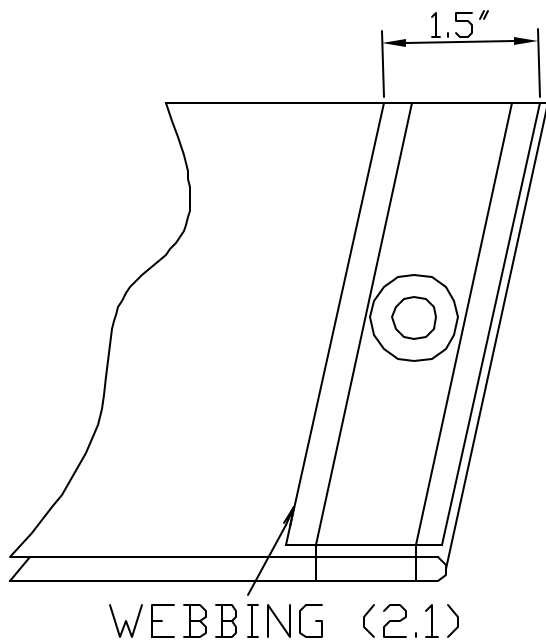
FABRIC (1)	PAGE 28
WEBBING (2.1)	PAGE 28
STITCH (ST1)	PAGE 26
WASHER (3)	PAGE 28
EYELET (3)	PAGE 28

GROMMETS (3) SHALL BE MACHINE INSTALED BETWEEN STICHES (ST1) AT 12" INTERVALS (APPROX.). THE SPUR OF THE WASHER (3) MUST BE ROLLED AND LOCKED INTO THE RIM OF THE EYELET (3).

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	DESIGNED BY	DATE	TITLE	
	NERI TERAN	11/29/07		
	CHECKED BY	DATE		
	HONGYANG	11/29/07		
	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
	DAVID STAINHARDT	11/29/07		
	CAGE CODE: 00GB3		MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	
	NON-SCALED			
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NOTE 3.2 GROMMET INSTALATION ON PINCH PLEAT

FABRIC (1)	PAGE 28
WEBBING (2.1)	PAGE 28
STITCH (ST1)	PAGE 26
WASHER (3)	PAGE 28
EYELET (3)	PAGE 28

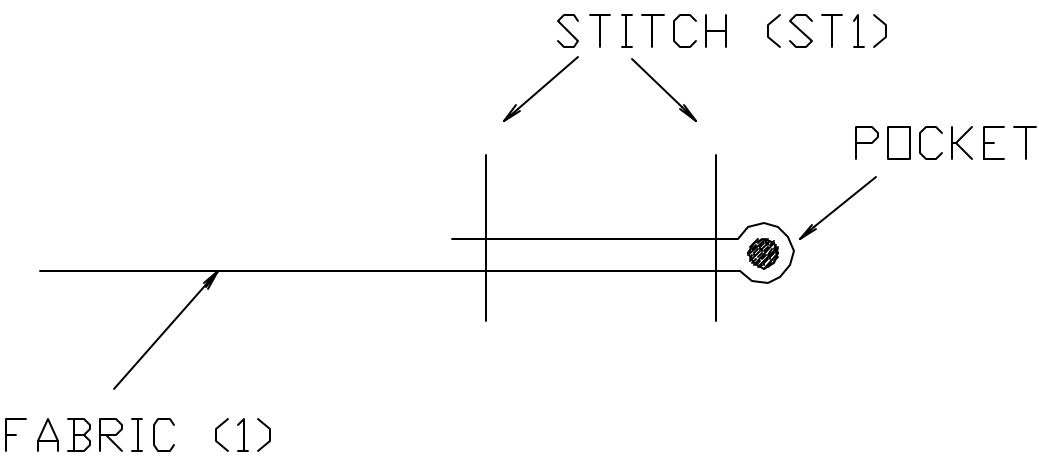
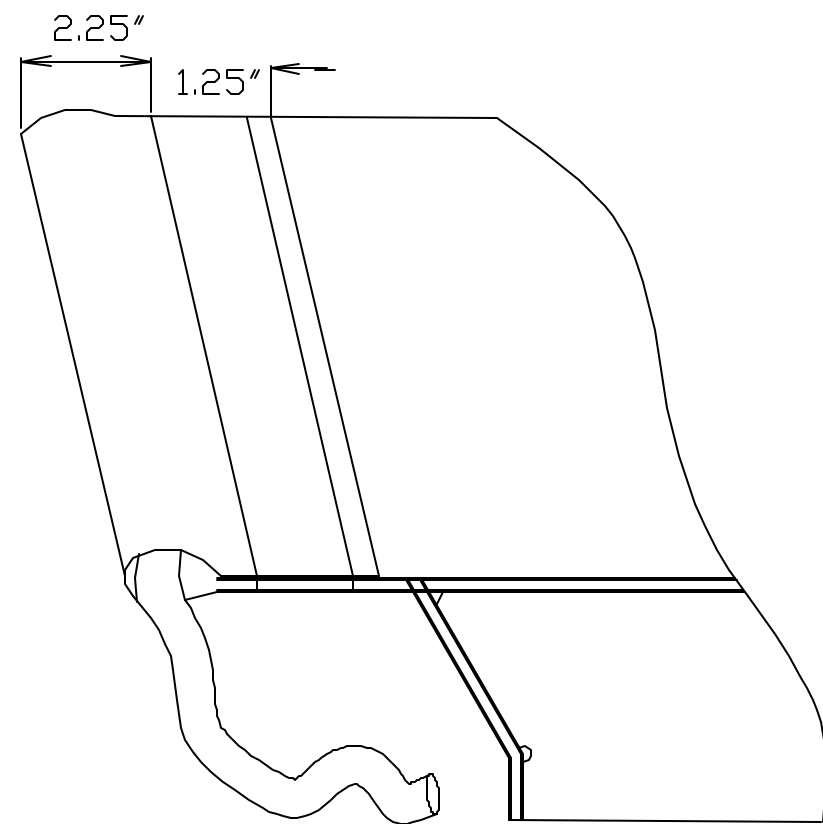


GROMMETS (3) SHALL BE MACHINE INSTALED BETWEEN STICHES (ST1) AT 12" INTERVALS (APPROX.). THE SPUR OF THE WASHER (3) MUST BE ROLLED AND LOCKED INTO THE RIM OF THE EYELET (3).

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	DESIGNED BY	DATE		
	NERI TERAN	11/29/07		
	CHECKED BY	DATE	TITLE	
	HONGYANG	11/29/07		
	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
	DAVID STAINHARDT	11/29/07		
	CAGE CODE: 00GB3			
NON-SCALED			MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	PAGE 21/28

NOTE 2.7 POCKET CONSTRUCTION

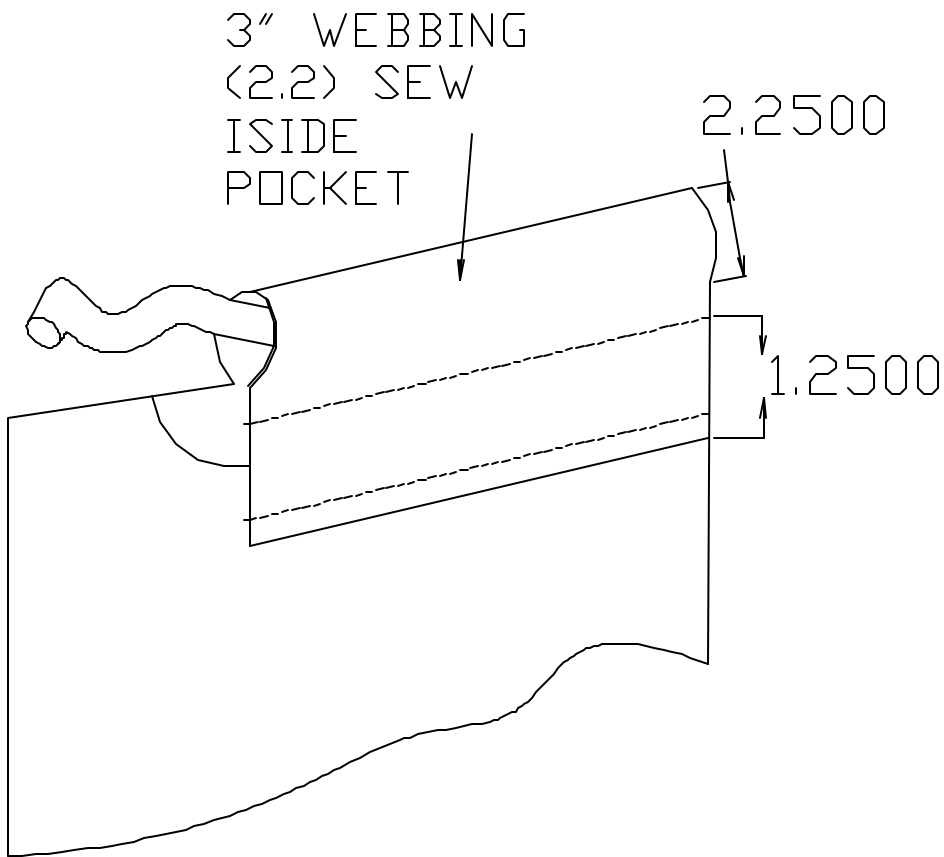
FABRIC (1)	PAGE 28
WEBBING (2.1)	PAGE 28
STITCH (ST1)	PAGE 26
SEAM (SE3)	PAGE 26



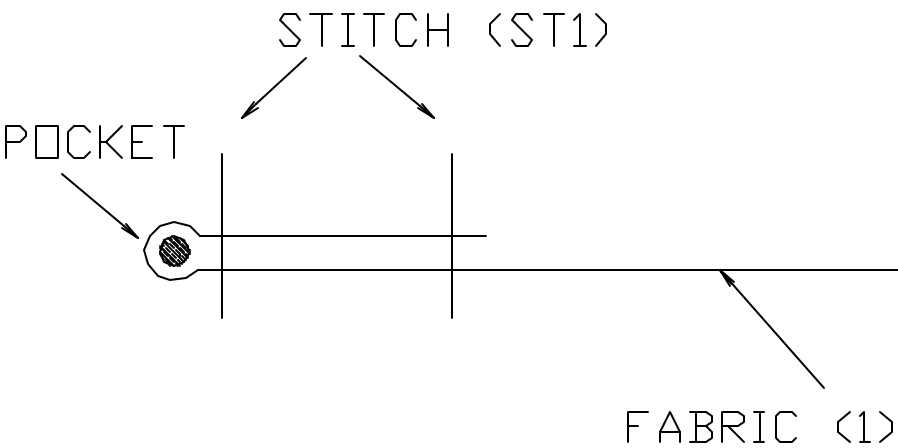
THIS TYPE OF SEAMING (SE3) SHALL BE MADE BY FOLDING 3.5" OF THE FABRIC (1) AND REINFORCED WITH WEBBING (2.1) AT 2" FROM THE EDGE AND STICED (ST1).

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	DESIGNED BY	DATE		
	NERI TERAN	11/29/07		
	CHECKED BY	DATE	TITLE	
	HONGYANG	11/29/07		
	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
	DAVID STAINHARDT	11/29/07		
	CAGE CODE: 00GB3			
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2.8 POCKET CONSTRUCTION



FABRIC (1)	PAGE 28
WEBBING (2.1)	PAGE 28
WEBBING (2.2)	PAGE 28
STITCH (ST1)	PAGE 26
SEAM (SE3)	PAGE 26

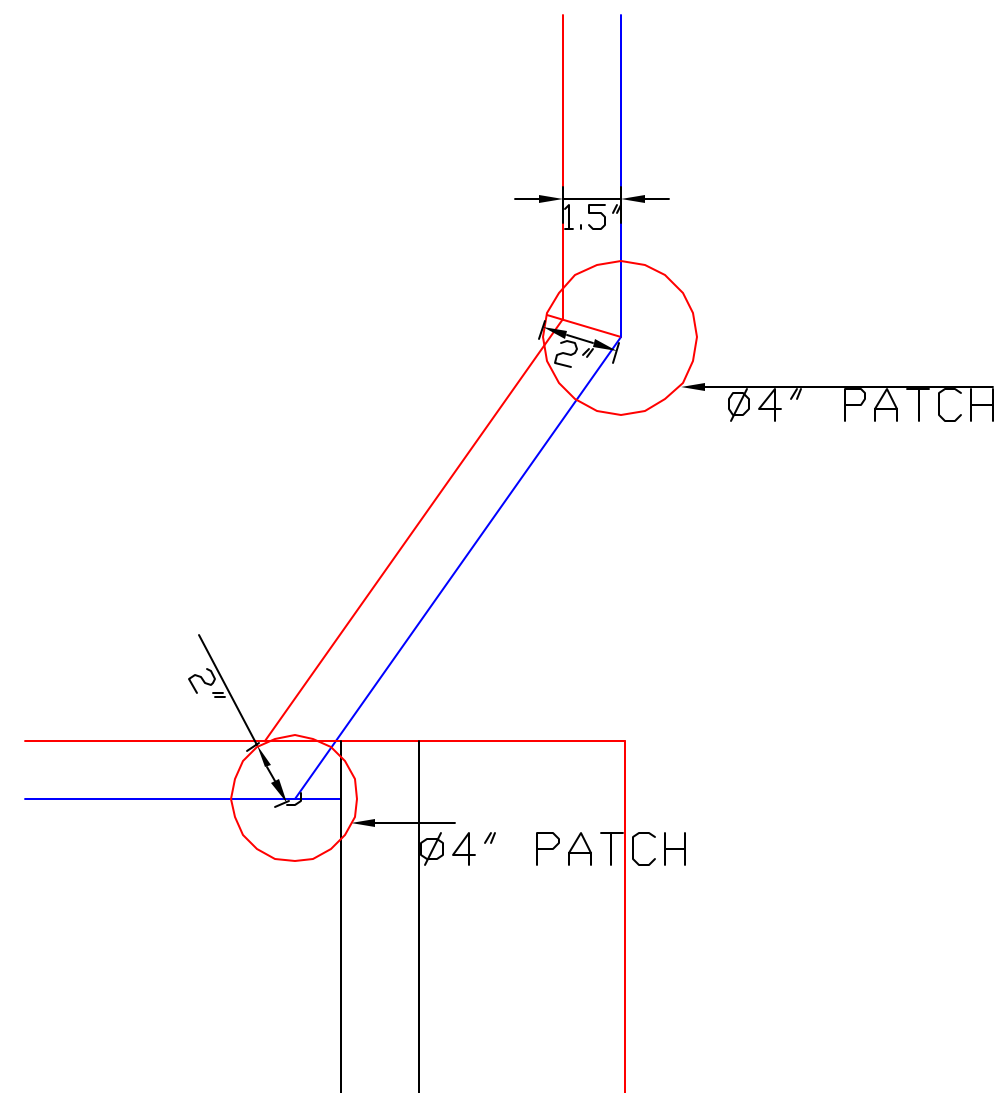


THIS TYPE OF SEAM (SE3) SHALL BE MADE BY FOLDING 3.5" OF THE FABRIC (1) AND REINFORCED WITH WEBBING (2.1) AT 2" FROM THE EDGE AND STICED (ST1).

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	DESIGNED BY	DATE		
	NERI TERAN	11/29/07		
	CHECKED BY	DATE		
	HONGYANG	11/29/07		
	CHECKED BY	DATE	TITLE	
	DAVID STAINHARDT	11/29/07		
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	NON-SCALED			
			MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	PAGE 23/28

NOTE 1.1 PATCH REINFORCEMENT CONSTRUCTION

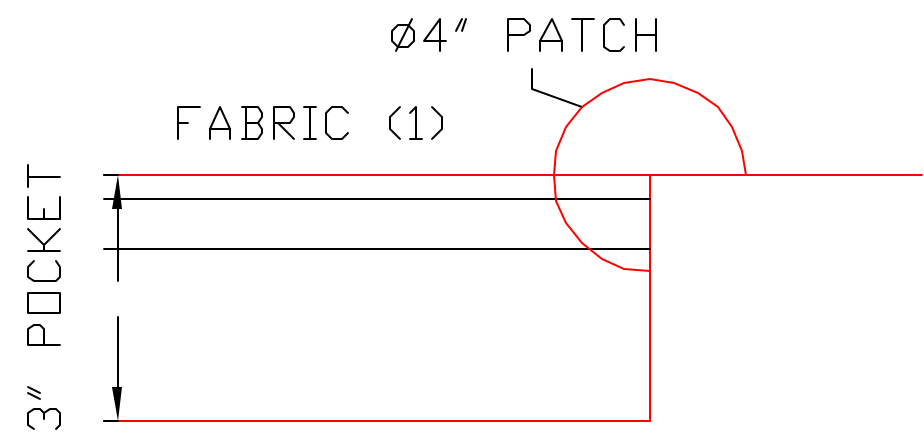
FABRIC (1) PAGE 28



PATCH REINFORCEMENT SHALL BE MADE BY HEAT-SEAL A 4" DIAMETER FABRIC (1), PLACING THE CENTER OF THE FABRIC (1) RIGHT IN THE INSIDE CORNER WHERE THE TWO EDGES OF THE FABRIC (1) MEET.

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	DESIGNED BY	DATE		
	NERI TERAN	11/29/07		
	CHECKED BY	DATE		
	HONGYANG	11/29/07		
	CHECKED BY	DATE	TITLE	
	DAVID STAINHARDT	11/29/07		
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NON-SCALED			MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	PAGE 24/28

NOTE 1.2 PATCH REINFORCEMENT CONSTRUCTION



PATCH REINFORCEMENT SHALL BE MADE BY HEAT-SEAL A 4" DIAMETER FABRIC (1), PLACING THE CENTER OF THE FABRIC (1) RIGHT IN THE INSIDE CORNER WHERE THE TWO EDGES OF THE FABRIC (1) MEET.

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	DESIGNED BY	DATE		
	NERI TERAN	11/29/07		
	CHECKED BY	DATE	TITLE	
	HONGYANG	11/29/07		
	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
	DAVID STAINHARDT	11/29/07		
	CAGE CODE: 00GB3			
	NON-SCALED		MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	PAGE 25/28

STITCH

(ST1) TYPE: ASTM 301-2
LOCKED STITCHED
FIVE STITCHES PER INCH
NEEDLE SET 1"

SEAM

(SE1) TYPE: ASTM SS_s-2
PINCH PLEAT CONSTRUCTION

(SE2) TYPE: ASTM SS_a-2
BINDING CONSTRUCTION

(SE3) TYPE: ASTM SS_a_u-2 AND FOLD ASTM EF_a-2
POCKET CONSTRUCTION

ASTM THE AMERICAN SOCIETY FOR TESTING AND MATERIALS

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	DESIGNED BY	DATE		
	NERI TERAN	11/29/07		
	CHECKED BY	DATE	TITLE	
	HONGYANG	11/29/07		
	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
	DAVID STAINHARDT	11/29/07		
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WEBBING (2.1) PAGE 28
WEBBING (2.2) PAGE 28
STITCH (ST1) PAGE 26
NOTE 2.1 PAGE 16

TACK

IN GENERAL, ALL THE END OF WEBBING (2.1, 2.2) AND BINDING (NOTE 2.1) SHOULD BE TACKED BY STITCHING (ST1) OVER THE EDGE OF THE MATERIALS AND THEN REVERSING 5 STICHES (ST1) AND FORWARDING 4 STICHES (ST1).

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	DESIGNED BY	DATE		
	NERI TERAN	11/29/07		
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	CHECKED BY	DATE	ABT-1-9 AMBIENT BREEZE TUNNEL	
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	NON-SCALED		MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	PAGE 27/28

BILL OF MATERIALS

FABRIC (1)

BASE TYPE FABRIC WEIGHT	7.5 oz./yd2	ASTM D751
FINISHED COATED WEIGHT	28 +2/-1 oz./YD2	ASTM D751
TONGUE TEAR	275/275 lbf	ASTM D751
TRAPEZOID TEAR	85/85 lbf	ASTM D751
GRAB TENSILE	700/700lbf	ASTM D751
STRIP TENSILE	515/515 lbf/in.	ASTM D751 Procedure B
ADHESION (minimum)	10 lbf/in.	ASTM D751 Dielectric Weld
HIDROSTATIC RESISTANCE	500psi	ASTM D751 Procedure A
LOW TEMPERATURE	LTC Pass @ -40°F	ASTM D2136
FLAME RESISTANCE		UL214, NFPA 701, FTMS 191 Method 5903 -2 second flameout ASTME84 - flame spread index < 25, smoke development rating < 450

WEBBING (2)

	1	2	METHOD
TOTAL WIDTH	1.5"	3"	5020
THICKNESS	.04	.04	5030
WEIGHT OZ/YD	1.892	1.892	5040
GROUND WARP COUNT	294	294	5050
BINDER WARP COUNT	70	70	5050
YARN FILLING/WEFT	96	96	5050
BREAKING STRENGTH	4900	4900	4108
NON-FIBROUS MATERIAL	.94	.94	2611
COLORFAST TO DRY CRACKING	4.5	4.5	5651.1
COLORFAST TO WET CRACKING	3.5	3.5	5651.1
CURVATURE	.0781	.0781	4.5.1
FLAME RESISTANSE			NFPA 701 FLAME TEST CHAR LENGTH -1/16", 1/32", 0 FLAME DRIPPINGS -0, 0, 0

O-RING (5)

SIZE OD	1.354"
SIZE ID	1"
WIRE DIA	0.177"
MATERIAL	WELDED STEEL
FINISH	NICHEL
WEIGHT/100	2.8 LBS

GROMMETS (3)

#2 ROLLED RIM	
EYELET	
FLANGE OD	22.4 mm
BARREL LENGHT	6.1 mm
BARREL OD	12.2 mm
ID WHEN SET	11.4 mm
WASHER	
OD	22.2 mm
ID	12.9 mm
OVERALL HEIGHT	4.6 mm

THREAD (4)

A HIGH TENACITY PLIED AND TWISTED BONDED FILAMENT POLYESTER SEWING THERAD	
PLY 3	
TICKET SIZE	DB 207
TEX SIZE	210
SIZE	2644 STEX
WITH LUBE	2380 DENIER
STRENGTH	31.9 LBS
(AVERAGE)	14.470 GRAMS
ELONGATION	15%

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	DESIGNED BY	DATE	TITLE ABT-1-9 AMBIENT BREEZE TUNNEL	
	NERI TERAN	11/29/07		
	CHECKED BY	DATE		
	HONGYANG	11/29/07		
	CHECKED BY	DATE	MATERIAL SPECIFICATION SEE NOTE BILL OF MATERIALS	
	DAVID STAINHARDT	11/29/07		
	CAGE CODE: 00GB3		PAGE 28/28	
	NON-SCALED			