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CONSULTING MECHANICAL/ELECTRICAL ENGINEERS 896 TABOR STREET • LAKEWOOD, COLORADO 80401 (303) 232-6200 • FAX (303) 233-3701

Construction Shop Drawings T	ransmittal E	Date October 19,	2012				
To: Davis Partnership Arc	hitects						
Electronic Submittal							
Attn: Brent Murphy							
Project: EPMC - MRI CT A	ddition						
Cator, Ruma & Assoc. Project	No.:	2011-233					
Cator, Ruma & Assoc. Tracking	g No:	12.2442					
NOTE: The Engineer's review of these Any deviation from specified equipmen secure written acceptance for said dev	t or material n						
			No	Make		Revise	Submit
Item & Section Number	Copies	Manufacturer	Exception	Corrections	Rejected	And	Specified
	Î		Taken	Noted		Resubmit	Item
<u>233600</u>							
Air Terminals	1	Krueger	Х				
Remarks: No Exception Ta	ken to sub	mitted items.		1			
Temano.							
* We have retained one copy o	f each of th	e above items for our re	ecords.				
				CATOR, RUI	MA & A SSO	CIATES, CO.	
				Bob Lazza	aro		

P:\2011\2011-233 Estes Park Med Center MRI-CT\Sup\Docs\Submittals\2011-233 SEC 233600 TRK 12.2442 (RDL) 10.19.12.doc

Cator, Ruma & Associates, Co. Disclosure: Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions that shall be confirmed and correlated at the job sites; fabrication process and techniques of construction; coordination of their work with that of all other trades, and the satisfactory performance of their work.





Davis Partnership Architects | 2301 Blake St. STE 100 Denver, CO 80208-2108 US

Submittal Transmittal

Transmittal ID: 00092

Date Sent: 10/16/2012

Project: EPMC - MRI CT Addition

Number: 12910.00.000 To: Kelvin Doss

Cator, Ruma & Associates

896 Tabor St.

Lakewood, CO 80401 303.232.6200 (Phone) 303.233.3701 (Fax)

Submittal Management Cator Ruma & Associates

896 Tabor Street

Lakewood, CO 80401-4700 303-232-6200 (Phone)

BRENT MURPHY From:

Davis Partnership Architects

2301 Blake St. **STE 100**

Denver, CO 80208-2108

303-861-8555x2592 (Phone)

303-861-3027 (Fax)

Subject: 233600-01 - Air Terminals

Sent Via: Info Exchange

Submittal ID:

Return By: 10/23/2012

Specification Section:

For Review **Purpose:** Remarks: Brent,

For your review and approval.

Rebecca

CC:

Contents

Quantity: Dated: 10/16/2012 Number:

Description:

EPMC Air terminals 233600 2.2.pdf

Action: Remarks:

See Consultant Review Action

This submittal has been reviewed by Davis Partnership, P.C., where applicable, for conformance to architectural requirements, and has been reviewed by consultant(s) to Davis Partnership, P.C. for conformance with the design concept of the Project and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions to be confirmed and correlated at the job site; for information that pertains solely to the fabrication processes or to techniques of construction; and for coordination of the work of all trades. Refer to comments noted on the Consultant(s) review stamp(s) for further action.

DAVIS PARTNERSHIP, P.C., ARCHITECTS

Date 10/22/2012 BJM

> RECEIVED Cator, Ruma Assoc. 10/17/12 Tracking # 12.2442 CRA Project # 2011-233



5995 Greenwood Plaza Blvd. Suite 100 Greenwood Village, CO 80111-4710 303-571-5377 303-629-7467 (fax) **TRANSMITTAL**No. 12D1137-0061

DATE: 10/16/2012

RE: Air terminals

PROJECT: EPMC-Imaging Addition MRI and CT

To: Davis Partnership PC Arch 2301 Blake St #100 Denver CO 80205-2108

ATTN: Brent Murphy

Ph/Fax: 303-861-8555 JOB: 12D1137

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
Shop Drawings	Approval	Approved as Submitted
Letter	Your Use	Approved as Noted
Prints	As Requested	Returned After Loan
Change Order	Review and Comment	Resubmit
Plans		Submit
Samples	SENT VIA:	Returned
Specifications / Product Data	Attached	Returned for Corrections
Other:	Separate Cover Via:	✓ Due Date: 10/16/2012

NOTES:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal	15110	233600.01	1	1	10/16/2012	Air terminals	New Item

CC:

Signed:	
	Rebecca Terrazas



Submittal Stamp Sheet

Project: EPMC
Phipps' Job #: 12D1137
Submittal #: 233600 Date: 10-16-12

GH Phipps.:	Architect:
SUBMITTED GH Phipps Construction Companies GH Phipps has reviewed, approved, and herby submits the attached in accordance with the contract documents. Note to Subcontractor/Material Supplier: Subcontractor/Material Supplier remains responsible for the confirmation and correlation of dimensions at the jobsite; fabrication processes and construction techniques; coordination of the work with the work of other trades; and satisfactory performance of the work.	
Engineer:	Other:
No Exception Taken Rejected Revise and Resubmit CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR: DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES; AND THE SAFISFACTORY PERFORMANCE OF HIS WORK. CATOR, RUMA & ASSOCIATES, CO. Consulting Mechanical/Electrical Engineers Lakewood, Colorado 80401 (303) 232-6200 Date: 10/19/12 By: Bob Lazzaro REVIEW DOES NOT INCLUDE SIZES OR QUANTITIES	

NOTES: HVAC Air Terminal

Signed:	Rebecca T Terrazas
	GH Phipps Representative



2669 E. Hwy 224 Denver, CO 80229 303-288-4546 FAX: 303-289-5756

SUBMITTAL

DATE: August 21, 2012

SPECIFICATION:

PARAGRAPH:

JOB NO: 12-100 Estes Park Medical Center MRI / CT PROJECT: Addition **GH Phipps GENERAL CONTRACTOR: Davis Partnership Architects** ARCHITECT: Cator Ruma & Associates **MECH. ENGINEER:** Parker Sheet Metal **SUPPLIER: SUBMITTAL NO:** 03

2.2

233600 - Air Terminal Units



BUILDING ENVIRONMENTS

Technology for Better Buildings

EQUIPMENT SUBMITTAL

PROJECT	Estes Park Medical Center MRI/CT Addition
ARCHITECT	
ENGINEER	Cator Ruma & Associates, Inc.
CONTRACTOR	Parker Sheet Metal
ITEM	VAV's
MANUFACTURER	Krueger
SUBMITTED BY	LONG Building Environments – Jonathan Bliss

Equipment will not be released for production until formal approval is received.

DATE: August 13, 2012

Tag: *Priced at 5,280 Feet with 30% Glycol

VAV-2-1

VAV-2-2

VAV-2-3

VAV-2-4

VAV-2-5

						Si	ngle L	Duct 7	ermir	al Unit	Sched	dule								
		,	Size	С	FM	Sta	tic Press	sure	NC I	_evels				Ho	t Water I	leat Coi	il			
Tag	Model	Unit	Outlet	Max	Min	Inlet	Down	Min	Rad.	Disch.	CFM	MBH	EAT	LAT	APd	GPM	EWT	LWT	WPd	Rows
VAV-2-01	LMHS	09	14x12	1,050	300	1.00	0.25	0.29	20	14	300	10.9	55	96	0.20	0.8	180.0	149.1	0.10	1
VAV-2-02	LMHS	08	12x10	800	150	1.00	0.25	0.33	21	15	150	6.8	55	106	0.24	0.5	180.0	149.1	0.20	1
VAV-2-03	LMHS	08	12x10	800	150	1.00	0.25	0.33	21	15	150	6.8	55	106	0.24	0.5	180.0	149.1	0.20	1
VAV-2-04	LMHS	14	20x17	3,000	660	1.00	0.25	0.51	22	20	660	20.3	55	90	0.37	1.0	180.0	133.8	0.10	1
VAV-2-05	LMHS	12	16x15	2,000	500	1.00	0.25	0.46	22	16	500	16.9	55	93	0.36	1.2	180.0	147.9	0.40	1

- Notes: 1. Room NC level shown includes attenuation transfer functions obtained from tables in AHRI Standard 885.
 - 2. Sound data shall be obtained from tests conducted in accordance with AHRI Standard 880.
 - 3. Selections based upon Krueger as Manufacturer.
 - 4. Dimensions are for base product only. Check submittal drawings for exact dimensions.
 - 5. Size units are given in inches, flows units are cubic feet per minute, pressure units are inches of water, and temperature units are degrees fahrenheit.

Printed: 8/13/2012 : 11:17:35AM Page 1

Project Location:

Altitude: 5,280.0 Feet

File: Estes Park Medical Center MRI-CT.kec

User: Room:

Selection

Ī			9	Size		CFM			Static		Max NC Levels		
	Quantity	Model	Unit	Outlet	Max.	Min.	Heating	Inlet	Down	Min.	Rad.	Disch.	
	1	LMHS	12	16x15	2,000	500	500	1.00	0.25	0.46	22	16	

Notes: 1. See below for PWL calculations used to obtain Max NC rating.

2. Outlet size is approximate and does not include coil dimensions. See submittal drawings for exact dimensions.

Hot Water Heating Coil Performance

MBH	Coil CFM	EAT / LAT	APd	GPM	EWT /LWT	WPd	Rows	Conn.	% Glycol
16.9	500	55 / 93	0.4	1.20	180.0 / 147.9	0.40	1	RH	30%

Coil Selection Method: 6-Solve for heat at desired water flow, rows (Straight Calculation)

Other Information

Maximum CFM:	2,263			
Design CFM:	2,000			
Safety Factor:	12%			
Unit LxWxH:	40 x	16 ×	15in.	

Accessories

Outlet: Attenuator

Lining: 1-1" liner

Heating Coil: Hot Water

Attenuator: Yes

Acoustic Summary

		Radia	ited S	ound	PWL				Discha	arge S	Sounc	PWI	_		Standard
Sound Description	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	
Primary Sound	60	53	47	42	38	30		66	59	54	44	43	42		
Total Attenuation	18	19	20	26	31	36		29	30	41	51	52	39		885-08,E
Room Sound Level	42	34	27	16	-	-	22	37	29	13	-	-	-	16	

Notes: 1. Room sound levels shown include attenuation transfer functions shown above.

- 2. Data were obtained from tests conducted in accordance with AHRI Standard 880.
- 3. Sound power levels are in decibels, re 10^-12 watts.
- 4. Dash (-) in space indicates sound and NC value is less than 10.

Printed: 8/13/201: 11:20:03AM

Project Location:

Altitude: 5,280.0 Feet

File: Estes Park Medical Center MRI-CT.kec

User: Room:

Selection

		9	Size		CFM			Static		Max NC	Levels
Quantity	Model	Unit	Outlet	Max.	Min.	Heating	Inlet	Down	Min.	Rad.	Disch.
1	LMHS	14	20x17.5	3,000	660	660	1.00	0.25	0.51	22	20

Notes: 1. See below for PWL calculations used to obtain Max NC rating.

2. Outlet size is approximate and does not include coil dimensions. See submittal drawings for exact dimensions.

Hot Water Heating Coil Performance

MBH	Coil CFM	EAT / LAT	APd	GPM	EWT /LWT	WPd	Rows	Conn.	% Glycol
20.3	660	55 / 90	0.4	1.00	180.0 / 133.8	0.10	1	RH	30%

Coil Selection Method: 6-Solve for heat at desired water flow, rows (Straight Calculation)

Other Information

Maximum CFM:	3,081			
Design CFM:	3,000			
Safety Factor:	3%			
Unit LxWxH:	40 x	20 x	18in.	
Controls:				

Accessories

Outlet: Attenuator

Lining: 1-1" liner

Heating Coil: Hot Water

Attenuator: Yes

Acoustic Summary

		Radia	ted S	ound	PWL				Discha	arge S	Sound	PWI	_,		Standard
Sound Description	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	
Primary Sound	58	52	48	43	40	33		69	62	59	49	46	45		
Total Attenuation	18	19	20	26	31	36		29	30	41	51	52	39		885-08,E
Room Sound Level	40	33	28	17	-	-	22	40	32	18	-	-	-	20	

Notes: 1. Room sound levels shown include attenuation transfer functions shown above.

- 2. Data were obtained from tests conducted in accordance with AHRI Standard 880.
- 3. Sound power levels are in decibels, re 10^-12 watts.
- 4. Dash (-) in space indicates sound and NC value is less than 10.

Printed: 8/13/201: 11:19:48AM

Project Location:

Altitude: 5,280.0 Feet

File: Estes Park Medical Center MRI-CT.kec

User: Room:

Selection

			S	Size		CFM			Static		Max NC	Levels
(Quantity	Model	Unit	Outlet	Max.	Min.	Heating	Inlet	Down	Min.	Rad.	Disch.
	1	LMHS	08	12x10	800	150	150	1.00	0.25	0.33	21	15

Notes: 1. See below for PWL calculations used to obtain Max NC rating.

2. Outlet size is approximate and does not include coil dimensions. See submittal drawings for exact dimensions.

Hot Water Heating Coil Performance

MBH	Coil CFM	EAT / LAT	APd	GPM	EWT /LWT	WPd	Rows	Conn.	% Glycol
6.8	150	55 / 106	0.2	0.50	180.0 / 149.1	0.20	1	RH	30%

Coil Selection Method: 6-Solve for heat at desired water flow, rows (Straight Calculation)

Other Information

Maximum CFM:	1,006		
Design CFM:	800		
Safety Factor:	20%		
Unit LxWxH:	40 x	12 x	10in.
Controls:			

Accessories

Outlet: Attenuator

Lining: 1-1" liner

Heating Coil: Hot Water

Attenuator: Yes

Acoustic Summary

		Radia	ited S	Sound	PWL	_			Discha	arge S	Sounc	I PWI	_		Standard
Sound Description	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	
Primary Sound	59	52	41	37	31	29		62	59	47	38	33	32		
Total Attenuation	18	19	20	26	31	36		29	30	41	51	52	39		885-08,E
Room Sound Level	41	33	21	11	-	-	21	33	29	-	-	-	-	15	

Notes: 1. Room sound levels shown include attenuation transfer functions shown above.

- 2. Data were obtained from tests conducted in accordance with AHRI Standard 880.
- 3. Sound power levels are in decibels, re 10^-12 watts.
- 4. Dash (-) in space indicates sound and NC value is less than 10.

Printed: 8/13/201: 11:19:34AM

Project Location:

Altitude: 5,280.0 Feet

File: Estes Park Medical Center MRI-CT.kec

User: Room:

Selection

		9	Size		CFM			Static		Max NC	Levels
Quantity	Model	Unit	Outlet	Max.	Min.	Heating	Inlet	Down	Min.	Rad.	Disch.
1	LMHS	80	12x10	800	150	150	1.00	0.25	0.33	21	15

Notes: 1. See below for PWL calculations used to obtain Max NC rating.

2. Outlet size is approximate and does not include coil dimensions. See submittal drawings for exact dimensions.

Hot Water Heating Coil Performance

MBH	Coil CFM	EAT / LAT	APd	GPM	EWT /LWT	WPd	Rows	Conn.	% Glycol
6.8	150	55 / 106	0.2	0.50	180.0 / 149.1	0.20	1	RH	30%

Coil Selection Method: 6-Solve for heat at desired water flow, rows (Straight Calculation)

Other Information

Maximum CFM:	1,006		
Design CFM:	800		
Safety Factor:	20%		
Unit LxWxH:	40 x	12 x	10in.

Accessories

Outlet: Attenuator

Lining: 1-1" liner

Heating Coil: Hot Water

Attenuator: Yes

Acoustic Summary

	Radiated Sound PWL				Discharge Sound PWL					Standard					
Sound Description	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	
Primary Sound	59	52	41	37	31	29		62	59	47	38	33	32		
Total Attenuation	18	19	20	26	31	36		29	30	41	51	52	39		885-08,E
Room Sound Level	41	33	21	11	-	-	21	33	29	-	-	-	-	15	

Notes: 1. Room sound levels shown include attenuation transfer functions shown above.

- 2. Data were obtained from tests conducted in accordance with AHRI Standard 880.
- 3. Sound power levels are in decibels, re 10^-12 watts.
- 4. Dash (-) in space indicates sound and NC value is less than 10.

Printed: 8/13/201: 11:19:10AM

Project Location:

Altitude: 5,280.0 Feet

File: Estes Park Medical Center MRI-CT.kec

User: Room:

Selection

Ī			9	Size		CFM			Static		Max NC Levels		
	Quantity	Model	Unit	Outlet	Max.	Min.	Heating	Inlet	Down	Min.	Rad.	Disch.	
	1	LMHS	09	14x12.5	1,050	300	300	1.00	0.25	0.29	20	14	

Notes: 1. See below for PWL calculations used to obtain Max NC rating.

2. Outlet size is approximate and does not include coil dimensions. See submittal drawings for exact dimensions.

Hot Water Heating Coil Performance

MBH	Coil CFM	EAT / LAT	APd	GPM	EWT /LWT	WPd	Rows	Conn.	% Glycol
10.9	300	55 / 96	0.2	0.80	180.0 / 149.1	0.10	1	RH	30%

Coil Selection Method: 6-Solve for heat at desired water flow, rows (Straight Calculation)

Other Information

Maximum CFM:	1,273		
Design CFM:	1,050		
Safety Factor:	18%		
Unit LxWxH:	40 x	14 x	13in.

Accessories

Outlet: Attenuator

Lining: 1-1" liner

Heating Coil: Hot Water

Attenuator: Yes

Acoustic Summary

	Radiated Sound PWL				Discharge Sound PWL					Standard					
Sound Description	2	3	4	5	6	7	NC	2	3	4	5	6	7	NC	
Primary Sound	56	49	46	38	34	26		62	58	50	40	36	36		
Total Attenuation	18	19	20	26	31	36		29	30	41	51	52	39		885-08,E
Room Sound Level	38	30	26	12	-	-	20	33	28	-	-	-	-	14	

Notes: 1. Room sound levels shown include attenuation transfer functions shown above.

- 2. Data were obtained from tests conducted in accordance with AHRI Standard 880.
- 3. Sound power levels are in decibels, re 10^-12 watts.
- 4. Dash (-) in space indicates sound and NC value is less than 10.

Printed: 8/13/201: 11:18:27AM

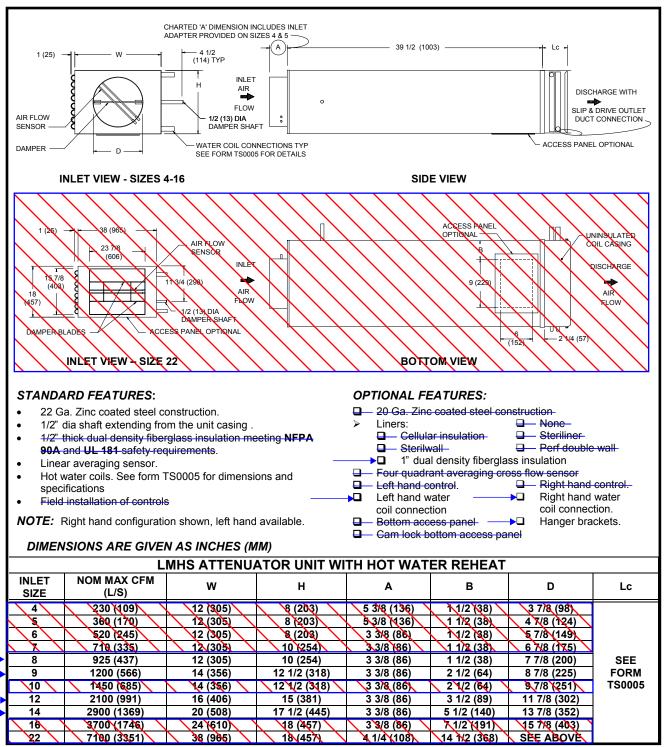
SUBMITTAL SHEET

Form Number TS0021.2	Effective Date 7/04
 Repla	aces FORM TS0021.1
 \square KRII	EGER
	LULI
 Evcellence in	Air Distribution

JOB NAME ARCHITECT ENGINEER CONTRACTOR LOCATION

LMHS

ATTENUATOR UNIT WITH HOT WATER HEAT – NO CONTROLS



JOB NAME	
ARCHITECT	
ENGINEER	
CONTRACTOR	
LOCATION	

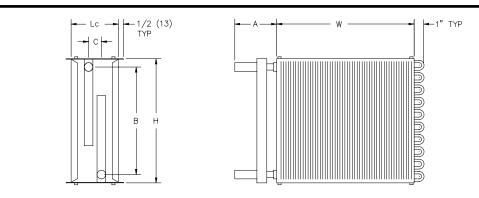
SUBMITTAL SHEET

Form Number TS0005.5 Effective Date 11/03 Replaces FORM TS0005.4



LMHS HOT WATER COILS

With Hot Water Reheat



LMHS coils are shipped from the factory attached to the unit discharge. Coil discharge is configured for slip and drive field ductwork installation. Coil section is uninsulated.

CONNECTION TUBING – 0.032" thick copper. Refer to connection diameter shown in table below.

COIL CASING - 20 Ga. Galvanized steel.

COIL TUBING -1/2 diameter x 0.016 thick copper.

COIL FINS – 0.0045" thick aluminum, 10 per inch, mechanically bonded to tubing.

COIL ACCESSORIES:

Optional air vent and water drain

	LMHS SIZE		Н	W	Lc	Α	В	С	WATER CONNECTION
		1 ROW 2 ROW	8(203) 8(203)	12(304) 12(304)	5(127) 5(127)	3(76) 4 1/4(108)	6 1/4(159) 6 7/8(175)	1/8(29)	1)2(13) 7/8(22)
	4,5,6	3 ROW 4 ROW	8(203) 8(203)	12(304) 12(304)	7 1/4(184)	4 1/4(108) 4 1/4(108)	6 7/8(175) 6 7/8(175)	2 1/8(54) 3 1/4(83)	7/8(22) 7/8(22)
_	\rightarrow	1 ROW	10(254)	12(304)	5(127)	3(76)	8 3/4(222)	-	1/2(13)
	7,8	2 ROW	10(254)	12(304)	5(127)	4 1(4(108)	9(229)	1 1/8(29)	7/8(22)
	+,0	3 RQW	10(254)	12(304)	7 1(4(184)	4 1/4(108)	9(229)	2 1/8(54)	7/8(22)
		4 ROW	10(254)	12(304)	7 1/4(184)	4 1/4(108)	9(229)	3 1(4(83)	7(8(22)
	-	1 ROW	12 1/2(317)	14(356)	5(127)	4 1/4(108)	10 7/8(276)	1 1/4(32)	7/8(22)
	<mark>9,10</mark>	2 ROW	12 1/2(317)	14(356)	5(127)	4 1/4(108)	11 1/2(292)	1 1/8(29)	7/8(22)
	U , 10	3 ROW	12 1/2(317)	(4(356)	7 1/4(184)	4 1/4(108)	10 1/4(260)	2 1/8(54)	7/8(22)
		4 ROW	12 1/2(317)	14(356)	7 1/4(184)	4 1/4(108)	10 1(4(260)	3 1/4(83)	7/8(22)
_		1 ROW	15(381)	16(406)	5(127)	4 1/4(108)	13 3/4(349)	1 1/4(32)	7/8(22)
	12	2 ROW	15(381)	16(406)	5(127)	4 1/4(108)	13 3/4(349)	1 1/8(29)	7/8(22)
		3 ROW	15(381)	16(406)	7 1/4(184)	4 1/4(108)	14(356)	2 5/8(67)	7/8(22)
		4 RQW	15(381)	16(406)	7 1/4(184)	4 1/4(108)	14(356)	3 1/4(83)	7/8(22)
_	-	1 ROW	17 1/2(445)	20(508)	7 1/2(191)	4 1/4(108)	15 7/8(403)	1 1/4(32)	7/8(22)
	14	2 RQW	17 1/2(445)	20(508)	7 1(2(191)	4 1/4(108)	(6 1/2(419)	1 1/8(29)	7/8(22)
		3 ROW	17 1/2(445)	20(508)	9 3/4(248)	4 1(4(108)	14(356)	2 1/8(54)	7/8(22)
ı	,	4 RQW	17 1/2(445)	20(508)	9 3(4(248)	4 1/4(108)	14(356)	3 1/4(83)	7/8(22)
	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	1 ROW	18(457)	24(609)	7 1/2(191)	4 1/4(108)	15 7/8(403)	1 1(4(32)	7(8(22)
	16	2 ROW	18(457)	24(609)	7 1/2(191)	4 1/4(108)	16 1/2(419)	1 1/8(29)	7/8(22)
	/ // /	3 ROW	18(457)	24(609)	9 3/4(248)	4 1/4(108)	14(356)	2 1/8(54)	7/8(22)
		4 ROW	18(457)	24(609)	9 3/4(248)	4 1/4(108)	14(356)	3 1/4(83)	7/8(22)
	/ / /	1 ROW	18(457)	38(965)	5(12 1 7)	3 5/8(92)	15 7(8(403)	1 5/16(33)	7/8(22)
	22	2 ROW	18(457)	38(965)	5(127)	3 5/8 (92)	16 1/2(419)	1 3/32(27)	7/8(22)
	/ / /	3 ROW	18(457)	38(965)	7 1/4(184)	3 5/8(92)	14(356)	2 5/32(54)	7/8(22)
		4 ROW	18(457)	38(965)	7 1/4(184)	3 5/8(92)	14(356)	3 1/4(82)	7/8(22)