

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction **Project Number:** 14-1188.3
 Materials Testing and Speical Inspections Services

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/7/2016 **Time Cast:** 1:50 **Date Received:**

Placement Location: FOOTING: B WING UNIT 105 TO UNIT 112 N SIDE

Placement Method: TAILGATE

Placement Vol. (yd³): 40

Cylinders Made By: CHARLES CROMWELL

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

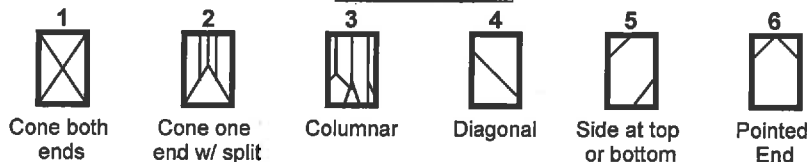
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR:	6	Load Number:	1	Batch
Air Content (%) (C-231)	Air WR:	7	Mixer Number:	148	12:50
Air Temp (°F):	70		Ticket Number	275373	Arrive
Conc. Temp (°F) (C-1064):	79		Cubic Yards:	10	1:30
			Design (psi):	3000	Depart
					1:50

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-1A	8.25	4.01	12.66	10/14/2016	Lab	7	5	39.2	3100
855-1B	8.25	4.02	12.66	11/4/2016	Lab	28	3	50.8	4010
855-1C	8.25	4.02	12.70	11/4/2016	Lab	28	5	51.6	4060
855-1D	8.25			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/12/2016 **Time Cast:** 1:20

Date Received:

Placement Location: SECTION B FOOTING + WALL

Placement Method: TAILGATE

Placement Vol. (yd³): 80

Cylinders Made By: NATHANIEL MCARTHUR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

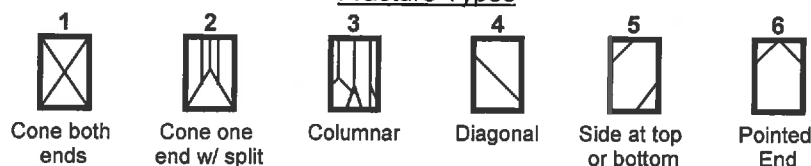
Admixtures: AIR MRWR

TEST RESULTS

Slump (in) (C-143):	Slump WR: 5.5	Load Number: 4	Batch
Air Content (%) (C-231)	Air WR: 6.0	Mixer Number: 150	11:51
Air Temp (°F): 55		Ticket Number 28209	Arrive
Conc. Temp (°F) (C-1064): 71		Cubic Yards: 10	12:30
		Design (psi): 3000	Depart
			2:00

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(in) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-2A	8.35	4.01	12.63	10/19/2016	Lab	7	4	44.4	3520
855-2B	8.30	4.01	12.65	11/9/2016	Lab	28	4	60.4	4780
855-2C	8.30	4.01	12.64	11/9/2016	Lab	28	5	57.0	4510
855-2D	8.30			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
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Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/12/2016 **Time Cast:** 2:10

Date Received:

Placement Location: SECTION B FOOTING + WALL

Placement Method: TAILGATE

Placement Vol. (yd³): 80

Cylinders Made By: NATHANIEL MCARTHUR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

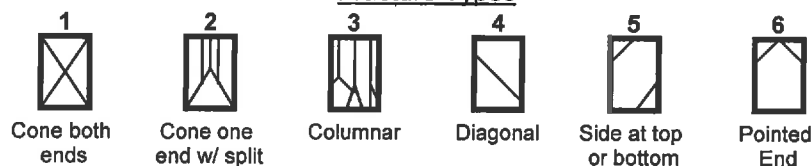
Admixtures: AIR MRWR

TEST RESULTS

Slump (in) (C-143):	Slump WR: 5.25	Load Number: 7	Batch
Air Content (%) (C-231)	Air WR: 5.4	Mixer Number: 142	1:06
Air Temp (°F): 55		Ticket Number 208218	Arrive
Conc. Temp (°F) (C-1064): 69		Cubic Yards: 10	1:45
		Design (psi): 3000	Depart
			2:50

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-3A	8.40	4.01	12.63	10/19/2016	Lab	7	4	47.6	3770
855-3B	8.40	4.01	12.62	11/9/2016	Lab	28	4	62.4	4950
855-3C	8.45	4.01	12.61	11/9/2016	Lab	28	5	59.8	4740
855-3D	8.40			Hold	Lab				

Fracture Types



Remarks:

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ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
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Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/13/2016 **Time Cast:** 2:00 **Date Received:**

Placement Location: FOUNDATION FOOTINGS FROM ROOM 115 TO 118 (EXTERIORS)
 WALLS: FROM ROOM 108 TO 112

Placement Method: TRUCK CHUTE **Placement Vol. (yd³):**

Cylinders Made By: NEIL DAVIS **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

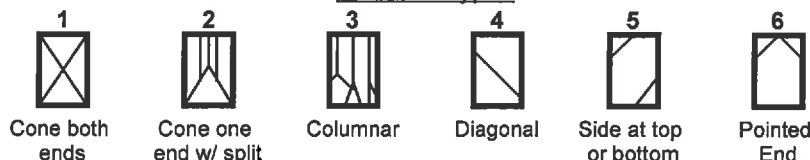
Admixtures: MASTER GLENIUM (MRWR)
 MASTER AIR

TEST RESULTS

Slump (in) (C-143):	Slump WR: 4.5	Load Number: 2	Batch
Air Content (%) (C-231)	Air WR: 6.2	Mixer Number: 156	12:54
Air Temp (°F): 66		Ticket Number 275964	Arrive
Conc. Temp (°F) (C-1064): 70		Cubic Yards: 5	1:35
		Design (psi): 3000	Depart
			2:10

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-4A	8.40	4.01	12.63	10/20/2016	Lab	7	5	48.8	3870
855-4B	8.40	4.00	12.56	11/10/2016	Lab	28	4	59.6	4750
855-4C	8.40	4.00	12.58	11/10/2016	Lab	28	4	60.0	4770
855-4D	8.40			Hold	Lab				

Fracture Types



Remarks:

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ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction **Project Number:** 14-1188.3
 Materials Testing and Speical Inspections Services

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/17/2016 **Time Cast:** 11:35 **Date Received:** 10/20/2016

Placement Location: FOOTINGS: GARAGE #1 FOOTING, A19 TO FOYER 150 S
 WALLS: C2 105 TO B5 104

Placement Method: PUMP/TAILGATE

Placement Vol. (yd³): 90

Cylinders Made By: CHARLES CROMWELL

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

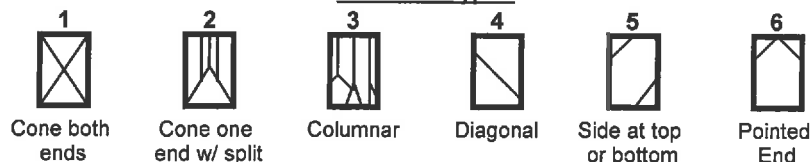
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR:	5.5	Load Number:	1	Batch
Air Content (%) (C-231)	Air WR:	5.8	Mixer Number:	143	10:29
Air Temp (°F):	60		Ticket Number	273667	Arrive
Conc. Temp (°F) (C-1064):	73		Cubic Yards:	10	11:06
			Design (psi):	3000	Depart
					11:24

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-5A	8.45	4.01	12.63	10/24/2016	Lab	7	5	43.4	3440
855-5B	8.45	4.01	12.61	11/14/2016	Lab	28	5	56.0	4440
855-5C	8.50	4.01	12.66	11/14/2016	Lab	28	5	50.8	4010
855-5D	8.45			Hold	Lab				

Fracture Types



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Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:
General Contractor:
Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/17/2016 **Time Cast:** 3:35 **Date Received:** 10/20/2016

Placement Location: FOOTINGS: GARAGE #1 FOOTING, A19 TO FOYER 150 S
 WALLS: C2 105 TO B5 104

Placement Method: PUMP/TAILGATE

Placement Vol. (yd³): 90

Cylinders Made By: CHARLES CROMWELL

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

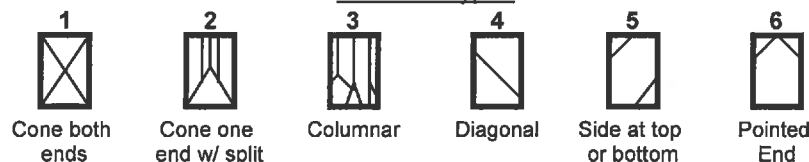
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR:	6.0	Load Number:	7	Batch
Air Content (%) (C-231)	Air WR:	6.0	Mixer Number:	99	2:23
Air Temp (°F):	70		Ticket Number	273673	Arrive
Conc. Temp (°F) (C-1064):	75		Cubic Yards:	10	3:00
			Design (psi):	3000	Depart
					4:00

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-6A	8.45	4.01	12.65	10/24/2016	Lab	7	5	44.8	3540
855-6B	8.45	4.01	12.65	11/14/2016	Lab	28	4	58.6	4630
855-6C	8.45	4.01	12.62	11/14/2016	Lab	28	5	55.4	4390
855-6D	8.45			Hold	Lab				

Fracture Types



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Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/18/2016 **Time Cast:** 1:28 **Date Received:**

Placement Location: FOOTING: ROOM A2 TO ROOM C2, NW, ACTIVITY ROOM 158

Placement Method: TRUCK CHUTE

Placement Vol. (yd³): 21.5

Cylinders Made By: JOSHUA MOORE

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

Admixtures: AE
MRWR

TEST RESULTS

Slump (in) (C-143): **Slump WR:** 15.5

Load Number: 2 **Batch**
12:28

Air Content (%) (C-231) **Air WR:** 6.4

Mixer Number: 118

Air Temp (°F):

Ticket Number 401633 **Arrive**
1:12

Conc. Temp (°F) (C-1064): 67

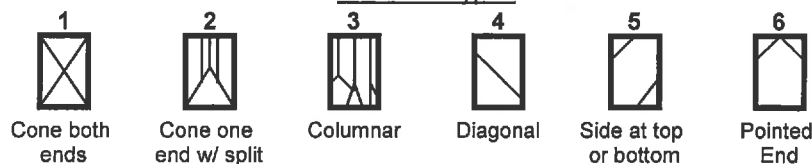
Cubic Yards: 10.75

Depart

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-7A	8.00	4.01	12.62	10/25/2016	Lab	7	6	41.4	3280
855-7B	8.10	4.01	12.61	11/15/2016	Lab	28	5	51.0	4040
855-7C	8.10	4.01	12.63	11/15/2016	Lab	28	5	50.0	3960
855-7D	8.10			12/13/2016	Lab	56			

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction **Project Number:** 14-1188.3
 Materials Testing and Speical Inspections Services

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/20/2016 **Time Cast:** 1:10 **Date Received:**
Placement Location: PUMP HOUSE FOOTINGS & FOOTINGS FROM ROOM A17 W TO 156
 WALLS: FROM CO4 TO B1
Placement Method: TAILGATE **Placement Vol. (yd³):** 52
Cylinders Made By: CHARLES CROMWELL **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

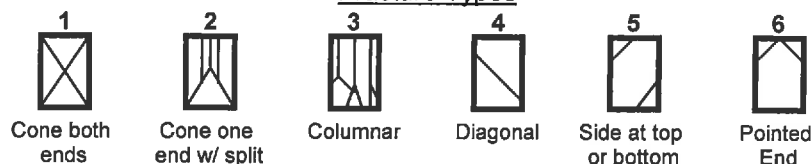
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR: 4	Load Number: 1	Batch
Air Content (%) (C-231)	Air WR: 6.4	Mixer Number: 118	11:46
Air Temp (°F): 55		Ticket Number 273590	Arrive
Conc. Temp (°F) (C-1064): 70		Cubic Yards: 10	12:24
		Design (psi): 3000	Depart
			1:50

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-8A	8.45	4.01	12.60	10/27/2016	Lab	7	5	44.2	3510
855-8B	8.45	4.01	12.62	11/17/2016	Lab	28	5	55.4	4390
855-8C	8.45	4.02	12.68	11/17/2016	Lab	28	4	62.8	4950
855-8D	8.45			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction Materials Testing and Speical Inspections Services
Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/20/2016 **Time Cast:** 2:40 **Date Received:**
Placement Location: PUMP HOUSE FOOTINGS & FOOTINGS FROM ROOM A17 W TO 156 WALLS: FROM CO4 TO B1
Placement Method: TAILGATE **Placement Vol. (yd³):** 52
Cylinders Made By: CHARLES CROMWELL **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

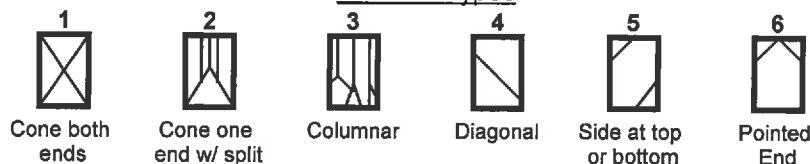
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR: 5	Load Number: 3	Batch: 1:24
Air Content (%) (C-231)	Air WR: 5.5	Mixer Number: 96	Arrive: 1:57
Air Temp (°F): 55		Ticket Number: 273597	Depart: 2:45
Conc. Temp (°F) (C-1064): 70		Cubic Yards: 10	
		Design (psi): 3000	

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-9A	8.35	4.01	12.65	10/27/2016	Lab	7	5	49.2	3890
855-9B	8.35	4.01	12.64	11/17/2016	Lab	28	5	57.0	4510
855-9C	8.35	4.01	12.61	11/17/2016	Lab	28	6	55.8	4420
855-9D	8.35			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction **Project Number:** 14-1188.3
 Materials Testing and Speical Inspections Services

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/20/2016 **Time Cast:** 4:10 **Date Received:**
Placement Location: PUMP HOUSE FOOTINGS & FOOTINGS FROM ROOM A17 W TO 156
 WALLS: FROM CO4 TO B1
Placement Method: TAILGATE **Placement Vol. (yd³):** 52
Cylinders Made By: CHARLES CROMWELL **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

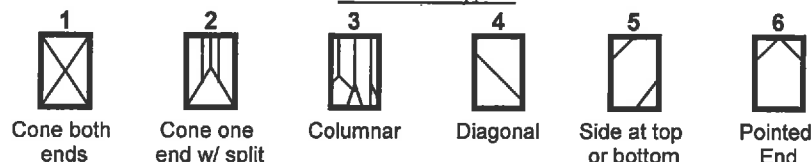
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR: 5.5	Load Number: 5	Batch
Air Content (%) (C-231)	Air WR: 6.0	Mixer Number: 164	3:06
Air Temp (°F): 50		Ticket Number 276660	Arrive
Conc. Temp (°F) (C-1064): 68		Cubic Yards: 6	3:41
		Design (psi): 3000	Depart
			4:31

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-10A	8.45	4.01	12.65	10/27/2016	Lab	7	4	51.6	4080
855-10B	8.45	3.99	12.50	11/17/2016	Lab	28	4	60.8	4860
855-10C	8.45	4.01	12.66	11/17/2016	Lab	28	5	57.8	4570
855-10D	8.45			Hold	Lab				

Fracture Types



Remarks:

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 Materials Testing and Speical Inspections Services

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/26/2016 **Time Cast:** 12:58 **Date Received:**

Placement Location: WALL: B WING ROOMS A6/103 TO B5/104, B WING FROM ROOMS B1/117 T O B10/119
 FOOTING: ACTIVITY 158 TO A1/123

Placement Method: TAILGATE **Placement Vol. (yd³):** 40

Cylinders Made By: CHARLES CROMWELL **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

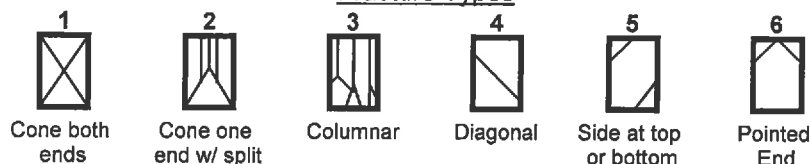
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR: 6	Load Number: 1	Batch
Air Content (%) (C-231)	Air WR: 7.2	Mixer Number: 156	11:04
Air Temp (°F): 50		Ticket Number 272976	Arrive
Conc. Temp (°F) (C-1064): 56		Cubic Yards: 10	12:30
		Design (psi): 3000	Depart
			1:30

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-11A	8.15	4.01	12.64	11/2/2016	Lab	7	4	38.0	3010
855-11B	8.20	4.01	12.63	11/23/2016	Lab	28	5	46.6	3690
855-11C	8.20	4.00	12.55	11/23/2016	Lab	28	4	43.2	3440
855-11D	8.20			Hold	Lab				

Fracture Types



Remarks:

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Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/26/2016 **Time Cast:** 1:30 **Date Received:**

Placement Location: WALL: B WING ROOMS A6/103 TO B5/104, B WING FROM ROOMS B1/117 T O B10/119
 FOOTING: ACTIVITY 158 TO A1/123

Placement Method: TAILGATE

Cylinders Made By: CHARLES CROMWELL

Placement Vol. (yd³): 40

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

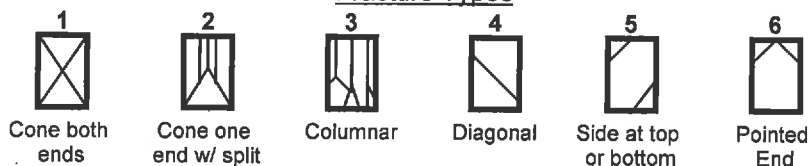
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR: 6	Load Number: 2	Batch
Air Content (%) (C-231)	Air WR: 6.8	Mixer Number: 148	12:20
Air Temp (°F): 50		Ticket Number 273981	Arrive
Conc. Temp (°F) (C-1064): 56		Cubic Yards: 10	12:50
		Design (psi): 3000	Depart
			2:12

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-12A	8.20	4.01	12.65	11/2/2016	Lab	7	4	44.6	3530
855-12B	8.20	4.02	12.68	11/23/2016	Lab	28	4	54.4	4290
855-12C	8.20	4.01	12.62	11/23/2016	Lab	28	4	57.6	4570
855-12D	8.20			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/2/2016 **Time Cast:** 1:35 **Date Received:**

Placement Location: FOOTINGS: A WING FROM SE CORNER ROOM B5/129 N TO DRY STORAGE 166 THEN E TO OFFICE 168 TO STAFF 169

Placement Method: TAILGATE **Placement Vol. (yd³):** 50

Cylinders Made By: CHARLES CROMWELL **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

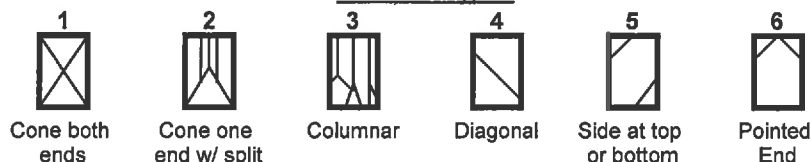
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR: 6.0	Load Number: 1	Batch 12:41
Air Content (%) (C-231)	Air WR: 6	Mixer Number: 155	Arrive 1:06
Air Temp (°F): 50		Ticket Number 277015	Depart 2:09
Conc. Temp (°F) (C-1064): 63		Cubic Yards: 10	
		Design (psi): 3000	

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-14A	8.20	4.01	12.66	11/9/2016	Lab	7	3	42.8	3380
855-14B	8.25	4.01	12.63	11/30/2016	Lab	28	5	52.6	4160
855-14C	8.25	4.01	12.62	11/30/2016	Lab	28	4	57.0	4520
855-14D	8.25			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/2/2016 **Time Cast:** 2:30

Date Received:

Placement Location: WALLS: ACTIVITY ROOM 158

Placement Method: TAILGATE

Placement Vol. (yd³): 50

Cylinders Made By: CHARLES CROMWELL

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) Maximum (°F)

DELIVERY INFORMATION

Admixtures: MASTER AIR
MASTER GLENIUM

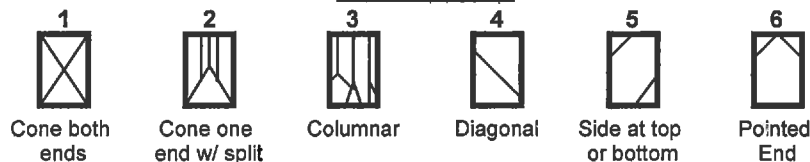
TEST RESULTS

Slump (in) (C-143): **Slump WR:** 6.0
Air Content (%) (C-231) **Air WR:** 6.5
Air Temp (°F): 50
Conc. Temp (°F) (C-1064): 64

Load Number: 2 **Batch**
Mixer Number: 156 1:28
Ticket Number 277019 **Arrive**
2:08
Cubic Yards: 10 **Depart**
Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-15A	8.30	4.00	12.56	11/9/2016	Lab	7	5	56.0	4460
855-15B	8.30	4.00	12.58	11/30/2016	Lab	28	5	57.8	4590
855-15C	8.30	4.01	12.63	11/30/2016	Lab	28	5	60.4	4780
855-15D	8.30			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/8/2016 **Time Cast:** 1:41

Date Received:

Placement Location: FOOTING: VAN GARAGE 3

Placement Method: TRUCK & HOPPER

Placement Vol. (yd³): 21

Cylinders Made By: JOSHUA MOORE

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

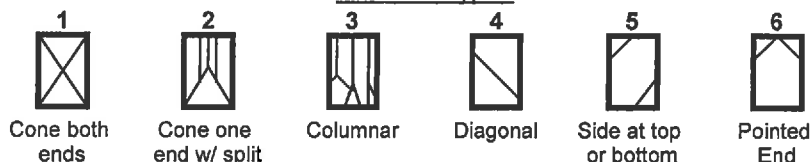
Admixtures: AE
 MRWR

TEST RESULTS

Slump (in) (C-143):	Slump WR:	6	Load Number:	1	Batch
Air Content (%) (C-231)	Air WR:	5.5	Mixer Number:	150	12:24
Air Temp (°F):	55		Ticket Number	209207	Arrive
Conc. Temp (°F) (C-1064):	64		Cubic Yards:	10.5	1:10
			Design (psi):	3000	Depart

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-16A	8.20	4.01	12.62	11/15/2016	Lab	7	5	45.8	3630
855-16B	8.15	4.01	12.61	12/6/2016	Lab	28	4	59.6	4730
855-16C	8.20	3.99	12.48	12/6/2016	Lab	28	3	56.4	4520
855-16D	8.20			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/9/2016 **Time Cast:** 9:30 **Date Received:** 11/10/2016
Placement Location: WALL FOR GARAGE & FOOTINGS A WING S SIDE OF BLDG FROM B5/129 TO C4/126 & CORE WING FROM FOYER 150 S TO
Placement Method: PUMP **Placement Vol. (yd³):** 31
Cylinders Made By: CHARLES CROMWELL **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

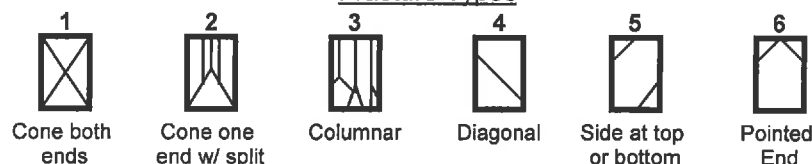
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR: 6	Load Number: 1	Batch: 8:13
Air Content (%) (C-231)	Air WR: 7	Mixer Number: 155	Arrive: 8:51
Air Temp (°F): 50		Ticket Number: 277244	Depart: 9:28
Conc. Temp (°F) (C-1064): 59		Cubic Yards: 10.5	
		Design (psi): 4500	

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-17A	8.30	4.01	12.64	11/11/2016	Lab	2	4	42.4	3360
855-17B	8.30	4.01	12.60	11/16/2016	Lab	7	4	65.4	5190
855-17C	8.30	4.00	12.56	12/7/2016	Lab	28	4	79.0	6290
855-17D	8.25	4.00	12.58	12/7/2016	Lab	28	4	80.4	6390
855-17E	8.25			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/10/2016 **Time Cast:** 9:51 **Date Received:**

Placement Location: FOOTING: A WING SOUTH SIDE OF BLDG AND CORE WING FROM FOYER 150 SOUTH TO CORNER
 WALL: GARAGE #1

Placement Method: CHUTE **Placement Vol. (yd³):** 14

Cylinders Made By: ADAM CARR **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS
Temperatures

Minimum (°F) **Maximum (°F)**

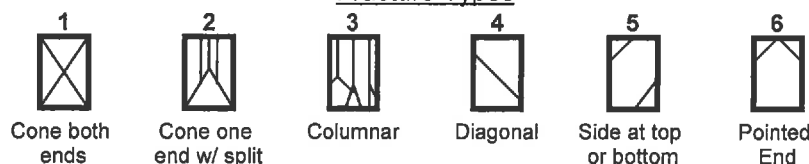
DELIVERY INFORMATION

Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143): 4.5	Air Content (%) (C-231): 4.9	Air WR: 6.9	Load Number: 1	Batch: 9:05
Air Temp (°F): 48	Conc. Temp (°F) (C-1064): 62		Mixer Number: 148	Arrive: 9:20
			Ticket Number: 209289	Depart: 10:52
			Cubic Yards: 7	
			Design (psi): 3000	

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In ²)	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-18A	8.35	3.99	12.48	11/17/2016	Lab	7	5	48.0	3850
855-18B	8.35	4.01	12.60	12/8/2016	Lab	28	5	64.0	5080
855-18C	8.35	4.00	12.53	12/8/2016	Lab	28	5	61.4	4900
855-18D	8.35			Hold	Lab				

Fracture Types


Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:
General Contractor:
Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/14/2016 **Time Cast:** 1:35 **Date Received:**
Placement Location: WALLS: FROM MGR / 153 TO FOYER 150

Placement Method: TAILGATE

Placement Vol. (yd³): 16

Cylinders Made By: CHARLES CROMWELL

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 43 **Maximum (°F)** 78

DELIVERY INFORMATION

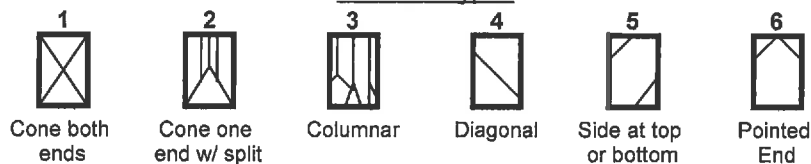
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR: 5.0	Load Number: 1	Batch
Air Content (%) (C-231)	Air WR: 6.5	Mixer Number: 118	12:33
Air Temp (°F): 66		Ticket Number 276237	Arrive
Conc. Temp (°F) (C-1064): 64		Cubic Yards: 10	1:16
		Design (psi): 3000	Depart
			2:00

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-19A	8.35	4.01	12.64	11/21/2016	Lab	7	4	41.4	3280
855-19B	8.35	4.01	12.66	12/12/2016	Lab	28	4	58.0	4580
855-19C	8.35	4.01	12.65	12/12/2016	Lab	28	5	52.6	4160
855-19D	8.35			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/15/2016 **Time Cast:** 11:40 **Date Received:**

Placement Location: WALL: FOYER 150 SOUTH AND GARAGE FOOTING

Placement Method: TAILGATE

Placement Vol. (yd³): 16

Cylinders Made By: CHARLES CROMWELL

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

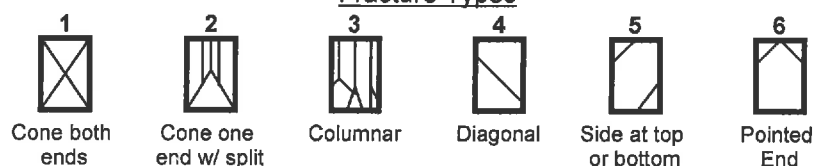
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR: 6	Load Number: 1	Batch
Air Content (%) (C-231)	Air WR: 6.5	Mixer Number: 85	10:45
Air Temp (°F): 50		Ticket Number 276419	Arrive
Conc. Temp (°F) (C-1064): 67		Cubic Yards: 10	11:19
		Design (psi): 3000	Depart

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-20A	8.25	4.02	12.66	11/22/2016	Lab	7	5	38.8	3060
855-20B	8.35	4.01	12.64	12/13/2016	Lab	28	4	49.8	3940
855-20C	8.35	4.01	12.64	12/13/2016	Lab	28	5	49.6	3930
855-20D	8.30			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/16/2016 **Time Cast:** 1:48 **Date Received:**

Placement Location: WALLS: EXTERIOR ROOMS 101-177 AND 122-124
 STAFF BREAK ROOM WALLS IN FRONT OF KITCHEN

Placement Method: CHUTE **Placement Vol. (yd³):** 20

Cylinders Made By: ADAM CARR **Aggregate Size (in):** 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

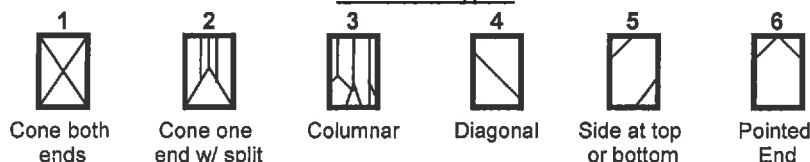
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143): 5	Load Number: 2	Batch: 12:25
Air Content (%) (C-231)	Mixer Number: 144	Arrive: 1:24
Air Temp (°F): 51	Ticket Number: 209505	Depart: 2:11
Conc. Temp (°F) (C-1064): 71	Cubic Yards: 9	
	Design (psi): 3000	

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-21A	8.40	4.01	12.64	11/23/2016	Lab	7	5	39.8	3150
855-21B	8.40	4.00	12.54	12/14/2016	Lab	28	5	61.4	4900
855-21C	8.40	4.01	12.65	12/14/2016	Lab	28	5	57.2	4520
855-21D	8.40			Hold	Lab				
855-21E	8.40			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/17/2016 **Time Cast:** 2:20 **Date Received:**

Placement Location: WALLS FOR KITCHEN AND CAR WASH, E SIDE OF C WING

Placement Method: TAILGATE

Placement Vol. (yd³): 18

Cylinders Made By: CHARLES CROMWELL

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

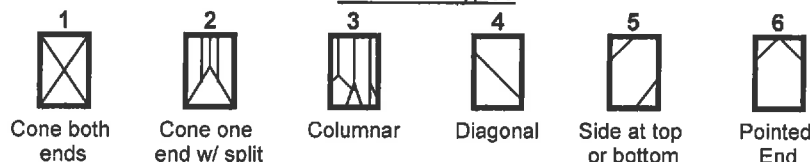
Admixtures: MASTER AIR
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143):	Slump WR: 5.5	Load Number: 1	Batch
Air Content (%) (C-231)	Air WR: 6.2	Mixer Number: 156	1:17
Air Temp (°F): 50		Ticket Number 276541	Arrive
Conc. Temp (°F) (C-1064): 68		Cubic Yards: 10.5	1:40
		Design (psi): 3000	Depart

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-22A	8.25	4.00	12.58	11/23/2016	Lab	6	4	45.8	3640
855-22B	8.25	4.00	12.58	12/15/2016	Lab	28	5	57.0	4530
855-22C	8.25	4.01	12.65	12/15/2016	Lab	28	3	55.2	4360
855-22D	8.25			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/18/2016 **Time Cast:** **Date Received:** 11/21/2016

Placement Location: EXT FOUNDATION: C4 - 126 TO A11 - 127
 CO-MGR 184 TO B5 - 129

Placement Method: TRUCK CHUTE

Placement Vol. (yd³): 18

Cylinders Made By: JOSHUA MOORE

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) **Maximum (°F)**

DELIVERY INFORMATION

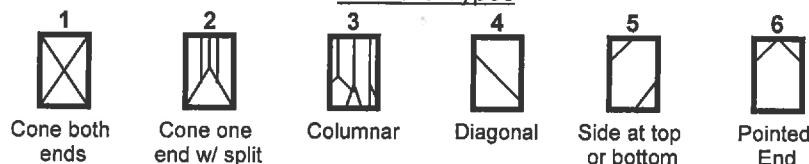
Admixtures: AE
 MRWR

TEST RESULTS

Slump (in) (C-143):	Slump WR: 6	Load Number: 1	Batch
Air Content (%) (C-231)	Air WR: 5.5	Mixer Number: 108	1:16
Air Temp (°F): 55		Ticket Number 209659	Arrive
Conc. Temp (°F) (C-1064): 73		Cubic Yards: 10	2:05
		Design (psi): 3000	Depart

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-23A	8.30	4.00	12.57	11/28/2016	Lab	10	4	56.0	4460
855-23B	8.30	4.01	12.60	12/16/2016	Lab	28	4	68.2	5410
855-23C	8.30	4.02	12.66	12/16/2016	Lab	28	5	64.4	5090
855-23D	8.25			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/21/2016 **Time Cast:** **Date Received:** 11/27/2016

Placement Location: GARAGE FOOTING: ROOMS 179 TO 127 B5 - ALL

Placement Method: CHUTE

Placement Vol. (yd³): 16

Cylinders Made By: ADAM CARR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 33 **Maximum (°F)** 57

DELIVERY INFORMATION

Admixtures: MASTER AIR
 MASTER SET

TEST RESULTS

Slump (in) (C-143): 4.5

Load Number: 1 **Batch** 12:04

Air Content (%) (C-231) 5

Mixer Number: 148

Air Temp (°F): 38

Ticket Number 209712 **Arrive** 12:51

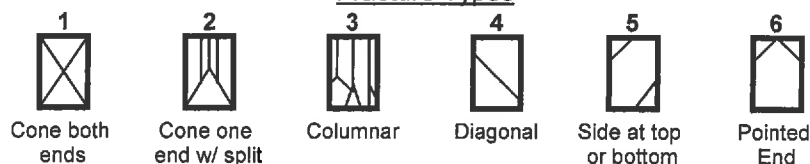
Conc. Temp (°F) (C-1064): 61

Cubic Yards: 8 **Depart** 1:40

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-24A	8.50	4.01	12.64	11/28/2016	Lab	7	5	46.2	3660
855-24B	8.40	4.01	12.60	12/19/2016	Lab	28	5	65.0	5160
855-24C	8.40	4.00	12.54	12/19/2016	Lab	28	5	67.5	5380
855-24D	8.50			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Special Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/21/2016 **Time Cast:** **Date Received:** 11/27/2016

Placement Location: GARAGE FOOTING: ROOMS 179 TO 127 B5 - ALL

Placement Method: CHUTE

Placement Vol. (yd³): 16

Cylinders Made By: ADAM CARR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 33 **Maximum (°F)** 57

DELIVERY INFORMATION

Admixtures: MASTER AIR
 MASTER SET

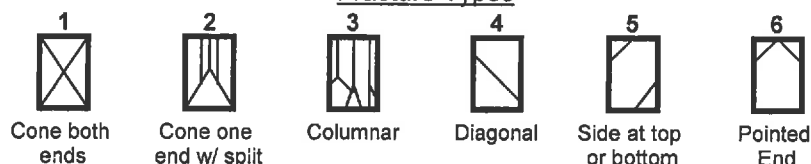
TEST RESULTS

Slump (in) (C-143): 2
Air Content (%) (C-231) 4.9
Air Temp (°F): 38
Conc. Temp (°F) (C-1064): 62

Load Number: 2 **Batch** 1:16
Mixer Number: 86
Ticket Number 209720 **Arrive** 1:54
Cubic Yards: 8 **Depart** 2:58
Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (in) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-25A	8.40	4.01	12.60	11/28/2016	Lab	7	5	47.2	3750
855-25B	8.40	4.01	12.62	12/19/2016	Lab	28	5	65.7	5210
855-25C	8.40	4.00	12.57	12/19/2016	Lab	28	5	67.5	5370
855-25D	8.45			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 11/28/2016 **Time Cast:** 11:32 **Date Received:**

Placement Location: FOUNDATION: GARAGE 2

Placement Method: CRANE & HOPPER

Placement Vol. (yd³): 20

Cylinders Made By: JOSHUA MOORE

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 41 **Maximum (°F)** 77

DELIVERY INFORMATION

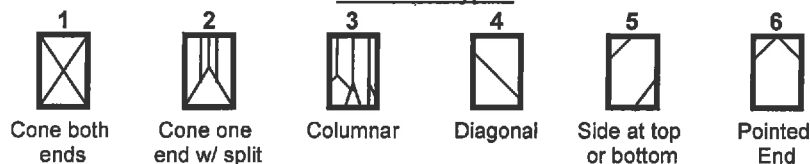
Admixtures: AE
MRWR

TEST RESULTS

Slump (in) (C-143):	Slump WR: 5	Load Number: 1	Batch
Air Content (%) (C-231)	Air WR: 6.5	Mixer Number: 83	10:16
Air Temp (°F): 40		Ticket Number 209861	Arrive
Conc. Temp (°F) (C-1064): 65		Cubic Yards: 10	10:56
		Design (psi): 3000	Depart
			11:52

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(in) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-26A	8.25	4.01	12.61	12/5/2016	Lab	7	3	36.8	2920
855-26B	8.25	4.00	12.59	12/27/2016	Lab	29	4	47.8	3800
855-26C	8.25	4.00	12.58	12/27/2016	Lab	29	4	46.6	3710
855-26D	8.25			Hold	Lab				

Fracture Types



Remarks:

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 12/2/2016 **Time Cast:** 10:45

Date Received:

Placement Location: GARAGE FOUNDATION WALLS

Placement Method: TAILGATE

Placement Vol. (yd³): 18

Cylinders Made By: NATHANIEL MCARTHUR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 32 **Maximum (°F)** 90

DELIVERY INFORMATION

Admixtures: AIR
 MRWR
 1% POLAR SET

TEST RESULTS

Slump (in) (C-143): 5.5

Load Number: 2

Batch

Air Content (%) (C-231) 6.0

Mixer Number: 95

9:38

Air Temp (°F): 44

Ticket Number 210029

Arrive

Conc. Temp (°F) (C-1064): 64

Cubic Yards: 9

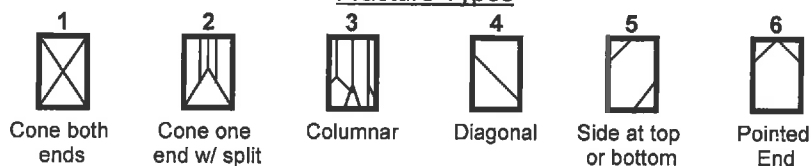
10:25

Design (psi): 3000

Depart

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-27A	8.35	4.02	12.67	12/9/2016	Lab	7	5	34.6	2730
855-27B	8.35	4.02	12.67	12/30/2016	Lab	28	5	45.6	3600
855-27C	8.35	4.02	12.70	12/30/2016	Lab	28	3	42.4	3340
855-27D	8.35			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 3/29/2017 **Time Cast:** 10:45 **Date Received:** 3/30/2017

Placement Location: BOTH ELEVATOR PITS

Placement Method: TAILGATE

Placement Vol. (yd³): 13

Cylinders Made By: ADAM CARR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 56 **Maximum (°F)** 74

DELIVERY INFORMATION

Admixtures: MASTER AIR / AE200 /
 MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143): 4 1/2

Load Number: 1 **Batch**

Air Content (%) (C-231) 4.6

Mixer Number: 85 8:37

Air Temp (°F): 42

Ticket Number 212175 **Arrive**

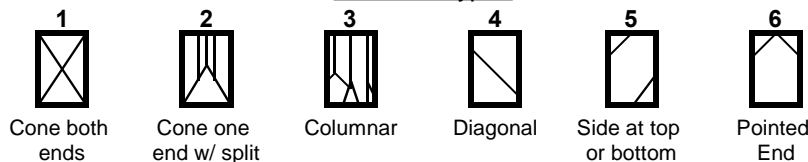
Conc. Temp (°F) (C-1064): 63

Cubic Yards: 7 9:18

Design (psi): 3000 **Depart**

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-28A	8.45	4.01	12.63	4/5/2017	Lab	7	5	43.2	3420
855-28B	8.40	4.01	12.60	4/26/2017	Lab	28	5	54.4	4320
855-28C	8.50	4.00	12.57	4/26/2017	Lab	28	4	56.0	4460
855-28D	8.50			5/24/2017	Lab	56			

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction **Project Number:** 14-1188.3
 Materials Testing and Speical Inspections Services

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 3/31/2017 **Time Cast:** 10:10 **Date Received:** 4/3/2017

Placement Location: ELEVATOR WALLS

Placement Method: DIRECT DISCHARGE

Placement Vol. (yd³): 7

Cylinders Made By: ADAM CARR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 55.4 **Maximum (°F)** 95.7

DELIVERY INFORMATION

Admixtures: MASTER AIR / AE200 / MASTER GLENIUM

TEST RESULTS

Slump (in) (C-143): 5

Load Number: 1 **Batch** 9:16

Air Content (%) (C-231) 5.5

Mixer Number: 119 **Arrive** 9:50

Air Temp (°F): 46

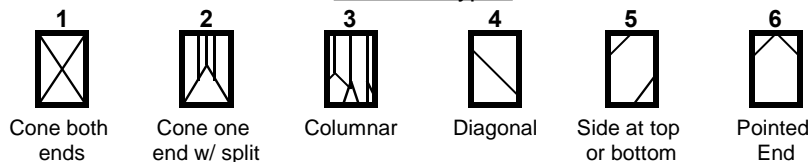
Ticket Number 212204 **Depart** 10:27

Conc. Temp (°F) (C-1064): 63

Cubic Yards: 7 **Design (psi):** 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-29A	8.35	4.02	12.68	4/7/2017	Lab	7	5	37.4	2950
855-29B	8.35	4.02	12.66	4/28/2017	Lab	28	5	47.6	3760
855-29C	8.35	25.52	511.31	4/28/2017	Lab	28	5	49.2	100
855-29D	8.35			5/26/2017	Lab	56			

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 5/8/2017 **Time Cast:** **Date Received:** 5/9/2017

Placement Location: INTERIOR FOOTING: RM 107-119 B-WING

Placement Method: PUMP

Placement Vol. (yd³): 30

Cylinders Made By: JOSHUA MOORE

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) NT **Maximum (°F)** NT

DELIVERY INFORMATION

Admixtures: AE / MRWR

TEST RESULTS

Slump (in) (C-143): 7

Load Number: 1 **Batch**
12:57

Air Content (%) (C-231) 6.2

Mixer Number 95

Air Temp (°F): 50

Ticket Number 213207 **Arrive**
1:36

Conc. Temp (°F) (C-1064): 59

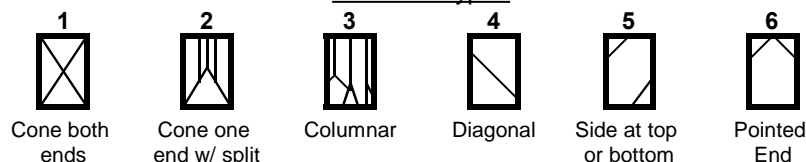
Cubic Yards: 10

Design (psi): 3000

Depart
1:52

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-30A	8.25	4.01	12.64	5/15/2017	Lab	7	4	46.6	3690
855-30B	8.25	4.00	12.57	6/5/2017	Lab	28	4	58.0	4620
855-30C	8.25	4.01	12.62	6/5/2017	Lab	28	5	57.0	4520
855-30D	8.25			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 5/9/2017 **Time Cast:** 1:55 **Date Received:** 5/10/2017

Placement Location: COMPLETION OF B WING FOOTING

Placement Method: PUMP

Placement Vol. (yd³): 40

Cylinders Made By: NATHANIEL MCARTHUR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 50 **Maximum (°F)** 67

DELIVERY INFORMATION

Admixtures: AE / MRWR

TEST RESULTS

Slump (in) (C-143): 5 3/4

Load Number: 3 **Batch:** 12:52

Air Content (%) (C-231) 6.4

Mixer Number 84

Air Temp (°F): 55

Ticket Number 213247 **Arrive** 1:40

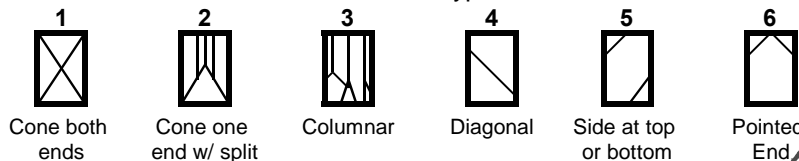
Conc. Temp (°F) (C-1064): 60

Cubic Yards: 10

Design (psi): 3000 **Depart** 2:10

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-31A	8.25	4.01	12.61	5/16/2017	Lab	7	5	48.6	3860
855-31B	8.25	4.01	12.64	6/6/2017	Lab	28	3	59.8	4730
855-31C	8.25	4.01	12.65	6/6/2017	Lab	28	5	57.6	4550
855-31D	8.25			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 5/11/2017 **Time Cast:** 8:00 **Date Received:** 5/12/2017

Placement Location: SLAB ON GRADE WING B

Placement Method: PUMP

Placement Vol. (yd³): 70

Cylinders Made By: PETER PHELAN

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 50 **Maximum (°F)** 66

DELIVERY INFORMATION

Admixtures: FIBER MESH / MRWR/ 2% MASTERSET

TEST RESULTS

Slump (in) (C-143): 5 1/2

Load Number: 1 **Batch**

Air Content (%) (C-231) 3

Mixer Number 6:50

Air Temp (°F): 52

Ticket Number 290385 **Arrive**

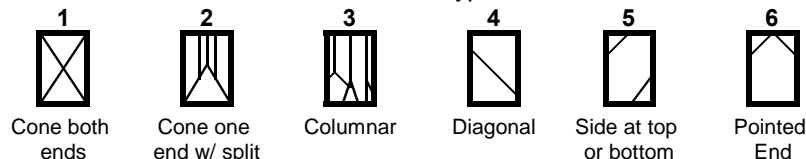
Conc. Temp (°F) (C-1064): 68

Cubic Yards: 10 **Depart**

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-32A	8.45	4.01	12.60	5/18/2017	Lab	7	5	47.6	3780
855-32B	8.40	4.00	12.59	6/8/2017	Lab	28	4	56.6	4500
855-32C	8.40	4.01	12.64	6/8/2017	Lab	28	4	57.6	4560
855-32D	8.40			Hold	Lab				

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 5/11/2017 **Time Cast:** 9:40 **Date Received:** 5/12/2017

Placement Location: SLAB ON GRADE WING B

Placement Method: PUMP

Placement Vol. (yd³): 70

Cylinders Made By: PETER PHELAN

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 50 **Maximum (°F)** 66

DELIVERY INFORMATION

Admixtures: FIBER MESH / MRWR/ 2% MASTERSET

TEST RESULTS

Slump (in) (C-143): 6

Load Number: 6 **Batch** 8:04

Air Content (%) (C-231) 2.5

Mixer Number 136

Air Temp (°F): 52

Ticket Number 290395 **Arrive**

Conc. Temp (°F) (C-1064): 68

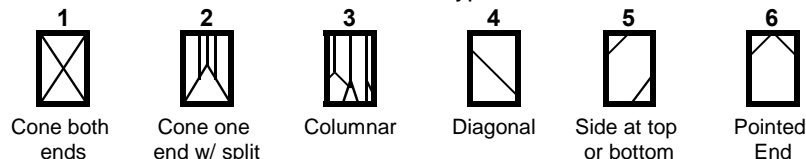
Cubic Yards: 10

Design (psi): 3000

Depart

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-33A	8.50	4.02	12.67	5/18/2017	Lab	7	5	41.8	3300
855-33B	8.50	4.02	12.66	6/8/2017	Lab	28	4	50.8	4010
855-33C	8.45	4.02	12.68	6/8/2017	Lab	28	5	50.6	3990
855-33D	8.45			Hold	Lab				

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 5/16/2017 **Time Cast:** 7:50 **Date Received:** 5/17/2017

Placement Location: FINISHING BWING SLAB EAST END

Placement Method: PUMP

Placement Vol. (yd³): 93

Cylinders Made By: PETER PHELAN

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) NT **Maximum (°F)** NT

DELIVERY INFORMATION

Admixtures: MRWR / POLYMESH / 1% NCA

TEST RESULTS

Slump (in) (C-143): 6

Load Number: 3 **Batch**

Air Content (%) (C-231) 4.5

Mixer Number 158 6:44

Air Temp (°F): 55

Ticket Number 290509 **Arrive**

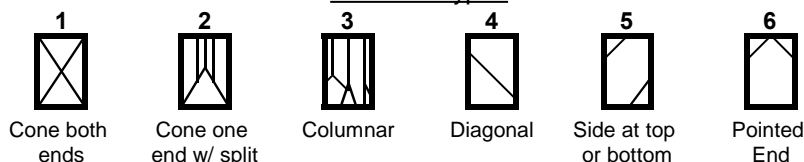
Conc. Temp (°F) (C-1064): 68

Cubic Yards: 10 **Depart**

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-34A	8.20	4.01	12.63	5/23/2017	Lab	7	5	35.2	2790
855-34B	8.20	4.01	12.63	6/13/2017	Lab	28	5	41.8	3310
855-34C	8.20	4.01	12.63	6/13/2017	Lab	28	5	45.4	3600
855-34D	8.20			Hold	Lab				

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 5/16/2017 **Time Cast:** 8:35 **Date Received:** 5/17/2017

Placement Location: FINISHING BWING SLAB EAST END

Placement Method: PUMP

Placement Vol. (yd³): 93

Cylinders Made By: PETER PHELAN

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) NT **Maximum (°F)** NT

DELIVERY INFORMATION

Admixtures: MRWR / POLYMESH / 1% NCA

TEST RESULTS

Slump (in) (C-143): 6

Load Number: 7 **Batch**

Air Content (%) (C-231) 4

Mixer Number 84 7:25

Air Temp (°F): 60

Ticket Number 290515 **Arrive**

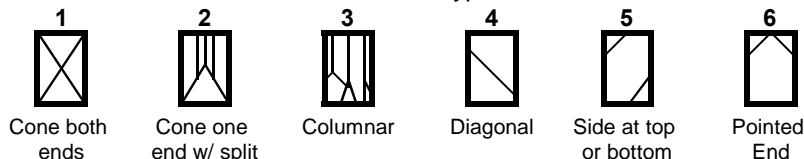
Conc. Temp (°F) (C-1064): 69

Cubic Yards: 10 **Depart**

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In) ²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-35A	8.20	4.01	12.65	5/23/2017	Lab	7	4	35.0	2770
855-35B	8.20	4.01	12.64	6/13/2017	Lab	28	5	41.6	3290
855-35C	8.20	4.01	12.62	6/13/2017	Lab	28	3	41.8	3310
855-35D	8.20			Hold	Lab				

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 6/14/2017 **Time Cast:** 2:40 **Date Received:** 6/15/2017

Placement Location: "CORE" SECTION HAUNCH FOOTINGS

Placement Method: PUMP

Placement Vol. (yd³): 80

Cylinders Made By: PETER PHELAN

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 58 **Maximum (°F)** 80

DELIVERY INFORMATION

Admixtures: MRWR

TEST RESULTS

Slump (in) (C-143): 4

Load Number: 2 **Batch** 1:36

Air Content (%) (C-231) 2.5

Mixer Number 86

Air Temp (°F): 79

Ticket Number 332299

Arrive

Conc. Temp (°F) (C-1064): 76

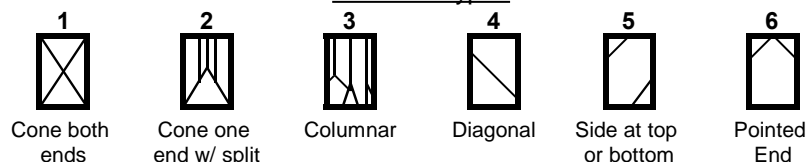
Cubic Yards: 10

Depart

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-36A	8.50	4.01	12.64	6/21/2017	Lab	7	5	48.2	3810
855-36B	8.50	4.01	12.66	7/12/2017	Lab	28	5	57.4	4540
855-36C	8.50	4.01	12.64	7/12/2017	Lab	28	5	55.2	4370
855-36D	8.50			Hold	Lab				

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Special Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 6/14/2017 **Time Cast:** 4:15 **Date Received:** 6/15/2017

Placement Location: "CORE" SECTION HAUNCH FOOTINGS

Placement Method: PUMP

Placement Vol. (yd³): 80

Cylinders Made By: PETER PHELAN

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 58 **Maximum (°F)** 80

DELIVERY INFORMATION

Admixtures: MRWR

TEST RESULTS

Slump (in) (C-143): 5 1/2

Load Number: 6 **Batch**

Air Content (%) (C-231) 1.6

Mixer Number

Air Temp (°F): 79

Ticket Number **Arrive**

Conc. Temp (°F) (C-1064): 76

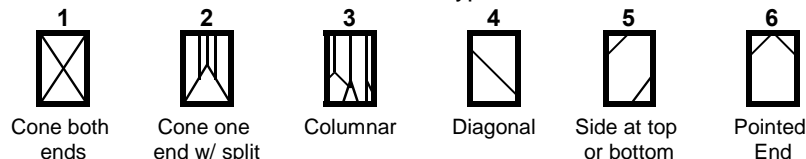
Cubic Yards: 10

Depart

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area (In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-37A	8.50	4.02	12.68	6/21/2017	Lab	7	5	41.8	3300
855-37B	8.50	4.01	12.65	7/12/2017	Lab	28	4	53.0	4190
855-37C	8.50	4.02	12.67	7/12/2017	Lab	28	4	52.8	4170
855-37D	8.50			Hold	Lab				

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 6/15/2017 **Time Cast:** 8:11 **Date Received:** 6/16/2017

Placement Location: FOOTINGS: A-WING AND ALL OF C-WING

Placement Method: PUMP

Placement Vol. (yd³): 210

Cylinders Made By: ADAM CARR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 73 **Maximum (°F)** 80

DELIVERY INFORMATION

Admixtures: POLYMESH FIBER /
 MASTERGLENIUM 7500 MID-RANGE

TEST RESULTS

Slump (in) (C-143): 7 1/4

Load Number: 1 **Batch:** 6:59

Air Content (%) (C-231) 1.8

Mixer Number 163

Air Temp (°F): 68

Ticket Number 402863 **Arrive:** 7:45

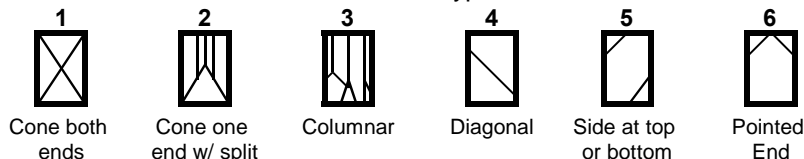
Conc. Temp (°F) (C-1064): 71

Cubic Yards: 10

Design (psi): 3000 **Depart:** 8:20

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-38A	8.35	4.01	12.65	6/22/2017	Lab	7	4	29.6	2340
855-38B	8.35	4.01	12.63	7/13/2017	Lab	28	5	38.0	3010
855-38C	8.35	4.02	12.67	7/13/2017	Lab	28	5	37.0	2920
855-38D	8.35	4.01	12.60	8/16/2017	Lab	62	5	43.0	3410

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 6/15/2017 **Time Cast:** 9:50 **Date Received:** 6/16/2017

Placement Location: FOOTINGS: A-WING AND ALL OF C-WING

Placement Method: PUMP

Placement Vol. (yd³): 210

Cylinders Made By: ADAM CARR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 73 **Maximum (°F)** 80

DELIVERY INFORMATION

Admixtures: POLYMESH FIBER /
 MASTERGLENIUM 7500 MID-RANGE

TEST RESULTS

Slump (in) (C-143): 6 3/4

Load Number: 8 **Batch:** 9:05

Air Content (%) (C-231) 1.9

Mixer Number 107

Air Temp (°F): 70

Ticket Number 402872 **Arrive** 9:41

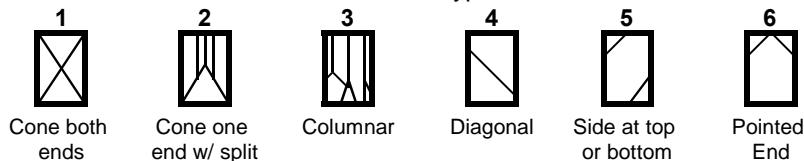
Conc. Temp (°F) (C-1064): 73

Cubic Yards: 10

Design (psi): 3000 **Depart** 10:00

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-39A	8.40	4.01	12.63	6/22/2017	Lab	7	5	34.6	2740
855-39B	8.40	4.02	12.69	7/13/2017	Lab	28	5	45.0	3550
855-39C	8.40	4.00	12.56	7/13/2017	Lab	28	4	46.4	3690
855-39D	8.40			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 6/15/2017 **Time Cast:** 11:15 **Date Received:** 6/16/2017

Placement Location: FOOTINGS: A-WING AND ALL OF C-WING

Placement Method: PUMP

Placement Vol. (yd³): 210

Cylinders Made By: ADAM CARR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 73 **Maximum (°F)** 80

DELIVERY INFORMATION

Admixtures: POLYMESH FIBER /
 MASTERGLENIUM 7500 MID-RANGE

TEST RESULTS

Slump (in) (C-143): 6 1/2

Load Number: 15 **Batch**
 10:21

Air Content (%) (C-231) 1.8

Mixer Number 107

Air Temp (°F): 71

Ticket Number 402879 **Arrive**
 10:56

Conc. Temp (°F) (C-1064): 74

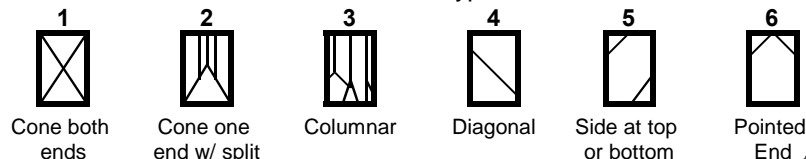
Cubic Yards: 10

Design (psi): 3000

Depart
 11:29

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-40A	8.45	4.01	12.62	6/22/2017	Lab	7	3	34.8	2760
855-40B	8.45	4.00	12.59	7/13/2017	Lab	28	5	42.2	3350
855-40C	8.45	4.01	12.64	7/13/2017	Lab	28	5	44.8	3550
855-40D	8.45			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction **Project Number:** 14-1188.3
 Materials Testing and Speical Inspections Services

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 6/15/2017 **Time Cast:** 10:48 **Date Received:** 6/16/2017

Placement Location: FOOTINGS: A-WING AND ALL OF C-WING

Placement Method: PUMP

Placement Vol. (yd³): 210

Cylinders Made By: ADAM CARR

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 73 **Maximum (°F)** 80

DELIVERY INFORMATION

Admixtures: POLYMESH FIBER /
 MASTERGLENIUM 7500 MID-
 RANGE

TEST RESULTS

Slump (in) (C-143): 6

Load Number: 18 **Batch**
10:53

Air Content (%) (C-231) 1.9

Mixer Number 99

Air Temp (°F): 72

Ticket Number 21420 **Arrive**
11:38

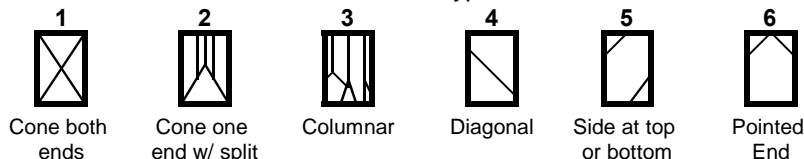
Conc. Temp (°F) (C-1064): 77

Cubic Yards: 10

Design (psi): 3000 **Depart**
12:14

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-41A	8.40	4.01	12.65	6/22/2017	Lab	7	4	30.4	2400
855-41B	8.40	4.00	12.59	7/13/2017	Lab	28	5	40.6	3230
855-41C	8.40	4.01	12.61	7/13/2017	Lab	28	5	41.0	3250
855-41D	8.40			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 6/20/2017 **Time Cast:** 8:40 **Date Received:** 6/21/2017

Placement Location: SLAB ON GRADE----WING C

Placement Method: PUMP

Placement Vol. (yd³): 110

Cylinders Made By: PETER PHELAN

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 72 **Maximum (°F)** 85

DELIVERY INFORMATION

Admixtures: MRWR / POLYFIBER MESH

TEST RESULTS

Slump (in) (C-143): 6

Load Number: 1 **Batch**

Air Content (%) (C-231) 2

Mixer Number 157 **7:33**

Air Temp (°F):

Ticket Number 338430 **Arrive**

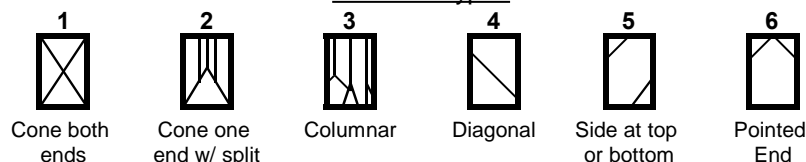
Conc. Temp (°F) (C-1064): 74

Cubic Yards: 10 **Depart**

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-42A	8.40	4.01	12.62	6/27/2017	Lab	7	4	36.0	2850
855-42B	8.40	3.99	12.52	7/18/2017	Lab	28	5	43.4	3470
855-42C	8.40	4.00	12.55	7/18/2017	Lab	28	4	43.4	3460
855-42D	8.40			Hold	Lab				

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 6/20/2017 **Time Cast:** 9:45 **Date Received:** 6/21/2017

Placement Location: SLAB ON GRADE----WING C

Placement Method: PUMP

Placement Vol. (yd³): 110

Cylinders Made By: PETER PHELAN

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 72 **Maximum (°F)** 85

DELIVERY INFORMATION

Admixtures: MRWR / POLYFIBER MESH

TEST RESULTS

Slump (in) (C-143): 7 1/2

Load Number: 7 **Batch**

Air Content (%) (C-231) 2.2

Mixer Number 108 **8:37**

Air Temp (°F):

Ticket Number 338437 **Arrive**

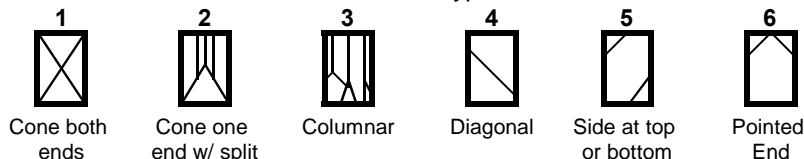
Conc. Temp (°F) (C-1064): 76

Cubic Yards: 10 **Depart**

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-43A	8.35	4.01	12.63	6/27/2017	Lab	7	4	27.8	2200
855-43B	8.35	4.00	12.59	7/18/2017	Lab	28	5	36.4	2890
855-43C	8.35	4.01	12.61	7/18/2017	Lab	28	5	37.4	2970
855-43D	8.35	4.02	12.70	8/15/2017	Lab	56	4	38.6	3040

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 6/20/2017 **Time Cast:** 10:20 **Date Received:** 6/21/2017

Placement Location: SLAB ON GRADE----WING C

Placement Method: PUMP

Placement Vol. (yd³): 110

Cylinders Made By: PETER PHELAN

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 72 **Maximum (°F)** 85

DELIVERY INFORMATION

Admixtures: MRWR / POLYFIBER MESH

TEST RESULTS

Slump (in) (C-143): 7

Load Number: 10 **Batch**

Air Content (%) (C-231) 2

Mixer Number 77 9:19

Air Temp (°F):

Ticket Number 338441 **Arrive**

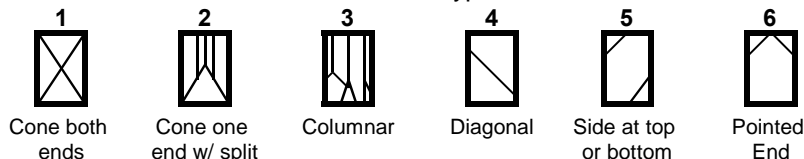
Conc. Temp (°F) (C-1064): 78

Cubic Yards: 10 **Depart**

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-44A	8.40	4.01	12.64	6/27/2017	Lab	7	4	27.8	2200
855-44B	8.40	4.01	12.61	7/18/2017	Lab	28	5	37.2	2950
855-44C	8.40	4.00	12.59	7/18/2017	Lab	28	5	36.6	2910
855-44D	8.40	4.01	12.61	8/15/2017	Lab	56	5	42.4	3360

Fracture Types




Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 7/27/2017 **Time Cast:** **Date Received:** 7/28/2017

Placement Location: FLOOR SLAB (5 CAR GARAGES)

Placement Method: TRUCK CHUTE

Placement Vol. (yd³): 40

Cylinders Made By: JOSHUA MOORE

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 70 **Maximum (°F)** 87

DELIVERY INFORMATION

Admixtures: MRWR / FP20 / POLYFIBER MESH

TEST RESULTS

Slump (in) (C-143): 6

Load Number: 2 **Batch:** 6:38

Air Content (%) (C-231) 3

Mixer Number 148

Air Temp (°F):

Ticket Number 215799 **Arrive** 7:24

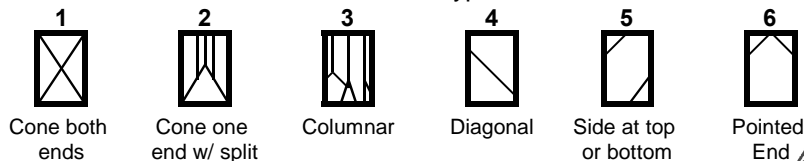
Conc. Temp (°F) (C-1064): 74

Cubic Yards: 10

Design (psi): 3000 **Depart** 8:02

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-45A	8.35	4.00	12.56	8/3/2017	Lab	7	5	45.4	3620
855-45B	8.35	4.00	12.57	8/24/2017	Lab	28	5	54.0	4300
855-45C	8.35	4.00	12.57	8/24/2017	Lab	28	5	54.2	4310
855-45D	8.35			Hold	Lab				

Fracture Types



Remarks:

Report of Concrete Compressive Strength

ASTM C-31 & C-39

Project Name: Portland ME - Portland Retirement Residence - Construction
 Materials Testing and Speical Inspections Services

Project Number: 14-1188.3

Client: Colson & Colson General Contractors, Inc.

Client Contract Number:

General Contractor:

Concrete Supplier: AUBURN CONCRETE

PLACEMENT INFORMATION

Date Cast: 10/10/2017 **Time Cast:** 8:10 **Date Received:** 10/11/2017

Placement Location: VAN GARAGE SLAB

Placement Method: TAILGATE

Placement Vol. (yd³): 22

Cylinders Made By: AIDAN BOYCE

Aggregate Size (in): 3/4

INITIAL CURING CONDITIONS

Temperatures

Minimum (°F) 64 **Maximum (°F)** 91

DELIVERY INFORMATION

Admixtures: MASTER SET FP20 / MASTER GLENIUM / POLYMESH FIBER

TEST RESULTS

Slump (in) (C-143): 7 1/2

Load Number: 2 **Batch:** 6:49

Air Content (%) (C-231) 3.2

Mixer Number 160

Air Temp (°F): 66

Ticket Number 218238 **Arrive** 7:30

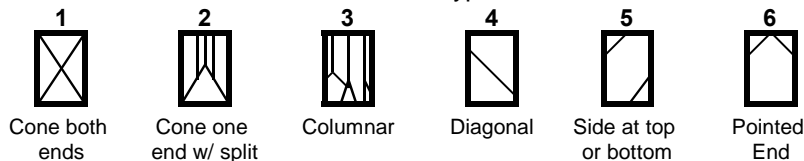
Conc. Temp (°F) (C-1064): 75

Cubic Yards: 11 **Depart** 8:05

Design (psi): 3000

Cylinder Designation	Cylinder Weight (lbs)	Cylinder Diameter (in)	Cross Sectional Area(In)²	Date Of Test	Cure Type	Age (days)	Fracture Type	Load (kips)	Strength (psi)
855-46A	8.35	4.00	12.57	10/17/2017	Lab	7	4	35.6	2830
855-46B	8.35	4.01	12.62	11/7/2017	Lab	28	3	43.6	3460
855-46C	8.35	4.00	12.59	11/7/2017	Lab	28	5	41.6	3300
855-46D	8.35			Hold	Lab				

Fracture Types



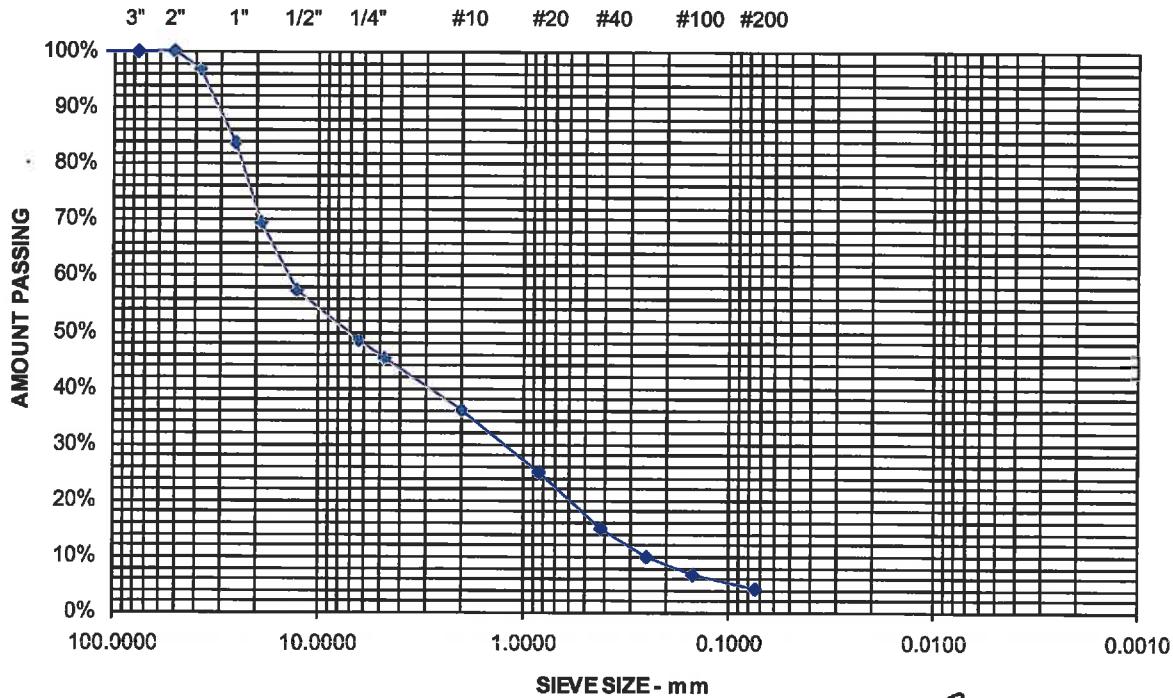
Remarks:

Project Name PORTLAND ME - PORTLAND RETIREMENT RESIDENCE -
CONSTRUCTION MATERIALS TESTING AND SPEICAL INSPECTIONS
Client COLSON & COLSON GENERAL CONTRACTORS, INC.
Material Type AGGREGATE BASE
Material Source CHANDLER PIT

Project Number 14-1188.3
Lab ID 21851G
Date Received 11/15/2016
Date Completed 11/18/2016
Tested By PAUL SHAFFER

<u>STANDARD</u> <u>DESIGNATION (mm/um)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>2015 MDOT 703.06 TYPE A</u> <u>SPECIFICATIONS (%)</u>
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	100
38.1 mm	1-1/2"	97	
25.0 mm	1"	83	
19.0 mm	3/4"	70	
12.5 mm	1/2"	57	45 - 70
6.3 mm	1/4"	48	30 - 55
4.75 mm	No. 4	45	
2.00 mm	No. 10	36	
850 um	No. 20	25	
425 um	No. 40	15	0 - 20
250 um	No. 60	10	
150 um	No. 100	7	
75 um	No. 200	4.3	0.0 - 6.0

SAMPLE MEETS SPECIFICATION



Comments

Roger E. Domingo
Roger E. Domingo

Report of Moisture-Density

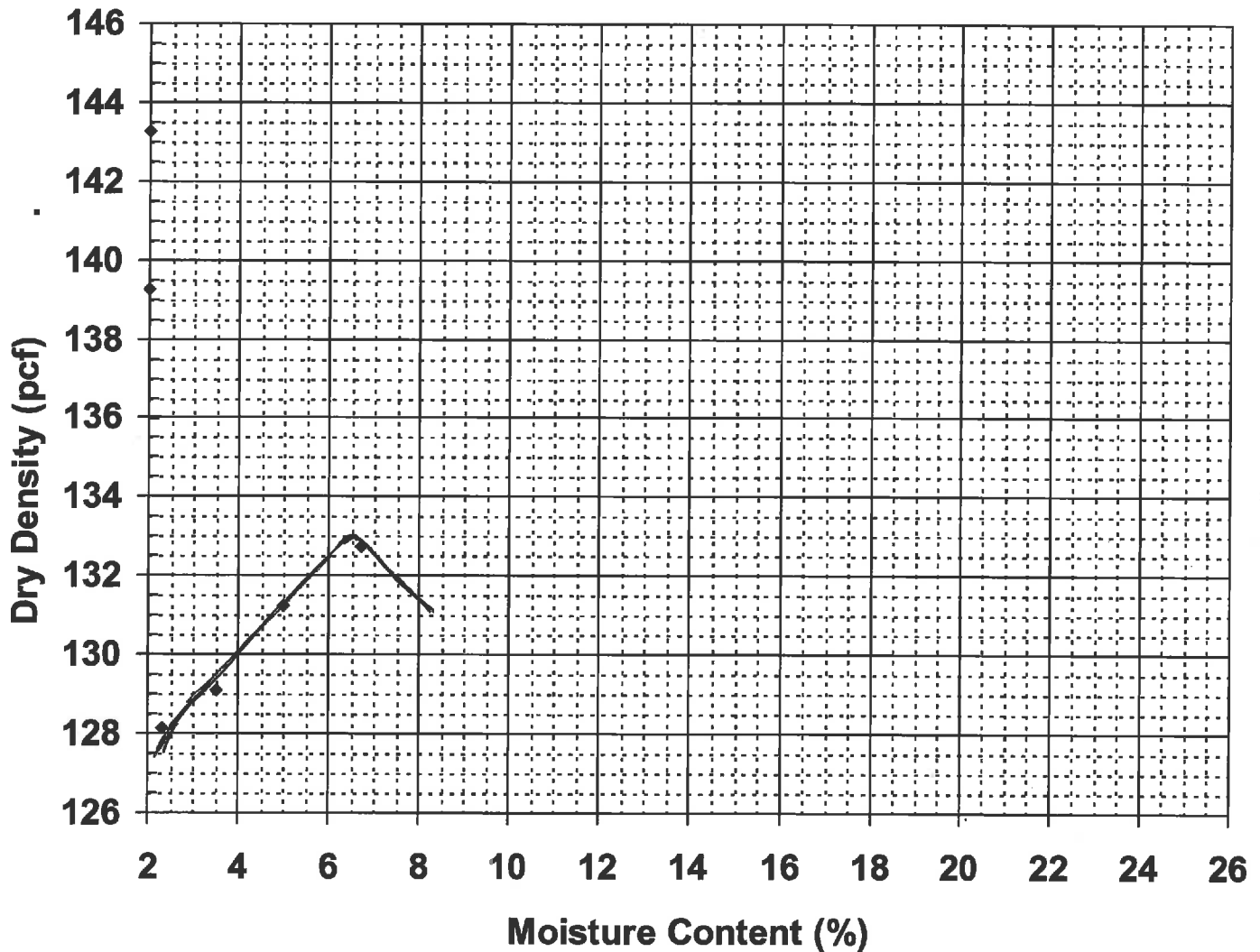
Method ASTM D-1557 MODIFIED

Procedure C

Project Name PORTLAND ME - PORTLAND RETIREMENT RESIDENCE -
CONSTRUCTION MATERIALS TESTING AND SPEICAL
Client COLSON & COLSON GENERAL CONTRACTORS, INC.
Material Type AGGREGATE BASE
Material Source CHANDLER PIT

Project Number 14-1188.3
Lab ID 21851G
Date Received 11/15/2016
Date Completed 11/15/2016
Tested By PAUL SHAFFER

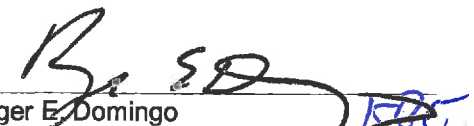
Moisture-Density Relationship Curve



Maximum Dry Density (pcf) 133
Optimum Moisture Content (%) 6.5
Percent Oversized 30.0%

Corrected Dry Density (pcf) **139.5**
Corrected Moisture Content (%) **5.1**

Comments


Roger E. Domingo



Report of Asphalt Content and Gradation by Ignition Extraction

ASTM D6307-10, AASHTO T 308

Project Name: Portland Retirement Residence
Project Location: Portland, ME
Client: Colson & Colson
Material Supplier: Pike - Westbrook
Mix Type / Design ID: 19.0 mm
Course Description: Base

Project Number: 14-1188.3
Lab ID: 21856G
Date Produced: 11/16/2016
Date Received: 11/16/16
Date Completed: 11/23/16
Tested By: Justin Bisson

Sieve Designation	Percent Passing	Aim	Specification	
			Range (%)	
2"	100	100	93	100
1½"	100	100	93	100
1"	100	100	93	100
¾"	99	100	93	100
½"	82	85	78	92
⅜"	71	72	65	79
No. 4	46	49	42	56
No. 8	35	37	32	42
No. 16	26	28	23	33
No. 30	17	18	14	22
No. 50	11	10	7	13
No. 100	7	6	3	9
No. 200	4.5	4.1	1.1	7.1
Asphalt Content (%)	4.67	4.80	4.30	5.30
Theoretical Maximum Density	2.550			

Maine DOT Method: D

Comments: An aggregate, additive or modifier calibration was not performed on this mix sample

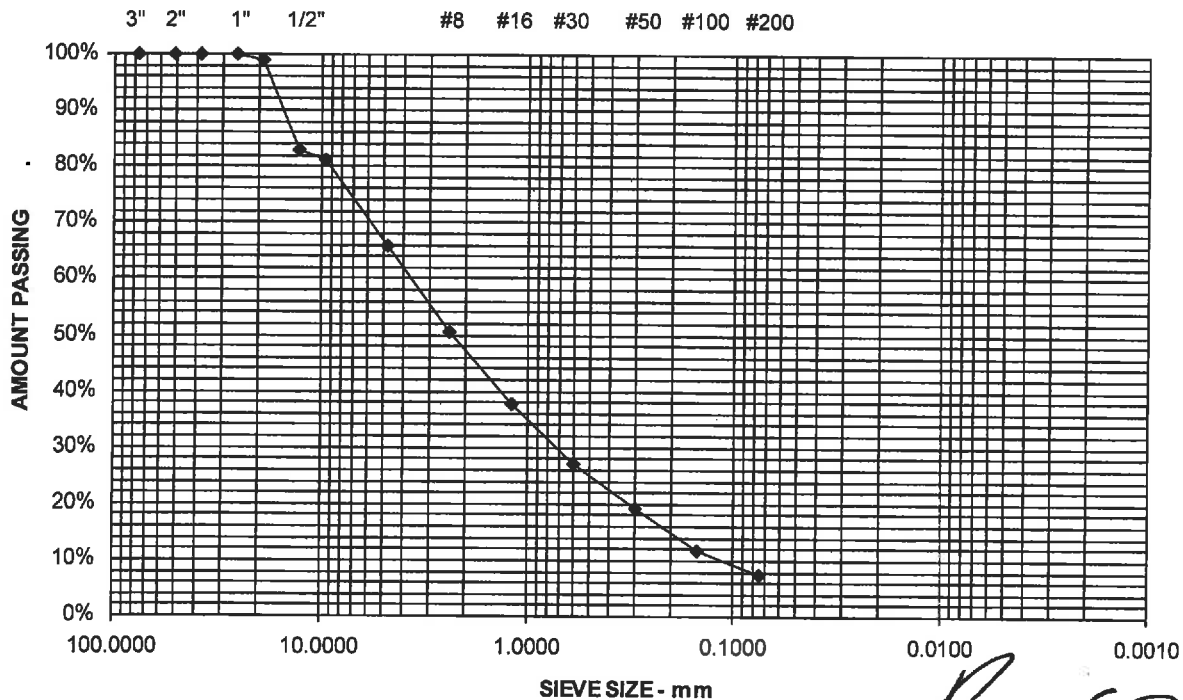
Reviewed By: 

Project Name PORTLAND ME - PORTLAND RETIREMENT RESIDENCE -
CONSTRUCTION MATERIALS TESTING AND SPEICAL INSPECTIONS
Client COLSON & COLSON GENERAL CONTRACTORS, INC.
Material Type FILTER SAND
Material Source ON SITE MIX

Project Number 14-1188.3
Lab ID 21861G
Date Received 11/22/2016
Date Completed 11/29/2016
Tested By JUSTIN BISSON

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>SPECIFICATIONS (%)</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	99	
12.5 mm	1/2"	83	
9.5 mm	3/8"	81	
4.75 mm	No. 4	66	
2.36 mm	No. 8	51	
1.18 mm	No. 16	38	
600 μm	No. 30	27	
300 μm	No. 50	19	
150 μm	No. 100	12	
75 μm	No. 200	7.4	8.0 - 10.0 †

† SAMPLE DOES NOT MEET SPECIFICATION



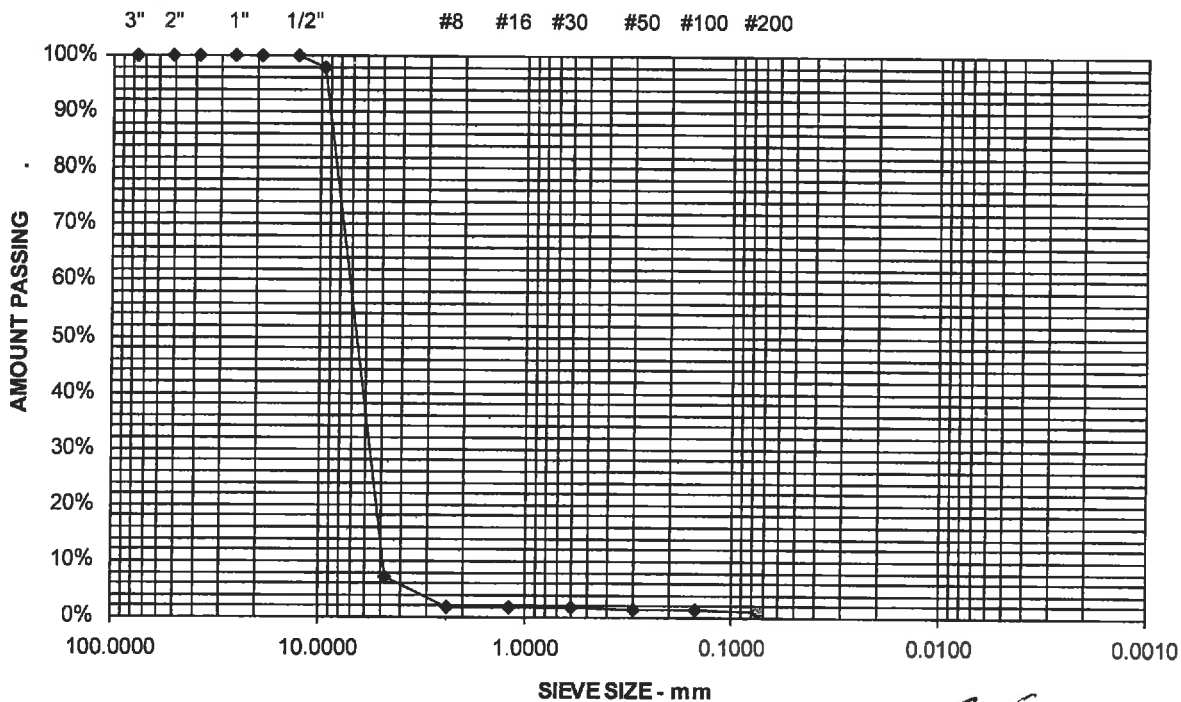
Comments

Roger E. Domingo
Roger E. Domingo
KDC

Project Name PORTLAND ME - PORTLAND RETIREMENT RESIDENCE -
CONSTRUCTION MATERIALS TESTING AND SPEICAL INSPECTIONS
Client COLSON & COLSON GENERAL CONTRACTORS, INC.
Material Type TRANSITION GRAVEL
Material Source PIKE INDUSTRIES

Project Number 14-1188.3
Lab ID 21862G
Date Received 11/22/2016
Date Completed 11/30/2016
Tested By JUSTIN BISSON

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>SPECIFICATIONS (%)</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	98	
4.75 mm	No. 4	7	
2.36 mm	No. 8	2	
1.18 mm	No. 16	2	
600 μm	No. 30	2	
300 μm	No. 50	2	
150 μm	No. 100	1	
75 μm	No. 200	1.1	



Comments

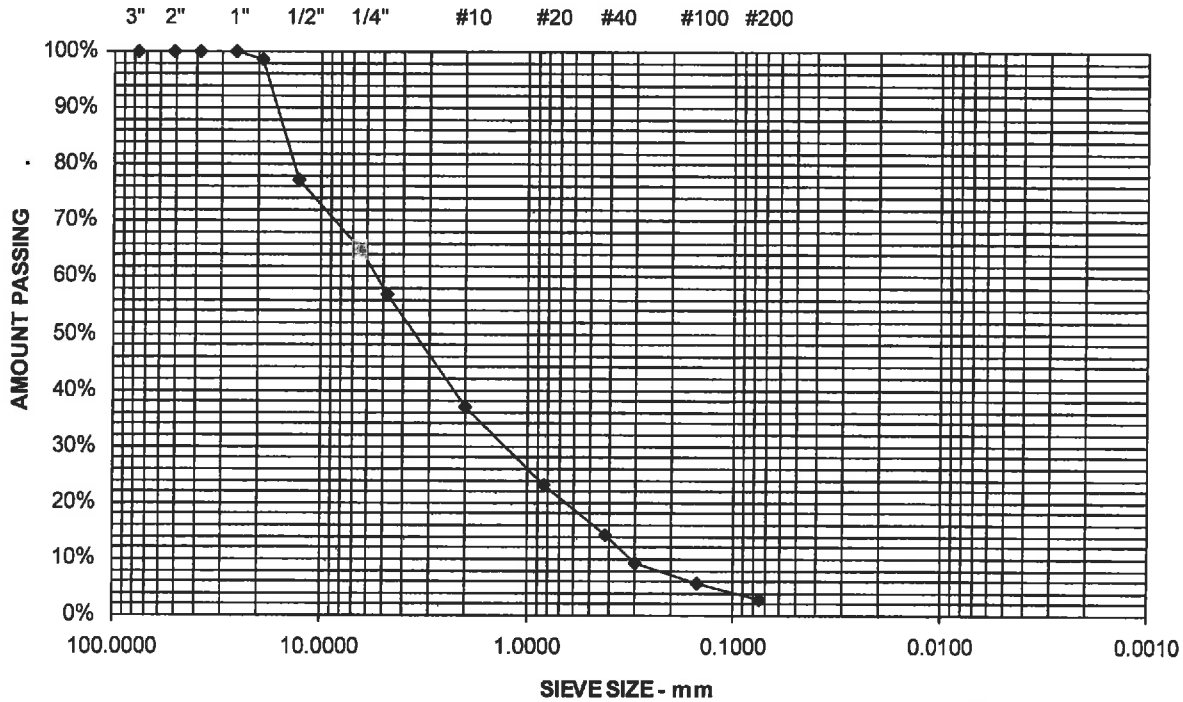

Roger E. Domingo

Project Name PORTLAND ME - PORTLAND RETIREMENT RESIDENCE -
CONSTRUCTION MATERIALS TESTING AND SPEICAL INSPECTIONS
Client COLSON & COLSON GENERAL CONTRACTORS, INC.
Material Type UNDERDRAIN SAND
Material Source PIKE - POLAND

Project Number 14-1188.3
Lab ID 21885G
Date Received 12/1/2016
Date Completed 12/5/2016
Tested By JUSTIN BISSON

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>MDOT 703.22 TYPE B UNDERDRAIN SAND</u> <u>SPECIFICATIONS (%)</u>
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	95 - 100
19.0 mm	3/4"	99	
12.5 mm	1/2"	77	75 - 100
6.3 mm	1/4"	65	
4.75 mm	No. 4	57	50 - 100
2.00 mm	No. 10	37	
850 μm	No. 20	23	15 - 80
425 μm	No. 40	14	
300 μm	No. 50	9	0 - 15
150 μm	No. 100	6	
75 μm	No. 200	2.8	0.0 - 5.0

SAMPLE MEETS SPECIFICATION



Comments

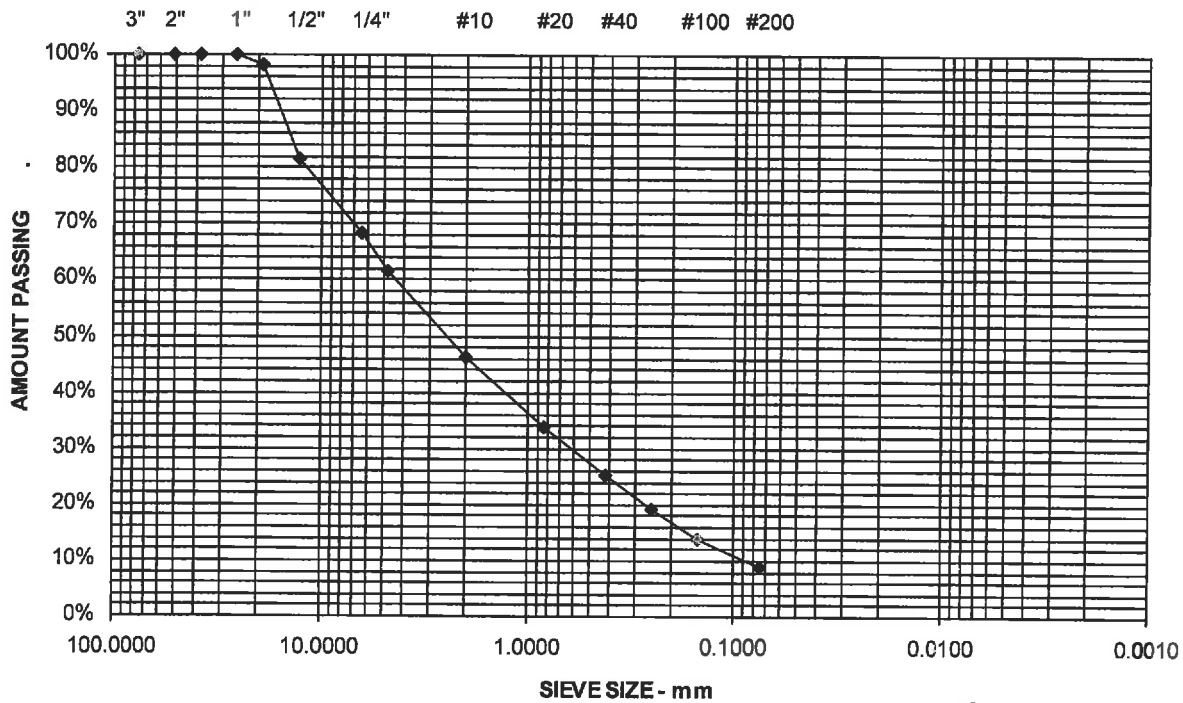
R. Domingo
Roger E. Domingo

Project Name PORTLAND ME - PORTLAND RETIREMENT RESIDENCE -
CONSTRUCTION MATERIALS TESTING AND SPEICAL INSPECTIONS
Client COLSON & COLSON GENERAL CONTRACTORS, INC.
Material Type SAND FILTER
Material Source ON SITE MIX

Project Number 14-1188.3
Lab ID 21893G
Date Received 12/5/2016
Date Completed 12/6/2016
Tested By JUSTIN BISSON

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>SPECIFICATIONS (%)</u>
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	98	
12.5 mm	1/2"	81	
6.3 mm	1/4"	68	
4.75 mm	No. 4	62	
2.00 mm	No. 10	46	
850 μm	No. 20	34	
425 μm	No. 40	25	
250 μm	No. 60	19	
150 μm	No. 100	14	
75 μm	No. 200	8.7	8.0 - 10.0

SAMPLE MEETS SPECIFICATION



Comments


Roger E. Domingo

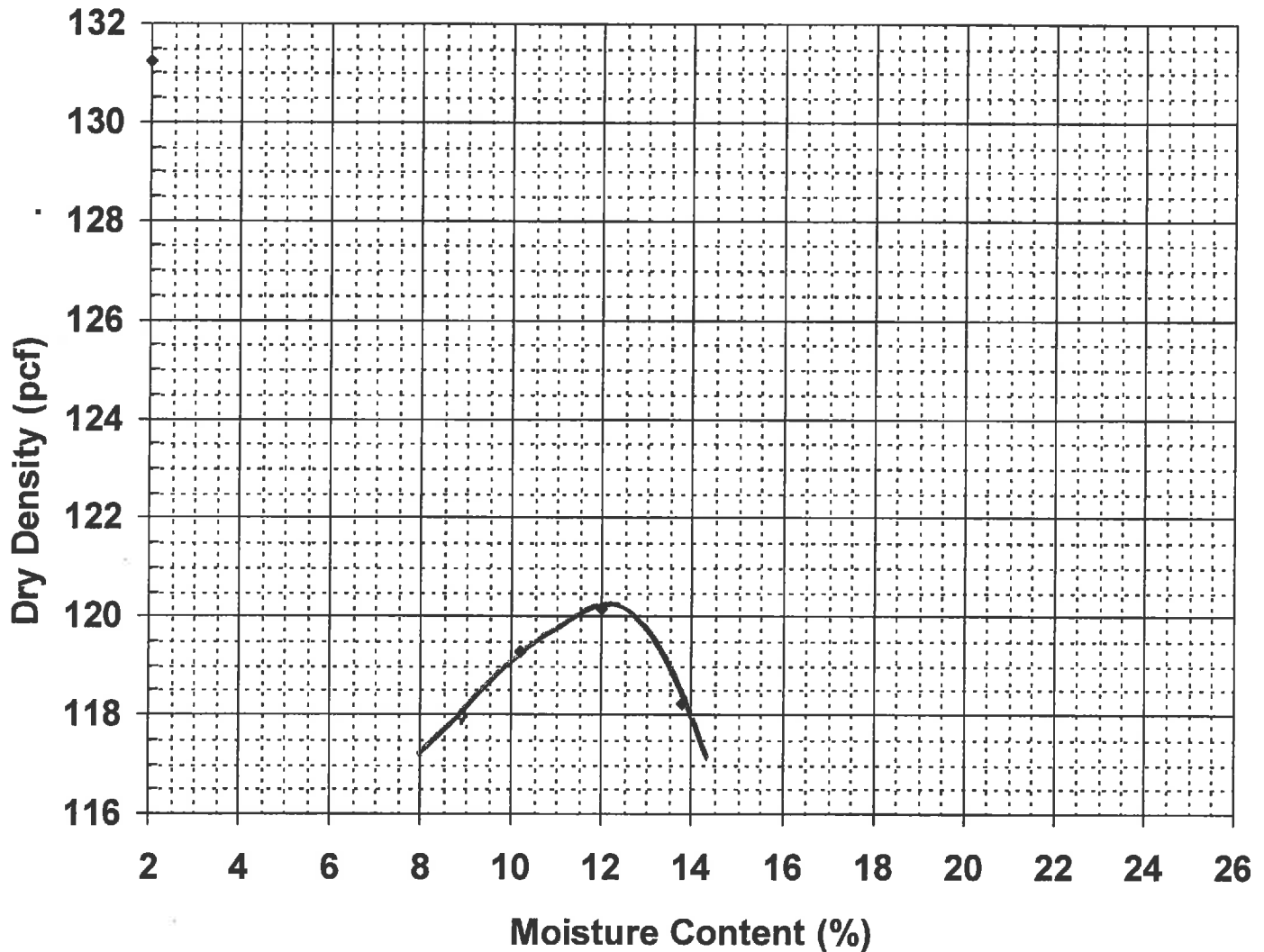
Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name PORTLAND ME - PORTLAND RETIREMENT RESIDENCE -
CONSTRUCTION MATERIALS TESTING AND SPEICAL
Client COLSON & COLSON GENERAL CONTRACTORS, INC.
Material Type SAND FILTER
Material Source ON SITE MIX

Project Number 14-1188.3
Lab ID 21893G
Date Received 12/5/2016
Date Completed 12/9/2016
Tested By PAUL SHAFFER

Moisture-Density Relationship Curve



Maximum Dry Density (pcf) 120.3
Optimum Moisture Content (%) 12.3
Percent Oversized 1.7%

Corrected Dry Density (pcf) **120.8**
Corrected Moisture Content (%) **12.1**

Comments


Roger E. Domingo

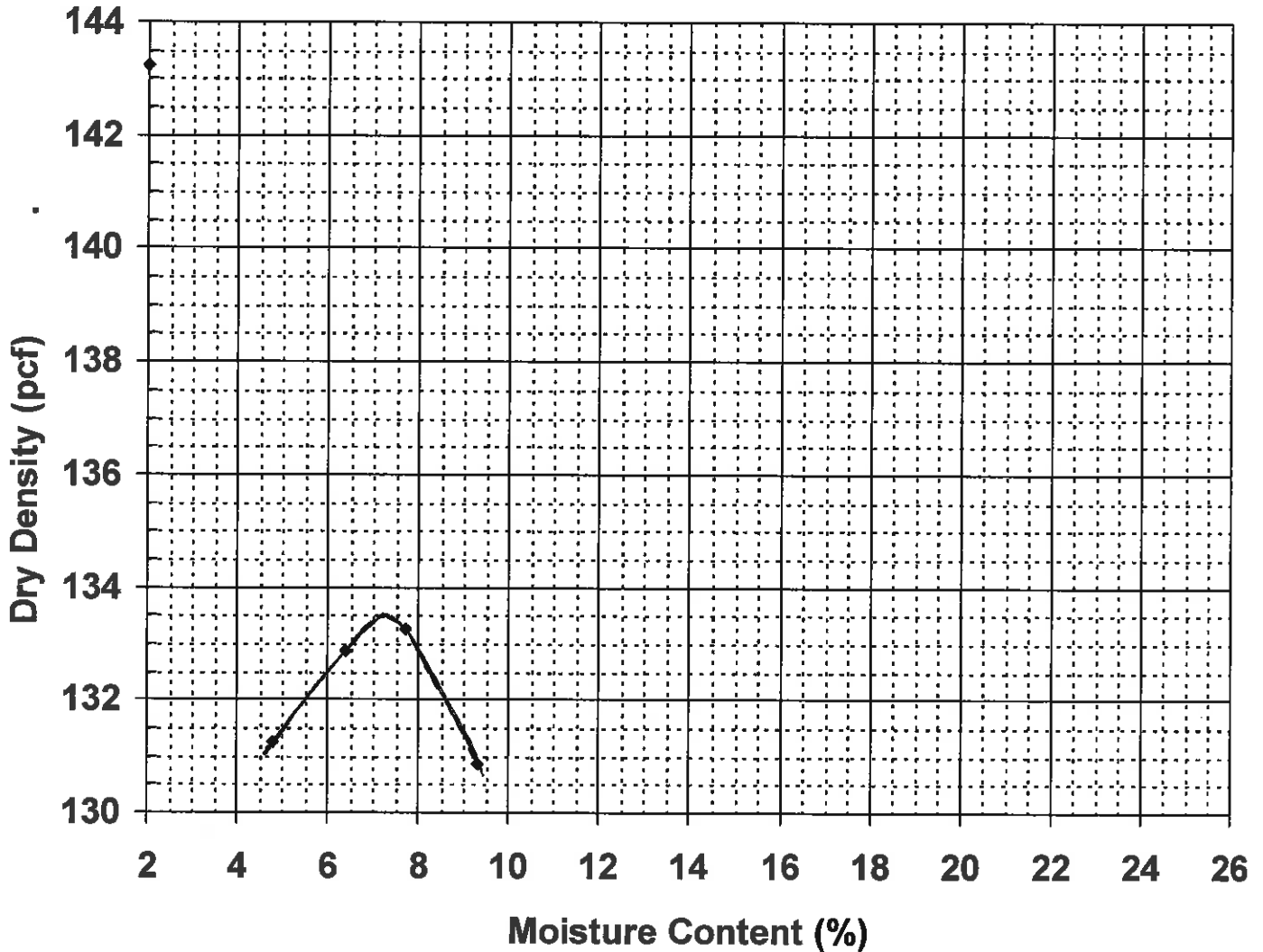
Report of Moisture-Density

Method **ASTM D-1557 MODIFIED** Procedure **C**

Project Name **PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION MATERIALS TESTING AND SPEICAL**
 Client **COLSON & COLSON GENERAL CONTRACTORS, INC.**
 Material Type **1 1/2" CRUSHED GRAVEL**
 Material Source **PIKE POLAND**

Project Number **14-1188.3**
 Lab ID **23990G**
 Date Received **7/11/2018**
 Date Completed **7/11/2018**
 Tested By **JACK LABBE**

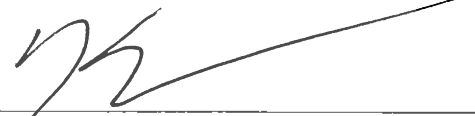
Moisture-Density Relationship Curve



Maximum Dry Density (pcf) **133.5**
 Optimum Moisture Content (%) **7.1**
 Percent Oversized **30.0%**

Corrected Dry Density (pcf) **139.8**
Corrected Moisture Content (%) **5.6**

Comments


 Roger E. Domingo



Report of Asphalt Content and Gradation by Ignition Extraction

ASTM D6307-10, AASHTO T 308

Project Name: Portland Retirement Residence
Project Location: Portland, ME
Client: Colson & Colson General Contractors, INC.
Material Supplier: Pike Westbrook, ME
Mix Type / Design ID: 19 mm
Course Description: Base

Project Number: 14-1188.3
Lab ID: 24024G
Date Received: 07/18/18
Date Completed: 07/28/18
Tested By: P. Phelan/A. Carr

Asphalt Content (%) 5.12%

Sieve Designation	Percent Passing
2"	100
1½"	100
1"	100
¾"	97
½"	88
⅜"	80
No. 4	60
No. 8	48
No. 16	36
No. 30	24
No. 50	14
No. 100	8
No. 200	5.0

Theoretical Maximum Density 2.571

Comments: Asphalt Content was tested from the combination of 3 cores taken on the base pavement course. No correction factor was used for asphalt content.

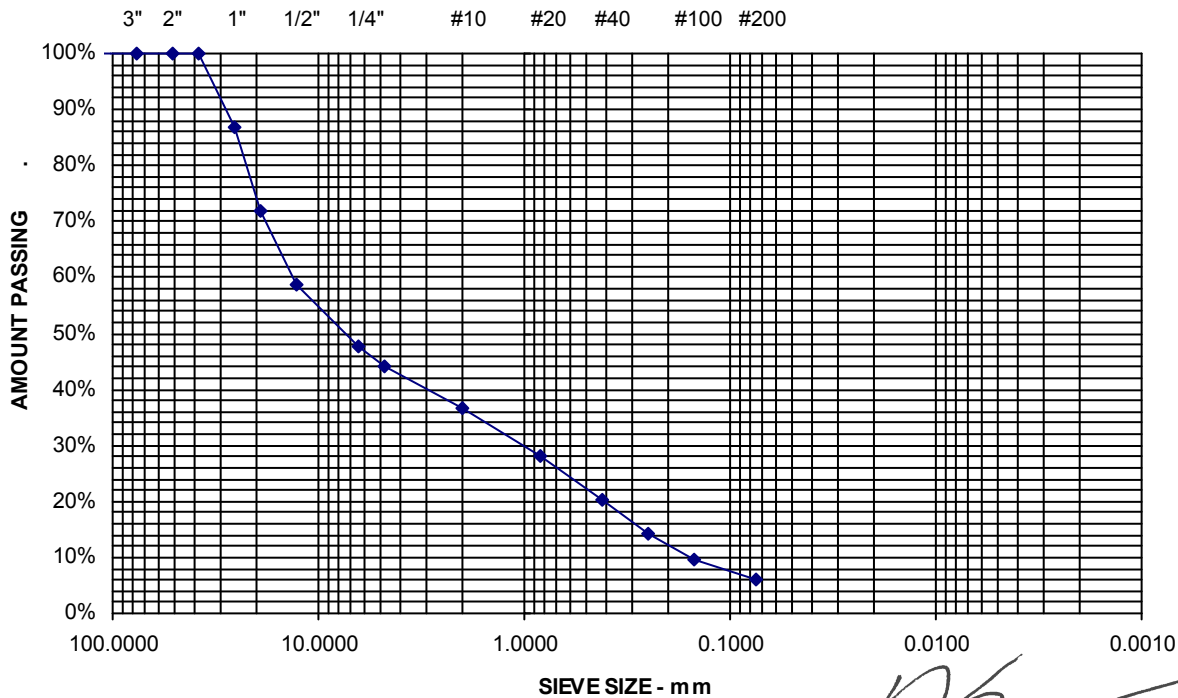
Reviewed By: _____

Project Name PORTLAND ME - PORTLAND RETIREMENT RESIDENCE -
CONSTRUCTION MATERIALS TESTING AND SPEICAL
Client COLSON & COLSON GENERAL CONTRACTORS, INC.
Material Type 1 1/2" CRUSHED GRAVEL
Material Source SHAW BROTHERS, BRICKYARD

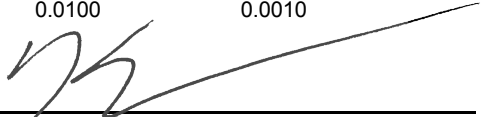
Project Number 14-1188.3
Lab ID 24398G
Date Received 9/25/2018
Date Completed 9/26/2018
Tested By PAUL SHAFFER

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>2015 MDOT 703.06 TYPE A</u> <u>SPECIFICATIONS (%)</u>
150 mm	6"	100	
125 mm	5"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	100
38.1 mm	1-1/2"	100	
25.0 mm	1"	87	
19.0 mm	3/4"	72	
12.5 mm	1/2"	59	45 - 70
6.3 mm	1/4"	48	30 - 55
4.75 mm	No. 4	44	
2.00 mm	No. 10	37	
850 μm	No. 20	28	
425 μm	No. 40	20	0 - 20
250 μm	No. 60	14	
150 μm	No. 100	10	
75 μm	No. 200	6.0	0.0 - 6.0

SAMPLE MEETS SPECIFICATION



Comments


Roger E. Domingo

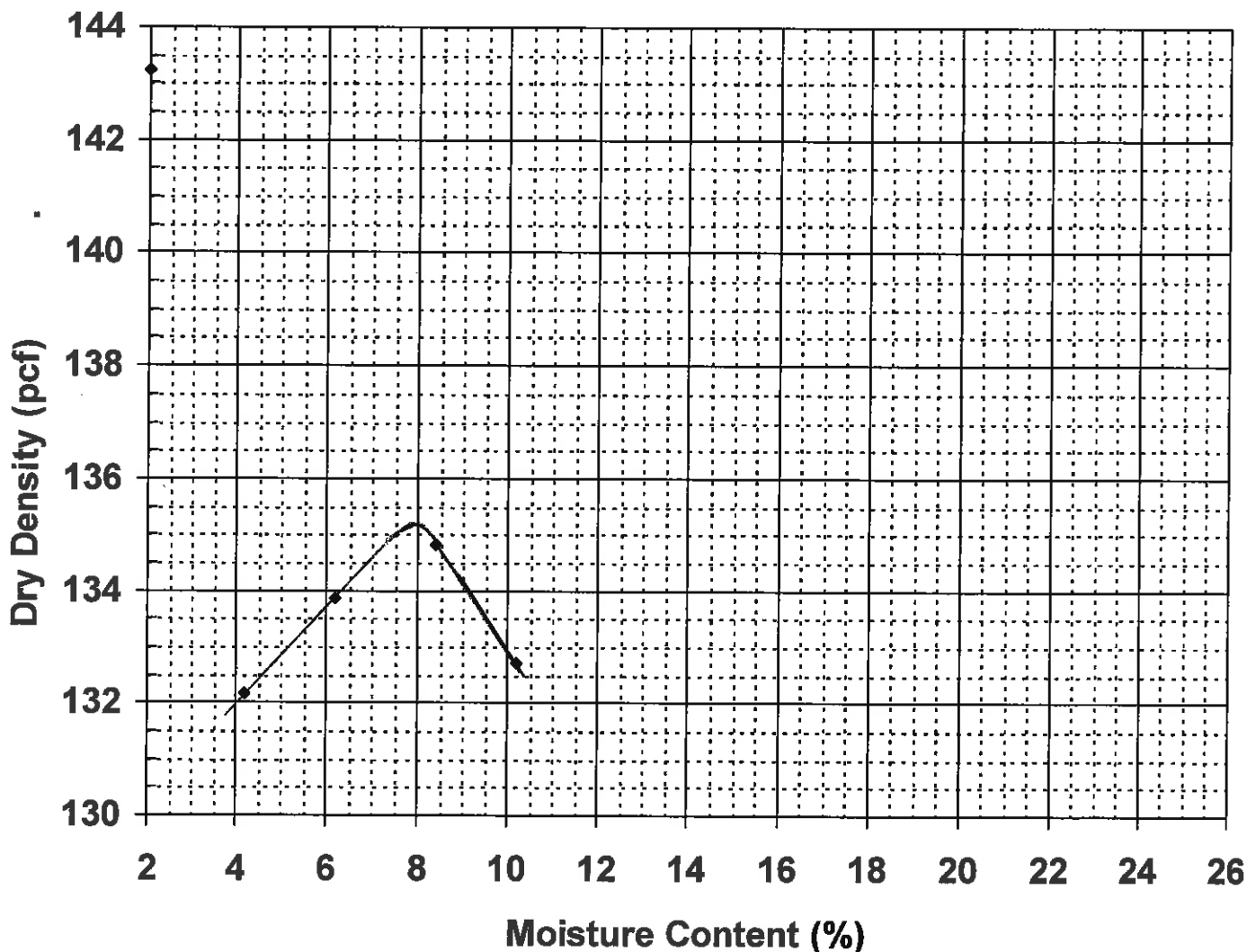
Report of Moisture-Density

Method ASTM D-1557 MODIFIED Procedure C

Project Name PORTLAND ME - PORTLAND RETIREMENT RESIDENCE -
CONSTRUCTION MATERIALS TESTING AND SPEICAL
Client COLSON & COLSON GENERAL CONTRACTORS, INC.
Material Type 1 1/2" CRUSHED GRAVEL
Material Source SHAW BROTHERS, BRICKYARD

Project Number 14-1188.3
Lab ID 24398G
Date Received 9/25/2018
Date Completed 9/26/2018
Tested By PAUL SHAFFER

Moisture-Density Relationship Curve



Maximum Dry Density (pcf) 135.7
Optimum Moisture Content (%) 8
Percent Oversized 25.1%

Corrected Dry Density (pcf) **140.5**
Corrected Moisture Content (%) **6.5**

Comments


 Roger E. Domingo



Concrete Construction Observation Report

Project Name/Location:	Portland Retirement Residence/Portland Maine	Project No:	14-1188.3
Client/Client's Rep.:	Colson & Colson/Craig Lewis	Date:	3-29-17
Concrete Contractor:	Keeley	Sheet:	1 of 1
Placement Location:	Both elevator pit base slabs	S.W.COLE Rep.:	A. Carr
Weather:	Overcast and low 40's	On Site:	8:30am-10:15am

Pre Placement Observations	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	#4 @ 16 o.c E.W.
Splicing (type, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	24"
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Bricks
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Clean
Embedments and anchor bolts installed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	At sump
Soil subgrade prepared in accordance with project specifications	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
Lenity Architecture Core Foundation Plan	9-22-15	S1.1	1	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Lenity Architecture Foundation Details	9-22-15	S2.2	1	A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	A 775 Epoxy <input type="checkbox"/>

Concrete Placement Observations	In Compliance		N/O	Comments
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000 psi w/air
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Tailgate
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Mechanically
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

Field Testing of Concrete Performed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Loads:	2	Yards:	13.0
*Cylinder Set Number: 855-28	←*refer to associated concrete test report					

Non-Conformance Items Observed (person notified)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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Notes: S.W. Cole representative was on site as requested for rebar observations and concrete field testing. Reinforcing observed appeared consistent with detail 8 on S2.2 including 4" PVC water stop around the pit walls and vapor barrier. A set of four cylinders were taken at the midpoint of load # to be brought back for laboratory testing in regard to the design strength. All test results were given onsite verbally to Craig Lewis (Colson & Colson).

Attachments: None

Reviewed By:

The S.W.COLE field representative is on-site at the request of our client to provide construction materials testing and to observe and document construction activities. The contractor has sole responsibility for schedule, site safety, methods, completeness and quality control.



Concrete Construction Observation Report

Project Name/Location:	Portland Retirement Residence/Portland Maine	Project No:	14-1188.3
Client/Client's Rep.:	Colson & Colson/Craig Lewis	Date:	3-31-17
Concrete Contractor:	Keeley	Sheet:	1 of 1
Placement Location:	Elevator 1 Walls	S.W.COLE Rep.:	A. Carr
Weather:	Overcast and low 40's	On Site:	9:30am-10:30am

<i>Pre Placement Observations</i>	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	2 #4 @ T&B cont.
Splicing (type, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	24"
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Wires
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Clean
Embedments and anchor bolts installed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Soil subgrade prepared in accordance with project specifications	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
Lenity Architecture Core Foundation Plan	9-22-15	S1.1	1	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Lenity Architecture Structural Specifications	9-22-15	S2.1	1	A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
Lenity Architecture Foundation Details	9-22-15	S2.2	1	A 617 <input type="checkbox"/>	A 775 Epoxy <input type="checkbox"/>
				A 706 <input type="checkbox"/>	

<i>Concrete Placement Observations</i>	In Compliance		N/O	Comments
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000 psi w/air
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Tailgate
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Mechanically
Even layering around openings and embedments	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

Field Testing of Concrete Performed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Loads:	1	Yards:	7.0
*Cylinder Set Number: 855-29	←*refer to associated concrete test report					

Non-Conformance Items Observed (person notified)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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Notes: S.W. Cole representative was on site as requested for rebar observations and concrete field testing. Reinforcing observed appeared consistent with detail 8 on S2.2. A set of four cylinders were taken at the midpoint of load #1 to be brought back for laboratory testing in regard to the design strength. All test results were given onsite verbally to Craig Lewis (Colson & Colson).

Attachments: Photos

Reviewed By:

The S.W.COLE field representative is on-site at the request of our client to provide construction materials testing and to observe and document construction activities. The contractor has sole responsibility for schedule, site safety, methods, completeness and quality control.





Concrete Construction Observation Report

Project Name/Location:	Portland Retirement Residence/Portland Maine	Project No:	14-1188.3
Client/Client's Rep.:	Colson & Colson/Craig Lewis	Date:	5-8-17
Concrete Contractor:	Keeley	Sheet:	1 of 1
Placement Location:	Interior footing: Room 107-119	S.W.COLE Rep.:	J. Moore
Weather:	Cloudy 40's	On Site:	12:30pm- 2:30pm

Pre Placement Observations	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3 #4 con. #4@48" trans
Splicing (type, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	2 foot
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Brick
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	See notes
Embedments and anchor bolts installed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A
Soil subgrade prepared in accordance with project specifications	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
Lenity Architecture – B wing Foundation Plan	7/18/16	S1.2		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Lenity Architecture – Structural notes	7/18/16	S2.1		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
Lenity Architecture – Core foundation plan	7/18/16	S1.1		A 617 <input type="checkbox"/>	A 775 Epoxy <input type="checkbox"/>
				A 706 <input type="checkbox"/>	

Concrete Placement Observations	In Compliance		N/O	Comments
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000psi w/air
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Pump truck
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Mechanical
Even layering around openings and embedments	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	Not onsite

Field Testing of Concrete Performed Yes No Loads: 3 Yards: 30

***Cylinder Set Number:** 855-30 ←*refer to associated concrete test report

Non-Conformance Items Observed (person notified) Yes No

Notes:
 S.W.COLE was onsite as scheduled to observe reinforcing and to do field testing of concrete. All reinforcing observed seemed consistent with above referenced project documents. Due to rain prior to the concrete placement, a small amount of water puddled up on the vapor barrier prior to the concrete placement. The concrete was then used to force the water out. Auburn concrete supplied the concrete containing a mid-range water reducer, and air entrainment added during the batching process. One mid load sample was obtained from load 1 and all testing from that sample indicated concrete was being placed in compliance. One set of four cylinders were cast for laboratory compressive strength testing. All results were verbally reported to the supervisor onsite from Colson & Colson.

N/O=Not Observed

Attachments: Photos

Reviewed By: RED *Roger E. Downing*

The S.W.COLE field representative is on-site at the request of our client to provide construction materials testing and to observe and document construction activities. The contractor has sole responsibility for schedule, site safety, methods, completeness and quality control.





Concrete Construction Observation Report

Project Name/Location:	Portland Retirement Residence/Portland Maine	Project No:	14-1188.3
Client/Client's Rep.:	Colson & Colson/Craig Lewis	Date:	5-9-17
Concrete Contractor:	Keeley	Sheet:	1 of 1
Placement Location:	Interior footing: Completion of B Wing	S.W.COLE Rep.:	N. McArthur
Weather:	Overcast 50's	On Site:	1:00pm- 2:30pm

<i>Pre Placement Observations</i>	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3 #4 con. #4@48" trans
Splicing (type, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	2 foot
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Brick
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	See notes
Embedments and anchor bolts installed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	N/A
Soil subgrade prepared in accordance with project specifications	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
Lenity Architecture – B wing Foundation Plan	7/18/16	S1.2		A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Lenity Architecture – Structural notes	7/18/16	S2.1		A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
Lenity Architecture – Core foundation plan	7/18/16	S1.1		A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	A 775 Epoxy <input type="checkbox"/>

<i>Concrete Placement Observations</i>	In Compliance		N/O	Comments
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000psi w/air
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Pump truck
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Mechanical
Even layering around openings and embedments	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	Not onsite

Field Testing of Concrete Performed Yes No Loads: 4 Yards: 40
 *Cylinder Set Number: 855-31 ←*refer to associated concrete test report

Non-Conformance Items Observed (person notified) Yes No

Notes:
 S.W.COLE was onsite as scheduled for reinforcement observations and concrete field testing. Due to early arrival of concrete onsite, reinforcement observations were fairly limited. Reinforcement observed appeared consistent with the above referenced documents with exception of longitudinal splice length. The discrepancy was made apparent to the project manager and corrected as the placement took way. Concrete was a 3,000 psi mix containing 3/4" maximum size aggregate, air entrainment admixture, and mid-range water reducer. Concrete field test results appeared consistent with project specifications. All results were reported verbally to the project manager with Colson & Colson.

N/O=Not Observed

Attachments: Photos

Reviewed By: *Roger E. Downing*

The S.W.COLE field representative is on-site at the request of our client to provide construction materials testing and to observe and document construction activities. The contractor has sole responsibility for schedule, site safety, methods, completeness and quality control.





Concrete Construction Observation Report

Project Name/Location:	Portland Retirement Residence/Portland Maine	Project No:	14-1188.3
Client/Client's Rep.:	Colson & Colson/Craig Lewis	Date:	6-15-17
Concrete Contractor:	Keeley Construction	Sheet:	1 of 1
Placement Location:	Interior: Part of A-wing and all of C wing slab on grade, footings and piers.	S.W.COLE Rep.:	A. Carr
Weather:	Clear and in the 70's	On Site:	6:45am-1:15pm

Pre Placement Observations	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	(3) #4 bot 48" o.c.
Splicing (type, overlap)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	24"
Stability (wiring, chairs, and spacers)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Bricks w/rebar
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Clean
Embedments and anchor bolts installed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Soil subgrade prepared in accordance with project specifications	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
Lenity Architecture-Wing C- Foundation Plan	8/28/15	S1.3	5	A 615 <input checked="" type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input checked="" type="checkbox"/>
Lenity Architecture- Foundation Detail	8/28/17	S2.2	5	A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	A 775 Epoxy <input type="checkbox"/>

Concrete Placement Observations	In Compliance		N/O	Comments
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000psi non-air w/Fiber
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Pump/Tailgate
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Mechanically
Even layering around openings and embedments	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

Field Testing of Concrete Performed Yes No Loads: 21 Yards: 210.0

***Cylinder Set Number:** 855-38, 39, 40, 41 ←*refer to associated concrete test report

Non-Conformance Items Observed (person notified) Yes No

Notes: S.W. Cole representative was requested to be onsite for rebar observations and field testing of concrete for part of A-wing and all of C-wing. Keely construction subcontracted AP Concrete to place the interior slab on grade along with the interior wall footings and piers. The method of placement used was a pump truck and tailgating. The concrete for the slab was placed on a vapor barrier. According to the plans and specifications, rebar observations included piers with varying dimensions according to the pier schedule. The footings included (3) #4 rebar bottom. All test results and rebar observations were reported onsite verbally to John Keeley (Keeley) and Craig Lewis (Colson & Colson). Rebar observations appeared to be in accordance with the plans and details. Four sets of concrete cylinders were made in the field. The cylinders were brought back to the laboratory for compressive testing, in regard to the design strength of 3000 psi non-air with fiber reinforcing. As confirmed by John Keeley and Craig Lewis verbally on the jobsite, the last two loads was foundation mix with no fiber reinforcing and placed for interior footings and piers.

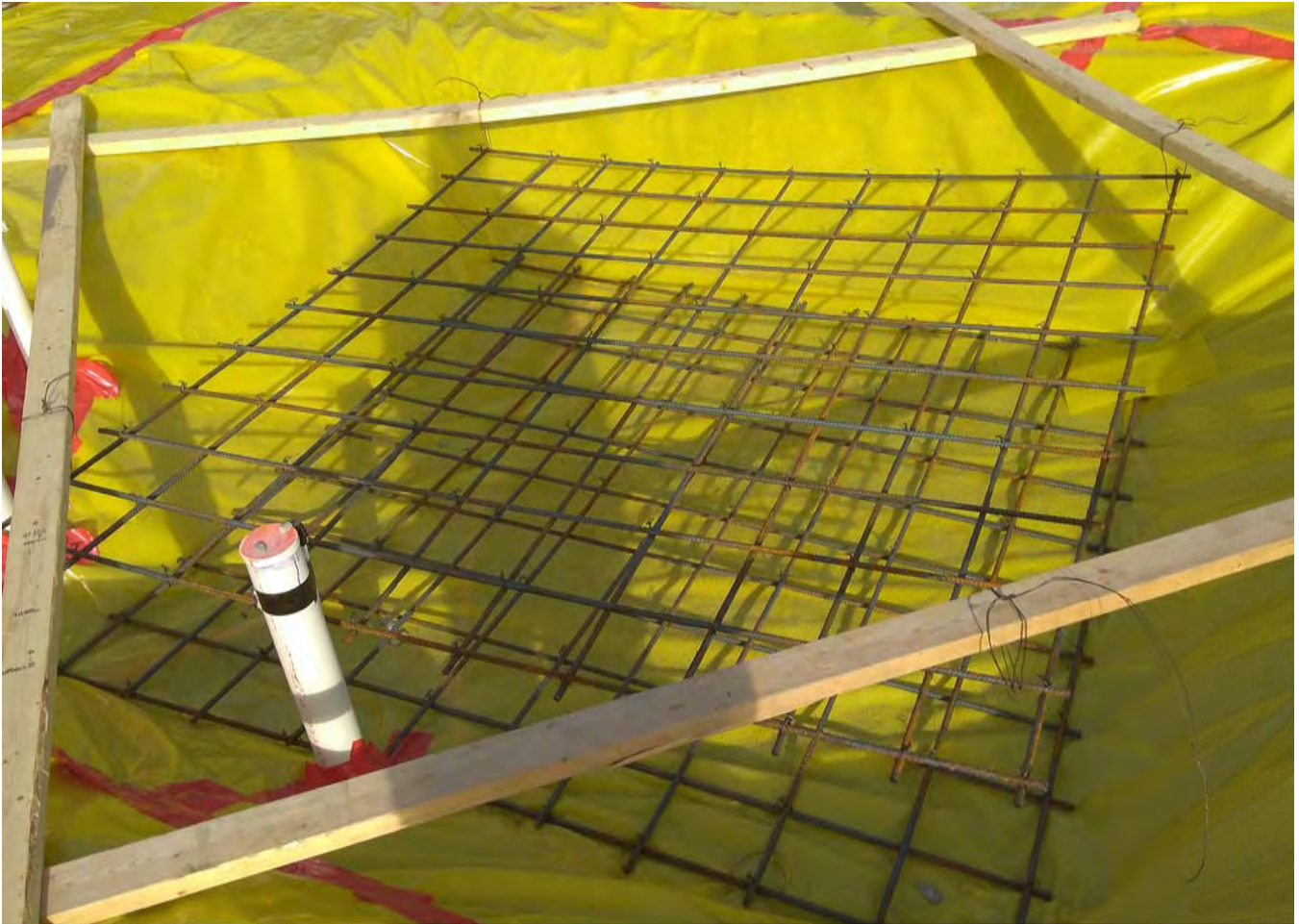
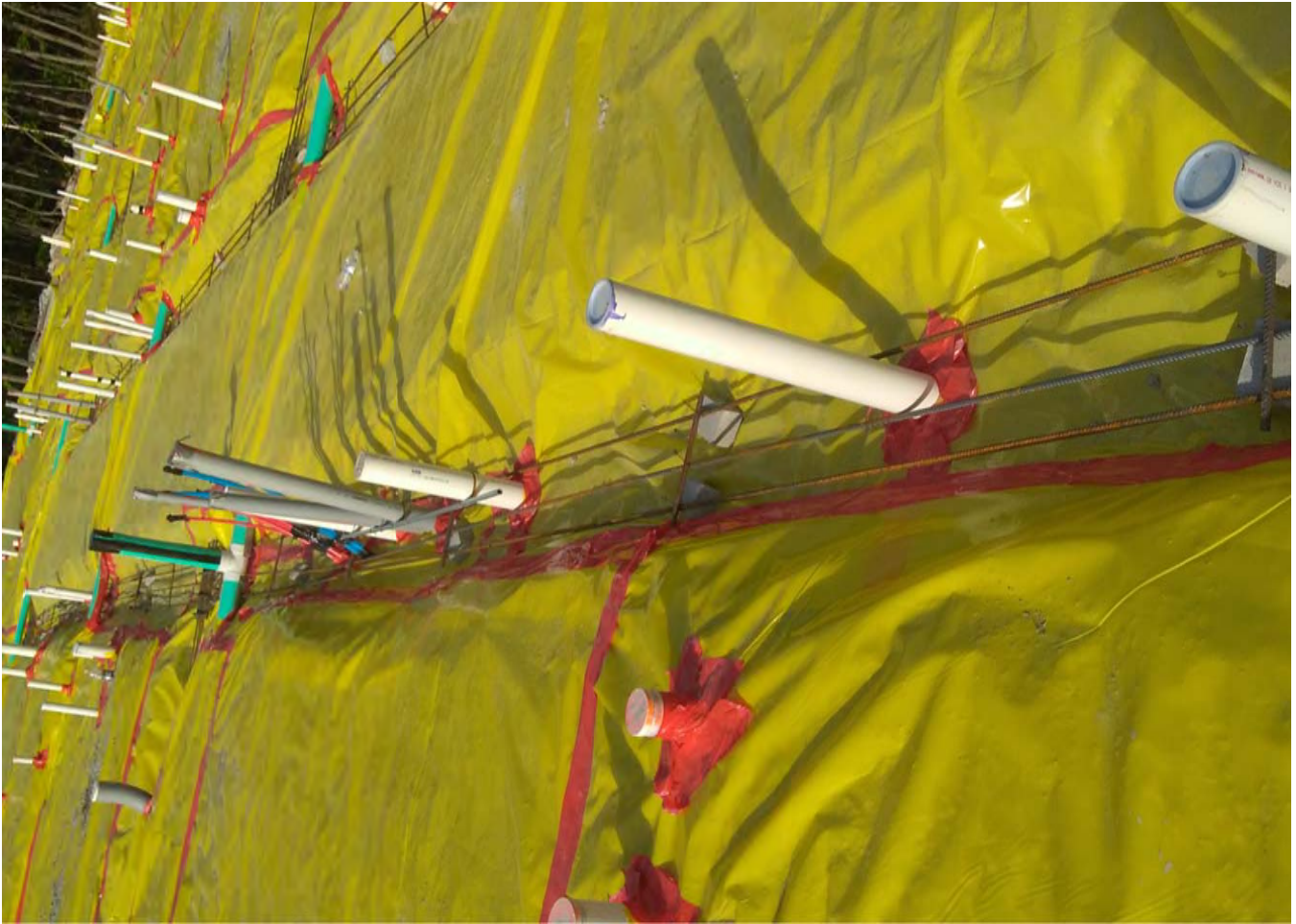
N/O=Not Observed

Attachments: Photos

Reviewed By: *Regis E. Donney*

The S.W.COLE field representative is on-site at the request of our client to provide construction materials testing and to observe and document construction activities. The contractor has sole responsibility for schedule, site safety, methods, completeness and quality control.







Concrete Construction Observation Report

Project Name/Location:	Portland Retirement Residence/Portland Maine	Project No:	14-1188.3
Client/Client's Rep.:	Colson & Colson/Craig Lewis	Date:	10-10-17
Concrete Contractor:	A. Phinney	Sheet:	1 of 1
Placement Location:	Interior: Van Garage Slab.	S.W.COLE Rep.:	A. Boyce
Weather:	Clear 66°F	On Site:	7:15am-8:45pm

<i>Pre Placement Observations</i>	In Compliance		N/O	Comments
Bar size and location (diameter, length, bend and coverage)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Splicing (type, overlap)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Stability (wiring, chairs, and spacers)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Reinforcement conditions (cleanliness, temperature etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Embedments and anchor bolts installed	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Soil subgrade prepared in accordance with project specifications	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

Referenced Drawings	Date	Page(s)	Rev.	ASTM	GRADE
				A 615 <input type="checkbox"/>	40 <input type="checkbox"/> 50 <input type="checkbox"/> 60 <input type="checkbox"/>
				A 616 <input type="checkbox"/>	75 <input type="checkbox"/>
				A 617 <input type="checkbox"/>	
				A 706 <input type="checkbox"/>	A 775 Epoxy <input type="checkbox"/>

<i>Concrete Placement Observations</i>	In Compliance		N/O	Comments
Required mix used	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	3000psi non-air w/Fiber
Concrete properly conveyed to all areas of placement	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Tailgate
Internal vibration / consolidation of concrete	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>	Mechanically
Even layering around openings and embedments	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	
Post placement observations (finishing, curing, etc.)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	<input checked="" type="checkbox"/>	

Field Testing of Concrete Performed	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Loads:	2	Yards:	22
*Cylinder Set Number: 855 - 46	←*refer to associated concrete test report					

Non-Conformance Items Observed (person notified) Yes No

Notes: S.W. Cole representative was requested to be onsite for field testing of concrete. Keely construction subcontracted AP Concrete to place the interior slab on grade. The concrete for the slab was placed on a vapor barrier. One set of test specimens were cast before S.W. COLE's departure.

N/O=Not Observed

Attachments: NONE

Reviewed By:

The S.W.COLE field representative is on-site at the request of our client to provide construction materials testing and to observe and document construction activities. The contractor has sole responsibility for schedule, site safety, methods, completeness and quality control.

CONSTRUCTION OBSERVATION REPORT

Project: Portland Retirement Residence

Client: Colson & Colson

Client's Rep.: Craig Lewis

S.W.Cole Project No.: 14-1188.3

Date: 2/22/2018

Weather: Overcast, 40
(building heated)

Work in Progress: Hold-down installation A and C-Wings.

Observations, Discussions, Recommendations:

As requested by Colson & Colson, we made a site visit to observe hold-down installation procedures in the current work area. On site we met with Colson & Colson (Craig) and Colt Builders foreman, John Whitfield.

Periodic observations on hold-downs in B-Wing were made during a previous site visit and today's visit was scheduled to make general observations of installations in the remaining two wings. Prior to our arrival, Colt Builders had drilled in preparation for the required "11A" type anchors. Colt Builders had Red Head A7+ anchoring adhesive for this round of installations with allowable temperature ranges appropriate for the planned installations. Holes were drilled using carbide hammer drill bits, oversized 1/8 inch as recommended by the adhesive manufacturer. Installation techniques included cleaning with compressed air and brushes three times prior to filling drill-holes from bottom up using the supplied mixing nozzles and slowing inserting the threaded rods using a spinning motion. Embedment depths checked were measured to exceed the specified embedment depths in the available project documents. Anchor installations observed while on site appeared consistent with our understanding of the project requirements and epoxy manufacturers guidelines.

At six locations in the vicinity of corridor 181 holes for the detailed 11A's had not been drilled yet. Also while on site we observed several of the type "11" and type "13" anchors typically installed during foundation work had been removed for framing, still pending installation or installed with insufficient embedment depths. We understand most of the larger anchors pending installation will have shallower embedments given the pads are interior, however, several locations along the exterior wall will likely be difficult to install as designed from current grades. Based on our conversations with Craig, we understand the Engineer of Record will be consulted regarding an acceptable alternate installation detail.

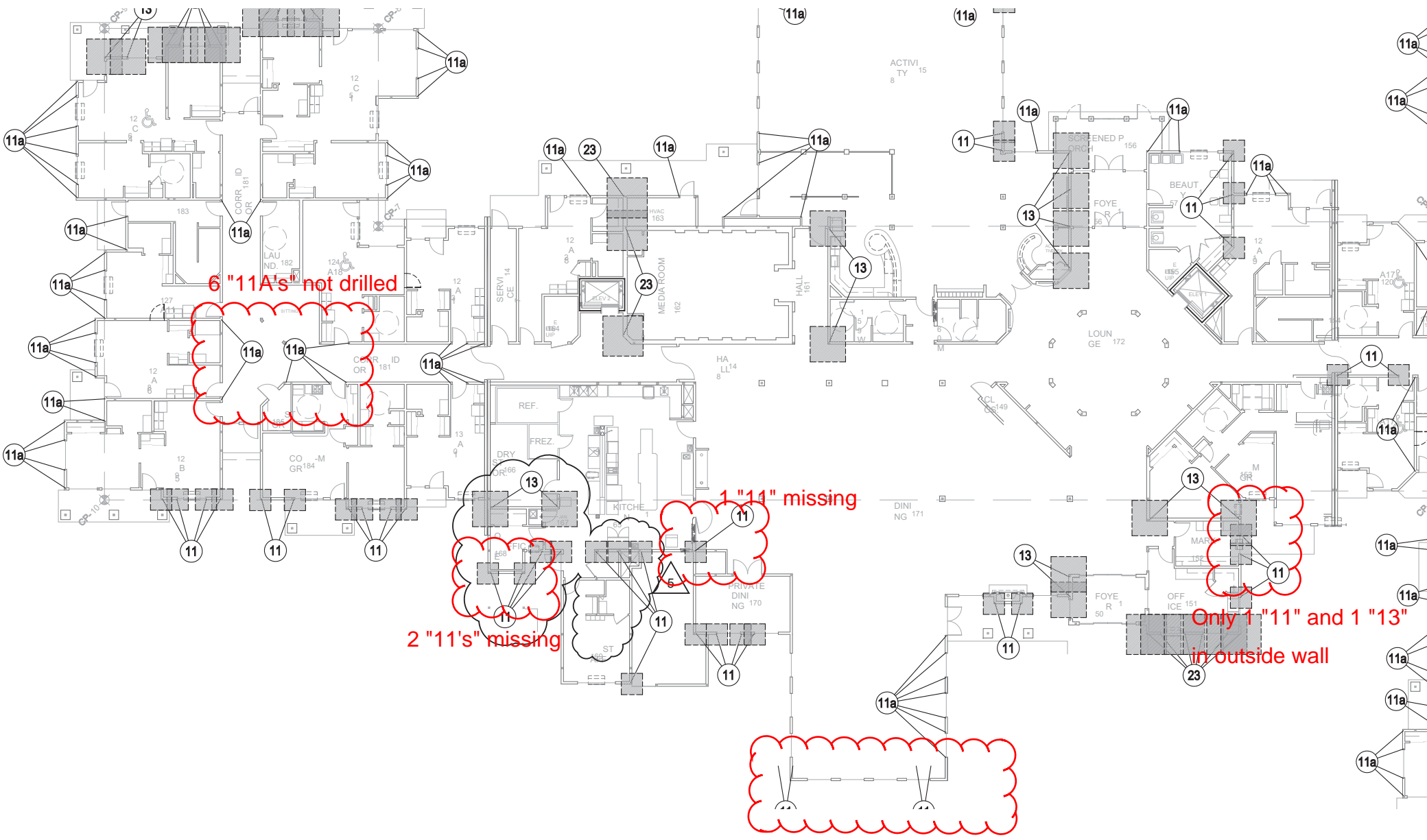
On Site: 9:00 – 10:00

Attachments: Plan with comments

Sheet: 1 of 1

S.W.Cole Rep.: K. Gimpel

Reviewed by: 



6 "11A's" not drilled

2 "11's" missing

1 "11" missing

Only 1 "11" and 1 "13" in outside wall

Epoxy on top of wood plate at 4 "11's" - likely installed after framing with insufficient embedment

CONSTRUCTION OBSERVATION REPORT

Project: Portland Retirement Residence

Client: Colson & Colson

Client's Rep.: Craig Lewis

S.W.Cole Project No.: 14-1188.3

Date: 7/21/2017

Weather: Sunny, 30 - 60

Work in Progress: Wood frame construction B-Wing.

Observations, Discussions, Recommendations:

As requested by Colson & Colson, we made a site visit to observe exterior shearwall fastener patterns on B-Wing on the first three floors. On site we met with Colson & Colson and the wood frame foreman. Observations were compared to requirements detailed on project plans "S0.2", "S0.3" and "S0.4" and the shearwall schedules contained on these referenced sheets.

Materials utilized consist of 7/16 ZipSystem sheathing fastened with pneumatic 8d fasteners. Building components are being fabricated off-site and arriving panelized. Many of the fasteners installed during fabrication were over-driven resulting in heads penetrating the wood surface. The installer recognized the issue during and added additional fasteners as needed on site during installation.

Fastener patterns observed for exterior shearwalls in the current work area generally appeared consistent with the applicable schedule requirements contained in the project documents.

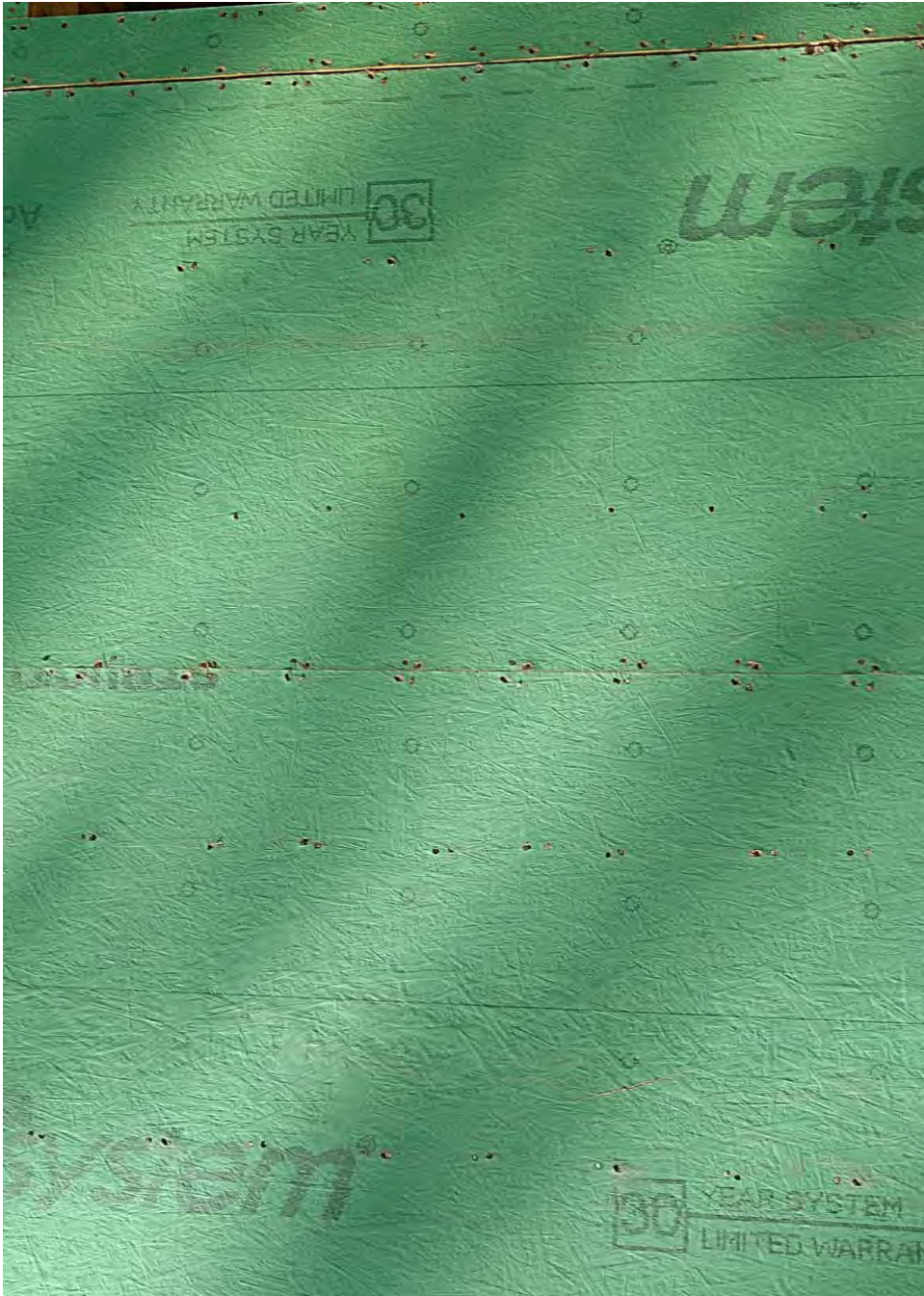
On Site: 8:45 – 9:15

Attachments: Photos

Sheet: 1 of 1

S.W.Cole Rep.: K. Gimpel

Reviewed by: 



CONSTRUCTION OBSERVATION REPORT**Project:** Portland Retirement Residence**Client:** Colson & Colson**Client's Rep.:** Craig Lewis**S.W.Cole Project No.:** 14-1188.3**Date:** 8/11/2017**Weather:** Sunny, 80's**Work in Progress:** Wood frame construction B-Wing.**Observations, Discussions, Recommendations:**

As requested by Colson & Colson, we made a site visit to observe exterior shearwall fastener patterns on the fourth floor of B-Wing. On site we met with Colson & Colson (Joe) and Colt Builders foreman (Tom). Observations were compared to requirements detailed on project plans "S0.5". Also, while on site we observed exterior shearwall fastener installation on Garage 1 referencing typical outbuilding requirements contained on project plan "G3".

Similar to observations made following our last site visit (7-21-17) some of the shop installed fasteners were overdriven penetrating the sheathing surface. At the time of our visit, Colt Builders had a carpenter rechecking and adding additional nails as needed. Patterns observed in the current work area appeared to meet or exceed the spacing requirements in the applicable schedules.

Prior to leaving the site we discussed the following items with Joe:

- Add fasteners to replace numerous over-driven fasteners on the east end of B-Wing
- Add fasteners at exterior of room 414 where automated nailing did not align correctly with framing during fabrication
- Add additional rows of fasteners adjacent to door jams on garage to satisfy the required 16 inch on center framing

On Site: 8:30 – 9:15**Attachments:** Photo**Sheet:** 1 of 1**S.W.Cole Rep.:** K. Gimpel**Reviewed by:**

sm[®]

sm[®]

30

YEAR SYSTEM

LIMITED WARRANTY

FR
Adv

sm[®]

30

YEAR SYSTEM

LIMITED WARRANTY

FR
Adv

CONSTRUCTION OBSERVATION REPORT

Project: Portland Retirement Residence

Client: Colson & Colson

Client's Rep.: Craig Lewis

S.W.Cole Project No.: 14-1188.3

Date: 9/29/2017

Weather: Sunny, 50-70

Work in Progress: Wood frame construction at Core.

Observations, Discussions, Recommendations:

As requested by Colson & Colson, we made a site visit to observe exterior shearwall fastener patterns on the first four levels at the building core. On site we met with Colson & Colson (Joe) and Colt Builders foreman (Tom). Observations were compared to requirements detailed on project structural plan sheets S0.2 through S0.5.

Patterns observed in the current work area appeared to meet or exceed the spacing requirements in the applicable schedules. Fasteners were driven flush with the sheathing face, not overdriven as was typical of B-Wing. No remedial work appeared to be required in the current work area.

On Site: 8:00 – 9:45
Attachments: Photos
Sheet: 1 of 1

S.W.Cole Rep.: K. Gimpel
Reviewed by:





CONSTRUCTION OBSERVATION REPORT**Project:** Portland Retirement Residence**Client:** Colson & Colson**Client's Rep.:** Craig Lewis**S.W.Cole Project No.:** 14-1188.3**Date:** 9/15/2017**Weather:** Partly sunny, 80**Work in Progress:** Wood frame construction B-Wing and outbuildings.**Observations, Discussions, Recommendations:**

As requested by Colson & Colson, we made a site visit to observe installation procedures for B-Wing hold-down types "11" and "11a". On site we met with Colson & Colson (Craig) and Colt Builders foreman (Tom).

Colt Builders had drilled the anchor holes prior to our arrival using a hammer drill over-sized from the anchor as required. After drilling, we understand the holes were cleaned and covered with tape pending installation. During today's site visit, we observed Colt utilize compressed air and appropriately sized brushes to perform a final cleaning just prior to installing anchors. Embedment depths checked were measured to exceed the specified 10 ½ inches detailed on sheet CLP1 and S0.1 for type 11's and 10 inches for the type 11a's as detailed on sheet CLP1 and the latest revision to sheet S2.7b which indicated 5/8 inch diameter threaded rod is acceptable where 11a's are required. The type 11 hold-downs remained ¾ inch diameter as shown on S0.1. Epoxy utilized consisted of Powers Pure 110 with applicator tips. Anchor installations observed while on site appeared consistent with our understanding of the project requirements and epoxy manufacturers guidelines.

Also, while on site we observed exterior shearwall fastener installation on Garage 2, Van Garage and Pump House outbuildings. Sheathing fastening observed appeared consistent with typical details contained on sheet G3 except, we discussed adding an additional row of nails adjacent to doors to provide the specified 16 inch spacing.

On Site: 9:00 – 10:15**Attachments:** Photos**Sheet:** 1 of 1**S.W.Cole Rep.:** K. Gimpel**Reviewed by:**

W

30

**YEAR SYSTEM
LIMITED WARRANTY**

7116" RO

ystem

ystem

30

**YEAR SYSTEM
LIMITED WARRANTY**

Testeamento	4 hrs
Creep Assessment	8 hrs
Creep Assessment	6 hrs
Creep Assessment	4 hrs

Use cleaning instructions on sealer. Sealers should be applied by Powers. Sealers should be applied out of sunlight. Temperature 50°F to 104°F.

Preparación de superficies y la instalación de los productos de sellado se debe hacer de acuerdo a las instrucciones de la literatura publicada por Powers.com.

Préparation des surfaces et l'installation des produits de scellement doivent être effectués conformément aux instructions techniques publiées par Powers, Inc., sur le site Internet www.powers.com.

1-800-933-0000

PURE POWERS EPOXY

110T[®]

Creep Resistant Anchor
1:1 Ratio Formula
El andaje resistentes
1: 1 Relación de Fórm
Ancrage résistant au
1: 1 Ratio Formule



Tested to AC308 / ACI 355.4

Conforms to ASTM C 881, TYPE I, II, IV, & V, CLASS B & C

VOC Compliant

Se ha probado su AC308 / ACI 355.4

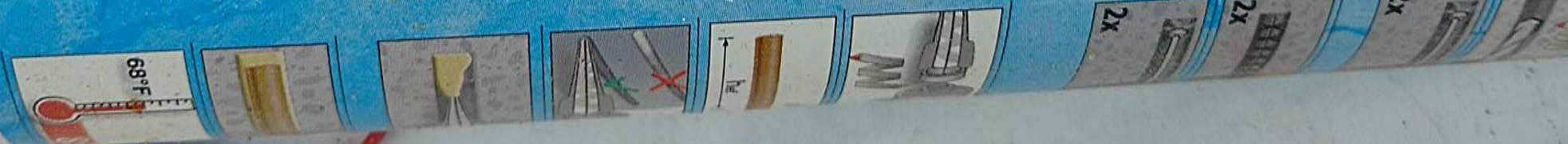
Cumple con la norma ASTM C 881, Tipo I, II, IV, V, Clase B y C

Cumple con VOC

Testé pour AC308 / ACI 355.4

Conforme à la norme ASTM C 881, Type I, II, IV, V et, Classe B & C

Teneur en COV conforme



POWERS



CONSTRUCTION OBSERVATION REPORT**Project:** Portland Retirement Residence**Client:** Colson & Colson**Client's Rep.:** Craig Lewis**S.W.Cole Project No.:** 14-1188.3**Date:** 12/1/2017**Weather:** Overcast, 30-50**Work in Progress:** Wood frame construction C-Wing.**Observations, Discussions, Recommendations:**

As requested by Colson & Colson, we made a site visit to observe exterior shearwall fastener patterns on at C-Wing. Observations of sheathing installations on the core and B-Wing were completed during previous site visits. On site we met with Colson & Colson (Craig) and Colt Builders foreman. Observations were compared to requirements detailed on project structural plan sheets S0.2 through S0.5.

Generally, nailing patterns observed in the current work area appeared to meet or exceed the spacing requirements in the applicable schedules. There was on isolated area missing fasteners between the first and second floor north of room 125 and a few sporadic zones where fasteners were overdriven rather than installed flush to the surface as required. We discussed observations with Craig prior to departing and understand additional nails will be added as needed prior to covering.

On Site: 9:00 – 9:30**Attachments:** None**Sheet:** 1 of 1**S.W.Cole Rep.:** K. Gimpel**Reviewed by:**

Report of Field Density

ASTM D6938

 Project: PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION
 MATERIALS TESTING AND SPEICAL INSPECTIONS SERVICES

Project Number: 14-1188.3

Client: COLSON & COLSON GENERAL CONTRACTORS, INC.

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
1	10/25/2016	PCS	NE INSIDE	131	6	21221G	131.9	3.1	95.2	95
2	10/25/2016	PCS	E SIDE INSIDE	132	8	21221G	132.6	3.5	95.7	95
3	10/25/2016	PCS	E SIDE OUTSIDE	132	12	21221G	135.1	3.6	97.5	95
4	10/25/2016	PCS	SE OUTSIDE	131	6	21221G	133.8	4.4	96.5	95

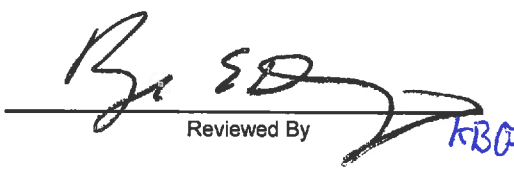
Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
21221G	8/2/2016	Processed On Site	Crushed Gravel	ASTM D-1557 Modified C	138.6	6.5	

Elevation Notes:

Comments:

ALL LOCATIONS ARE B WING


 Reviewed By KBC

Report of Field Density

ASTM D6938

 Project: **PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION MATERIALS TESTING AND SPEICAL INSPECTIONS SERVICES**

 Project Number: **14-1188.3**

 Client: **COLSON & COLSON GENERAL CONTRACTORS, INC.**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
5	10/26/2016	CLC	A12 107 NEXT TO FOUNDATION	2'	10	21221G	133.6	2.8	96.4	95
6	10/26/2016	CLC	B1 111 NEXT TO FOUNDATION	2'	10	21221G	131.9	2.3	95.2	95
7	10/26/2016	CLC	C2 113 NEXT TO FOUNDATION	4'	10	21221G	134.9	2.1	97.3	95

Laboratory Compaction Test Reference


Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
21221G	8/2/2016	Processed On Site	Crushed Gravel	ASTM D-1557 Modified C	138.6	6.5	

Elevation Notes:

ALL ELEVATIONS ARE BELOW FINISH GRADE

Comments:

ALL LOCATIONS ARE B WING


 Reviewed By LBC

Report of Field Density

ASTM D6938

 Project: PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION
 MATERIALS TESTING AND SPEICAL INSPECTIONS SERVICES

Project Number: 14-1188.3

Client: COLSON & COLSON GENERAL CONTRACTORS, INC.

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
8	11/7/2016	JDM	GARAGE 3 PARKING LOT W SIDE	TOS	8	21221G	134.7	5.4	97.2	95
9	11/7/2016	JDM	GARAGE 3 PARKING LOT E SIDE	TOS	8	21221G	142.6	4.0	102.9	95
10	11/7/2016	JDM	GARAGE 3 PARKING LOT DRIVEWAY	TOS	8	21221G	141.1	4.7	101.8	95
11	11/7/2016	JDM	3 + 35	TOS	6	21221G	144.4	2.7	104.2	95
12	11/7/2016	JDM	1 + 55	TOS	6	21221G	140.5	2.3	101.4	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
21221G	8/2/2016	Processed On Site	Crushed Gravel	ASTM D-1557 Modified C	138.6	6.5	

Elevation Notes:

TOS - TOP OF SUBBASE

Comments:

 Reviewed By



Report of Field Density

ASTM D6938

Project: **PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION**
MATERIALS TESTING AND SPEICAL INSPECTIONS SERVICES

Project Number: **14-1188.3**

Client: **COLSON & COLSON GENERAL CONTRACTORS, INC.**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture	Compaction	Required
								Content Percent	Percent	Compaction
13	11/14/2016	CLC	4 + 00, CL	TOA	4	21851G	136.9	2.3	98.1	95
14	11/14/2016	CLC	3 + 00, 8' L OF CL	TOA	4	21851G	134.6	2.3	96.5	95
15	11/14/2016	CLC	2 + 00, 8' R OF CL	TOA	4	21851G	133.1	2.8	95.4	95
16	11/14/2016	CLC	1 + 00, 6' L OF CL	TOA	4	21851G	134.2	2.3	96.2	95
17	11/14/2016	CLC	0 + 25, MIDDLE	TOA	4	21851G	134.1	2.2	96.1	95
18	11/14/2016	CLC	ROADWAY FOR PARKING AREA & GARAGE #3 MIDDLE	TOA	4	21851G	143.5	2.4	102.9	95

Laboratory Compaction Test Reference


Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
21851G	11/15/2016	Chandler Pit	Aggregate Base	ASTM D-1557 Modified C	139.5	5.1	

Elevation Notes:

TOA - TOP OF A GRAVEL

Comments:

CL - CENTER LINE



 Reviewed By

Report of Field Density

ASTM D6938

 Project: PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION
 MATERIALS TESTING AND SPEICAL INSPECTIONS SERVICES

Project Number: 14-1188.3

Client: COLSON & COLSON GENERAL CONTRACTORS, INC.

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
19	11/17/2016	CLC	DINING ROOM 171	TOD	12	21221G	133.2	2.9	96.1	95
20	11/17/2016	CLC	CORNER OF DINING ROOM 171 & FOYER	TOD	12	21221G	135.5	2.3	97.8	95
21	11/17/2016	CLC	ACTIVITY ROOM 158	TOD	12	21221G	134.3	2.0	96.9	95
22	11/17/2016	CLC	GARAGE #1	2' ABF	12	21221G	132.3	4.0	95.5	95
23	11/17/2016	CLC	GARAGE #1	2' ABF	12	21221G	133.1	2.0	96.0	95


Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
21221G	8/2/2016	Processed On Site	Crushed Gravel	ASTM D-1557 Modified C	138.6	6.5	

Elevation Notes:

 TOD - TOP OF D GRAVEL
 ABF - ABOVE BOTTOM FOOTING

Comments:


 Reviewed By KAC

Report of Field Density

ASTM D6938

 Project: PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION
 MATERIALS TESTING AND SPECIAL INSPECTIONS SERVICES

Project Number: 14-1188.3

Client: COLSON & COLSON GENERAL CONTRACTORS, INC.

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
24	11/18/2016	JDM	INT. BF., GARAGE 1 SW CORNER	62"	8	21221G	137.5	3.0	99.2	95
25	11/18/2016	JDM	INT. BF., GARAGE 1 NW CORNER	62"	8	21221G	134.1	5.9	96.8	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
21221G	8/2/2016	Processed On Site	Crushed Gravel	ASTM D-1557 Modified C	138.6	6.5	

Elevation Notes:

ALL ELEVATIONS ARE BELOW FINISH FLOOR

Comments:


 Reviewed By

Report of Field Density

ASTM D6938

 Project: PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION
 MATERIALS TESTING AND SPEICAL INSPECTIONS SERVICES

Project Number: 14-1188.3

Client: COLSON & COLSON GENERAL CONTRACTORS, INC.

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
26	12/6/2016	AHC	E PARKING LOT	125.45	6"	21893G	120.0	12.7	99.3	92
27	12/6/2016	AHC	E PARKING LOT	125.45	6"	21893G	122.0	11.0	101.0	92
28	12/6/2016	AHC	E PARKING LOT	125.45	6"	21893G	123.6	11.1	102.3	92
29	12/6/2016	AHC	E PARKING LOT	125.45	6"	21893G	118.0	11.5	97.7	92

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
21893G	12/5/2016	On Site Mix	Sand Filter	ASTM D-1557 Modified C	120.8	12.1	

Elevation Notes:

Comments:



 Reviewed By



Report of Field Density

ASTM D6938

Project: **PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION MATERIALS TESTING AND SPEICAL INSPECTIONS SERVICES**

Project Number: **14-1188.3**

Client: **COLSON & COLSON GENERAL CONTRACTORS, INC.**

Field Density Test Results

Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture Content Percent	Compaction Percent	Required Compaction
30	4/28/2017	AAB	SOUTH WING CORRIDOR AT MECH. ROOM	16" BFG	10	21851G	132.7	4.2	95.1	95
31	4/28/2017	AAB	SOUTH WING CORRIDOR AT T-SECTION	16" BFG	10	21851G	134.1	3.9	96.1	95
32	4/28/2017	AAB	SOUTH WING CORRIDOR AT NORTH END	16" BFG	10	21851G	134.7	7.5	96.6	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density PCF	Optimum Moisture Content (%)	Comments
21851G	11/15/2016	Chandler Pit	Aggregate Base	ASTM D-1557 Modified C	139.5	5.1	

Elevation Notes:

BFG - BELOW FINISHED GRADE

Comments:

Roger E. Downey

Reviewed By

Report of Field Density

ASTM D6938

 Project: **PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION MATERIALS TESTING AND SPEICAL INSPECTIONS SERVICES**

 Project Number: **14-1188.3**

 Client: **COLSON & COLSON GENERAL CONTRACTORS, INC.**

Field Density Test Results


Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Moisture		Compaction Percent	Required Compaction
							Dry Density	Content Percent		
33	7/11/2018	ALC	6' E OF CB #2	132.5'	8	21851G	137.4	3.2	98.5	95
34	7/11/2018	ALC	15'W OF CONCRETE REINFORCED PAVEMENT	132.5'	8	21851G	135.8	3.8	97.3	95
35	7/11/2018	ALC	3'N OF CB #3	131.5	2	23990G	139.6	2.6	99.9	95
36	7/11/2018	ALC	6' N OC CB #4	131.5'	2	23990G	138.1	3.2	98.8	95

Laboratory Compaction Test Reference

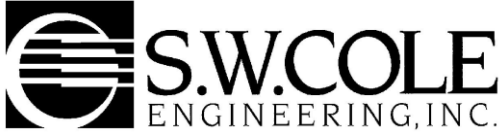
Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density	Optimum Moisture Content (%)	Comments
21851G	11/15/2016	Chandler Pit	Aggregate Base	ASTM D-1557 Modified C	139.5	5.1	
23990G	7/11/2018	Pike Poland	1 1/2" Crushed Gravel	ASTM D-1557 Modified C	139.8	5.6	

Elevation Notes:
Comments:

CB = CATCH BASIN



 Reviewed By



Report of Field Density

ASTM D6938

Project: PORTLAND ME - PORTLAND RETIREMENT RESIDENCE - CONSTRUCTION
 MATERIALS TESTING AND SPEICAL INSPECTIONS SERVICES

Project Number: 14-1188.3

Client: COLSON & COLSON GENERAL CONTRACTORS, INC.

Field Density Test Results

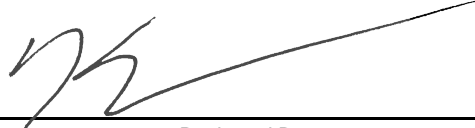
Test #	Test Date	Tech	Test Location	Elev Feet	Test Depth	Lab ID	Dry Density	Moisture	Compaction Percent	Required Compaction
								Content Percent		
37	9/26/2018	ALC	ENTRANCE PARKING LOT	133.89	2	24398G	139.9	4.2	99.6	95
38	9/26/2018	ALC	ENTRANCE PARKING LOT	133.67	2	24398G	135.0	6.2	96.1	95
39	9/26/2018	ALC	ENTRANCE PARKING LOT	133.7	2	24398G	133.6	6.5	95.1	95

Laboratory Compaction Test Reference

Lab ID	Date Received	Material Source	Material Type	Method	Max Dry Density	Optimum Moisture Content (%)	Comments
24398G	9/25/2018	Shaw Brothers, Brickyard	1 1/2" Crushed Gravel	ASTM D-1557 Modified C	140.5	6.5	

Elevation Notes:

Comments:



 Reviewed By



Soil Observation Report

Project Name: Portland Retirement Residence
Location: Portland, ME Ocean Avenue
Client / Client's Rep: Colson & Colson/Craig Lewis
Earthwork Contractor: Sargent Corporation
Work Area: Front Entrance Parking Lot

Project No. : 14-1188.3
Date: 9-26-18
S.W.COLE Rep. : A.Carr
Arrived on Site: 1:00 pm
Left Site: 1:30 pm

<u>Soil Observations</u>	<u>Observed</u>		<u>Comments</u>
Subgrade Preparation	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	By others
Fill Placement (method and uniformity)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	CAT 420F2IT Excavator
Material (proper type, sample #)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Type A 1 1/2 crushed gravel Shaw Brothers Brickyard Pit
Lift Thickness	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Reportedly 3"-4"
Compaction (equipment, passes)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Wacker Neuson BPU 4045
In-place Densities (frequency)*	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	(3) as requested by Sargent Corporation

Non-Conformance Items

Person Notified: _____ Yes No

*refer to associated report for in-situ density results

Observations / Discussions:

S.W. Cole arrived onsite to perform field density testing and obtain a sample of the material being tested today. Arrived onsite and met with Foreman Michael Tully (Sargent Corporation) who provided lift thickness, test locations, and sample information. Michael Tuller requested a ASTM proctor and grain size test on the Type A 1 1/2" crushed gravel. He understood test results are not conclusive until S.W. Cole has completed the tests requested and the density results would be back calculated. Sargent Corporation used a Wacker Neuson 4045 vibratory plate compactor with an operating weight of 710 pounds.

Attachments: Photos

Reviewed by: 