

Project Name **St. Michael's Hospital Avera**

Addendum # **1**

Date **5-01-14**

Sent by **Jacob T. Bunde AIA**
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605-322-7802

ARCHITECTURAL

Specifications: See below attached

- . Premier Agreements
- . Premier Agreements
- . Insurance and Bonds
- . Insurance and Bonds Supplementary Conditions
- . Bidder Requirements
- . 015000 Temporary Facilities
- . 033000 Cast in place Concrete
- . 061000 Rough Carpentry
- . 061053 Miscellaneous Rough Carpentry
- . 061600 Sheathing
- . 071326 Self-Adhering sheet waterproofing
- . 072500 Weather Barriers
- . 096813 Tile Carpeting
- . 096816 Sheet Carpeting
- . 092900 Gypsum Board (texture)
- . 096513 Resilient Base and Accessories
- . Soils Report

Note: The following AIA documents will be used and can be found on the AIA website:

A101-2007 Standard Form of Agreement Between Owner and Contractor where the basis of payment is a stipulated sum.

G701-2001 Change Order

G702-1992 Application and Certification for payment

G704-200 Certificate of Substantial Completion

Drawings:

1. 2/A1 is to be smoke partition not smoke barrier
2. A4 RCP note 1 coordinate all ceiling mounted equipment is NA as there is no owner supplied ceiling equipment.
3. 13/A10 Dimensions are to be follow for the structural wall dimensions on 10/S2.0
4. 11/A7 acoustical panel board is the cover the entire East wall from 3'-0" AFF up to ceiling.
5. 4/A7 lettering is to be by contractor
6. RM 112 has the tall cabinet only in the corner from view 20/A7
7. 4" rigid insulation for roofing can be done in 1 layer but not required.
8. Spec is to be followed where it indicates a 6 mil Vapor retarder and a ½" cover board
9. 3/A9 indicates wall to deck. Yes up to deck between all bar joist for noise control.
10. Construction sequence schedule on C103 indicates second lift of asphalt cannot be done until spring of 2015. This schedule is not mandatory to be followed.
11. Material 072100.B8 is to be 4"
12. Detail 2/A9 is to receive 071326 self-adhering sheet waterproofing (see attached)
13. 3/A5 must remain MTL wall panel as it will be visible from the street. Membrane cannot wrap up the wall and be visible in this location.

General Questions:

1. There are not preselected Mech/Elec contractors.
2. TPO is to do used per spec in lieu of EPDM shown on drawings.
3. 3/4" Plywood sheathing is to be used per arch details in lieu of structural not gyp sheathing.
4. Laminate flush wood doors are to be bid. Not Acrovyn.
5. All soffits and bulkheads to receive a smooth finish.
6. Inrpo or any "or equal" can be used for 10-2600
7. Insolroll "or equal" is to be used as basis of design
8. There is not a joint sealant schedule.
9. Soiled sink is to be all stainless with drop in sinks.
10. Arch dtails say 5" slab on grade. The structural 4" slab on grade is to be used.
11. 2nd level existing window to be in filled are to have the interiors repaired to match the interior walls.
12. Wall mounted work stations are OFCI
13. Infusion and Isolation casework are the same as the typical rooms.
14. Corner guards are currently not in the project
15. There is to be a hand sink installed NE of NS120 see M2.3
16. Showers are to be tile showers with a linear drain see plumbing.
17. There is no roof hatch. Spec for this item is NA

MECHANICAL

Drawings: See attached

1. M2.3 indicates a sink NE of NS120. This is not shown on arch but is to be installed in this location
2. Showers are to be tiled not a shower unit.

ELECTRICAL

See attached

CIVIL

Drawings: See attached C102R

1. Sheet C105 indicated an existing water line goes under the new addition. Do we know the depth of that line? Are any owner utilities (Fiber, Phone, Cable, Gas) in the way of the new building? **Waterline depth is assumed to be 6' based on the main in the street. The depth is unknown when it enters the existing building.**
2. Detail 9/S2.0 indicates drain tile, drain tile spec?? **4" SDR 35 Perforated PVC Pipe with integral gasket joints to provide a watertight seal.**



Facility Development

1325 S. Cliff Ave

Sioux Falls, SD 57117

General Contractor List

Attn: Aaron Eich
Sioux Falls Construction
800 S. 7th Avenue
PO Box 2728
Sioux Falls, SD 57104

Attn: Kevin Schulz
Welfl Construction
800 W. 23rd Street
Yankton, SD 57078

Attn: Doug Moser
Radec Construction
308 N Broadway Avenue
Hartington, NE 68739



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Construction Agreements - January 2013

Products	Division Number	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-Mail
Construction Services (approved national "general contractor/construction management firms")	00 00 00	PP-FA-334	05/1/2012	04/30/2015	Heery International, Inc.	Michael Tomy	404-881-9880 x 2450	MTomy@heery.com
		PP-FA-338	05/1/2012	04/30/2015	Zak Companies	Linda Marie Grawl	314.822.5242	lmgrawl@zakcompanies.com
		PP-FA-335	05/1/2012	04/30/2015	Rodgers Builders, Inc.	James Clayton	704.537.6044	jclayton@roddersbuilders.com
		PP-FA-337	05/1/2012	04/30/2015	Tyler 2 Construction	Dale Fite	704 714 6004	DFite@tyler2construction.com
		PP-FA-331	05/1/2012	04/30/2015	Jones Lang LaSalle	John Healy	404.995.2122	john.healy@am.ill.com
		PP-FA-336	05/1/2012	04/30/2015	Stantec Consulting Services	Pat Faulkner	980.297.7694	pat.faulkner@stantec.com
Construction Architectural Design Firms	00 00 00	PP-FA-291	10/01/2011	04/30/2014	Bahr Architects Inc	Phillip Bahr	415.398.4060	philb@bahrachitects.com
		PP-FA-292	10/01/2011	04/30/2014	Beck Group	Dominick Calabrese	214.303.6265	N/A
		PP-FA-293	10/01/2011	04/30/2014	ESa Architects	Tara Myers	615.329.9445	taram@esarch.com
		PP-FA-294	10/01/2011	04/30/2014	FKP Architects	Rick Harris	713.621.2100	rharris@fkp.com
		PP-FA-295	10/01/2011	04/30/2014	FreemanWhite	Frank Brooks	704.523.2230 x 2326	fbrooks@freemanwhite.com
		PP-FA-296	10/01/2011	04/30/2014	Heery International Inc	Michael Tomy	404.881.9880	mtomy@heery.com
		PP-FA-297	10/01/2011	04/30/2014	LS3P Associates LLC	William Drennan	704.333.6686 x 7889	williamdrennan@ls3p.com
		PP-FA-298	10/01/2011	04/30/2014	Matocha Associates	Jeffrey Baity	630.530.2300 x 257	jbaity@matocha.com
Equipment Planning, Procurement, Installation and Transition Planning Services	00 00 00	PP-FA-299	12/01/2011	04/30/2014	Bahr Architects Inc	Phillip Bahr	650.329.0900	philb@bahrachitects.com
		PP-FA-300	12/01/2011	04/30/2014	Cazador LLC	Thomas Brown	616.502.9366	thomas.brown@cazador.biz
		PP-FA-301	12/01/2011	04/30/2014	Cornerstone Equipment Planning Associates LLC	Doug Lieberman	215.836.1191	doug.lieberman@cepaco.com
		PP-FA-302	12/01/2011	04/30/2014	Equipment Collaborative	Andy Lewis	713.821.9366	alewis@eqcollaborative.com
		PP-FA-303	12/01/2011	04/30/2014	Faithful Gould	Dave Scott	312.612.6306	dave.scott@fgould.com
		PP-FA-306	12/01/2011	04/30/2014	Medical Equipment Resources & Consulting	Wade Byerly	817.337.2772	wbyerly@medicalequiprc.com
		PP-FA-307	12/01/2011	04/30/2014	Mitchell Associates	Ben Riestra	847.412.0300	briestra@mitchellplanning.com
		SD-FA-019	07/01/2012	04/30/2014	KR Wolfe	Hannah Wilner	619.328.1544	hannah@krwolfe.com
Roofing Products, Systems and Services (includes: waterproofing products/installation)	07 00 00	PP-FA-341	06/01/2012	05/31/2015	The Garland Company	Eric Younkin	440-829-7700	eyounkin@garlandind.com
		PP-FA-342	06/01/2012	05/31/2015	Tremco Incorporated and Weatherproofing Technologies, Inc.	Russ Sylvester	719.522.2440	isylvester@tremcoinc.com
		PP-FA-343	06/01/2012	05/31/2015	Team Roofing	Michael Miller	336.750.0750	michael.miller@teamroofinginc.com
		PP-FA-344	06/01/2012	05/31/2015	Nations Roof LLC	Randy Axelson	312.371.3021	raxelson@nationsroof.com
		PP-FA-345	06/01/2012	05/31/2015	Simon Roofing Products	Cynthia Strunk	440.248.0220	cstrunk@simonroofingproducts.com
Flooring Products and Services	09 00 00	PP-FA-372	01/1/2013	11/30/2015	Forbo Flooring	Tim Brown	302.419.8492	tim.brown@forbo.com
		PP-FA-373	01/1/2013	11/30/2015	GrantiFiandre	Srini Rao	713.869.0800	srini@granitiventia.com
		PP-FA-374	01/1/2013	11/30/2015	Johnsonite	Mark Bischoff	412.607.3742	mark.bischoff@johnsite.com
		PP-FA-375	01/1/2013	11/30/2015	Mannington Commercial, Inc	Mark Huxta	484.571.4051	mark.huxta@mannington.com
		PP-FA-376	01/1/2013	11/30/2015	Mondo America, Inc	Garret Davelaar	800.361.3747	gdavelaar@mondousa.com
		PP-FA-377	01/1/2013	11/30/2015	Shaw Industries, Inc.	Paul Young	770.387.7844	paul.young@shawinc.com
		PP-FA-378	01/1/2013	11/30/2015	Tandus, Inc. (C&A)	Joe Martere	860.866.7250	jmartere@tandus.com
		SD-FA-021	01/1/2013	11/30/2015	Pawling Corporation	Heather Coldrick	800.431.3456 Ext 6680845	HColdrick@Pawling.com
		Gypsum Board / Drywall	09 00 00	PP-FA-215	09/1/2010	08/31/2013	USG Corporation	Christine Skelton
Ceiling Tiles / Panels and Systems	09 00 00	PP-FA-216 AS-FA-216	09/1/2010	08/31/2013	USG Corporation	Christine Skelton	312.436.5787	cskelton@usg.com
Paint and Related Sundries	09 00 00	PP-FA-209	03/01/2010	02/28/2013	Glidden Professional Paint Center (formerly ICI Paints)	Wayde Hayley	416.557.8386	wayde.hayley@akzonobel.com
		PP-FA-210 AS-FA-210	03/1/2010	02/28/2013	PPG Industries	Marty Greenwell	502.290.4337	marty.greenwell@ppg.com
		PP-FA-211	03/1/2010	02/28/2013	Spartan Chemical Company Inc.	Jack Ellison	800-537-8990 x431	jellison@spartanchemical.com
		PP-FA-274	07/1/2011	06/30/2014	Aramark	Jeff Lyons	704.287.3687	lyons-jeff@aramark.com
Ice Machines and Water Dispensing Products and Services (includes: medical grade refrigerators & freezers)	12 00 00	PP-FA-272	07/1/2011	06/30/2014	Follett Corporation	Gary Gutman	800.523.9361	ggutman@follettice.com
		PP-FA-273 AS-FA-273	07/1/2011	06/30/2014	Scotsman	Alex Carayannopoulos	224.358.5533	alex.c@scotsman-ice.com
		PP-DI-681	06/1/2011	05/31/2014	Supply America	Jameel Damlouji	318.524.1102 x101	jameel@supplyamericaonline.com
Food Service Equipment, Design, Procurement, and Installation	11 00 00	PP-DI-680	06/1/2011	05/31/2014	Next Day Gourmet	Veronica Ballard	502.275.9644	vballard@nextdaygourmet.com
		PP-DI-590	04/1/2010	03/31/2013	Ali Group North America	Jennifer Ward	864.582.8111	jennifer.ward@bevair.com



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Construction Agreements - January 2013

Products	Division Number	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-Mail
Clinical Headwalls	10 00 00	PP-FA-206	04/1/2010	03/31/2013	Amico Corporation	Marco Acchione	905.764.0800	macchione@amico.com
		PP-FA-207	04/1/2010	03/31/2013	Hill-Rom	Diane Kessens	812-934-8338	diane.kessens@hill-rom.com
		PP-FA-208	04/1/2010	03/31/2013	Hospital Systems	Kathie Campbell	925.427.7800	kcampbell@hospitalssystem.com
Modular Casework, Storage Systems and Mobile Carts <i>(includes: various style carts "crash carts, etc.", wall/base cabinetry, modular casework, cabinets, adjustable shelving, tables) which can be used throughout all levels/depts. w/in a hospital.</i>	12 00 00	PP-FA-348	07/01/2012	06/30/2015	Lakeside Manufacturing	Brian Emmer	800.558.8565 x6479	bemmer@elakeside.com
		PP-FA-346	07/01/2012	06/30/2015	Herman Miller Inc.	Tom Oonk	616.654.8278	tom_oonk@hermanmiller.com
		PP-FA-347	07/1/2012	06/30/2015	InterMetro	Scott Davis	443.949.9229	c.scott.davis@emerson.com
		PP-FA-351	07/01/2012	06/30/2015	Steelcase Inc.	Scott Patton	614.309.7963	spatton1@steelcase.com
		PP-FA-350	07/01/2012	06/30/2015	Stanley InnerSpace	Dan Schroeder	800.467.7224	Dan.Schroeder@sbdinc.com
		PP-FA-349	07/01/2012	06/30/2015	Neocase	Jeffrey Lewis	336.778.2098	jeff@neocase.net
Exam Room Furniture	12 00 00	PP-AC-029	04/1/2011	03/31/2014	Midmark Corporation	Jerry Stahl	937.526.8338	jstahl@midmark.com
Furniture & Systems, Casegoods, Seating and Accessories <i>(includes: patient & hospitality textiles, draperies, tables, chairs, cubicle parts/pieces, dry erase boards, etc.)</i>	12 00 00	PP-FA-319	01/1/2012	12/31/2014	Stryker Medical	Shri Parikh	268.385.2600	shri.parikh@stryker.com
		PP-FA-311	01/1/2012	12/31/2014	Chromcraft	Matt Prochaska	662.560.1423	matt.prochaska@chromcraftcorp.com
		PP-FA-312	01/1/2012	12/31/2014	Durford Corporation	Jim Warren	601.922.4144	jwarren@durford.com
		PP-FA-313	01/1/2012	12/31/2014	Haworth, Inc.	Steven Knippen	630.806.5537	steven.knippen@haworth.com
		PP-FA-314	01/1/2012	12/31/2014	Herman Miller Inc.	Kathi Davis	704.277.6800	kathi.davis@hermanmiller.com
		PP-FA-315	01/1/2012	12/31/2014	The HON Company	Dana Merical	585.991.8693	mericald@hnicorp.com
		PP-FA-316	01/1/2012	12/31/2014	Krueger International, Inc (KI)	Kelli Plamann	920.468.2719	kelli.plamann@ki.com
		PP-FA-317	01/1/2012	12/31/2014	OFS	Mike Wagner	800.521.5381	mwagner@ofsbrands.com
		PP-FA-318	01/1/2012	12/31/2014	Steelcase Inc.	Scott Patton	614.309.7963	spatton1@steelcase.com
		SD-FA-018	01/1/2012	12/31/2014	NK Medical Products, Inc.	Joe Manzella	716.759.7200	jmanzella@nkmedicalproducts.com
Stainless Steel - Equipment, Storage Systems & Mobile Transport Carts (Medical & Non-Medical)	11 00 00	PP-FA-326	03/1/2012	02/28/2015	Lakeside Manufacturing	Brian Emmer	414.902.6479	bemmer@elakeside.com
		AS-FA-326	03/1/2012	02/28/2015	Pedigo Products Inc	Brenda Gillas	800.822.3501 x103	brenda.gillas@pedigo-usa.com
Television Systems and Services	12 00 00	PP-FA-237	03/1/2011	02/28/2014	Lodgenet Interactive Corporation	Kelly Boyd	605.988.1570	kelly.boyd@lodgenet.com
		PP-FA-239	03/1/2011	02/28/2014	MDM Commerical Enterprises Inc	Darlene Verderane	904.567.1125	darlene@mdmcommercial.com
		PP-FA-238	03/1/2011	02/28/2014	TB&A Hospital Television INC.	Tom Brunskole	800.288.7351	tom@hospitaltv.com
		PP-FA-240	03/1/2011	02/28/2014	Telehealth Services	Dan Nathan	919.772.8604	dan.nathan@telehealth.com
		PP-FA-241	03/1/2011	02/28/2014	Healthcare Information LLC	Rick Margraf	513.271.8100	rickmargraf@hci-tv.com
Reusable Textile and Textile Services	12 00 00	PP-FA-359	12/1/2012	11/30/2015	American Dawn Inc.	Mike Maloney	310.223.2000 x 3204	MMaloney@americandawn.com
		PP-FA-360	12/1/2012	11/30/2015	Encompass Group	Mike Justice	678.777.3981	mike.justice@encompassgroup.net
		PP-FA-361	12/1/2012	11/30/2015	Medline	Mark Parry	405.703.1576	mparry@medline.com
		PP-FA-363	12/1/2012	11/30/2015	Phoenix Textile	Scott Rodgers	800.325.1440 x 5752	srodgers@phoenixtextile.com
		AS-FA-363	12/1/2012	11/30/2015	Standard Textile	Norman Frankel	513.761.9255	nfrankel@standardtextile.com
High Density Mobile Storage Systems <i>(includes: wide breadth of high density shelving and storage systems. Storage systems include 2-3 drawer lateral file cabinets, bookcases, four-post and case-type shelving systems, artwork rack systems, etc.)</i>	10 00 00	PP-FA-330	04/1/2012	03/31/2015	Spacesaver Corporation	Jason Freeman	920.342.6824	jfreeman@spacesaver.com
		PP-FA-329	04/1/2012	03/31/2015	Montel Aetnastak, Inc.	John Plewa	321.777.0464 x240	jplewa@montel.com
Pneumatic Tube Systems and Services	14 00 00	PP-FA-260	05/1/2011	04/30/2014	SWISSLOG USA INC.	Charles Warren	303.373.7923	charles.warren@swisslog.com
Conveying Systems: Elevator, Escalator and other	14 00 00	PP-FA-354	11/1/2012	10/31/2015	Otis Elevator Company	Ed Sheya	916.427.5760	ed.sheya@otis.com
		PP-FA-356	11/1/2012	10/31/2015	Kone, Inc	Rudy Schmidt	201.262.0120	rudy.schmidt@kone.com
		PP-FA-355	11/1/2012	10/31/2015	ThyssenKrupp Elevator	Jeff Jaudes	800.824.9666	Jeff.Jaudes@thyssenkrupp.com
		PP-FA-234	02/1/2011	01/31/2014	OHIO MEDICAL CORPORATION	Christine Drewry	847.855.6320	christine.drewry@ohiomedical.com
Medical Gas Pipeline Equipment, Services and Accessories	22 00 00	PP-FA-233	02/1/2011	01/31/2014	ALLIED HEALTHCARE PRODUCTS INC.	Terri Workes	314.268.1605	workest@alliedhpi.com
		PP-FA-353	10/01/2012	09/30/2015	Tri-Dim Filter Co.	Duane Colwell	800.458.9835	d.colwell@tridim.com
Air Filtration Products	23 00 00	PP-FA-352	10/01/2012	09/30/2015	Koch Filter Corporation	Regina McAnally	502.634.6204	rmcanally@kochfilter.com
HVAC Equipment, Controls & Services	23 00 00	PP-FA-387	01/1/2013	12/31/2015	McQuay	Ernie Dominguez	512.517.1551	ernie.dominguez@mcquay.com
		PP-FA-386	01/1/2013	12/31/2015	The Trane Company	Kate Wickham	708.755.9801	Kate.Wickham@trane.com
		PP-FA-389	01/1/2013	12/31/2015	Phoenix Controls	Cheryl Laniewicz	303.273.1544	claniewicz@phoenixcontrols.com
		PP-FA-388	01/1/2013	12/31/2015	Lennox International, Inc	Ron Palmer	704.405.7755	ron.palmer@lennoxind.com
Total Building Environment Systems and Controls	23 00 00	PP-FA-381	01/1/2013	12/31/2015	Siemens Building Technologies, Inc	Linda Gorney	847.941.6404	linda.gorney@siemens.com
		PP-FA-380	01/1/2013	12/31/2015	The Trane Company	Kate Wickham	708.755.9801	Kate.Wickham@trane.com



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Construction Agreements - January 2013

Products	Division Number	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-Mail
Water Treatment Products, Systems and Services	23 00 00	PP-FA-246	04/1/2011	03/31/2014	CHEM-AQUA	Calvin Crotwell	662.429.9592	calvin.crotwell@nch.com
		PP-FA-247	04/1/2011	03/31/2014	ECOLAB INC.	Jeffrey M Oloier	630.305.2882	joloier@nalco.com
		PP-FA-248	04/1/2011	03/31/2014	FREMONT INDUSTRIES INC	Greg Becker	913.962.7676	gbecker@fremontind.com
		PP-FA-249	04/1/2011	03/31/2014	GARRATT-CALLAHAN COMPANY	John Reseland	412.721.5292	jreseland@g-c.com
		PP-FA-250	04/1/2011	03/31/2014	GE CONSUMER INDUSTRIAL	Samir Patel	215.821.0886	Samir.Patel@ge.com
		PP-FA-251	04/1/2011	03/31/2014	NALCO COMPANY	Jeffrey M Oloier	630.305.2882	joloier@nalco.com
		PP-FA-252	04/1/2011	03/31/2014	PREMIER WATER ENERGY TECHNOLOGY INC	Julie Edwards	904.268.1152 X 112	jedwards@premierwater.com
		PP-FA-253	04/1/2011	03/31/2014	SOUTHWEST ENGINEERS	Ronnie Marx	985.643.1117	mailsw@southwestengineers.com
		PP-FA-254	04/1/2011	03/31/2014	US WATER SERVICES	Michael Groh	612.269.7384	mgroh@uswaterservices.com
Lamps, Ballasts & Fixtures	26 00 00	PP-FA-255	04/1/2011	03/31/2014	WATER ENGINEERING SERVICES INC	Damion Riera	917.656.9867	driera@weschemical.com
		PP-FA-256	05/1/2011	04/30/2014	ACUITY BRANDS	Len Costello	215.822.7980	leonard.costello@acuitybrands.com
		PP-FA-257	05/1/2011	04/30/2014	EARTHTRONICS INC	Kevin Youngquist	231.332.1188	keviny@earthtronics.com
		AS-FA-258	05/1/2011	04/30/2014	GENERAL ELECTRIC COMPANY	Peter Aftosmos	717.832.1189	peter.aftosmos@ge.com
Maintenance, Repair and Operations - Electrical	26 00 00	PP-FA-259	05/1/2011	04/30/2014	PHILIPS LIGHTING COMPANY	Robin Chapman	904.813.4291	Robin.Chapman@philips.com
		PP-FA-269	05/1/2011	04/30/2014	WESCO DISTRIBUTION INC.	Jeff Schott	704.658.5038	jschott@wescodist.com
		PP-FA-263	05/1/2011	04/30/2014	GRAYBAR ELECTRIC COMPANY INC	Tim Malone	781.329.2681	timothy.malone@graybar.com
		PP-FA-264	05/1/2011	04/30/2014	MAYER ELECTRIC SUPPLY CO	Andrew Long	704.529.0529	along@mayerelectric.com
		PP-FA-268	05/1/2011	04/30/2014	Hagemeyer North America (Sonepar)	Ray Brindley	843.745.2482	rbrindley@hagemeverna.com
Maintenance, Repair & Operations - General	General	PP-FA-262	05/1/2011	04/30/2014	Rexel Gexpro (IESC)	Kevin Barker	407.454.2990	kevin.barker@gexpro.com
		PP-FA-270	05/1/2011	04/30/2014	WW GRAINGER	Mark Lombardo	847.458.8027	mark.lombardo@grainger.com
		PP-FA-265	05/1/2011	04/30/2014	MSC INDUSTRIAL DIRECT CO. INC.	Dana Harvey	770.248.9944	harveyd@mscdirect.com
		PP-FA-267	5/1/2011	4/30/2014	Interline Brands (Sexauer)	Tony LaCotti	678.464.2346	TLacotti@sexauer.net
		PP-FA-266	05/1/2011	04/30/2014	OPTIMUM SUPPLY LLC	Cedric Beckett	216.544.5593	cbeckett@op-supply.com
Fire/Life Safety/Security Systems and Services	28 00 00	PP-FA-261	05/1/2011	04/30/2014	FASTENAL COMPANY	John Soderberg	507.313.7313	isoderbe@fastenal.com
		PP-FA-192	02/1/2010	01/31/2013	Johnson Controls, Inc.	Kelly Bremness	414.524.6237	kelly.l.bremness@jci.com
Firestop Products	27 00 00	SD-FA-011	03/1/2011	01/31/2013	Odyssey Technologies, Inc	John Webster	301.256.0000	jwebster@remoteeyes.com
		PP-FA-232	12/1/2010	11/30/2013	3M™ Fire Protection Products	George Yoshida	651.733.0584	qwoshida5@mmm.com
Nurse Call Systems	27 00 00	AS-FA-232	12/1/2010	11/30/2013	3M™ Fire Protection Products	George Yoshida	651.733.0584	qwoshida5@mmm.com
		PP-IT-079	04/01/2012	03/31/2015	Rauland-Borg Corporation	Robert Barthe	847.679.0900 x 261	bob.barthe@rauland.com
		PP-IT-080	04/01/2012	03/31/2015	West-Com Nurse Call Systems Inc	Mark Peters	707.428.5900 X225	mpeters@westcall.com
		PP-IT-077	04/01/2012	03/31/2015	Hill-Rom Company, Inc.	Diane Kessens	812-934-8338	diane.kessens@hill-rom.com
		PP-IT-078	04/01/2012	03/31/2015	Jeron Electronic Systems, Inc.	Ericka Baran	773.275.1900	ebaran@jeron.com
Renewable Energy (medical waste, material seperation, wind turbine, smart box, inverter)	33 00 00	PP-IT-076	04/01/2012	03/31/2015	GE Medical Systems Information Technologies, Inc. (Ascom)	Kay McEwing	608.873.3422	kay.mcewing@ascom.com
		PP-FA-357	11/1/2012	9/30/2013	MSW Power	Cheryl Beecher	781.890.2801	cbeecher@infocitex.com
Procurement of Energy	33 00 00	PP-FA-358	11/1/2012	9/30/2015	WindTronics, Inc	Martin Zeltner	231.332.1208	martinz@windtronics.com
		PP-FA-276	7/1/2011	06/30/2014	Amerex Brokers, LLC	Erik Swiler	281.340.5276	eswiler@amerxenergy.com
		PP-FA-277	7/1/2011	06/30/2014	Co-Exprise, Inc	Bill Smith	724.933.1180	wsmith@co-exprise.com
		PP-FA-278	7/1/2011	06/30/2014	Hospital Energy	Mark Mininberg	860.347.1256	mark@hospitalenergy.com
		PP-FA-279	7/1/2011	06/30/2014	Vical Energy Consultants, Inc	Evan Roth	201.525.0066	evanr@vicalenergy.com
PP-FA-280	7/1/2011	06/30/2014	World Energy Solutions, Inc	Daniel Joyce	508.459.8101	djoyce@worldenergy.com		

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Contract Manager

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**Facilities / EVS / Housekeeping / Support Services
Agreements - January 2013**

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Products/Services	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-mail	Contract Manager
Can Liners	PP-FA-309	08/01/11	07/31/13	Heritage Bag Company	Jody Davis	2144323617	jdavis@heritage-bag.com	Kim Drake
	PP-FA-310	08/01/11	07/31/13	Inteplast Group, Ltd.	Denny Guest	303.688.0462	dquest@inteplast.com	Kim Drake
	PP-FA-308	08/01/11	07/31/13	Pitt Plastics	Matt O'Doherty	800-835-0366	matto@pittplastics.com	Kim Drake
	SD-FA-009	08/01/11	07/31/13	District Healthcare and Janitorial Supply	Akia Barbour	301.918.0200	akia@dhc-inc.com	Elaine Hyman
Uniforms, Mats, Microfiber and Towels	PP-FA-328 AS-FA-328	03/01/12	02/28/15	Cintas	Erika Rosenberger	708.924.7102	rosenbergere@cintas.com	Chris Dismuke
Disaster and Emergency Response Products and Services	PP-FA-281	06/01/2011	04/30/2014	Clean Harbors Environmental Services	Mark Mendenhall	615-791-1959	mendenhall.mark@cleanharbors.com	Kim Drake
Energy Efficiency Services (performance based contract whereby suppliers can provide renovation/modernization solutions that will reduce and save on energy cost (e.g. implementation of renewable energies, etc.))	PP-FA-193	02/01/10	01/31/13	American Energy Assets	Thomas Anderson	3035066369	tom.anderson@americanenergyassets.com	Kim Drake
	PP-FA-195	02/01/10	01/31/13	Encelium Technologies	Lisa Scholl	201.298.2400	lscholl@encelium.com	Kim Drake
	PP-FA-194	02/01/10	01/31/13	Energy Automation Systems Inc. (EASI)	George Baker	615.822.7250 x 290	george@easipro.com	Kim Drake
	PP-FA-196	02/01/10	01/31/13	Johnson Controls, Inc.	Kelly Bremness	414.524.6237	kelly.l.bremness@jci.com	Kim Drake
	PP-FA-197	02/01/10	01/31/13	Tolin Mechanical Systems	Tracey Harvey	888.478.0514	THarvey@tolin.com	Kim Drake
PP-FA-198	02/01/10	01/31/13	Trane (IR)	Kate Wickham	708.755.9801	Kate.Wickham@trane.com	Kim Drake	
Floor Care Equipment and Services (industrial grade cleaning equipment for the maintenance of hard and soft surfaces(Scrubbers, walking or riding, Burnishes, walking or riding, Vacuums, wet/dry, oil, specialty, Extractors, Related accessories))	PP-FA-242 AS-FA-242	03/01/11	02/28/14	TENNANT COMPANY	Rick Cohn	312.375.5855	rick.cohn@tenantco.com	Chris Dismuke
	PP-FA-243	03/01/11	02/28/14	KARCHER NA	Graham Callaway	303.726.4991	graham.callaway@windsorind.com	Chris Dismuke
	PP-FA-244	03/01/11	02/28/14	BETCO CORPORATION	John Sullivan	419.725.5456	jsullivan@betco.com	Chris Dismuke
Hard Copy Document Shredding and Offsite Storage Services	PP-FA-227	10/01/2010	07/31/2013	Cintas Corporation	Erika Rosenberger	708.924.7102	rosenbergere@cintas.com	Kim Drake
	PP-FA-229	10/01/2010	07/31/2013	Shred-It	Andrew Lenardon	905.829.2794	andrew.lenardon@shredit.com	Kim Drake
	PP-FA-230	10/01/2010	07/31/2013	Secure Document Alliance	Ryan Giffen	801.664.6375	rgiffen@sdadocs.org	Kim Drake
	PP-FA-231	10/01/2010	07/31/2013	Carolina Records & Information Management	Tray Hoey	803.791.0330	thoey@bellsouth.net	Kim Drake
Housekeeping Products	PP-FA-320	01/01/12	01/31/15	3M Company	Judy Anderson	651.733.7266	jaanderson@mmm.com	Chris Dismuke
	PP-FA-322 AS-FA-322	01/01/12	01/31/15	Diversey, Inc.	Chip Marshall	443.296.2311	chip_marshall@diversey.com	Chris Dismuke
	PP-FA-323	01/01/12	01/31/15	The Procter & Gamble Distributing LLC	Tom Ellis	704.542.9419	ellis.tj.1@pg.com	Chris Dismuke
	PP-FA-324	01/01/12	01/31/15	Spartan Chemical Company Inc.	Jack Ellison	800.537.8990	jellison@spartanchemical.com	Chris Dismuke
	PP-FA-325	01/01/12	01/31/15	Swisher Hygiene, Inc.	KAT Dunham	7046027170	kdunham@swisherhygiene.com	Christian Flohr
Laundry Products and Services (small to large drum liquid and power detergents. Also, includes dispensing units)	PP-FA-366	01/01/13	12/31/15	Gurtler	Rod Stutler	708.331.2550	rstutler@gurtler.com	Chris Dismuke
	PP-FA-364	01/01/13	12/31/15	Diversey, Inc.	Chip Marshall	443.296.2311	chip_marshall@diversey.com	Chris Dismuke
	PP-FA-365	01/1/2013	12/31/2015	Ecolab	Derrick Lee	336.848.0611	lee.derrick@ecolab.com	Chris Dismuke
	PP-FA-370	01/01/13	12/31/15	State Industrial Products	Brian Wamser	216.931.7520	bwamser@stateindustrial.com	Chris Dismuke
	PP-FA-367	01/01/13	12/31/15	Midlab Incorporated	Larry Marston	4233373180	lmrston@midlab.com	Chris Dismuke
	PP-FA-368	01/01/13	12/31/15	Procter & Gamble	Tom Ellis	704.542.9419	ellis.tj.1@pg.com	Chris Dismuke
	PP-FA-200	01/01/13	12/31/15	Swisher Hygiene, Inc.	James Watts	5132525679	jwatts@washingsystems.com	Chris Dismuke
	PP-FA-369	03/01/13	12/31/15	Spartan Chemical Company Inc.	Jack Ellison	800-537-8990 x431	jellison@spartanchemical.com	Elaine Hyman
	PP-FA-245	03/01/11	02/28/14	MSDSONLINE	Chuck Haling	312.881.2225	chaling@msdsonline.com	Chris Dismuke
MSDS Management Services	PP-FA-283	11/01/2011	10/31/2014	Afflink, Inc.	David Dell	404.441.8832	ddell@afflink.com	Beth Randolph
	PP-FA-284	11/01/2011	10/31/2014	Amsan LLC	Lannie Lohnes	402.453.6644 x 14562	llohn@amsan.com	Beth Randolph
	PP-FA-285	11/01/2011	10/31/2014	Hercules & Hercules Inc.	Belinda Jefferson	313.933.6669 x 100	bjefferson@herculesandherculesinc.com	Beth Randolph
	PP-FA-286	11/01/2011	10/31/2014	Network Services Company	Mike Olde	847.682.2035	molde@nsconline.com	Beth Randolph
	PP-FA-287	11/01/2011	10/31/2014	Staples, Inc.	Jenifer Ren	919.632.1013	jenifer.ren@staples.com	Beth Randolph
	PP-FA-288	11/01/2011	10/31/2014	Unisource Worldwide, Inc.	Doug Donovan	2012066201	douglas.donovan@unisourceworldwide.com	Beth Randolph
	PP-FA-289	11/01/2011	10/31/2014	Xpedx	Chris Pearce	303.929.1435	chris.pearce@xpedx.com	Beth Randolph
	PP-FA-290	11/01/2011	10/31/2014	Triple S	Curt Hitchner	978.667.7900	chitchner@triple-s.com	Beth Randolph
	SD-FA-016	11/01/2011	10/31/2014	Materials Management Services, Inc.	Jack Anton	313.365.1290	janton@mms-inc.com	Elaine Hyman
	PP-FA-340	04/01/2012	10/31/2014	American Hotel Register Company	Kevin Lee	847.743.1720	klee@americanhotel.com	Beth Randolph
	PP-FA-339	02/01/2012	10/31/2014	Pro-Link Inc.	Gerry Charlotin	781.232.9550	gerry.charlotin@prolinkhq.com	Beth Randolph
	PP-FA-332	02/01/2012	10/31/2014	Strategic Market Alliance	Alicia Rodriguez	678.349.2963	arodriguez@smasolutions.com	Beth Randolph



**Facilities / EVS / Housekeeping / Support Services
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Products/Services	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-mail	Contract Manager
Paper Towels & Tissue	PP-FA-129	10/1008	09/30/13	Georgia-Pacific Corporation	AVA Wilborn	4046524260	abwilbor@gapac.com	Kim Drake
	PP-FA-130	10/1008	09/30/13	Kimberly-Clark Corporation	Amy Kassing	6514924763	amy.kassing@kcc.com	Kim Drake
Parking Management, Equipment, and Services	PP-FA-223	09/01/10	08/31/13	Curbside, Inc.	Mark Currier	9785225270	mcurrier@curbside.com	Chris Dismuke
	PP-FA-224	09/01/10	08/31/13	VIP Parking Solutions Inc.	Adam Kahn	520.370.6592	VIPparkingsolutions@yahoo.com	Chris Dismuke
	PP-FA-225	09/01/10	08/31/13	Park Inc.	Brian Haupricht	704.377.1755	hauprichtb@parkinc.com	Chris Dismuke
Pest Elimination Services	PP-FA-235 AS-FA-235	03/01/11	02/28/14	ORKIN INC.	Robb Rebisa	770.220.6135	rrebisa@rollins.com	Chris Dismuke
	PP-FA-236	03/01/11	02/28/14	MASSEY SERVICES INC	Jay Hunt	407.230.4875	jhunt@masseyservices.com	Chris Dismuke
Procurement of Energy (Energy brokers between the member and the energy company, Reverse Auction of Energy, Post to Bid, Member Aggregation, fees for procurement are based on energy usage and charged by the associated energy unit of measure (i.e. dekatherm, kilowatt, gallons, etc.)	PP-FA-276	07/01/11	05/31/14	Amerex Brokers	Erik Swiler	281.340.5276	ESwiler@amerexenergy.com	Kim Drake
	PP-FA-277	07/01/11	05/31/14	Co-exprise, Inc.	Bill Smith	7249331180	wsmith@co-exprise.com	Kim Drake
	PP-FA-278	07/01/11	05/31/14	Hospital Energy Development	Mark Mininberg	203.668.3522	mark@hospitalenergy.com	Kim Drake
	PP-FA-279	07/01/11	05/31/14	Vical Energy Consultants	Evan Roth	201.525.0066	vicalenergy@verizon.net	Kim Drake
	PP-FA-280	07/01/11	05/31/14	World Energy	Dan Joyce	508.459.8157	djoyce@worldenergy.com	Kim Drake
Reusable Sharps Containers Service	PP-FA-217	06/01/10	05/31/13	Daniels Sharpsmart Inc.	David Skinner	312.546.8900	DSkinner@danielsinternational.com	Kim Drake
Waste Management Products & Services (waste management services and products, consulting, waste audits, collection, hauling, incineration, landfill, pharmaceutical disposals, regulated medical waste disposal, bioremediation and other waste streams, recycling of light bulbs, batteries, hard drive (any kind laptop, desktop, PATA, SATA and many more), Backup Magnetic Tapes (any kind DLT, mini cartridges and many more), Floppy Disk (3.5 inch disk, 5.25 inch disks, and many more), Zip Disk (100 MB, 250 MB, and other large disks), Optical Media (CD's DVD's, Blue Ray, and HD DVD), CD-ROMs/CD-Rs/DVDs, computer back ups, X-Rays, video tapes, Cassette Tapes, etc.)	PP-FA-218	07/01/10	05/31/13	Clean Harbors Environmental Services	Mark Mendenhall	615.791.1959	mendenhall.mark@cleanharbors.com	Kim Drake
	PP-FA-219	07/01/10	05/31/13	HealthCare Medical Waste Services (SBE)	Linda Moll	520.316.9207	hmws@cgmailbox.com	Kim Drake
	PP-FA-220	07/01/10	05/31/13	Healthcare Waste Solutions, LLC	Rock Robinson	5134753000	rrobinson@hwsusa.com	Kim Drake
	PP-FA-221	07/01/10	05/31/13	Heritage Environmental Services	Rhue Mulholen	724.494.2995	RMulhollen@heritage-wti.com	Kim Drake
	PP-FA-222	07/01/10	05/31/13	Stericycle	Mark Battaglia	801.947.5817	mbattaglia@Stericycle.com	Kim Drake
	SD-FA-015	04/01/11	05/31/13	OnSite Sterilization	Al Koehler	610.733.3029	akoehler@askonsite.com	Elaine Hyman
	PP-FA-275	07/01/11	05/31/13	Antos Environmental Corp	Tony Schifano	518.325.5410	Tony@antosenvironmental.com	Kim Drake
	PP-FA-271	07/01/10	05/31/13	Trinova Medical Waste Solutions	Brian Williams	909.226.0195	brian.williams@trinovamed.com	Kim Drake
Batteries	PP-MM-173	08/01/12	07/31/15	Alpha Source (new)	John Reimer	4147604019	john.reimer@alphasource.com	Beth Randolph
	PP-MM-175	08/01/12	07/31/15	Proctor & Gamble (was Gillette)	Bob Maycock	8033291827	maycock.re@pg.com	Beth Randolph
	PP-MM-176	08/01/12	07/31/15	Energizer	Paul Gutierrez	732.423.7484	paulx.gutierrez@energizer.com	Beth Randolph
Bulk Oxygen	PP-MM-072	11/01/09	10/31/14	BOC Gases / Lifegas	Brian Curd	908.771.1731	brian.curd@boc.com	Beth Randolph
	PP-MM-071	11/01/09	10/31/14	Airgas, Inc - Puritan Medical Products	Jerry Anderskow	602.751.3109	jerry.anderskow@airgas.com	Beth Randolph
	PP-MM-070	11/01/09	10/31/14	Air Liquide	Troy Fowler	512.417.9803	troy.fowler@airliquide.com	Beth Randolph
	PP-MM-073	11/01/09	10/31/14	Praxair	Charles Tortorello	630.320.4168	chuck_tortorello@praxair.com	Beth Randolph
Cylinder Gas	PP-MM-184	11/01/12	10/31/15	BOC Gases / Lifegas	Brian Curd	908.771.1731	brian.curd@boc.com	Beth Randolph
	PP-MM-182	11/01/12	10/31/15	Airgas, Inc - Puritan Medical Products	Jerry Anderskow	602.751.3109	jerry.anderskow@airgas.com	Beth Randolph
	PP-MM-183	11/01/12	10/31/15	Air Liquide	Troy Fowler	512.417.9803	troy.fowler@airliquide.com	Beth Randolph
	PP-MM-185	11/01/12	10/31/15	Praxair	Charles Tortorello	630.320.4168	chuck_tortorello.com	Beth Randolph
Office Supplies	PP-MM-115	08/01/10	03/31/13	Staples (formerly Corporate Express)	Jenifer Ren	919.632.1013	jenifer.ren@staples.com	Beth Randolph
	PP-MM-105	08/01/10	03/31/13	Office Depot	Jim Czajka	630.679.1649	jczajka@officedepot.com	Beth Randolph
	PP-MM-116	08/01/10	03/31/13	Sun Office	Roger Dieckhaus	866.606.4601	rDieckhaus@sunofficeproducts.com	Beth Randolph
	PP-MM-106	08/01/10	03/31/13	OfficeMax	Cindy Brittain	800.741.7113 x 2119	cindybrittain@officemax.com	Beth Randolph
Support Services Outsourcing	PP-MM-094	04/01/10	03/31/13	Crothall Services Group, Inc.	Duffy Hickey	404.843.9423	dhickey@crothall.com	Beth Randolph
	PP-MM-095	04/01/10	03/31/13	HHA Services	Jason Fabbri	5867713040	jfabbri@hhaservices.com	Beth Randolph
	PP-MM-096	04/01/10	03/31/13	Hospital Housekeeping Systems	Brad Spry	8002292028	bspry@hhs1.com	Beth Randolph
	PP-MM-112	10/01/10	09/30/13	Aramark Clinical Technology Services	Tim Alba	704.752.6557	alba-timothy@aramark.com	Beth Randolph
	PP-MM-113	10/01/10	09/30/13	GE Medical Systems	Lawrence Thurman	615.472.2411	laurance.thurman@med.ge.com	Beth Randolph
Wall Desks and Patient Charting Equipment	PP-MM-117	01/01/11	04/30/13	First Healthcare Products	Tom Mislin	7167317814	tmislin@firstproducts.com	Beth Randolph
Car Rental Services	PP-MM-155	11/01/2011	10/31/2014	Budget Rent A Car System, Inc	Perry Fry	4045775450	perry.fry@avisbudget.com	Josh Hedrick
	PP-MM-156	11/01/2011	10/31/2014	The Hertz Corporation	Marion Padgett	8036425545	mpadgett@hertz.com	Josh Hedrick
	PP-MM-132	08/01/11	07/31/14	Boyer Rosense Moving and Storage	James May	847.385.0262	jmay@bekins.com	Chris Dismuke
	PP-MM-133	08/01/11	07/31/14	Graebel Companies	Jason Studer	704.392.7057	lstuder@graebel.com	Chris Dismuke



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Products/Services	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-mail	Contract Manager
Moving Services	PP-MM-134	08/01/11	07/31/14	Wheaton Van Lines	Aj Schneider	317.849.7900	aj_schneider@wvlcorp.com	Chris Dismuke
	PP-MM-135	08/01/11	07/31/14	Ewing Moving Services	Katrina Lyons	901.774.2197 x6355	klyons@ewingmovingservice.com	Chris Dismuke
	SD-MM-012	08/01/11	07/31/14	Excel Moving Services	Bruce Owashi	800.392.3596 x102	bruce@excelmoving.com	Elaine Hyman
	SD-MM-013	08/01/11	07/31/14	Armstrong Relocation	Bradley Murphy	256.772.6664	bmurphy@goarmstrong.com	Elaine Hyman



IT & Telecom Agreements - January 2013

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 Jacques Lahaie, Director, Tech. Field Specialist, 770-316-9603
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 Josh Hedrick, Contract Manager, I.T. Services, 704-816-5760
josh_hedrick@premierinc.com

Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Diversity	Contract Manager / Director
Ambulatory EMR Software	PP-IT-056	04/01/2011	02/28/2014	Intivia Inc	Randall Redd	877.246.8484 x 116	rredd@intivia.com	MBE	Josh Hedrick
	PP-IT-058	04/01/2011	02/28/2014	SuccessEHS Inc	David Turner	205.871.1031	davidt@ehsmed.com		Josh Hedrick
	PP-IT-081	02/01/2012	02/28/2014	MedPlus Inc	Keith Johnson	513.229.5500	kjohnson@medplus.com		Josh Hedrick
Cellular Voice and Data Services Equipment	PP-IT-084	08/01/2012	07/31/2015	Verizon Wireless	Denise Marcelt	843.696.4900	denise.marcelt@verizonwireless.com		Josh Hedrick
	PP-IT-083	08/01/2012	07/31/2015	AT&T Mobility National Accounts LLC	Ross Deuel	972.977.0248	ross.deuel@att.com		Josh Hedrick
Document Management Solutions	PP-IT-051	09/01/2010	07/31/2013	International Business Solutions Alliance	Jeff Shaner	858.495.1050	jeff_shaner@ibsaonline		Josh Hedrick
	PP-IT-052	09/01/2010	07/31/2013	Ricoh	Scott Petraglia	858.495.1050	Scott.Petraglia@ricoh-usa.com		Josh Hedrick
	PP-IT-053 AS-IT-053	09/01/2010	07/31/2013	The Standard Register Company	Patrick Kennedy	877.647.2817	Pat.Kennedy@standardregister.com		Josh Hedrick
	PP-IT-054	09/01/2010	07/31/2013	Workflowone	Ted Stark	937.630.8163	ted.stark@workflowone.com		Josh Hedrick
Enterprise Image Management Solutions	PP-IT-069	01/01/2012	12/31/2014	Infinitt North America	Deborah Reed	908.387.6960 x 118	dreed@infinittna.com		Josh Hedrick
	PP-IT-070	01/01/2012	12/31/2014	Agfa Healthcare Corporation	Tara Vail	813.282.4506	N/A		Josh Hedrick
	PP-IT-071	01/01/2012	12/31/2014	Fujifilm Medical Systems USA, Inc	Tony Briley	615.594.7168	tbriley@fujifilm.com		Josh Hedrick
Enterprise Data Storage	PP-IT-061	05/01/2011	01/31/2014	Logicalis	Brian Massoudi	704.815.7220	brian.moussoudi@us.logicalis.com		Josh Hedrick
	PP-IT-060	05/01/2011	01/31/2014	PC Connection, Inc.	Jerry Morin	708.799.0582	jmorin@moredirect.com		Josh Hedrick
	PP-IT-063	05/01/2011	01/31/2014	CDW Government, Inc.	Jeff Heck	847.419.7317	jeffhec@cdw.com		Josh Hedrick
	PP-IT-062	05/01/2011	01/31/2014	Preferred IT Group, LLC	Jeff Sanderson	260.213.4266 x 107	vendors@preferreditgroup.com		Josh Hedrick
Hardware/Software Asset Management Solutions	PP-IT-072	09/01/2011	07/31/2014	Renovo Solutions	Anne Granum	571.214.9291	agranum@renovo1.com		Josh Hedrick
	PP-IT-073	09/01/2011	07/31/2014	Hardcat Pty Ltd	Tom Vogt	702.589.5839	tvogt@hardcat.com		Josh Hedrick
Nurse Call Systems	PP-IT-079	04/01/2012	03/31/2015	Rauland-Borg Corporation	Robert Barthi	847.679.0900 x 261	bob.barthi@rauland.com		Josh Hedrick
	PP-IT-080	04/01/2012	03/31/2015	West-Com Nurse Call Systems Inc	Mark Peters	707.428.5900 X225	mpeters@westcall.com		Josh Hedrick
	PP-IT-077	04/01/2012	03/31/2015	Hill-Rom Company, Inc.	Diane Kessens	812-934-8338	diane.kessens@hill-rom.com		Josh Hedrick
	PP-IT-078	04/01/2012	03/31/2015	Jeron Electronic Systems, Inc.	Ericka Baran	773.275.1900	ebaran@jeron.com		Josh Hedrick
	PP-IT-076	04/01/2012	03/31/2015	GE Medical Systems Information Technologies, Inc. (Ascom)	Curtis Marks	919.676.2346	curtis.marks@med.ge.com		Josh Hedrick
Patient Visitor Interactive Information Kiosks	PP-IT-074	11/01/2011	10/31/2014	Connected Technology Solutions	Sandra Nix	262.242.6100	info@connectedts.com		Josh Hedrick
	PP-IT-075	11/01/2011	10/31/2014	Encounter Pointe, Inc.	Rick Trojan	949.209.8890	rick.trojan@encounterpointe.com		Josh Hedrick
PC Hardware and Software Resellers	PP-IT-065	10/01/2011	09/30/2014	CDW	Jeff Heck	847.419.7317	jeffhec@cdw.com		Josh Hedrick
	PP-IT-066	10/01/2011	09/30/2014	PC Connection, Inc.	Jerry Morin	708.799.0582	jmorin@moredirect.com		Josh Hedrick
	PP-IT-067	10/01/2011	09/30/2014	Zones Inc	Robert McGowen	206.412.7790	robert.mcgowen@zones.com		Josh Hedrick
	PP-IT-068	10/01/2011	09/30/2014	Paragon Development Systems	John Miller	608.246.2707	jmiller@pdspc.com		Josh Hedrick



IT & Telecom Agreements - January 2013

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Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Diversity	Contract Manager / Director
Printers, Copiers, Facsimiles, and Facilities Management	PP-IT-089 AS-IT-089	01/01/2013	12/31/2015	Xerox Corporation	Clare Browning-tuch	818 703 8562	Clare.Browning-tuch@xerox.com		Josh Hedrick
	PP-IT-090	01/01/2013	12/31/2015	Ricoh aka Lanier	Scott Petraglia	858.495.1050	scott.petraglia@ricoh-usa.com		Josh Hedrick
	PP-IT-091	01/01/2013	12/31/2015	Konica Minolta	Joseph Nelis	704.661.5505	jnelis@kmb.konicaminolta.us		Josh Hedrick
Reimbursement Software	PP-IT-082	08/01/2012	07/31/2015	3M Health Information Systems	Todd Wallenfelt	801.265.4332 x00	tlwallenfet@mmm.com		Josh Hedrick
RFID Asset Tracking and Management Solutions	PP-IT-088	08/15/2012	07/31/2015	Ekahau Inc	Kim Dwyer	937.301.4050	kim.dwyer@ekahau.com	MBE	Josh Hedrick
	PP-IT-087 AS-IT-087	08/15/2012	07/31/2015	AeroScout Inc	Jesse Gentry	951.325.2100	jesse.gentry@aeroscout.com		Josh Hedrick
Transcription Services	PP-IT-094	01/01/2013	12/31/2015	Breitner Transcription Services, Inc	Owen Breitner	781.828.1807	owen@breitner.com		Josh Hedrick
	PP-IT-092	01/01/2013	12/31/2015	Accutype Medical Services	Tom Golding	913.232.4215	tgolding@accutype.com		Josh Hedrick
	PP-IT-093	01/01/2013	12/31/2015	Acusis LLC	David Brewer	972.757.1079	david.brewer@acusis.com		Josh Hedrick
	PP-IT-096	01/01/2013	12/31/2015	Integrated Document Solutions	Glen Weintraub	954.484.0969	gweintraub@idssite.com		Josh Hedrick
	PP-IT-098	01/01/2013	12/31/2015	Oracle Transcription, Inc.	Gary Nevitt	301.929.9100 x 3004	gary@oracleti.com		Josh Hedrick
	PP-IT-095	01/01/2013	12/31/2015	Healthcare Global Inc	David Ebenezer	781.329.6620	de@healthcareglobal.net		Josh Hedrick
	PP-IT-099	01/01/2013	12/31/2015	Saince Inc	Davis Turner	770.992.7514	davis.turner@saince.com		Josh Hedrick
	PP-IT-097	01/01/2013	12/31/2015	iMedX	Luther Runyon	800.221.0244 x 247	brunyon@imedx.com		Josh Hedrick



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Alternate Site Health Care								
Bathing Systems	PP-AC-031	01/01/2011	12/31/2013	Penner Patient Care	Kirk Penner	800.732.0717	pennersales@hamilton.net	Kim Caldwell
	PP-AC-032	01/01/2011	12/31/2013	THE Medical	Kevin Farrell	727.510.7071	kfarrell@themedical.com	Kim Caldwell
	PP-AC-030	01/01/2011	12/31/2013	TR Group	Jeffrey Wagner	815.494.7851	wagner@trequipment.com	Kim Caldwell
Electric Vehicles	PP-AC-048	12/01/2011	11/30/2014	Club Car LLC	Jim Staub	706.228.2739	jim_staub@clubcar.com	Leslie Totty
EMS Products	PP-AC-034	02/01/2011	01/31/2014	Midwest Medical Supply Company LLC	Richard Hawkins	314.291.2900 x 3251	richard.hawkins@mmsmedical.com	Paula Baker
	PP-AC-035	02/01/2011	01/31/2014	Southeastern Emergency Equipment	Kaile Rizzo	919.435.5931	bids@seequip.com	Paula Baker
Mobile Imaging Services	PP-AC-027	06/01/2010	05/31/2013	Shared Imaging, Inc.	Scott Loehrke	630.483.3980	scottl@sharedimaging.com	Leslie Totty
Non-Invasive Ventilators - Portable Mass Casualty	PP-MM-101	07/01/2010	06/30/2013	Respironics California Inc	Terry Bryant	630.842.4926	terry.bryant@philips.com	Leslie Totty
	PP-MM-102	07/01/2010	06/30/2013	Allied Healthcare Products, Inc.	Terri Workes	314.268.1605	workesT@alliedhpi.com	Kim Caldwell
Physical Therapy Products	PP-NS-633	03/01/2011	02/28/2014	DYNATRONICS CORPORATION	Larry Beardall	800.874.6251 x 6220	larry@dynatron.com	Kim Caldwell
	PP-NS-634	03/01/2011	02/28/2014	THE MEDCOM GROUP LTD	Joe Perrin	970.674.3032 x 14	joe@medcomgroup.com	Kim Caldwell
	PP-NS-635	03/01/2011	02/28/2014	KINETIC MUSCLES INC	Grant Farrell	480.557.0448	gfarrell@kineticmuscles.com	Leslie Totty
	PP-NS-632 AS-NS-632	03/01/2011	02/28/2014	Sammons Preston Rolyan	Dianne Scheuer	562.598.6898	dianne.scheuer@patterson-medical.com	Paula Baker
	SD-NS-008	06/01/2012	02/28/2014	Physical Enterprises, Inc.	Graham Degen	415.845.5731	graham@physicalenterprise.com	Elaine Hyman
Cardiovascular Services								
External Defibrillators and Related Products	PP-CA-162	06/01/2010	05/31/2013	Medtronic Usa, Inc.	Brian Holmes	317.328.8918	brian.holmes@medtronic.com	Rachel Franklin
	PP-CA-163	06/01/2010	05/31/2013	Philips Medical Systems	Peter Grant	6305483740	peter.grant@philips.com	Rachel Franklin
	PP-CA-164	06/01/2010	05/31/2013	Zoll Medical Corporation	Lynn Conaway	978.421.9355	lconaway@zoll.com	Rachel Franklin
Intra-Aortic Balloon Catheters and Pumps	PP-CA-192 AS-CA-192	11/01/2011	10/31/2014	Maquet, Inc.	John Pietrantonio	205.332.5551	john.pietrantonio@maquet.com	Rachel Franklin
	PP-CA-193	11/01/2011	10/31/2014	Arrow International Inc	Dan Kuni	480.280.4914	dan.kuni@teleflex.com	Rachel Franklin
Invasive Cardiology Equipment	PP-CA-195	03/01/2012	02/28/2015	Philips Medical Systems	Ron Sanders	6103047622	r.l.sanders@philips.com	Rachel Franklin
	PP-CA-196	03/01/2012	02/28/2015	Bard Electrophysiology Division, C.R. Bard	Robert Anderson	7707846164	bob.anderson@crbard.com	Rachel Franklin
	PP-CA-194 AS-CA-194	03/01/2012	02/28/2015	GE Healthcare	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Rachel Franklin
Non-Invasive Cardiology Equipment	PP-CA-197	03/01/2012	02/28/2015	GE Healthcare	Curtis Marks	9196762346	curtis.marks@med.ge.com	Rachel Franklin
	PP-CA-198	03/01/2012	02/28/2015	Cardiac Science Corporation	Robert Atkins	4408404474	ratkins@cardiacscience.com	Rachel Franklin
	PP-CA-199	03/01/2012	02/28/2015	Welch Allyn Inc	Dean Goldberg	8007694014	goldbergd@welchallyn.com	Rachel Franklin
Thrombectomy Products	PP-CA-204	11/1/2012	10/31/2015	Medrad Intervention Possis	Bonnie Stevens	763.780.8392	bonnie.stevens@bayer.com	Rachel Franklin



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Clinical Laboratory Services								
Automated Blood Culture and Mycobacterial Recovery Analyzers, Reagents, Consumables and Service	PP-LA-275	11/01/2010	10/31/2013	Becton Dickinson and Company	Jeffrey Ferguson	5713331469	jeffrey_ferguson@bd.com	Charlotte Barber
	AS-LA-276 PP-LA-276	11/01/2010	10/31/2013	bioMerieux, Inc.	Michael Profenno	8006822666	michael.profenno@biomerieux.com	Charlotte Barber
	PP-LA-277	11/01/2010	10/31/2013	Trek Diagnostic Systems, Inc.	Simon Price	7038031270	sprice@magellanbio.com	Charlotte Barber
Automated Microbial Identification and Susceptibility Analyzers, Reagents, Consumables and Service	AS-LA-279 PP-LA-279	11/01/2010	10/31/2013	Siemens Healthcare Diagnostics Inc (fka Dade)	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-278	11/01/2010	10/31/2013	bioMerieux, Inc.	Michael Profenno	8006822666	michael.profenno@biomerieux.com	Charlotte Barber
Blood Bank Analyzers, Reagents, Consumables and Service	PP-LA-320 AS-LA-320	11/1/2012	10/31/2015	Bio-Rad Laboratories	Brad Burnette	501.944.9414	brad_burnette@bio-rad.com	Charlotte Barber
	PP-LA-321	11/1/2012	10/31/2015	Immucor, Inc	Mary Trout	855.920.6225	mt trout@immucor.com	Charlotte Barber
	PP-LA-322	11/1/2012	10/31/2015	Johnson & Johnson Health Care Systems, Inc.	Michael Dari	732.562.3299	mdari@its.jni.com	Charlotte Barber
Blood Gas Analyzers, Reagents, Consumables and Service	PP-LA-300 AS-LA-300	10/01/2011	09/30/2014	Instrumentation Laboratory	Bill Crandell	7816541903	bcrandell@ilww.com	Charlotte Barber
	PP-LA-301	10/01/2011	09/30/2014	Siemens Healthcare Diagnostics Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
Blood Glucose Meters, Reagents, Consumables and Service	PP-LA-260	03/01/2010	03/31/2013	Johnson & Johnson Health Care Systems, Inc.	Joe Eickhoff	8007226036	jeickhof@its.jnj.com	Charlotte Barber
	PP-LA-261	03/01/2010	02/28/2013	Nova Biomedical Corporation	Dick Schneider	9498422659	dschneider@novabio.com	Charlotte Barber
	PP-LA-262 AS-LA-262	03/01/2010	02/28/2013	Roche Diagnostics Corporation	John Thomson	770.663.6329	john.thomson@roche.com	Charlotte Barber
Digital Pathology Systems, Accessories and Service	PP-LA-327	08/01/2012	07/31/2015	DigiPath, Inc	Steve Barbee	702.527.2060	steve@digipath.biz	Charlotte Barber
General Laboratory Products, Equipment and Service	PP-LA-302	01/01/2012	12/31/2014	Helmer, Inc.	Shannon Krenz	800.743.5637 x 3926	skrenz@helmerinc.com	Charlotte Barber
Hematology Analyzers, Automation, Reagents, Consumables and Service	PP-LA-265 AS-LA-265	08/01/2010	07/31/2013	Sysmex America, Inc.	Bonnie Streeter	407.324.0491	streeterb@sysmex.com	Charlotte Barber
	PP-LA-264	08/01/2010	07/31/2013	Beckman Coulter Inc	Ann Iannuzzi	7812482984	amiannuzzi@beckman.com	Charlotte Barber
	PP-LA-263	08/01/2010	07/31/2013	Abbott Laboratories, Inc.	Ronald Burke	8479371133	ronald.burke@abbott.com	Charlotte Barber
Hemostasis Analyzers, Reagents, Consumables and Service	PP-LA-267 AS-LA-267	08/01/2010	07/31/2013	Siemens Healthcare Diagnostics Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-266	08/01/2010	07/31/2013	Beckman Coulter Inc	Ann Iannuzzi	7812482984	amiannuzzi@beckman.com	Charlotte Barber
	PP-LA-268	08/01/2010	07/31/2013	Diagnostica Stago, Inc.	Craig Miller	6147472324	craig.miller@stago-us.com	Charlotte Barber
Histology and Cytology Instruments, Reagents and Consumables	PP-LA-289	10/01/2011	09/30/2014	Richard-Allan Scientific	Sandy Steinbach	8005227270	sandra.steinbach@thermofisher.com	Charlotte Barber
	PP-LA-290	10/01/2011	09/30/2014	Statlab Medical Products	Jeffrey Hayes	913.461.4000	jhayes@statlab.com	Charlotte Barber
	PP-LA-303	10/01/2011	09/30/2014	Medite, Inc.	Drew Ranostaj	407.996.9630	ranostaj@medite-group.com	Charlotte Barber
Integrated Platform (Chemistry and Immunochemistry Analyzers, Automation, Reagents, Consumables and Service)	PP-LA-257 AS-LA-257	04/01/2010	03/31/2013	Siemens Healthcare Diagnostics Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-255	04/01/2010	03/31/2013	Beckman Coulter Inc	Ann Iannuzzi	7812482984	amiannuzzi@beckman.com	Charlotte Barber



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	PP-LA-256	04/01/2010	03/31/2013	Roche Diagnostics Corporation	John Thomson	7706636329	john.thomson@roche.com	Charlotte Barber
Manual Microbiology	PP-LA-293	10/01/2011	09/30/2014	bioMerieux, Inc.	Michael Profenno	8006822666	michael.profenno@biomerieux.com	Charlotte Barber
Microscopes, Accessories, Parts and Service	PP-LA-307	02/01/2012	01/31/2015	Olympus America, Inc.	Tom Moher	561-676-5000	tom.moher@olympus.com	Charlotte Barber
Molecular Analyzers, Reagents, Consumables and Service	PP-LA-297	10/01/2011	09/30/2014	Roche Diagnostics Corporation	John Thomson	7706636329	john.thomson@roche.com	Charlotte Barber
	PP-LA-296	10/01/2011	09/30/2014	bioMerieux, Inc.	Michael Profenno	8006822666	michael.profenno@biomerieux.com	Charlotte Barber
	PP-LA-298	10/01/2011	09/30/2014	Siemens Healthcare Diagnostics Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
Molecular Rapid Qualitative Screening	PP-LA-287	05/1/2011	04/30/2014	CEPHEID	Joy Cloninger	9105061928	joy.cloninger@cepheid.com	Charlotte Barber
	PP-LA-308	04/01/2012	04/30/2014	Meridian Bioscience Corporation	Tamara Stojanovski	602-363-3361	tamara.stojanovski@meridianbioscience.com	Charlotte Barber
	PP-LA-288	05/1/2011	04/30/2014	GENEOHM SCIENCES INC	Anita Patel	8002197174	anita_patel@bd.com	Charlotte Barber
Near Patient Testing (NPT) - Clinical Chemistry/Immunoassay	PP-LA-305	11/01/2011	10/31/2014	bioMerieux, Inc.	Michael Profenno	8006822666	michael.profenno@biomerieux.com	Charlotte Barber
Open Channel Reagents	PP-LA-258 AS-LA-258	04/01/2010	03/31/2013	Siemens Healthcare Diagnostics Inc.	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-286	01/01/2011	03/31/2013	ABBOTT LABORATORIES INC.	Ronald Burke	847.937.1133	ronald.burke@abbott.com	Charlotte Barber
Platelet Function Analyzers, Reagents, Consumables and Service	PP-LA-283 AS-LA-283	04/01/2011	03/31/2014	SIEMENS HEALTHCARE DIAGNOSTICS INC	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
Point of Care (POC) Blood Gas and Additional Tests	PP-LA-299	07/01/2011	03/31/2013	Alere	Nancy McGinty	978.846.1771	nancy.mcginty@alere.com	Charlotte Barber
Point of Care (POC) Creatinine	PP-LA-291	07/01/2011	03/31/2013	Nova Biomedical Corporation	Dick Schneider	9498422659	dschneider@novabio.com	Charlotte Barber
Point of Care (POC) Hemoglobin	PP-LA-295	07/01/2011	03/31/2013	Hemocue, Inc.	Marnie Havas	4126577871	marnie.d.havas@hemocue.com	Charlotte Barber
Point-of-Care (POC) Coagulation Meters, Reagents, Consumables and Service	PP-LA-271 AS-LA-271	09/01/2010	08/31/2013	International Technidyne Corporation	William Healy	800.272.1252 x 351	bhealy@itcmed.com	Charlotte Barber
Specialty Distribution - Laboratory and/or Research Products	PP-LA-329	01/01/2013	12/31/2015	Fisher Healthcare	Ann Folker	2059369072	ann.folker@thermofisher.com	Rachel Franklin
	PP-LA-328	01/01/2013	12/31/2015	Cardinal Health 200 Inc	Tony Hunt	7045174532	tony.hunt@cardinalhealth.com	Rachel Franklin
	PP-LA-331	01/01/2013	12/31/2015	Laboratory Supply Company, Inc	George Ksenich	800.888.5227 x1036	gksenich@labsco.com	Rachel Franklin
	PP-LA-330	01/01/2013	12/31/2015	Infolab Inc	Tammy Bridges	3362722874	tammybridges@infolabinc.com	Rachel Franklin
Specialty Distribution - Research	RS-LA-001	08/01/2011	07/31/2014	VWR International	David Ray	615.337.5738	david_ray@vwr.com	Charlotte Barber
Transfusion, Blood Donor Services, Equipment and Supplies	PP-LA-318	10/01/2012	09/30/2015	Pall Corporation	Timothy Lynch	7084226196	tim_lynch@pall.com	Charlotte Barber
Urinalysis Analyzers, Reagents, Consumables and Service	PP-LA-270 AS-LA-270	08/01/2010	07/31/2013	Siemens Healthcare Diagnostics Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-269	08/01/2010	07/31/2013	Iris Diagnostics	Scott Milsom	407.688.2532	scott.milsom@proiris.com	Charlotte Barber



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Imaging								
Bone Densitometry	PP-IM-183	10/01/2012	09/30/2015	GE Healthcare	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Dave Natale
	PP-IM-204	10/01/2012	09/30/2015	Hologic Inc	Robert Scholl	440.321.2914	robert.scholl@hologic.com	Dave Natale
Brachytherapy Systems	PP-IM-147	05/01/2010	02/28/2013	Xoft Inc	Robert Kirby	408.419.2317	rkirby@xoftinc.com	Dave Natale
Cardiovascular Imaging (Cardiac Catheterization, Vascular Systems)	PP-IM-184	10/01/2012	09/30/2015	GE Healthcare	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Dave Natale
	PP-IM-192	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-198	10/01/2012	09/30/2015	Toshiba America Medical Systems, Inc.	Angie Ferguson	847.910.5027	aferguson@tams.com	Dave Natale
Computed Radiography	PP-IM-216	01/01/2013	12/31/2015	Agfa Healthcare Corporation	Ray Russell	8644211747	ray-russell@agfa.com	Dave Natale
	PP-IM-218	01/01/2013	12/31/2015	Carestream Health Inc	Lisa Frank	770.977.3660	lisa.frank@carestreamhealth.com	Dave Natale
	PP-IM-219	01/01/2013	12/31/2015	Philips Healthcare	Peter Grant	703.464.0901	peter.grant@philips.com	Dave Natale
	PP-IM-215	01/01/2013	12/31/2015	Fujifilm Medical Systems USA, Inc.	Tony Briley	615.594.7168	tony.briley@fujimed.com	Dave Natale
	PP-IM-217	01/01/2013	12/31/2015	Konica Minolta Medical Imaging USA Inc	William Rempe	941.355.1362	wrempe@mi.konicaminolta.us	Dave Natale
Computed Tomography	PP-IM-185	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	888.501.2927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-193	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-199	10/01/2012	09/30/2015	Toshiba America Medical Systems, Inc.	Angie Ferguson	847.910.5027	aferguson@tams.com	Dave Natale
Contrast Media Injectors / Disposables	PP-IM-168 AS-IM-168	01/01/2012	12/31/2014	Bracco Diagnostics, Inc	Cheri Fisher	515.681.3566	cheri.fisher@diag.bracco.com	Dave Natale
	PP-IM-169	01/01/2012	12/31/2014	Mallinckrodt, Inc	Greg Goodall	7574509234	greg.goodall@covidien.com	Dave Natale
	PP-IM-170	01/01/2012	12/31/2014	Medrad, Inc.	Cameron Cook	412.767.2400	ccook@medrad.com	Dave Natale
Conventional Film, Dry Media and Printers	PP-IM-160	09/01/2011	08/31/2013	Fujifilm Medical Systems USA, Inc.	Tony Briley	6155947168	tbriley@fujifilm.com	Dave Natale
	PP-IM-159	09/01/2011	08/31/2014	Agfa Healthcare Corporation	Ray Russell	8644211747	ray-russell@agfa.com	Dave Natale
External Beam Radiation Therapy Systems	PP-IM-139	05/15/2010	02/28/2013	Elekta, Inc.	Holly Hatchett	6157929916	holly.hatchett@elekta.com	Dave Natale
	PP-IM-158	04/01/2011	02/28/2013	Sensus Healthcare	Rick Golin	5619225808	rick@sensushealthcare.com	Dave Natale
General Radiography (Radiography, Radiography & Fluoroscopy, C-Arms, Portable Radiography)	PP-IM-180	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	888.501.2927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-189	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-197	10/01/2012	09/30/2015	Toshiba America Medical Systems, Inc.	Angie Ferguson	847.910.5027	aferguson@tams.com	Dave Natale
	PP-IM-211	10/01/2012	09/30/2015	Fujifilm Medical Systems USA, Inc.	Tony Briley	6155947168	tbriley@fujifilm.com	Dave Natale



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	PP-IM-212	10/01/2012	09/30/2015	Agfa Healthcare Corporation	Nikesha Williams	864.421.1721	nikesha.williams@agfa.com	Dave Natale
	PP-IM-213	10/01/2012	09/30/2015	Konica Minolta Medical Imaging USA Inc	William Rempe	941.355.1362	wrempe@mi.konicaminolta.us	Dave Natale
	PP-IM-214	10/01/2012	09/30/2015	Carestream Health	Mary Lanni	203.918.1248	marylouise.lanni@carestream.com	Dave Natale
Magnetic Resonance Imaging	PP-IM-186	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	8885012927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-194	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-200	10/01/2012	09/30/2015	Toshiba America Medical Systems, Inc.	Angie Ferguson	8479105027	aferguson@tams.com	Dave Natale
	PP-IM-205	10/01/2012	09/30/2015	Hologic Inc	Robert Scholl	440.321.2914	robert.scholl@hologic.com	Dave Natale
	PP-IM-207	10/01/2012	09/30/2015	Invivo Corporation	Kenneth Rhodes	919.671.6018	krhodes@invivocorp.com	Dave Natale
Mammography Products and Services	PP-IM-182	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	8885012927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-191	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-203	10/01/2012	09/30/2015	Hologic Inc	Robert Scholl	440.321.2914	robert.scholl@hologic.com	Dave Natale
	PP-IM-206	10/01/2012	09/30/2015	Faxitron Bioptics	Paul Murtagh	520.399.8180	pmurtagh@faxitron.com	Dave Natale
Mobile C-Arms	PP-IM-181	10/01/2012	09/30/2015	GE-OEC Medical Systems	Stephen Raque	800.728.6596	stephen.raque@med.ge.com	Dave Natale
	PP-IM-190	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-202	10/01/2012	09/30/2015	Hologic Inc	Robert Scholl	440.321.2914	robert.scholl@hologic.com	Dave Natale
	PP-IM-208	10/01/2012	09/30/2015	Ziehm Imaging Inc	Bernie Byers	407.615.8560	bernie.byers@ziehm.com	Dave Natale
Molecular Imaging (Nuclear Medicine, PET/PET-CT)	PP-IM-187	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	8885012927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-195	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
MRI Compatible Monitoring Equipment (Patient Monitoring, Infusion Pumps)	PP-IM-176 AS-IM-176	01/01/2011	01/31/2015	IRadimed Corporation	Todd Weber	770.842.7132	tweber@iradimed.com	Dave Natale
	PP-IM-177 AS-IM-177	01/01/2011	01/31/2015	Invivo Corporation	Kenneth Rhodes	919.671.6018	krhodes@invivocorp.com	Dave Natale
	PP-IM-178	01/01/2011	01/31/2015	Medrad, Inc.	Cameron Cook	412.767.2400	ccook@medrad.com	Dave Natale
Radiation Oncology Information Systems	PP-IM-142	05/15/2010	02/28/2013	Elekta, Inc.	Holly Hatchett	615.792.9916	holly.hatchett@elekta.com	Dave Natale



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Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Contract Manager / Director
Radiation Treatment Planning Systems	PP-IM-144	05/15/2010	02/28/2013	Elekta, Inc.	Holly Hatchett	615.792.9916	holly.hatchett@elekta.com	Dave Natale
	PP-IM-145	05/15/2010	02/28/2013	Philips Healthcare	Peter Grant	703.464.0901	peter.grant@philips.com	Dave Natale
Specialty Distribution - Imaging / Radiation Oncology Equipment and Supplies	PP-IM-179	04/01/2012	03/31/2015	National Healthcare Distribution	William Mena	805.581.1980	bmena@nhd.net	Dave Natale
Ultrasound (Radiology, Cardiology, Hand Carried)	PP-IM-188	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	8885012927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-196	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-201	10/01/2012	09/30/2015	Toshiba America Medical Systems, Inc.	Angie Ferguson	8479105027	aferguson@tams.com	Dave Natale
	PP-IM-209	10/01/2012	09/30/2015	Sonosite, Inc.	Dean Ehlers	262.827.9311	dean.ehlers@sonosite.com	Dave Natale
	PP-IM-210	10/01/2012	09/30/2015	Mindray DS USA	John Tull	201.995.8000	j.tull@mindray.com	Dave Natale
Nursing								
Airway Clearance Products	PP-NS-697	05/01/2012	04/30/2015	Hill-Rom Company, Inc.	Diane Kessens	812.934.8338	diane.kessens@hill-rom.com	Rosanna Rumbough
	PP-NS-699	05/01/2012	04/30/2015	Electromed Inc	Patti Radford	952.758.0359	pradford@electromed-usa.com	Charon Byrd
	PP-NS-698	05/01/2012	04/30/2015	Thayer Medical Corporation	Bridget Riceci	520.790.5393 x 2290	bridget.riceci@thayermedical.com	Meg Wyatt
Dialysis Products and Accessories	PP-NS-693	11/01/2011	10/31/2014	B. Braun Medical Inc.	Sam Amory	6106915400	sam.amory@bbraun.com	Charon Byrd
Electronic Thermometry	PP-NS-667 AS-NS-667	06/1/2011	05/31/2014	WELCH ALLYN INC	Dean Goldberg	800.769.4014 x 3125	goldbergd@welchallyn.com	Rosanna Rumbough
	PP-NS-668	06/1/2011	05/31/2014	EXERGEN CORPORATION	Marybeth Pompei	6179239900	mpompei@exergen.com	Rosanna Rumbough
Invasive Hemodynamic Monitoring Products and Accessories	PP-NS-673	07/01/2011	06/30/2014	EDWARDS LIFESCIENCES CORPORATION	Kristina Reyes	9492502642	kristina_reyes@edwards.com	Meg Wyatt
	PP-NS-674 AS-NS-674	07/01/2011	06/30/2014	ICU MEDICAL INC.	Mark Jorgensen	949.366.3550	mjorgensen@icumed.com	Charon Byrd
IV Therapy Products - Large Volume, PCA, Syringe Pumps with Pump Specific Sets	PP-IV-010	02/01/2009	01/31/2014	Carefusion 303	Joan Roberts	8174943916	joan.roberts@carefusion.com	Rosanna Rumbough
	PP-IV-013	02/01/2009	01/31/2014	Baxter Healthcare Corporation	Bob Buthod	8472705011	bob_buthod@baxter.com	Meg Wyatt
	PP-IV-014	02/01/2009	01/31/2014	Excelsior Medical Corporation	Anthony Saia	8475339189	tsaia@excelsiormedical.com	Meg Wyatt
	PP-IV-015	02/01/2009	01/31/2014	Hospira Worldwide	Dale Overcash	7048929870	dale.overcash@hospira.com	Charon Byrd
	PP-IV-017	02/01/2009	01/31/2014	Sigma International General Medical Apparatus LLC	Bob Buthod	8472705011	bob_buthod@baxter.com	Meg Wyatt
	PP-IV-018	02/01/2009	01/31/2014	Smiths Medical MD Inc	Juliet Larson	9726790889	juliet.larson@smiths-medical.com	Meg Wyatt
IV Therapy Products - TPN Compounders, Filling Devices, Elastomeric Pumps, and Admixture Products	PP-IV-041	02/01/2009	01/31/2014	Baxa Corporation	Steve Welch	3036172105	steve.welch@baxa.com	Meg Wyatt
	PP-IV-043	02/01/2009	01/31/2014	Baxter Healthcare Corporation	Bob Buthod	8472705011	bob_buthod@baxter.com	Meg Wyatt
	PP-IV-045	02/01/2009	01/31/2014	Hospira Worldwide	Dale Overcash	7048929870	dale.overcash@hospira.com	Charon Byrd
IV Therapy Products: Pharmacy Capital Equipment and Admixture Supplies	PP-IV-042	02/01/2009	01/31/2014	B. Braun Medical Inc.	William Miller	5135617224	bill.miller@bbraun.com	Charon Byrd



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IV Therapy Products: Non-Pharmacy Capital Equipment	PP-IV-012	02/01/2009	01/31/2014	B. Braun Medical Inc.	William Miller	5135617224	bill.miller@bbraun.com	Charon Byrd
Negative Pressure Wound Therapy	PP-NS-652	03/1/2011	05/31/2013	SMITH NEPHEW INC WOUND MANAGEMENT DIVISION	Dan Murphy	6365309906	dan.murphy@smith-nephew.com	Meg Wyatt
	AS-NS-652							
	PP-NS-651	03/1/2011	05/31/2013	KCI USA INC	Wes Snodgrass	7704231123	wes.snodgrass@kci1.com	Meg Wyatt
Patient Bedside Products	PP-NS-669	07/01/2011	06/30/2014	Medical Action Industries, Inc.	John Dinapoli	6314043770	john.dinapoli@medical-action.com	Rosanna Rumbough
	PP-NS-670	07/01/2011	06/30/2014	Medline Industries Inc.	Mark Parry	7049622111	mparry@medline.com	Meg Wyatt
	PP-NS-671	07/01/2011	06/30/2014	Vernacare Inc.	Lynn-Marie Green	8002682422	lynn-marie_green@vernacare.com	Charon Byrd
	PP-NS-672	07/01/2011	06/30/2014	Church Products	Judith Church	8003178161	judi@comfortpan.com	Meg Wyatt
Patient Lifts and Lateral Transfer Devices	PP-NS-709	08/01/2012	07/31/2015	ArjoHuntleigh Inc	Don Webster	602.751.2398	donald.webster@arjohuntleigh.com	Rosanna Rumbough
	PP-NS-710	08/01/2012	07/31/2015	THE Medical	Anthony Febbraro	410.363.1515	afebbraro@themedical.com	Rosanna Rumbough
	PP-NS-711	08/01/2012	07/31/2015	Joerns Healthcare Inc	Jack Sheehan	980.875.0244	jack.sheehan@joerns.com	Rosanna Rumbough
	PP-NS-712	08/01/2012	07/31/2015	Hill-Rom Company, Inc.	Diane Kessens	812.934.8338	diane.kessens@hill-rom.com	Rosanna Rumbough
	PP-NS-714	08/01/2012	07/31/2015	EZ Way Inc	Mary Landhuis	712.542.5102 x1810	mlandhuis@ezlifts.com	Rosanna Rumbough
	PP-NS-715	08/01/2012	07/31/2015	Guldmann, Inc.	Linda Bowman	813.880.0619 x202	lb@guldmann.net	Charon Byrd
	PP-NS-716	08/01/2012	07/31/2015	Hovertech International	Stacey Bailey	610.694.9600 x104	sbailey@hovermatt.com	Rosanna Rumbough
	PP-NS-717	08/01/2012	07/31/2015	McAuley Medical	John McAuley	603.227.7287	john@mcauleymedical.com	Meg Wyatt
	PP-NS-718	08/01/2012	07/31/2015	RoMedic Inc	Hans Sigvardsson	888.625.4343	hans.sigvardsson@romedic.com	Meg Wyatt
	PP-NS-719	08/01/2012	07/31/2015	Smart Medical Technology Inc	Curtis Pouncy	630.964.1689	cpouncy@smartmedtechnology.com	Charon Byrd



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Patient Temperature Management Products and Accessories	PP-NS-666	07/01/2011	06/30/2014	Life Recovery Systems HD LLC	Robert Neary	9732832800	rneary@life-recovery.com	Meg Wyatt
	PP-NS-663	07/01/2011	06/30/2014	Cincinnati Sub-Zero Products, Inc.	Dave Hensley	5137728810	dhensley@cszinc.com	Rosanna Rumbough
	PP-NS-664	07/01/2011	06/30/2014	Philips Medical Systems	Douglas Mccannel	8587139524	douglas.mccannel@philips.com	Rosanna Rumbough
	PP-NS-661	07/01/2011	06/30/2014	Stryker Corporation	Shri Parikh	2683852600	shri.parikh@stryker.com	Meg Wyatt
	PP-NS-662	07/01/2011	06/30/2014	Adroit Medical Systems Inc	Scott Gammons	8654588600	scott@adroitmedical.com	Rosanna Rumbough
Pulse Oximetry Devices	PP-NS-700	06/01/2012	02/28/2015	Covidien	Greg Goodall	7574509234	greg.goodall@covidien.com	Rosanna Rumbough
	PP-NS-701	06/01/2012	02/28/2015	Masimo Americas	Thomas Coy	4405460794	tcoy@masimo.com	Rosanna Rumbough
	PP-NS-702	06/01/2012	02/28/2015	Smiths Medical	Juliet Larson	972.679.0889	juliet.larson@smiths-medical.com	Meg Wyatt
Sedation Monitoring	PP-NS-752	01/01/2013	07/30/2015	Covidien US	Greg Goodall	508.261.8213	greg.goodall@covidien.com	Rosanna Rumbough
	PP-NS-753	01/01/2013	07/30/2015	Masimo Americas	Thomas Coy	440.546.0794	tcoy@masimo.com	Rosanna Rumbough
Vascular Compression Therapy	PP-NS-739	12/1/2012	11/30/2015	ArjoHuntleigh, Inc	Don Webster	602.751.2398	donald.webster@arjohuntleigh.com	Charon Byrd
	PP-NS-738	12/1/2012	11/30/2015	Covidien, US	Greg Goodall	508.261.8213	greg.goodall@covidien.com	Rosanna Rumbough
	PP-NS-740 AS-NS-740	12/1/2012	11/30/2015	Compression Therapy Concepts	Frank Ripullo	800.993.9013	fripullo@ctcdvt.com	Meg Wyatt
Pharmacy								
Automated Medication Distribution	PPPH14AMT01	07/01/2011	06/30/2014	Automed Technologies, Inc	Chris Leeds	407.701.0324	cleeds@amerisourcebergen.com	Michele Eller
	PPPH14CFS01	07/01/2011	06/30/2014	Carefusion Solutions, Inc	Cathy Meyers	612.275.4081	cathy.meyers@carefusion.com	Michele Eller
	PPPH14MBH01	07/01/2011	06/30/2014	Mckesson Automation, Inc	Lisa Henke	727.859.4350	lisa.henke@mckesson.com	Michele Eller
	PPPH14OMN01	07/01/2011	06/30/2014	Omniceil, Inc	Mike Dean	650.251.6200	miked@omnicell.com	Michele Eller
	PPPH14PSS01	07/01/2011	06/30/2014	PAR Excellence Systems, Inc.	Dick Felger	513.936.9744	dfelger@parexcellencesystems.com	Michele Eller
	PPPH14SWS01	07/01/2011	06/30/2014	Swisslog Management AG	Robin Arnold	303.576.8890	robin.arnold@swisslog.com	Michele Eller
Outpatient Pharmacy Technology	PPPH14KIR01	07/01/2011	06/30/2014	Kirby Lester, LLC	Mike Turone	847.984.0304	mturone@kirbylester.com	Michele Eller
	PPPH14ASR01	01/01/2012	06/30/2014	Asteres Inc.	David Clark	858.777.8602	dclark@asteres.com	Michele Eller
	PPPH14RXS01	07/01/2011	06/30/2014	Rx Security, Inc	Tricia Brommit	800.667.9723	tbrommit@rxsecurity.com	Michele Eller
Pharmacy Refrigerators	PPPH12AMA02	03/01/2011	02/28/2014	AMA Scientific, LLC	Josh Camp	609.267.2508	josh.camp@amascientific.com	Michele Eller
	PPPH12HLM01	03/01/2011	02/28/2014	Helmer, Inc.	Shannon Krenz	800.743.5637 x 3926	skrenz@helmerinc.com	Michele Eller
IV Robotics - Prep and Filling Devices	PPPH15CMC01	03/01/2012	02/28/2015	Chemocato, LLC	Thomas /herndi	212.473.2362	therndl@chemocato.com	Michele Eller
Primary Control Devices (IV Hoods)	PPPH13BAK01	07/01/2010	06/30/2013	The Baker Company	Cybelle Guerrero	800.992.2537	cybellebakerco@aol.com	Michele Eller
	PPPH13NUA01	07/01/2010	06/30/2013	Nuair, Inc	Holly Milless	800.328.3352 x 276	hmilless@nuair.com	Michele Eller
	PPPH14ISX01	04/01/2011	03/31/2014	Isensix	Donna Shaw	312.848.5200	dshaw@isensix.com	Michele Eller



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Wireless Temperature Monitoring	PPPH14REE01	04/01/2011	03/31/2014	Rees Scientific	Len Manzie	609.530.1055	contracts@reesscientific.com	Michele Eller
	PPPH14SNS01	04/01/2011	03/31/2014	SensoScientific Inc	Patricia Schaefer	805.823.8400	pat@sensotechnologies.com	Michele Eller
	PPPH14CPR01	02/15/2012	03/31/2014	Cooper-Atkins Corporation	Glenn Marcus	847.373.2033	gmarcus@cooper-atkins.com	Michele Eller
	PPPH14TMP01	04/01/2011	03/31/2014	Tempsys Inc	Craig Austin	510.526.7624	ca@tempsys.net	Michele Eller
Support Services								
Bulk Oxygen	PP-MM-070	11/01/2009	10/31/2014	Air Liquide Healthcare	Troy Fowler	5124179803	troy.fowler@airliquide.com	Beth Randolph
	PP-MM-071	11/01/2009	10/31/2014	Airgas, Inc	Jerry Anderskow	6027513109	jerry.anderskow@airgas.com	Beth Randolph
	PP-MM-072	11/01/2009	10/31/2014	Lifegas	Brian Curd	9087711731	briancurd@linde.com	Beth Randolph
	PP-MM-073	11/01/2009	10/31/2014	Praxair, Inc	Charles Tortorello	6303204168	chuck_tortorello@praxair.com	Beth Randolph
High Frequency Oscillatory and Intensive Care Ventilators	PP-MM-139	07/1/2011	06/30/2014	CareFusion 211	Joan Roberts	8174943916	joan.roberts@carefusion.com	Chris Dismuke
	PP-MM-141	07/1/2011	06/30/2014	Draeger Medical Inc	Ron Brito	6158155583	ron.brito@draeger.com	Chris Dismuke
	PP-MM-140	07/1/2011	06/30/2014	Nellcor Puritan Bennett, Inc.	Greg Goodall	7574509234	greg.goodall@covidien.com	Chris Dismuke
	PP-MM-142	07/1/2011	06/30/2014	Maquet, Inc.	Greg Patrick	7703311450	greg.patrick@maquet-inc.com	Chris Dismuke
	PP-MM-143	07/1/2011	06/30/2014	Newport Medical Instruments	Patti Gunter	214.399.1062	pgunter@newportmedical.com	Chris Dismuke
Patient Beds, Mattresses and Therapeutic Surfaces - Purchase	PP-MM-079	03/01/2010	02/28/2013	ARJOHuntleigh	Don Webster	6027512398	donald.webster@arjohuntleigh.com	Chris Dismuke
	PP-MM-080	03/01/2010	02/28/2013	Hill-Rom Company, Inc.	April Ngo	6158154030	april.ngo@hill-rom.com	Chris Dismuke
	PP-MM-081	03/01/2010	02/28/2013	Stryker	Shri Parikh	2683852600	shri.parikh@stryker.com	Chris Dismuke
	PP-MM-082	03/01/2010	02/28/2013	Hill-Rom Company, Inc.	Diane Kessens	812.934.8338	diane.kessens@hill-rom.com	Chris Dismuke
	PP-MM-083	03/01/2010	02/28/2013	KCI USA Inc	Jason Hoffman	5857648158	Jason.Hoffman@kci1.com	Chris Dismuke
	PP-MM-084	03/01/2010	02/28/2013	Stryker Medical	Shri Parikh	2683852600	shri.parikh@stryker.com	Chris Dismuke
	PP-MM-174	02/01/2012	02/28/2013	Sizewise Rentals	Karen Campbell	608.347.3280	kcampbell@sizewise.net	Chris Dismuke



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Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Contract Manager / Director
Physiological Monitoring Systems	PP-MM-162	03/01/2012	02/28/2015	Authentidate Holding Corp	Seth Loonan	9087871855	sloonan@authentidate.com	Chris Dismuke
	PP-MM-163	03/01/2012	02/28/2015	CJPS Healthcare Supplies and Equipment	Christophe Sevrain	2485931264	christophe@cjps-healthcare.com	Chris Dismuke
	PP-MM-164	03/01/2012	02/28/2015	GE Medical Systems Information Technologies, Inc.	Curtis Marks	9196762346	curtis.marks@med.ge.com	Chris Dismuke
	PP-MM-165	03/01/2012	02/28/2015	Nihon Kohden America, Inc.	Jim Fagan	8003250283	jim_fagan@nkusa.com	Chris Dismuke
	PP-MM-166	03/01/2012	02/28/2015	Philips Healthcare	Ron Sanders	6103047622	r.l.sanders@philips.com	Chris Dismuke
	PP-MM-167 AS-MM-167	03/01/2012	02/28/2015	Welch Allyn Inc	Dean Goldberg	8007694014	goldbergd@welchallyn.com	Chris Dismuke
Polysomnography, Neurological Equipment and Accessories	PP-MM-097	05/01/2010	04/30/2013	Cadwell Laboratories, Inc.	Theresa Sickler	8002453001	theresas@cadwell.com	Chris Dismuke
	PP-MM-098	05/01/2010	04/30/2013	Nihon Kohden America, Inc.	Jim Fagan	8003250283	jim_fagan@nkusa.com	Chris Dismuke
Pulmonary Function and Metabolic Analyzers	PP-MM-136	07/01/2011	06/30/2014	Alliance Tech Medical, Inc.	Jeffrey Janisch	N/A	jjanisch@alliancetechmedical.com	Chris Dismuke
	PP-MM-138	07/01/2011	06/30/2014	Medical Graphics Corporation	Maureen Vandal	6514844874	mvandal@medgraphics.com	Chris Dismuke
	PP-MM-137	07/01/2011	06/30/2014	CareFusion 211	Joan Roberts	8174943916	joan.roberts@carefusion.com	Chris Dismuke
Stretchers	PP-MM-089	03/01/2010	02/28/2013	Hill-Rom Company, Inc.	Diane Kessens	812.934.8338	diane.kessens@hill-rom.com	Chris Dismuke
	PP-MM-090	03/01/2010	02/28/2013	Stryker Medical	Shri Parikh	2683852600	shri.parikh@stryker.com	Chris Dismuke
	PP-MM-091	03/01/2010	02/28/2013	Transmotion Medical, Inc.	Ryan Yerkey	3302394192	ryanyerkey@transmotionmedical.com	Chris Dismuke
Wall Desks and Patient Charting Equipment and Supplies	PP-MM-117 AS-MM-117	01/01/2011	04/30/2013	First Hospital Products, Inc.	Tom Mislin	7167317814	tmislin@firstproducts.com	Beth Randolph
Surgical Services								
Anesthesia Equipment	PP-OR-642 AS-OR-642	07/01/2010	06/30/2013	GE Medical Systems Information Technologies, Inc.	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Ben Robinson
	PP-OR-643 AS-OR-643	07/01/2010	06/30/2013	Draeger Medical Inc	Ron Brito	6158155583	ron.brito@draeger.com	Ben Robinson
	PP-OR-644	07/01/2010	06/30/2013	Penlon America	Brandon Ho	314.719.7527	brandon.ho@penlin.com	Ben Robinson
Arthroscopy Supplies	PP-OR-630	05/01/2010	04/30/2013	Conmed / Linvatec	Robert Deluca	7045547367	bobdeluca@conmed.com	Ben Robinson
	PP-OR-631	05/01/2010	04/30/2013	Stryker	Shri Parikh	2683852600	shri.parikh@stryker.com	Kimberly Diewald
	PP-OR-632	05/01/2010	04/30/2013	Smith & Nephew Inc Endoscopy Division	Dan Murphy	6365309906	dan.murphy@smith-nephew.com	Brian Maas
Automated Endoscopic Reprocessor	PP-OR-815	03/01/2012	02/28/2015	Johnson & Johnson Health Care Systems, Inc.	Kit Schumaker	2673373146	kschumak@its.jnj.com	Ben Robinson
	PP-OR-816	03/01/2012	02/28/2015	Minntech Corp	Gil Rico	6128053614	grico@minntech.com	Christian Flohr
	PP-OR-817 AS-OR-817	03/01/2012	02/28/2015	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Ben Robinson
ETO Sterilizers	PP-OR-814	03/01/2012	02/28/2015	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Kimberly Diewald



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Gas Plasma Sterilization	PP-OR-819	03/01/2012	02/28/2015	Johnson & Johnson Health Care Systems, Inc.	Kit Schumaker	2673373146	kschumak@its.jnj.com	Ben Robinson
	PP-OR-820 AS-OR-820	03/01/2012	02/28/2015	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Kimberly Diewald
Gastrointestinal Endoscopy Products	PP-OR-496	01/01/2009	01/31/2013	Boston Scientific Company	Bob Laird	8006979420	lairdb@bsci.com	Kimberly Diewald
	PP-OR-497	01/01/2009	01/31/2013	Cook Medical, Inc.	Ken Calabrese	8004574448	ken.calabrese@cookmedical.com	Kimberly Diewald
Liquid Medical Waste Management Systems	PP-OR-768	11/01/2011	10/31/2014	Deroyal Industries Inc	Erik Osland	6027439688	eosland@deroyal.com	Brian Maas
	PP-OR-769	11/01/2011	10/31/2014	Dornoch Medical Systems, Inc.	Kristen Wiese	7732792229	kwiese@dornoch.com	Ben Robinson
	PP-OR-770 AS-OR-770	11/01/2011	10/31/2014	Stryker Corporation	Shri Parikh	268.385.2600	shri.parikh@stryker.com	Kimberly Diewald
Medical Lasers and Light Based Systems	PP-OR-864	05/01/2012	04/30/2015	Lumenis	Mark Merritt	408.764.3000	mark.merritt@lumenis.com	Brian Maas
	PP-OR-863 AS-OR-863	05/01/2012	04/30/2015	MaxiFlex LLC	Derek Levesque	504.265.8972	dlevesque@maxiflexllc.com	Brian Maas
	PP-OR-862 AS-OR-862	05/01/2012	04/30/2015	Laser Engineering	Brian Sanders	615.231.4506	b.sanders@sslaserengineering.com	Brian Maas
Neurosurgical Products	PP-OR-759	09/01/2011	08/31/2014	INTEGRA NEUROSCIENCES	Christopher Bartlett	3212467107	christopher.bartlett@integralife.com	Kimberly Diewald
	PP-OR-760	09/01/2011	08/31/2014	Misonix Inc	Stephen George	6319279116	sgeorge@misonix.com	Ben Robinson
	PP-OR-761	09/01/2011	08/31/2014	Stryker	Shri Parikh	2683852600	shri.parikh@stryker.com	Kimberly Diewald
	PP-OR-758	09/01/2011	08/31/2014	Aesculap, Inc.	John Hay	7705600740	john.hay@aesculap.com	Kimberly Diewald



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OR Integration/Automation Systems	PP-OR-771	01/01/2012	12/31/2014	Nuvo, Inc.	Brett Messina	8148994220	brett.messina@nuvosurgical.com	Christian Flohr
	PP-OR-772	01/01/2012	12/31/2014	Olympus America, Inc.	Cliff Echard	8006458100	cliff.echard@olympus.com	Ben Robinson
	PP-OR-773	01/01/2012	12/31/2014	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Kimberly Diewald
	PP-OR-774	01/01/2012	12/31/2014	Skytron	Michael Breslin	6023217048	mbreslin@skytron.us	Ben Robinson
	PP-OR-775	01/01/2012	12/31/2014	Oasys Healthcare Corporation	Dave Stinson	9058523399	dstinson@oasyshealthcare.com	Christian Flohr
	PP-OR-780	01/01/2012	12/31/2014	Stryker Corporation	Shri Parikh	2683852600	shri.parikh@stryker.com	Kimberly Diewald
OR Lights and Booms	PP-OR-593	02/01/2010	01/31/2013	Maquet, Inc.	Bryce Fehr	8886278383	bryce.fehr@maquet-inc.com	Christian Flohr
	PP-OR-594	02/01/2010	01/31/2013	Berchtold Corporation	Steve de Vries	8435696100	steve.devries@berchtold.biz	Brian Maas
	PP-OR-595	02/01/2010	01/31/2013	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Kimberly Diewald
	PP-OR-596	02/01/2010	01/31/2013	Stryker Corporation	Shri Parikh	2683852600	shri.parikh@stryker.com	Kimberly Diewald
	PP-OR-597	02/01/2010	01/31/2013	Nuvo, Inc.	Brett Messina	8148994220	brett.messina@nuvosurgical.com	Christian Flohr
	PP-OR-598	02/01/2010	01/31/2013	Skytron	Michael Breslin	6023217048	mbreslin@skytron.us	Ben Robinson
	PP-OR-599	02/01/2010	01/31/2013	Amico Corporation	Marco Acchione	905.764.0800	macchione@amico.com	Christian Flohr
	PP-OR-600	02/01/2010	01/31/2013	Trumpf Medical Systems	Andy Reding	8435340606	andy.reding@us.trumpf-med.com	Christian Flohr
OR Tables	PP-OR-587	02/01/2010	01/31/2013	Maquet, Inc.	Bryce Fehr	8886278383	bryce.fehr@maquet-inc.com	Christian Flohr
	PP-OR-588	02/01/2010	01/31/2013	Skytron	Michael Breslin	6023217048	mbreslin@skytron.us	Ben Robinson
	PP-OR-589	02/01/2010	01/31/2013	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Kimberly Diewald
	PP-OR-590	02/01/2010	01/31/2013	Berchtold Corporation	Steve de Vries	8435696100	steve.devries@berchtold.biz	Brian Maas
	PP-OR-591 AS-OR-591	02/01/2010	01/31/2013	Nuvo, Inc.	Brett Messina	814.899.4220	brett.messina@nuvosurgical.com	Christian Flohr
	PP-OR-592	02/01/2010	01/31/2013	Trumpf Medical Systems	Andy Reding	843.534.0084	andy.reding@us.trumpf-med.com	Christian Flohr
Orthopedic Power Tools and Accessories	PP-OR-638	05/01/2010	04/30/2013	Brasseler USA	David Bulman	912.925.8525	davidbulman@brasslerusa.com	Brian Maas
	PP-OR-639 AS-OR-639	05/01/2010	04/30/2013	Conmed / Linvatec	Robert Deluca	704.554.7367	bob_deluca@mail.conmed.com	Ben Robinson
	PP-OR-640	05/01/2010	04/30/2013	Microaire Surgical Instruments, Inc.	Greg Burns	434.975.8375	greg.burns@microaire.com	Brian Maas
	PP-OR-641	05/01/2010	04/30/2013	Stryker Instruments	Shri Parikh	268.385.2600	shri.parikh@stryker.com	Kimberly Diewald
Perfusion Products	PP-OR-800	02/01/2012	01/31/2015	Terumo Cardiovascular Systems	Michael Buscemi	800.262.3304 x 6874	michael.buscemi@terumomedical.com	Brian Maas
	PP-OR-798	02/01/2012	01/31/2015	Medtronic Usa, Inc.	Tim Howard	763.514.4000	tim.howard@medtronic.com	Brian Maas



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	PP-OR-799	02/01/2012	01/31/2015	Sorin Group S.p.a.	Keith Robbins	303.467.6636	keith.robbs@sorin.com	Brian Maas
Refurbished OR Capital Equipment	PP-OR-951	10/01/2012	09/30/2015	Future Health Concept	Kimberly Kern	407.322.3672	kkern@fhcusa.com	Christian Flohr
	PP-OR-952	10/01/2012	09/30/2015	Heartland Medical Sales and Services, LLC	Michael Dirr	502.671.1014	Mdirr@heartlandmeds.com	Christian Flohr
	PP-OR-953	10/01/2012	09/30/2015	Metropolitan Medical Services	Jeffrey Rhinehart	828.250.0171	j.rhinehart@metropolitanmed.com	Christian Flohr
	PP-OR-954	10/01/2012	09/30/2015	Steris Corporation	Brian Thomas	636.273.5845	brian_thomas@steris.com	Christian Flohr
	PP-OR-955	10/01/2012	09/30/2015	World Medical Equipment	Kevin Grant		kgrant@worldmedicalequip.com	Christian Flohr
Smoke Evacuation Systems and Related Accessories	PP-OR-669	09/01/2010	08/31/2013	Medline Industries Inc.	Mark Parry	704.814.0941	mparry@medline.com	Kimberly Diewald
	PP-OR-668 AS-OR-668	09/01/2010	08/31/2013	Microtek Medical, Inc.	Brenda Valente	952.401.1989	brenda.valente@ecolab.com	Christian Flohr
	PP-OR-667	09/01/2010	08/31/2013	Buffalo Filter	Kathleen Albon	716.835.7000 x 210	kathleen.albon@buffalofilter.com	Brian Maas
Steam Sterilizers	PP-OR-821	03/01/2012	02/28/2015	Belimed Inc	Pam Palmer	8432167424	ppalmer@belimed.us	Christian Flohr
	PP-OR-822	03/01/2012	02/28/2015	Getinge USA Inc	Charles Burrage	7139078195	charles.burrage@getingeusa.com	Christian Flohr
	PP-OR-823 AS-OR-823	03/01/2012	02/28/2015	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Christian Flohr
Surgical Endoscopy and Video Equipment	PP-OR-777 AS-OR-777	01/01/2012	12/31/2014	Stryker Endoscopy	Shri Parikh	268.385.2600	shri.parikh@stryker.com	Kimberly Diewald
	PP-OR-778	01/01/2012	12/31/2014	Olympus America, Inc.	Pres Judy	404.863.4597	pres.judy@olympus.com	Ben Robinson
Surgical Energy Products	PP-OR-665	09/01/2010	08/31/2015	Conmed Corporation	Robert Deluca	7045547367	bobdeluca@conmed.com	Ben Robinson
	PP-OR-664	09/01/2010	08/31/2015	Tyco Healthcare (Valleylab)	Greg Goodall	7574509234	greg.goodall@covidien.com	Kimberly Diewald
	PP-OR-666	09/01/2010	08/31/2015	Medline Industries Inc.	Mark Parry	7049622111	mparry@medline.com	Kimberly Diewald
Surgical Headlights	PP-OR-922	10/01/2012	09/30/2015	Designs for Vision, Inc	Jeff Anderson	631.585.3404	jeffanderson@dvimail.com	Brian Maas
	PP-OR-923	10/01/2012	09/30/2015	SheerVision Incorporated	Martin Chaput	310.265.8918 x213	mchaput@sheervision.com	Brian Maas
	PP-OR-924	10/01/2012	09/30/2015	Sunoptic Technologies	Dave Mutch	904.737.7611	dave.mutch@sunopticttech.com	Brian Maas
Video Laryngoscopes	PP-OR-781	10/01/2011	09/30/2014	Ambu Inc	John Schmitz	8472269780	jws@ambu.com	Ben Robinson
	PP-OR-782	10/01/2011	09/30/2014	King Systems Corp	Nina Jones	3177766823	njones@kingsystems.com	Ben Robinson



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Washers and Decontaminators	PP-OR-824	03/01/2012	02/28/2015	Belimed Inc	Pam Palmer	8432167424	ppalmer@belimed.us	Christian Flohr
	PP-OR-825	03/01/2012	02/28/2015	Getinge USA Inc	Charles Burrage	7139078195	charles.burrage@getingeusa.com	Christian Flohr
	PP-OR-826	03/01/2012	02/28/2015	Midbrook Inc	Tammy Vannest	5177873481	tvannest@midbrook.com	Christian Flohr
	PP-OR-827 AS-OR-827	03/01/2012	02/28/2015	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Christian Flohr
Women and Children Capital								
Auditory Products and Related Accessories	PP-WC-044	05/01/2010	04/30/2013	Natus Medical Inc	Kenneth Traverso	800.244.3901 x 244	ktraverso@natus.com	Charon Byrd
	PP-WC-047	05/01/2010	04/30/2013	Otodynamics Ltd	John Morgan	828.478.9880	john@otodynamics.com	Charon Byrd
Bladder Scanners	PP-WC-064	06/01/2011	05/31/2014	Medline Industries Inc.	Mark Parry	704.814.0941	mparry@medline.com	Meg Wyatt
Breast Screening Equipment - Non-Radiology	PP-WC-085	04/01/2012	03/31/2015	NeoMatrix	John Stroh	949.753.7844	jstroh@neomatrix.com	Rosanna Rumbough
Breast Pump Equipment and Accessories	PP-WC-057 AS-WC-057	04/01/2011	03/31/2014	Evenflo Company, Inc.	Jill Love	6145716291	jill.love@ameda.com	Charon Byrd
	PP-WC-058	04/01/2011	03/31/2014	Limerick Inc	Patricia Kelly	818.566.3060 x 103	patricia.kelly@limerickinc.com	Charon Byrd
	PP-WC-056	04/01/2011	03/31/2014	Medela, Incorporated	James Hughes	435.831.6583	jim.hughes@medela.com	Charon Byrd
Cerebral and Regional Oximetry Equipment	PP-WC-055	02/01/2011	01/31/2014	Nonin Medical Inc	Phil Strasser	612.325.6311	phil.strasser@nonin.com	Rosanna Rumbough
	PP-WC-073	11/01/2011	01/31/2014	Nellcor Puritan Bennett, Inc.	Greg Goodall	757.450.9234	greg.goodall@covidien.com	Rosanna Rumbough
Cribs, Bassinets, Youth Beds and Related Products	PP-WC-045	04/01/2010	03/31/2013	Homewood Health Care	Donald Delewese	614.766.4862	ddelewese@homewoodhealthcare.com	Charon Byrd
	PP-WC-046	04/01/2010	03/31/2013	NK Medical Products Inc	Joseph Manzella	716.759.7200	jmanzella@nkmedicalproducts.com	Charon Byrd
Fetal Monitoring	PP-WC-088 AS-WC-088	03/01/2012	02/28/2015	GE Medical Systems Information Technologies, Inc.	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Rosanna Rumbough
	PP-WC-089	03/01/2012	02/28/2015	Philips Healthcare	Peter Grant	7034640901	peter.grant@philips.com	Rosanna Rumbough
Handheld Dopplers	PP-WC-066	08/01/2011	07/31/2014	ARJOhuntleigh	Chris Ryan	800.323.12455 x 4537	christopher.ryan@arjohuntleigh.com	Charon Byrd
	PP-WC-067	08/01/2011	07/31/2014	Newman Medical	Spencer Newman	847.283.9177	spencer.newman@newman-medical.com	Charon Byrd
Infant Care Capital Equipment	PP-WC-093	08/01/2012	07/31/2015	Datex-Ohmeda, Inc.	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Rosanna Rumbough
	PP-WC-094	08/01/2012	07/31/2015	Children's Medical Ventures	Michael Kniery	615.426.4362	mike.kniery@philips.com	Rosanna Rumbough
	PP-WC-095 AS-WC-095	08/01/2012	07/31/2015	Draeger Medical Inc	Ron Brito	615.815.5583	ron.brito@draeger.com	Rosanna Rumbough
	PP-WC-096	08/01/2012	07/31/2015	Fisher & Paykel Healthcare, Inc.	Mark Fogleman	704.906.5627	mark.fogleman@fphcare.com	Rosanna Rumbough
	PP-WC-097	08/01/2012	07/31/2015	Neoforce Group, Inc.	Monica Ferrante	215.672.6800 x203	monica.ferrante@neoforcegroup.com	Rosanna Rumbough
	PP-WC-098	08/01/2012	07/31/2015	Medela, Incorporated	James Hughes	800.435.8316 x5583	jim.hughes@medela.com	Charon Byrd



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Clinical Capital Agreements - January 2013

Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Contract Manager / Director
OB Data Management Systems	PP-WC-086 AS-WC-086	03/01/2012	02/28/2015	GE Medical Systems Information Technologies, Inc.	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Rosanna Rumbough
	PP-WC-087	03/01/2012	02/28/2015	Philips Healthcare	Peter Grant	7034640901	peter.grant@philips.com	Rosanna Rumbough
Radio Frequency Band Adult & Infant Security Systems	PP-WC-084	12/01/2011	11/30/2014	RF Technologies	David Barden	2628531268	dbarden@rft.com	Rosanna Rumbough
Simulation Training Equipment and Centers	PP-WC-101	12/1/2012	11/30/2014	Ambu, Inc	John Schmitz	800.262.8673	jws@ambu.com	Meg Wyatt
	PP-WC-100	12/1/2012	11/30/2014	Laerdal Medical Corp	Bruce Cadwell	800.297.7770	bruce.cadwell@laerdal.com	Rosanna Rumbough
Vein Finder Equipment	PP-WC-074	10/01/2011	09/30/2014	AccuVein, LLC	Keith Popp	888.909.8888	keith@accuvein.com	Charon Byrd
	PP-WC-075	10/01/2011	09/30/2014	Christie Medical Holdings, Inc	Lisa Rains	205.807.0741	lisa.rains@christiedigital.com	Charon Byrd
Emergency Evacuation System	PP-WC-083	12/01/2011	11/30/2014	Evacucorp, Inc	Chip Conner	502.876.1439	chip_scm@hotmail.com	Rosanna Rumbough
Food Service								
Vending Machines and Services	SD-DI-002	01/01/2012	12/31/2014	Gilly Vending	Gilda Rosenberg	305.620.8081	gilda@gillyvending.com	Deborah Williams

Article 11 – Insurance and Bonds

11.1.1 Delete the semicolon at the end of Clause 11.1.1.1 and add the following:

, including private entities performing Work at the site and exempt from the coverage on account of number of employees or occupation, which entities shall maintain voluntary compensation coverage at the same limits specified for mandatory coverage for the duration of the Project.

11.1.1.2 Delete the semicolon at the end of Clause 11.1.1.2 and add the following:

, or persons or entities excluded by statute from the requirements of Clause 11.1.1.1 but required by the Contract Documents to provide the insurance required by that Clause to include individual proprietors and /or partners operating in a partnership.

11.1.1.9 Add the following subparagraph:

.9 Liability insurance shall include all major division of coverage and be on a Commercial General Liability basis including:

1. Premises operations (including X, C and U coverages as applicable).
2. Independent Contractors' Protective.
3. Products and Completed Operations.
4. Personal Injury Liability.
5. Contractual, including specified provision for Contractor's obligation under paragraph 3.18.
6. Owned, non-owned and hired motor vehicles.
7. Broad Form Property Damage including Completed Operations.

11.1.1.10 Add the following subparagraphs:

.10 If the General Liability coverages are provided by a Commercial General Liability policy on a claims-made basis, the policy date or Retroactive Date shall predate the Contract; the termination date of the policy or applicable extended reporting period shall be no earlier than the termination date of coverages required to be maintained after final payment, certified in accordance with subparagraph 9.10.2.

11.1.2 Add the following subparagraphs:

11.1.2.1 The insurance required by subparagraph 11.1.1 shall be written for not less than the following limits, or greater if required by law:

1. Worker's Compensation:

- | | |
|---|-------------------------------------|
| a. State: South Dakota | Statutory |
| b. Applicable Federal (eg Longshoremen's) | Statutory |
| c. Employer's Liability: \$100,000.00 | per Accident |
| | \$100,000.00 Disease, Policy Limit |
| | \$500,000.00 Disease, Each Employee |

2. Commercial General Liability (including Premises-Operations; Independent Contractors' Protective; Products & Completed Operations; Broad Form Property Damage):

- | | |
|-----------------|----------------|
| Each Occurrence | \$1,000,000.00 |
| Aggregate | \$2,000,000.00 |

- a. Products and Completed Operations to be maintained for (2) years after final payment.
- b. Property Damage Liability Insurance shall provide X,C and U coverage. Any exception to the above must be noted on the certificate.

c. Broad Form Property Damage Coverage shall include Completed Operations.

3. Contractual Liability:

Each Occurrence	\$1,000,000.00
Aggregate	\$1,000,000.00

4. Personal Injury

Each Occurrence	\$1,000,000.00
Aggregate	\$1,000,000.00

5. Business Auto Liability (including owned, non-owned and hired vehicles):

Combined Single Limit \$1,000,000.00

6. Commercial General Liability shall include the following:

a. General aggregate shall not be less than \$1,000,000 and it shall apply, in total to this Project only.

b. Fire Damage Limit shall not be less than \$100,000 on any one fire.

c. Medical Expense Limit shall not be less than \$5,000 on any one person.

d. If, under the terms of the policy, any Aggregate Limit is reduced by 10% on account of the total of all claims, paid or pending, for which the Contractor is, or may be, legally liable, the Contractor shall notify the Owner in writing within 10 days of such reduction or potential reduction. Notification shall indicate separate totals, paid and pending, for each Limit. If instructed by the Owner in writing, the Contractor shall, at its own expense, restore the Aggregate Limits to their respective original amounts or submit evidence to the Owner that the original Aggregate Limits are being maintained. Within 30 days of receipt of notice, Contractor shall submit a revised Certificate of Insurance indicating restoration or maintenance of such Aggregate Limits. The Contractor may, on its own, restore the Aggregate Limits to the original amounts for this Project only at any time during progress of the Work without relying on notification by Owner.

7. Umbrella Excess Liability:

\$5,000,000.00 Over primary insurance Each Occurrence.

\$5,000,000.00 Over primary insurance General Aggregate.

\$1,000,000.00 Over primary insurance Products 7 Completed Operations Aggregate.

\$ 10,000.00 retention for self-insured Hazards, Each Occurrence.

11.1.3 Add the following sentences to subparagraph 11.1.3:

The Certificates shall be the most current edition of ACORD Form 25S with the following modifications:

The "CANCELLATION" statement shall read as follows:

"Should any of the above described policies be cancelled before the expiration date thereof, the issuing company will mail 30 days written notice to the Certificate Holder named to the left."

11.3.1 Modify the first sentence of Subparagraph 11.3.1 as follows: Delete "Unless otherwise provided, the Owner" and substitute "the Contractor".

11.3.1 Add the following sentence to the end of subparagraph:

The form of the policy for this coverage shall be Completed Value. If the Owner is damaged by the failure of the Contractor to maintain such insurance, then the Contractor shall bear all reasonable costs properly attributable thereto.

11.3.1.1 Add the following sentence to the end subparagraph 11.3.1.1:

The form of Policy for this coverage shall be Completed Value.

11.3.1.2 Delete Clause 11.3.1.2.

11.3.1.3 Delete Clause 11.3.1.3.

11.3.4 Delete subparagraph 11.3.4.

11.3.6 Delete and substitute with the following:

11.3.6 Before an exposure to loss may occur, the Contractor shall file with the Owner two certified copies of the policy of policies providing this Property Insurance coverage, each containing those endorsements specifically related to the Project. The perils of surface water, earthquake and flood shall be specifically included. Each policy shall contain a provision that the policy will not be cancelled or allowed to expire until at least 30 days prior written notice has been given to the Contractor.

11.3.7 Modify subparagraph 11.3.7 by substituting "Contractor" for "Owner" at the end of the first sentence.

11.3.8 Modify subparagraph 11.3.8 by substituting "Contractor" for "Owner" as fiduciary.

11.3.9 Modify subparagraph 11.4.9 by substituting "Contractor" for "Owner" each time the latter word appears.

11.3.10 Modify subparagraph 11.4.10 substituting "Contractor" for "Owner" each time the latter word appears.

ARTICLE 11, INSURANCE AND BONDS

Replace the words "the Contract Documents" with the words "subparagraph 11.1.5" in the first sentence of subparagraph 11.1.2.

Add the following subparagraph:

11.1.5. Insurance shall be:

- .1 Written with a limit of liability of not less than \$500,000 for all damages arising out of bodily injury, including death, at any time resulting therefrom, sustained by any one person in any one accident; and a limit of liability of not less than \$500,000 aggregate for any such damages sustained by two or more persons in any one accident. Insurance shall be written with a limit of liability of not less than \$200,000 for all property damage sustained by any one person in any one accident; and a limit of liability of not less than \$200,000 aggregate for any such damage sustained by two or more persons in any one accident, or
- .2 Written with a combined bodily injury and damage liability of not less than \$700,000 per occurrence; and with an aggregate of not less than \$700,000 per occurrence.

Modify the first sentence of subparagraph 11.3.1 as follows:

11.3.1 Delete "Unless otherwise provided, the Owner" and substitute "The Contractor".

Add the following sentences to the end of subparagraph 11.3.1

The policy shall name as the insured the Contractor and the Owner. If the Owner is damaged by the failure of the Contractor to purchase and maintain such insurance without so notifying the Owner in writing, then the Contractor shall bear all reasonable costs attributable thereto.

Insert the word "Owner" after the words "protect the interests of the" in the second sentence of subparagraph 11.3.1.2.

Add the following sentence to the end of subparagraph 11.3.6: The

provisions of this subparagraph shall apply to the Contractor if the Contractor purchases and maintains said insurance coverage.

Delete subparagraph 11.3.7 in its entirety.

Delete subparagraph 11.4.1 and substitute the following:

11.4.1 The Contractor shall furnish the Owner bonds covering faithful performance of the Contract and payment of obligations arising thereunder within ten (10) calendar days after receipt of the Notice of Award. The surety company executing the bonds must hold a certificate of authority as an acceptable surety on Federal bonds as listed in Treasury Circular 570, and be authorized to transact business in the State where the Project is located. The bonds (using the forms included in the Bidding Documents) shall each be equal to the amount of the

Contract Sum. The cost of these bonds shall be included in the Contract Sum

Add the following subparagraphs:

11.4.1.1 The Contractor shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current power of attorney.

11.4.1.2 If at any time a surety on any such bond is declared bankrupt or loses its right to do business in the State in which the work is to be performed or is removed from the list of surety companies accepted on Federal Bonds, the Contractor shall within ten (10) calendar days after notice from the Owner to do so, substitute an acceptable bond in such form and sum and signed by such other surety or sureties as may be satisfactory to the Owner. The premiums of such bond shall be paid by any Contractor. No further payment shall be deemed due nor shall be made until the new surety or sureties shall have furnished an acceptable bond to the Owner.

1.7 BIDDER'S QUALIFICATIONS

- A. Bidders must be properly licensed under the laws governing their respective trades and be able to obtain insurance and bonds required for the Work.[A Performance Bond, separate Labor and Material Payment Bond, and Insurance in a form acceptable to Owner will be required of the successful Bidder.]

ARTICLE 7 - PERFORMANCE BOND AND PAYMENT BOND

1 7.1 - Bond Requirements:

1.7 Add Section 7.1.1.1:

- A. 7.1.1.1 - Both a Performance Bond and a Payment Bond will be required, each in an amount equal to 100 percent of the Contract Sum.

2 7.2 - Time of Delivery and Form of Bonds:

2.7 Delete the first sentence of Section 7.2.1 and insert the following:

- A. The Bidder shall deliver the required bonds to Owner no later than [10] <Insert number > days after the date of Notice of Intent to Award and no later than the date of execution of the Contract, whichever occurs first. Owner may deem the failure of the Bidder to deliver required bonds within the period of time allowed a default.

2.8 Delete Section 7.2.3 and insert the following:

- A. 7.2.3 - Bonds shall be executed and be in force on the date of the execution of the Contract.

2 Temporary Facilities and Controls: In addition to specific responsibilities for temporary facilities and controls indicated in this Section and in Section 015000 "Temporary Facilities and Controls," each contractor is responsible for the following:

- 2.7 Installation, operation, maintenance, and removal of each temporary facility necessary for its own normal construction activity, and costs and use charges associated with each facility, except as otherwise provided for in this Section.
- 2.8 Plug-in electric power cords and extension cords, supplementary plug-in task lighting, and special lighting necessary exclusively for its own activities.
- 2.9 Its own field office, complete with necessary furniture, utilities, and telephone service.
- 2.10 Its own storage and fabrication sheds.
- 2.11 Temporary enclosures for its own construction activities.
- 2.12 Staging and scaffolding for its own construction activities.
- 2.13 General hoisting facilities for its own construction activities, up to 2 tons (2000 kg).
- 2.14 Waste disposal facilities, including collection and legal disposal of its own hazardous, dangerous, unsanitary, or other harmful waste materials.
- 2.15 Progress cleaning of work areas affected by its operations on a daily basis.
- 2.16 Secure lockup of its own tools, materials, and equipment.
- 2.17 Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.

- 3 Temporary Heating, Cooling, and Ventilation: [The General Construction Contract] [The HVAC Contract] [Project coordinator] is responsible for temporary heating, cooling, and ventilation, including utility-use charges, temporary meters, and temporary connections.
- 4 Temporary Heating, Cooling, and Ventilation: [The General Construction Contract] [The HVAC Contract] [Project coordinator] is responsible for temporary heating, cooling, and ventilation before weather tight enclosure of building is complete. [The General Construction Contract] [The HVAC Contract] [Project coordinator] is responsible for temporary heating, cooling, and ventilation after permanent enclosure of building is complete[and Owner will pay utility-use charges].
- 5 Use Charges: Comply with the following:
 - 5.7 Sewer Service: Include the cost for sewer service use by all parties engaged in construction activities at Project site in the [General Construction] [Plumbing] Contract.

011200

- 5.8 Water Service: Include the cost for water service, whether metered or otherwise, for water used by all entities engaged in construction activities at Project site in the [General Construction] [Plumbing] Contract.
 - 5.9 Electric Power Service: Include the cost for electric power service, whether metered or otherwise, for electricity used by all entities engaged in construction activities at Project site in the [General Construction] [Electrical] Contract.
- 6 Work in the General Construction Contract includes, but is not limited to, the following:
- 6.7 Remaining work not identified as work under other contracts.
 - 6.8 Site preparation, including clearing, building demolition and relocations, and earthwork.
 - 6.9 Site improvements, including roadways, parking lots, pedestrian paving, site development furnishings and equipment, and landscaping.
 - 6.10 Tunnels for site utilities.
 - 6.11 Selective demolition.
 - 6.12 Foundations, including footings, foundation walls[, and piles].
 - 6.13 Slabs-on-grade, including earthwork, subdrainage systems, and insulation.
 - 6.14 Below-grade building construction, including excavation, backfill, and thermal and moisture protection.
 - 6.15 Superstructure, including floor and roof construction [and] [sprayed fire-resistive materials] [and] [board fire protection].
 - 6.16 Exterior closure, including walls,[parapets,] doors, windows[, and louvers].
 - 6.17 Roofing, including coverings, flashings [roof specialties] [and] [glazed openings].
 - 6.18 Interior construction, including partitions, doors,[interior glazed openings,] and fittings.
 - 6.19 Fire-protection specialties.
 - 6.20 Stairs, including railings and finishes.
 - 6.21 Interior finishes [finish carpentry] [architectural woodwork] and built-in casework.
 - 6.22 Miscellaneous items, including [concrete equipment bases] [and] [painting of mechanical and electrical work].
 - 6.23 Conveying systems, including [elevators] [wheelchair lifts] [escalators] [and] [cranes].
 - 6.24 Equipment, including the following:
 - A. Stage equipment.
 - B. Projection screens.
 - C. Loading dock equipment.
 - D. Waste compactors.
 - E. Foodservice equipment.
 - F. Residential appliances.
 - G. Laboratory fume hoods.
 - 6.25 Furnishings, including [casework] [window treatments] [floor grilles and mats] [and] [seating]
 - 6.26 Special construction, including the following:
 - A. Preengineered structures.
 - B. Special-purpose rooms.
 - C. Radiation protection.
- 7 Temporary facilities and controls in the General Construction Contract include, but are not limited to, the following:

- 7.7 Temporary facilities and controls that are not otherwise specifically assigned to the [Plumbing Contract] [HVAC Contract] [Electrical Contract] [and] <Insert name of contract>.
- 7.8 Sediment and erosion control.
- 7.9 Unpiped sewers and drainage, including drainage ditches, dry wells, stabilization ponds, and containers.
- 7.10 Stormwater control.
- 7.11 Unpiped temporary toilet fixtures, wash facilities, and drinking water facilities, including disposable supplies.
- 7.12 Temporary enclosure for building exterior, except as indicated.
- 7.13 Temporary roads and paved areas.
- 7.14 Dewatering facilities and drains.
- 7.15 Excavation support and protection, unless required solely for the Work of another contract.
- 7.16 Special or unusual hoisting requirements for construction activities, including hoisting loads in excess of 2 tons (2000 kg), hoisting material or equipment into spaces below grade, and hoisting requirements outside building enclosure.
- 7.17 Project identification and temporary signs.
- 7.18 General waste disposal facilities.
- 7.19 Pest control.
- 7.20 Temporary stairs.
- 7.21 Temporary fire-protection facilities.
- 7.22 Barricades, warning signs, and lights.
- 7.23 Site enclosure fence.
- 7.24 Covered walkways.
- 7.25 Security enclosure and lockup.
- 7.26 Environmental protection.
- 7.27 Restoration of Owner's existing facilities used as temporary facilities.
- 7.28 <Insert temporary facilities and controls>.

1.6 BID PACKAGE (PLUMBING CONTRACT)

A. Work in the Plumbing Contract includes, but is not limited to, the following:

- 1. Site water supply and distribution.
- 2. Site sanitary sewerage.
- 3. Site storm drainage.
- 4. Site fuel distribution.
- 5. Site special plumbing systems.
- 6. Plumbing fixtures.
- 7. Domestic water distribution.
- 8. Sanitary waste.
- 9. Stormwater drainage.
- 10. Special plumbing systems, including the following:
 - a. Compressed air.
 - b. Deionized water.
 - c. Distilled water.
 - d. Fuel oil.
 - e. Natural gas.
 - f. Medical gas.
 - g. Vacuum.
 - h. Acid waste.
 - i. Pools and fountains.
- 11. Fire-suppression systems.
- 12. Special fire-suppression systems, including the following:

- a. Foam fire-extinguishing systems.
 - b. Clean-agent extinguishing systems.
13. Plumbing connections to equipment furnished by the [General Construction Contract] [Plumbing Contract] [HVAC Contract] [Electrical Contract] [and] <Insert name of contract>.
 14. <Insert descriptions of the Work>.
- B. Temporary facilities and controls in the Plumbing Contract include, but are not limited to, the following:
1. Piped sewerage and drainage.
 2. Piped gas service.
 3. Piped water service.
 4. Piped temporary toilet fixtures, wash facilities, and drinking water facilities.
 5. Plumbing connections to existing systems and temporary facilities and controls furnished by the [General Construction Contract] [Plumbing Contract] [HVAC Contract] [Electrical Contract] [and] <Insert name of contract>.
 6. <Insert temporary facilities and controls>.

1.7 BID PACKAGE (HVAC CONTRACT)

- A. Work in the HVAC Contract includes, but is not limited to, the following:
1. Site steam distribution.
 2. Site hydronic distribution.
 3. Energy supply, including [oil] [gas] [steam] [hot- and chilled-water] supply systems.
 4. HVAC systems and equipment.
 5. HVAC instrumentation and controls.
 6. HVAC testing, adjusting, and balancing.
 7. Building automation system.
 8. Mechanical connections to equipment furnished by the [General Construction Contract] [Plumbing Contract] [HVAC Contract] [Electrical Contract] [and] <Insert name of contract>.
 9. <Insert descriptions of the Work>.
- B. Temporary facilities and controls in the HVAC Contract include, but are not limited to, the following:

1.8 BID PACKAGE (ELECTRICAL CONTRACT)

- A. Work in the Electrical Contract includes, but is not limited to, the following:
1. Site electrical distribution.
 2. Site lighting.
 3. Site communications and security.
 4. Electrical service and distribution.
 5. Exterior and interior lighting[and light pole bases].
 6. Communication and security.
 7. Special electrical systems, including the following:

- a. Uninterruptible power supply systems.
 - b. Packaged engine generator systems.
 - c. Battery power systems.
 - d. Cathodic protection.
 - e. Electromagnetic shielding systems.
 - f. Lightning protection systems.
 - g. Unit power conditioners.
 - h. Power generation systems.
8. Electrical connections to equipment furnished by the [General Construction Contract] [Plumbing Contract] [HVAC Contract] [Electrical Contract] [and] <Insert name of contract>.
 9. <Insert descriptions of the Work>.
- B. Temporary facilities and controls in the Electrical Contract include, but are not limited to, the following:
1. Electric power service and distribution.
 2. Lighting, including site lighting.
 3. Electrical connections to existing systems and temporary facilities and controls furnished by the [General Construction Contract] [Plumbing Contract] [HVAC Contract] [Electrical Contract] [and] <Insert name of contract>.
 4. <Insert temporary facilities and controls>.
- 1.9 BID PACKAGE [LABOR ONLY][MATERIALS ONLY][LABOR AND MATERIALS COMPLETE]
- A. Work in the <Insert name> Contract includes, but is not limited to, the following:
1. <Insert descriptions of the Work>.
- B. Temporary facilities and controls in the <Insert name> Contract include, but are not limited to, the following:
1. <Insert requirements for temporary facilities and controls>.



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 Ken Konopasek - Regional Manager Construction Services, 704.816.5196
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Construction Agreements - December 2013

Products	Division Number	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-Mail	Contract Manager
Construction Services (approved national "general contractor/construction management firms")	00 00 00	PP-FA-334	05/1/2012	04/30/2015	Heery International, Inc.	Michael Tomy	404-881-9880 x 2450	MTomy@heery.com	Kim Drake
		PP-FA-338	05/1/2012	04/30/2015	Zak Companies	Linda Marie Grawl	314.822.5242	lmgrawl@zakcompanies.com	Kim Drake
		PP-FA-335	05/1/2012	04/30/2015	Rodgers Builders, Inc.	James Clayton	704.537.6044	jclayton@rogersbuilders.com	Kim Drake
		PP-FA-337	05/1/2012	04/30/2015	Tyler 2 Construction	Dale Fite	704 714 6004	DFite@tyler2construction.com	Kim Drake
		PP-FA-331	05/1/2012	04/30/2015	Jones Lang LaSalle	John Healy	404.995.2122	john.healy@am.ill.com	Kim Drake
Construction Architectural Design Firms	00 00 00	PP-FA-291	10/01/2011	04/30/2014	Bahr Architects Inc	Pat Faulkner	980.297.7694	pat.faulkner@stantec.com	Kim Drake
		PP-FA-292	10/01/2011	04/30/2014	Beck Group	Dominick Calabrese	214.303.6265	N/A	Kim Drake
		PP-FA-293	10/01/2011	04/30/2014	ESa Architects	Tara Myers	615.329.9445	taram@esarch.com	Kim Drake
		PP-FA-294	10/01/2011	04/30/2014	FKP Architects	Rick Harris	713.621.2100	rharris@fkp.com	Kim Drake
		PP-FA-295	10/01/2011	04/30/2014	FreemanWhite	Frank Brooks	704.523.2230 x 2326	fbrooks@freemanwhite.com	Kim Drake
		PP-FA-296	10/01/2011	04/30/2014	Heery International Inc	Michael Tomy	404.881.9880	mtomy@heery.com	Kim Drake
		PP-FA-297	10/01/2011	04/30/2014	LS3P Associates LLC	William Drennan	704.333.6686 x 7889	williamdrennan@ls3p.com	Kim Drake
		PP-FA-298	10/01/2011	04/30/2014	Matocha Associates	Jeffrey Baity	630.530.2300 x 257	jbaity@matocha.com	Kim Drake
Equipment Planning, Procurement, Installation and Transition Planning Services	00 00 00	PP-FA-299	12/01/2011	04/30/2014	Bahr Architects Inc	Phillip Bahr	650.329.0900	philb@bahrachitects.com	Kim Drake
		PP-FA-300	12/01/2011	04/30/2014	Cazador LLC	Thomas Brown	616.502.9366	thomas.brown@cazador.biz	Kim Drake
		PP-FA-301	12/01/2011	04/30/2014	Cornerstone Equipment Planning Associates LLC	Doug Lieberman	215.836.1191	doug.lieberman@cepaco.com	Kim Drake
		PP-FA-302	12/01/2011	04/30/2014	Equipment Collaborative	Andy Lewis	713.821.9366	alewis@eqcollaborative.com	Kim Drake
		PP-FA-303	12/01/2011	04/30/2014	Faithful Gould	Dave Scott	312.612.6306	dave.scott@fgould.com	Kim Drake
		PP-FA-306	12/01/2011	04/30/2014	Medical Equipment Resources & Consulting	Wade Byerly	817.337.2772	wbyerly@medicalequiprc.com	Kim Drake
		PP-FA-307	12/01/2011	04/30/2014	Mitchell Associates	Ben Riestra	847.412.0300	briestra@mitchellplanning.com	Kim Drake
Roofing Products, Systems and Services (includes: waterproofing products/installation)	07 00 00	SD-FA-019	07/01/2012	04/30/2014	KR Wolfe	Hannah Wiiner	619.328.1544	hannah@krwolfe.com	Deborah Williams
		PP-FA-341	06/01/2012	05/31/2015	The Garland Company	Eric Younkin	440-829-7700	eyounkin@garlandinc.com	Kim Drake
		PP-FA-342	06/01/2012	05/31/2015	Tremco Incorporated and Weatherproofing Technologies, Inc.	Russ Sylvester	719.522.2440	rsylvester@tremcoinc.com	Kim Drake
		PP-FA-343	06/01/2012	05/31/2015	Team Roofing	Michael Miller	336.750.0750	michael.miller@teamroofinginc.com	Kim Drake
		PP-FA-344	06/01/2012	05/31/2015	Nations Roof LLC	Randy Axelson	312.371.3021	raxelson@nationsroof.com	Kim Drake
Flooring Products and Services	09 00 00	PP-FA-345	06/01/2012	05/31/2015	Simon Roofing Products	Cynthia Strunk	440.248.0220	cstrunk@simonroofingproducts.com	Kim Drake
		PP-FA-372	01/1/2013	11/30/2015	Forbo Flooring	Tim Donahue	570.976.0498	tim.donahue@forbo.com	Kim Drake
		PP-FA-373	01/1/2013	11/30/2015	GrantiFiandre	Franne Stewart	713.869.0800	franne@granitivicentia.com	Kim Drake
		PP-FA-374	01/1/2013	11/30/2015	Johnsonite	Mark Bischoff	440.543.8916	mark.bischoff@johnsonite.com	Kim Drake
		PP-FA-375	01/1/2013	11/30/2015	Mannington Commercial, Inc	Mark Huxta	484.571.4051	mark_huxta@mannington.com	Kim Drake
		PP-FA-376	01/1/2013	11/30/2015	Mondo America, Inc	Garret Davelaar	800.361.3747	gdavelaar@mondousa.com	Kim Drake
		PP-FA-377	01/1/2013	11/30/2015	Shaw Industries, Inc.	Paul Young	770.387.7844	paul_young@shawinc.com	Kim Drake
		PP-FA-378	01/1/2013	11/30/2015	Tandus, Inc. (C&A)	Joe Martere	860.866.7250	jmartere@tandus.com	Kim Drake
Gypsum Board / Drywall	09 00 00	PP-FA-412	09/1/2013	08/31/2016	USG Corporation	Christine Skelton	312.436.5787	cskelton@usg.com	Kim Drake
Ceiling Tiles / Panels and Systems	09 00 00	PP-FA-411	09/1/2013	08/31/2016	USG Corporation	Christine Skelton	312.436.5787	cskelton@usg.com	Kim Drake
Paint and Related Sundries	09 00 00	PP-FA-391	03/01/2013	02/28/2016	Glidden Professional Paint Center (formerly ICI Paints)	Marty Greenwell	502.290.4337	marty.greenwell@ppg.com	Kim Drake
Ice Machines and Water Dispensing Products and Services (includes: medical grade refrigerators & freezers)	12 00 00	PP-FA-274	07/1/2011	06/30/2014	Aramark	Jeff Lyons	704.287.3687	lyons-jeff@aramark.com	Kim Drake
		PP-FA-272	07/1/2011	06/30/2014	Follett Corporation	Gary Gutman	800.523.9361	ggutman@follettice.com	Kim Drake
		PP-FA-273 AS-FA-273	07/1/2011	06/30/2014	Scotsman	Alex Carayannopoulos	224.358.5533	alex.c@scotsman-ice.com	Kim Drake
Food Service Equipment, Design, Procurement, and Installation	11 00 00	PP-DI-681	06/1/2011	05/31/2014	Supply America	Jameel Damlouji	318.524.1102 x101	jameel@supplyamericaonline.com	Greg Ziegler / George Hechtel
		PP-DI-680	06/1/2011	05/31/2014	Next Day Gourmet	Veronica Ballard	502.275.9644	vballard@nextdaygourmet.com	Greg Ziegler / George Hechtel



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Construction Agreements - December 2013

Products	Division Number	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-Mail	Contract Manager
Clinical Headwalls	10 00 00	PP-FA-397	04/1/2013	03/31/2016	Amico Corporation	Marco Acchione	905.764.0800	macchione@amico.com	Chris Dismuke
		PP-FA-398	04/1/2013	03/31/2016	Hill-Rom	Diane Kessens	812-934-8338	diane.kessens@hill-rom.com	Chris Dismuke
Modular Casework, Storage Systems and Mobile Carts <i>(includes: various style carts "crash carts, etc.", wall/base cabinetry, modular casework, cabinets, adjustable shelving, tables) which can be used throughout all levels/depts. w/in a hospital.</i>	12 00 00	PP-FA-348	07/01/2012	06/30/2015	Lakeside Manufacturing	Brian Emmer	800.558.8565 x6479	bemmer@elakeside.com	Kim Drake
		PP-FA-346	07/01/2012	06/30/2015	Herman Miller Inc.	Tom Oonk	616.654.8278	tom_oonk@hermanmillier.com	Kim Drake
		PP-FA-347	07/1/2012	06/30/2015	InterMetro	Scott Davis	443.949.9229	c.scott.davis@emerson.com	Kim Drake
		PP-FA-351	07/01/2012	06/30/2015	Steelcase Inc.	Rob Lau	502.689.2736	rlau@nurture.com	Kim Drake
		PP-FA-350	07/01/2012	06/30/2015	Stanley InnerSpace	Sean Zinn	724.387.3003	sean.zinn@sbdinc.com	Kim Drake
		PP-FA-349	07/01/2012	06/30/2015	Neocase	Jeffrey Lewis	336.778.2098	jeff@neocase.net	Kim Drake
Exam Room Furniture	12 00 00	PP-AC-029	04/1/2011	03/31/2014	Midmark Corporation	Jerry Stahl	937.526.8338	jstahl@midmark.com	Leslie Totty
Furniture & Systems, Caseloads, Seating and Accessories <i>(includes: patient & hospitality textiles, draperies, tables, chairs, cubicle parts/pieces, dry erase boards, etc.)</i>	12 00 00	PP-FA-319	01/1/2012	12/31/2014	Stryker Medical	Shri Parikh	268.385.2600	shri.parikh@stryker.com	Kim Drake
		PP-FA-311	01/1/2012	12/31/2014	Chromcraft	Matt Prochaska	662.560.1423	matt.prochaska@chromcraftcorp.com	Kim Drake
		PP-FA-312	01/1/2012	12/31/2014	Durford Corporation	Jim Warren	601.922.4144	iwarren@durfold.com	Kim Drake
		PP-FA-313	01/1/2012	12/31/2014	Haworth, Inc.	Steven Knippen	630.806.5537	steven.knippen@haworth.com	Kim Drake
		PP-FA-314	01/1/2012	12/31/2014	Herman Miller Inc.	Kathi Davis	704.277.6800	kathi_davis@hermanmillier.com	Kim Drake
		PP-FA-315	01/1/2012	12/31/2014	The HON Company	Dana Merial	585.991.8693	mericald@hnicorp.com	Kim Drake
		PP-FA-316	01/1/2012	12/31/2014	Krueger International, Inc (KI)	Kelli Plamann	920.468.2719	kelli.plamann@ki.com	Kim Drake
		PP-FA-317	01/1/2012	12/31/2014	OFS	Scott Patton	614.309.7963	spatton@ofsbrands.com	Kim Drake
		PP-FA-318	01/1/2012	12/31/2014	Steelcase Inc.	Rob Lau	502.689.2736	rlau@nurture.com	Kim Drake
		SD-FA-018	01/1/2012	12/31/2014	NK Medical Products, Inc.	Joe Manzella	716.759.7200	jmanzella@nkmedicalproducts.com	Deborah Williams
Stainless Steel - Equipment, Storage Systems & Mobile Transport Carts (Medical & Non-Medical)	11 00 00	PP-FA-326	03/1/2012	02/28/2015	Lakeside Manufacturing	Brian Emmer	414.902.6479	bemmer@elakeside.com	Chris Dismuke
		SD-FA-022	02/01/2013	02/28/2015	Mass Medical Storage	Aubrey Guezuraga	913.579.6889	ag@massmedicalstorage.com	Chris Dismuke
		PP-FA-327	03/1/2012	02/28/2015	Pedigo Products Inc	Brenda Gillas	800.822.3501 x103	brenda.gillas@pedigo-usa.com	Chris Dismuke
Television Systems and Services	12 00 00	PP-FA-237	03/1/2011	02/28/2014	Lodgenet Interactive Corporation	Kelly Boyd	605.988.1570	kelly.boyd@lodgenet.com	Chris Dismuke
		PP-FA-239	03/1/2011	02/28/2014	MDM Commerical Enterprises Inc	Darlene Verderane	904.567.1125	darlene@mdmcommercial.com	Chris Dismuke
		PP-FA-238	03/1/2011	02/28/2014	TB&A Hospital Television INC.	Tom Brunskole	800.288.7351	tom@hospitaltv.com	Chris Dismuke
		PP-FA-240	03/1/2011	02/28/2014	Telehealth Services	Dan Nathan	919.772.8604	dan.nathan@telehealth.com	Chris Dismuke
		PP-FA-241	03/1/2011	02/28/2014	Healthcare Information LLC	Rick Margraf	513.271.8100	rickmargraf@hci-tv.com	Chris Dismuke
Reusable Textile and Textile Services	12 00 00	PP-FA-359	12/1/2012	11/30/2015	American Dawn Inc.	Mike Maloney	310.223.2000 x 3204	MMaloney@americandawn.com	Chris Dismuke
		PP-FA-360	12/1/2012	11/30/2015	Encompass Group	Tom Sweatt	817.233.8064	tom.sweatt@encompassgroup.net	Chris Dismuke
		PP-FA-361	12/1/2012	11/30/2015	Medline	Mark Parry	704.962.2111	mparry@medline.com	Chris Dismuke
		PP-FA-362	12/1/2012	11/30/2015	Phoenix Textile	Scott Rodgers	800.325.1440 x 5752	srodgers@phoenixtextile.com	Chris Dismuke
		SD-FA-024	8/1/2013	11/30/2015	ICP Medical	Liz MacLeod	314.429.1000	lmacleod@icpmedical.com	Chris Dismuke
		PP-FA-363 AS-FA-363	12/1/2012	11/30/2015	Standard Textile	Norman Frankel	513.761.9255	nfrankel@standardtextile.com	Chris Dismuke
High Density Mobile Storage Systems <i>(includes: wide breadth of high density shelving and storage systems. Storage systems include 2-3 drawer lateral file cabinets, bookcases, four-post and case-type shelving systems, artwork rack systems, etc.)</i>	10 00 00	PP-FA-330	04/1/2012	03/31/2015	Spacesaver Corporation	Patty Koshak	920.563.0590	pkoshak@spacesaver.com	Chris Dismuke
		PP-FA-329	04/1/2012	03/31/2015	Montel Aetnastak, Inc.	John Plewa	321.777.0464 x240	jplewa@montel.com	Chris Dismuke
Pneumatic Tube Systems and Services	14 00 00	PP-FA-260	05/1/2011	04/30/2014	SWISSLOG USA INC.	Ross Moreland	303.373.8821	ross.moreland@swisslog.com	Chris Dismuke
Conveying Systems: Elevator, Escalator and other	14 00 00	PP-FA-354	11/1/2012	10/31/2015	Otis Elevator Company	Ed Sheya	916.427.5760	ed.sheya@otis.com	Kim Drake
		PP-FA-356	11/1/2012	10/31/2015	Kone, Inc	Rudy Schmidt	201.262.0120	rudy.schmidt@kone.com	Kim Drake
		PP-FA-355	11/1/2012	10/31/2015	ThyssenKrupp Elevator	Jeff Jaudes	800.824.9666	Jeff.Jaudes@thyssenkrupp.com	Kim Drake
Medical Gas Pipeline Equipment, Services and Accessories	22 00 00	PP-FA-234	02/1/2011	01/31/2014	OHIO MEDICAL CORPORATION	Christine Drewry	847.855.6320	christine.drewry@ohiomedical.com	Chris Dismuke
		PP-FA-233	02/1/2011	01/31/2014	ALLIED HEALTHCARE PRODUCTS INC.	Terri Workes	314.268.1605	workest@alliedhpi.com	Chris Dismuke
Maintenance, Repair and Operations - Plumbing	22 00 00	PP-FA-267	05/01/2011	04/30/2014	Interline Brands (Sexauer)	Mark Cummings	904.421.1400	mcummings@interlinebrands.com	Chris Dismuke
Air Filtration Products	23 00 00	PP-FA-353	10/01/2012	09/30/2015	Tri-Dim Filter Co.	Duane Colwell	800.458.9835	d.colwell@tridim.com	Chris Dismuke
		PP-FA-352 AS-FA-352	10/01/2012	09/30/2015	Koch Filter Corporation	Regina McAnally	502.634.6204	rmcanally@kochfilter.com	Chris Dismuke
		PP-FA-387	01/1/2013	12/31/2015	McQuay	Mark Kearschner	704.340.1520	Mark.Kearschner@daikinmcquay.com	Kim Drake
HVAC Equipment, Controls & Services	23 00 00	PP-FA-386	01/1/2013	12/31/2015	The Trane Company	Jim Beam	704.655.4495	jbeam@trane.com	Kim Drake
		PP-FA-389	01/1/2013	12/31/2015	Phoenix Controls	Cheryl Laniewicz	303.273.1544	claniewicz@phoenixcontrols.com	Kim Drake
		PP-FA-388	01/1/2013	12/31/2015	Lennox International, Inc	Ron Palmer	704.405.7755	ron.palmer@lennoxind.com	Kim Drake
		PP-FA-381	01/1/2013	12/31/2015	Siemens Building Technologies, Inc	Dino Caliano	972.207.2832	dino.caliano@siemens.com	Kim Drake
Total Building Environment Systems and Controls	23 00 00	PP-FA-380	01/1/2013	12/31/2015	The Trane Company	Jim Beam	704.655.4495	jbeam@trane.com	Kim Drake



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Water Treatment Products, Systems and Services	23 00 00	PP-FA-246	04/1/2011	03/31/2014	CHEM-AQUA	Calvin Crotwell	662.429.9592	calvin_crotwell@nch.com	Chris Dismuke
		PP-FA-247	04/1/2011	03/31/2014	ECOLAB INC.	Jeffrey M Oloier	630.305.2882	joioier@nalco.com	Chris Dismuke
		PP-FA-248	04/1/2011	03/31/2014	FREMONT INDUSTRIES INC	Greg Becker	913.962.7676	gbecker@fremontind.com	Chris Dismuke
		PP-FA-249	04/1/2011	03/31/2014	GARRATT-CALLAHAN COMPANY	John Reseland	412.721.5292	jreseland@g-c.com	Chris Dismuke
		PP-FA-250	04/1/2011	03/31/2014	GE CONSUMER INDUSTRIAL	Samir Patel	215.821.0886	Samir.Patel@ge.com	Chris Dismuke
		PP-FA-251	04/1/2011	03/31/2014	NALCO COMPANY	Jeffrey M Oloier	630.305.2882	joioier@nalco.com	Chris Dismuke
		PP-FA-252	04/1/2011	03/31/2014	PREMIER WATER ENERGY TECHNOLOGY INC	Julie Edwards	904.268.1152 X 112	jedwards@premierwater.com	Chris Dismuke
		PP-FA-253	04/1/2011	03/31/2014	SOUTHWEST ENGINEERS	Ronnie Marx	985.643.1117	mailsw@southwestengineers.com	Chris Dismuke
Lamps, Ballasts & Fixtures	26 00 00	PP-FA-254	04/1/2011	03/31/2014	US WATER SERVICES	Michael Groh	612.269.7384	mgroh@uswaterservices.com	Chris Dismuke
		PP-FA-255	04/1/2011	03/31/2014	WATER ENGINEERING SERVICES INC	Damion Riera	917.656.9867	driera@weschemical.com	Chris Dismuke
		PP-FA-256	05/1/2011	04/30/2014	ACUITY BRANDS	Len Costello	215.822.7980	leonard.costello@acuitybrands.com	Kim Drake
		PP-FA-257	05/1/2011	04/30/2014	EARTHTRONICS INC	Kevin Youngquist	231.332.1188	keviny@earthtronics.com	Kim Drake
		AS-FA-258	05/1/2011	04/30/2014	GENERAL ELECTRIC COMPANY	Byron Webster	216.266.9606	byron.webster@ge.com	Kim Drake
		PP-FA-259	05/1/2011	04/30/2014	PHILIPS LIGHTING COMPANY	Roy Balder	224.343.3704	Roy.balder@philips.com	Kim Drake
		PP-FA-269	05/1/2011	04/30/2014	WESCO DISTRIBUTION INC.	Jeff Schott	704.658.5038	jschott@wescodist.com	Kim Drake
		PP-FA-263	05/1/2011	04/30/2014	GRAYBAR ELECTRIC COMPANY INC	Tim Malone	781.929.6535	timothy.malone@graybar.com	Kim Drake
Maintenance, Repair and Operations - Electrical	26 00 00	PP-FA-264	05/1/2011	04/30/2014	MAYER ELECTRIC SUPPLY CO	Andrew Long	704.529.0529	along@mayerelectric.com	Kim Drake
		PP-FA-268	05/1/2011	04/30/2014	Hagemeyer North America (Sonepar)	Ray Brindley	843.745.2482	rbrindley@hagemeverna.com	Kim Drake
		PP-FA-262	05/1/2011	04/30/2014	Rexel Gexpro (IESC)	Tom Forshee	214.676.8923	roger.forshee@rexelusa.com	Kim Drake
		PP-FA-270	05/1/2011	04/30/2014	WW GRAINGER	Mark Lombardo	847.567.3266	mark.lombardo@grainger.com	Kim Drake
		PP-FA-265	05/1/2011	04/30/2014	MSC INDUSTRIAL DIRECT CO. INC.	Angela Moore	804.714.2405	mooreA@mscdirect.com	Kim Drake
Maintenance, Repair & Operations - General	General	PP-FA-266	05/1/2011	04/30/2014	OPTIMUM SUPPLY LLC	Cedric Beckett	216.544.5593	cbeckett@op-supply.com	Kim Drake
		SD-FA-020	10/01/2012	04/30/2014	American Product Distributors, Inc	Nikki Bradley	704.293.4804	nikkibradley@americanproduct.com	Kim Drake
		PP-FA-261	05/1/2011	04/30/2014	FASTENAL COMPANY	Sheila Rasmussen	507.313.7424	srasmuss@fastenal.com	Kim Drake
		PP-FA-382	02/1/2013	12/31/2015	Cintas Corporation	Erika Rosenberger	708.924.7102	rosenbergere@cintas.com	Kim Drake
		PP-FA-383	02/01/2013	12/31/2015	Odyssey Technologies, Inc	John Webster	301.256.0000	jwebster@remoteeyes.com	Kim Drake
Fire/Life Safety/Security Systems and Services	28 00 00	PP-FA-384	02/01/2013	12/31/2015	Pop-A-Lock	Rob Reynolds	337.233.6211	robreynolds@locksmithforward.com	Kim Drake
		PP-FA-385	02/01/2013	12/31/2015	Siemens Building Technologies, Inc	Paul Muraco	734.502.8911	paul.muraco@siemens.com	Kim Drake
		PP-FA-390	02/1/2013	12/31/2015	Trane USA, Inc	C. Parsons	617.257.4693	reyn_parsons@irco.com	Kim Drake
		PP-IT-079	04/01/2012	03/31/2015	Rauland-Borg Corporation	Robert Barthi	847.679.0900 x 261	bob.barthi@rauland.com	Josh Hedrick
		PP-IT-080	04/01/2012	03/31/2015	West-Com Nurse Call Systems Inc	Mark Peters	707.428.5900 X225	mpeters@westcall.com	Josh Hedrick
Nurse Call Systems	27 00 00	PP-IT-077	04/01/2012	03/31/2015	Hill-Rom Company, Inc.	Diane Kessens	812-934-8338	diane.kessens@hill-rom.com	Josh Hedrick
		PP-IT-078	04/01/2012	03/31/2015	Jeron Electronic Systems, Inc.	Ericka Baran	773.275.1900	ebaran@jeron.com	Josh Hedrick
		PP-IT-076	04/01/2012	03/31/2015	GE Medical Systems Information Technologies, Inc. (Ascom)	Kay McEwing	608.873.3422	kay.mcewing@ascom.com	Josh Hedrick
Renewable Energy (medical waste, material seperation, wind turbine, smart box, inverter)	33 00 00	PP-FA-357	11/1/2012	09/30/2015	MSW Power	Andrea Scott	978.264.0679 x221	ascott@mswpower.com	Kim Drake
Procurement of Energy	33 00 00	PP-FA-276	7/1/2011	06/30/2014	Amerex Brokers, LLC	Erik Swiler	281.340.5276	eswiler@amerexenergy.com	Kim Drake
		PP-FA-278	7/1/2011	06/30/2014	Hospital Energy	Mark Mininberg	860.347.1256	mark@hospitalenergy.com	Kim Drake
		PP-FA-279	7/1/2011	06/30/2014	Vical Energy Consultants, Inc	Evan Roth	201.525.0066	evanr@vicalenergy.com	Kim Drake
		PP-FA-280	7/1/2011	06/30/2014	World Energy Solutions, Inc	Daniel Joyce	508.459.8101	djoyce@worldenergy.com	Kim Drake



**Facilities / EVS / Housekeeping / Support Services
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Products/Services	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-mail	Contract Manager
Can Liners	PP-FA-309	08/01/11	07/31/2014	Heritage Bag Company	Jody Davis	2144323617	jdavis@heritage-bag.com	Kim Drake
	PP-FA-310	08/01/11	07/31/2014	Inteplast Group, Ltd.	Denny Guest	303.688.0462	dquest@inteplast.com	Kim Drake
	PP-FA-308	08/01/11	07/31/2014	Pitt Plastics	Matt O'Doherty	800-835-0366	matto@pittplastics.com	Kim Drake
	SD-FA-009	08/01/11	07/31/2014	District Healthcare and Janitorial Supply	Akia Barbour	301.918.0200	akia@dhc-inc.com	Deborah Williams
Uniforms, Mats, Microfiber and Towels	PP-FA-328 AS-FA-328	03/01/12	02/28/15	Cintas	Erika Rosenberger	708.924.7102	rosenbergere@cintas.com	Chris Dismuke
Disaster and Emergency Response Products and Services	PP-FA-281	06/01/2011	04/30/2014	Clean Harbors Environmental Services	Mark Mendenhall	615-791-1959	mendenhall.mark@cleanharbors.com	Amanda Smith
Energy Efficiency Services (performance based contract whereby suppliers can provide renovation/modernization solutions that will reduce and save on energy cost (e.g. implementation of renewable energies, etc.))	PP-FA-393	02/01/13	12/31/15	Healthcare Energy Solutions	Tom Thelen	314.329.7986	tthelen@hcesenergy.com	Kim Drake
	PP-FA-392	02/01/13	12/31/15	EnerNOC, Inc	Gary Davis	832.470.0424	gdavis@enemroc.com	Kim Drake
	PP-FA-394	02/02/2013	12/31/2015	Performance Services Inc	Jim Christie	317.713.1750	jchristie@performanceservices.com	Kim Drake
	PP-FA-395	02/01/13	12/31/15	Siemens Building Technologies	Dino Caliano	972.207.2832	dino.coliano@siemens.com	Kim Drake
	PP-FA-396	02/01/13	12/31/15	Trane (IR)	Kate Wickham	708.755.9801	Kate.Wickham@trane.com	Kim Drake
Floor Care Equipment and Services (industrial grade cleaning equipment for the maintenance of hard and soft surfaces(Scrubbers, walking or riding, Burnishes, walking or riding, Vacuums, wet/dry, oil, specialty, Extractors, Related accessories))	PP-FA-242 AS-FA-242	03/01/11	02/28/14	TENNANT COMPANY	Rick Cohn	312.375.5855	rick.cohn@tenantco.com	Chris Dismuke
	PP-FA-243	03/01/11	02/28/14	KARCHER NA	Graham Callaway	303.726.4991	graham.callaway@windsorind.com	Chris Dismuke
	PP-FA-244	03/01/11	02/28/14	BETCO CORPORATION	John Sullivan	419.725.5456	jsullivan@betco.com	Chris Dismuke
Hard Copy Document Shredding and Offsite Storage Services	PP-FA-404 AS-FA-404	08/01/2013	07/31/2016	Cintas Corporation	Erika Rosenberger	708.924.7102	rosenbergere@cintas.com	Amanda Smith
	PP-FA-406	08/01/2013	07/31/2016	Shred-It	Andrew Lenardon	905.829.2794	andrew.lenardon@shredit.com	Amanda Smith
	PP-FA-405	08/01/2013	07/31/2016	Secure Document Alliance	Ryan Giffen	801.664.6375	rgiffen@sdadocs.org	Amanda Smith
	PP-FA-403	08/01/2013	07/31/2016	Carolina Records & Information Management	Tray Hoey	803.791.0330	thoey@bellsouth.net	Amanda Smith
Housekeeping Products	PP-FA-320	01/01/12	01/31/15	3M Company	Judy Anderson	651.733.7266	jaanderson@mmm.com	Chris Dismuke
	PP-FA-322 AS-FA-322	01/01/12	01/31/15	Diversey, Inc.	Chip Marshall	443.296.2311	chip.marshall@diversey.com	Chris Dismuke
	PP-FA-323	01/01/12	01/31/15	The Procter & Gamble Distributing LLC	Tom Ellis	704.542.9419	ellis.tj.1@pg.com	Chris Dismuke
	PP-FA-324	01/01/12	01/31/15	Spartan Chemical Company Inc.	Jack Ellison	800.537.8990	jellison@spartanchemical.com	Chris Dismuke
	PP-FA-325	01/01/12	01/31/15	Swisher Hygiene, Inc.	KAT Dunham	7046027170	kdunham@swisherhygiene.com	Chris Dismuke
Laundry Products and Services (small to large drum liquid and power detergents. Also, includes dispensing units)	PP-FA-366	01/01/13	12/31/15	Gurtler	Rod Stutler	708.331.2550	rstutler@gurtler.com	Chris Dismuke
	PP-FA-364	01/01/13	12/31/15	Diversey, Inc.	Chip Marshall	443.296.2311	chip.marshall@diversey.com	Chris Dismuke
	PP-FA-365	01/1/2013	12/31/2015	Ecolab	Derrick Lee	336.848.0611	lee.derrick@ecolab.com	Chris Dismuke
	PP-FA-370	01/01/13	12/31/15	State Industrial Products	Brian Wamser	216.931.7520	bwamser@stateindustrial.com	Chris Dismuke
	PP-FA-367	01/01/13	12/31/15	Midlab Incorporated	Steve Miller	4233373180	smiller@midlab.com	Chris Dismuke
	PP-FA-368	01/01/13	12/31/15	Procter & Gamble	Tom Ellis	704.542.9419	ellis.tj.1@pg.com	Chris Dismuke
	PP-FA-200	01/01/13	12/31/15	Swisher Hygiene, Inc.	James Watts	5132525679	iwatts@washingsystems.com	Chris Dismuke
	PP-FA-369	03/01/13	12/31/15	Spartan Chemical Company Inc.	Jack Ellison	800-537-8990 x431	jellison@spartanchemical.com	Chris Dismuke
	PP-FA-379	11/01/2012	10/31/2015	Northwest Companies	Scott Woods	704.882.7217	scott.woods@northwestmgt.net	Amanda Smith
	MSDS Management Services	PP-FA-245	03/01/11	02/28/14	MSDSONLINE	Chuck Haling	312.881.2225	chaling@msdsonline.com
Paper & Janitorial Supply Distribution	PP-FA-283	11/01/2011	10/31/2014	Afflink, Inc.	David Dell	404.441.8832	ddell@afflink.com	Kim Drake
	PP-FA-284	11/01/2011	10/31/2014	Amsan LLC	Lannie Lohnes	402.453.6644 x 14562	llohn@amsan.com	Kim Drake
	PP-FA-285	11/01/2011	10/31/2014	Hercules & Hercules Inc.	Belinda Jefferson	313.933.6669 x 100	bjefferson@herculesandherculesinc.com	Kim Drake
	PP-FA-286	11/01/2011	10/31/2014	Network Services Company	Mike Olde	847.682.2035	molde@nsconline.com	Kim Drake
	PP-FA-287	11/01/2011	10/31/2014	Staples, Inc.	Jenifer Ren	919.632.1013	jenifer.ren@staples.com	Kim Drake
	PP-FA-288	11/01/2011	10/31/2014	Unisource Worldwide, Inc.	Doug Donovan	2012066201	douglas.donovan@unisourceworldwide.com	Kim Drake
	PP-FA-289	11/01/2011	10/31/2014	Xpedx	Michelle Norton	513.965.2470	michelle.norton@ipaper.com	Kim Drake
	PP-FA-290	11/01/2011	10/31/2014	Triple S	Curt Hitchner	978.667.7900	hitchner@triple-s.com	Kim Drake
	SD-FA-016	11/01/2011	10/31/2014	Materials Management Services, Inc.	Jack Anton	313.365.1290	janton@mms-inc.com	Deborah Williams
	PP-FA-340	04/01/2012	10/31/2014	American Hotel Register Company	Robert Klott	224.688.6114	rklott@americanhotel.com	Kim Drake
	PP-FA-339	02/01/2012	10/31/2014	Pro-Link Inc.	Gerry Charlotin	781.232.9550	gerry.charlotin@prolinkhq.com	Kim Drake
	PP-FA-332	02/01/2012	10/31/2014	Strategic Market Alliance	Alicia Rodriguez	678.349.2963	arodriguez@smasolutions.com	Kim Drake



**Facilities / EVS / Housekeeping / Support Services
Agreements - December 2013**

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Products/Services	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-mail	Contract Manager
Paper Towels & Tissue	PP-FA-407	10/01/2013	09/30/2015	Georgia-Pacific Corporation	Crystal Duncan	770.277.4008	crduncan@gapac.com	Kim Drake
	PP-FA-409	10/01/2013	09/30/2015	Von Drehle Corp.	David Hine	828.322.1805	david.hine@vondrehle.com	Kim Drake
	PP-FA-408	10/01/2013	09/30/2015	Kimberly-Clark Corporation	Stephanie Mead	612.619.0607	stephanie.v.mead@kcc.com	Kim Drake
Parking Management, Equipment, and Services	PP-FA-413 AS-FA-413	09/01/13	08/31/16	Curbside, Inc.	Kristina Lock	978.524.0900 x 110	klock@curbside.com	Chris Dismuke
Pest Elimination Services	PP-FA-235 AS-FA-235	03/01/11	02/28/14	ORKIN INC.	Robb Rebisa	770.220.6135	rrebisa@rollins.com	Chris Dismuke
	PP-FA-236	03/01/11	02/28/14	MASSEY SERVICES INC	Jay Hunt	407.230.4875	jhunt@masseyservices.com	Chris Dismuke
Procurement of Energy (Energy brokers between the member and the energy company, Reverse Auction of Energy, Post to Bid, Member Aggregation, fees for procurement are based on energy usage and charged by the associated energy unit of measure (i.e. dekatherm, kilowatt, gallons, etc.)	PP-FA-276	07/01/11	05/31/14	Amerex Brokers	Erik Swiler	281.340.5276	ESwiler@amerexenergy.com	Kim Drake
	PP-FA-277	07/01/11	05/31/14	Co-exprise, Inc.	Bill Smith	7249331180	wsmith@co-exprise.com	Kim Drake
	PP-FA-278	07/01/11	05/31/14	Hospital Energy Development	Mark Mininberg	203.668.3522	mark@hospitalenergy.com	Kim Drake
	PP-FA-279	07/01/11	05/31/14	Vical Energy Consultants	Evan Roth	201.525.0066	evanr@vicalenergy.com	Kim Drake
	PP-FA-280	07/01/11	05/31/14	World Energy	Dan Joyce	508.459.8157	djoyce@worldenergy.com	Kim Drake
Waste Management Products & Services (waste management services and products, consulting, waste audits, collection, hauling, incineration, landfill, pharmaceutical disposals, regulated medical waste disposal, bioremediation and other waste streams, recycling of light bulbs, batteries, hard drive (any kind laptop, desktop, PATA, SATA and many more),Backup Magnetic Tapes (any kind DLT, mini cartridges and many more),Floppy Disk (3.5 inch disk, 5.25 inch disks, and many more),Zip Disk (100 MB, 250 MB, and other large disks),Optical Media (CD's DVD's, Blue Ray, and HD DVD),CD-ROMs/CD-Rs/DVDs, computer back ups, X-Rays, video tapes, Cassette Tapes, etc.)	PP-FA-399	06/1/2013	05/31/2016	Clean Harbors Environmental Services	Mark Mendenhall	615.681.3357	mendenhall.mark@cleanharbors.com	Kim Drake
	PP-FA-400	06/1/2013	05/31/2016	Daniels Sharpsmart Inc.	David Skinner	805.907.1160	DSkinner@danielsinternational.com	Kim Drake
	PP-FA-401	06/1/2013	05/31/2016	Heritage Environmental Services	Rhue Mulhollen	724.752.8593	rhue.mulhollen@heritage-enviro.com	Kim Drake
	PP-FA-402	06/1/2013	05/31/2016	Stericycle	Mark Battaglia	801.599.6040	mbattaglia@Stericycle.com	Kim Drake
	SD-FA-023	06/1/2013	05/31/2016	OnSite Sterilization	Al Koehler	610.733.3029	akoehler@askonsite.com	Deborah Williams
Batteries and Battery Products	PP-MM-172	08/01/12	07/31/15	Proctor & Gamble (was Gillette)	Bob Maycock	803.329.1827	maycock.re@pg.com	Beth Randolph
	PP-MM-176 AS-MM-176	08/01/12	07/31/15	Energizer	Char Rath	800.426.8268x7003	crath@energizersales.com	Beth Randolph
Bulk Oxygen	PP-MM-072	11/01/09	10/31/14	BOC Gases / Lifegas	Brian Curd	908.771.1731	brian.curd@linde.com	Beth Randolph
	PP-MM-071	11/01/09	10/31/14	Airgas, Inc - Puritan Medical Products	Jerry Anderskow	602.751.3109	jerry.anderskow@airgas.com	Beth Randolph
	PP-MM-070	11/01/09	10/31/14	Air Liquide	Troy Fowler	512.417.9803	troy.fowler@airliquide.com	Beth Randolph
	PP-MM-073	11/01/09	10/31/14	Praxair	Charles Tortorello	630.320.4168	chuck_tortorello@praxair.com	Beth Randolph
Cylinder Gas	PP-MM-184	11/01/12	10/31/15	BOC Gases / Lifegas	Brian Curd	908.771.1731	brian.curd@linde.com	Beth Randolph
	PP-MM-182	11/01/12	10/31/15	Airgas, Inc - Puritan Medical Products	Jerry Anderskow	602.751.3109	jerry.anderskow@airgas.com	Beth Randolph
	PP-MM-183	11/01/12	10/31/15	Air Liquide	Troy Fowler	512.417.9803	troy.fowler@airliquide.com	Beth Randolph
	PP-MM-185	11/01/12	10/31/15	Praxair	Charles Tortorello	630.320.4168	chuck_tortorello.com	Beth Randolph
Office Supplies	PP-MM-234	08/01/13	07/31/16	Staples (formerly Corporate Express)	Jenifer Ren	919.632.1013	jenifer.ren@staples.com	Beth Randolph
	PP-MM-232	08/01/13	07/31/16	Office Depot	Jim Czajka	630.679.1649	jim.czajka@officedepot.com	Beth Randolph
	PP-MM-235	08/01/13	07/31/16	Sun Office	Roger Dieckhaus	866.606.4601	rdieckhaus@sunofficeproducts.com	Beth Randolph
	PP-MM-231	08/01/13	07/31/16	Friends Business Source	Betsy Hughes	419.427.1704	betsy@friendsoffice.com	Beth Randolph
	PP-MM-236	08/01/13	07/31/16	American Office Products Distribution	Sharon Stepien	630.761.0600x105	sharon@aopd.com	Beth Randolph
	PP-MM-233	08/01/13	07/31/16	OfficeMax North America, Inc	Susan Cummings	248.312.9862	susancummings@officemax.com	Beth Randolph
Support Services Outsourcing	PP-MM-213	04/01/13	03/31/16	HHA Services	Kevin Bray	800.442.1140	kbray@hhaservices.com	Beth Randolph
	PP-MM-112	04/01/2013	03/31/2016	Angelica Textile Services	Dana Castle	602.319.7579	dcastle@angelica.com	Beth Randolph
	PP-MM-215	04/01/13	03/31/16	Rickman Enterprise Group LLC	Lawrence Bost	313.454.4000x158	lawrence@rickmanenterprise.com	Beth Randolph
	PP-MM-212	10/01/13	09/30/16	Aramark Uniform & Career Apparel	Ken Weller	936.321.4126	ken.weller@uniform.aramark.com	Beth Randolph
Wall Desks and Patient Charting Equipment	PP-MM-117 AS-MM-117	01/01/11	12/31/2013	First Healthcare Products	Tom Mislin	7167317814	tmislin@firstproducts.com	Beth Randolph



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Products/Services	Contract Number	Effective Date	Expiration Date	Company Name	Contact	Phone	E-mail	Contract Manager
Car Rental Services	PP-MM-155	11/01/2011	10/31/2014	Budget Rent A Car System, Inc	Perry Fry	4045775450	perry.fry@avisbudget.com	Josh Hedrick
	PP-MM-156	11/01/2011	10/31/2014	The Hertz Corporation	Marion Padgett	8036425545	mpadgett@hertz.com	Josh Hedrick
Moving Services	PP-MM-132	08/01/11	07/31/14	Boyer Rosense Moving and Storage	James May	847.385.0262	jmay@bekins.com	Chris Dismuke
	PP-MM-133	08/01/11	07/31/14	Graebel Companies	Jason Studer	704.392.7057	lstuder@graebel.com	Chris Dismuke
	PP-MM-134	08/01/11	07/31/14	Wheaton Van Lines	Aj Schneider	317.849.7900	aj_schneider@wvlcorp.com	Chris Dismuke
	PP-MM-135	08/01/11	07/31/14	Ewing Moving Services	Katrina Lyons	901.774.2197 x6355	klyons@ewingmovingservice.com	Chris Dismuke
	SD-MM-012	08/01/11	07/31/14	Excel Moving Services	Bruce Owashi	800.392.3596 x102	bruce@excelmoving.com	Elaine Hyman
	SD-MM-013	08/01/11	07/31/14	Armstrong Relocation	Bradley Murphy	256.772.6664	bmurphy@goarmstrong.com	Elaine Hyman



IT & Telecom Agreements - December 2013

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Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Diversity	Contract Manager / Director
Ambulatory EMR Software	PP-IT-056	04/01/2011	02/28/2014	Intivia Inc	Randall Redd	877.246.8484 x 116	rredd@intivia.com	MBE	Josh Hedrick
	PP-IT-058	04/01/2011	02/28/2014	SuccessEHS Inc	David Turner	205.871.1031	davidt@ehsmed.com		Josh Hedrick
	PP-IT-081	02/01/2012	02/28/2014	MedPlus Inc	Keith Johnson	513.229.5500	kjohnson@medplus.com		Josh Hedrick
Cellular Voice and Data Services Equipment	PP-IT-084	08/01/2012	07/31/2015	Verizon Wireless	Denise Marcelt	843.696.4900	denise.marcelt@verizonwireless.com		Josh Hedrick
	PP-IT-083	08/01/2012	07/31/2015	AT&T Mobility National Accounts LLC	Ross Deuel	972.977.0248	ross.deuel@att.com		Josh Hedrick
Document Management Solutions	PP-IT-114	08/01/2013	7/31/2016	International Business Solutions Alliance	Amy Cooper	866.704.6262	amy_cooper@ibsaonline.com		Josh Hedrick
	PP-IT-115	08/01/2013	7/31/2016	Ricoh	Scott Petraglia	858.495.1050	Scott.Petraglia@ricoh-usa.com		Josh Hedrick
	PP-IT-116 AS-IT-116	08/01/2013	7/31/2016	The Standard Register Company	Patrick Kennedy	937.221.1516	Pat.Kennedy@standardregister.com		Josh Hedrick
	PP-IT-118	08/01/2013	7/31/2016	Xerox Corporation	Clare Browning-tuch	818.703.8562	Clare.Browning-tuch@xerox.com		Josh Hedrick
	PP-IT-117	08/01/2013	7/31/2016	Workflowone	Michael Giachetti	646.552.8341	michael.giachetti@workflowone.com		Josh Hedrick
Enterprise Image Management Solutions	PP-IT-069	01/01/2012	12/31/2014	Infinitt North America	Deborah Reed	908.387.6960 x 118	dreed@infinittna.com		Josh Hedrick
	PP-IT-070	01/01/2012	12/31/2014	Agfa Healthcare Corporation	Tara Vail	813.282.4506	N/A		Josh Hedrick
	PP-IT-071	01/01/2012	12/31/2014	Fujifilm Medical Systems USA, Inc	Tony Briley	615.594.7168	tbriley@fujifilm.com		Josh Hedrick
Enterprise Data Storage	PP-IT-061	05/01/2011	01/31/2014	Logicalis	Brian Massoudi	704.815.7220	brian.massoudi@us.logicalis.com		Josh Hedrick
	PP-IT-060	05/01/2011	01/31/2014	PC Connection, Inc.	Jerry Morin	708.799.0582	jmorin@moredirect.com		Josh Hedrick
	PP-IT-063	05/01/2011	01/31/2014	CDW Government, Inc.	Jeff Heck	847.419.7317	jeffhec@cdw.com		Josh Hedrick
	PP-IT-062	05/01/2011	01/31/2014	Preferred IT Group, LLC	Jeff Sanderson	260.213.4266 x 107	vendors@preferreditgroup.com		Josh Hedrick
Hardware/Software Asset Management Solutions	PP-IT-072	09/01/2011	07/31/2014	Renovo Solutions	Anne Granum	571.214.9291	agranum@renovo1.com		Josh Hedrick
	PP-IT-073	09/01/2011	07/31/2014	Hardcat Pty Ltd	Tom Vogt	702.589.5839	tvogt@hardcat.com		Josh Hedrick
Nurse Call Systems	PP-IT-079	04/01/2012	03/31/2015	Rauland-Borg Corporation	Robert Barthi	847.679.0900 x 261	bob.barthi@rauland.com		Josh Hedrick
	PP-IT-080	04/01/2012	03/31/2015	West-Com Nurse Call Systems Inc	Mark Peters	707.428.5900 X225	mpeters@westcall.com		Josh Hedrick
	PP-IT-077	04/01/2012	03/31/2015	Hill-Rom Company, Inc.	Diane Kessens	812-934-8338	diane.kessens@hill-rom.com		Josh Hedrick
	PP-IT-078	04/01/2012	03/31/2015	Jeron Electronic Systems, Inc.	Ericka Baran	773.275.1900	ebaran@jeron.com		Josh Hedrick
	PP-IT-076	04/01/2012	03/31/2015	GE Medical Systems Information Technologies, Inc. (Ascom)	Curtis Marks	919.676.2346	curtis.marks@med.ge.com		Josh Hedrick
Patient Visitor Interactive Information Kiosks	PP-IT-074	11/01/2011	10/31/2014	Connected Technology Solutions	Sandra Nix	262.242.6100	info@connectedts.com		Josh Hedrick
	PP-IT-075	11/01/2011	10/31/2014	Encounter Pointe, Inc.	Rick Trojan	949.209.8890	rick.trojan@encounterpointe.com		Josh Hedrick
PC Hardware and Software Resellers	PP-IT-065	10/01/2011	09/30/2014	CDW	Jeff Heck	847.419.7317	jeffhec@cdw.com		Josh Hedrick
	PP-IT-066	10/01/2011	09/30/2014	PC Connection, Inc.	Jerry Morin	708.799.0582	jmorin@moredirect.com		Josh Hedrick
	PP-IT-067	10/01/2011	09/30/2014	Zones Inc	Robert McGowen	206.412.7790	robert.mcgowen@zones.com		Josh Hedrick
	PP-IT-068	10/01/2011	09/30/2014	Paragon Development Systems	John Miller	608.246.2707	jmiller@pdspc.com		Josh Hedrick
Printers, Copiers, Facsimiles, and Facilities Management	PP-IT-089 AS-IT-089	01/01/2013	12/31/2015	Xerox Corporation	Clare Browning-tuch	818 703 8562	Clare.Browning-tuch@xerox.com		Josh Hedrick
	PP-IT-090	01/01/2013	12/31/2015	Ricoh aka Lanier	Scott Petraglia	858.495.1050	scott.petraglia@ricoh-usa.com		Josh Hedrick
	PP-IT-091	01/01/2013	12/31/2015	Konica Minolta	Joseph Nelis	704.661.5505	jnelis@kmb.konicaminolta.us		Josh Hedrick
Reimbursement Software	PP-IT-082	08/01/2012	07/31/2015	3M Health Information Systems					Josh Hedrick
RFID Asset Tracking and Management Solutions	PP-IT-088	08/15/2012	07/31/2015	Ekahau Inc	Joel Mason	571.248.7888	joel.mason@ekahau.com	MBE	Josh Hedrick
	PP-IT-085	04/01/2013	07/31/2015	International Business Solutions	Mark McKinney	937.853.0347	mark_mckinney@ibsaonline.com		Josh Hedrick
	PP-IT-087 AS-IT-087	08/15/2012	07/31/2015	AeroScout Inc	Jesse Gentry	951.325.2100	jesse.gentry@aeroscout.com		Josh Hedrick
	PP-IT-094	01/01/2013	12/31/2015	Breitner Transcription Services, Inc	Owen Breitner	781.828.1807	owen@breitner.com		Josh Hedrick
Transcription Services	PP-IT-092	01/01/2013	12/31/2015	Accutype Medical Services	Tom Golding	913.232.4215	tgolding@accutype.com		Josh Hedrick
	PP-IT-093	01/01/2013	12/31/2015	Acusis LLC	David Brewer	972.757.1079	david.brewer@acusis.com		Josh Hedrick
	PP-IT-096	01/01/2013	12/31/2015	Integrated Document Solutions	Glen Weintraub	954.484.0969	gweintraub@idssite.com		Josh Hedrick
	PP-IT-098	01/01/2013	12/31/2015	Oracle Transcription, Inc.	Gary Nevitt	301.929.9100 x 3004	gary@oraletti.com		Josh Hedrick
	PP-IT-095	01/01/2013	12/31/2015	Healthcare Global Inc	David Ebenezer	781.329.6620	de@healthcareglobal.net		Josh Hedrick
	PP-IT-099	01/01/2013	12/31/2015	Saince Inc	Regina Swope	615.333.2649	regina.swope@saince.com		Josh Hedrick
	PP-IT-097	01/01/2013	12/31/2015	iMedX	Luther Runyon	800.221.0244 x 247	brunyon@imedx.com		Josh Hedrick



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Clinical Capital Agreements - December 2013

Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Contract Manager / Director
Alternate Site Health Care								
Bathing Systems	PP-AC-031	01/01/2011	12/31/2013	Penner Patient Care	Kirk Penner	800.732.0717	pennersales@hamilton.net	Kim Caldwell
	PP-AC-032	01/01/2011	12/31/2013	THE Medical (Tollos)	Anthony Febbraro	410.363.1515	afebbraro@themedical.com	Kim Caldwell
	PP-AC-030	01/01/2011	12/31/2013	TR Group	Jeffrey Wagner	815.494.7851	j.wagner@treqquipment.com	Kim Caldwell
Electric Vehicles	PP-AC-048	12/01/2011	11/30/2014	Club Car LLC	Jim Staub	706.228.2739	jim_staub@clubcar.com	Leslie Totty
EMS Products	PP-AC-034	02/01/2011	01/31/2014	Midwest Medical Supply Company LLC	Richard Hawkins	314.291.2900 x 3251	richard.hawkins@mmsmedical.com	Paula Baker
	PP-AC-035	02/01/2011	01/31/2014	Southeastern Emergency Equipment	Kaile Rizzo	919.435.5931	bids@seequip.com	Paula Baker
Mobile Imaging Services	PP-AC-074	06/01/2013	05/31/2016	Shared Imaging, Inc.	Michael Hall	800.606.0266	mhall@sharedimaging.com	Leslie Totty
Non-Invasive Ventilators - Portable Mass Casualty	PP-AC-084	07/01/2013	06/30/2016	Philips Healthcare	Terry Bryant	630.717.1131	terry.bryant@philips.com	Leslie Totty
Physical Therapy Products	PP-NS-633	03/01/2011	02/28/2014	DYNATRONICS CORPORATION	Larry Beardall	800.874.6251 x 6220	larry@dynatron.com	Kim Caldwell
	PP-NS-634	03/01/2011	02/28/2014	THE MEDCOM GROUP LTD	Joe Perrin	970.674.3032 x 14	joe@medcomgroup.com	Kim Caldwell
	PP-NS-635	03/01/2011	02/28/2014	KINETIC MUSCLES INC	Ed Koeneman	480.557.0448	ekoeneman@kineticmuscles.com	Leslie Totty
	PP-NS-632	03/01/2011	02/28/2014	Sammons Preston Rolyan	Dianne Scheuer	562.598.6898	dianne.scheuer@patterson-medical.com	Paula Baker
	AS-NS-632	03/01/2011	02/28/2014	Sammons Preston Rolyan	Dianne Scheuer	562.598.6898	dianne.scheuer@patterson-medical.com	Paula Baker
SD-NS-008	06/01/2012	02/28/2014	Physical Enterprises, Inc.	Graham Degen	415.845.5731	graham@physicalenterprise.com	Elaine Hyman	
Cardiovascular Services								
External Defibrillators and Related Products	PP-CA-211	06/1/2013	05/31/2016	Physio-Control	Kyle Strever	425.867.4483	kyle.strever@physio-control.com	Rachel Franklin
	PP-CA-209	06/1/2013	05/31/2016	Cardiac Science Corporation	Heather Reindl	262.953.3543	bidadministration@cardiacscience.com	Rachel Franklin
	PP-CA-210	06/1/2013	05/31/2016	Philips Medical Systems	Ron Sanders	610.304.7622	r.l.sanders@philips.com	Rachel Franklin
	PP-CA-212	06/1/2013	05/31/2016	Zoll Medical Corporation	Lynn Conaway	978.421.9655x9394	lconaway@zoll.com	Rachel Franklin
Intra-Aortic Balloon Catheters and Pumps	PP-CA-192	11/01/2011	10/31/2014	Maquet, Inc.	John Pietrantonio	205.332.5551	john.pietrantonio@maquet.com	Rachel Franklin
	AS-CA-192	11/01/2011	10/31/2014	Maquet, Inc.	John Pietrantonio	205.332.5551	john.pietrantonio@maquet.com	Rachel Franklin
Invasive Cardiology Equipment	PP-CA-193	11/01/2011	10/31/2014	Arrow International Inc	Dan Kuni	480.280.4914	dan.kuni@teleflex.com	Rachel Franklin
	PP-CA-195	03/01/2012	02/28/2015	Philips Medical Systems	Ron Sanders	6103047622	r.l.sanders@philips.com	Rachel Franklin
	PP-CA-196	03/01/2012	02/28/2015	Bard Electrophysiology Division, C.R. Bard	Robert Anderson	7707846164	bob.anderson@crbard.com	Rachel Franklin
Non-Invasive Cardiology Equipment	PP-CA-194	03/01/2012	02/28/2015	GE Healthcare	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Rachel Franklin
	AS-CA-194	03/01/2012	02/28/2015	GE Healthcare	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Rachel Franklin
	PP-CA-197	03/01/2012	02/28/2015	GE Healthcare	Curtis Marks	9196762346	curtis.marks@med.ge.com	Rachel Franklin
Thrombectomy Products	PP-CA-198	03/01/2012	02/28/2015	Cardiac Science Corporation	Robert Atkins	4408404474	robert.atkins@mortara.com	Rachel Franklin
	PP-CA-199	03/01/2012	02/28/2015	Welch Allyn Inc	Dean Goldberg	8007694014	goldbergd@welchallyn.com	Rachel Franklin
	PP-CA-204	11/1/2012	10/31/2015	Medrad Intervention Possis	Bonnie Stevens	763.780.8392	bonnie.stevens@bayer.com	Rachel Franklin
Clinical Laboratory Services								
Automated Blood Culture and Mycobacterial Recovery Analyzers, Reagents, Consumables and Service	PP-LA-352	11/01/2013	10/31/2016	Becton Dickinson and Company	Chuck Collis	248.377.9080	charles_collis@bd.com	Charlotte Barber
	AS-LA-353	11/01/2013	10/31/2016	bioMerieux, Inc.	Michael Profenno	339.234.1425	michael.profenno@biomerieux.com	Charlotte Barber
	PP-LA-353	11/01/2013	10/31/2016	bioMerieux, Inc.	Michael Profenno	339.234.1425	michael.profenno@biomerieux.com	Charlotte Barber
Automated Microbial Identification and Susceptibility Analyzers, Reagents, Consumables and Service	PP-LA-354	11/01/2013	10/31/2016	Trek Diagnostic Systems, Inc.	Susan Shrier	800.255.6730	susan.schrier@thermofisher.com	Charlotte Barber
	AS-LA-356	11/01/2013	10/31/2016	Siemens Healthcare Diagnostics Inc (fka Dade)	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-356	11/01/2013	10/31/2016	Siemens Healthcare Diagnostics Inc (fka Dade)	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
Blood Bank Analyzers, Reagents, Consumables and Service	PP-LA-355	11/01/2013	10/31/2016	bioMerieux, Inc.	Michael Profenno	339.234.1425	michael.profenno@biomerieux.com	Charlotte Barber
	PP-LA-320	11/1/2012	10/31/2015	Bio-Rad Laboratories	Brad Burnette	501.944.9414	brad_burnette@bio-rad.com	Charlotte Barber
	AS-LA-320	11/1/2012	10/31/2015	Bio-Rad Laboratories	Brad Burnette	501.944.9414	brad_burnette@bio-rad.com	Charlotte Barber
Blood Gas Analyzers, Reagents, Consumables and Service	PP-LA-321	11/1/2012	10/31/2015	Immucor, Inc	Mary Trout	855.920.6225	mtrout@immucor.com	Charlotte Barber
	PP-LA-322	11/1/2012	10/31/2015	Johnson & Johnson Health Care Systems, Inc.	Michael Dari	732.562.3299	mdari@its.jnj.com	Charlotte Barber
	PP-LA-300	10/01/2011	09/30/2014	Instrumentation Laboratory	Bill Crandell	7816541903	bcrandell@ilww.com	Charlotte Barber
Blood Glucose Meters, Reagents, Consumables and Service	AS-LA-300	10/01/2011	09/30/2014	Instrumentation Laboratory	Bill Crandell	7816541903	bcrandell@ilww.com	Charlotte Barber
	PP-LA-301	10/01/2011	09/30/2014	Siemens Healthcare Diagnostics Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-337	04/1/2013	03/31/2016	Nova Biomedical Corporation	Dick Schneider	9498422659	dschneider@novabio.com	Charlotte Barber
Digital Pathology Systems, Accessories and Service	PP-LA-338	04/01/2013	03/31/2016	Roche Diagnostics Corporation	John Thomson	770.663.6329	john.thomson@roche.com	Charlotte Barber
	AS-LA-338	04/01/2013	03/31/2016	Roche Diagnostics Corporation	John Thomson	770.663.6329	john.thomson@roche.com	Charlotte Barber
General Laboratory Products, Equipment and Service	PP-LA-327	08/01/2012	07/31/2015	DigiPath, Inc	Steve Barbee	702.527.2060	steve@digipath.biz	Charlotte Barber
	PP-LA-302	01/01/2012	12/31/2014	Helmer, Inc.	Shannon Krenz	800.743.5637 x 3926	skrenz@helmerinc.com	Charlotte Barber



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Clinical Capital Agreements - December 2013

Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Contract Manager / Director
Hematology Analyzers, Automation, Reagents, Consumables and Service	PP-LA-345 AS-LA-345	08/01/2013	07/31/2016	Sysmex America, Inc.	Bonnie Streeter	407.324.0491	streeterb@sysmex.com	Charlotte Barber
	PP-LA-344	08/01/2013	07/31/2016	Beckman Coulter Inc	Ann Iannuzzi	774.270.6959	amiannuzzi@beckman.com	Charlotte Barber
	PP-LA-343	08/01/2013	07/31/2016	Abbott Laboratories, Inc.	Ronald Burke	8479371133	ronald.burke@abbott.com	Charlotte Barber
Hemostasis Analyzers, Reagents, Consumables and Service	PP-LA-347	08/01/2013	07/31/2016	Siemens Healthcare Diagnostics Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-346	08/01/2013	07/31/2016	Werfen USA, LLC - formerly Beckman Coulter Inc	Lewis Staum	614.581.8729	lstaum@ilww.com	Charlotte Barber
	PP-LA-348 AS-LA-348	08/01/2013	07/31/2016	Diagnostica Stago, Inc.	Robert Hewitt	973.452.1858	robert.hewitt@us.stago.com	Charlotte Barber
Histology and Cytology Instruments, Reagents and Consumables	PP-LA-289	10/01/2011	09/30/2014	Richard-Allan Scientific	Susan Burns	502.468.5794	susan.burns@thermofisher.com	Charlotte Barber
	PP-LA-290	10/01/2011	09/30/2014	Statlab Medical Products	Jeffrey Hayes	913.461.4000	jhayes@statlab.com	Charlotte Barber
	PP-LA-303	10/01/2011	09/30/2014	Medite, Inc.	Drew Ranostaj	407.996.9630	ranostaj@medite-group.com	Charlotte Barber
Integrated Platform (Chemistry and Immunochemistry Analyzers, Automation, Reagents, Consumables and Service)	PP-LA-335 AS-LA-335	4/1/2013	03/31/2019	Siemens Healthcare Diagnostics Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-333	4/1/2013	03/31/2019	Beckman Coulter Inc	Ann Iannuzzi	774.270.6959	amiannuzzi@beckman.com	Charlotte Barber
	PP-LA-334	4/1/2013	03/31/2019	Roche Diagnostics Corporation	John Thomson	7706636329	john.thomson@roche.com	Charlotte Barber
Manual Microbiology	PP-LA-293	10/01/2011	09/30/2014	bioMerieux, Inc.	Michael Profenno	8006822666	michael.profenno@biomerieux.com	Charlotte Barber
Microscopes, Accessories, Parts and Service	PP-LA-307	02/01/2012	01/31/2015	Olympus America, Inc.	Tom Moher	561-676-5000	tom.moher@olympus.com	Charlotte Barber
Molecular Analyzers, Reagents, Consumables and Service	PP-LA-297	10/01/2011	09/30/2014	Roche Diagnostics Corporation	John Thomson	7706636329	john.thomson@roche.com	Charlotte Barber
	PP-LA-296	10/01/2011	09/30/2014	bioMerieux, Inc.	Michael Profenno	8006822666	michael.profenno@biomerieux.com	Charlotte Barber
	PP-LA-298	10/01/2011	09/30/2014	Siemens Healthcare Diagnostics Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
Molecular Rapid Qualitative Screening	PP-LA-287	05/1/2011	04/30/2014	CEPHEID	Joy Cloninger	9105061928	joy.cloninger@cepheid.com	Charlotte Barber
	PP-LA-308	04/01/2012	04/30/2014	Meridian Bioscience Corporation	Tamara Stojanovski	602-363-3361	tamara.stojanovski@meridianbioscience.com	Charlotte Barber
	PP-LA-288	05/1/2011	04/30/2014	GENEOHM SCIENCES INC	Anita Patel	8002197174	anita_patel@bd.com	Charlotte Barber
Near Patient Testing (NPT) - Clinical Chemistry/Immunoassay	PP-LA-336	01/01/2013	10/31/2014	Siemens Healthcare Diagnostics, Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-305	11/01/2011	10/31/2014	bioMerieux, Inc.	Michael Profenno	8006822666	michael.profenno@biomerieux.com	Charlotte Barber
Platelet Function Analyzers, Reagents, Consumables and Service	PP-LA-283 AS-LA-283	04/01/2011	03/31/2014	SIEMENS HEALTHCARE DIAGNOSTICS INC	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
Point of Care (POC) Blood Gas and Additional Tests	PP-LA-342	04/01/2013	03/31/2016	Alere	Nancy McGinty	978.846.1771	nancy.mcginty@alere.com	Charlotte Barber
Point of Care (POC) Creatinine	PP-LA-340	04/01/2013	03/31/2016	Nova Biomedical Corporation	Dick Schneider	9498422659	dschneider@novabio.com	Charlotte Barber
Point of Care (POC) Hemoglobin	PP-LA-341	04/01/2013	03/31/2016	Hemocue, Inc.	Matthew Lewis	804.836.2280	matthew.j.lewis@hemocue.com	Charlotte Barber
Point-of-Care (POC) Coagulation Meters, Reagents, Consumables and Service	PP-LA-339 AS-LA-339	04/01/2013	03/31/2016	International Technidyne Corporation	William Healy	800.272.1252 x 351	bhealy@itcmed.com	Charlotte Barber
Specialty Distribution - Laboratory and/or Research Products	PP-LA-329	01/01/2013	12/31/2015	Fisher Healthcare	Ann Folker	2059369072	ann.folker@thermofisher.com	Rachel Franklin
	PP-LA-328	01/01/2013	12/31/2015	Cardinal Health 200 Inc	Craig Rothman	973.467.0566	craig.rothman@cardinalhealth.com	Rachel Franklin
	PP-LA-331	01/01/2013	12/31/2015	Laboratory Supply Company, Inc	George Ksenich	800.888.5227 x1036	gksenich@labsco.com	Rachel Franklin
	PP-LA-330	01/01/2013	12/31/2015	Infolab Inc	Tammy Bridges	3362722874	tammybridges@infolabinc.com	Rachel Franklin
Speciality Distribution - Research	RS-LA-001	08/01/2011	0731/2014	VWR International	Jack Querio	779.225.8714	jack_querio@vwr.com	Charlotte Barber
Transfusion, Blood Donor Services, Equipment and Supplies	PP-LA-318	10/01/2012	09/30/2015	Pall Corporation	Timothy Lynch	7084226196	tim_lynch@pall.com	Charlotte Barber
Urinalysis Analyzers, Reagents, Consumables and Service	PP-LA-350 AS-LA-350	08/01/2013	07/31/2016	Siemens Healthcare Diagnostics Inc	Alan Quinn	6035021777	alan.d.quinn@siemens.com	Charlotte Barber
	PP-LA-351	08/01/2013	07/31/2016	Sysmex America, Inc.	Bonnie Streeter	407.324.0491	streeterb@sysmex.com	Charlotte Barber
	PP-LA-269	08/01/2013	07/31/2016	Beckman Coulter - formerly Iris Diagnostics	Ann Iannuzzi	774.270.6959	amiannuzzi@beckman.com	Charlotte Barber



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Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Contract Manager / Director
Imaging								
Bone Densitometry	PP-IM-183	10/01/2012	09/30/2015	GE Healthcare	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Dave Natale
	PP-IM-204	10/01/2012	09/30/2015	Hologic Inc	Robert Scholl	440.321.2914	robert.scholl@hologic.com	Dave Natale
Cardiovascular Imaging (Cardiac Catheterization, Vascular Systems)	PP-IM-184	10/01/2012	09/30/2015	GE Healthcare	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Dave Natale
	PP-IM-192	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-198	10/01/2012	09/30/2015	Toshiba America Medical Systems, Inc.	Angie Ferguson	847.910.5027	aferguson@tams.com	Dave Natale
Computed Radiography	PP-IM-216	01/01/2013	12/31/2015	Agfa Healthcare Corporation	Ray Russell	8644211747	ray.russell@agfa.com	Dave Natale
	PP-IM-218	01/01/2013	12/31/2015	Carestream Health Inc	Lisa Frank	770.977.3660	lisa.frank@carestreamhealth.com	Dave Natale
	PP-IM-219	01/01/2013	12/31/2015	Philips Healthcare	Peter Grant	703.464.0901	peter.grant@philips.com	Dave Natale
	PP-IM-215	01/01/2013	12/31/2015	Fujifilm Medical Systems USA, Inc.	Tony Briley	615.594.7168	tony.briley@fujimed.com	Dave Natale
	PP-IM-217	01/01/2013	12/31/2015	Konica Minolta Medical Imaging USA Inc	Gordon Walker	242.347.6642	gordon.walker@konicaminolta.com	Dave Natale
Computed Tomography	PP-IM-185	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	888.501.2927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-193	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-199	10/01/2012	09/30/2015	Toshiba America Medical Systems, Inc.	Angie Ferguson	847.910.5027	aferguson@tams.com	Dave Natale
Contrast Media Injectors / Disposables	PP-IM-168 AS-IM-168	01/01/2012	12/31/2014	Bracco Diagnostics, Inc	Cheri Fisher	515.681.3566	cheri.fisher@diag.bracco.com	Dave Natale
	PP-IM-169	01/01/2012	12/31/2014	Mallinckrodt, Inc	Greg Goodall	7574509234	greg.goodall@coviden.com	Dave Natale
	PP-IM-170	01/01/2012	12/31/2014	Medrad, Inc.	Cameron Cook	412.767.2400	cameron.cook@bayer.com	Dave Natale
Conventional Film, Dry Media and Printers	PP-IM-160	09/01/2011	08/31/2014	Fujifilm Medical Systems USA, Inc.	Tony Briley	6155947168	tbriley@fujifilm.com	Dave Natale
	PP-IM-159	09/01/2011	08/31/2014	Agfa Healthcare Corporation	Ray Russell	8644211747	ray.russell@agfa.com	Dave Natale
External Beam Radiation Therapy Systems	PP-IM-221	03/01/2013	02/29/2016	Sensus Healthcare	Rick Golin	5619225808	rick@sensushhealthcare.com	Dave Natale
General Radiography (Radiography, Radiography & Fluoroscopy, C-Arms, Portable Radiography)	PP-IM-180	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	888.501.2927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-189	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-197	10/01/2012	09/30/2015	Toshiba America Medical Systems, Inc.	Angie Ferguson	847.910.5027	aferguson@tams.com	Dave Natale
	PP-IM-211	10/01/2012	09/30/2015	Fujifilm Medical Systems USA, Inc.	Tony Briley	6155947168	tbriley@fujifilm.com	Dave Natale
	PP-IM-212	10/01/2012	09/30/2015	Agfa Healthcare Corporation	Nikisha Williams	864.421.1721	nikisha.williams@agfa.com	Dave Natale
	PP-IM-213	10/01/2012	09/30/2015	Konica Minolta Medical Imaging USA Inc	Gordon Walker	242.347.6642	gordon.walker@konicaminolta.com	Dave Natale
	PP-IM-214	10/01/2012	09/30/2015	Carestream Health	Mary Lanni	203.918.1248	marylouise.lanni@carestream.com	Dave Natale
Magnetic Resonance Imaging	PP-IM-186	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	8885012927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-194	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-200	10/01/2012	09/30/2015	Toshiba America Medical Systems, Inc.	Angie Ferguson	8479105027	aferguson@tams.com	Dave Natale
	PP-IM-205	10/01/2012	09/30/2015	Hologic Inc	Robert Scholl	440.321.2914	robert.scholl@hologic.com	Dave Natale
	PP-IM-207	10/01/2012	09/30/2015	Invivo Corporation	Kenneth Rhodes	919.671.6018	krhodes@invivocorp.com	Dave Natale
Mammography Products and Services	PP-IM-182	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	8885012927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-191	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-203	10/01/2012	09/30/2015	Hologic Inc	Robert Scholl	440.321.2914	robert.scholl@hologic.com	Dave Natale
	PP-IM-206	10/01/2012	09/30/2015	Faxitron Bioptics	Paul Murtagh	520.399.8180	pmurtagh@faxitron.com	Dave Natale
Mobile C-Arms	PP-IM-181	10/01/2012	09/30/2015	GE-OEC Medical Systems	Stephen Raque	800.728.6596	stephen.raque@med.ge.com	Dave Natale
	PP-IM-190	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-202	10/01/2012	09/30/2015	Hologic Inc	Robert Scholl	440.321.2914	robert.scholl@hologic.com	Dave Natale
	PP-IM-208	10/01/2012	09/30/2015	Ziehm Imaging Inc	Bernie Byers	407.615.8560	bernie.byers@ziehm.com	Dave Natale
Molecular Imaging (Nuclear Medicine, PET/PET-CT)	PP-IM-187	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	8885012927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-195	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
MRI Compatible Monitoring Equipment (Patient Monitoring, Infusion Pumps)	PP-IM-176 AS-IM-176	01/01/2011	01/31/2015	IRadimed Corporation	Brent Johnson	407.927.5180	bjohnson@iradimed.com	Dave Natale
	PP-IM-177 AS-IM-177	01/01/2011	01/31/2015	Invivo Corporation	Kenneth Rhodes	919.671.6018	krhodes@invivocorp.com	Dave Natale
	PP-IM-178	01/01/2011	01/31/2015	Medrad, Inc.	Cameron Cook	412.767.2400	cameron.cook@bayer.com	Dave Natale
Radiation Treatment Planning	PP-IM-220	03/01/2013	02/29/2016	Philips Healthcare	Ron Sciepkko	704.254.0682	ron.sciepkko@philips.com	Dave Natale
Specialty Distribution - Imaging / Radiation Oncology Equipment and Supplies	PP-IM-179	04/01/2012	03/31/2015	National Healthcare Distribution	William Mena	805.581.1980	bmena@nhd.net	Dave Natale



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Ultrasound (Radiology, Cardiology, Hand Carried)	PP-IM-188	10/01/2012	09/30/2015	GE Healthcare	Peter Aftosmes	8885012927	peter.aftosmes@med.ge.com	Dave Natale
	PP-IM-196	10/01/2012	09/30/2015	Siemens Medical Solutions	Roger Lindgren	901.237.7665	roger.lindgren@siemens.com	Dave Natale
	PP-IM-201	10/01/2012	09/30/2015	Toshiba America Medical Systems, Inc.	Angie Ferguson	8479105027	aferguson@tams.com	Dave Natale
	PP-IM-209	10/01/2012	09/30/2015	Sonosite, Inc.	Dean Ehlers	262.827.9311	dean.ehlers@sonosite.com	Dave Natale
	PP-IM-210	10/01/2012	09/30/2015	Mindray DS USA	John Tull	201.995.8000	j.tull@mindray.com	Dave Natale
Nursing								
Airway Clearance Products	PP-NS-697	05/01/2012	04/30/2015	Hill-Rom Company, Inc.	Diane Kessens	812.934.8338	diane.kessens@hill-rom.com	Rosanna Rumbough
	PP-NS-699	05/01/2012	04/30/2015	Electromed Inc	Patti Radford	952.758.0359	pradford@electromed-usa.com	Charon Byrd
	PP-NS-698	05/01/2012	04/30/2015	Thayer Medical Corporation	Bridget Riceci	520.790.5393 x 2290	bridget.riceci@thayermedical.com	Meg Wyatt
Dialysis Products and Accessories	PP-NS-693	11/01/2011	10/31/2014	B. Braun Medical Inc.	Sam Amory	6106915400	sam.amory@bbraun.com	Charon Byrd
Electronic Thermometry	PP-NS-667	06/1/2011	05/31/2014	WELCH ALLYN INC	Dean Goldberg	800.769.4014 x 3125	goldbergd@welchallyn.com	Rosanna Rumbough
	AS-NS-667			EXERGEN CORPORATION	Marybeth Pompei	6179239900	mpompei@exergen.com	Rosanna Rumbough
Invasive Hemodynamic Monitoring Products and Accessories	PP-NS-673	07/01/2011	06/30/2014	EDWARDS LIFESCIENCES CORPORATION	Kristina Reyes	9492502642	kristina_reyes@edwards.com	Meg Wyatt
	PP-NS-674	07/01/2011	06/30/2014	ICU MEDICAL INC.	Mark Jorgensen	949.366.3550	mjorgensen@icumed.com	Charon Byrd
	AS-NS-674							
IV Therapy Products - Large Volume, PCA, Syringe Pumps with Pump Specific Sets	PP-IV-010	02/01/2009	01/31/2014	Carefusion 303	Joan Roberts	8174943916	joan.roberts@carefusion.com	Rosanna Rumbough
	PP-IV-013	02/01/2009	01/31/2014	Baxter Healthcare Corporation	Bob Buthod	8472705011	bob_buthod@baxter.com	Meg Wyatt
	PP-IV-014	02/01/2009	01/31/2014	Excelsior Medical Corporation	Anthony Saia	8475339189	tsaia@excelsiormedical.com	Meg Wyatt
	PP-IV-015	02/01/2009	01/31/2014	Hospira Worldwide	Dale Overcash	7048929870	dale.overcash@hospira.com	Charon Byrd
	PP-IV-017	02/01/2009	01/31/2014	Sigma International General Medical Apparatus LLC	Bob Buthod	8472705011	bob_buthod@baxter.com	Meg Wyatt
	PP-IV-018	02/01/2009	01/31/2014	Smiths Medical MD Inc	Juliet Larson	9726790889	juliet.larson@smiths-medical.com	Meg Wyatt
	PP-IV-018	02/01/2009	01/31/2014	Baxter Healthcare Corporation	Bob Buthod	8472705011	bob_buthod@baxter.com	Meg Wyatt
IV Therapy Products: Pharmacy Capital Equipment and Admixture Supplies	PP-IV-043	02/01/2009	01/31/2014	Baxter Healthcare Corporation	Bob Buthod	8472705011	bob_buthod@baxter.com	Meg Wyatt
	PP-IV-045	02/01/2009	01/31/2014	Hospira Worldwide	Dale Overcash	7048929870	dale.overcash@hospira.com	Charon Byrd
IV Therapy Products: Non-Pharmacy Capital Equipment	PP-IV-042	02/01/2009	01/31/2014	B. Braun Medical Inc.	William Miller	5135617224	bill.miller@bbraun.com	Charon Byrd
Negative Pressure Wound Therapy	PP-IV-012	02/01/2009	01/31/2014	B. Braun Medical Inc.	William Miller	5135617224	bill.miller@bbraun.com	Charon Byrd
	PP-NS-772	06/1/2013	05/31/2016	SMITH NEPHEW INC WOUND MANAGEMENT DIVISION	John Mallon	630.886.4074	john.mallon@smith-nephew.com	Meg Wyatt
	PP-NS-771	06/1/2013	05/31/2016	KCI USA INC	Steve Panek	618.974.0880	stephen.panek@kci1.com	Meg Wyatt
AS-NS-771								
Patient Bedside Products	PP-NS-669	07/01/2011	06/30/2014	Medical Action Industries, Inc.	Ronald Chapman	704.288.6788	ronald.chapman@medical-action.com	Rosanna Rumbough
	PP-NS-670	07/01/2011	06/30/2014	Medline Industries Inc.	Mark Parry	7049622111	mparry@medline.com	Meg Wyatt
	PP-NS-671	07/01/2011	06/30/2014	Vernacare Inc.	Lynn-Marie Green	8002682422	lynn-marie_green@vernacare.com	Charon Byrd
	PP-NS-672	07/01/2011	06/30/2014	Church Products	Judith Church	8003178161	judi@comfortpan.com	Meg Wyatt
Patient Lifts and Lateral Transfer Devices	PP-NS-709	08/01/2012	07/31/2015	ArjoHuntleigh Inc	Don Webster	602.751.2398	donald.webster@arjohuntleigh.com	Rosanna Rumbough
	PP-NS-710	08/01/2012	07/31/2015	THE Medical	Anthony Febbraro	410.363.1515	afebbraro@themedical.com	Rosanna Rumbough
	PP-NS-711	08/01/2012	07/31/2015	Joerns Healthcare Inc	Jack Sheehan	980.875.0244	jack.sheehan@joerns.com	Rosanna Rumbough
	PP-NS-712	08/01/2012	07/31/2015	Hill-Rom Company, Inc.	Diane Kessens	812.934.8338	diane.kessens@hill-rom.com	Rosanna Rumbough
	PP-NS-714	08/01/2012	07/31/2015	EZ Way Inc	Mary Landhuis	712.542.5102 x1810	mlandhuis@ezlifts.com	Rosanna Rumbough
	PP-NS-715	08/01/2012	07/31/2015	Guldmann, Inc.	Linda Bowman	813.880.0619 x202	lb@guldmann.net	Charon Byrd
	PP-NS-716	08/01/2012	07/31/2015	Hovertech International	Stacey Bailey	610.694.9600 x104	sbailey@hovermatt.com	Rosanna Rumbough
	PP-NS-717	08/01/2012	07/31/2015	McAuley Medical	John McAuley	603.227.7287	john@mcauleymedical.com	Meg Wyatt
	PP-NS-718	08/01/2012	07/31/2015	RoMedic Inc	Hans Sigvardsson	888.625.4343	hans.sigvardsson@romedic.com	Meg Wyatt
PP-NS-719	08/01/2012	07/31/2015	Smart Medical Technology Inc	Curtis Pouncy	630.964.1689	cpouncy@smartmedtechnology.com	Charon Byrd	



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Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Contract Manager / Director
Patient Temperature Management Products and Accessories	PP-NS-666	07/01/2011	06/30/2014	Life Recovery Systems HD LLC	Russell Von Zandt	9732832800	rdvz@live.com	Meg Wyatt
	PP-NS-663	07/01/2011	06/30/2014	Cincinnati Sub-Zero Products, Inc.	Dave Hensley	5137728810	dhensley@cszinc.com	Rosanna Rumbough
	PP-NS-664	07/01/2011	06/30/2014	Philips Medical Systems	Douglas Mccannel	8587139524	douglas.mccannel@philips.com	Rosanna Rumbough
	PP-NS-661	07/01/2011	06/30/2014	Stryker Corporation	Jay McCullough	205.515.7982	jay.mccullough@stryker.com	Meg Wyatt
	PP-NS-662	07/01/2011	06/30/2014	Adroit Medical Systems Inc	Scott Gammons	8654588600	scott@adroitmedical.com	Rosanna Rumbough
Pulse Oximetry Devices	PP-NS-700	06/01/2012	02/28/2015	Covidien	Greg Goodall	7574509234	greg.goodall@covidien.com	Rosanna Rumbough
	PP-NS-701	06/01/2012	02/28/2015	Masimo Americas	Thomas Coy	4405460794	tcoy@masimo.com	Rosanna Rumbough
	PP-NS-702	06/01/2012	02/28/2015	Smiths Medical	Juliet Larson	972.679.0889	juliet.larson@smiths-medical.com	Meg Wyatt
Sedation Monitoring	PP-NS-752	01/01/2013	07/30/2015	Covidien US	Greg Goodall	508.261.8213	greg.goodall@covidien.com	Rosanna Rumbough
	PP-NS-753	01/01/2013	07/30/2015	Masimo Americas	Thomas Coy	440.546.0794	tcoy@masimo.com	Rosanna Rumbough
Vascular Compression Therapy	PP-NS-739	12/1/2012	11/30/2015	ArjoHuntleigh, Inc	Don Webster	602.751.2398	donald.webster@arjohuntleigh.com	Charon Byrd
	PP-NS-738	12/1/2012	11/30/2015	Covidien, US	Greg Goodall	508.261.8213	greg.goodall@covidien.com	Rosanna Rumbough
	PP-NS-740 AS-NS-740	12/1/2012	11/30/2015	Compression Therapy Concepts	Frank Ripullo	800.993.9013	fripullo@ctcdvt.com	Meg Wyatt
Pharmacy								
Automated Medication Distribution	PPPH14AMT01	07/01/2011	06/30/2014	Automed Technologies, Inc	Chris Leeds	407.701.0324	cleeds@amerisourcebergen.com	Michele Wright
	PPPH14CFS01	07/01/2011	06/30/2014	Carefusion Solutions, Inc	David Dahle	704.281.8720	david.dahle@carefusion.com	Michele Wright
	PPPH14MBH01	07/01/2011	06/30/2014	Mckesson Automation, Inc	Lisa Henke	727.859.4350	lisa.henke@mckesson.com	Michele Wright
	PPPH14OMN01	07/01/2011	06/30/2014	Omnicell, Inc	Mike Dean	650.251.6200	mikede@omnicell.com	Michele Wright
	PPPH14PSS01	07/01/2011	06/30/2014	PAR Excellence Systems, Inc.	Dick Felger	513.936.9744	dfelger@parexcellencesystems.com	Michele Wright
	PPPH14SWS01	07/01/2011	06/30/2014	Swisslog Management AG	Robin Arnold	303.576.8890	robin.arnold@swisslog.com	Michele Wright
Outpatient Pharmacy Technology	PPPH14KIR01	07/01/2011	06/30/2014	Kirby Lester, LLC	Mike Turone	847.984.0304	mturone@kirbylester.com	Michele Wright
	PPPH14ASR01	01/01/2012	06/30/2014	Asteres Inc.	Tony Bono	858.777.8619	tbono@asteres.com	Michele Wright
	PPPH14RXS01	07/01/2011	06/30/2014	Rx Security, Inc	Tricia Brommit	800.667.9723	tbrommit@rxsecurity.com	Michele Wright
Pharmacy Refrigerators	PPPH12AMA02	03/01/2011	02/28/2014	AMA Scientific, LLC	Josh Camp	609.267.2508	josh.camp@amascientific.com	Michele Wright
	PPPH12HLM01	03/01/2011	02/28/2014	Helmer, Inc.	Shannon Krenz	800.743.5637 x 3926	skrenz@helmerinc.com	Michele Wright
IV Robotics - Prep and Filling Devices	PPPH15CMC01	03/01/2012	02/28/2015	Chemocato, LLC	Thomas /herndi	212.473.2362	therndl@chemocato.com	Michele Wright
Primary Control Devices (IV Hoods)	PPPH16BAK01	07/01/2013	06/30/2016	The Baker Company	Cybelle Guerrero	800.992.2537	cybellebakerc@ao.com	Michele Wright
	PPPH16NUA01	07/01/2013	06/30/2016	Nuaire, Inc	Holly Milless	800.328.3352 x 276	hmilless@nuaire.com	Michele Wright
Wireless Temperature Monitoring	PPPH14ISX01	04/01/2011	03/31/2014	Isensix	Donna Shaw	312.848.5200	dshaw@isensix.com	Michele Wright
	PPPH14REE01	04/01/2011	03/31/2014	Rees Scientific	Len Manzie	609.530.1055	contracts@reesscientific.com	Michele Wright
	PPPH14SNS01	04/01/2011	03/31/2014	SensoScientific Inc	Patricia Schaefer	805.823.8400	pat@sensoscientific.com	Michele Wright
	PPPH14CPR01	02/15/2012	03/31/2014	Cooper-Atkins Corporation	Glenn Marcus	847.373.2033	gmarcus@cooper-atkins.com	Michele Wright
	PPPH14TMP01	04/01/2011	03/31/2014	Tempsys Inc	Craig Austin	510.526.7624	ca@tempsys.net	Michele Wright
Support Services								
Bulk Oxygen	PP-MM-070	11/01/2009	10/31/2014	Air Liquide Healthcare	Troy Fowler	5124179803	troy.fowler@airliquide.com	Beth Randolph
	PP-MM-071	11/01/2009	10/31/2014	Airgas, Inc	Jerry Anderskow	6027513109	jerry.anderskow@airgas.com	Beth Randolph
	PP-MM-072	11/01/2009	10/31/2014	Lifegas	Mark Sanda	908.464.8100	mark.sanda@linde.com	Beth Randolph
	PP-MM-073	11/01/2009	10/31/2014	Praxair, Inc	Charles Tortorello	6303204168	chuck_tortorello@praxair.com	Beth Randolph
High Frequency Oscillatory and Intensive Care Ventilators	PP-MM-139	07/1/2011	06/30/2014	CareFusion 211	Joan Roberts	8174943916	joan.roberts@carefusion.com	Chris Dismuke
	PP-MM-141	07/1/2011	06/30/2014	Draeger Medical Inc	David Mickelson	2157215784	david.mickelson@draeger.com	Chris Dismuke
	PP-MM-140	07/1/2011	06/30/2014	Nellcor Puritan Bennett, Inc.	Greg Goodall	7574509234	greg.goodall@covidien.com	Chris Dismuke
	PP-MM-142	07/1/2011	06/30/2014	Maquet, Inc.	Greg Patrick	7703311450	greg.patrick@maquet-inc.com	Chris Dismuke
	PP-MM-143	07/1/2011	06/30/2014	Newport Medical Instruments	Patti Gunter	214.399.1062	pgunter@newportmedical.com	Chris Dismuke
Patient Beds, Mattresses and Therapeutic Surfaces - Purchase	PP-MM-196	03/1/2013	02/29/2016	ARJOHuntleigh	Win Hansen	913.608.1748	win.hansen@kci.com	Chris Dismuke
	PP-MM-195	03/1/2013	02/29/2016	Hill-Rom Company, Inc.	Mac Jolly	972.955.0762	mac.jolly@hill-rom.com	Chris Dismuke
	PP-MM-199	03/1/2013	02/29/2016	Stryker	Jay McCullough	2055159482	jay.mccullough@stryker.com	Chris Dismuke
	PP-MM-197	03/1/2013	02/29/2016	Linnet Americas	Jim frost	704.248.5650	jim.frost@linnetamericas.com	Chris Dismuke
	PP-MM-198	03/1/2013	02/29/2016	Sizewise Rentals	Karen Campbell	608.347.3280	kcampbell@sizewise.net	Chris Dismuke



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Physiological Monitoring Systems	PP-MM-162	03/01/2012	02/28/2015	Authentidate Holding Corp	Seth Loonan	9087871855	sloonan@authentidate.com	Chris Dismuke
	PP-MM-163	03/01/2012	02/28/2015	CJPS Healthcare Supplies and Equipment	Christophe Sevrain	2485931264	christophe@cjps-healthcare.com	Chris Dismuke
	PP-MM-164	03/01/2012	02/28/2015	GE Medical Systems Information Technologies, Inc.	Curtis Marks	9196762346	curtis.marks@med.ge.com	Chris Dismuke
	PP-MM-165	03/01/2012	02/28/2015	Nihon Kohden America, Inc.	Jim Fagan	8003250283	jim_fagan@nkusa.com	Chris Dismuke
	PP-MM-166	03/01/2012	02/28/2015	Philips Healthcare	Ron Sanders	6103047622	r.i.sanders@philips.com	Chris Dismuke
	PP-MM-167 AS-MM-167	03/01/2012	02/28/2015	Welch Allyn Inc	Dean Goldberg	8007694014	goldbergd@welchallyn.com	Chris Dismuke
Polysomnography, Neurological Equipment and Accessories	PP-MM-210	05/01/2013	04/30/2016	Cadwell Laboratories, Inc.	Virginia Kellogg	509.735.6481x130	viriniak@cadwell.com	Chris Dismuke
	PP-MM-208	05/01/2013	04/30/2016	Electrical Geodesics, Inc	Ann Bunnenburg	541.687.7962	abberg@easystreet.net	Chris Dismuke
	PP-MM-209	05/01/2013	04/30/2016	Nihon Kohden America, Inc.	Jim Fagan	8003250283	jim_fagan@nkusa.com	Chris Dismuke
Pulmonary Function and Metabolic Analyzers	PP-MM-136	07/01/2011	06/30/2014	Alliance Tech Medical, Inc.	Jeffrey Janisch	N/A	jjanisch@alliancetechnical.com	Chris Dismuke
	PP-MM-138	07/01/2011	06/30/2014	Medical Graphics Corporation	Maureen Vandal	6514844874	mvandal@medgraphics.com	Chris Dismuke
	PP-MM-137	07/01/2011	06/30/2014	CareFusion 211	Joan Roberts	8174943916	joan.roberts@carefusion.com	Chris Dismuke
Stretchers	PP-MM-205	03/01/2013	02/29/2016	Hill-Rom Company, Inc.	Mac Jolly	972.955.0762	mac.jolly@hill-rom.com	Chris Dismuke
	PP-MM-207	03/01/2013	02/29/2016	Stryker Medical	Jay McCullough	205.515.9482	jay.mccullough@stryker.com	Chris Dismuke
	PP-MM-206	03/01/2013	02/29/2016	Pedigo Products, Inc	Brenda Gillas	800.822.3501 x103	brenda.gillas@pedigo-usa.com	Chris Dismuke
Wall Desks and Patient Charting Equipment and Supplies	PP-MM-117 AS-MM-117	01/01/2011	12/31/2013	First Hospital Products, Inc.	Tom Mislin	7167317814	tmislin@firstproducts.com	Beth Randolph
Surgical Services								
Anesthesia Equipment Accessories and Supplies	PP-OR-1014 AS-OR-1014	07/01/2013	06/30/2016	GE Medical Systems Information Technologies, Inc.	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Ben Robinson
	PP-OR-1013 AS-OR-1013	07/01/2013	06/30/2016	Draeger Medical Inc	David Mickelson	215.721.5784	david.mickelson@draeger.com	Ben Robinson
Arthroscopy Supplies	PP-OR-1000	05/01/2013	04/30/2016	Conmed / Linvatec	Robert Deluca	7045547367	bobdeluca@conmed.com	Ben Robinson
	PP-OR-1001	05/01/2013	04/30/2016	Microaire Surgical Instruments, Inc	Kamran Shibli	434.975.8000	karman@shibli@microaire.com	Kimberly Diewald
	PP-OR-1002	05/01/2013	04/30/2016	National Advanced Endoscopy Devices, Inc	Gayle Butler	818.227.2720	gayle@aed.md	Christian Flohr
	PP-OR-1003	05/01/2013	04/30/2016	Nexus Surgical Inc	Kevin Jensen	775.297.4300	kevin@nexus-surgical.com	Kimberly Diewald
	PP-OR-1005 PP-OR-1004	05/01/2013 05/01/2013	04/30/2016 04/30/2016	Stryker Smith & Nephew Inc Endoscopy Division	Jay McCullough Larry Dooley	205.515.9482 817.307.5059	jay.mccullough@stryker.com larry.dooley@smith-nephew.com	Kimberly Diewald Brian Maas
Automated Endoscopic Reprocessor	PP-OR-815	03/01/2012	02/28/2015	Johnson & Johnson Health Care Systems, Inc.	Kit Schumaker	2673373146	kschumak@its.jnj.com	Ben Robinson
	PP-OR-816 PP-OR-817 AS-OR-817	03/01/2012	02/28/2015	Minntech Corp Steris Corporation	Gil Rico Brian Thomas	6128053614 6362735845	grico@minntech.com brian_thomas@steris.com	Christian Flohr Ben Robinson
	PP-OR-814	03/01/2012	02/28/2015	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Kimberly Diewald
ETO Sterilizers	PP-OR-819	03/01/2012	02/28/2015	Johnson & Johnson Health Care Systems, Inc.	Kit Schumaker	2673373146	kschumak@its.jnj.com	Ben Robinson
Gas Plasma Sterilization	PP-OR-820 AS-OR-820	03/01/2012	02/28/2015	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Kimberly Diewald
	PP-OR-980	02/01/2013	01/31/2016	Boston Scientific Company	Randy Renners	513.348.0061	randy.renners@bsci.com	Ben Robinson
Gastrointestinal Endoscopy Products	PP-OR-981	02/01/2013	01/31/2016	Olympus America Inc	Dennis Sporleder	949.831.8732	dennis.sporleder@olympus.com	Ben Robinson
	PP-OR-982	02/02/2013	01/31/2016	Conmed Corporation	Michael Tallman	800.765.8375x3233	michael_tallman@mail.conmed.com	Ben Robinson
	PP-OR-983	02/02/2013	01/31/2016	EndoChoice	Hagan Jordan	770.712.0188	hagan.jordan@endochoice.com	Ben Robinson
	PP-OR-984	02/02/2013	01/31/2016	Cook Medical, Inc.	Chris Smith	8004681379x5061	chris.smith@cookmedical.com	Ben Robinson
	PP-OR-768	11/01/2011	10/31/2014	Deroyal Industries Inc	Erik Osland	6027439688	eosland@deroyal.com	Brian Maas
Liquid Medical Waste Management Systems	PP-OR-769	11/01/2011	10/31/2014	Zimmer US Inc formerly Dornoch Medical Systems, Inc.	Bob Aitson	412.889.2769	bob.hitson@zimmer.com	Ben Robinson
	PP-OR-770 AS-OR-770	11/01/2011	10/31/2014	Stryker Corporation	Jay McCullough	205.515.9482	jay.mccullough@stryker.com	Kimberly Diewald
Medical Lasers and Light Based Systems	PP-OR-864	05/01/2012	04/30/2015	Lumenis	Mark Merritt	408.764.3000	mark.merritt@lumenis.com	Brian Maas
	PP-OR-863 AS-OR-863	05/01/2012	04/30/2015	MaxiFlex LLC	John Elmore	866.629.4359	jelmore@maxiflexllc.com	Brian Maas



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	PP-OR-862 AS-OR-862	05/01/2012	04/30/2015	Laser Engineering	Brian Sanders	615.231.4506	b.sanders@sslaserengineering.com	Brian Maas



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Neurosurgical Products	PP-OR-759	09/01/2011	08/31/2014	INTEGRA NEUROSCIENCES	Christopher Bartlett	3212467107	christopher.bartlett@integralife.com	Kimberly Diewald
	PP-OR-760	09/01/2011	08/31/2014	Misonix Inc	Patel Valentine	631.694.9555	pvalentine@misonix.com	Ben Robinson
	PP-OR-761	09/01/2011	08/31/2014	Stryker	Jay McCullough	205.515.9482	jay.mccullough@stryker.com	Kimberly Diewald
	PP-OR-758	09/01/2011	08/31/2014	Aesculap, Inc.	John Hay	7705600740	john.hay@aesculap.com	Kimberly Diewald
OR Integration/Automation Systems	PP-OR-771	01/01/2012	12/31/2014	Nuvo, Inc.	Brett Messina	8148994220	brett.messina@nuvosurgical.com	Christian Flohr
	PP-OR-772	01/01/2012	12/31/2014	Olympus America, Inc.	Cliff Echard	8006458100	cliff.echard@olympus.com	Ben Robinson
	PP-OR-773	01/01/2012	12/31/2014	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Kimberly Diewald
	PP-OR-774	01/01/2012	12/31/2014	Skytron	Michael Breslin	6023217048	mbreslin@skytron.us	Ben Robinson
	PP-OR-775	01/01/2012	12/31/2014	Oasys Healthcare Corporation	Dave Stinson	9058523399	dstinson@oasyshealthcare.com	Christian Flohr
	PP-OR-780	01/01/2012	12/31/2014	Stryker Corporation	Jay McCullough	205.515.9482	jay.mccullough@stryker.com	Kimberly Diewald
OR Lights and Booms	PP-OR-958	02/01/2013	01/31/2016	Maquet, Inc.	Melissa Paquee	973.709.7305	melissa.paquee@maquet-inc.com	Christian Flohr
	PP-OR-961	02/01/2013	01/31/2016	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Kimberly Diewald
	PP-OR-962	02/01/2013	01/31/2016	Stryker Corporation	Jay McCullough	205.515.9482	jay.mccullough@stryker.com	Kimberly Diewald
	PP-OR-960	02/01/2013	01/31/2016	Skytron	Trent Donley	404.402.8603	tdonley@skytron.us	Ben Robinson
OR Tables	PP-OR-965	02/01/2013	01/31/2016	Maquet, Inc.	Melissa Paquee	973.709.7305	melissa.paquee@maquet-inc.com	Christian Flohr
	PP-OR-967	02/01/2013	01/31/2016	Skytron	Trent Donley	404.402.8603	tdonley@skytron.us	Ben Robinson
	PP-OR-968	02/01/2013	01/31/2016	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Kimberly Diewald
	PP-OR-969	02/01/2013	01/31/2016	Schaerer Mayfield USA	Cindy Wilder	513.561.2241x2170	cindy.wilder@schaerermayfieldusa.com	Christian Flohr
Orthopedic Power Tools and Accessories	PP-OR-1016	05/01/2013	04/30/2016	Brasseler USA	Sandra Peacock	800.569.6738x7001	sandrapeacock@brasselerusamedical.com	Brian Maas
	PP-OR-1017 AS-OR-1017	05/01/2013	04/30/2016	Conmed / Linvatec	Robert Deluca	704.554.7367	bob_deluca@mail.conmed.com	Ben Robinson
	PP-OR-1018 AS-OR-1018	05/01/2013	04/30/2016	Stryker Instruments	Jay McCullough	205.515.9482	jay.mccullough@stryker.com	Kimberly Diewald
Perfusion Products	PP-OR-800	02/01/2012	01/31/2015	Terumo Cardiovascular Systems	Michael Buscemi	800.262.3304 x 6874	michael.buscemi@terumomedical.com	Brian Maas
	PP-OR-798	02/01/2012	01/31/2015	Medtronic Usa, Inc.	Tim Howard	763.514.4000	tim.howard@medtronic.com	Brian Maas
	PP-OR-799	02/01/2012	01/31/2015	Sorin Group S.p.a.	Keith Robbins	303.467.6636	keith.robbs@sorin.com	Brian Maas
Refurbished OR Capital Equipment	PP-OR-951	10/01/2012	09/30/2015	Future Health Concept	Kimberly Kern	407.322.3672	kkern@fhcusa.com	Christian Flohr
	PP-OR-952	10/01/2012	09/30/2015	Heartland Medical Sales and Services, LLC	Michael Dirr	502.671.1014	mdirr@heartlandmeds.com	Christian Flohr
	PP-OR-953	10/01/2012	09/30/2015	Metropolitan Medical Services	Jeffrey Rhinehart	828.250.0171	j.rhinehart@metropolitanmed.com	Christian Flohr
	PP-OR-954	10/01/2012	09/30/2015	Steris Corporation	Brian Thomas	636.273.5845	brian_thomas@steris.com	Christian Flohr
	PP-OR-955	10/01/2012	09/30/2015	World Medical Equipment	Kevin Grant		kgrant@worldmedicalequip.com	Christian Flohr
Smoke Evacuation Systems and Related Accessories	PP-OR-1025	09/01/2013	08/31/2016	Covidien Sales LLC	Greg Goodall	508.261.8213	greg.goodall@covidien.com	Kimberly Diewald
	PP-OR-1024	09/01/2013	08/31/2016	IC Medical	Carmen Petrov	623.780.0700	carmen@icmedical.com	Christian Flohr
	PP-OR-1023 AS-OR-1023	09/01/2013	08/31/2016	Buffalo Filter	Kathleen Albon	716.835.7000 x 210	kathleen.albon@buffalofilter.com	Brian Maas
Steam Sterilizers	PP-OR-821	03/01/2012	02/28/2015	Belimed Inc	Pam Palmer	8432167424	ppalmer@belimed.us	Christian Flohr
	PP-OR-822	03/01/2012	02/28/2015	Getinge USA Inc	Charles Burrage	7139078195	charles.burrage@getingeusa.com	Christian Flohr
	PP-OR-823 AS-OR-823	03/01/2012	02/28/2015	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Christian Flohr
Surgical Endoscopy and Video Equipment	PP-OR-777 AS-OR-777	01/01/2012	12/31/2014	Stryker Endoscopy	Jay McCullough	205.515.9482	jay.mccullough@stryker.com	Kimberly Diewald
	PP-OR-778	01/01/2012	12/31/2014	Olympus America, Inc.	Pres Judy	404.863.4597	pres.judy@olympus.com	Ben Robinson
Surgical Energy Products	PP-OR-665	09/01/2010	08/31/2015	Conmed Corporation	Ron Bellamy			Ben Robinson
	PP-OR-664	09/01/2010	08/31/2015	Tyco Healthcare (Valleylab)	Greg Goodall	7574509234	greg.goodall@covidien.com	Kimberly Diewald
	PP-OR-994	01/01/2013	08/31/2015	Ethicon Endosurgery, Inc	Mark Volino	770.329.6654	mvolino@its.jnj.com	Kimberly Diewald
	PP-OR-666	09/01/2010	08/31/2015	Medline Industries Inc.	Mark Pary	7049622111	mparry@medline.com	Kimberly Diewald
Surgical Headlights	PP-OR-922	10/01/2012	09/30/2015	Designs for Vision, Inc	Jeff Anderson	631.585.3404	jeffanderson@dvimail.com	Brian Maas
	PP-OR-923	10/01/2012	09/30/2015	SheerVision Incorporated	Martin Chaput	310.265.8918 x213	mchaput@sheervision.com	Brian Maas
	PP-OR-924	10/01/2012	09/30/2015	Sunoptic Technologies	Dave Mutch	904.737.7611	dave.mutch@sunoptictech.com	Brian Maas
Video Laryngoscopes	PP-OR-781	10/01/2011	09/30/2014	Ambu Inc	Sam Settar	804.512.2392	sse@ambu.com	Ben Robinson



Clinical Capital Agreements - December 2013

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 Deb Raper, Clinical Director, Imaging, 704.816.5189
deb_raper@premierinc.com

Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Contract Manager / Director
Video Laryngoscopes	PP-OR-782	10/01/2011	09/30/2014	King Systems Corp	Nina Jones	3177766823	njones@kingsystems.com	Ben Robinson



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Clinical Capital Agreements - December 2013

Products	Contract Number	Start Date	End Date	Company Name	Contact	Phone	E-mail	Contract Manager / Director
Washers and Decontaminators	PP-OR-824	03/01/2012	02/28/2015	Belimed Inc	Pam Palmer	8432167424	ppalmer@belimed.us	Christian Flohr
	PP-OR-825	03/01/2012	02/28/2015	Getinge USA Inc	Charles Burrage	7139078195	charles.burrage@getingeusa.com	Christian Flohr
	PP-OR-826	03/01/2012	02/28/2015	Midbrook Inc	Tammy Vannest	5177873481	tvannest@midbrook.com	Christian Flohr
	PP-OR-827 AS-OR-827	03/01/2012	02/28/2015	Steris Corporation	Brian Thomas	6362735845	brian_thomas@steris.com	Christian Flohr
Women and Children Capital								
Bladder Scanners	PP-WC-111	05/01/2013	04/30/2016	Otodynamics Ltd	John Morgan	828.478.9880	john@otodynamics.com	Charon Byrd
	PP-WC-064	06/01/2011	05/31/2014	Medline Industries Inc.	Mark Parry	704.814.0941	mparry@medline.com	Meg Wyatt
Breast Screening Equipment - Non-Radiology	PP-WC-085	04/01/2012	03/31/2015	NeoMatrix	John Stroh	949.753.7844		Rosanna Rumbough
Breast Pump Equipment and Accessories	PP-WC-057 AS-WC-057	04/01/2011	03/31/2014	Evenflo Company, Inc.	Jill Love	6145716291	jill.love@ameda.com	Charon Byrd
	PP-WC-058	04/01/2011	03/31/2014	Limerick Inc	Patricia Kelly	818.566.3060 x 103	patricia.kelly@limerickinc.com	Charon Byrd
	SD-WC-010	10/01/2012	03/31/2014	Genadyne Biotechnologies	Maria Lynch	561.843.3171	maria@lucinacare.com	Charon Byrd
	PP-WC-056	04/01/2011	03/31/2014	Medela, Incorporated	James Hughes	435.831.6583	jim.hughes@medela.com	Charon Byrd
Cerebral and Regional Oximetry Equipment	PP-WC-055	02/01/2011	01/31/2014	Nonin Medical Inc	Phil Strasser	612.325.6311	phil.strasser@nonin.com	Rosanna Rumbough
	PP-WC-073	11/01/2011	01/31/2014	Nellcor Puritan Bennett, Inc.	Greg Goodall	757.450.9234	greg.goodall@covidien.com	Rosanna Rumbough
Cribs, Bassinets, Youth Beds and Related Products	PP-WC-110	04/1/2013	03/31/2016	Homewood Health Care	Donald Delewese	614.766.4862	ddelewese@homewoodhealthcare.com	Charon Byrd
	PP-WC-108 AS-WC-108	04/01/13	03/31/2016	Pedigo Products, Inc	Brenda Gillas	800.822.3501x103	brenda.gillas@pedigo-usa.com	Charon Byrd
	PP-WC-109	04/01/13	03/31/2016	Suburban Surgical	richard McLean	847.777.3600	rdmclean@suburbansurgical.com	Charon Byrd
	PP-WC-107	04/1/2013	03/31/2016	NK Medical Products Inc	Joseph Manzella	716.759.7200	jmanzella@nkmedicalproducts.com	Charon Byrd
Fetal Monitoring	PP-WC-088 AS-WC-088	03/01/2012	02/28/2015	GE Medical Systems Information Technologies, Inc.	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Rosanna Rumbough
	PP-WC-089	03/01/2012	02/28/2015	Philips Healthcare	Peter Grant	7034640901	peter.grant@philips.com	Rosanna Rumbough
Handheld Dopplers	PP-WC-066	08/01/2011	07/31/2014	ARJOhuntleigh	Chris Ryan	800.323.12455 x 4537	christopher.ryan@arjohuntleigh.com	Charon Byrd
	PP-WC-067	08/01/2011	07/31/2014	Newman Medical	Spencer Newman	847.283.9177	spencer.newman@newman-medical.com	Charon Byrd
Infant Care Capital Equipment	PP-WC-093	08/01/2012	07/31/2015	Datex-Ohmeda, Inc.	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Rosanna Rumbough
	PP-WC-094	08/01/2012	07/31/2015	Children's Medical Ventures	Michael Kniery	615.426.4362	mike.kniery@philips.com	Rosanna Rumbough
	PP-WC-095 AS-WC-095	08/01/2012	07/31/2015	Draeger Medical Inc	David Mickelson	215.721.5784	david.mickelson@draeger.com	Rosanna Rumbough
	PP-WC-096	08/01/2012	07/31/2015	Fisher & Paykel Healthcare, Inc.	Amy Schwegler	949.453.4000 x 1305	amy.schwegler@fphcare.com	Rosanna Rumbough
	PP-WC-097	08/01/2012	07/31/2015	Neoforce Group, Inc.	Monica Ferrante	215.672.6800 x203	monica.ferrante@neoforcegroup.com	Rosanna Rumbough
	PP-WC-098	08/01/2012	07/31/2015	Medela, Incorporated	James Hughes	800.435.8316 x5583	jim.hughes@medela.com	Charon Byrd
OB Data Management Systems	PP-WC-086 AS-WC-086	03/01/2012	02/28/2015	GE Medical Systems Information Technologies, Inc.	Curtis Marks	919.676.2346	curtis.marks@med.ge.com	Rosanna Rumbough
	PP-WC-087	03/01/2012	02/28/2015	Philips Healthcare	Peter Grant	7034640901	peter.grant@philips.com	Rosanna Rumbough
Radio Frequency Band Adult & Infant Security Systems	PP-WC-084	12/01/2011	11/30/2014	RF Technologies	David Barden	2628531268	dbarden@rft.com	Rosanna Rumbough
Simulation Training Equipment and Centers	PP-WC-101	12/1/2012	11/30/2014	Ambu, Inc	John Schmitz	800.262.8673	jws@ambu.com	Meg Wyatt
	PP-WC-100	12/1/2012	11/30/2014	Laerdal Medical Corp	Bruce Cadwell	800.297.7770	bruce.cadwell@laerdal.com	Rosanna Rumbough
Vein Finder Equipment	PP-WC-074	10/01/2011	09/30/2014	AccuVein, LLC	Keith Popp	888.909.8888	keith@accuvein.com	Charon Byrd
	PP-WC-075	10/01/2011	09/30/2014	Christie Medical Holdings, Inc	Lisa Rains	205.807.0741	lisa.rains@christiedigital.com	Charon Byrd
Emergency Evacuation System	PP-WC-083	12/01/2011	11/30/2014	Evacucorp, Inc	Chip Conner	502.876.1439	chip_scm@hotmail.com	Rosanna Rumbough
Food Service								
Vending Machines and Services	SD-DI-002	01/01/2012	12/31/2014	Gilly Vending	Gilda Rosenberg	305.620.8081	gilda@gillyvending.com	Deborah Williams

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
- B. Related Requirements:
 - 1. Section 011000 "Summary" for work restrictions and limitations on utility interruptions.
 - 2. Section 312319 "Dewatering" for disposal of ground water at Project site.
 - 3. Section 321216 "Asphalt Paving" for construction and maintenance of asphalt pavement for temporary roads and paved areas.
 - 4. Section 321313 "Concrete Paving" for construction and maintenance of cement concrete pavement for temporary roads and paved areas.

1.3 USE CHARGES

- A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, [Owner's construction forces,] Architect, [occupants of Project,] testing agencies, and authorities having jurisdiction.
- B. Sewer Service: [Pay] [Owner will pay] sewer-service use charges for sewer usage by all entities for construction operations.
- C. Water Service: [Pay] [Owner will pay] water-service use charges for water used by all entities for construction operations.
- D. Electric Power Service: [Pay] [Owner will pay] electric-power-service use charges for electricity used by all entities for construction operations.
- E. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.
- F. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.
- G. Sewer, Water, and Electric Power Service: Use charges are specified in Section 011200 "Multiple Contract Summary."

1.4 INFORMATIONAL SUBMITTALS

- A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.
- B. Erosion- and Sedimentation-Control Plan: Show compliance with requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
- C. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.
- D. Moisture-Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage.
 - 1. Describe delivery, handling, and storage provisions for materials subject to water absorption or water damage.
 - 2. Indicate procedures for discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and replacing water-damaged Work.

3. Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these operations. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.

E. Dust- and HVAC-Control Plan: Submit coordination drawing and narrative that indicates the dust- and HVAC-control measures proposed for use, proposed locations, and proposed time frame for their operation. Identify further options if proposed measures are later determined to be inadequate. Include the following:

1. Locations of dust-control partitions at each phase of work.
2. HVAC system isolation schematic drawing.
3. Location of proposed air-filtration system discharge.
4. Waste handling procedures.
5. Other dust-control measures.

1.5 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.
- C. Accessible Temporary Egress: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and ICC/ANSI A117.1.

1.6 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Polyethylene Sheet: Reinforced, fire-resistive sheet, 10-mil minimum thickness, with flame-spread rating of 15 or less per ASTM E 84 and passing NFPA 701 Test Method 2.
- B. Dust-Control Adhesive-Surface Walk-off Mats: Provide mats minimum 36 by 60 inches.
- C. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.
- D. Metal framing and gypsum board for temporary enclosures and partitions.

2.2 TEMPORARY FACILITIES

- A. Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect, Construction Manager, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly.

2.3 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
- B. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control.
1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
 2. Heating Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.
 3. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return-air grille in system and

remove at end of construction and clean HVAC system as required in Section 017700 "Closeout Procedures".

- C. Air-Filtration Units: Primary and secondary HEPA-filter-equipped portable units with four-stage filtration. Provide single switch for emergency shutoff. Configure to run continuously.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
 - 1. Locate facilities to limit site disturbance as specified in Section 011000 "Summary."
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
 - 1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
- B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.
 - 1. Connect temporary sewers to [municipal system] [private system indicated] as directed by authorities having jurisdiction.
- C. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction.
- D. Water Service: Connect to Owner's existing water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- E. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
 - 1. Toilets: Use of Owner's existing toilet facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.
- F. Heating[and Cooling]: Provide temporary heating[and cooling] required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed.
- G. Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas.
 - 1. Prior to commencing work, isolate the HVAC system in area where work is to be performed according to coordination drawings.
 - a. Disconnect supply and return ductwork in work area from HVAC systems servicing occupied areas.
 - b. Maintain negative air pressure within work area using HEPA-equipped air-filtration units, starting with commencement of temporary partition construction, and continuing until removal of temporary partitions is complete.
 - 2. Maintain dust partitions during the Work. Use vacuum collection attachments on dust-producing equipment. Isolate limited work within occupied areas using portable dust-containment devices.
 - 3. Perform daily construction cleanup and final cleanup using approved, HEPA-filter-equipped vacuum equipment.

- H. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
 - 1. Provide dehumidification systems when required to reduce substrate moisture levels to level required to allow installation or application of finishes.
- I. Electric Power Service: Connect to Owner's existing electric power service. Maintain equipment in a condition acceptable to Owner.
- J. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.
 - 1. Install electric power service [overhead] [underground] unless otherwise indicated.
 - 2. Connect temporary service to Owner's existing power source, as directed by Owner.
- K. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
 - 1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
 - 2. Install lighting for Project identification sign.

3.3 SUPPORT FACILITIES INSTALLATION

- A. General: Comply with the following:
 - 1. Provide construction for temporary offices, shops, and sheds located within construction area or within 30 feet of building lines that is noncombustible according to ASTM E 136. Comply with NFPA 241.
 - 2. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.
- B. Temporary Roads and Paved Areas: Construct and maintain temporary roads and paved areas adequate for construction operations. Locate temporary roads and paved areas [as indicated] [within construction limits indicated] on Drawings.
 - 1. Provide dust-control treatment that is nonpolluting and nontracking. Reapply treatment as required to minimize dust.
- C. Temporary Use of Permanent Roads and Paved Areas: Locate temporary roads and paved areas in same location as permanent roads and paved areas. Construct and maintain temporary roads and paved areas adequate for construction operations. Extend temporary roads and paved areas, within construction limits indicated, as necessary for construction operations.
 - 1. Coordinate elevations of temporary roads and paved areas with permanent roads and paved areas.
 - 2. Prepare subgrade and install subbase and base for temporary roads and paved areas according to Section 312000 "Earth Moving."
 - 3. Recondition base after temporary use, including removing contaminated material, regrading, proofrolling, compacting, and testing.
 - 4. Delay installation of final course of permanent hot-mix asphalt pavement until immediately before Substantial Completion. Repair hot-mix asphalt base-course pavement before installation of final course according to Section 321216 "Asphalt Paving."
- D. Traffic Controls: Comply with requirements of authorities having jurisdiction.
 - 1. Protect existing site improvements to remain including curbs, pavement, and utilities.
 - 2. Maintain access for fire-fighting equipment and access to fire hydrants.
- E. Parking: [Provide temporary] [Use designated areas of Owner 's existing] parking areas for construction personnel.
- F. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of water.

1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
 2. Remove snow and ice as required to minimize accumulations.
- G. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
1. Identification Signs: Provide Project identification signs as indicated on USDA RD Standard Job Sign Detail attached to this Section.
 2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
 - a. Provide temporary, directional signs for construction personnel and visitors.
 3. Maintain and touchup signs so they are legible at all times.
- H. Waste Disposal Facilities: Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."
- I. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress cleaning requirements in Section 017300 "Execution."
- J. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.
- K. Temporary Elevator Use: [Use of elevator s is not per mitted] [See Section 142400 " Hydraulic Elevators" for temporary use of new elevators].
- L. Existing Elevator Use: Use of Owner's existing elevators will be permitted, provided elevators are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore elevators to condition existing before initial use, including replacing worn cables, guide shoes, and similar items of limited life.
1. Do not load elevators beyond their rated weight capacity.
 2. Provide protective coverings, barriers, devices, signs, or other procedures to protect elevator car and entrance doors and frame. If, despite such protection, elevators become damaged, engage elevator Installer to restore damaged work so no evidence remains of correction work. Return items that cannot be refinished in field to the shop, make required repairs and refinish entire unit, or provide new units as required.
- M. Temporary Stairs: Until permanent stairs are available, provide temporary stairs where ladders are not adequate.
- N. Existing Stair Usage: Use of Owner's existing stairs will be permitted, provided stairs are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore stairs to condition existing before initial use.
1. Provide protective coverings, barriers, devices, signs, or other procedures to protect stairs and to maintain means of egress. If stairs become damaged, restore damaged areas so no evidence remains of correction work.
- O. Temporary Use of Permanent Stairs: Use of new stairs for construction traffic will be permitted, provided stairs are protected and finishes restored to new condition at time of Substantial Completion.
- 3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION
- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
1. Comply with work restrictions specified in Section 011000 "Summary."

- C. Temporary Erosion and Sedimentation Control: Comply with[requirements of 2003 EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent and] requirements specified in Section 311000 "Site Clearing."
- D. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to [erosion- and sedimentation-control Drawings] [requirements of 2003 EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent].
1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree- or plant- protection zones.
 2. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
 3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from Project site during the course of Project.
 4. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
- E. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- F. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.
- G. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using environmentally safe materials.
- H. Site Enclosure Fence: [Before construction operations begin] [Prior to commencing earthwork], furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.
1. Extent of Fence: [As required to enclose entire Project site or portion determined sufficient to accommodate construction operations] [As indicated on Drawings].
 2. Maintain security by limiting number of keys and restricting distribution to authorized personnel.[Furnish one set of keys to Owner.]
- I. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each work day.
- J. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- K. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction.
- L. Covered Walkway: Erect protective, covered walkway for passage of individuals through or adjacent to Project site. Coordinate with entrance gates, other facilities, and obstructions. Comply with regulations of authorities having jurisdiction[and requirements indicated on Drawings].
1. Construct covered walkways using scaffold or shoring framing.
 2. Provide overhead decking, protective enclosure walls, handrails, barricades, warning signs, exit signs, lights, safe and well-drained walkways, and similar provisions for protection and safe passage.
 3. Paint and maintain appearance of walkway for duration of the Work.
- M. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.
1. Where heating or cooling is needed and permanent enclosure is incomplete, insulate temporary enclosures.

- N. Temporary Partitions: Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by Owner from fumes and noise.
1. Construct dustproof partitions with gypsum wallboard with joints taped on occupied side, and fire-retardant-treated plywood on construction operations side.
 2. Construct dustproof partitions with two layers of 6-mil polyethylene sheet on each side. Cover floor with two layers of 6-mil polyethylene sheet, extending sheets 18 inches up the sidewalls. Overlap and tape full length of joints. Cover floor with fire-retardant-treated plywood.
 - a. Construct vestibule and airlock at each entrance through temporary partition with not less than 48 inches between doors. Maintain water-dampened foot mats in vestibule.
 3. Where fire-resistance-rated temporary partitions are indicated or are required by authorities having jurisdiction, construct partitions according to the rated assemblies.
 4. Insulate partitions to control noise transmission to occupied areas.
 5. Seal joints and perimeter. Equip partitions with gasketed dustproof doors and security locks where openings are required.
 6. Protect air-handling equipment.
 7. Provide walk-off mats at each entrance through temporary partition.
- O. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.
1. Prohibit smoking in construction areas.
 2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
 4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.

3.5 MOISTURE AND MOLD CONTROL

- A. Contractor's Moisture-Protection Plan: Avoid trapping water in finished work. Document visible signs of mold that may appear during construction.
- B. Exposed Construction Phase: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect as follows:
1. Protect porous materials from water damage.
 2. Protect stored and installed material from flowing or standing water.
 3. Keep porous and organic materials from coming into prolonged contact with concrete.
 4. Remove standing water from decks.
 5. Keep deck openings covered or dammed.
- C. Partially Enclosed Construction Phase: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold spores, protect as follows:
1. Do not load or install drywall or other porous materials or components, or items with high organic content, into partially enclosed building.
 2. Keep interior spaces reasonably clean and protected from water damage.
 3. Periodically collect and remove waste containing cellulose or other organic matter.
 4. Discard or replace water-damaged material.
 5. Do not install material that is wet.
 6. Discard, replace, or clean stored or installed material that begins to grow mold.
 7. Perform work in a sequence that allows any wet materials adequate time to dry before enclosing the material in drywall or other interior finishes.
- D. Controlled Construction Phase of Construction: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:
1. Control moisture and humidity inside building by maintaining effective dry-in conditions.
 2. Use permanent HVAC system to control humidity.

3. Comply with manufacturer's written instructions for temperature, relative humidity, and exposure to water limits.
 - a. Hygroscopic materials that may support mold growth, including wood and gypsum-based products, that become wet during the course of construction and remain wet for [48] <Insert time period> hours are considered defective.
 - b. Measure moisture content of materials that have been exposed to moisture during construction operations or after installation. Record readings beginning at time of exposure and continuing daily for [48] <Insert time period> hours. Identify materials containing moisture levels higher than allowed. Report findings in writing to Architect.
 - c. Remove materials that can not be completely restored to their manufactured moisture level within [48] <Insert time period> hours.

3.6 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Operate Project-identification-sign lighting daily from dusk until 12:00 midnight.
- D. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- E. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
 2. Remove temporary roads and paved areas not intended for or acceptable for integration into permanent construction. Where area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant materials or lawns. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by authorities having jurisdiction.
 3. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 017700 "Closeout Procedures."

END OF SECTION 015000

SECTION 033000 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes, for the following:
 - 1. Footings.
 - 2. Foundation walls.
 - 3. Slabs-on-grade.
 - 4. Concrete Piers/Pedestals.
 - 5. Miscellaneous exterior concrete, including equipment pads, patios and sidewalks.
- B. Related Sections:
 - 1. Section 312000 "Earth Moving" for drainage fill under slabs-on-grade.

1.3 DEFINITIONS

- A. Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash and other pozzolans, ground granulated blast-furnace slag, and silica fume; subject to compliance with requirements.

1.4 ACTION SUBMITTALS

- A. Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 - 1. Indicate amounts of mixing water to be withheld for later addition at Project site.
- B. Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement. Include bar sizes, lengths, material, grade, bar schedules, stirrup spacing, bent bar diagrams, bar arrangement, splices and laps, mechanical connections, tie spacing, hoop spacing, and supports for concrete reinforcement.
- C. Construction Joint Layout: Indicate proposed construction joints required to construct the structure.
 - 1. Location of construction joints is subject to approval of the Architect.
- D. Material Test Reports: For the following, from a qualified testing agency, indicating compliance with requirements:

1. Aggregates. [**Include service record data indicating absence of deleterious expansion of concrete due to alkali aggregate reactivity.**]

E. Field quality-control test and inspection reports.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: A qualified installer who employs on Project personnel qualified as ACI-certified Flatwork Technician and Finisher and a supervisor who is an ACI-certified Concrete Flatwork Technician.

B. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.

1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."

C. Testing Agency Qualifications: An independent agency, [**acceptable to authorities having jurisdiction,**] qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.

1. Personnel conducting field tests shall be qualified as ACI Concrete Field Testing Technician, Grade 1, according to ACI CP-1 or an equivalent certification program.
2. Personnel performing laboratory tests shall be ACI-certified Concrete Strength Testing Technician and Concrete Laboratory Testing Technician - Grade I. Testing Agency laboratory supervisor shall be an ACI-certified Concrete Laboratory Testing Technician - Grade II.

D. Source Limitations: Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant, obtain aggregate from single source, and obtain admixtures from single source from single manufacturer.

E. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:

1. ACI 301, "Specifications for Structural Concrete," [**Sections 1 through 5.**]
2. ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."

F. Concrete Testing Service: Engage a qualified independent testing agency to perform material evaluation tests and to design concrete mixtures.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Steel Reinforcement: Deliver, store, and handle steel reinforcement to prevent bending and damage.

PART 2 - PRODUCTS

2.1 FORM-FACING MATERIALS

A. Smooth-Formed Finished Concrete: Form-facing panels that will provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.

1. Plywood, metal, or other approved panel materials.

2. Exterior-grade plywood panels, suitable for concrete forms, complying with DOC PS 1, and as follows:
 - a. High-density overlay, Class 1 or better.
 - b. Medium-density overlay, Class 1 or better; mill-release agent treated and edge sealed.
 - c. Structural 1, B-B or better; mill oiled and edge sealed.
 - d. B-B (Concrete Form), Class 1 or better; mill oiled and edge sealed.
- B. Rough-Formed Finished Concrete: Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two edges and one side for tight fit.
- C. Forms for Cylindrical Columns, Pedestals, and Supports: Metal, glass-fiber-reinforced plastic, paper, or fiber tubes that will produce surfaces with gradual or abrupt irregularities not exceeding specified formwork surface class. Provide units with sufficient wall thickness to resist plastic concrete loads without detrimental deformation.
- D. Void Forms: Biodegradable paper surface, treated for moisture resistance, structurally sufficient to support weight of plastic concrete and other superimposed loads.
- E. Chamfer Strips: Wood, metal, PVC, or rubber strips, **3/4 by 3/4 inch (19 by 19 mm)**, minimum.
- F. Rustication Strips: Wood, metal, PVC, or rubber strips, kerfed for ease of form removal.
- G. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and will not impair subsequent treatments of concrete surfaces.
 1. Formulate form-release agent with rust inhibitor for steel form-facing materials.
- H. Form Ties: Factory-fabricated, removable or snap-off metal or glass-fiber-reinforced plastic form ties designed to resist lateral pressure of fresh concrete on forms and to prevent spalling of concrete on removal.
 1. Furnish units that will leave no corrodible metal closer than **1 inch (25 mm)** to the plane of exposed concrete surface.
 2. Furnish ties that, when removed, will leave holes no larger than **1 inch (25 mm)** in diameter in concrete surface.

2.2 STEEL REINFORCEMENT

- A. Reinforcing Bars: ASTM A 615/A 615M, **Grade 60 (Grade 420)**, deformed.
- B. Plain-Steel Wire: ASTM A 82, **[as specified]**.
- C. Deformed-Steel Wire: ASTM A 496.
- D. Plain-Steel Welded Wire Reinforcement: ASTM A 185, plain, fabricated from as-drawn steel wire into flat sheets.

2.3 REINFORCEMENT ACCESSORIES

- A. Joint Dowel Bars: ASTM A 615/A 615M, **Grade 60 (Grade 420)**, plain-steel bars, cut true to length with ends square and free of burrs.

- B. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice," of greater compressive strength than concrete and as follows:
1. For concrete surfaces exposed to view where legs of wire bar supports contact forms, use CRSI Class 1 plastic-protected steel wire or CRSI Class 2 stainless-steel bar supports.

2.4 CONCRETE MATERIALS

- A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:
1. Portland Cement: ASTM C 150, [Type I], [gray].
- B. Normal-Weight Aggregates: ASTM C 33, [Class 3S] coarse aggregate or better, graded. Provide aggregates from a single source [**with documented service record data of at least 10 years' satisfactory service in similar applications and service conditions using similar aggregates and cementitious materials**].
1. Maximum Coarse-Aggregate Size: [1 inch (19 mm)] nominal.
 2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- C. Water: ASTM C 94/C 94M [**and potable**].

2.5 ADMIXTURES

- A. Air-Entraining Admixture: ASTM C 260.
- B. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
1. Water-Reducing Admixture: ASTM C 494/C 494M, Type A.
 2. Retarding Admixture: ASTM C 494/C 494M, Type B.
 3. Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type D.
 4. High-Range, Water-Reducing Admixture: ASTM C 494/C 494M, Type F.
 5. High-Range, Water-Reducing and Retarding Admixture: ASTM C 494/C 494M, Type G.
 6. Plasticizing and Retarding Admixture: ASTM C 1017/C 1017M, Type II.
- C. Non-Set-Accelerating Corrosion-Inhibiting Admixture: Commercially formulated, non-set-accelerating, anodic inhibitor or mixed cathodic and anodic inhibitor; capable of forming a protective barrier and minimizing chloride reactions with steel reinforcement in concrete.
1. Products: Subject to compliance with requirements, [**available products that may be incorporated into the Work include, but are not limited to, the following**]:
 - a. BASF Construction Chemicals - Building Systems; Rheocrete 222+.
 - b. Cortec Corporation; MCI- [2000] [2005NS].
 - c. Grace Construction Products, W. R. Grace & Co.; DCI-S.
 - d. Sika Corporation; FerroGard 901.

2.6 FIBER REINFORCEMENT

- A. Synthetic Micro-Fiber: [**Fibrillated**] polypropylene micro-fibers engineered and designed for use in concrete, complying with ASTM C 1116/C 1116M, Type III, [**1/2 to 1-1/2 inches (13 to 38 mm)**] long.
1. Products: Subject to compliance with requirements, [**available products that may be incorporated into the Work include, but are not limited to, the following**]:
 - a. Fibrillated Micro-Fibers:
 - 1) Axim Italcementi Group, Inc.; Fibrasol F.
 - 2) Euclid Chemical Company (The), an RPM company; Fiberstrand F.
 - 3) FORTA Corporation; FORTA [**Econo-Net**] [**Ultra-Net**].
 - 4) Grace Construction Products, W. R. Grace & Co.; Grace Fibers.
 - 5) Nycon, Inc.; ProConF.
 - 6) Propex Concrete Systems Corp.; Fibermesh 300.
 - 7) Sika Corporation; Sika Fiber PPF.

2.7 VAPOR RETARDERS

- A. Sheet Vapor Retarder: ASTM E 1745, Class A; 15 mil thickness minimum. Include manufacturer's recommended adhesive or pressure-sensitive tape.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Flatiron Films; Iron Barr 15mil.
 - b. Stego Industries, LLC; Stego Wrap 15 mil Class A.
 - c. Ardex Inc.: Greenblock [15 mil].
 - d. Raven Industries Inc.; Vapor Block [**15**].
 - e. Meadows, W. R., Inc.; Perminator [**15 mil**].

2.8 LIQUID FLOOR TREATMENTS

- A. Penetrating Liquid Floor Treatment: Clear, chemically reactive, [**solvent-based**] solution of inorganic silicate or silicate materials and proprietary components; that penetrates, hardens, and densifies concrete surfaces.
1. Products: Subject to compliance with requirements, [**provide the following**]:
 - a. Uni Cure and Seal #1315; Unitex Chemicals.
 2. Apply according to manufacturers written instructions at all floor locations noted on Drawings as “sealed concrete” (SCONC). Verify exact locations for use with Architect prior to placement of concrete slabs.
 3. Ensure compatibility of liquid floor treatments with topically-applied liquid floor sealers.

2.9 LIQUID FLOOR SEALERS

- A. Liquid Floor Sealer: Clear, non-yellowing, acrylic-emulsion membrane-forming curing and sealing compound that seals and dustproofs concrete surfaces.
1. Product: Based on [**Hydro Seal 18**] [**Solvent Seal 1315**] by Unitex Chemicals.
 - a. Apply [**two**] coats of concrete floor sealer at all floor locations noted on the Drawings as “sealed concrete” (SCONC). Apply concrete sealer over floor slabs treated with penetrating floor hardeners according to manufacturers written instructions.
 - b. Apply second coat of floor sealer immediately prior to Substantial Completion.
 - c. Verify exact locations for use with Architect prior to placement of concrete slabs.

2.10 CURING MATERIALS

- A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.
1. Use of membrane-forming curing compounds or membrane-forming curing-and-sealing compounds shall be prohibited at all interior concrete floor slabs indicated to receive floor coverings.
 2. Products: Subject to compliance with requirements, [**available products that may be incorporated into the Work include, but are not limited to, the following**]:
 - a. Axim Italcementi Group, Inc.; CATEXOL CimFilm.
 - b. BASF Construction Chemicals - Building Systems; Confilm.
 - c. ChemMasters; SprayFilm.
 - d. Conspec by Dayton Superior; Aquafilm.
 - e. Dayton Superior Corporation; Sure Film (J-74).
 - f. Edoco by Dayton Superior; BurkeFilm.
 - g. Euclid Chemical Company (The), an RPM company; Eucobar.
 - h. Kaufman Products, Inc.; Vapor-Aid.
 - i. Lambert Corporation; LAMBCO Skin.
 - j. L&M Construction Chemicals, Inc.; E-CON.
 - k. Meadows, W. R., Inc.; EVAPRE.
 - l. Metalcrete Industries; Waterhold.
 - m. Nox-Crete Products Group; MONOFILM.
 - n. Sika Corporation; SikaFilm.
 - o. SpecChem, LLC; Spec Film.
 - p. Symons by Dayton Superior; Finishing Aid.
 - q. TK Products, Division of Sierra Corporation; TK-2120 TRI-FILM.
 - r. Unitex; PRO-FILM.
 - s. Vexcon Chemicals, Inc.; Certi-Vex Envio Set.
- B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately **9 oz./sq. yd. (305 g/sq. m)** when dry.
- C. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
- D. Water: Potable.
- E. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.

1. Use of membrane-forming curing compounds or membrane-forming curing-and-sealing compounds shall be prohibited at all interior concrete floor slabs indicated to receive floor coverings.
2. Products: Subject to compliance with requirements, **[available products that may be incorporated into the Work include, but are not limited to, the following]**:
 - a. Anti-Hydro International, Inc.; AH Curing Compound #2 DR WB.
 - b. BASF Construction Chemicals - Building Systems; Kure 200.
 - c. ChemMasters; Safe-Cure Clear.
 - d. Conspec by Dayton Superior; W.B. Resin Cure.
 - e. Dayton Superior Corporation; Day-Chem Rez Cure (J-11-W).
 - f. Edoco by Dayton Superior; Res X Cure WB.
 - g. Euclid Chemical Company (The), an RPM company; Kurez W VOX; TAMMSCURE WB 30C.
 - h. Kaufman Products, Inc.; Thinfilm 420.
 - i. Lambert Corporation; AQUA KURE - CLEAR.
 - j. L&M Construction Chemicals, Inc.; L&M Cure R.
 - k. Meadows, W. R., Inc.; 1100-CLEAR.
 - l. Nox-Crete Products Group; Resin Cure E.
 - m. Right Pointe; Clear Water Resin.
 - n. SpecChem, LLC; Spec Rez Clear.
 - o. Symons by Dayton Superior; Resi-Chem Clear.
 - p. TK Products, Division of Sierra Corporation; TK-2519 DC WB.
 - q. Vexcon Chemicals, Inc.; Certi-Vex Enviocure 100.

2.11 RELATED MATERIALS

- A. Expansion- and Isolation-Joint-Filler Strips: **[ASTM D 1751, asphalt-saturated cellulosic fiber] [or] [ASTM D 1752, cork or self-expanding cork]**.
- B. Bonding Agent: ASTM C 1059/C 1059M, Type II, non-redispersible, acrylic emulsion or styrene butadiene.
- C. Epoxy Bonding Adhesive: ASTM C 881, two-component epoxy resin, capable of humid curing and bonding to damp surfaces, of class suitable for application temperature and of grade to suit requirements, and as follows:
 1. **[Types I and II, non-load bearing] [Types IV and V, load bearing]**, for bonding hardened or freshly mixed concrete to hardened concrete.
- D. Reglets: Fabricate reglets of not less than **0.022-inch- (0.55-mm-)** thick, galvanized-steel sheet. Temporarily fill or cover face opening of reglet to prevent intrusion of concrete or debris.
- E. Dovetail Anchor Slots: Hot-dip galvanized-steel sheet, not less than **0.034 inch (0.85 mm)** thick, with bent tab anchors. Temporarily fill or cover face opening of slots to prevent intrusion of concrete or debris.

2.12 REPAIR MATERIALS

- A. Repair Underlayment: Cement-based, polymer-modified, self-leveling product that can be applied in thicknesses from **1/8 inch (3.2 mm)** and that can be feathered at edges to match adjacent floor elevations.

1. Cement Binder: ASTM C 150, portland cement or hydraulic or blended hydraulic cement as defined in ASTM C 219.
 2. Primer: Product of underlayment manufacturer recommended for substrate, conditions, and application.
 3. Aggregate: Well-graded, washed gravel, 1/8 to 1/4 inch (3.2 to 6 mm) or coarse sand as recommended by underlayment manufacturer.
 4. Compressive Strength: Not less than [4100 psi (29 MPa)] at 28 days when tested according to ASTM C 109/C 109M.
- B. Repair Overlayment: Cement-based, polymer-modified, self-leveling product that can be applied in thicknesses from 1/4 inch (6.4 mm) and that can be filled in over a scarified surface to match adjacent floor elevations.
1. Cement Binder: ASTM C 150, portland cement or hydraulic or blended hydraulic cement as defined in ASTM C 219.
 2. Primer: Product of topping manufacturer recommended for substrate, conditions, and application.
 3. Aggregate: Well-graded, washed gravel, 1/8 to 1/4 inch (3.2 to 6 mm) or coarse sand as recommended by topping manufacturer.
 4. Compressive Strength: Not less than [5000 psi (34.5 MPa)] at 28 days when tested according to ASTM C 109/C 109M.

2.13 CONCRETE MIXTURES, GENERAL

- A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.
1. Use a qualified independent testing agency for preparing and reporting proposed mixture designs based on laboratory trial mixtures.
- B. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
1. Fly Ash: 20 percent.
 2. Combined Fly Ash and Pozzolan: 20 percent.
- C. Limit water-soluble, chloride-ion content in hardened concrete to [0.06] percent by weight of cement.
- D. Admixtures: Use admixtures according to manufacturer's written instructions.
1. Use [water-reducing] [high-range water-reducing] [or] [plasticizing] admixture in concrete, as required, for placement and workability.
 2. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
 3. Use water-reducing admixture in pumped concrete, concrete for heavy-use industrial slabs and parking structure slabs, concrete required to be watertight, and concrete with a water-cementitious materials ratio below 0.50.
 4. Use corrosion-inhibiting admixture in concrete mixtures where indicated.

2.14 CONCRETE MIXTURES FOR BUILDING ELEMENTS

- A. Footings and Foundation Walls: Proportion normal-weight concrete mixture as follows:
1. Minimum Compressive Strength: [3000 psi (20.7 MPa)] at 28 days.

2. Maximum Water-Cementitious Materials Ratio: 0.50.
3. Slump Limit: **[4 inches (100 mm) for concrete with verified slump of 2 to 4 inches (50 to 100 mm) before adding high-range water-reducing admixture or plasticizing admixture]**.
4. Air Content: 5-1/2 percent, plus or minus 1.5 percent at point of delivery for 3/4-inch nominal maximum aggregate size.

B. Concrete Piers/Pedestals: Proportion normal-weight concrete mixture as follows:

1. Minimum Compressive Strength: **3000 psi (34.5 MPa)** at 28 days.
2. Maximum Water-Cementitious Materials Ratio: 0.45.
3. Slump Limit: **4 inches (100 mm)** for concrete with verified slump of **2 to 4 inches (50 to 100 mm)** before adding high-range water-reducing admixture or plasticizing admixture, plus or minus **1 inch (25 mm)**.
4. Air Content: 5.5 percent, plus or minus 1.5 percent at point of delivery for **1-1/2-inch (38-mm)** nominal maximum aggregate size.

C. Slabs-on-Grade: Proportion normal-weight concrete mixture as follows:

1. Minimum Compressive Strength: **[4000 psi (27.6 MPa)]** at 28 days.
2. Slump Limit: **[5 inches (125 mm)]**, plus or minus 1 inch.
3. Air Content: Do not allow air content of troweled finished slabs to exceed 3 percent.
 - a. At exterior slabs only provide 6 percent, plus or minus 1.5 percent at point of delivery for 3/4-inch nominal maximum aggregate size.
4. Synthetic Fiber: Uniformly disperse in concrete mixture at manufacturer's recommended rate, but not less than 1.0 lb/cu. yd.

D. Exterior Concrete, including exterior slabs-on-grade, sidewalks and equipment pads: Proportion normal-weight concrete mixtures as follows:

1. Compressive Strength (28 Days): **[4000 psi (27.6 MPa)]**.
2. Maximum Water-Cementitious Materials Ratio at Point of Placement: **[0.45]**.
3. Slump Limit: **[5 inches (125 mm)]**, plus or minus **1 inch (25 mm)**.
4. Air Content: **[6]** percent plus or minus 1.5 percent for **3/4-inch (19-mm)** nominal maximum aggregate size.
5. Synthetic Micro-Fiber: Uniformly disperse in concrete mixture at manufacturer's recommended rate, but not less than **1.5 lb/cu. yd. (0.90 kg/cu. m)**.

2.15 FABRICATING REINFORCEMENT

- A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."

2.16 CONCRETE MIXING

- A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94/C 94M **[and ASTM C 1116/C 1116M]**, and furnish batch ticket information.

1. When air temperature is between **85 and 90 deg F (30 and 32 deg C)**, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above **90 deg F (32 deg C)**, reduce mixing and delivery time to 60 minutes.

PART 3 - EXECUTION

3.1 FORMWORK

- A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
- B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
- C. Limit concrete surface irregularities, designated by ACI 347 as abrupt or gradual, as follows:
 - 1. [Class A, 1/8 inch (3.2 mm)] for smooth-formed finished surfaces.
 - 2. [Class B, 1/4 inch (6 mm)] for rough-formed finished surfaces.
- D. Construct forms tight enough to prevent loss of concrete mortar.
- E. Fabricate forms for easy removal without hammering or prying against concrete surfaces. Provide crush or wrecking plates where stripping may damage cast concrete surfaces. Provide top forms for inclined surfaces steeper than 1.5 horizontal to 1 vertical.
 - 1. Install keyways, reglets, recesses, and the like, for easy removal.
 - 2. Do not use rust-stained steel form-facing material.
- F. Set edge forms, bulkheads, and intermediate screed strips for slabs to achieve required elevations and slopes in finished concrete surfaces. Provide and secure units to support screed strips; use strike-off templates or compacting-type screeds.
- G. Provide temporary openings for cleanouts and inspection ports where interior area of formwork is inaccessible. Close openings with panels tightly fitted to forms and securely braced to prevent loss of concrete mortar. Locate temporary openings in forms at inconspicuous locations.
- H. [Do not chamfer] exterior corners and edges of permanently exposed concrete.
- I. Form openings, chases, offsets, sinkages, keyways, reglets, blocking, screeds, and bulkheads required in the Work. Determine sizes and locations from trades providing such items.
- J. Clean forms and adjacent surfaces to receive concrete. Remove chips, wood, sawdust, dirt, and other debris just before placing concrete.
- K. Retighten forms and bracing before placing concrete, as required, to prevent mortar leaks and maintain proper alignment.
- L. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement.

3.2 EMBEDDED ITEMS

- A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

1. Install anchor rods, accurately located, to elevations required and complying with tolerances in Section 7.5 of AISC's "Code of Standard Practice for Steel Buildings and Bridges."
2. Install reglets to receive waterproofing and to receive through-wall flashings in outer face of concrete frame at exterior walls, where flashing is shown at lintels, shelf angles, and other conditions.
3. Install dovetail anchor slots in concrete structures as indicated.

3.3 REMOVING AND REUSING FORMS

- A. General: Formwork for sides of beams, walls, columns, and similar parts of the Work that does not support weight of concrete may be removed after cumulatively curing at not less than **50 deg F (10 deg C)** for **[24]** hours after placing concrete. Concrete has to be hard enough to not be damaged by form-removal operations and curing and protection operations need to be maintained.
1. Leave formwork for beam soffits, joists, slabs, and other structural elements that supports weight of concrete in place until concrete has achieved its 28-day design compressive strength.
 2. Remove forms only if shores have been arranged to permit removal of forms without loosening or disturbing shores.
- B. Clean and repair surfaces of forms to be reused in the Work. Split, frayed, delaminated, or otherwise damaged form-facing material will not be acceptable for exposed surfaces. Apply new form-release agent.
- C. When forms are reused, clean surfaces, remove fins and laitance, and tighten to close joints. Align and secure joints to avoid offsets. Do not use patched forms for exposed concrete surfaces unless approved by Architect.

3.4 SHORES AND RESHORES

- A. Comply with **ACI 318 (ACI 318M)** and ACI 301 for design, installation, and removal of shoring and reshoring.
1. Do not remove shoring or reshoring until measurement of slab tolerances is complete.
- B. Plan sequence of removal of shores and reshore to avoid damage to concrete. Locate and provide adequate reshoring to support construction without excessive stress or deflection.

3.5 VAPOR RETARDERS

- A. Sheet Vapor Retarders: Place, protect, and repair sheet vapor retarder according to ASTM E 1643 and manufacturer's written instructions.
1. Lap joints **6 inches (150 mm)** and seal with manufacturer's recommended tape.

3.6 STEEL REINFORCEMENT

- A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.
1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

- B. Clean reinforcement of loose rust and mill scale, earth, ice, and other foreign materials that would reduce bond to concrete.
- C. Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing reinforcing bars.
- D. Set wire ties with ends directed into concrete, not toward exposed concrete surfaces.

3.7 JOINTS

- A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
- B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
 - 1. Place joints perpendicular to main reinforcement. Continue reinforcement across construction joints unless otherwise indicated. Do not continue reinforcement through sides of strip placements of floors and slabs.
 - 2. Form keyed joints as indicated. Embed keys at least **1-1/2 inches (38 mm)** into concrete.
 - 3. Locate joints for beams, slabs, joists, and girders in the middle third of spans. Offset joints in girders a minimum distance of twice the beam width from a beam-girder intersection.
 - 4. Locate horizontal joints in walls and columns at underside of floors, slabs, beams, and girders and at the top of footings or floor slabs.
 - 5. Space vertical joints in walls [**as indicated**]. Locate joints beside piers integral with walls, near corners, and in concealed locations where possible.
 - 6. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
- C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least [**one-fourth**] of concrete thickness as follows:
 - 1. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint to a radius of **1/8 inch (3.2 mm)**. Repeat grooving of contraction joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.
 - 2. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut **1/8-inch- (3.2-mm-)** wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
- D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.
 - 1. Extend joint-filler strips full width and depth of joint, terminating flush with finished concrete surface unless otherwise indicated.
 - 2. Terminate full-width joint-filler strips not less than **1/2 inch (13 mm)** or more than **1 inch (25 mm)** below finished concrete surface where joint sealants, specified in Section 079200 "Joint Sealants," are indicated.
 - 3. Install joint-filler strips in lengths as long as practicable. Where more than one length is required, lace or clip sections together.

- E. Doweled Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or asphalt coat one-half of dowel length to prevent concrete bonding to one side of joint.

3.8 CONCRETE PLACEMENT

- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
- B. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Architect.
- C. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301.
 - 1. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
- D. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
 - 1. Deposit concrete in horizontal layers of depth to not exceed formwork design pressures and in a manner to avoid inclined construction joints.
 - 2. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
 - 3. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least **6 inches (150 mm)** into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
- E. Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
 - 1. Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
 - 2. Maintain reinforcement in position on chairs during concrete placement.
 - 3. Screed slab surfaces with a straightedge and strike off to correct elevations.
 - 4. Slope surfaces uniformly to drains where required.
 - 5. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleedwater appears on the surface. Do not further disturb slab surfaces before starting finishing operations.
- F. Cold-Weather Placement: Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
 - 1. When average high and low temperature is expected to fall below **40 deg F (4.4 deg C)** for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.
 - 2. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.
 - 3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.

- G. Hot-Weather Placement: Comply with ACI 301 and as follows:
1. Maintain concrete temperature below **90 deg F (32 deg C)** at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
 2. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

3.9 FINISHING FORMED SURFACES

- A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
1. Apply to concrete surfaces [**not exposed to public view**].
- B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
1. Apply to concrete surfaces [**exposed to public view,**] [**to be covered with a coating or covering material applied directly to concrete**].
- C. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

3.10 FINISHING FLOORS AND SLABS

- A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- B. Scratch Finish: While still plastic, texture concrete surface that has been screeded and bull-floated or darbied. Use stiff brushes, brooms, or rakes to produce a profile amplitude of **1/4 inch (6 mm)** in one direction.
1. Apply scratch finish to surfaces [**to receive mortar setting beds for bonded cementitious floor finishes**].
- C. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraightening until surface is left with a uniform, smooth, granular texture.
1. Apply float finish to surfaces [**to receive trowel finish**].
- D. Trowel Finish: After applying float finish, apply first troweling and consolidate concrete by hand or power-driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.

1. Apply a trowel finish to surfaces [**exposed to view**] [**or**] [**to be covered with resilient flooring, carpet, ceramic or quarry tile set over a cleavage membrane, paint, or another thin-film-finish coating system**].
 2. Finish and measure surface so gap at any point between concrete surface and an unlevelled, freestanding, **10-ft.- (3.05-m-)** long straightedge resting on two high spots and placed anywhere on the surface does not exceed [**1/8 inch (3.2 mm)**].
- E. Trowel and Fine-Broom Finish: Apply a first-trowel finish to surfaces to receive ceramic tile or pavers. While concrete is still plastic, slightly scarify surface with a fine broom.
1. Comply with flatness and levelness tolerances for trowel-finished floor surfaces.
- F. Broom Finish: Apply a broom finish to exterior concrete platforms, sidewalks, curbs, pads, and elsewhere as indicated.
1. Immediately after float finishing, slightly roughen trafficked surface by brooming with fiber-bristle broom perpendicular to main traffic route. Coordinate required final finish with Architect before application.

3.11 MISCELLANEOUS CONCRETE ITEMS

- A. Filling In: Fill in holes and openings left in concrete structures after work of other trades is in place unless otherwise indicated. Mix, place, and cure concrete, as specified, to blend with in-place construction. Provide other miscellaneous concrete filling indicated or required to complete the Work.
- B. Curbs: Provide monolithic finish to interior curbs by stripping forms while concrete is still green and by steel-troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded.
- C. Equipment Bases and Foundations: Provide machine and equipment bases and foundations as shown on Drawings. Set anchor bolts for machines and equipment at correct elevations, complying with diagrams or templates from manufacturer furnishing machines and equipment.
1. Coordinate sizes and locations of concrete bases with actual equipment provided.
 2. Construct concrete bases [**8 inches (200 mm)**] thick unless otherwise indicated; provide not less than **6 inches (150 mm)** of base course material beneath equipment pads unless otherwise indicated.
 3. Minimum Compressive Strength: [**4000 psi (27.6 MPa)**] at 28 days.

3.12 CONCRETE PROTECTING AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
- B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching **0.2 lb/sq. ft. x h (1 kg/sq. m x h)** before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
1. NOTE: Use of membrane-forming curing compounds or membrane-forming curing-and-sealing compounds shall be prohibited at all interior concrete floor slabs indicated to receive floor coverings.

- C. Formed Surfaces: Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of curing period, continue curing for the remainder of the curing period.
- D. Unformed Surfaces: Begin curing immediately after finishing concrete. Cure unformed surfaces, including floors and slabs, concrete floor toppings, and other surfaces.
- E. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
 - 1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:
 - a. Water.
 - b. Continuous water-fog spray.
 - c. Absorptive cover, water saturated, and kept continuously wet. Cover concrete surfaces and edges with 12-inch (300-mm) lap over adjacent absorptive covers.
 - 2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
 - a. Moisture cure or use moisture-retaining covers to cure concrete surfaces indicated to receive floor coverings.
 - b. Moisture cure or use moisture-retaining covers to cure concrete surfaces indicated to receive penetrating liquid floor treatments.
 - 3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.
 - a. Use of membrane-forming curing compounds or membrane-forming curing-and-sealing compounds shall be prohibited at all interior concrete floor slabs indicated to receive floor coverings.
- F. Concrete Protection: Fully protect all concrete floor slabs indicated to remain exposed to view. Cover exposed floors with drop cloths, plywood panels or other coverings to prevent damage from tools, equipment and construction activities. Where necessary, utilize polyethylene sheeting to prevent staining caused by spills, leaks and overspray.

3.13 FLOOR SEALER

- A. Floor Sealers: Seal all concrete floors scheduled to remain exposed to view (SCONC).
- B. The Contractor shall remove oil, dirt, laitance, and other contaminants and complete surface repairs prior to application of floor sealer.
- C. Do not apply sealers to concrete that is less than 28 days' old.
- D. Notify Architect not less than 48 hours prior to the application of final coat of floor sealer. Concrete floors must clean and free of markings, spills, stains and other blemishes before application of final floor sealer. Floor sealer should not be applied without Architect's review and approval of concrete conditions.

3.14 JOINT FILLING

- A. Prepare, clean, and install joint filler according to manufacturer's written instructions.
 - 1. Defer joint filling until concrete has aged at least [**six**] month(s). Do not fill joints until construction traffic has permanently ceased.
- B. Remove dirt, debris, saw cuttings, curing compounds, and sealers from joints; leave contact faces of joint clean and dry.
- C. Unless indicated otherwise, all slab-on-grade [**construction**] joints shall be filled with joint sealant in accordance with the requirements specified in Section 079200.
 - 1. Typical saw-cut control joints in concrete slabs-on-grade [**shall not**] require joint sealant.

3.15 CONCRETE SURFACE REPAIRS

- A. Defective Concrete: Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval.
- B. Patching Mortar: Mix dry-pack patching mortar, consisting of one part portland cement to two and one-half parts fine aggregate passing a **No. 16 (1.18-mm)** sieve, using only enough water for handling and placing.
- C. Repairing Formed Surfaces: Surface defects include color and texture irregularities, cracks, spalls, air bubbles, honeycombs, rock pockets, fins and other projections on the surface, and stains and other discolorations that cannot be removed by cleaning.
 - 1. Immediately after form removal, cut out honeycombs, rock pockets, and voids more than **1/2 inch (13 mm)** in any dimension to solid concrete. Limit cut depth to **3/4 inch (19 mm)**. Make edges of cuts perpendicular to concrete surface. Clean, dampen with water, and brush-coat holes and voids with bonding agent. Fill and compact with patching mortar before bonding agent has dried. Fill form-tie voids with patching mortar or cone plugs secured in place with bonding agent.
 - 2. Repair defects on surfaces exposed to view by blending white portland cement and standard portland cement so that, when dry, patching mortar will match surrounding color. Patch a test area at inconspicuous locations to verify mixture and color match before proceeding with patching. Compact mortar in place and strike off slightly higher than surrounding surface.
 - 3. Repair defects on concealed formed surfaces that affect concrete's durability and structural performance as determined by Architect.
- D. Repairing Unformed Surfaces: Test unformed surfaces, such as floors and slabs, for finish and verify surface tolerances specified for each surface. Correct low and high areas. Test surfaces sloped to drain for trueness of slope and smoothness; use a sloped template.
 - 1. Repair finished surfaces containing defects. Surface defects include spalls, popouts, honeycombs, rock pockets, crazing and cracks in excess of **0.01 inch (0.25 mm)** wide or that penetrate to reinforcement or completely through unreinforced sections regardless of width, and other objectionable conditions.
 - 2. After concrete has cured at least 14 days, correct high areas by grinding.
 - 3. Correct localized low areas during or immediately after completing surface finishing operations by cutting out low areas and replacing with patching mortar. Finish repaired areas to blend into adjacent concrete.
 - 4. Correct other low areas scheduled to receive floor coverings with a repair underlayment. Prepare, mix, and apply repair underlayment and primer according to manufacturer's written instructions to

- produce a smooth, uniform, plane, and level surface. Feather edges to match adjacent floor elevations.
5. Correct other low areas scheduled to remain exposed with a repair topping. Cut out low areas to ensure a minimum repair topping depth of **1/4 inch (6 mm)** to match adjacent floor elevations. Prepare, mix, and apply repair topping and primer according to manufacturer's written instructions to produce a smooth, uniform, plane, and level surface.
 6. Repair defective areas, except random cracks and single holes **1 inch (25 mm)** or less in diameter, by cutting out and replacing with fresh concrete. Remove defective areas with clean, square cuts and expose steel reinforcement with at least a **3/4-inch (19-mm)** clearance all around. Dampen concrete surfaces in contact with patching concrete and apply bonding agent. Mix patching concrete of same materials and mixture as original concrete except without coarse aggregate. Place, compact, and finish to blend with adjacent finished concrete. Cure in same manner as adjacent concrete.
 7. Repair random cracks and single holes **1 inch (25 mm)** or less in diameter with patching mortar. Groove top of cracks and cut out holes to sound concrete and clean off dust, dirt, and loose particles. Dampen cleaned concrete surfaces and apply bonding agent. Place patching mortar before bonding agent has dried. Compact patching mortar and finish to match adjacent concrete. Keep patched area continuously moist for at least 72 hours.
- E. Perform structural repairs of concrete, subject to Architect's approval, using epoxy adhesive and patching mortar.
- F. Repair materials and installation not specified above may be used, subject to Architect's approval.

3.16 FIELD QUALITY CONTROL

- A. Testing and Inspecting: The [Owner] will engage a **[qualified testing and inspecting agency]** to perform field tests and required International Building Code inspections and prepare test reports.
- B. Inspections:
1. Steel reinforcement placement.
 2. Steel reinforcement welding.
 3. Headed bolts and studs.
 4. Verification of use of required design mixture.
 5. Concrete placement, including conveying and depositing.
 6. Curing procedures and maintenance of curing temperature.
 7. Verification of concrete strength before removal of shores and forms from beams and slabs.
- C. Concrete Tests: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements:
1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding **5 cu. yd. (4 cu. m)**, plus one set for each additional **50 cu. yd. (38 cu. m)**.
 - a. When frequency of testing will provide fewer than five compressive-strength tests for each concrete mixture, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
 2. Slump: ASTM C 143/C 143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change.
 3. Air Content: ASTM C 231, pressure method, for normal-weight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.

4. Concrete Temperature: ASTM C 1064/C 1064M; one test hourly when air temperature is 40 deg F (4.4 deg C) and below and when 80 deg F (27 deg C) and above, and one test for each composite sample.
5. Compression Test Specimens: ASTM C 31/C 31M.
 - a. Cast and laboratory cure two sets of two standard cylinder specimens for each composite sample.
6. Compressive-Strength Tests: ASTM C 39/C 39M; test one set of two laboratory-cured specimens at 7 days and one set of two specimens at 28 days.
 - a. Test one set of two field-cured specimens at 7 days and one set of two specimens at 28 days.
 - b. A compressive-strength test shall be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated.
7. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, Contractor shall evaluate operations and provide corrective procedures for protecting and curing in-place concrete.
8. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi (3.4 MPa).
9. Test results shall be reported in writing to Architect, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.
10. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.
11. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42/C 42M or by other methods as directed by Architect.
12. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
13. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.

3.17 PROTECTION OF LIQUID FLOOR TREATMENTS

- A. Protect liquid floor treatments from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by liquid floor treatments installer.

END OF SECTION 033000

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Wood blocking, cants, and nailers.
 - 2. Plywood backing panels.

1.3 DEFINITIONS

- A. Lumber grading agencies, and the abbreviations used to reference them, include the following:
 - 1. NLGA: National Lumber Grades Authority.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Stack lumber flat with spacers beneath and between each bundle to provide air circulation. Protect lumber from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
 - 1. Factory mark each piece of lumber with grade stamp of grading agency.
 - 2. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
 - 3. Provide dressed lumber, S4S, unless otherwise indicated.
- B. Maximum Moisture Content of Lumber: 19 percent unless otherwise indicated.

2.2 FIRE-RETARDANT-TREATED MATERIALS

- A. General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article, that are acceptable to authorities having jurisdiction, and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.
- B. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet beyond the centerline of the burners at any time during the test.
 - 1. Use treatment that does not promote corrosion of metal fasteners.
 - 2. Exterior Type: Treated materials shall comply with requirements specified above for fire-retardant-treated lumber and plywood by pressure process after being subjected to accelerated weathering according to ASTM D 2898. Use for exterior locations and where indicated.
 - 3. Interior Type A: Treated materials shall have a moisture content of 28 percent or less when tested according to ASTM D 3201 at 92 percent relative humidity. Use where exterior type is not indicated.
 - 4. Design Value Adjustment Factors: Treated lumber shall be tested according ASTM D 5664 and design value adjustment factors shall be calculated according to ASTM D 6841.
- C. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent.
- D. Identify fire-retardant-treated wood with appropriate classification marking of qualified testing agency.

E. Application: Treat items indicated on Drawings, and the following:

1. Concealed blocking.
2. Plywood backing panels.

2.3 MISCELLANEOUS LUMBER

A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:

1. Blocking.
2. Nailers.

B. For items of dimension lumber size, provide Construction or No. 2 grade lumber of any species.

C. For concealed boards, provide lumber with 19 percent maximum moisture content and any of the following species and grades:

1. Northern species; No. 2 Common grade; NLGA.

D. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.

E. For blocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and other defects that will interfere with attachment of other work.

2.4 PLYWOOD BACKING PANELS

A. Equipment Backing Panels: DOC PS 1, Exposure 1, C-D Plugged, fire-retardant treated, in thickness indicated or, if not indicated, not less than 3/4-inch nominal thickness.

2.5 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.

B. Nails, Brads, and Staples: ASTM F 1667.

C. Power-Driven Fasteners: NES NER-272.

D. Wood Screws: ASME B18.6.1.

E. Lag Bolts: ASME B18.2.1 .

F. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.

B. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated.

END OF SECTION 061000

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Framing with dimension lumber.
2. Wood blocking and nailers.
3. Wood grounds.
4. Wood sleepers.
5. Plywood backing panels.

- B. Related Requirements:

1. Division 06 Section "Sheathing."
2. Division 06 finish carpentry Sections for nonstructural carpentry items exposed to view and not specified in another Section.

1.3 DEFINITIONS

- A. Dimension Lumber: Lumber of 2 inches nominal (38 mm actual) or greater but less than 5 inches nominal (114 mm actual) in least dimension.

- B. Lumber grading agencies, and the abbreviations used to reference them, include the following:

1. NeLMA: Northeastern Lumber Manufacturers' Association.
2. NHLA: National Hardwood Lumber Association.
3. NLGA: National Lumber Grades Authority.
4. SPIB: The Southern Pine Inspection Bureau.
5. WCLIB: West Coast Lumber Inspection Bureau.
6. WWPA: Western Wood Products Association.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Include physical properties of treated materials based on testing by a qualified independent testing agency.
3. For fire-retardant treatments, include physical properties of treated lumber both before and after exposure to elevated temperatures, based on testing by a qualified independent testing agency according to ASTM D 5664.
4. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.
5. Include copies of warranties from chemical treatment manufacturers for each type of treatment.

1.5 INFORMATIONAL SUBMITTALS

- A. Evaluation Reports: For the following, from ICC-ES:

1. Preservative-treated wood.
2. Fire-retardant-treated wood.
3. Power-driven fasteners.

4. Powder-actuated fasteners.
5. Expansion anchors.
6. Metal framing anchors.

1.6 QUALITY ASSURANCE

- A. Testing Agency Qualifications: For testing agency providing classification marking for fire-retardant treated material, an inspection agency acceptable to authorities having jurisdiction that periodically performs inspections to verify that the material bearing the classification marking is representative of the material tested.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Stack lumber flat with spacers beneath and between each bundle to provide air circulation. Protect lumber from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
 1. Factory mark each piece of lumber with grade stamp of grading agency.
 2. For exposed lumber indicated to receive a stained or natural finish, mark grade stamp on end or back of each piece or omit grade stamp and provide certificates of grade compliance issued by grading agency.
 3. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
 4. Provide dressed lumber, S4S, unless otherwise indicated.
- B. Maximum Moisture Content of Lumber: 15 percent unless otherwise indicated.

2.2 WOOD-PRESERVATIVE-TREATED MATERIALS

- A. Preservative Treatment by Pressure Process: AWWA U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.
 1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium. Do not use inorganic boron (SBX) for sill plates.
- B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.
- C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
- D. Application: Treat items indicated on Drawings, and the following:
 1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
 2. Wood sills, sleepers, blocking, and similar concealed members in contact with masonry or concrete.

2.3 FIRE-RETARDANT-TREATED MATERIALS

- A. General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article, that are acceptable to authorities having jurisdiction, and with fire-

test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.

- B. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.
 - 1. Use treatment that does not promote corrosion of metal fasteners.
 - 2. Exterior Type: Treated materials shall comply with requirements specified above for fire-retardant-treated lumber and plywood by pressure process after being subjected to accelerated weathering according to ASTM D 2898. Use for exterior locations and where indicated.
- C. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Kiln-dry plywood after treatment to a maximum moisture content of 15 percent.
- D. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency acceptable to authorities having jurisdiction.
- E. Application: Treat items indicated on Drawings, and the following:
 - 1. Concealed blocking.
 - 2. Plywood backing panels.

2.4 DIMENSION LUMBER FRAMING

- A. Non-Load-Bearing Interior Partitions: Construction or No. 2 grade and any of the following species:
 - 1. Hem-fir (north); NLGA.
 - 2. Mixed southern pine; SPIB.
 - 3. Northern species; NLGA.
- B. Other Framing: Construction or No. 2 grade and any of the following species:
 - 1. Hem-fir (north); NLGA.
 - 2. Mixed southern pine; SPIB.
 - 3. Spruce-pine-fir (south); NeLMA, WCLIB, or WWPA.

2.5 MISCELLANEOUS LUMBER

- A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
 - 1. Blocking.
 - 2. Nailers.
 - 3. Furring.
 - 4. Grounds.
- B. For items of dimension lumber size, provide Construction or No. 2 grade lumber and any of the following species:
 - 1. Hem-fir (north); NLGA.
 - 2. Mixed southern pine; SPIB.
 - 3. Northern species; NLGA.
 - 4. Eastern softwoods; NeLMA.
- C. For concealed boards, provide lumber with 15 percent maximum moisture content and any of the following species and grades:
 - 1. Mixed southern pine, No. 2 grade; SPIB.
 - 2. Hem-fir or hem-fir (north), Construction or No. 2 Common grade; NLGA, WCLIB, or WWPA.

- D. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.
- E. For blocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and other defects that will interfere with attachment of other work.
- F. For furring strips for installing plywood or hardboard paneling, select boards with no knots capable of producing bent-over nails and damage to paneling.

2.6 PLYWOOD BACKING PANELS

- A. Equipment Backing Panels: DOC PS 1, Exposure 1, C-D Plugged in thickness indicated or, if not indicated, not less than 1/2-inch (13-mm) nominal thickness.

2.7 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

- 1. Where carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.

- B. Nails, Brads, and Staples: ASTM F 1667.

- C. Power-Driven Fasteners: NES NER-272.

- D. Wood Screws: ASME B18.6.1.

- E. Screws for Fastening to Metal Framing: ASTM C 1002, length as recommended by screw manufacturer for material being fastened.

- F. Lag Bolts: ASME B18.2.1 (ASME B18.2.3.8M).

- G. Bolts: Steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers.

- H. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to 6 times the load imposed when installed in unit masonry assemblies and equal to 4 times the load imposed when installed in concrete as determined by testing per ASTM E 488 conducted by a qualified independent testing and inspecting agency.

- 1. Material: Carbon-steel components, zinc plated to comply with ASTM B 633, Class Fe/Zn 5.
- 2. Material: Stainless steel with bolts and nuts complying with ASTM F 593 and ASTM F 594, Alloy Group 1 or 2 (ASTM F 738M and ASTM F 836M, Grade A1 or A4).

2.8 METAL FRAMING ANCHORS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:

- 1. Cleveland Steel Specialty Co.
- 2. Simpson Strong-Tie Co., Inc.
- 3. USP Structural Connectors.

- B. Galvanized-Steel Sheet: Hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 (Z180) coating designation.

- 1. Use for interior locations unless otherwise indicated.

2.9 MISCELLANEOUS MATERIALS

- A. Flexible Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubber or rubberized-asphalt compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.025 inch (0.6 mm).

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.
- B. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.
- C. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.
- D. Install plywood backing panels by fastening to studs; coordinate locations with utilities requiring backing panels. Metal Framing Anchors: Install metal framing anchors to comply with manufacturer's written instructions. Install fasteners through each fastener hole.
- E. Metal Framing Anchors: Install metal framing anchors to comply with manufacturer's written instructions. Install fasteners through each fastener hole.
- F. Do not splice structural members between supports unless otherwise indicated.
- G. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.
 - 1. Provide metal clips for fastening gypsum board or lath at corners and intersections where framing or blocking does not provide a surface for fastening edges of panels. Space clips not more than 16 inches (406 mm) o.c.
- H. Provide fire blocking in furred spaces, stud spaces, and other concealed cavities as indicated and as follows:
 - 1. Fire block furred spaces of walls, at each floor level, at ceiling, and at not more than 96 inches (2438 mm) o.c. with solid wood blocking or noncombustible materials accurately fitted to close furred spaces.
 - 2. Fire block concealed spaces of wood-framed walls and partitions at each floor level, at ceiling line of top story, and at not more than 96 inches (2438 mm) o.c. Where fire blocking is not inherent in framing system used, provide closely fitted solid wood blocks of same width as framing members and 2-inch nominal (38-mm actual) thickness.
 - 3. Fire block concealed spaces between floor sleepers with same material as sleepers to limit concealed spaces to not more than 100 sq. ft. (9.3 sq. m) and to solidly fill space below partitions.
 - 4. Fire block concealed spaces behind combustible cornices and exterior trim at not more than 20 feet (6 m) o.c.
- I. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
- J. Comply with AWWA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
 - 1. Use inorganic boron for items that are continuously protected from liquid water.

2. Use copper naphthenate for items not continuously protected from liquid water.
- K. Securely attach carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
1. NES NER-272 for power-driven fasteners.
 2. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.
 3. Table R602.3(1), "Fastener Schedule for Structural Members," and Table R602.3(2), "Alternate Attachments," in ICC's International Residential Code for One- and Two-Family Dwellings.
- L. Use steel common nails unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood. Drive nails snug but do not countersink nail heads unless otherwise indicated.

3.2 WOOD GROUND, BLOCKING, AND NAILER INSTALLATION

- A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.
- B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

3.3 PROTECTION

- A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.
- B. Protect miscellaneous rough carpentry from weather. If, despite protection, miscellaneous rough carpentry becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION 061053

SECTION 061600 - SHEATHING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Exterior wall sheathing.
 - 2. Sheathing joint and penetration treatment.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Stack panels flat with spacers beneath and between each bundle to provide air circulation. Protect sheathing from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For assemblies with fire-resistance ratings, provide materials and construction identical to those of assemblies tested for fire resistance per ASTM E 119 by a testing and inspecting agency acceptable to authorities having jurisdiction.
 - 1. Fire-Resistance Ratings: Indicated by design designations from UL's "Fire Resistance Directory."

2.2 WALL SHEATHING

- A. Glass-Mat Gypsum Wall Sheathing: ASTM C 1177/1177M.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. CertainTeed Corporation; GlasRoc.
 - b. G-P Gypsum Corporation; Dens-Glass Gold.
 - c. National Gypsum Company; Gold Bond e(2)XP.
 - d. United States Gypsum Co.; Securock.
 - 2. Type and Thickness: Type X, 5/8 inch thick.

2.3 FASTENERS

- A. General: Provide fasteners of size and type as indicated on the Drawings.
 - 1. For roof and wall sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
- B. Nails, Brads, and Staples: ASTM F 1667.
- C. Power-Driven Fasteners: NES NER-272.
- D. Wood Screws: ASME B18.6.1.
- E. Roof sheathing clips: Place between all trusses and rafters at non-tongue-and-groove roof sheathing locations.

2.4 SHEATHING JOINT-AND-PENETRATION TREATMENT MATERIALS

- A. Sealant for Glass-Mat Gypsum Sheathing: Silicone emulsion sealant complying with ASTM C 834, compatible with sheathing tape and sheathing and recommended by tape and sheathing manufacturers for use with glass-fiber sheathing tape and for covering exposed fasteners.

1. Sheathing Tape: Self-adhering glass-fiber tape, minimum 2 inches wide, 10 by 10 or 10 by 20 threads/inch, of type recommended by sheathing and tape manufacturers for use with silicone emulsion sealant in sealing joints in glass-mat gypsum sheathing and with a history of successful in-service use.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.
- B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.
- C. Securely attach to substrate by fastening as indicated on the Drawings.
- D. Use common wire nails unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections. Install fasteners without splitting wood.
- E. Coordinate wall and roof sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.
- F. Do not bridge building expansion joints; cut and space edges of panels to match spacing of structural support elements.
- G. Coordinate sheathing installation with installation of materials installed over sheathing so sheathing is not exposed to precipitation or left exposed at end of the workday when rain is forecast.

3.2 EXTERIOR WALL GYPSUM SHEATHING INSTALLATION

- A. Comply with GA-253 and with manufacturer's written instructions.
 1. Fasten gypsum sheathing to wood framing with nails as indicated on Drawings.
 2. Fasten gypsum sheathing to cold-formed metal framing with screws as indicated on Drawings.
 3. Install boards with a 3/8-inch gap where non-load-bearing construction abuts structural elements.
- B. Apply fasteners so heads bear tightly against face of sheathing, but do not cut into facing.
- C. Vertical Installation: Install board vertical edges centered over studs. Abut ends and edges of each board with those of adjacent boards over solid blocking. Attach boards at perimeter and within field of board to each stud or blocking.
 1. Space fasteners as indicated on drawings and set back a minimum of 3/8 inch from edges and ends of boards.
- D. Seal sheathing joints according to sheathing manufacturer's written instructions.
 1. Apply glass-fiber sheathing tape to glass-mat gypsum sheathing joints and apply and trowel silicone emulsion sealant to embed entire face of tape in sealant. Apply sealant to exposed fasteners with a trowel so fasteners are completely covered. Seal other penetrations and openings.

END OF SECTION 061600

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Modified bituminous sheet waterproofing.

- B. Related Sections:

- 1. Division 07 Section "Thermal Insulation" for foam-plastic board foundation insulation.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

- 1. Include construction details, material descriptions, and tested physical and performance properties of waterproofing.
- 2. Include manufacturer's written instructions for evaluating, preparing, and treating substrate.

- B. Samples: For each exposed product and for each color and texture specified, including the following products:

- 1. **8-by-8-inch** square of waterproofing and flashing sheet.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by waterproofing manufacturer.

1.5 FIELD CONDITIONS

- A. Environmental Limitations: Apply waterproofing within the range of ambient and substrate temperatures recommended by waterproofing manufacturer. Do not apply waterproofing to a damp or wet substrate.

- 1. Do not apply waterproofing in snow, rain, fog, or mist.

- B. Maintain adequate ventilation during preparation and application of waterproofing materials.

1.6 WARRANTY

- A. Manufacturer's Warranty: Manufacturer's standard materials-only warranty in which manufacturer agrees to furnish replacement waterproofing material for waterproofing that does not comply with requirements or that fails to remain watertight within specified warranty period.

- 1. Warranty Period: Five years from date of Substantial Completion.

- B. Installer's Special Warranty: Provide installation warranty signed by Installer, covering Work of this Section, for warranty period of two years.

- 1. Warranty includes removing and reinstalling protection board, drainage panels and insulation.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Source Limitations for Waterproofing System: Obtain waterproofing materials, protection course, and molded-sheet drainage panels from single source from single manufacturer.

2.2 MODIFIED BITUMINOUS SHEET WATERPROOFING

- A. Modified Bituminous Sheet: Minimum **60-mil** nominal thickness, self-adhering sheet consisting of **56 mils** of rubberized asphalt laminated on one side to a **4-mil-** thick, polyethylene-film reinforcement, and

with release liner on adhesive side; formulated for application with primer or surface conditioner that complies with VOC limits of authorities having jurisdiction.

1. Products: Subject to compliance with requirements, provide one of the following:
 - a. American Hydrotech, Inc.; VM75.
 - b. Carlisle Coatings & Waterproofing Inc.; CCW MiraDRI 860/861.
 - c. Grace, W. R., & Co. - Conn.; Bituthene 4000.
 - d. Meadows, W. R., Inc.; SealTight Mel-Rol.
2. Physical Properties:
 - a. Tensile Strength, Membrane: 250 psi minimum; ASTM D 412, Die C, modified.
 - b. Ultimate Elongation: 300 percent minimum; ASTM D 412, Die C, modified.
 - c. Low-Temperature Flexibility: Pass at minus 20 deg F ; ASTM D 1970.
 - d. Crack Cycling: Unaffected after 100 cycles of 1/8-inch movement; ASTM C 836.
 - e. Puncture Resistance: 40 lbf minimum; ASTM E 154.
 - f. Water Absorption: 0.2 percent weight-gain maximum after 48-hour immersion at 70 deg F ; ASTM D 570.
 - g. Water Vapor Permeance: 0.05 perms maximum; ASTM E 96/E 96M, Water Method.
 - h. Hydrostatic-Head Resistance: 200 feet minimum; ASTM D 5385.
3. Sheet Strips: Self-adhering, rubberized-asphalt strips of same material and thickness as sheet waterproofing.

2.3 AUXILIARY MATERIALS

- A. General: Furnish auxiliary materials recommended by waterproofing manufacturer for intended use and compatible with sheet waterproofing.
- B. Primer: Liquid waterborne primer recommended for substrate by sheet-waterproofing material manufacturer.
- C. Surface Conditioner: Liquid, waterborne surface conditioner recommended for substrate by sheet-waterproofing material manufacturer.
- D. Liquid Membrane: Elastomeric, two-component liquid, cold fluid applied, of trowel grade or low viscosity.
- E. Substrate Patching Membrane: Low-viscosity, two-component, modified asphalt coating.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the waterproofing.
 1. Verify that concrete has cured and aged for minimum time period recommended in writing by waterproofing manufacturer.
 2. Verify that substrate is visibly dry and within the moisture limits recommended in writing by manufacturer. Test for capillary moisture by plastic sheet method according to ASTM D 4263.
 3. Verify that compacted subgrade is dry, smooth, sound, and ready to receive waterproofing sheet.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 SURFACE PREPARATION

- A. Clean, prepare, and treat substrates according to manufacturer's written instructions. Provide clean, dust-free, and dry substrates for waterproofing application.
- B. Mask off adjoining surfaces not receiving waterproofing to prevent spillage and overspray affecting other construction.
- C. Remove grease, oil, bitumen, form-release agents, paints, curing compounds, and other penetrating contaminants or film-forming coatings from concrete.

- D. Remove fins, ridges, mortar, and other projections and fill honeycomb, aggregate pockets, holes, and other voids.
- E. Prepare, fill, prime, and treat joints and cracks in substrates. Remove dust and dirt from joints and cracks according to ASTM D 4258.
 - 1. Install sheet strips of width according to manufacturer's written instructions and center over treated construction and contraction joints and cracks exceeding a width of **1/16 inch**.
- F. Corners: Prepare, prime, and treat inside and outside corners according to ASTM D 6135.
 - 1. Install membrane strips centered over vertical inside corners. Install **3/4-inch** fillets of liquid membrane on horizontal inside corners and as follows:
 - a. At footing-to-wall intersections, extend liquid membrane in each direction from corner or install membrane strip centered over corner.
 - b. At plaza-deck-to-wall intersections, extend liquid membrane or sheet strips onto deck waterproofing and to finished height of sheet flashing.
- G. Prepare, treat, and seal vertical and horizontal surfaces at terminations and penetrations through waterproofing and at drains and protrusions according to ASTM D 6135.

3.3 MODIFIED BITUMINOUS SHEET-WATERPROOFING APPLICATION

- A. Install modified bituminous sheets according to waterproofing manufacturer's written instructions and recommendations in ASTM D 6135.
- B. Apply primer to substrates at required rate and allow it to dry. Limit priming to areas that will be covered by sheet waterproofing in same day. Reprime areas exposed for more than 24 hours.
- C. Apply and firmly adhere sheets over area to receive waterproofing. Accurately align sheets and maintain uniform **2-1/2-inch-** minimum lap widths and end laps. Overlap and seal seams, and stagger end laps to ensure watertight installation.
 - 1. When ambient and substrate temperatures range between **25 and 40 deg F** , install self-adhering, modified bituminous sheets produced for low-temperature application. Do not use low-temperature sheets if ambient or substrate temperature is higher than **60 deg F** .
- D. Horizontal Application: Apply sheets from low to high points of decks to ensure that laps shed water.
- E. Apply continuous sheets over already-installed sheet strips, bridging substrate cracks, construction, and contraction joints.
- F. Seal edges of sheet-waterproofing terminations with mastic.
- G. Install sheet-waterproofing and auxiliary materials to tie into adjacent waterproofing.
- H. Repair tears, voids, and lapped seams in waterproofing not complying with requirements. Slit and flatten fishmouths and blisters. Patch with sheet waterproofing extending **6 inches** beyond repaired areas in all directions.
- I. Immediately install foam-plastic board foundation insulation/protection course with butted joints over waterproofing membrane.

3.4 FIELD QUALITY CONTROL

- A. Engage a site representative qualified by waterproofing membrane manufacturer to inspect substrate conditions, surface preparation, membrane application, flashings, protection, and drainage components, and to furnish reports to Architect.

3.5 PROTECTION, REPAIR, AND CLEANING

- A. Do not permit foot or vehicular traffic on unprotected membrane.
- B. Protect waterproofing from damage and wear during remainder of construction period.

- C. Protect installed board insulation from damage due to UV light, harmful weather exposures, physical abuse, and other causes. Provide temporary coverings where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.
- D. Correct deficiencies in or remove waterproofing that does not comply with requirements; repair substrates, reapply waterproofing, and repair sheet flashings.
- E. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 071326

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Building wrap.
 - 2. Flexible flashing.
- B. Related Requirements:
 - 1. Section 061600 "Sheathing" for sheathing joint and penetration treatment.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. For building wrap, include data on air and water-vapor permeance based on testing according to referenced standards.

1.4 INFORMATIONAL SUBMITTALS

- A. Evaluation Reports: For water-resistive barrier and flexible flashing, from ICC-ES.

PART 2 - PRODUCTS

2.1 WATER-RESISTIVE BARRIER

- A. Building Wrap: ASTM E 1677, Type I air barrier; with flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested according to ASTM E 84; UV stabilized; and acceptable to authorities having jurisdiction.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Dow Chemical Company (The); Styrofoam Weathermate Plus Brand Housewrap.
 - b. DuPont (E. I. du Pont de Nemours and Company); Tyvek Commercial Wrap,
 - c. Prior approved equal.
 - 2. Water-Vapor Permeance: Not less than **5 perms** per ASTM E 96/E 96M, Desiccant Method (Procedure A).
 - 3. Air Permeance: Not more than 0.004 cfm/sq. ft. at 0.3-inch wg (0.02 L/s x sq. m at 75 Pa) when tested according to ASTM E 2178.
 - 4. Allowable UV Exposure Time: Not less than three months.
- B. Building-Wrap Tape: Pressure-sensitive plastic tape recommended by building-wrap manufacturer for sealing joints and penetrations in building wrap.

2.2 MISCELLANEOUS MATERIALS

- A. Flexible Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubber or rubberized-asphalt compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than 0.025 inch (0.6 mm).
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. DuPont (E. I. du Pont de Nemours and Company); DuPont Flashing Tape.

- b. Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Vycor Butyl Self Adhered Flashing.
 - c. Protecto Wrap Company; BT-25 XL.
 - d. Raven Industries Inc.; Fortress Flashshield.
 - e. Advanced Building Products Inc.; Wind-o-wrap.
 - f. Carlisle Coatings & Waterproofing; CCW-705-TWF Thru-Wall Flashing.
 - g. Fiberweb, Clark Hammerbeam Corp.; Aquaflash 500.
 - h. Fortifiber Building Systems Group; Fortiflash 25 or Fortiflash 40.
 - i. Grace Construction Products, a unit of W. R. Grace & Co. - Conn.; Vycor Plus Self-Adhered Flashing
 - j. MFM Building Products Corp.; Window Wrap.
 - k. Sandell Manufacturing Co., Inc.; Presto-Seal.
 - l. Prior approved equal.
- B. Primer for Flexible Flashing: Product recommended by manufacturer of flexible flashing for substrate.
- C. Nails and Staples: ASTM F 1667.

PART 3 - EXECUTION

3.1 WATER-RESISTIVE BARRIER INSTALLATION

- A. Cover exposed exterior surface of sheathing with water-resistive barrier securely fastened to framing immediately after sheathing is installed.
- B. Cover sheathing with water-resistive barrier as follows:
- 1. Cut back barrier 1/2 inch (13 mm) on each side of the break in supporting members at expansion- or control-joint locations.
 - 2. Apply barrier to cover vertical flashing with a minimum 4-inch (100-mm) overlap unless otherwise indicated.
- C. Building Wrap: Comply with manufacturer's written instructions.
- 1. Seal seams, edges, fasteners, and penetrations with tape.
 - 2. Extend into jambs of openings and seal corners with tape.

3.2 FLEXIBLE FLASHING INSTALLATION

- A. Apply flexible flashing where indicated to comply with manufacturer's written instructions.
- 1. Prime substrates as recommended by flashing manufacturer.
 - 2. Lap seams and junctures with other materials at least 4 inches (100 mm) except that at flashing flanges of other construction, laps need not exceed flange width.
 - 3. Lap flashing over water-resistive barrier at bottom and sides of openings.
 - 4. Lap water-resistive barrier over flashing at heads of openings.
 - 5. After flashing has been applied, roll surfaces with a hard rubber or metal roller to ensure that flashing is completely adhered to substrates.

END OF SECTION 072500

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

- 1. Non-load-bearing steel framing systems for interior gypsum board assemblies.

B. Related Requirements:

- 1. Division 06 Section "Rough Carpentry" for wood blocking/backing as an optional alternate to flat strap and backing plate by this Section.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For fire-resistance-rated assemblies that incorporate non-load-bearing steel framing, provide materials and construction identical to those tested in assembly indicated, according to ASTM E 119 by an independent testing agency.
- B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated, according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.

2.2 FRAMING SYSTEMS

- A. Framing Members, General: Comply with ASTM C 754 for conditions indicated.

- 1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal unless otherwise indicated.
- 2. Protective Coating: ASTM A 653/A 653M, G40, hot-dip galvanized unless otherwise indicated.

- B. Studs and Runners: ASTM C 645. Use either steel studs and runners or dimpled steel studs and runners.

- 1. Steel Studs and Runners:

- a. Minimum Base-Metal Thickness:

- 1) Studs: 0.027 inch (22 gauge).
- 2) Runners: 0.033 inch (20 gauge).

- b. Depth: As indicated on Drawings.

- c. Use deep leg runners at tops of walls.

- 2. Dimpled Steel Studs and Runners:

- a. Minimum Base-Metal Thickness:

- 1) Studs: 0.025 inch (20 gauge equivalent)
- 2) Runners: 0.025 inch (20 gauge equivalent).

- b. Depth: As indicated on Drawings.

- c. Use deep leg runners at tops of walls.

- C. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.

- 1. Minimum Base-Metal Thickness: 0.027 inch.

- D. Hat-Shaped, Rigid Furring Channels: ASTM C 645.
 - 1. Minimum Base-Metal Thickness: **0.018 inch**.
 - 2. Depth: As indicated on Drawings.
 - E. Resilient Furring Channels: **1/2-inch**- deep, steel sheet members designed to reduce sound transmission.
 - 1. Configuration: Asymmetrical or hat shaped.
 - F. Radius Framing: Steel sheet runner for non-load-bearing curves, bends, variable radii and arches using a work-hardened steel base strip.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide ClarkDietrich Building Systems; Framing Contour Track CNTB, or a comparable product.
- 2.3 AUXILIARY MATERIALS
- A. General: Provide auxiliary materials that comply with referenced installation standards.
 - 1. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Coordination with Sprayed Fire-Resistive Materials:
 - 1. Before sprayed fire-resistive materials are applied, attach offset anchor plates or ceiling runners (tracks) to surfaces indicated to receive sprayed fire-resistive materials. Where offset anchor plates are required, provide continuous plates fastened to building structure not more than **24 inches** o.c.
 - 2. After sprayed fire-resistive materials are applied, remove them only to extent necessary for installation of non-load-bearing steel framing. Do not reduce thickness of fire-resistive materials below that required for fire-resistance ratings indicated. Protect adjacent fire-resistive materials from damage.

3.3 INSTALLATION, GENERAL

- A. Installation Standard: ASTM C 754.
 - 1. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.
- B. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
- C. Install bracing at terminations in assemblies.
- D. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

3.4 INSTALLING FRAMED ASSEMBLIES

- A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.
 - 1. Single-Layer Application: **16 inches** o.c. unless otherwise indicated.
 - 2. Tile Backing Panels: **16 inches** o.c. unless otherwise indicated.

- B. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
- C. Install studs so flanges within framing system point in same direction.
- D. Install tracks (runners) at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts penetrating partitions above ceiling.
 - 1. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
 - a. Install two studs at each jamb unless otherwise indicated.
 - b. Install cripple studs at head adjacent to each jamb stud, with a minimum **1/2-inch** clearance from jamb stud to allow for installation of control joint in finished assembly.
 - c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
 - 2. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
 - 3. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
 - 4. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated.
- E. Direct Furring:
 - 1. Screw to steel stud framing.
 - 2. Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced **24 inches** o.c.
- F. Installation Tolerance: Install each framing member so fastening surfaces vary not more than **1/8 inch** from the plane formed by faces of adjacent framing.

END OF SECTION 092216

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

- 1. Interior gypsum board.
- 2. Tile backing panels.
- 3. Texture finishes.

- B. Related Requirements:

- 1. Section 061600 "Sheathing" for gypsum sheathing for exterior walls.
- 2. Section 092216 "Non-Structural Metal Framing" for non-structural framing and suspension systems that support gypsum board panels.
- 3. Section 092116.23 "Gypsum Board Shaft Wall Assemblies" for metal shaft-wall framing, gypsum shaft liners, and other components of shaft-wall assemblies.
- 4. Section 093000 "Tiling" for cementitious backer units installed as substrates for ceramic tile.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

- B. Samples: For the following products:

- 1. Textured Finishes: 12-inches x 12-inches for each textured finish indicated and on same backing indicated for Work.

1.4 QUALITY ASSURANCE

- A. Mockups: Before beginning gypsum board installation, install mockups of at least 100 sq. ft. (9 sq. m) in surface area to demonstrate aesthetic effects and set quality standards for materials and execution.

- 1. Install mockups for the following:

- a. Each level of gypsum board finish indicated for use in exposed locations.
- b. Each texture finish indicated.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.6 FIELD CONDITIONS

- A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent.

- B. Do not install paper-faced gypsum panels until installation areas are enclosed and conditioned.

- C. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.

- 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
- 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 - PRODUCTS

2.1 PERFORMANCEREQUIREMENTS

- A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.
- B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.

2.2 GYPSUM BOARD, GENERAL

- A. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.3 INTERIOR GYPSUM BOARD

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. American Gypsum.
 - 2. CertainTeed Corp.
 - 3. Georgia-Pacific Gypsum LLC.
 - 4. Lafarge North America Inc.
 - 5. National Gypsum Company.
 - 6. USG Corporation.
 - 7. Prior approved equal.
- B. Gypsum Board, Type X: ASTM C 1396/C 1396M.
 - 1. Thickness: 5/8 inch (15.9 mm).
 - 2. Long Edges: Tapered.
- C. Gypsum Ceiling Board: ASTM C 1396/C 1396M.
 - 1. Thickness: 5/8 inch (15.9 mm).
 - 2. Long Edges: Tapered.
- D. Moisture- and Mold-Resistant Gypsum Board: ASTM C 1396/C 1396M. With moisture- and mold-resistant core and paper surfaces.
 - 1. Core: 5/8 inch (15.9 mm), Type X.
 - 2. Long Edges: Tapered.
 - 3. Mold Resistance: ASTM D 3273, score of 10 as rated according to ASTM D 3274.

2.4 SPECIALTY GYPSUM BOARD

- A. Gypsum Board, Type C: ASTM C 1396/C 1396M. Manufactured to have increased fire-resistive capability.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. American Gypsum; Firebloc Type C.
 - b. CertainTeed Corp.; ProRoc Type C.
 - c. Georgia-Pacific Gypsum LLC; Fireguard C.
 - d. Lafarge North America Inc.; Firecheck Type C.
 - e. National Gypsum Company; Gold Bond Fire-Shield C.
 - f. USG Corporation; Firecode C Core.
 - g. Prior approved equal.
 - 2. Thickness: As required by fire-resistance-rated assembly indicated on Drawings.

3. Long Edges: Tapered.

2.5 TILE BACKING PANELS

- A. Cementitious Backer Units: ANSI A118.9 and ASTM C 1288 or 1325, with manufacturer's standard edges.
1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. National Gypsum Company, Permabase Cement Board.
 - b. USG Corporation; DUROCK Cement Board.
 - c. Prior approved equal.
 2. Thickness: 5/8 inch (15.9 mm), Type X.
 3. Mold Resistance: ASTM D 3273, score of 10.
 4. Location: At wall locations where tile is indicated on Drawings.

2.6 TRIM ACCESSORIES

- A. Interior Trim: ASTM C 1047.
1. Material: Galvanized or aluminum-coated steel sheet or rolled zinc.
 2. Shapes:
 - a. Cornerbead.
 - b. LC-Bead: J-shaped; exposed long flange receives joint compound.
 - c. L-Bead: L-shaped; exposed long flange receives joint compound.
 - d. U-Bead: J-shaped; exposed short flange does not receive joint compound.
 - e. Expansion (control) joint.
- B. Aluminum Trim: Extruded accessories of profiles and dimensions indicated.
1. Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Fry Reglet Corp.
 - b. Gordon, Inc.
 - c. Pittcon Industries.
 - d. Prior approved equal.
 2. Aluminum: Alloy and temper with not less than the strength and durability properties of ASTM B 221 (ASTM B 221M), Alloy 6063-T5.
 3. Finish: Corrosion-resistant primer compatible with joint compound and finish materials specified, clear finish for Class II anodic finishes.

2.7 JOINT TREATMENT MATERIALS

- A. General: Comply with ASTM C 475/C 475M.
- B. Joint Tape:
1. Interior Gypsum Board: Paper.
 2. Tile Backing Panels: As recommended by panel manufacturer.
- C. Joint Compound for Interior Gypsum Board: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
1. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
 2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use drying-type, all-purpose compound.
 - a. Use setting-type compound for installing paper-faced metal trim accessories.

3. Fill Coat: For second coat, use drying-type, all-purpose compound.
4. Finish Coat: For third coat, use drying-type, all-purpose compound.
5. Skim Coat: For final coat of Level 5 finish, use high-build interior coating product designed for application by airless sprayer and to be used instead of skim coat to produce Level 5 finish.

D. Joint Compound for Tile Backing Panels:

1. Cementitious Backer Units: As recommended by backer unit manufacturer.

2.8 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.

B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.

C. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.

1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch (0.84 to 2.84 mm) thick.
2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.

D. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.

1. Fire-Resistance-Rated Assemblies: Comply with mineral-fiber requirements of assembly.

E. Acoustical Joint Sealant: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Accumetric LLC; BOSS 824 Acoustical Sound Sealant.
 - b. Grabber Construction Products; Acoustical Sealant GSC.
 - c. Specified Technologies, Inc.; Smoke N Sound Acoustical Sealant.
 - d. USG Corporation; SHEETROCK Acoustical Sealant.
 - e. Prior approved equal.

F. Thermal Insulation: As specified in Division 07 Section "Thermal Insulation."

G. Vapor Retarder: As specified in Division 07 Section "Thermal Insulation."

2.9 TEXTURE FINISHES

A. Primer: As recommended by textured finish manufacturer; e.g. Sure Coat or similar.

B. Non-Aggregate Finish: Pre-mixed, vinyl texture finish for spray application.

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. CertainTeed Corp.; ProRoc Easi-Tex Spray Texture.
 - b. USG Corporation; BEADEx FasTex Wall and Ceiling Spray Texture.
 - c. Prior approved equal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and substrates including welded hollow-metal frames and framing, with Installer present, for compliance with requirements and other conditions affecting performance.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLYING AND FINISHING PANELS, GENERAL

- A. Comply with ASTM C 840.
- B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.
- C. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch (1.5 mm) of open space between panels. Do not force into place.
- D. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.
- E. Form control and expansion joints with space between edges of adjoining gypsum panels.
- F. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc., except in chases braced internally).
 - 1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. (0.7 sq. m) in area.
 - 2. Fit gypsum panels around ducts, pipes, and conduits.
 - 3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch- (6.4- to 9.5-mm-) wide joints to install sealant.
- G. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch- (6.4- to 12.7-mm-) wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- H. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.
- I. STC-Rated Assemblies: Seal construction at perimeters, behind control joints, and at openings and penetrations with a continuous bead of acoustical sealant. Install acoustical sealant at both faces of partitions at perimeters and through penetrations. Comply with ASTM C 919 and with manufacturer's written recommendations for locating edge trim and closing off sound-flanking paths around or through assemblies, including sealing partitions above acoustical ceilings.
- J. Install sound attenuation blankets before installing gypsum panels unless blankets are readily installed after panels have been installed on one side.

3.3 APPLYING INTERIOR GYPSUM BOARD

- A. Install interior gypsum board in the following locations:
1. Wallboard Type: Vertical surfaces unless otherwise indicated.
 2. Type X: Where required for fire-resistance-rated assembly.
 3. Ceiling Type: Ceiling surfaces.
 4. Moisture- and Mold-Resistant Type: Within 4 feet of all wet locations not prepared for tile.
 5. Type C: Where required for specific fire-resistance-rated assembly indicated.
- B. Single-Layer Application:
1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing unless otherwise indicated.
 2. On partitions/walls, apply gypsum panels horizontally (perpendicular to framing) unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
 - a. Stagger abutting end joints not less than one framing member in alternate courses of panels.
 - b. At stairwells and other high walls, install panels horizontally unless otherwise indicated or required by fire-resistance-rated assembly.
 - c. Maintain ½” clearance above concrete floor to bottom of gypsum panels.
 3. On Z-furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
 4. Fastening Methods: Apply gypsum panels to supports with steel drill screws.
- C. Multilayer Application:
1. On ceilings, apply gypsum board indicated for base layers before applying face layers on walls/partitions; apply face layers in same sequence. Apply base layers at right angles to framing members and offset face-layer joints one framing member, 16 inches (400 mm) minimum, from parallel base-layer joints, unless otherwise indicated or required by fire-resistance-rated assembly.
 2. On partitions/walls, apply gypsum board indicated for base layers and face layers vertically (parallel to framing) with joints of base layers located over stud or furring member and face-layer joints offset at least one stud or furring member with base-layer joints, unless otherwise indicated or required by fire-resistance-rated assembly. Stagger joints on opposite sides of partitions.
 - a. Maintain ½” clearance above concrete floor to bottom of gypsum panels.
 3. On Z-furring members, apply base layer vertically (parallel to framing) and face layer either vertically (parallel to framing) or horizontally (perpendicular to framing) with vertical joints offset at least one furring member. Locate edge joints of base layer over furring members.
 4. Fastening Methods: Fasten base layers and face layers separately to supports with screws.
- D. Laminating to Substrate: Where gypsum panels are indicated as directly adhered to a substrate (other than studs, joists, furring members, or base layer of gypsum board), comply with gypsum board manufacturer's written recommendations and temporarily brace or fasten gypsum panels until fastening adhesive has set.

3.4 APPLYING TILE BACKING PANELS

- A. Cementitious Backer Units: Comply with manufacturer's written installation instructions and install at locations indicated to receive tile. Install with 1/4-inch (6.4-mm) gap where panels abut other construction or penetrations.
- B. Where tile backing panels abut other types of panels in same plane, shim surfaces to produce a uniform plane across panel surfaces.

3.5 INSTALLING TRIM ACCESSORIES

- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Control Joints: Install control joints according to ASTM C 840 and in specific locations approved by Architect for visual effect.
- C. Interior Trim: Install in the following locations:
 - 1. Cornerbead: Use at outside corners unless otherwise indicated.
 - 2. LC-Bead: Use at exposed panel edges.
 - 3. L-Bead: Use where indicated.
 - 4. U-Bead: Use at exposed panel edges.
- D. Aluminum Trim: Install in locations indicated on Drawings.

3.6 FINISHING GYPSUM BOARD

- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.
- D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
 - 1. Level 2: Ceiling plenum areas, concealed areas, and where indicated.
 - 2. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated.
 - a. Primer and its application to surfaces are specified in other Division 09 Sections.
 - 3. Level 5: Where indicated on Drawings.
 - a. Primer and its application to surfaces are specified in other Division 09 Sections.
- E. Cementitious Backer Units: Finish according to manufacturer's written instructions.

3.7 APPLYING TEXTURE FINISHES

- A. Surface Preparation and Primer: Prepare and apply primer to gypsum panels and other surfaces receiving texture finishes. Apply primer to surfaces that are clean, dry, and smooth.
- B. Texture Finish Application: Mix and apply finish using powered spray equipment, to produce a uniform texture matching approved mockup and free of starved spots or other evidence of thin application or of application patterns.
- C. Prevent texture finishes from coming into contact with surfaces not indicated to receive texture finish by covering them with masking agents, polyethylene film, or other means. If, despite these precautions, texture finishes contact these surfaces, immediately remove droppings and overspray to prevent damage according to texture-finish manufacturer's written recommendations.

3.8 PROTECTION

- A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.

- B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.

- C. Remove and replace panels that are wet, moisture damaged, and mold damaged.
 - 1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 092900

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes tufted broadloom carpet.
- B. Related Requirements:
 - 1. Section 024119 "Selective Demolition" for removing existing floor coverings.
 - 2. Section 033000 "Cast-in-Place-Concrete" for concrete slab-on-grade or topping slabs.
 - 1. Section 093000 "Tiling" for floor finishes related to this section.
 - 2. Section 096513 "Resilient Base and Accessories" for resilient wall base and accessories installed with tile carpeting.
 - 3. Section 096516 "Resilient Sheet Flooring" for floor finishes related to this section.
 - 4. Section 096519 "Resilient Tile Flooring" for floor finishes related to this section.
 - 5. Section 096543 "Linoleum Flooring" for floor finishes related to this section.
 - 6. Section 096813 "Tile Carpeting" for floor finishes related to this section.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review methods and procedures related to carpet installation including, but not limited to, the following:
 - a. Review delivery, storage, and handling procedures.
 - b. Review ambient conditions and ventilation procedures.
 - c. Review subfloor preparation procedures.

1.4 ACTION SUBMITTALS

- A. Product Data: For the following, including installation recommendations for each type of substrate:
 - 1. Carpet: For each type indicated. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
- B. Shop Drawings: Show the following:
 - 1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet.
 - 2. Carpet type, color, and dye lot.
 - 3. Seam locations.
 - 4. Pattern type, repeat size, location, direction, and starting point.
 - 5. Type, color, and location of insets and borders.
 - 6. Type, color, and location of edge, transition, and other accessory strips.
 - 7. Transition details to other flooring materials.
- C. Samples for Initial Selection: For each type of carpet indicated.
- D. Samples: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
 - 1. Carpet: **12-inch-** square Sample.
 - 2. Exposed Edge, Transition, and Other Accessory Stripping: **12-inch-** long Samples.
- E. Moisture Testing Locations and Results: Submit a diagram of the area showing the locations and results of each test to Architect and General Contractor. Flooring shall not be installed until sub-floor meets moisture requirements.

1.5 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: Submit the manufacturer's certification that the flooring has been tested by an independent laboratory and complies with the required fire tests.
 - B. Sample Warranty: For applicable warranties.
- 1.6 CLOSEOUT SUBMITTALS
- A. Maintenance Data: For carpet to include in maintenance manuals. Include the following:
 - 1. Methods for maintaining carpet, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
 - 2. Precautions for cleaning materials and methods that could be detrimental to carpet.
- 1.7 MAINTENANCE MATERIAL SUBMITTALS
- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Carpet: Full-width rolls equal to 5 percent of amount installed for each type indicated, but not less than 10 sq. yd..
- 1.8 QUALITY ASSURANCE
- A. Installer Qualifications: An experienced Installer who is certified by the International Certified Floorcovering Installers Association at the Commercial II certification level.
 - B. Fire-Test-Response Ratings: Where indicated, provide carpet identical to those of assemblies tested for fire response per NFPA 253 by a qualified testing agency.
- 1.9 DELIVERY, STORAGE, AND HANDLING
- A. Comply with CRI 104.
- 1.10 FIELD CONDITIONS
- A. Comply with CRI 104 for temperature, humidity, and ventilation limitations.
 - B. Environmental Limitations: Do not deliver or install carpet until spaces are enclosed and weathertight, wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at occupancy levels during the remainder of the construction period.
 - C. Do not install carpet over concrete slabs until slabs have cured, are sufficiently dry to bond with adhesive, and have pH range recommended by carpet manufacturer.
 - D. Where demountable partitions or other items are indicated for installation on top of carpet, install carpet before installing these items.
- 1.11 WARRANTY
- A. Warranty for Carpet: Manufacturer agrees to repair or replace components of carpet installation that fail in materials or workmanship within specified warranty period.
 - 1. Warranty does not include deterioration or failure of carpet due to unusual traffic, failure of substrate, vandalism, or abuse.
 - 2. Failures include, but are not limited to, more than 10 percent loss of face fiber, edge raveling, snags, runs, loss of tuft bind strength, loss of face fiber, and delamination.
 - 3. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics: For tile carpeting, as determined by testing identical products according to test method indicated below by a qualified testing agency.
 - 1. Flammability: Passes DOC-FF1-70 Pill Test (ASTM D 2859, NFPA 101).
 - 2. Critical Radiant Flux Classification: Flooring Radiant Panel Test (ASTM E 648, NFPA 253) - Class I, not less than 0.45 W/sq. cm.

3. Smoke Density: Smoke Chamber Test (ASTM E 662, NFPA 258) – less than 450 in flaming mode.
 - B. Antimicrobial Activity: Not less than 2-mm halo of inhibition for gram-positive bacteria, not less than 1-mm halo of inhibition for gram-negative bacteria, and no fungal growth, according to AATCC 174.
 - C. Electrostatic Propensity: Less than 3.5 kV according to AATCC 134.
- 2.2 TUFTED CARPET (CA)
- A. Manufacturers: Subject to compliance with requirements, provide the manufacturer/product(s) listed below.
 - B. CA-5:
 1. Brand: Patcraft.
 2. Style Name/Number: Resonate 10271.
 3. Color(s):
 - a. CA-5: Olivine 71306.
 4. Width: 12 feet.

2.3 INSTALLATION ACCESSORIES

- A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet manufacturer.
- B. Adhesives: Water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and is recommended or provided by carpet manufacturer.
- C. Seam Adhesive (Sealer): Hot-melt adhesive tape or similar product recommended by carpet manufacturer for sealing and taping seams and butting cut edges at backing to form secure seams and to prevent pile loss at seams.
- D. Edge/Transition Strips:
 1. Refer to Section 093000 "Tiling" for metal transition profiles installed with tile flooring products.
 2. Refer to Section 096513 "Resilient Base and Accessories" for vinyl molding accessories installed with carpeting and resilient flooring products.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance. Examine carpet for type, color, pattern, and potential defects.
- B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:
 1. Subfloor finishes comply with requirements specified in Section 033000 "Cast-in-Place Concrete" for slabs receiving installation of a finished material.
 2. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
 3. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents. Remove foreign matter and curing agents at least 24 hours before anhydrous calcium chloride tests and 48 hours before relative humidity tests will be run.
 4. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
 5. Moisture Testing: Proceed with installation only after substrates pass testing according to manufacturer's written recommendations, but not less stringent than the following:
 - a. Perform anhydrous calcium chloride test according to ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 5 lb of water/1000 sq. ft in 24 hours.

-OR-

- b. Perform relative humidity test using in situ probes according to ASTM F 2170. Allow 72 hours to achieve moisture equilibrium within the hole before taking measurements. Proceed with installation only after substrates have a maximum 85 percent relative humidity level.
- c. Perform a minimum of 3 tests for the first 1000 sq ft and 1 test for each 1000 sq ft after. Place the first test in the center of the room and remaining tests around the perimeter.
- d. Submit a diagram of the area showing the locations and results of each test to Architect and General Contractor.
- e. Carpet shall not be installed until sub-floor meets moisture requirements.
- f. Where results are not achieved and approved by Architect and General Contractor, apply a moisture vapor reduction/containment product following manufacturer's recommendations.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. General: Comply with CRI 104, Section 7.3, "Site Conditions; Floor Preparation," and with carpet manufacturer's written installation instructions for preparing substrates.
- B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions **1/8 inch** wide or wider, and protrusions more than **1/32 inch**, unless more stringent requirements are required by manufacturer's written instructions.
- C. Preparation for Flush Flooring Surface Material Transitions:
 1. Slope, or "feather", sub-floor where necessary with leveling compound 1/16"/1'-0" to attain a flush flooring surface transition to adjacent metal edge profile, threshold or flooring material.
- D. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by carpet manufacturer.
- E. Broom and vacuum clean substrates to be covered immediately before installing carpet.

3.3 INSTALLATION

- A. Comply with CRI 104 and carpet manufacturer's written installation instructions for the following:
 1. Direct-Glue-Down Installation: Comply with CRI 104, Section 9, "Direct Glue-Down Installation."
 2. Preapplied Adhesive Installation: Comply with CRI 104, Section 11.4, "Pre-Applied Adhesive Systems (Peel and Stick)."
- B. Install carpet before casework.
- C. Comply with carpet manufacturer's written recommendations and Shop Drawings for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile.
 1. Carpet direction to run length of corridors unless noted otherwise.
 2. At doorways, center seams under the door in closed position.
 3. Seams perpendicular to door openings are not acceptable.
- D. Install pattern parallel to walls and borders to comply with CRI 104, Section 15, "Patterned Carpet Installations" and with carpet manufacturer's written recommendations.
- E. Do not bridge building expansion joints with carpet.
- F. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet manufacturer.
- G. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- H. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.

3.4 CLEANING AND PROTECTING

- A. Perform the following operations immediately after installing carpet:
 - 1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
 - 2. Remove yarns that protrude from carpet surface.
 - 3. Vacuum carpet using commercial machine with face-beater element.
- B. Protect installed carpet to comply with CRI 104, Section 16, "Protecting Indoor Installations."
- C. Protect carpet against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet manufacturer and carpet adhesive manufacturer.

END OF SECTION 096816

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Resilient base.
2. Resilient stair accessories.
3. Resilient molding accessories.

B. Related Sections:

1. Section 096516 "Resilient Sheet Flooring".
2. Section 096519 "Resilient Tile Flooring".
3. Section 096543 "Linoleum Flooring".
4. Section 096813 "Tile Carpeting".
5. Section 096816 "Sheet Carpeting".

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Samples for Initial Selection: For each type of product indicated.
- C. Samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size samples.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: Submit the manufacturer's certification that the flooring has been tested by an independent laboratory and complies with the required fire tests.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.7 FIELD CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 65 deg F or more than 85 deg F, in spaces to receive resilient products during the following time periods:
 1. 48 hours before installation.
 2. During installation.
 3. 48 hours after installation.
- B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.
- C. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. FloorScore Compliance: Resilient base shall comply with requirements of FloorScore certification.
- 2.2 VINYL BASE (V-1)
- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. [Armstrong World Industries, Inc.](#)
 2. [Burke Mercer Flooring Products, Division of Burke Industries Inc.](#)
 3. [Flexco.](#)
 4. [Johnsonite; A Tarkett Company.](#)
 5. [Roppe Corporation, USA.](#)
- B. Product Standard: ASTM F 1861, Type TV (vinyl, thermoplastic).
1. Group: I (solid, homogeneous).
- C. Profile: Johnsonite Traditional with toe (coved).
1. Color: Wetlands #150.
 2. Height: 4 inches.
 3. Lengths: Cut lengths 48 inches long or coils in manufacturer's standard length.
- D. Outside Corners: Preformed.
- E. Inside Corners: Preformed.
- 2.3 THERMOPLASTIC-RUBBER BASE (V-2)
- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. [Armstrong World Industries, Inc.](#)
 2. [Burke Mercer Flooring Products, Division of Burke Industries Inc.](#)
 3. [Flexco.](#)
 4. [Johnsonite; A Tarkett Company.](#)
 5. [Roppe Corporation, USA.](#)
- B. Product Standard: ASTM F 1861, Type TP (rubber, thermoplastic).
1. Group: I (solid, homogeneous).
- C. Profile: Johnsonite Millwork Wall Base - Reveal or approved equal.
1. Color: Dark Beech.
 2. Height: 4-1/4 inches.
 3. Lengths: Cut lengths 96 inches long.
- D. Outside Corners: Job formed, mitered.
- E. Inside Corners: Job formed, mitered.
- 2.4 THERMOPLASTIC-RUBBER BASE (V-3)
- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. [Armstrong World Industries, Inc.](#)
 2. [Burke Mercer Flooring Products, Division of Burke Industries Inc.](#)
 3. [Flexco.](#)
 4. [Johnsonite; A Tarkett Company.](#)
 5. [Roppe Corporation, USA.](#)
- B. Product Standard: ASTM F 1861, Type TP (rubber, thermoplastic).
1. Group: I (solid, homogeneous).
- C. Profile: Johnsonite Traditional Straight Wall Base or approved equal.
1. Color: Dark Beech.
 2. Height: 4 inches.

3. Lengths: Cut lengths 96 inches long.

D. Outside Corners: Job formed.

E. Inside Corners: Job formed.

2.5 RUBBER STAIR ACCESSORIES (RST-1)

A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.

1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

B. Manufacturers: Subject to compliance with requirements, provide products by the following:

1. Nora Systems, Inc.; Norament Satura Stair Treads.

a. Color: Norament Satura - Indus #5108.

C. Stair Treads: ASTM F 2169.

1. Type: TS (rubber, vulcanized thermoset).

2. Nosing Style: Square, adjustable to cover angles between 60 and 90 degrees.

3. Thickness: 1/4 inch and tapered to back edge.

4. Size: Lengths and depths to fit each stair tread in one piece.

5. Integral Risers: Smooth, flat; in height that fully covers substrate.

D. Landing Tile: By Section 096519 - Resilient Tile Flooring.

2.6 VINYL MOLDING ACCESSORIES

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Armstrong World Industries, Inc.

2. Burke Mercer Flooring Products, Division of Burke Industries Inc.

3. Flexco.

4. Johnsonite; A Tarkett Company.

5. Roppe Corporation, USA.

B. Vinyl Reducer Strip For Resilient Flooring:

1. Profile and Dimensions (Model numbers indicated are Basis-of-Design Products by Johnsonite):

a. 1-5/8" wide Reducer for 1/16" or 1/8" to substrate (SSR-XXX-B).

b. 1-1/2" wide Adaptor for .080" to 1/8" material (SSR-XXX-D).

c. 1-1/4" wide Reducer for 1/8" to substrate (RRS-XXX-D).

2. Provide additional products as necessary if material heights vary from those listed above. Submit for Architect's approval.

3. Locations: Provide vinyl molding accessories in areas indicated.

4. Colors and Patterns: As selected by Architect from full range of industry colors.

C. Vinyl Transition Strips:

1. Profiles and Dimensions (Model numbers indicated are Basis-of-Design Products by Johnsonite):

a. 2-1/2" wide Wheeled Traffic Transition, 1/4" to 1/8" material (CTA-XXX-H).

b. 2-1/2" wide Wheeled Traffic Transition, 1/4" to .080" material (CTA-XXX-HT).

c. 2-1/2" wide Wheeled Traffic Transition, 1/4" materials to subfloor (CTA-XXX-J).

2. Provide additional products as necessary if material heights vary from those listed above. Submit for Architect's approval.

3. Locations: Provide vinyl molding accessories in areas indicated.

4. Colors and Patterns: As selected by Architect from full range of industry colors.

2.7 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
 - 1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
 - 1. Installation of resilient products indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.
- B. Concrete Substrates for Resilient Stair Accessories: Prepare horizontal surfaces according to ASTM F 710.
 - 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
 - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
- C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
- D. Do not install resilient products until they are the same temperature as the space where they are to be installed.
 - 1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.
- E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

3.3 RESILIENT BASE INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient base.
- B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
- C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
- D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
- E. Do not stretch resilient base during installation.
- F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.
- G. Install base tightly to door frames.
- H. Preformed Corners: Install preformed corners before installing straight pieces.

I. Job-Formed Corners:

1. Outside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches in length.
 - a. Form without producing discoloration (whitening) at bends.
2. Inside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches in length.
 - a. Miter or cope corners to minimize open joints.

3.4 RESILIENT ACCESSORY INSTALLATION

- A. Comply with manufacturer's written instructions for installing resilient accessories.
- B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.
- C. Flush Installations: Refer to Section 096516 "Resilient Sheet Flooring" and Section 096519 "Resilient Tile Flooring" for installation requirements where too great a transition exists between flooring material heights than can be bridged by the specified vinyl molding accessories. All flooring surface transitions must be flush on either side of the transition molding.

3.5 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.
- B. Perform the following operations immediately after completing resilient-product installation:
 1. Remove adhesive and other blemishes from exposed surfaces.
 2. Sweep and vacuum horizontal surfaces thoroughly.
 3. Damp-mop horizontal surfaces to remove marks and soil.
- C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Cover resilient products subject to wear and foot traffic until Substantial Completion.

END OF SECTION 096513



**GEOtek ENGINEERING
& TESTING SERVICES, INC.**

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April 29, 2014

Avera Hospital
1322 S. Cliff Avenue
Sioux Falls, SD 57105

Attn: Jacob Bunde

Subj: Geotechnical Exploration
Proposed Addition
St. Michael's Hospital Avera
410 W. 16th Avenue
Tyndall, SD
GeoTek #14-310

This correspondence presents our reporting of the geotechnical exploration for the referenced project. Previous correspondence is dated April 18 and 23, 2014. We are transmitting an electronic copy of our report to you and Apex along with a copy to the hospital in Tyndall. This work was done in accordance with your request on April 11, 2014.

We thank you for the opportunity of providing our services on this project, and look forward to working with you in the future. Should you have any questions regarding the project or report, please feel free to contact our office.

Respectfully submitted,

Ralph E. Lindner

Ralph E. Lindner, PE
Project Engineer

cc: Apex, Attn: Julian Pearson
St. Michael's Hospital Avera, Attn: Carol Deurmier

**GEOTECHNICAL EXPLORATION
PROPOSED ADDITION
ST. MICHAEL'S HOSPITAL AVERA
410 WEST 16TH AVENUE
TYNDALL, SOUTH DAKOTA**

GEOTEK #14-310

INTRODUCTION

This report presents the results of the recent geotechnical exploration program for the proposed addition to St. Michael's Hospital Avera in Tyndall, SD.

The scope of work as presented in this report is limited to the following:

1. To put down four test borings to gather data on the subsurface conditions for the proposed site.
2. To conduct field and laboratory tests to determine the engineering properties of the foundation soils.
3. To provide a written report for earthwork recommendations for design and construction.

FIELD DATA

Site Conditions

The area for the planned construction is located on the north side of the existing hospital. Most of the area is covered by trees and grass and is 1' to 3' higher than the floor of the hospital (1421'). The site preparation will include the removal of a couple of out buildings.

A site sketch is attached near the conclusion of the report showing the relative locations of the soil borings. Surface elevations at the boring locations were referenced to the top of the fire hydrant at the southwest corner of 17th Avenue and Fir Street. An elevation of 1426.72' was provided for the referenced data.

Subsurface Conditions

Four test borings were put down to gather data on the subsurface conditions for the planned construction. The attached boring logs illustrate the soil conditions encountered at the test locations.

In review, the soil profile consists of 2' to 4' of clay fill underlain by natural lean clay (glacial till). The lean clay soils extend to the depth of the borings.

The consistency of the lean clay varied from firm to stiff. The consistency and density of the soils are indicated by the N values (penetration resistance) shown on the boring logs.

Groundwater

Groundwater measurements were made at the boring locations and data is recorded on the boring logs. No measurement of groundwater was noted during or upon completion of the borings.

The groundwater measurements may or may not be a true indication of the absence of groundwater for the depth explored. The limited length of observation and low permeability characteristics of the clay soils restricts the accuracy of the measurements. For such soil conditions, groundwater measurements should be taken over a period of several weeks or months to collect sufficient data. Also, seasonal and yearly fluctuation of the groundwater table should be taken into account.

ENGINEERING REVIEW

Project Information

We understand that the proposed addition will be a one story slab-on-grade structure occupying about 7,000 square feet. We assume the floor of the addition will match the existing building floor elevation of 1421' with foundation support being provided by a perimeter footing resting about 5' below the floor level, approximate elevation 1416'.

Footings are designed for an allowable soil bearing pressure of 2,000 pounds per square foot (psf).

The above information and/or assumptions are important factors in our review and recommendations. If there are any additions or corrections to the above mentioned data, it is necessary that you contact us so that we may review our recommendations with regards to the revised plans.

Analysis

In our opinion, a spread footing foundation can be used for support of the planned construction. Footings should be supported by the natural lean clay. In our judgment, these soils are suitable for the design soil pressure of 2,000 psf.

Where existing buildings are removed for construction of the addition, footings and foundation walls should be completely removed. Over excavation should be backfilled with structural fill and compacted to at least 95 percent of Standard Proctor. Similarly, where removal of trees is needed for the site work, the major portion of the root system should be over excavated. Again, the over excavation should be backfilled with structural fill.

If the level of lean clay is below the design footing elevation, such as shallow depth interior footings, the excavation should extend to depth to expose the lean clay followed by

placement of a structure fill up to the design subgrade level. The structural fill should consist of an imported sand and gravel material with a maximum size of 3" and no more than 10 percent passing the #200 sieve. A compaction level of at least 95 percent of maximum (Standard Proctor) should be achieved.

No unusual amounts of settlement are anticipated. We estimate that total settlements will be less than 1" and differential settlements less than 1/2". A suitable expansion with a control joint between the existing building and addition should be provided for some anticipated settlement of the addition.

Floor Slab

Site preparation in the floor area should consist of excavating up to a depth to expose the natural lean clay. If fill is required, a similar structural fill described for the footings should be used. A compaction level should reach at least 95 percent of Standard Proctor.

The final 4" to 6" of fill directly beneath the slab should consist of a select granular material. This fill material have a maximum size of 1" and no more than 5 percent passing the #200 sieve.

Exterior Backfill and Drainage

The majority of the on-site soils can be used for exterior backfill around foundations. Debris, organic or over-sized material should not be used

Exterior backfill soils are located in nonstructural areas, such as lawn or landscaping, should be compacted to at least 90 percent of Standard Proctor. Other backfill areas that would support drives or sidewalks could be compacted to at least 95 percent.

Proper drainage should be maintained during and after construction. The general site grading should direct surface run-off waters away from the building excavation. Water which accumulates in the excavation should be removed in a timely manner.

Finished grades around the perimeter of the structure should be sloped such that positive drainage away from the building is provided. Also, a system to collect and channel roof run-off waters away from the building is suggested.

Construction Monitoring and Testing

At the time of excavation, the soil conditions between the boring locations should be observed. Competent soil should be noted at and below the excavation prior to placement of fill or foundations.

Where fill is used for structural support, such as fill in the footing or floor slab area, a system of field density tests should be taken during placement to document proper compaction for uniform support.

STANDARD OF CARE

The recommendations and opinions presented in this report are in accordance with current engineering practices for this time and area. Other than this, no express or implied warranty is intended.

Because the area of the borings is small in relation to the entire site, and for other reasons, GeoTek does not guarantee continuity or warrant conditions between the soil borings.

REMARKS

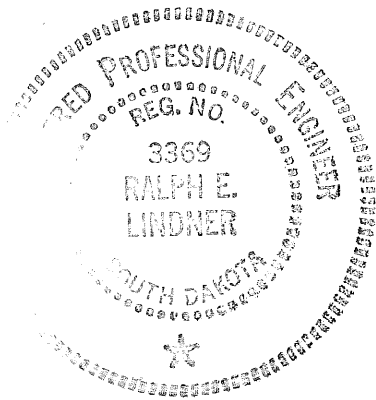
The collected soil samples will be retained in our office for a period of thirty days after the date of this report and will then be discarded unless we are notified otherwise.

We trust that this report provides you with the necessary information for the project. Should you have any comments or questions, please feel free to contact our office.

GeoTek Engineering & Testing Services, Inc.



Ralph E. Lindner, PE
Project Engineer



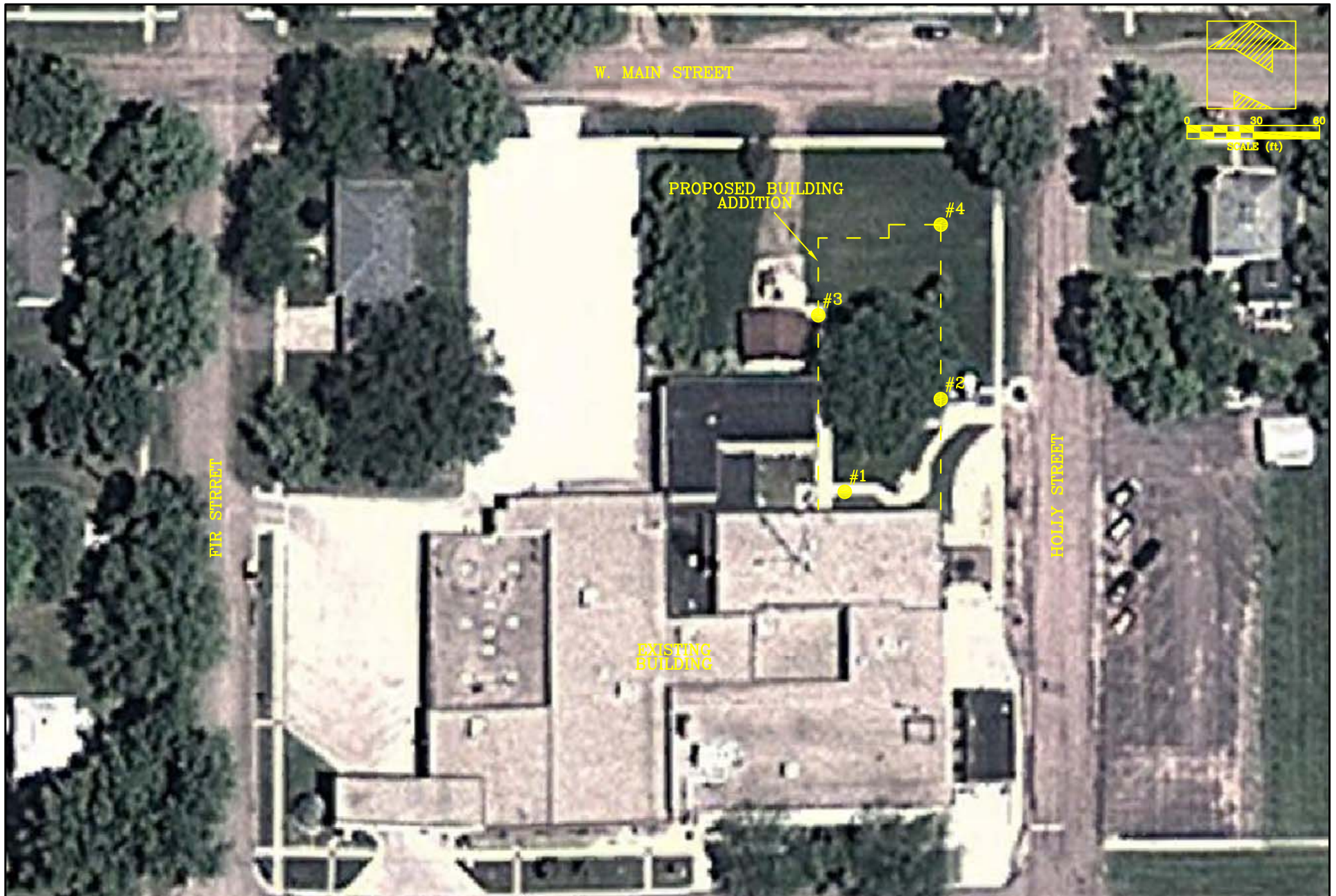


FIGURE 1
 TEST BORING LOCATION MAP
 PROPOSED ADDITION
 AVERA HOSPITAL
 W. MAIN STREET & HOLLY STREET
 TYNDALL, SD
ACAD\GEOTEK\RALPH\14-310

PROJECT#: 14-310
 DRAWN BY: ETP CHECKED BY:

GEOTEK ENGINEERING &
 TESTING SERVICES, INC.



GEOTEK ENGINEERING & TESTING SERVICES, INC.
 909 E. 50th St. N.
 Sioux Falls SD 57104
 605-335-5512 Fax 605-335-0773
 info@geotekeng.com

GEOTECHNICAL TEST BORING LOG

GEOTEK # <u>14-310</u>						BORING NO. <u>1 (1 of 1)</u>											
PROJECT <u>Proposed Addition, Avera Hospital, Tyndall, SD</u>																	
DEPTH in FEET	DESCRIPTION OF MATERIAL					GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS						
									NO.	TYPE	WC	D	LL	PL	QU		
	SURFACE ELEVATION <u>1423.43 ft</u>																
3 1/2	FILL, MOSTLY CLAY: very dark brown, moist, firm					FILL			0	HSA							
	LEAN CLAY WITH SAND: mottled brown and gray, moist, stiff, (CL)					TILL	8		2	SPT	20						
							10		3	SPT	16						
							8		4	SPT							
							12		5	SPT							
							11		6	SPT							
							9		7	SPT							
							13		8	SPT							
21	Bottom of borehole at 21 feet.																
WATER LEVEL MEASUREMENTS							START	<u>4-17-14</u>	COMPLETE	<u>4-17-14 4:49 pm</u>							
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	WATER LEVEL	METHOD											
4-17-14	4:56 pm	21	19.5	--	--	3.25" ID Hollow Stem Auger											
--	--	--	--	--	--												
--	--	--	--	--	--												
--	--	--	--	--	--	CREW CHIEF Roy Hanson											

GEOTECHNICAL TEST BORING 14-310.GPJ - GEOTEKENG.GDT 4/23/14



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GEOTECHNICAL TEST BORING LOG

GEOTEK # <u>14-310</u>						BORING NO. <u>2 (1 of 1)</u>												
PROJECT <u>Proposed Addition, Avera Hospital, Tyndall, SD</u>																		
DEPTH in FEET	DESCRIPTION OF MATERIAL					GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS							
									NO.	TYPE	WC	D	LL	PL	QU			
	SURFACE ELEVATION <u>1422.42 ft</u>																	
4 1/2	FILL, MOSTLY CLAY: dark brown, moist, stiff					FILL	10		1	HSA								
									2	SPT	16							
	LEAN CLAY WITH SAND: mottled brown and gray, moist, firm to stiff, (CL)					TILL	7	12	3	SPT	17							
									4	SPT								
									5	SPT								
									6	SPT								
									7	SPT								
16	Bottom of borehole at 16 feet.																	
WATER LEVEL MEASUREMENTS							START <u>4-17-14</u>	COMPLETE <u>4-17-14 5:34 pm</u>										
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	WATER LEVEL	METHOD												
4-17-14	5:34 pm	16	14.5	--	--	3.25" ID Hollow Stem Auger												
--	--	--	--	--	--													
--	--	--	--	--	--													
--	--	--	--	--	--	CREW CHIEF Roy Hanson												

GEOTECHNICAL TEST BORING 14-310.GPJ GEOTEKENG.GDT 4/23/14



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GEOTECHNICAL TEST BORING LOG

GEOTEK # 14-310

BORING NO. 3 (1 of 1)

PROJECT **Proposed Addition, Avera Hospital, Tyndall, SD**

DEPTH in FEET	DESCRIPTION OF MATERIAL	GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS								
					NO.	TYPE	WC	D	LL	PL	QU				
	↓ SURFACE ELEVATION <u>1424.37 ft.</u>														
3 1/2	FILL, MOSTLY CLAY: brown, moist, firm	FILL			1	HSA									
			9		2	SPT	14								
			11		3	SPT	18								
			10		4	SPT									
			10		5	SPT									
			9		6	SPT									
			8		7	SPT									
16	Bottom of borehole at 16 feet.														

WATER LEVEL MEASUREMENTS

START 4-18-14 COMPLETE 4-18-14 8:37 am

DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	WATER LEVEL	METHOD
4-18-14	8:38 am	16	14.5	--	--	3.25" ID Hollow Stem Auger
--	--	--	--	--	--	
--	--	--	--	--	--	
--	--	--	--	--	--	

CREW CHIEF Roy Hanson

GEOTECHNICAL TEST BORING 14-310.GPJ GEOTEKENG.GDT 4/23/14








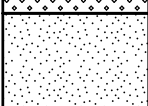
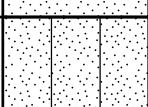

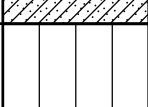
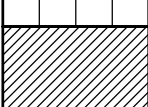
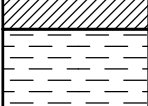
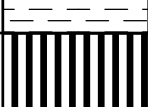
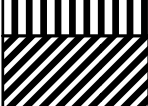
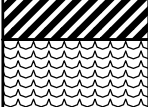
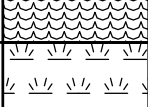
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GEOTECHNICAL TEST BORING LOG

GEOTEK # <u>14-310</u>						BORING NO. <u>4 (1 of 1)</u>										
PROJECT <u>Proposed Addition, Avera Hospital, Tyndall, SD</u>																
DEPTH in FEET	DESCRIPTION OF MATERIAL				GEOLOGIC ORIGIN	N	WL	SAMPLE		LABORATORY TESTS						
								NO.	TYPE	WC	D	LL	PL	QU		
	SURFACE ELEVATION <u>1423.53 ft</u>															
2	FILL, MOSTLY CLAY: dark brown, moist				FILL			1	HSA							
	LEAN CLAY WITH SAND: mottled brown and gray, moist, stiff, (CL)				TILL	9		2	SPT	16						
						11		3	SPT							
						9		4	SPT							
						11		5	SPT							
						12		6	SPT							
						11		7	SPT							
						12		8	SPT							
21	Bottom of borehole at 21 feet.															
WATER LEVEL MEASUREMENTS						START	<u>4-18-14</u>		COMPLETE	<u>4-18-14 9:19 am</u>						
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	WATER LEVEL	METHOD										
4-18-14	9:19 am	21	19.5	--	--	3.25" ID Hollow Stem Auger										
--	--	--	--	--	--											
--	--	--	--	--	--											
--	--	--	--	--	--	CREW CHIEF Roy Hanson										

GEOTECHNICAL TEST BORING 14-310.GPJ GEOTEKENG.GDT 4/23/14

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS		
			GRAPH	LETTER			
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS (LITTLE OR NO FINES)	CLEAN GRAVELS		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES		
		MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
			(APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES	
			(APPRECIABLE AMOUNT OF FINES)		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES	
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES		
		(LITTLE OR NO FINES)	SANDS WITH FINES		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES	
				(APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
		(APPRECIABLE AMOUNT OF FINES)	SANDS WITH FINES		SC	CLAYEY SANDS, SAND - CLAY MIXTURES	
				SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
						CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY			
			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS			
			CH	INORGANIC CLAYS OF HIGH PLASTICITY			
HIGHLY ORGANIC SOILS	(APPRECIABLE AMOUNT OF FINES)		OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS			
			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS			

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

BORING LOG SYMBOLS AND DESCRIPTIVE TERMINOLOGY

SYMBOLS FOR DRILLING AND SAMPLING

<u>Symbol</u>	<u>Definition</u>
Bag	Bag sample
CS	Continuous split-spoon sampling
DM	Drilling mud
FA	Flight auger; number indicates outside diameter in inches
HA	Hand auger; number indicates outside diameter in inches
HSA	Hollow stem auger; number indicates inside diameter in inches
LS	Liner sample; number indicates outside diameter of liner sample
N	Standard penetration resistance (N-value) in blows per foot
NMR	No water level measurement recorded, primarily due to presence of drilling fluid
NSR	No sample retrieved; classification is based on action of drilling equipment and/or material noted in drilling fluid or on sampling bit
SH	Shelby tube sample; 3-inch outside diameter
SPT	Standard penetration test (N-value) using standard split-spoon sampler
SS	Split-spoon sample; 2-inch outside diameter unless otherwise noted
WL	Water level directly measured in boring
▼	Water level symbol

SYMBOLS FOR LABORATORY TESTS

<u>Symbol</u>	<u>Definition</u>
WC	Water content, percent of dry weight; ASTM:D2216
D	Dry density, pounds per cubic foot
LL	Liquid limit; ASTM:D4318
PL	Plastic limit; ASTM:D4318
QU	Unconfined compressive strength, pounds per square foot; ASTM:D2166

DENSITY/CONSISTENCY TERMINOLOGY

<u>Density</u>	<u>N-Value</u>	<u>Consistency</u>
<u>Term</u>		<u>Term</u>
Very Loose	0-4	Soft
Loose	5-8	Firm
Medium Dense	9-15	Stiff
Dense	16-30	Very Stiff
Very Dense	Over 30	Hard

PARTICLE SIZES

<u>Term</u>	<u>Particle Size</u>
Boulder	Over 12"
Cobble	3" – 12"
Gravel	#4 – 3"
Coarse Sand	#10 – #4
Medium Sand	#40 – #10
Fine Sand	#200 – #40
Silt and Clay	passes #200 sieve

DESCRIPTIVE TERMINOLOGY

<u>Term</u>	<u>Definition</u>
Dry	Absence of moisture, powdery
Frozen	Frozen soil
Moist	Damp, below saturation
Waterbearing	Pervious soil below water
Wet	Saturated, above liquid limit
Lamination	Up to ½" thick stratum
Layer	½" to 6" thick stratum
Lens	½" to 6" discontinuous stratum

GRAVEL PERCENTAGES

<u>Term</u>	<u>Range</u>
A trace of gravel	2-4%
A little gravel	5-15%
With gravel	16-50%

ADDENDUM M1

ST. MICHAELS HOSPITAL
TYNDALL, SOUTH DAKOTA

DATE: May 1, 2014

Associated Consulting Engineering, Inc.
340 S. Phillips Ave.
Sioux Falls SD 57104-6910

SCOPE OF THIS ADDENDUM:

The following becomes a part of the original Drawings and Project Manual, taking precedence over those items that may conflict.

The Bidder shall note receipt and make acknowledgment of this addendum on the bid form, incorporating its provisions in their bid.

This addendum has been issued to all bidders and to all others to whom Drawings and Project Manuals have been issued by the office of the Architect/Engineer.

SPECIFICATION ITEMS:

SECTION 230900

SUBSECTION 1.01- SCOPE:

1. Add the following:

Provide a seamless connection to the existing Apogee building automation system (BAS) with no loss of functionality and no additional gateways, interface devices or servers. Entire system must be complaint with South Dakota Bureau of Information and Telecommunications (BIT) standards and protocols. Functional requirements include, but are not limited to:

- a. Upload/Download of controllers from the existing Apogee server.
- b. Flashing of controllers with permanent changes to controller programs.
- c. Controller level occupancy scheduling.
- d. Parameter access for controllers.
- e. Global data sharing and scheduling.
- f. Setpoint change.
- g. Number of terminal unit points limited to those specified or needed for the operational sequence.
- h. Include point mapping and graphic construction.
- i. All work by the temperature control subcontractor shall be independent of other vendors and Owner intervention.
- j. Temperature control subcontractor to provide all training needed to allow Owner to operate and maintain the system.
- k. Temperature control subcontractor to provide electronic copies of all operating system software and project data base.
- l. Temperature controls subcontractor to provide copies of all software configuration files (*.caf, etc.) for all field controllers after the balancing and adjustments.

- m. Temperature controls contractor shall provide Owner with all the necessary software and training to add/modify/delete/edit graphics with in-house technicians.
- n. Contractor to provide all operator workstation hardware including peripheral devices.

DRAWING ITEMS:

DRAWING SHEET M1.1

- 1. Add text note to the NORTEC HUMIDIFIER on the RAHU DETAIL.
 - a. PIPE A 1” COND FROM AHU-1 TO HUM-1 & 1 ½” STEAM FROM HUM-1 TO AHU-1. SLOPE PIPES BACK TO HUM-1.
 - b. EXTEND HUM-1 DRAIN HD.
- 2. Change component 4 on RAHU detail to “ECON MIXING”

DRAWING SHEET M2.2

- 1. Add note 27 to the EMERGENCY OXYGEN INLET CONNECTION BOX: NEW OXYGEN TANKS TO BE LOCATED APPROXIMATELY 50' EAST OF THIS LOCATION. COORDINATE WITH SITE UTILITIES AND GENERAL CONTRACTOR FOR EXACT LOCATION.

DRAWING SHEET M2.3

- 1. VAC piping from the outlet side of the ZONE BOX to the main tee is 1 ¼”

ADD DRAWING SHEET M3.2

- 1. See revision sheets M3.2, 2 of 4 and 3 of 4 dated 5/1/14, for Mechanical work done for existing Operating Room.

DRAWING SHEET M4.1

- 1. Add AHU SCHEDULE. See RM4.1, 4 of 4, dated 5-1-14.
- 2. Add CONDENSING UNIT SCHEDULE. See RM4.1, 4 of 4, dated 5-1-14.
- 3. Add EF-5 to FAN SCHEDULE. See RM4.1, 4 of 4, dated 5-1-14.
- 4. Add Remark 1 to ELECTRIC HUMIDIFIER SCHEDULE. See RM4.1, 4 of 4, dated 5-1-14.
- 5. Add HUM-2 to ELECTRIC HUMIDIFIER SCHEDULE. See RM4.1, 4 of 4, dated 5-1-14.
- 6. Add D4 and R2 to REGISTER GRILLE & DIFFUSER SCHEDULE. See RM4.1, 4 of 4, dated 5-1-14.

SUBSTITUTIONS AND PRODUCT OPTIONS

The following material or equipment furnished by the manufacturers listed may be substituted as equal, providing that each item, material and piece of equipment conforms to the design and requirements of the Drawings and Project Manual.

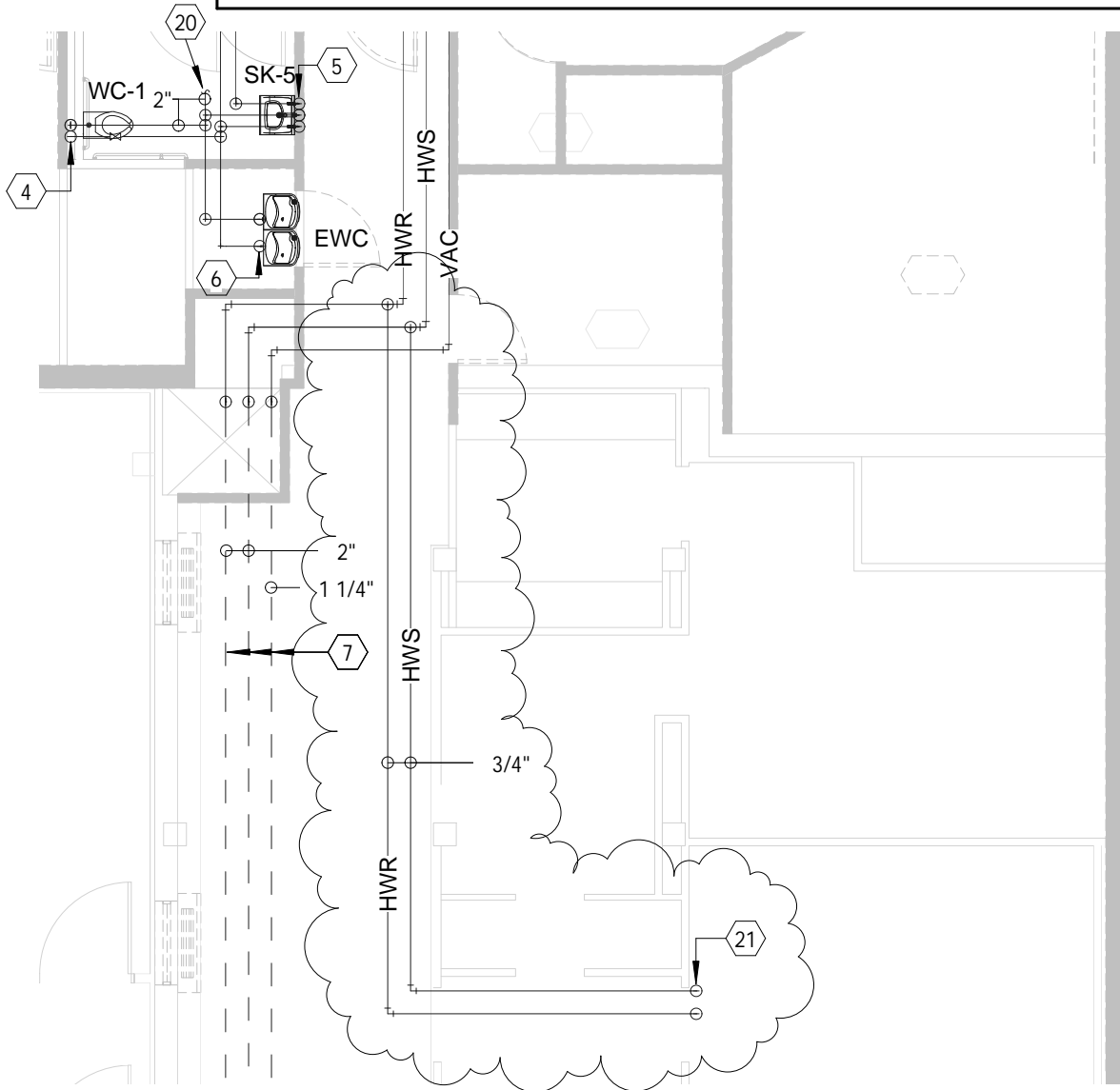
SECTION	ITEM	MANUFACTURER
220600	Hot Water Radiant Panels	TWA Panels System
220600	Automatic Flow Valves	NuTech
220600	Hot Water Radiant Ceiling Panels	Price

230800	Air Handling Units	Xetex Venmar
230800	Humidifier	Neptronic Carel
230800	Hepa Filters	A-J Manufacturing
230800	Power Roof Ventilators	Aerovent; Soler & Palau
230800	Adjustable Frequency Drives	Square D
230800	Duct Mounted Heating Coils	Greenheck

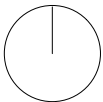
END OF ADDENDUM

PLUMBING & HEATING NOTES

- 20 CONNECT VENT PIPING TO EXISTING LEGAL VENT. IF NON EXIST ROUTE UP THRU ROOF. PIPING SHOULD BE 4" THRU ROOF.
- 21 3/4" HWS UP & 3/4" HWR UP TO AHU. SEE SHEET RM3.2 PAGE 3 OF 4 DATED 5/1/14



N



EXISTING FLOOR PLAN-PLBG & HEATING

SCALE 0 4 8 12 16

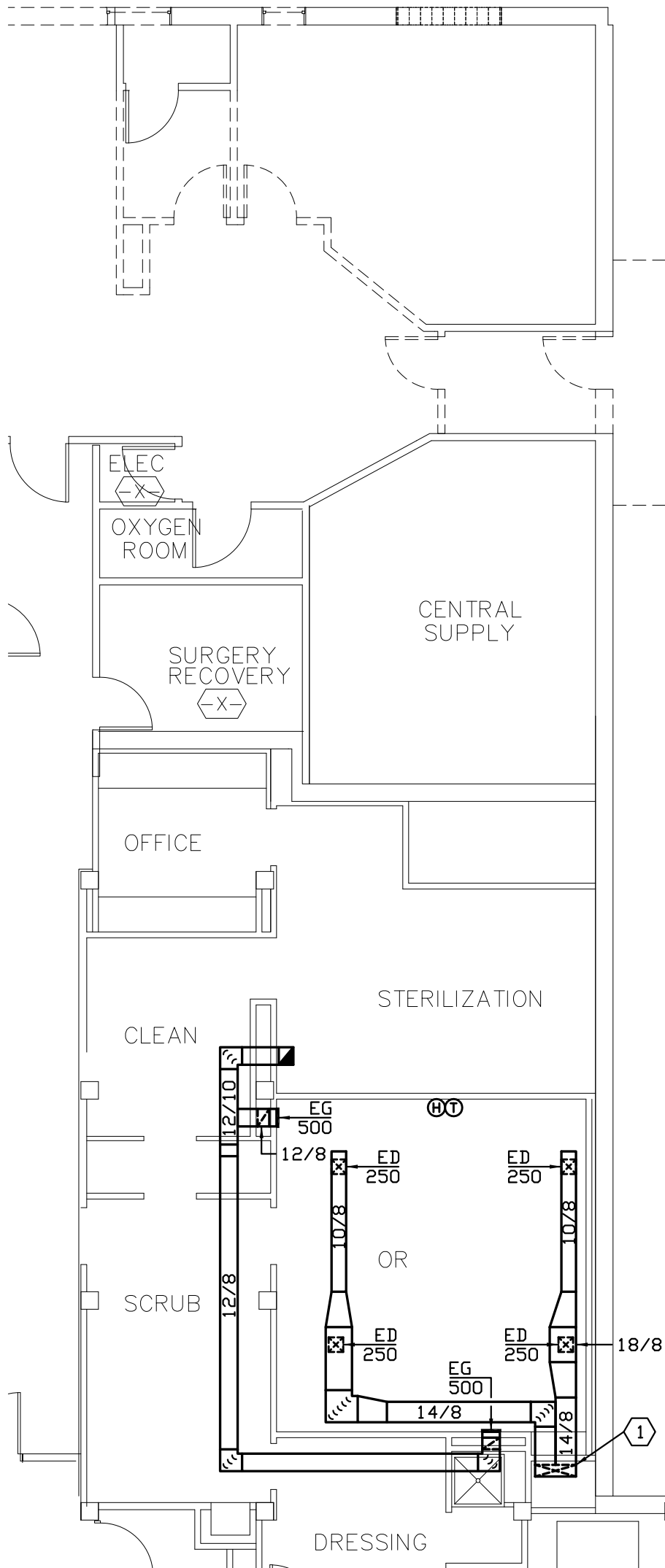


**ASSOCIATED
CONSULTING
ENGINEERING
INCORPORATED**

PROJECT
ST. MICHAELS
TYNDALL, SOUTH DAKOTA

PROJECT NO.:
113047
DATE:
05/01/14
DRAWN BY:
EJS

SHEET
**RM2.2
1 OF 4**



**FIRST FLOOR PLAN -
DEMO - MECHANICAL**

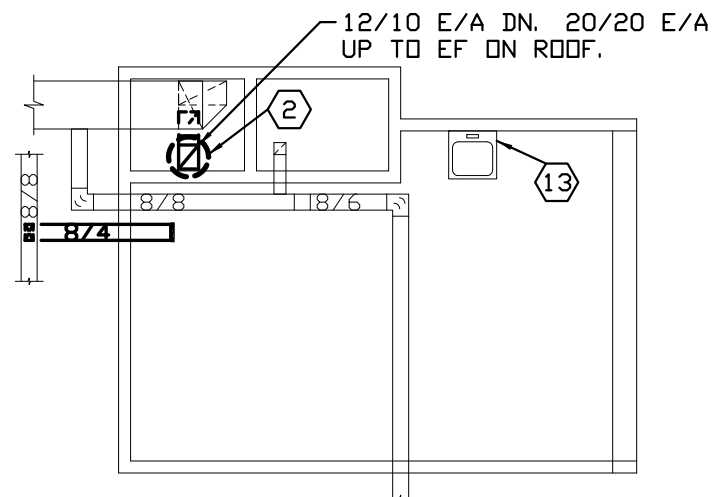
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MECHANICAL NOTES

- 1 REMOVE S/A DUCTWORK AND DIFFUSERS IN OR. CAP DUCTWORK AT DUCT MAIN IN CHASE AND ABANDON IN PLACE. DISCONNECT AND VALVE OFF EXISTING AHU PIPING CONNECTIONS.
- 2 REMOVE E/A FAN AND ASSOCIATED DUCTWORK.
- 3 R/A GRILLE MOUNTED 12" AFF.
- 4 12/16 S/A UP. COORDINATE WITH EXISTING STRUCTURAL.
- 5 LAMINAR DIFFUSER SYSTEM. COORDINATE EXACT LOCATION WITH OPERATING TABLE.
- 6 16/12 R/A UP.
- 7 CONDENSING UNIT SET ON ROOF OF NEW ADDITION. INSTALL REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
- 8 HUMIDIFIER MOUNTED ON WALL.
- 9 AIR HANDLING UNIT SET ON 4 INCH CONCRETE PAD AND 4 INCH (MIN.) BASE RAIL.
- 10 12/16 S/A UP. COORDINATE WITH EXISTING STRUCTURAL.
- 11 REPLACE EXISTING WINDOW WITH 6" THICK LOUVER. LOUVER SHALL BE GREENHECK MODEL ESD-635 OR EQUAL. APPROXIMATE SIZE OF 72/72. FIELD VERIFY EXACT SIZE. BLANK OFF BOTTOM 12" OF LOUVER.
- 12 E/A UP THRU ROOF TO PRV. USE EXISTING PRV OPENING AND CURB MODIFY EXISTING CURB AS REQUIRED FOR NEW EXHAUST FAN.
- 13 REMOVE SINK, WASTE, VENT, HW AND CW PIPING. CAP PIPES IN WALL.
- 14 3/4" HWS DN, 3/4" HWR DN
- 15 3/4" HWS & 3/4" HWR DN TO AHU-2, EXTEND COPPER COND PIPE TO FSK
- 16 1 1/2" STEAM FROM HUM-2 TO AHU-2, 1/2" CW TO HUM-2. EXTEND HUM DRAIN TO FSK. SLOPE STEAM PIPING BACK TO HUM-2.
- 17 EXTEND 1" LOUVER DRAIN TO FSK
- 18 INSTALL NEW FSK. CONNECT WASTE PIPING TO EXISTING BELOW FLOOR. TIE VENT PIPE INTO EXISTING SK VENT.
- 19 CONNECT CW PIPE TO EXISTING SK CW PIPING.
- 20 BALANCE RETURN AIR GRILLES & CONTROL THE AHU ECONMIZER & EF-5 TO MAINTAIN A +0.01 IN WC IN THE OR.

GENERAL NOTES

1. EQUIPMENT, DUCTWORK, PIPING, ETC. TO BE REMOVED IS SHOWN WITH HEAVY LINES.
2. EQUIPMENT, DUCTWORK, PIPING, ETC. TO REMAIN IS SHOWN WITH LIGHT LINES.



**SECOND FLOOR
PLAN - MECHANICAL**

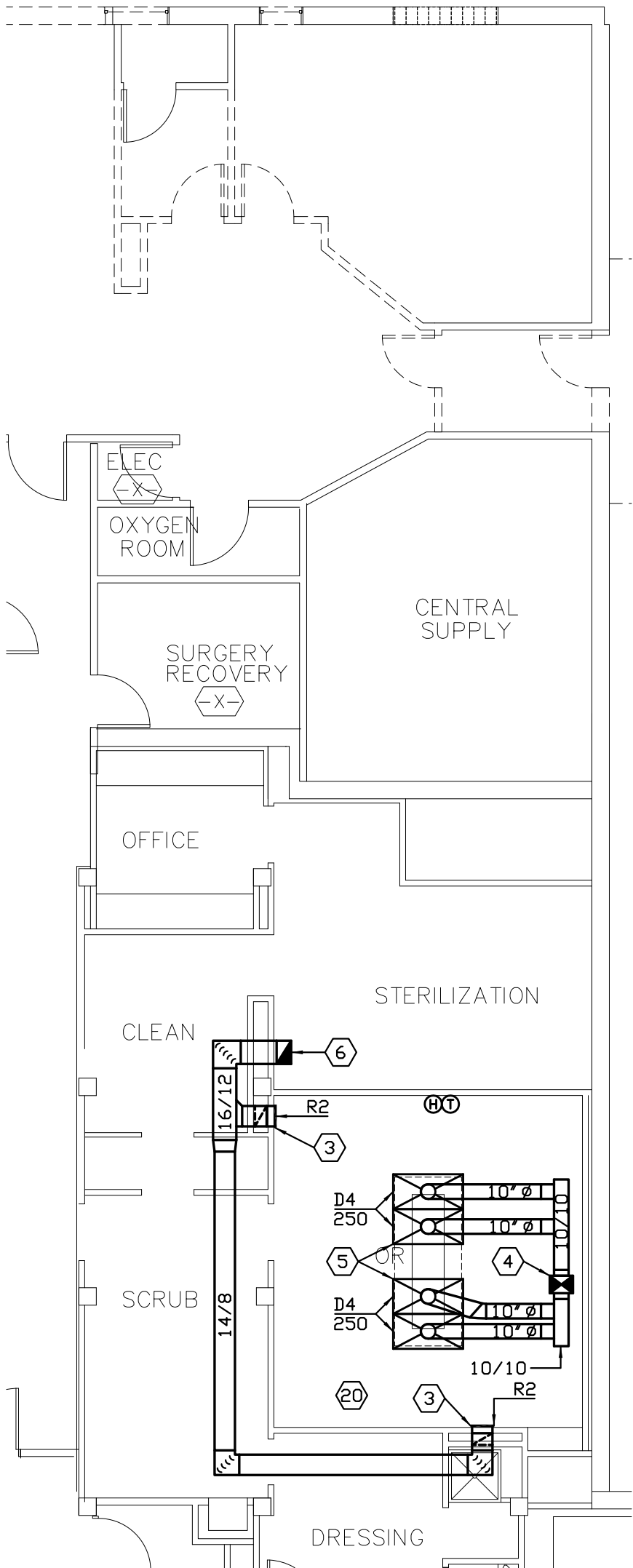
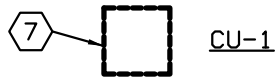
SCALE 0 4 8 12 16



**Associated
Consulting
Engineering,
Incorporated**

PROJECT
ST. MICHAELS
TYNDALL, SOUTH DAKOTA

PROJECT NO. 113047	SHEET RM3. 2
DATE 5-1-14	
DRAWN BY Td/Dd	2 OF 4



FIRST FLOOR PLAN - MECHANICAL
 SCALE 0 4 8 12 16

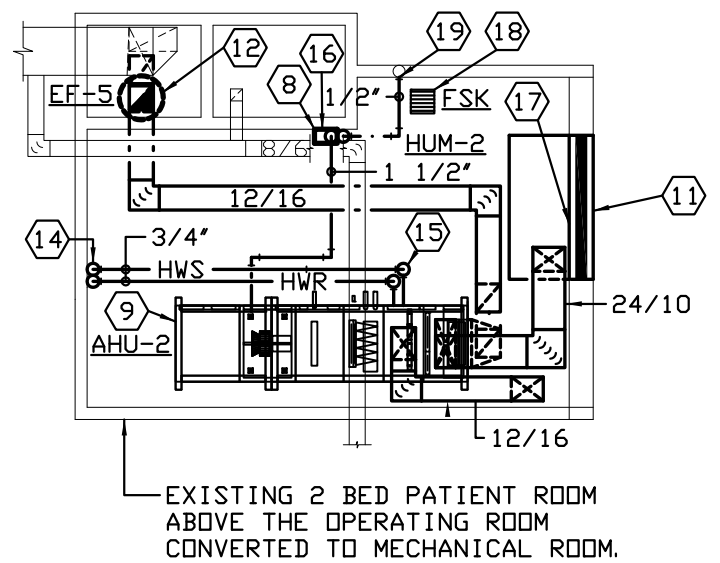
MECHANICAL NOTES

PLUMBING NOTES :

- ① REMOVE S/A DUCTWORK AND DIFFUSERS IN DR. CAP DUCTWORK AT DUCT MAIN IN CHASE AND ABANDON IN PLACE. DISCONNECT AND VALVE OFF EXISTING AHU PIPING CONNECTIONS.
- ② REMOVE E/A FAN AND ASSOCIATED DUCTWORK.
- ③ R/A GRILLE MOUNTED 12" AFF.
- ④ 12/16 S/A UP. COORDINATE WITH EXISTING STRUCTURAL.
- ⑤ LAMINAR DIFFUSER SYSTEM. COORDINATE EXACT LOCATION WITH OPERATING TABLE.
- ⑥ 16/12 R/A UP.
- ⑦ CONDENSING UNIT SET ON ROOF OF NEW ADDITION. INSTALL REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.
- ⑧ HUMIDIFIER MOUNTED ON WALL.
- ⑨ AIR HANDLING UNIT SET ON 4 INCH CONCRETE PAD AND 4 INCH (MIN.) BASE RAIL.
- ⑩ 12/16 S/A UP. COORDINATE WITH EXISTING STRUCTURAL.
- ⑪ REPLACE EXISTING WINDOW WITH 6" THICK LOUVER. LOUVER SHALL BE GREENHECK MODEL ESD-635 OR EQUAL. APPROXIMATE SIZE OF 72/72. FIELD VERIFY EXACT SIZE. BLANK OFF BOTTOM 12" OF LOUVER.
- ⑫ E/A UP THRU ROOF TO PRV. USE EXISTING PRV OPENING AND CURB MODIFY EXISTING CURB AS REQUIRED FOR NEW EXHAUST FAN.
- ⑬ REMOVE SINK, WASTE, VENT, HW AND CW PIPING. CAP PIPES IN WALL.
- ⑭ 3/4" HWS DN, 3/4" HWR DN
- ⑮ 3/4" HWS & 3/4" HWR DN TO AHU-2, EXTEND COPPER COND PIPE TO FSK
- ⑯ 1 1/2" STEAM FROM HUM-2 TO AHU-2, 1/2" CW TO HUM-2. EXTEND HUM DRAIN TO FSK. SLOPE STEAM PIPING BACK TO HUM-2.
- ⑰ EXTEND 1" LOUVER DRAIN TO FSK
- ⑱ INSTALL NEW FSK. CONNECT WASTE PIPING TO EXISTING BELOW FLOOR. TIE VENT PIPE INTO EXISTING SK VENT.
- ⑲ CONNECT CW PIPE TO EXISTING SK CW PIPING.
- ⑳ BALANCE RETURN AIR GRILLES & CONTROL THE AHU ECONMIZER & EF-5 TO MAINTAIN A +0.01 IN WC IN THE DR

GENERAL NOTES

1. EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC IS SHOWN LIGHT. WORK TO BE PROVIDED IS SHOWN WITH HEAVY LINES.



SECOND FLOOR PLAN - MECHANICAL
 SCALE 0 4 8 12 16



Associated Consulting Engineering, Incorporated

PROJECT
 ST. MICHAELS
 TYNDALL, SOUTH DAKOTA

PROJECT NO. 113047	SHEET RM3. 2
DATE 5-1-14	
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AHU SCHEDULE

AHU NO.	MANUF. NO.	MODEL	CFM	DESIGN D/A CFM	ESP	TSP	FAN MHP	BHP	MOTOR VOLTS	PH	FAN TYPE/SIZE	COOLING COIL CAPACITY	HEATING COIL	PRE-FILTER	THICK													
AHU-2	DAIKIN	CAH004GDM	1000	200	1.0	2.4	1.5	0.7	208	3	DD PLENUM/12.4	2588	32	70.3/60.6	50.6/49.2	320	0.3	33.5	3.2	180	150	50	80	MERV7	5.0	200	0.53	2
REMARKS: 1. MOTOR SHALL BE CONTROLLED BY VFD. 2. HEATING CAPACITIES BASED ON 75% WATER/25% PROPYLENE GLYCOL.																												

COMBINATION FINAL FILTER				OPER. WT(LBS)		REMARKS
EFF	AREAS(F)	MAX FV	APD	THICK	WT(LBS)	
MERV13	4.0	250	0.14	2		1,2
MERV17	4.0	250	0.62	12	1850	

CONDENSING UNIT SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	MATCHED FCU	CAPACITY (MBH)	AMB. AIR TEMP.	ELECTRICAL VOLTS	PH	MCA	MIN SEER	OPER. WT. (LBS)	REMARKS
CU-1	AABN	CBB-B-036-8-D	AHU-2	36	95	208	3	17	16	237	1,2

REMARKS:
 1. PROVIDE LOW AMBIENT OPERATION DOWN TO 0°F.
 2. PROVIDE DIGITAL SCROLL COMPRESSOR.

FAN SCHEDULE

FAN NO.	MANUFACTURER	MODEL NO.	TYPE	LOCATION	CFM	S. P.	RPM	TIP SPEED (FPM)	MOTOR MHP	BHP	ELEC. VOLTS	PH	SIZE	WEIGHT (LBS)	REMARKS
EF-5	GREENHECK	G-095-VG	PRV	RDDF	800	0.25	1495	4255	1/6	0.1	115	1	8.1	30	1

REMARKS:
 1. FAN CONTROLLED BY BAS.

ELECTRIC HUMIDIFIER SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.	STYLE	MANIFOLD LOCATION	CAPACITY LB/HR	ELECTRICAL KW	VOLTS	PH	REMARKS
HUM-1	NDRTEC	NH-EL	ELECTRIC	RAHU-1	20	7.5	208	3	1
HUM-2	NDRTEC	RH2 DUCT	ELECTRIC	RAHU-1	8.7	3.8	208	1	1

REMARKS:
 1. PROVIDE INSULATED DISPERSION TUBE.

REGISTER GRILLE & DIFFUSER SCHEDULE

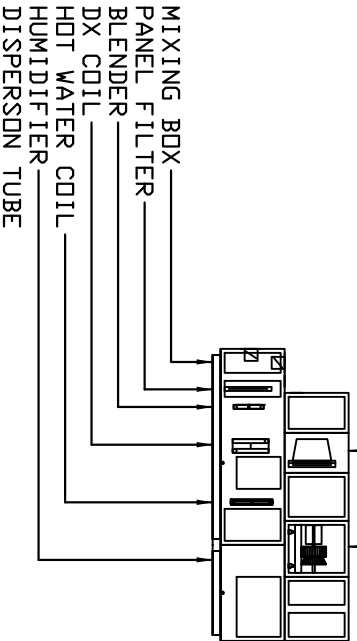
SYMBOL	MANUF.	CONSTR MAT'L	MODEL NO.	MAX CFM	OVERALL SIZE	THROAT SIZE	NC	THROW	TOTAL PD (IN. W. G.)	FRAME	PATTERNS	REMARKS
D4	KRUEGER	SS	5000	250	24/60	10" ø	21	---	0.08	LAY-IN	LAMINAR	1,2
R2	KRUEGER	A	SS80	500	16/12	14/10	25	---	0.08	SURFACE	35°	

LEGEND:
 R - REGISTER
 G - GRILLE
 D - DIFFUSER
 GENERAL NOTES:
 1. THROWS ARE BASED ON TERMINAL VELOCITIES AT 50 FPM.
 2. NC VALUES ARE BASED UPON A 10dB ROOM ATTENUATION.
 3. SEE SPECIFICATIONS FOR OPPOSED BLADE DAMPER REQUIREMENTS.
 REMARKS:
 1. PROVIDE NECK DAMPER.
 2. PROVIDE GASKET KIT.

SD - SINGLE DEFLECTION
 DD - DOUBLE DEFLECTION

A - ALUMINUM CONSTRUCTION
 S - STEEL CONSTRUCTION

PLENUM FAN
 PANEL AND
 BAG FILTER



AHU DETAIL

PROJECT NO.	113047	SHEET	RM4. 1
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		4 OF	4

PROJECT
 ST. MICHAELS
 TYNDALL, SOUTH DAKOTA

Associated Consulting Engineering, Incorporated



ADDENDUM E1

ST. MICHAELS HOSPITAL
TYNDALL, SOUTH DAKOTA

DATE: May 1, 2014

Associated Consulting Engineering, Inc.
340 S. Phillips Ave.
Sioux Falls SD 57104-6910

SCOPE OF THIS ADDENDUM:

The following becomes a part of the original Drawings and Project Manual, taking precedence over those items that may conflict.

The Bidder shall note receipt and make acknowledgment of this addendum on the bid form, incorporating its provisions in their bid.

This addendum has been issued to all bidders and to all others to whom Drawings and Project Manuals have been issued by the office of the Architect/Engineer.

DRAWING ITEMS:

DRAWING SHEET E2.0

FLOOR PLAN – ELECTRICAL

1. In reference to keynote #3, see attached drawings for additional information relative to the operating room mechanical system upgrades.
2. In reference to keynote #6, provide items listed. Field verify installation location for added 112.5KVA transformer and associated disconnect switch. Preferred location would be in the existing main electrical service room or in the adjacent boiler room in the lower level. Coordinate with Owner.

DRAWING SHEET E3.1

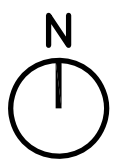
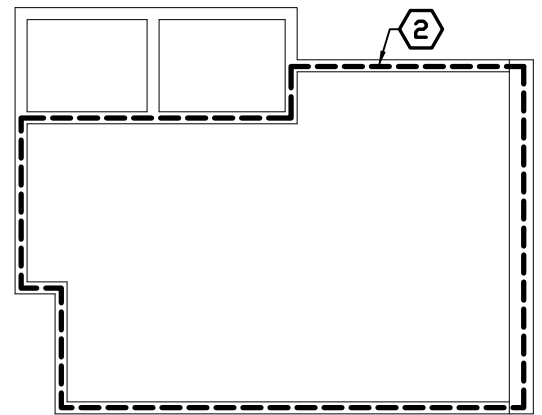
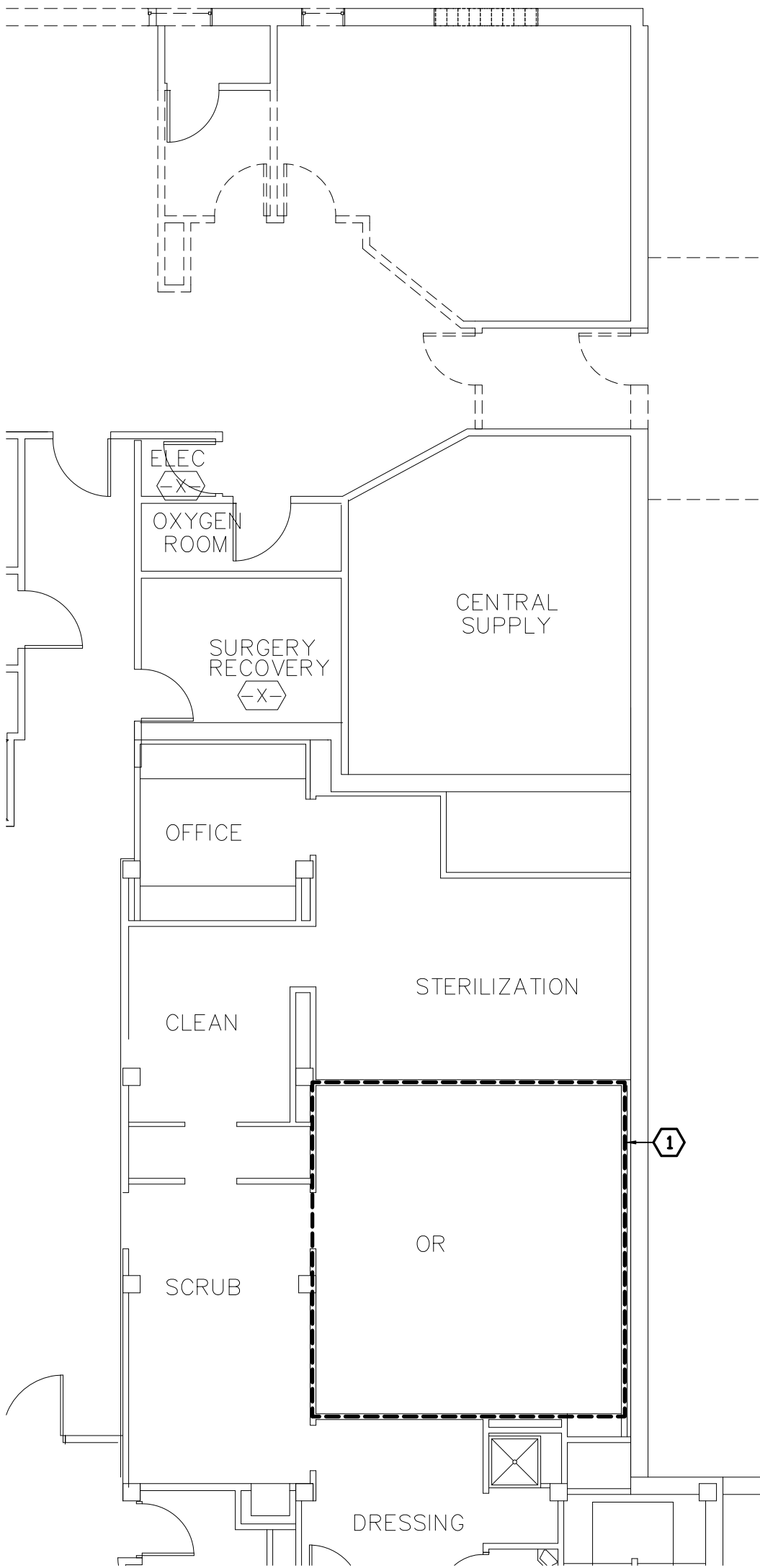
ELECTRICAL SCHEDULES

1. In reference to Panel DP, provide the following for modifications relative to the operating room mechanical system upgrades:
 - a. HUM-2: Provide 25A/2P and associated connections for humidifier, connect to circuits DP - 65, 67. Provide local disconnect switch at unit, control by mechanical contractor.
 - b. EF-5: Provide 15A/1P and associated connections for exhaust fan, connect to circuit DP-69. Provide single point connection, control by mechanical contractor.
2. In reference to Panel EQ, change panel to MLO, MCB not required.
3. In reference to Panel EQ, provide the following for modifications relative to the operating room mechanical system upgrades:
 - a. AHU-2: Provide 15A/3P and associated connections for air handling unit in lieu of 35A/3P shown, connect to circuit EQ-8, 10, 12.

- b. CU-1: Provide 25A/3P and associated connections for condensing unit in lieu of 35A/3P shown, connect to circuit EQ-14, 16, 18. Provide local Nema 3R disconnect switch at unit, control by mechanical contractor.
4. In reference to the lighting fixture schedule, add Type M lighting fixtures to be equal to Fail-Safe #MAG-12-432-UNV-KSH25-EB81-AM.

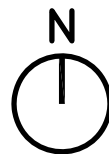
END OF ADDENDUM

1. EXISTING CEILING AND LIGHTS TO BE REMOVED IN THERE ENTIRETY TO BE REPLACED WITH NEW. REMOVE AND REINSTALL ALL OTHER CEILING MOUNTED ITEMS.
2. REMOVE/REINSTALL ELECTRICAL ITEMS AS NECESSARY FOR MECHANICAL EQUIPMENT INSTALLATION.



**DEMO FIRST FLOOR PLAN
- ELECTRICAL**

SCALE 0 4 8 12 16



**DEMO SECOND FLOOR
PLAN - ELECTRICAL**

SCALE 0 4 8 12 16



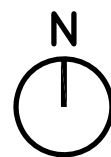
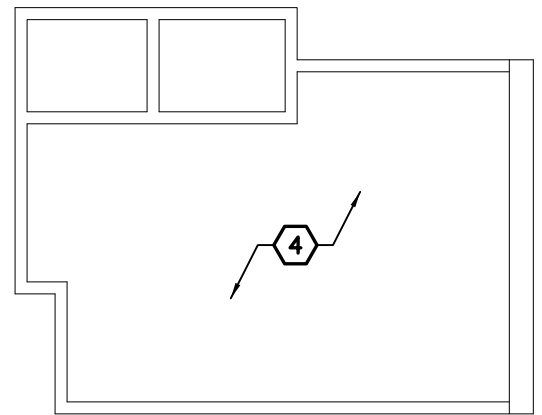
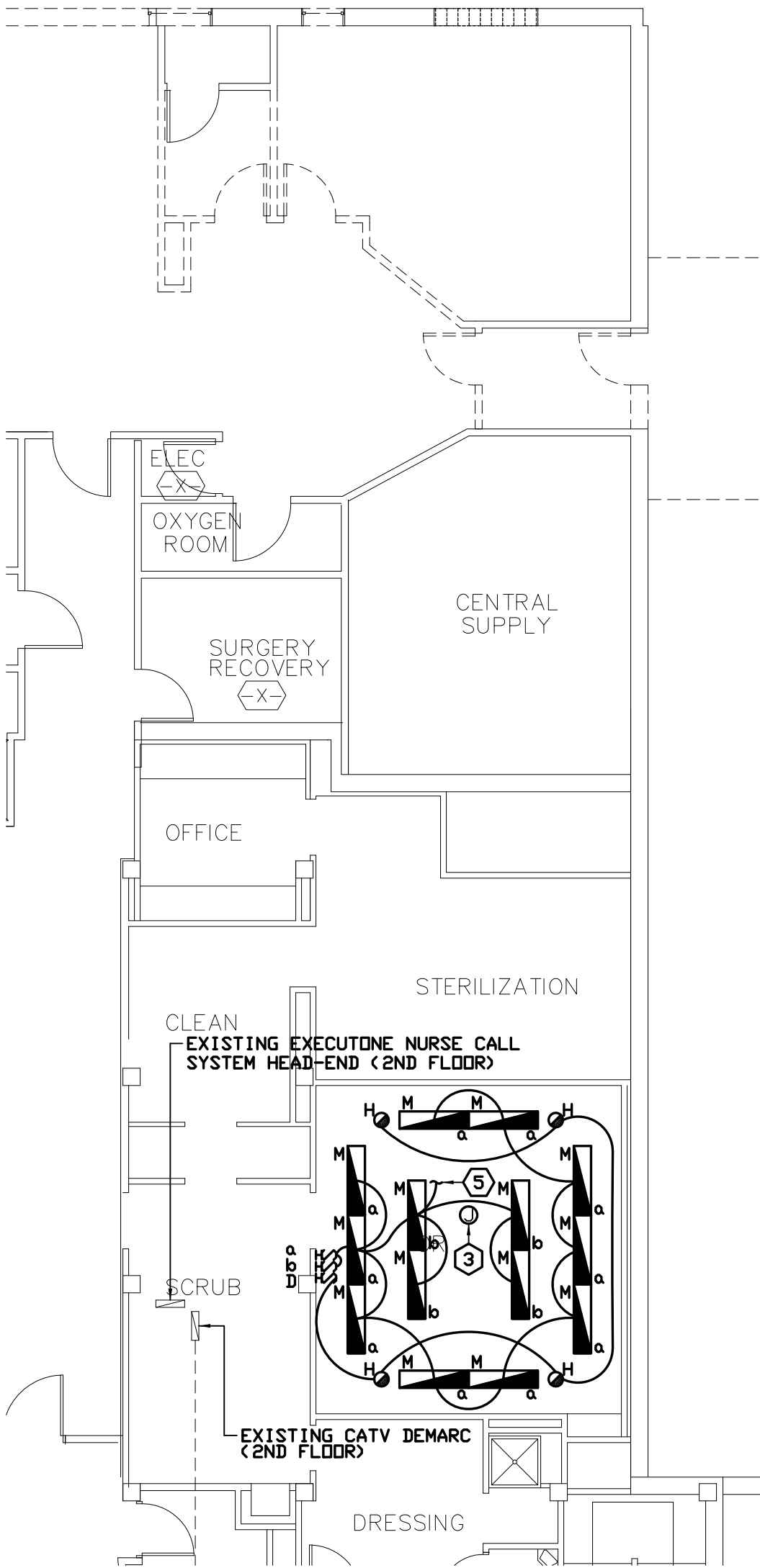
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SHEET
RE-1
1 OF 3

3. DISCONNECT/RECONNECT SURGERY LIGHT AS REQUIRED FOR CEILING INSTALLATION.
4. ADJUST EXISTING ELECTRICAL INSTALLATIONS TO ACCOMMODATE MECHANICAL SYSTEMS INSTALLATIONS.
5. RECONNECT TO EXISTING CRITICAL BRANCH CIRCUIT MADE SPARE DURING DEMO.



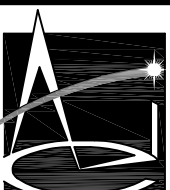
**SECOND FLOOR PLAN
- ELECTRICAL**

SCALE 0 4 8 12 16



**FIRST FLOOR PLAN
- ELECTRICAL**

SCALE 0 4 8 12 16

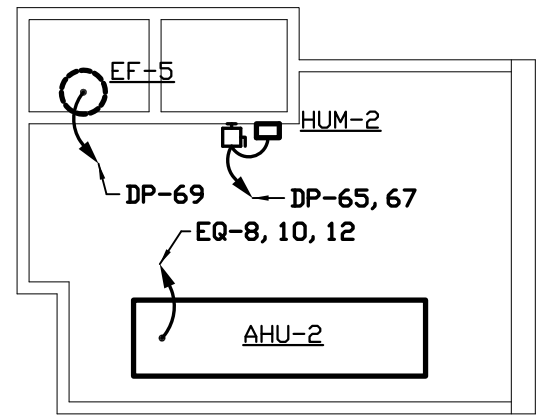
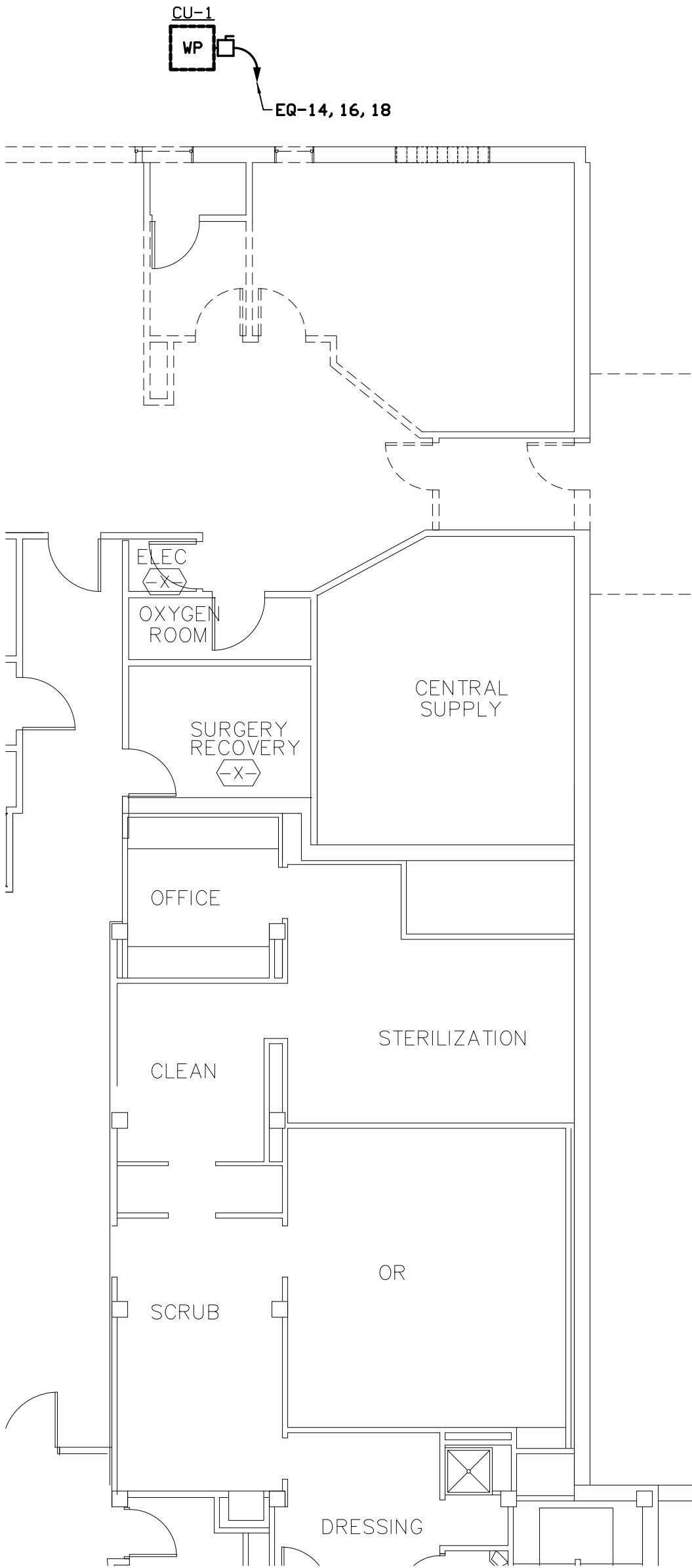


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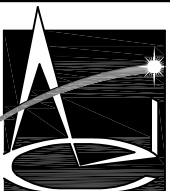
PROJECT NO. 113047	SHEET RE-2
DATE 5-1-14	
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A. DISCONNECT EXISTING AHU PREVIOUSLY SERVING O.R., COORDINATE WITH MECHANICAL CONTRACTORS.



FIRST FLOOR PLAN
- ELECTRICAL
 SCALE 0 4 8 12 16

SECOND FLOOR PLAN
- ELECTRICAL
 SCALE 0 4 8 12 16



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DATE 5-1-14	
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