

**MADISON AND WAHSINGTON ELEMENTARY SCHOOL ADDITION & RENOVATION  
HURON SCHOOL DISTRICT 2-2  
HURON, SOUTH DAKOTA**

KOCH HAZARD ARCHITECTS

ADDENDUM DATE: March 12, 2014

BID DATE: Tuesday, March 20, 2014, 2:00 PM @ Instructional Planning Center, Huron School District 2-2

**SCOPE OF THIS ADDENDUM:**

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

The bidder shall note receipt and make acknowledgement of this addendum on his bid form, incorporating its provisions in his bid.

Addendum issued to all Prime Contract Bidders and to all others to whom Drawings and Project Manuals have been issued by the Architect or Contractor.

**ADDENDUM-1**

**ITEM NO. 1: LAST ADDENDUM WILL BE ISSUED TUESDAY, MARCH 18, 2014.**

**ITEM NO. 2: PLANHOLDERS LIST**

1. See attached.

**ITEM NO. 3: PREBID MEETING**

1. See attached pre-bid meeting minutes and sign-in sheet.

**ITEM NO. 4: LIQUIDATED DAMAGES**

1. Should the project be constructed by one contractor the specified liquidated damages will be assessed for each buildings as if they are two separate projects.

**ITEM NO. 5: BID FORM**

1. Remove existing bid form and replace with the attached revise bid form dated 03-12-14.
2. Contractors can bid either one building alone, bid both buildings separately or provide one combined bid for both buildings. They may also bid Alternate #1M without bidding Madison Elementary Base Bid.

**ITEM NO. 6: FACSIMILE MODIFICATION BID FORM**

1. The Owner will be excepting faxed modification bids.
2. Owner fax number 605-353-6994.
3. Bidders submitting a FAX modification needs to keep in mind that the Owner has only one FAX machine available to receive facsimile modifications. The Owner cannot and does not guarantee that this one FAX machine will be available during the last few minutes before bid opening. Bidders assume the risk that the Owner will not receive last minute FAX modifications before the time set for the opening of bids. The Owner will not accept any FAX modification received in its offices after the time set for the opening of bids.
4. Attached is the facsimile modification bid form dated 03-12-14.

**ITEM NO. 7: SECTION 012100 ALLOWANCES**

1. 3.3; add:

C. Allowance No. 2 Washington: The electrical contractor shall include a contractor's cost allowance for utility charges associated with the utility work. The allowance shall be \$15,000.

**ITEM NO. 8: SECTION 012300 ALTERNATES**

1. Add attached Section 012300 Alternates.

**ITEM NO.9: SECTION 013300 SUBMITTAL PROCEDURES**

1. 1.4, C. add the following: Submittal Exchange will be set-up for each building.

**ITEM NO. 10: SECTION 042000 UNIT MASONRY**

- 1. 2.4, B., 5. add the following:
  - a. Color and Texture – Madison Elementary;
    - i. Special Blend; 45% Red 25% Granite Red, 20% Brownstone & 10% Mt. Shadow.
  - b. Color and Texture – Washington Elementary;
    - i. Match Cloud Ceramics, item - Driftwood Grey, texture Velour.

**ITEM NO11: SECTION 087100 DOOR HARDWARE**

- 1. Hardware set W30 add the following:
  - a. 2 EA Gasketing 5050B-18" NG

**ITEM NO. 12: SECTION 329400 SITE FURNISHINGS**

1. 2.3, B.; change to read: Model No.: TenderTuff Coated Bench #141683C, 6"-0" w/o Back, Direct bury.

**MADISON DRAWINGS**

**ITEM NO. 13: DRAWING C1.1**

- 1. SDN Communications has a communication vault located on the north side of the west entry. SDN Communications will schedule to have the vault removed. The electrical contractor shall coordinate with SDN Communications to install a new conduit to be stubbed out underneath the existing communication vault by the sidewalk back to the building.
- 2. Contractor shall contact SDN Communications prior to start of work.
  - a. Contact Chris Haiar @ 605-999-3969.

**ITEM NO. 14: DRAWING C1.8**

1. See attached Revised Drawing C1.8 for revisions to the playground area.

**ITEM NO. 15: DRAWING C1.9**

1. See attached Revised Drawing C1.9 for revised details.

**ITEM NO. 16: DRAWING A2.1**

1. Door Schedule; change hardware group for doors 151, 152A, 154 & 156 to M24 in lieu of M6.

## **WASHINGTON DRAWINGS**

### **ITEM NO. 17: WASHINGTON BRICK REPLACEMENT**

1. See attached picture of the area where the contractor shall replace some existing brick. This is on the east side of the building on the north wing.

### **ITEM NO. 18: DRAWING C1.1**

1. The trees indicated to be removed on the north side of the building will only be removed if Alternate No. 1W is accepted.
2. See attached Drawing ADD-1 C1.1 for trees scheduled to remain.
3. SDN Communications has a communication vault located on the north side of the east entry. SDN Communications will schedule to have the vault removed. The electrical contractor shall coordinate with SDN Communications to install a new conduit to be stubbed out underneath the existing communication vault by the sidewalk back to the building.
4. Contractor shall contact SDN Communications prior to start of work.
  - a. Contact Chris Haiar @ 605-999-3969.

### **ITEM NO. 19: DRAWING C1.5**

1. The parking area on the north side of the building will only be completed if Alternate No. 1W is accepted.

### **ITEM NO. 20: DRAWING C1.7**

1. Add the following behind Staff Parking & School Bus Drop-off Area – **Alternate No. 1W**.

### **ITEM NO. 21: DRAWING C1.8**

1. See attached Revised Drawing C1.8 for revisions to the playground area, fence and concrete area.

### **ITEM NO. 22: DRAWING C1.9**

2. See attached Revised Drawing C1.9 for revised details.

### **ITEM NO. 23: DRAWING A1.3**

1. Room 141 Band/Orchestra, Room Finish Box; change room height to 13'-0" in lieu of 11'-6".
2. Detail 9 Band/Orch Elevation - revised elevation Drawing ADD-1, A1.3 attached.

### **ITEM NO. 24: DRAWING 2.1**

1. Door Schedule: change the following:
  - a. Doors 107 & 108 to 90 min rating in lieu of 20 min rating.
  - b. Doors 107, 108, 112, 113, 114, 116, 117, 118, 129, 165, 187, 189 & 191 to hardware group W24 in lieu of W6.
  - c. Doors 167, 184 & 185 add 90 min rating.
  - d. Doors 160B & 160C add 20 min rating.

### **ITEM NO. 25: SUBJECT TO COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND PROJECT MANUAL, THE FOLLOWING PRODUCTS AND EQUIPMENT ARE APPROVED FOR USE IN THE PROJECT:**

<b>SECTION</b>	<b>ITEM</b>	<b>MANUFACTURER</b>
Division 05 064023	Supplier Casework	P&M Steel Company. Stevens Advantage

075323	Membrane Roofing
084113	Auto Openers
098433	Sound Absorbing Wall Units
116623	Gymnasium Equipment
116653	Gymnasium Curtain Dividers
329300	Pour Surfacing
	Loose Fill Safety Surface
329400	Play Equipment

Mulehide Products Co., Inc.  
Stanley Magic Force  
Lamvin, Inc. Sonic III  
Acoustical Wall Panels  
Arizona Courtlines, Inc.  
Arizona Courtlines, Inc.  
SurfaceMax  
SurfaceMax  
Play & Park Structures

**ITEM NO. 26: DRAWING NO. S2.3 ROOF FRAMING PLAN – AREA B**

1. Refer to clouded notes on Structural Attachment SSD-1.

**ITEM NO. 27: MECHANICAL ADDENDUM**

1. Mechanical Addendum is attached.

**ITEM NO. 28: ELECTRICAL ADDENDUM**

1. Electrical Addendum is attached.

END OF ADDENDUM-1

## Project Team

PROJECT: Madison and Washington Elem

MANAGER:

PREPARED BY: Tony Taylor

DATE: 3/12/2014

Type	Subscription	Name	Email Address	Discipline	Company	Company Role	Work Phone	Fax Number	City	State	Zip	Permission Set
External Contact	Unsubscribed	Greg Hannestad	greg@seasd.com	Structural	Structural Engineering Associates	--	605-334-0188	605-334-1669	Sioux Falls	SD	57103	External User
External Contact	Unsubscribed	Rob Maher	robmaher@seasd.com	Structural	Structural Engineering Associates	--	605-334-0188	605-334-1669	Sioux Falls	SD	57103	External User
External Contact	Unsubscribed	Steve Pelzl	twincityrf@midco.net	Roofing Contractor	Twin City Roofing	--	605-225-5932	605-225-5938	Aberdeen	South Dakota	57401	External User
External Contact	Unsubscribed	Cadd Engineering	joe@repro360.com	Printing	CADD Engineering	--	605-332-2550		Sioux Falls	SD	57106	External User
External Contact	Unsubscribed	Bill Barthalow	asphaltpaving@midconetwork.com	Paving	Asphalt Paving	--	605-352-3502		Huron	SD	57350	External User
External Contact	Unsubscribed	Kelly Christopherson	kelly.christopherson@k12.sd.us	Owner/Operator	Huron School District 2-2	--	605-353-6995		Huron	SD	57350-0949	External User
External Contact	Unsubscribed	Paul Merriman	paul.merriman@state.sd.us	Owner/Operator	State of South Dakota	--	605-773-3562	605-773-6631	Pierre	SD	57501	External User
External Contact	Unsubscribed	Roger Bell	insp.huronsd@midconetwork.com	Owner/Operator	Huron Dept. of Health	--	605-353-7135		Huron	SD	57350	External User
External Contact	Unsubscribed	Custom Sheet Metal	forereuer@aol.com	Other	Custom Sheet Metal	--	605-225-6560	605-225-6595	Aberdeen	SD	57401	External User
External Contact	Unsubscribed	Jesse Wolfe	jesse@foxdrywall.com	Other	Fox Drywall & Plastering, Inc.	--	605-368-5557	605-368-5572	Tea	SD	57064	External User
External Contact	Unsubscribed	Jim Pfaltzgraff	jim.pfaltzgraff@submitalexchange.com	Other	Submittal Exchange	--	800-714-0024 ext 267		Des Moines	IA	50309	External User
External Contact	Unsubscribed	Roger Schneider	roger.schneider@schoolspecialty.com	Other	School Specialty	--	800-305-0174 ext. 1671		Mansfield	Ohio	44903	External User
External Contact	Unsubscribed	Brad Shoup	bshoup@aceinet.com	Mechanical, Electrical	Associated Consulting Engineering	--	605-357-4775	605-335-6220	Sioux Falls	SD	57104	External User
External Contact	Unsubscribed	Matt Haugan	mhaugan@aceinet.com	Mechanical, Electrical	Associated Consulting Engineering	--	605-335-3720		Sioux Falls	SD	57104	External User
External Contact	Unsubscribed	Michele deWit	mdewit@aceinet.com	Mechanical, Electrical	Associated Consulting Engineering	--	605-357-4769	605-335-6220	Sioux Falls	SD	57104	External User
External Contact	Unsubscribed	Nick Hunt	nhunt@aceinet.com	Mechanical, Electrical	Associated Consulting Engineering	--	605-357-4770		Sioux Falls	SD	57104	External User
External Contact	Unsubscribed	Roger Schroeder	ssmasonry@hcinet.net	Masonry	S & S Masonry	--	605-384-4545	605-384-4224	Wagner	SD	57380	External User
External Contact	Unsubscribed	Marc Mebius	marcmebius@hotmail.com	Landscape	Mebius Nursery	--	605-996-9198	605-996-9199	Mitchell	SD	57301	External User
External Contact	Unsubscribed	Active Heating Inc.	jasonr@activeheatinginc.com	HVAC	Active Heating Inc.	--	605-882-2663	605-882-3325	Watertown	SD	57201	External User
External Contact	Unsubscribed	Chuck Hander	chuckh@hander.com	HVAC	Hander Plumbing & Heating, Inc.	--	605-339-9633		Sioux Falls	SD	57104	External User
External Contact	Unsubscribed	Curt Kempf	curtshvac@midconetwork.com	HVAC	Curt's Heating & Cooling	--	605-352-5316		Huron	SD	57350	External User
External Contact	Unsubscribed	Alan Breck	abreck@henrycarlson.com	General Contractor	Henry Carlson Company	--	605-336-2410	605-332-1314	Sioux Falls	SD	57104	External User
External Contact	Unsubscribed	Gray Construction	dustin@grayconstruction.com	General Contractor	Gray Construction	--	605-886-3102	605-886-7139	Watertown	SD	57201	External User

Type	Subscription	Name	Email Address	Discipline	Company	Company Role	Work Phone	Fax Number	City	State	Zip	Permission Set
External Contact	Unsubscribed	Jack Hollinsworth	jhollinsworth@jdhconstruction.biz	General Contractor	JDH Construction	--	605-725-0050	605-725-0049	Aberdeen	SD	57402	External User
External Contact	Unsubscribed	JDH Construction	rjarvis@jdhconstruction.biz	General Contractor	JDH Construction	--	605-725-0050		Aberdeen	SD	57401	External User
External Contact	Unsubscribed	Kevin Bender	benderkevin@welfl.com	General Contractor	Welfl Construction Corporation	--	605-665-3258	605-665-9384	Yankton	SD	57078	External User
External Contact	Unsubscribed	O.L. Bussmus	olbconstruction@santel.net	General Contractor	O.L. Bussmus Construction Inc.	--	605-996-4906	605-996-2771	Mitchell	SD	57301	External User
External Contact	Unsubscribed	Paula Alexander	paula@sharpe-ent.com	General Contractor	Sharpe Enterprises, Inc.	--	605-945-1260	605-945-1265	Pierre	SD	57532	External User
External Contact	Unsubscribed	Teryl Kelley	tkelley@swiftconinc.com	General Contractor	Swift Contractors, Inc.	--	605-368-2185	605-368-2194	Sioux Falls	SD	57108	External User
External Contact	Unsubscribed	Todd Running	todd@gilhaugan.com	General Contractor	Gil Haugan Construction	--	605-336-6082	605-336-0051	Sioux Fall	SD	57118	External User
External Contact	Unsubscribed	Wayne Tellinghuisen	waynet@tellinghuisen.com	General Contractor	Tellinghuisen Construction	--	605-625-5469	605-625-5318	Willow Lake	SD	57278	External User
External Contact	Unsubscribed	Erin McGaugh	erin@dakotarestaurantsupply.com	Food Service	Dakota Restaurant Supply	--	605-352-1800	605-352-8059	Huron	SD	57350	External User
External Contact	Unsubscribed	Keith Schumaker	keith.schumacher@cashwa.com	Food Service	Crouch Recreation	--	800-888-2617		Aberdeen	SD	57401	External User
External Contact	Unsubscribed	Tom Vandevort	tomv@isdakota.com	Food Service	Institution Services	--	605-339-3931		Sioux Falls	SD	57104	External User
External Contact	Unsubscribed	Aberdeen Builders Exchange	dakotabuild@midconetwork.com	Exchange	Aberdeen Builders Exchange	--	605-225-4733	605-225-4733	Aberdeen	SD	57401	External User
External Contact	Unsubscribed	Cindy Adams	mbiplanroom-dsm@mbionline.com	Exchange	Master Builders of Iowa	--	515-288-8904	515-288-2617	Des Moines	IA	50309	External User
External Contact	Unsubscribed	Construction Industry Center	cic@constructionindustrycenter.com	Exchange	Construction Industry Center	--	605-343-5252	605-343-4591	Rapid City	SD	577022	External User
External Contact	Unsubscribed	Construction Plans Exchange	cpeinc@midconetwork.com	Exchange	Construction Plans Exchange	--	701-258-4215	701-258-1391	Bismark	ND	58501	External User
External Contact	Unsubscribed	Fargo-Moorhead Exchange	info@fmbx.org	Exchange	Fargo-Moorhead Exchange	--	701-237-6772	701-232-1653	Fargo	ND	58103	External User
External Contact	Unsubscribed	iSqFt. Planroom	AGCMinnesota@iSqFt.com	Exchange	iSqFt Planroom / Franz Reprographics	--	800-364-2059	866-570-8187	Brooklyn Center	MN	55430	External User
External Contact	Unsubscribed	Joanna Dahn	Joanna.dahn@mhfi.com	Exchange	McGraw-Hill Construction	--	651-528-8872	651-528-8892	Hot Springs	AR	71913	External User
External Contact	Unsubscribed	Lincoln Builders Bureau	jessiep@cornhusker.net	Exchange	Lincoln Builders Bureau	--	402-421-8332	402-421-8334	Lincoln	NE	68516	External User
External Contact	Unsubscribed	Lincoln Builders Bureau	michelles@cornhusker.net	Exchange	Lincoln Builders Bureau	--	402-421-8332	402-421-8334	Lincoln	NE	68516	External User
External Contact	Unsubscribed	Minneapolis Builders Exchange	jeffb@mbex.org	Exchange	Minneapolis Builders Exchange	--	612-381-2620	612-381-2621	Minneapolis	MN	55403	External User
External Contact	Unsubscribed	Minneapolis Builders Exchange	rl@mbex.org	Exchange	Minneapolis Builders Exchange	--	612-381-2620	612-381-2621	Minneapolis	MN	55403	External User
External Contact	Unsubscribed	Omaha Builders Exchange	omahaplanroom-obe@mbionline.com	Exchange	Omaha Builders Exchange	--	402-593-6908	402-593-6912	Omaha	NE	68127	External User
External Contact	Unsubscribed	Plains Builders Exchange	info@plainsbuilders.com	Exchange	Plains Builders Exchange	--	605-334-8886	605-334-0112	Sioux Falls	SD	57101	External User
External Contact	Unsubscribed	Reed Construction Data	docprocessing@reedbusiness.com	Exchange	Reed Construction Data	--	763-537-7117	800-303-8629	Norcross	GA	30092	External User
External Contact	Unsubscribed	Sioux City Construction League	SCPlanroom@siouxlanet	Exchange	Sioux City Construction League	--	712-255-9730	712-255-3915	Sioux City	IA	57706	External User
External Contact	Unsubscribed	Sioux Falls Builders Exchange	info@sfbx.com	Exchange	Sioux Falls Builders Exchange	--	605-357-8687	605-357-8655	Sioux Falls	SD	57104	External User

Type	Subscription	Name	Email Address	Discipline	Company	Company Role	Work Phone	Fax Number	City	State	Zip	Permission Set
External Contact	Unsubscribed	Watertown Builders Exchange	watertownbuildersexchange@iw.net	Exchange	Watertown Builders Exchange	--	605-886-4932	605-753-656	Watertown	SD	57201	External User
External Contact	Unsubscribed	Brent Forest	forest_excavating@hotmail.com	Excavator	Forest Excavating	--	605-532-5251	605-532-5391	Clark	SD	57225	External User
External Contact	Unsubscribed	Tim Travis	tdavis.midland@santel.net	Excavator	Midland Contracting Inc.	--	605-352-2400	605-352-9064	Huron	SD	57350	External User
External Contact	Unsubscribed	Leonard Matthaei	matthaei@unitelsd.com	Excavating	Matthaei Excavating	--	605-296-3185	605-296-3785	Canastota	South Dakota	57012	External User
External Contact	Unsubscribed	Clinton	clinton@efraimsonelectric.com	Electrical	Efraimson Electric	--	605-628-2605		Bryant	SD	57221	External User
External Contact	Unsubscribed	Greg Heil	heilelectric@santel.net	Electrical	Heil Electric	--	605-796-4072	605-796-4073	Woonsocket	SD	57385	External User
External Contact	Unsubscribed	Jennifer Yao	jyeo@muthelectric.com	Electrical	Muth Electric	--	605-996-3983	605-996-2203	Mitchell	SD	57301	External User
External Contact	Unsubscribed	Jeremy Coom	jjcoon101@yahoo.com	Electrical	JC Electric	--	605-350-4306		Wolsey	SD	57384	External User
External Contact	Unsubscribed	Josh Dede	josh.dede@efraimsonelectric.com	Electrical	Efraimson Electric	--	605-628-2605		Bryant	SD	57221	External User
External Contact	Unsubscribed	L & S Electric	123lselectric@gmail.com	Electrical	L&S Electric	--	507-723-4875		Springfield	MN	56087	External User
External Contact	Unsubscribed	Larry Giesler	lgiesler@fuldaelectric.com	Electrical	Fulda Electric Service Inc	--	605-582-7669	605-582-7670	Brandon	SD	57005	External User
External Contact	Unsubscribed	Lori Krummer	tkelectric@qwestoffice.net	Electrical	TK Electric	--	605-995-0595	605-995-0435	Mitchell	South Dakota	57301	External User
External Contact	Unsubscribed	Associated Consulting Engineers	acei@aceinet.com	Electrical, Mechanical	ACEI	--	605-335-3720	605-335-6220	Sioux Falls	SD	57104	External User
Internal Contact	Unsubscribed	Andrew Grove	agrove@kochhazard.com	Architectural	Koch Hazard Architects	--	605-782-8734	605-336-0438	Sioux Falls	South Dakota	57104	Internal User
Internal Contact	Unsubscribed	Tony Taylor	ttaylor@kochhazard.com	Architectural	Koch Hazard Architects	--	605-782-8740	605-336-0438	Sioux Falls	South Dakota	57104	Internal User
Internal Contact	Unsubscribed	Trevor VanConant	tvanconant@kochhazard.com	Architectural	Koch Hazard Architects	--	605-782-8722	605-336-0438	Sioux Falls	South Dakota	57104	Internal User
External Contact	Unsubscribed	Cal Muilenburg	calm@santel.net	--	Schoenfelder Construction Inc.	--	605-996-3254		Mitchell	SD	57301	External User
External Contact	Unsubscribed	Tim York	Tim.York@Honeywell.com	--	Honeywell International	--	605-373-3763	605-373-3810	sioux falls	SD	57105	External User
Group	Unsubscribed	Planholders										



Date: 07 March 2014

Project: Madison and Washington Elementary School Addition & Renovation/#1277A  
Huron School District 2-2  
Huron, SD

Subject: Pre-Bid Meeting

Present: Sign In Sheet

To: Plan Holders

1. Introductions were made / Sign In
2. Bid Date: March 20, 2014 @ 2:00 PM CDT at the Instruction Planning Center, Huron School District, 150 5th Street SW, Huron, South Dakota, 57350.
3. Award: TBD
4. Type of contract: Projects will be constructed under either two prime contracts, one for each building, or a single prime contract for both buildings. Contractors can bid either one building alone, bid both buildings separately or provide One combined bid for both buildings.
5. Explanation of Alternate: None
6. Completion Date: August 07, 2015.
  - a. Liquidated Damages: \$1,000.00 per calendar day.
7. Plan Distribution: The Owner will provide the successful contractor with 25 sets of contract documents for their use during construction. Should the contractor require more than the 25 sets it will be the contractor's responsibility to print and/or purchase additional sets at no additional cost to the Owner.
8. Existing Equipment: Verify/coordinate with Owner's equipment. Refer to drawings for Owner Furnished/Contractor Installed (OF/CI) items.
9. **Submittals during the project will be processed using Submittal Exchange. Submittal Exchange will be set-up for each building.**
10. Prior Approvals: Must be turned in by noon Monday, March 17, 2014.
11. Communication during Bidding
  - a) All questions shall be directed to Tony Taylor or Andrew Grove at Koch Hazard Architects.
  - b) Questions – to be formally addressed by addendum only.
  - c) Conversations that are not documented in an addendum or in these minutes attached to the addendum are not part of the Contract Documents.
12. Last Addendum Date: Tuesday, March 18, 2014.
13. No questions will be answered after the last addendum is issued.
14. Site Visit Contact: Rex Sawvell, 605-350-3042
15. Bidder Questions – to be formally addressed by addendum only.
16. Walk-Through

431 North Phillips 200

Sioux Falls, SD 57104

T: 605. 336. 3718

F: 605. 336. 0438

W: kochhazard.com



KOCH • HAZARD  
ARCHITECTS

**SIGN IN SHEET** Prebid Meeting

**Project** Madison/Washington Elementary School Addition/  
#1277A

**Date** 07 March 2014

Name:	Representing:	Phone #	Fax #	E-Mail Address:
Tony Taylor		C 605-940-0710 O 605-782-8740	F 605-336-0348	ttaylor@kochhazard.com
Andrew Grove		O 605-782-8734	F 605-336-0348	agrove@kochhazard.com
Josh Dede		605-595-3216		Josh.Dede@eNaimsonelectric.com
Todd Stickler		605-996-3983		tstickler@muthelectric.com
Todd Running		605-336-6082	605-336-0091	Todd.Running@hangda.com
Nelly Christopherson	Huron School	353-6995		
HENRY CARLSON MADRID ANDERSON KATHLEEN ALLWISSE		605-336-2440	605-332-1314	abreckehenrycarlson.com
KEN BALAMAN		605-996-2052		ken@Krohneplumbing.com
Greg Heil		605-796-4072 605-796-4073	605-796-4073	heikelectric@santel.net
Tim Davis		605-352-2400	605-352-9064	midland@santel.net
Kevin Bender		605-665-3258	605-665-9384	benderkevin@nelson.com
Jeremiah Kambel Dove Highley		605-360-9796	605-766-5293	dhigley@iw.net
Norm deWit		335-7726	335-6220	ndewit@accinet.net
Brad Shoup		"	"	"
TRAVIS HARTMAN		339-9533		travis@hander.com
Terry Nohelsick		354-2050		Terry.Nohelsick@krosh.com
Heather Rozell				heather.rozell@krosh.com
Wayne Tellinghuisen		605-625-5469	625-5313	WayneT@Tellinghuisen.com



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ARCHITECTS

**SIGN IN SHEET** Prebid Meeting

**Project** Madison/Washington Elementary School Addition/  
#1277A

**Date** 07 March 2014

**Name:**

**Representing:**

**Phone #**

**Fax #**

**E-Mail Address:**

Cal Mui/enburg

Scherfellow Constructors  
996-3254 | 996-3254

calm@santel.net

Scott Gillen

Custom Shedd Metal Inc.  
225-6560

sg.gustansm@gmail.com

Todd Williams

Sharpe Inc.

MADISON AND WAHSINGTON ELEMENTARY SCHOOL ADDITION & RENOVATION  
HURON SCHOOL DISTRICT 2-2  
HURON, SOUTH DAKOTA

BID FORM  
(Prime Contract Work)

To: Huron School District 2-2  
150 5<sup>TH</sup> Street SW  
Huron, South Dakota 57350

Date \_\_\_\_\_

The undersigned, having familiarized (himself) (itself) with the local conditions affecting the cost of the Work at the place where Work is to be done, and with Drawings, Project Manual, Addenda, Instructions to Bidders, AIA General Conditions, Supplementary Conditions and other Contract Documents which govern the purchase of materials, labor, and awarding of contracts; having examined the location of the proposed Work, hereby proposes and agrees to perform everything required to be performed, and to provide any and all labor, materials, equipment, tools and plant necessary to complete, in a workmanship like manner, all Work required to complete the following Contract Work:

PRIME CONTRACT WORK  
(Includes General, Mechanical and Electrical Contract Work)

for the Madison and Washington Elementary School Addition & Renovation, Huron School District 2-2, Huron, South Dakota; Project No. 1277A; all in strict conformance with Drawings and Project Manual prepared by Koch Hazard Architects, 431 North Phillips Avenue, Suite 200, Sioux Falls, South Dakota; dated 19 February 2014 for the following BASE BID and UNIT PRICES:

BASE BID MADISON ELEMENTARY SCHOOL \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

BASE BID WASHINGTON ELEMENTARY SCHOOL \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

BASE BID COMBINED SCHOOLS \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

ALTERNATES  
(See SECTION 012300- ALTERNATES)

ALTERNATE # 1W: (Staff Parking & School Bus Drop Off)

ADD to Washington Elementary BASE BID the sum of \_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_).

ALTERNATE # 1M: (Extended Completion Date)

DEDUCT from Madison Elementary BASE BID the sum of \_\_\_\_\_

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_.)

UNIT PRICES  
(See SECTION 012200- UNIT PRICES)

For changing quantities of work items from those indicated by the contract drawings upon written instructions from the Owner the following unit prices shall prevail:

UNIT PRICE	SCHEDULED ITEM	UNIT OF MEASURE	UNIT PRICE ADD
NO. 1.	Earth Excavation	Cu. Yd. (Hand)	\$ _____
NO. 2.	Earth Excavation	Cu. Yd. (Machine)	\$ _____
NO. 3.	Compacted Fill Material in Place	Cu. Yd.	\$ _____

Note: Unit prices quoted on "Compacted Fill Material In Place" shall be the actual physical dimensions of any extra space excavated or any less space excavated. The shrinkage shall already be figured into the quoted price.

The above unit prices shall include all labor, materials, material testing, compaction testing, baling, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for. Change shall be processed in accordance with Article 7 of the General Conditions AIA Document A201.

Should the undersigned be required to perform work over and above that required by the Contract Documents, or should he be ordered to omit work required by Contract Documents, he will be paid an extra, or shall credit the Owner, as the case may be, on the basis of unit prices quoted herein, prices quoted being sum total compensation payable or credit-labor for such items of work.

The Owner also reserves the unrestricted privilege to reject any unit prices for addition or deduction from the scheduled amounts of work as given in the proposal, if the same are considered excessive or unreasonable, or to accept by including the same in the contract as unit prices applicable in the event of addition to or deduction from the work to be performed under the contract, any or all such unit prices which may be considered fair and reasonable.

Amounts shall be shown in both words and figures where applicable. In case of discrepancy, the amount in words will govern.

The foregoing Proposal includes all applicable State and Municipal Sales and Use Taxes on materials, and State and Municipal Excise Taxes and all other State and Federal Taxes that would affect the amount of the proposal. Realty improvement Contractor's excise tax shall be included, if applicable.

The cost of Performance Bond and Labor and Material Payment Bond, each in the amount equal to 100% of the total contract amount, is included in this Proposal.

Within ten (10) days after Contractor's receipt of the signed STANDARD FORM OF AGREEMENT BETWEEN CONTRACTOR AND OWNER, the Contractor shall submit to the Office of the Architect, the PERFORMANCE BOND, LABOR/MATERIAL PAYMENT BOND and CERTIFICATES OF INSURANCE as required and specified.

Construction Schedule:

Work shall be commenced within TEN (10) days after written NOTICE TO PROCEED and shall be completed on or before:

FRIDAY, AUGUST 07, 2015
-------------------------

The undersigned hereby acknowledges receipt of the following Addenda to the Drawings and/or Project Manual (Give number and date of each).

Time is an essential element of the contract. It is important that the work be pressed vigorously to completion. The cost to the School District of the administration of the Contract, including architectural, engineering, inspection, and supervision, will be increased as the time occupied in the work is lengthened.

Should the Contractor fail to substantially complete the work within the time set forth herein or within such extra time as may have been allowed by increases in the contract time or by formally approved extensions granted by the Owner, the Contractor and the Contractor's surety shall be liable for and shall pay the Owner \$1,000.00 per calendar day as liquidated damages for each calendar day of delay until the work is substantially complete.

Permitting the Contractor to continue and complete the work covered by the terms of the contract after the expiration of the working time provided for therein and inclusive of any extensions granted, shall in no way be construed as a waiver by the Owner of its rights under the contract.

Addenda Nos: \_\_\_\_\_

dated \_\_\_\_\_ respectively.

The undersigned acknowledges that they have read and understand the Asbestos-Containing Materials Statement contained in the project manual.

Accompanying this Proposal is a Certified Check, a Cashier's Check or Draft for five percent (5%) of the amount of the bid, (including "add" alternates), such Check or Draft to be certified or issued by either a State or National Bank, and payable to the School District, or in lieu thereof, a Bid Bond for ten percent (10%) of the amount of the bid, such Bond to be issued by a Surety authorized to do business in this state and payable to the School District. Said Certified Check, Cashier's Check, Draft or Bid Bond guarantees the execution of a Contract and shall be held by the School District until said Contract is executed. (SDCL 5-18-6 and 13-20-7)

In submitting this Proposal, it is understood that the right is reserved by the Owner to reject any and all bids or parts thereof, and to waive any irregularities.

It is further understood by the Bidder that he may not withdraw his Bid within thirty (30) days after the actual bid opening thereof.

BIDDER \_\_\_\_\_

BY & TITLE \_\_\_\_\_

\_\_\_\_\_  
(Signature in ink)

TELEPHONE NO. \_\_\_\_\_

BUSINESS ADDRESS \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

STATE OF INCORPORATION \_\_\_\_\_

Contractor's Note: Manual signature, written in ink, is required.

END OF BID FORM

MADISON AND WAHSINGTON ELEMENTARY SCHOOL ADDITION & RENOVATION  
HURON SCHOOL DISTRICT 2-2  
HURON, SOUTH DAKOTA

FACSIMILE MODIFICATION  
To Bid Form

To: Huron School District 2-2  
150 5<sup>TH</sup> Street SW  
Huron, South Dakota 57350

Date \_\_\_\_\_  
Fax 605-353-6994

Please make the following modifications to our bid on the referenced project.

Note To Bidder: Please circle the appropriate ADD/DEDUCT and "X" out the undesired action.

Modification to Base Bid Madison Elementary School – ADD/DEDUCT to our Base Bid the Sum of

\_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

Modification to Base Bid Washington Elementary School – ADD/DEDUCT to our Base Bid the Sum of

\_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

Modification to Base Bid Combined Schools – ADD/DEDUCT to our Base Bid the Sum of

\_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

ALTERNATES

(See SECTION 012300- ALTERNATES)

Modification to Alternate #1W - ADD / DEDUCT to our Alternate #1W Bid the Sum of

\_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

Modification to Alternate #1M - ADD / DEDUCT to our Alternate #1M Bid the Sum of

\_\_\_\_\_  
\_\_\_\_\_ Dollars (\$\_\_\_\_\_).

UNIT PRICES  
(See SECTION 012200- UNIT PRICES)

UNIT PRICES MODIFICATION

UNIT PRICE 1.ADD / DEDUCT \_\_\_\_\_ DOLLARS(\$ \_\_\_\_\_ )

UNIT PRICE 2.ADD / DEDUCT \_\_\_\_\_ DOLLARS(\$ \_\_\_\_\_ )

UNIT PRICE 3.ADD / DEDUCT \_\_\_\_\_ DOLLARS(\$ \_\_\_\_\_ )

In submitting this facsimile modification bid, it is understood that the right is reserved by the Owner to reject any and all bids and to waive any irregularities. It is further understood by the Bidder that he may not withdraw his Bid within 30 days after the actual opening thereof.

BIDDER \_\_\_\_\_

BY & TITLE \_\_\_\_\_

\_\_\_\_\_  
(Signature in ink)

TELEPHONE NO. \_\_\_\_\_

BUSINESS ADDRESS \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

STATE OF INCORPORATION \_\_\_\_\_

Contractor's Note: Manual signature, written in ink, is required.

END OF BID FORM

## SECTION 012300 - ALTERNATES

### 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. This Section includes administrative and procedural requirements for alternates.

#### 1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
  - 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

#### 1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
  - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. Alternate No.1W: (Staff Paring & School Bus Drop Off)

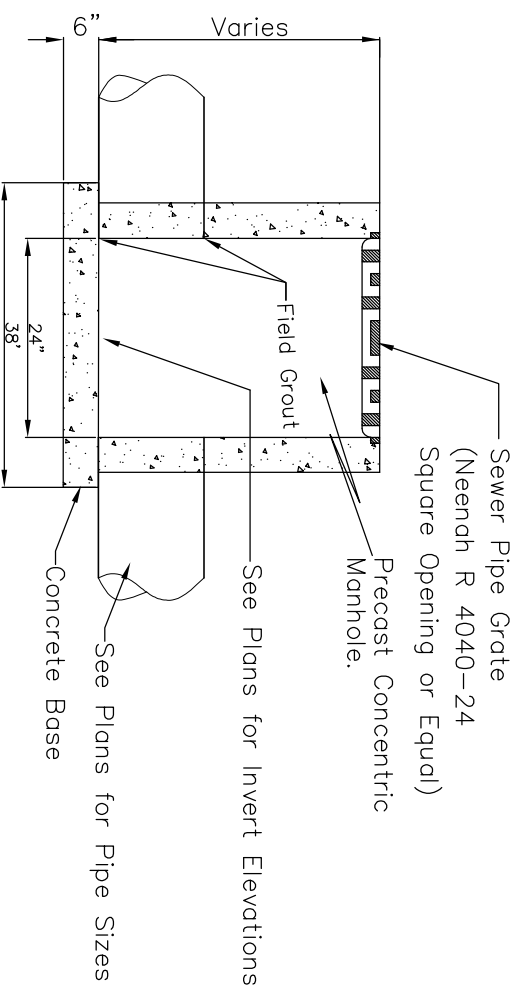
1. Under this Alternate, state the amount to be ADDED to the BASE BID for the following:
  - a. Contractor shall provide all material and labor to provide Staff Parking & School Bus Drop Off as Specified and as shown on Drawing C1.7.

B. Alternate No.1M: (Extended Completion Date)

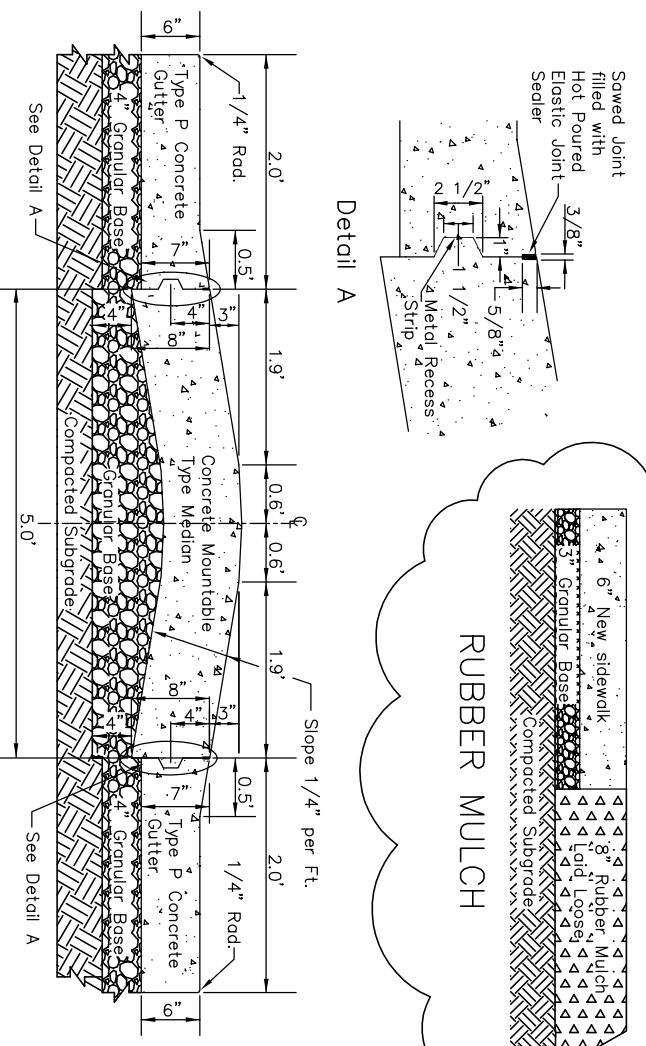
1. Under this Alternate, state the amount to be DEDUCTED from the BASE BID for the following:
  - a. Contractor shall deduct from the base bid for extending the final completion date to December 11, 2015 based on the following schedule:
    - i. Work that must be completed by August 07, 2014 includes:
      - ii. Rooms 142 Cashier, 143 Chemical Storage, 1444 Hall, 145 Kitchen & 146 Kitchen Storage.
      - iii. Restrooms 138 & 140 and Custodial Room 139.
      - iv. Mechanical penthouse above stage.
      - v. New boilers & pumps in Room 141.
      - vi. Piping above ceiling in Room 151 (ceiling tile can be installed in summer 2015 if necessary.)
    - b. The mechanical contractors shall be responsible for any temporary piping, ductwork, valves, etc. to match the general contractor's proposed phasing.
    - c. The electrical contractor shall be responsible for any temporary lighting, wiring, etc.. to match the general contractor's proposed phasing.
    - d. Site work and new construction can be completed during the school year.
    - e. The Owner will vacate the existing classrooms after the 2014-2015 school year so the contractor can complete the required remodel work.

END OF SECTION 012300

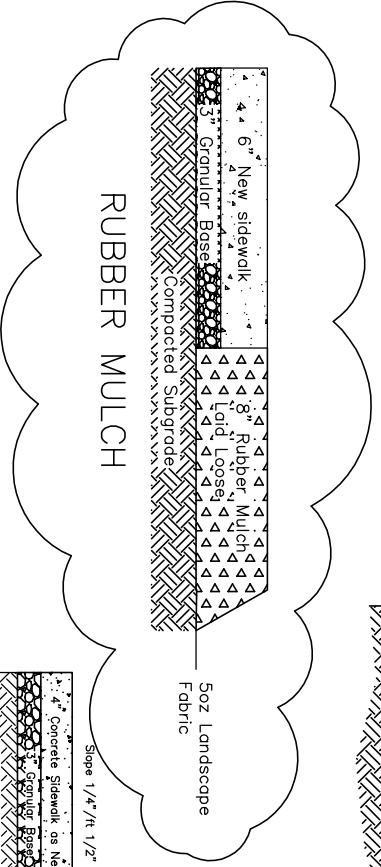




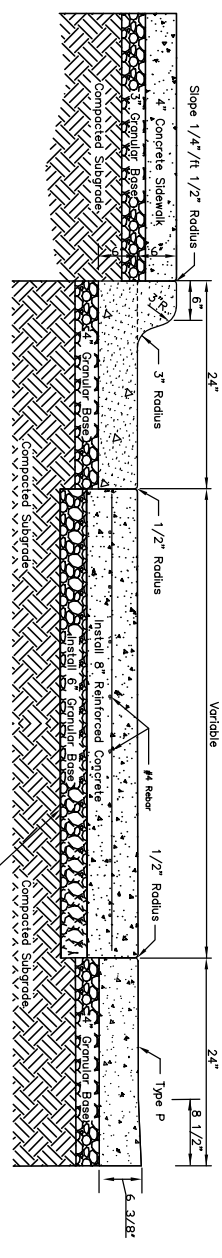
DROP INLET DETAIL



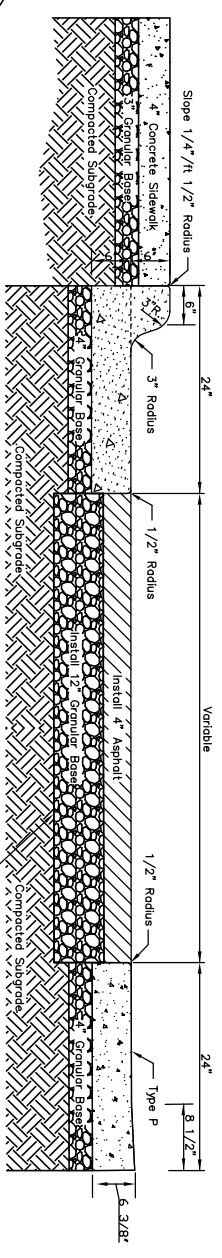
TYPICAL SECTION FOR TYPE P CONCRETE GUTTER & MOUNTABLE TYPE MEDIAN PCC PAVEMENT



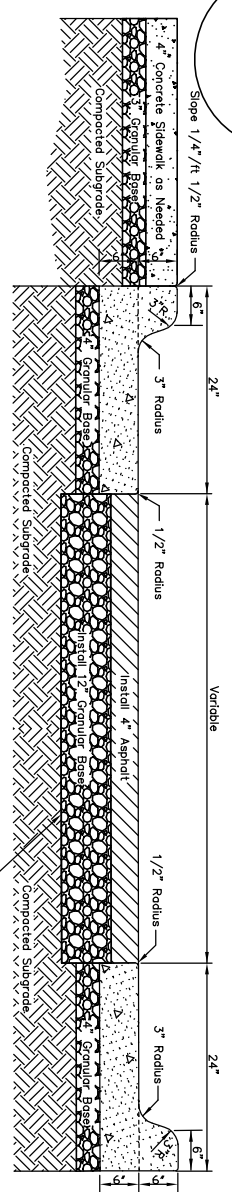
RUBBER MULCH



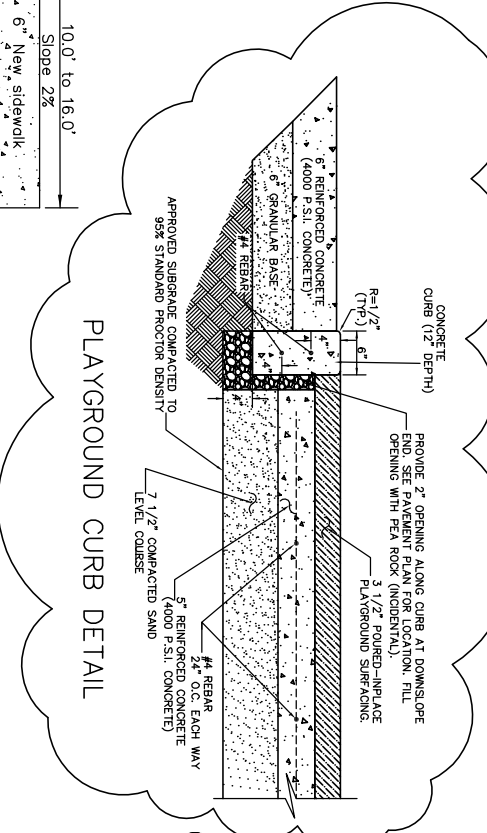
TYPICAL SECTION FOR CONCRETE CURB & GUTTER, & BUS PARKING  
#4 Rebar 18" O.C. eachway  
(4000 p.s.i. Concrete)



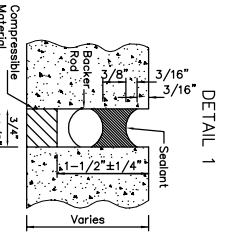
TYPICAL SECTION FOR CONCRETE CURB & GUTTER, ASPHALT PARENT DROP-OFF PARKING



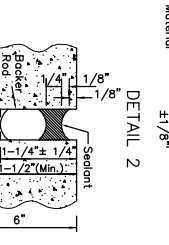
TYPICAL SECTION FOR CONCRETE CURB & GUTTER, ASPHALT PAVING



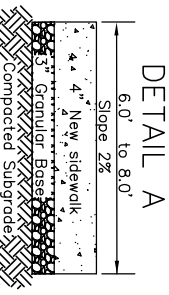
PLAYGROUND CURB DETAIL



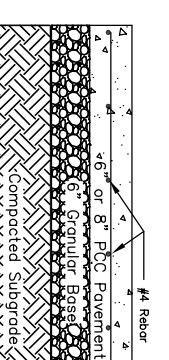
JOINT SEALANT DETAILS



CONCRETE JOINT DETAILS



DETAIL A



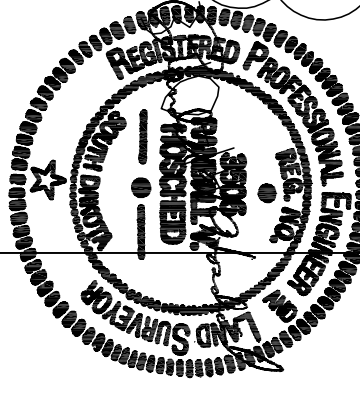
DETAIL B

TYPICAL SECTION FOR CONCRETE SIDEWALK  
(4000 p.s.i. Concrete)

TYPICAL SECTION FOR REINFORCED PCC PAVEMENT  
#4 Rebar 18" O.C. eachway  
(4000 p.s.i. Concrete)

CONCRETE JOINT DETAILS  
NOT TO SCALE

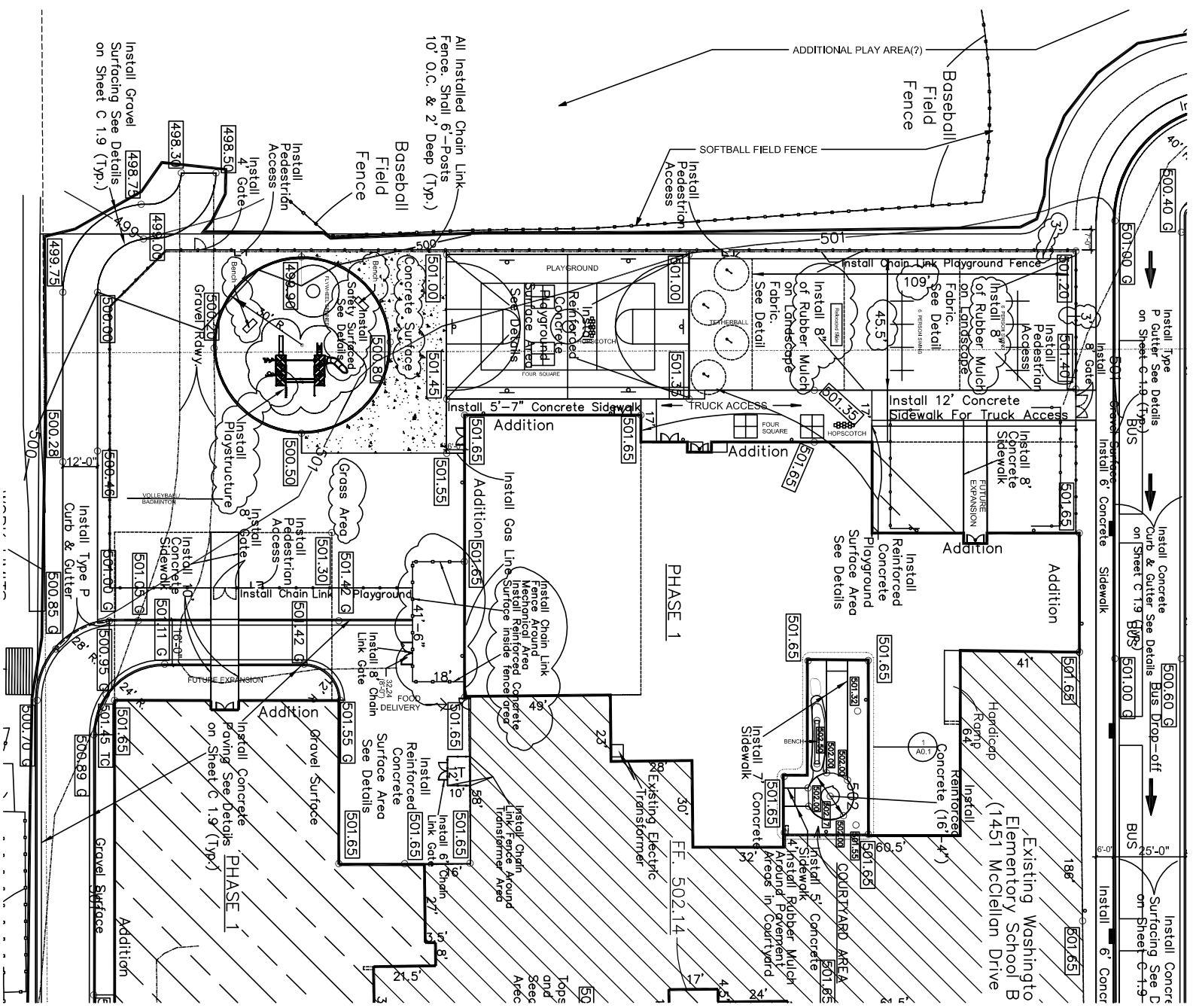
All breakaway sign supports comply with FHWA NCHRP 350 crash-worthy requirements. The Contractor shall provide post installation details at the preconstruction meeting for all steel post breakaway sign support assemblies.



PROJECT NO.: 1278  
DATE: 3/10/14  
DRAWN BY: DMG  
CHECKED BY: CPH/MLT  
PROJECT: MADISON ELEMENTARY SCHOOL, SITE PHASE II  
SHEET TITLE: DRIVEWAY, GUTTER, SIDEWALK & ASPHALT PAVING & SCHOOL SIGN  
HIRON SCHOOL DISTRICT  
PRELIMINARY NOT FOR CONSTRUCTION  
C 1.9

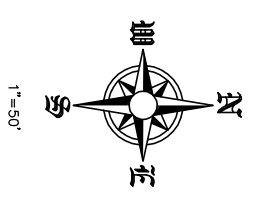
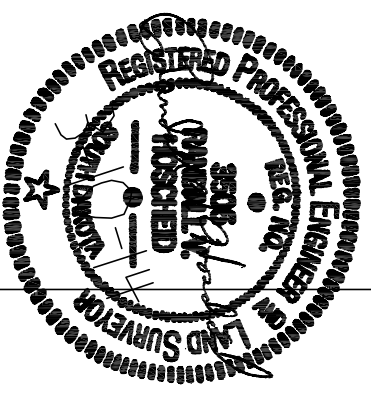






Specification Notes:

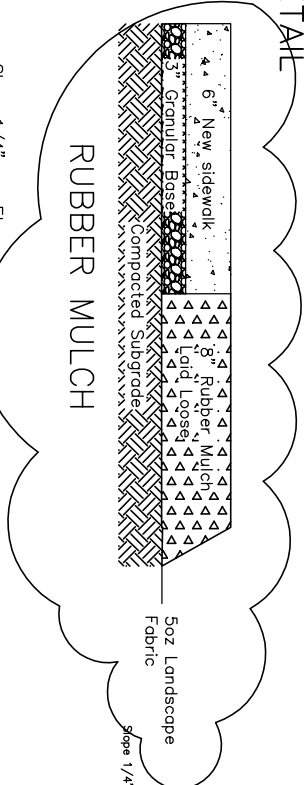
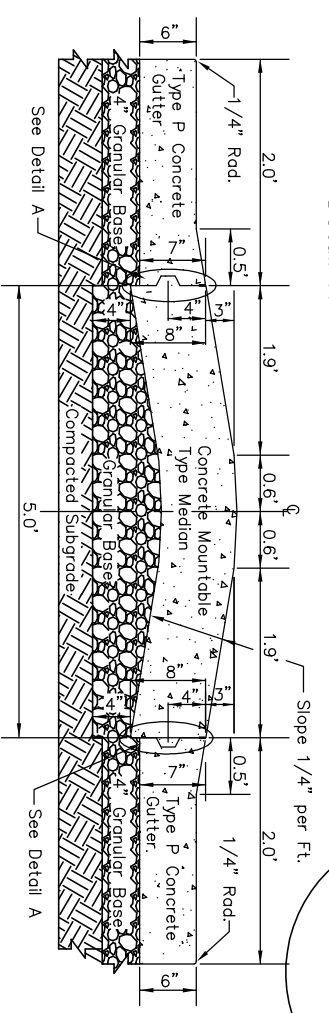
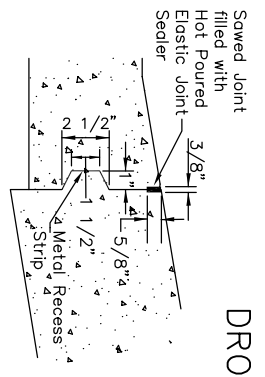
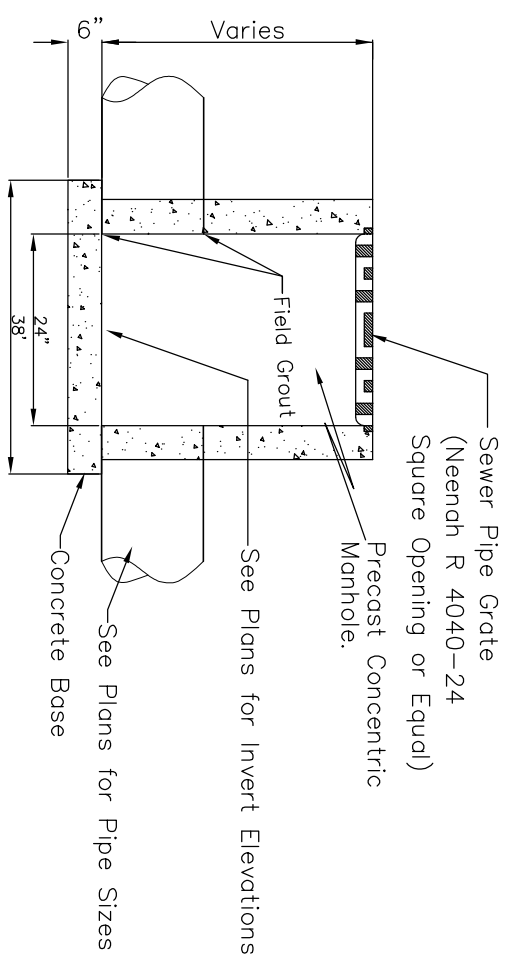
- Concrete Meet the requirements of SDDOT Class M6
- Landscape Fabric 5oz woven polypropylene, needle punched, weed barrier
- Rebar grade 40



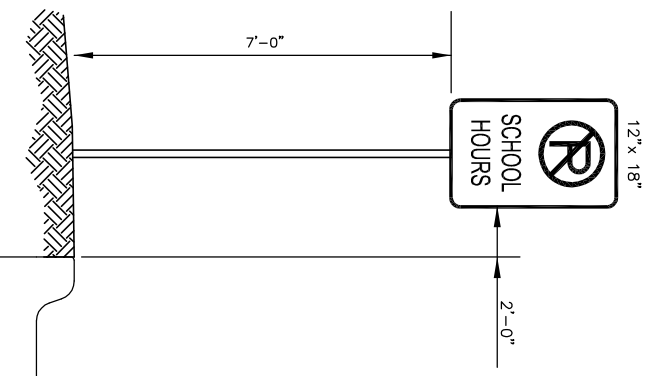
**KOCH HAZARD**  
 431 North Park 200  
 Sioux Falls, SD 57104  
 T. 605.336.3718  
 F. 605.336.0438  
 W. kochhazard.com

PROJECT NO.:  
 DRAWING:  
 DATE: 3/10/14  
 DEPARTMENT:  
 PROJECT: WASHINGTON ELEMENTARY SCHOOL SITE PHASE II  
 SHEET TITLE: GRADING AND SURFACING PLAN AND COURTYARD

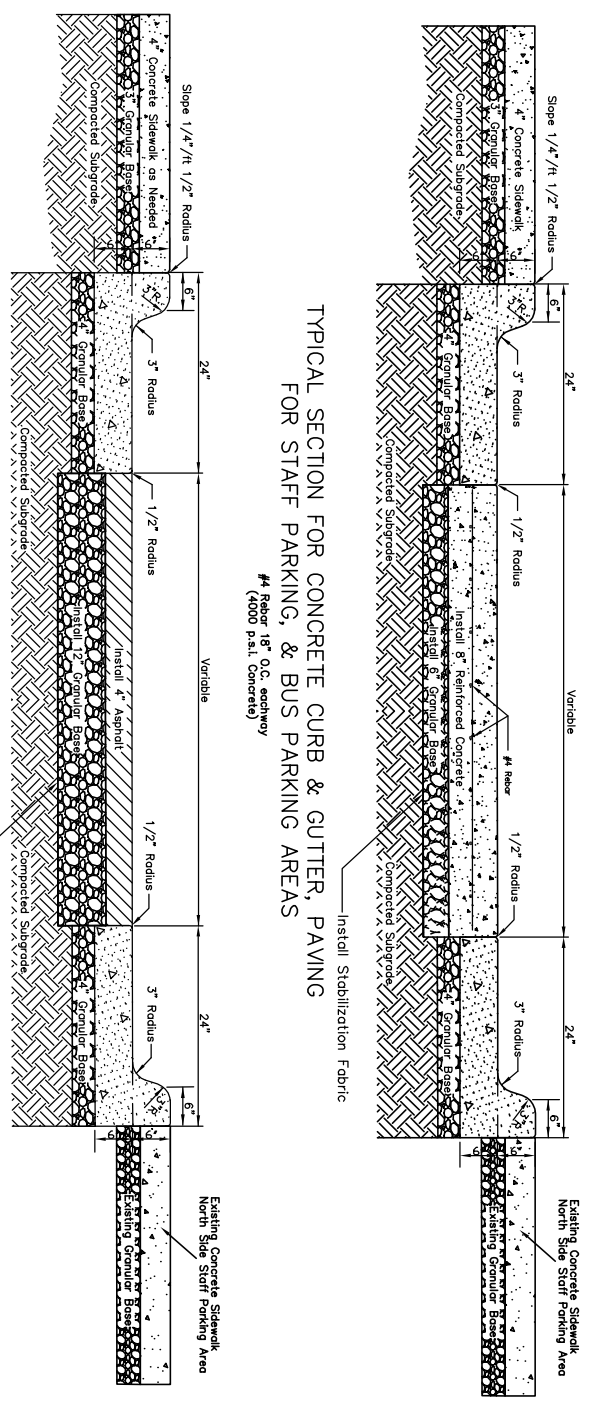
**C 1.8**



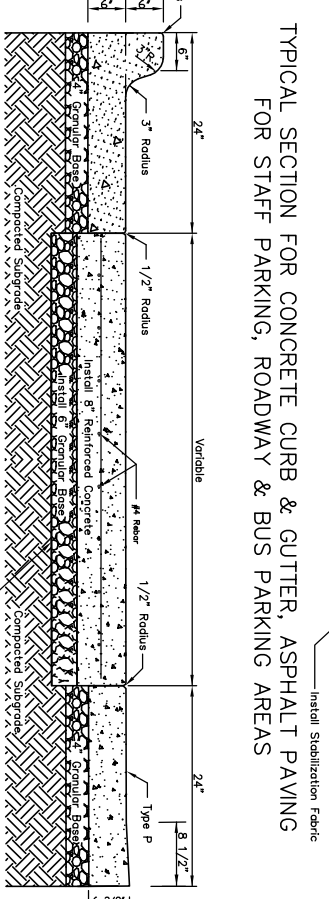
TYPE P CONCRETE GUTTER & MOUNTABLE TYPE MEDIAN PCC PAVEMENT



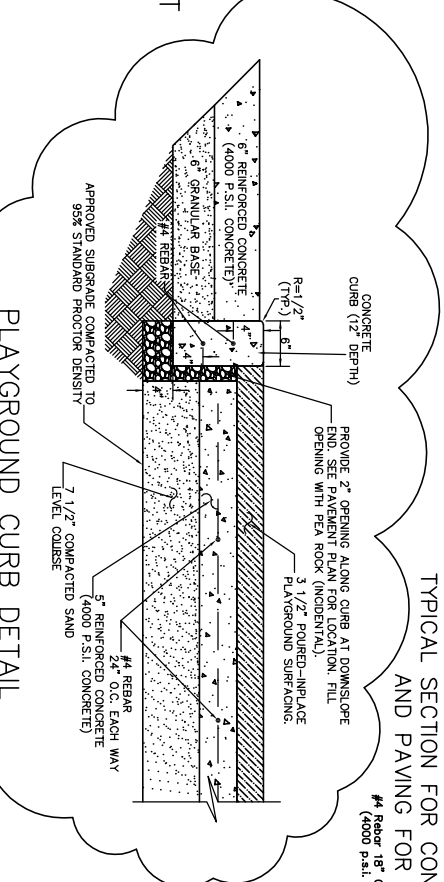
All breakaway sign supports comply with FHWA NCHRP 350 crash-worthy requirements. The Contractor shall provide post installation details at the preconstruction meeting for all steel post breakaway sign support assemblies.



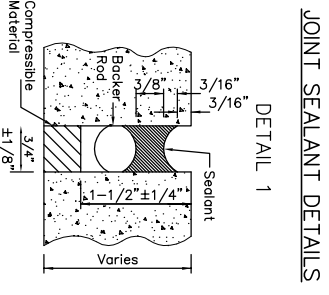
TYPICAL SECTION FOR CONCRETE CURB & GUTTER, PAVING FOR STAFF PARKING, & BUS PARKING AREAS



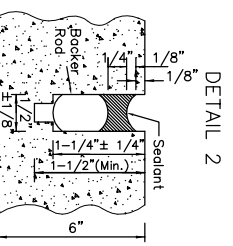
TYPICAL SECTION FOR CONCRETE CURB & GUTTER, ASPHALT PAVING FOR STAFF PARKING, ROADWAY & BUS PARKING AREAS



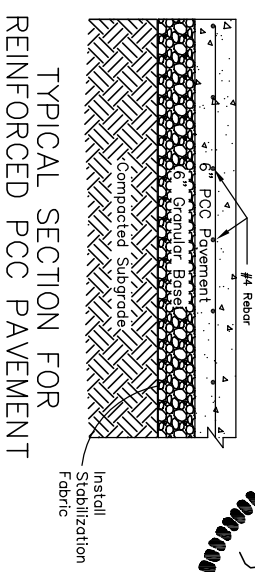
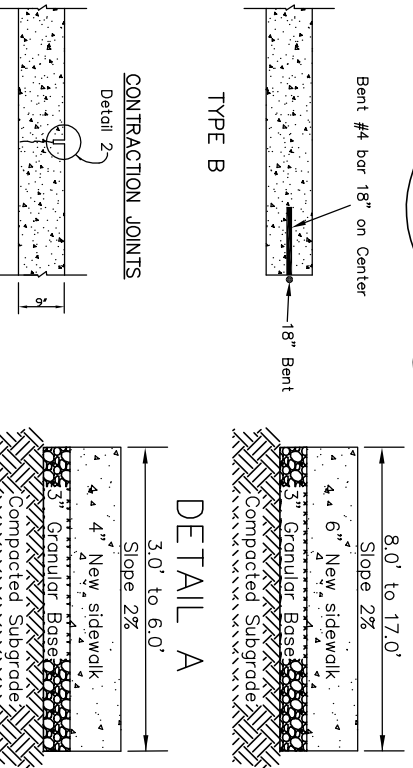
PLAYGROUND CURB DETAIL



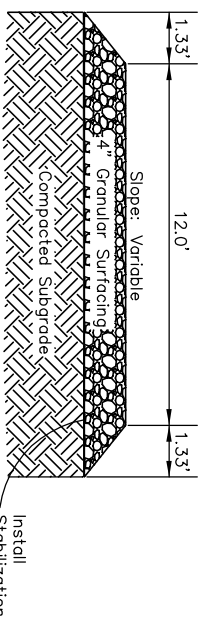
JOINT SEALANT DETAILS



DETAIL 2



TYPICAL SECTION FOR REINFORCED PCC PAVEMENT



TYPICAL SECTION FOR GRAVEL SURFACING



**KOCH HAZARD ARCHITECTS**  
 431 North Phillips 200  
 Sioux Falls, SD 57104  
 P: 605.336.3718  
 F: 605.336.0435  
 W: KOCHHAZARD.COM

PROJECT NO.: 1729  
 DATE: 3/10/14  
 SHEET NO.: 2014  
 PROJECT: WASHINGTON ELEMENTARY SCHOOL, SITE PHASE II

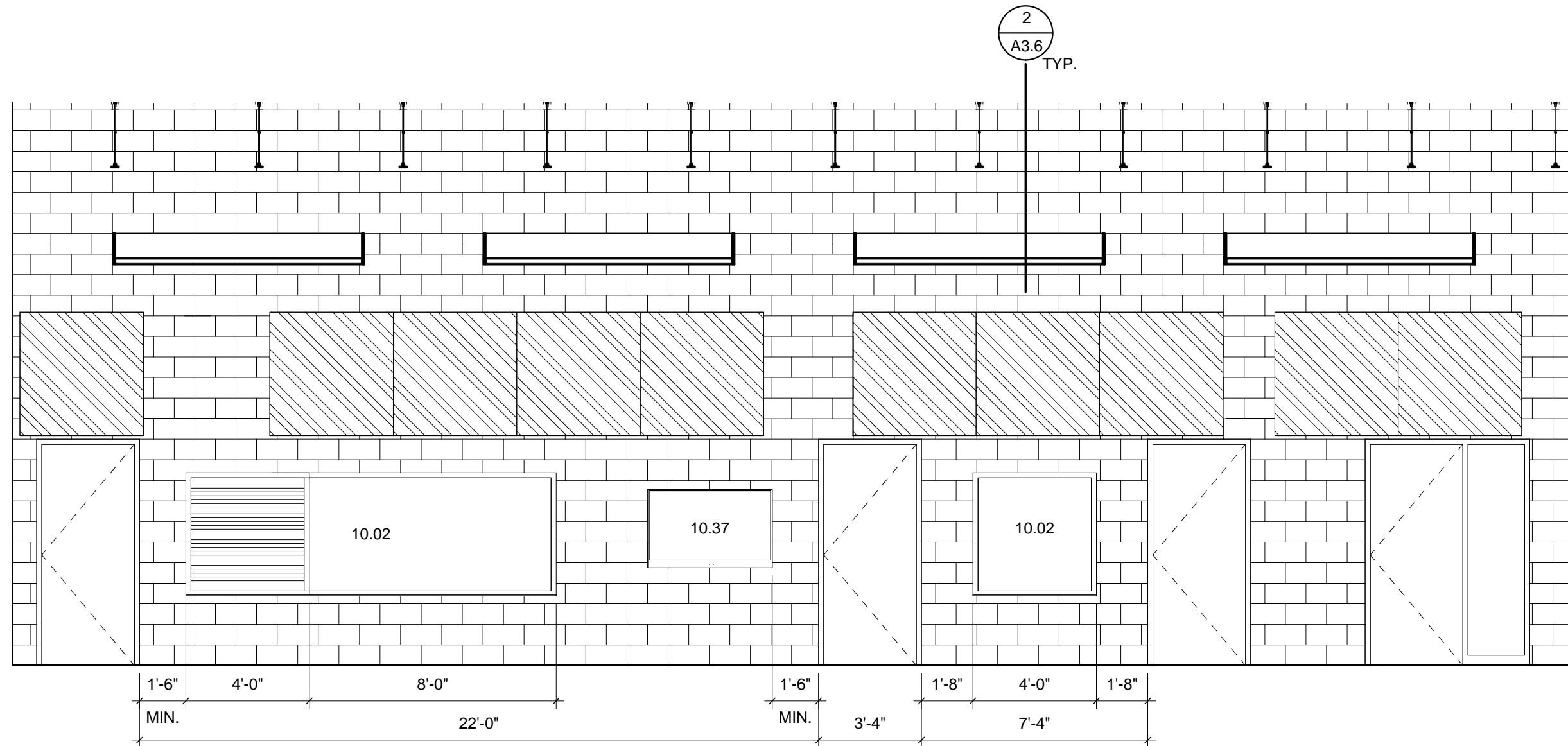
HARON SCHOOL DISTRICT  
 DETAILS CORN & GISHAL PAVING & ASPHALT PAVING & SCHOOL SIGN

**C 1.9**

NOT TO SCALE

**KEYNOTES**

- 10.02 MARKERBOARD
- 10.37 SMARTBOARD (ADJUSTABLE HEIGHT TYP.) (OF/OI)



**BAND/ORCH ROOM ELEVATION**

1/4" = 1'-0"

PROJECT NO.: 1277A  
 DRAWN BY: ADG  
 DATE: 03/12/14  
 COPYRIGHT: 2013  
 PROJECT: Washington 4 - 5 Center Addition & Renovation  
 Huron School District  
 Huron, SD  
 SHEET TITLE: BAND/ORCH ROOM ELEVATION



ADDENDUM M1

MADISON ELEMENTARY SCHOOL  
ADDITION & RENOVATIONS  
HURON, SD

March 11, 2014

Associated Consulting Engineering, Inc.  
340 South Phillips Avenue  
Sioux Falls SD 57104-6319

---

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 210500 – FIRE SUPPRESSION

1. Delete this section in its entirety.

SECTION 220400 – PLUMBING

1. Subsection 1.10 MIXING VALVE:

Revise: Model 803 to Model 802.

SECTION 220600 – HEATING

1. Subsection 1.13 – AIR SEPARATOR:

Revise: Cooling system air separator shall be an RL-4.

SECTION 230800 – VENTILATION AND AIR CONDITIONING

1. Add the following Subsection:

FABRIC DUCT SYSTEM:

Furnish and install a fabric duct distribution system as shown on the Drawings.

Product must be Classified by Underwriter’s Laboratories in accordance with the 25/50 flame spread / smoke developed requirements of NFPA 90-A and are also classified in accordance with ICC Evaluation Service AC167.

All product sections must be labeled with the logo and classification marking of Underwriter’s Laboratories.

Manufacturer must have documented design support information including duct sizing, vent and orifice location, vent and orifice sizing, length, and suspension. Parameters for design, including maximum air temperature, velocity, pressure and fabric permeability, shall be considered and documented.

Manufacturer shall provide a 5 Year Product Warranty for products supplied for the fabric portion of this system as well as a Design and Performance Warranty.

Air diffusers shall be constructed of a woven fire retardant fabric complying with the following physical characteristics:

1. Fabric Construction: 100% Flame Retardant
2. Weight: 5.2 oz. /yd<sup>2</sup> per ASTM D3776
3. Color: Maroon
4. Air Permeability: 2 (+2/-1) cfm/ft<sup>2</sup> per ASTM D737, Frazier
5. Temperature Range: 0 degrees F to 180 degrees F
6. Fire Retardancy: Classified by Underwriters Laboratories in accordance with the requirements of NFPA 90-A and AC-167 (noted above).

Air dispersion shall be accomplished by linear vent and permeable fabric. Linear vent is to consist of an array of open orifices rather than a mesh style vent to reduce maintenance requirements of mesh style vents. Linear vents should also be designed to minimize dusting on fabric surface.

Size of and location of linear vents to be specified and approved by manufacturer.

Inlet connection to metal duct via fabric draw band with anchor patches as supplied by manufacturer.

Anchor patches to be secured to metal duct via zip screw fastener – supplied by contractor.

Inlet connection includes zipper for easy removal / maintenance.

Lengths to include required zippers as specified by manufacturer.

System to include Adjustable Flow Devices to balance turbulence, airflow and distribution as needed. Flow restriction device shall include ability to adjust the airflow resistance from 0.06 – 0.60 in w.g. static pressure.

Fabric system shall include connectors to accommodate suspension system listed below.

Any deviation from a straight run shall be made using a gored elbow or an efficiency tee. Normal 90 degree elbows are 5 gores and the radius of the elbow is 1.5 times the diameter of the fabric duct system.

Fabric systems shall be designed from 0.25” water gage minimum to 3.0” maximum, with 0.5” as the standard.

Fabric systems shall be limited to design temperatures between 0 degrees F and 180 degrees F (-17.8 degrees C and 82 degrees C).

Design CFM, static pressure and diffuser length shall be designed or approved by the

manufacturer.

The suspension system shall include a double (2 Row) runs of aluminum H-Track system located 1.5” above the 10 and 2 o’clock (2 Row) locations of the system. 2 Row supports are required for systems of 32” diameter and larger. Hardware to include 10’ sections of track, splice connectors, track endcaps and vertical cable support kits – consisting of a length of cable with a locking stud end and Gripple quick cable connectors. Radius aluminum track must be included for all radius sections.

Fabric / Track attachment:

1. Cord In continuous supporting cord (not suggested for systems >24” Dia.)
2. Snap Tabs are a detachable sliding tab positioned every 24” along the length of the system (all diameters).
3. Install chosen suspension system in accordance with the requirements of the manufacturer. Instructions for installation shall be provided by the manufacturer with product.

Clean air handling unit and ductwork prior to the fabric duct system unit-by-unit as it is installed.

Clean external surfaces of foreign substance which may cause corrosive deterioration of facing.

Temporary Closure: At ends of ducts which are not connected to equipment or distribution devices at time of ductwork installation, cover with polyethylene film or other covering which will keep the system clean until installation is completed.

If fabric duct systems become soiled during installation, they should be removed and cleaned following the manufacturers standard terms of laundry.

Fabric duct systems shall be Duct Sox or equal.

2. Subsection 1.27 – KITCHEN HOOD:

Revise: 277 volt to 120 volt.

SECTION 230900 – AUTOMATIC TEMPERATURE CONTROL/BAS

1. Subsection - SEQUENCE OF OPERATION:

Add the following:

Existing Unit Ventilators:

During occupied operation, the fan shall run continuously as determined by the Building Automation System (BAS). When the occupied cycle of operation is initiated, the BAS shall prevent the outside air damper from opening during morning warm-up. When the space temperature reaches 68 degrees F (adj.), the outside air damper shall open to its minimum position.

The BAS shall maintain the desired space temperature by controlling in sequence the modulating outside air and return air dampers, DX cooling of the separate split

system and the modulating two-way hot water valve.

The BAS with its sensor located in the mixed air shall modulate the outside air and return air dampers to prevent the mixed air temperature from falling below 45 degrees F (adj.). The BAS shall return the outside air damper to its minimum position whenever the outside air temperature rises above 75 degrees F (adj.).

During unoccupied operation, the fan shall be off and the outside air damper shall be closed. The BAS shall modulate the hot water valve to prevent the mixed air temperature from falling below 45 degrees F (adj.). The BAS shall cycle the fan to maintain to reduced space sensor set point in the heating mode with the heating coil valve open.

Provide a current switch or differential pressure switch across the fan to prove fan operation. Provide a freeze protection thermostat as previously specified located on the discharge side of the heating coil which will send an alarm to the operator's workstation and BAS alarm printer through the auxiliary contacts, shut off the fan motor, fully close the outside air damper and open the heating coil valve to full flow through the coil whenever the coil outlet air temperature falls below its setting.

The controller shall be networked into the BAS to allow for remote adjustments, remote monitoring and remote temperature indication at the operator's workstation.

#### DRAWING ITEMS:

#### DRAWING SHEET M1.1 – DETAILS AND LEGEND

1. Added Gas piping to BOILER PIPING DETAIL and WATER HEATER PIPING DETAIL
2. See attached Drawing Sheet RM1.1, dated 3-11-14, sheet 4 of 5.

#### DRAWING SHEET M3.5 - ENLARGED FLOOR PLAN PLUMBING & HEATING

1. Note 35 – Add: The boiler modification shall include but not be limited to the following:
  - Probe type low water cut-off M & M 750-MT-120.
  - Replace pressure control with temperature control Honeywell L4006A1009.
  - Temperature high limit with manual reset L4006E1067.
  - Replace steam relief with hot water relief (50 psi).
  - Replace pressure gauges.
  - Replace pressure control with hot water modulating control T991, L6006 or equal.
2. Revised CHS & CHR Piping in ENLARGED PENTHOUSE ROOM 163 PLAN – PLUMBING & HEATING. See attached Drawing Sheet RM3.5, dated 3-11-14, sheet 5 of 5.

#### SUBSTITUTIONS AND PRODUCT OPTIONS

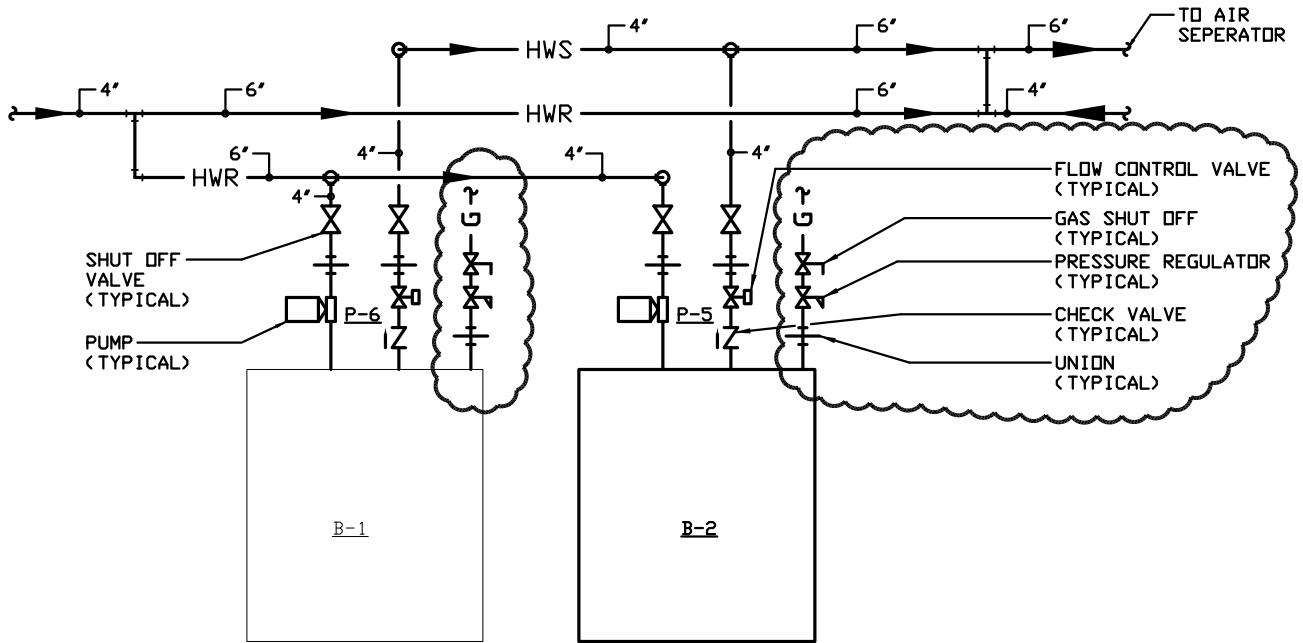
The following material or equipment furnished by the manufacturers listed may be substituted as equal, providing that each item, material and piece of equipment conforms to the design and requirements of the Drawings and Project Manual.

SECTION    ITEM

MANUFACTURER

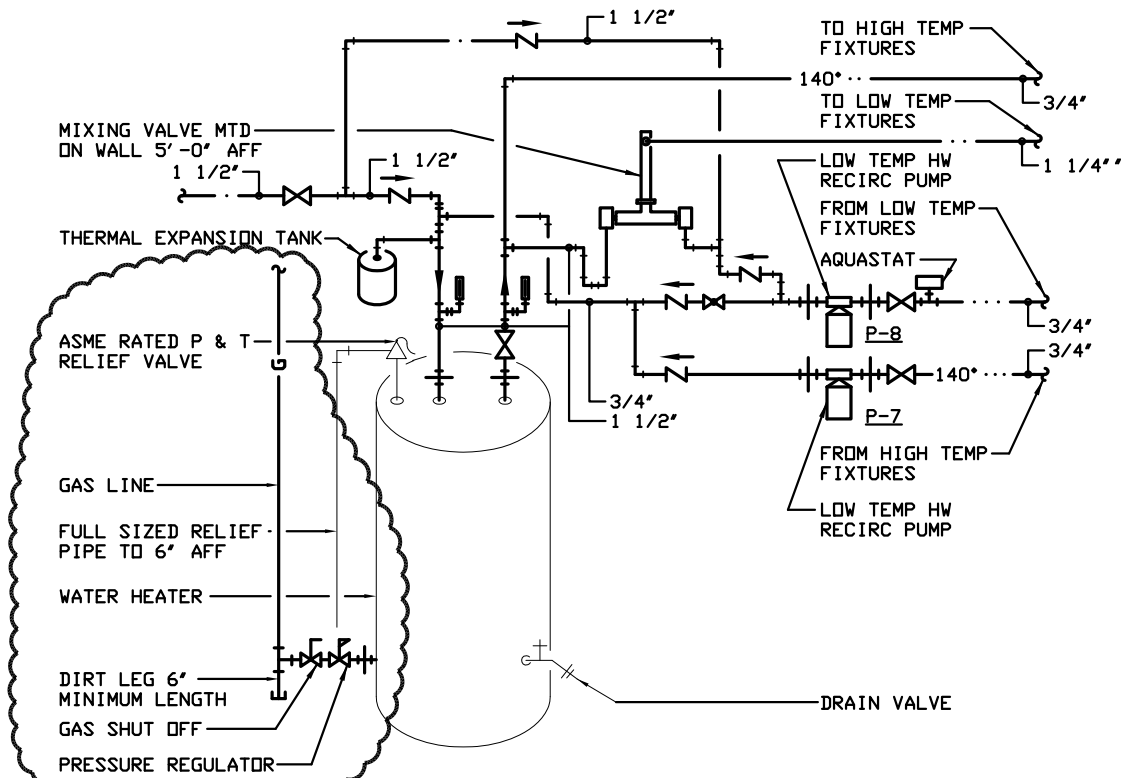
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END OF ADDENDUM



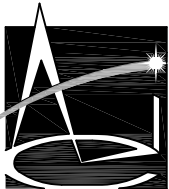
## BOILER PIPING DETAIL

NO SCALE



## WATER HEATER PIPING DETAIL

NO SCALE



**Associated  
Consulting  
Engineering,  
Incorporated**

PROJECT

MADISON ELEMENTARY  
ADDITION PHASE 2  
HURON, SOUTH DAKOTA

PROJECT NO.

113059

DATE

03-11-14

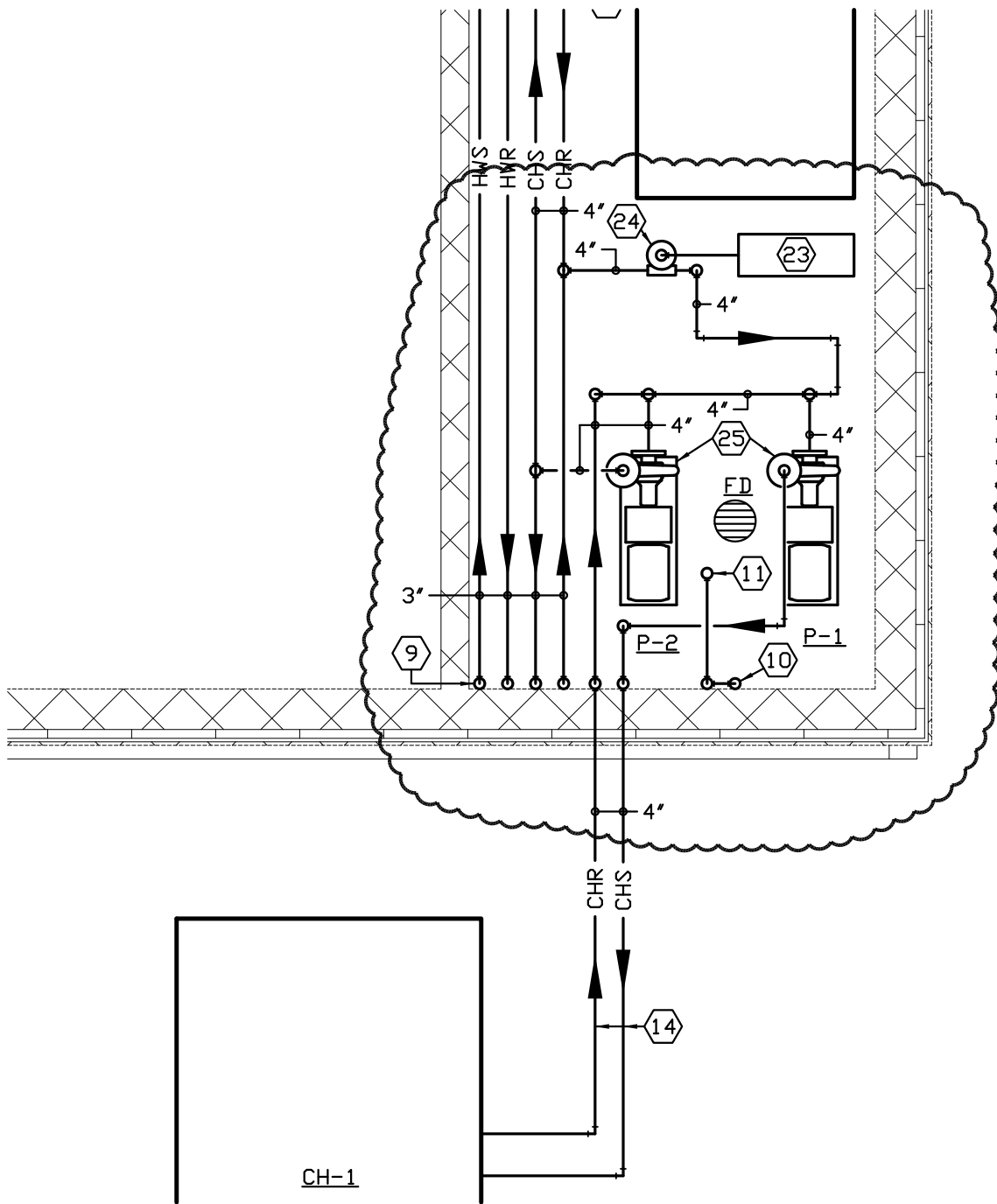
DRAWN BY

EJS

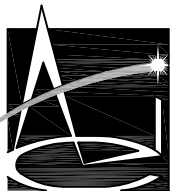
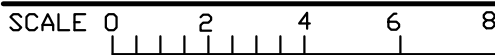
SHEET

**RM1. 1**

4 OF 5



# ENLARGED PENTHOUSE ROOM 163 PLAN - PLUMBING & HEATING



**Associated  
Consulting  
Engineering,  
Incorporated**

PROJECT  
MADISON ELEMENTARY  
ADDITION PHASE 2  
HURON, SOUTH DAKOTA

PROJECT NO.  
**113059**  
DATE  
**03-11-14**  
DRAWN BY  
**EJS**

SHEET  
**RM3. 5**  
**5 OF 5**

ADDENDUM M1

WASHINGTON ELEMENTARY SCHOOL  
ADDITION & RENOVATIONS  
HURON, SD

March 11, 2014

Associated Consulting Engineering, Inc.  
340 South Phillips Avenue  
Sioux Falls SD 57104-6319

---

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 210500 – FIRE SUPPRESSION

1. Delete this section in its entirety.

SECTION 220400 – PLUMBING

1. Subsection 1.10 MIXING VALVE:

Revise: Model 803 to Model 802.

SECTION 220600 – HEATING

1. Subsection 1.13 – AIR SEPARATOR:

Revise: Cooling system air separator shall be an RL-4.

SECTION 230800 – VENTILATION AND AIR CONDITIONING

1. Add the following Subsection:

FABRIC DUCT SYSTEM:

Furnish and install a fabric duct distribution system as shown on the Drawings.

Product must be Classified by Underwriter's Laboratories in accordance with the 25/50 flame spread / smoke developed requirements of NFPA 90-A and are also classified in accordance with ICC Evaluation Service AC167.

All product sections must be labeled with the logo and classification marking of Underwriter's Laboratories.

Manufacturer must have documented design support information including duct sizing, vent and orifice location, vent and orifice sizing, length, and suspension. Parameters for design, including maximum air temperature, velocity, pressure and fabric permeability, shall be considered and documented.

Manufacturer shall provide a 5 Year Product Warranty for products supplied for the fabric portion of this system as well as a Design and Performance Warranty.

Air diffusers shall be constructed of a woven fire retardant fabric complying with the following physical characteristics:

1. Fabric Construction: 100% Flame Retardant
2. Weight: 5.2 oz. /yd<sup>2</sup> per ASTM D3776
3. Color: Maroon
4. Air Permeability: 2 (+2/-1) cfm/ft<sup>2</sup> per ASTM D737, Frazier
5. Temperature Range: 0 degrees F to 180 degrees F
6. Fire Retardancy: Classified by Underwriters Laboratories in accordance with the requirements of NFPA 90-A and AC-167 (noted above).

Air dispersion shall be accomplished by linear vent and permeable fabric. Linear vent is to consist of an array of open orifices rather than a mesh style vent to reduce maintenance requirements of mesh style vents. Linear vents should also be designed to minimize dusting on fabric surface.

Size of and location of linear vents to be specified and approved by manufacturer.

Inlet connection to metal duct via fabric draw band with anchor patches as supplied by manufacturer.

Anchor patches to be secured to metal duct via zip screw fastener – supplied by contractor.

Inlet connection includes zipper for easy removal / maintenance.

Lengths to include required zippers as specified by manufacturer.

System to include Adjustable Flow Devices to balance turbulence, airflow and distribution as needed. Flow restriction device shall include ability to adjust the airflow resistance from 0.06 – 0.60 in w.g. static pressure.

Fabric system shall include connectors to accommodate suspension system listed below.

Any deviation from a straight run shall be made using a gored elbow or an efficiency tee. Normal 90 degree elbows are 5 gores and the radius of the elbow is 1.5 times the diameter of the fabric duct system.

Fabric systems shall be designed from 0.25” water gage minimum to 3.0” maximum, with 0.5” as the standard.

Fabric systems shall be limited to design temperatures between 0 degrees F and 180 degrees F (-17.8 degrees C and 82 degrees C).

Design CFM, static pressure and diffuser length shall be designed or approved by the manufacturer.

The suspension system shall include a double (2 Row) runs of aluminum H-Track system located 1.5” above the 10 and 2 o’clock (2 Row) locations of the system. 2 Row supports are required for systems of 32” diameter and larger. Hardware to include 10’ sections of track, splice connectors, track endcaps and vertical cable support kits – consisting of a length of cable with a locking stud end and Gripple quick cable connectors. Radius aluminum track must be included for all radius sections.

Fabric / Track attachment:

1. Cord In continuous supporting cord (not suggested for systems >24” Dia.)
2. Snap Tabs are a detachable sliding tab positioned every 24” along the length of the system (all diameters).
3. Install chosen suspension system in accordance with the requirements of the manufacturer. Instructions for installation shall be provided by the manufacturer with product.

Clean air handling unit and ductwork prior to the fabric duct system unit-by-unit as it is installed.

Clean external surfaces of foreign substance which may cause corrosive deterioration of facing.

Temporary Closure: At ends of ducts which are not connected to equipment or distribution devices at time of ductwork installation, cover with polyethylene film or other covering which will keep the system clean until installation is completed.

If fabric duct systems become soiled during installation, they should be removed and cleaned following the manufacturers standard terms of laundry.

Fabric duct systems shall be Duct Sox or equal.

2. Subsection 1.27 – KITCHEN HOOD:

Revise: 277 volt to 120 volt.

SECTION 230900 – AUTOMATIC TEMPERATURE CONTROL/BAS

1. Subsection 1.23 - SEQUENCE OF OPERATION:

Add the following:

Existing Unit Ventilators:

During occupied operation, the fan shall run continuously as determined by the Building Automation System (BAS). When the occupied cycle of operation is initiated, the BAS shall prevent the outside air damper from opening during morning warm-up. When the space temperature reaches 68 degrees F (adj.), the outside air damper shall open to its minimum position.

The BAS shall maintain the desired space temperature by controlling in sequence the modulating outside air and return air dampers, DX cooling of the separate split system and the modulating two-way hot water valve.

The BAS with its sensor located in the mixed air shall modulate the outside air and return air dampers to prevent the mixed air temperature from falling below 45 degrees F (adj.). The BAS shall return the outside air damper to its minimum position whenever the outside air temperature rises above 75 degrees F (adj.).

During unoccupied operation, the fan shall be off and the outside air damper shall be closed. The BAS shall modulate the hot water valve to prevent the mixed air temperature from falling below 45 degrees F (adj.). The BAS shall cycle the fan to maintain to reduced space sensor set point in the heating mode with the heating coil valve open.

Provide a current switch or differential pressure switch across the fan to prove fan operation. Provide a freeze protection thermostat as previously specified located on the discharge side of the heating coil which will send an alarm to the operator's workstation and BAS alarm printer through the auxiliary contacts, shut off the fan motor, fully close the outside air damper and open the heating coil valve to full flow through the coil whenever the coil outlet air temperature falls below its setting.

The controller shall be networked into the BAS to allow for remote adjustments, remote monitoring and remote temperature indication at the operator's workstation.

#### DRAWING ITEMS:

#### DRAWING SHEET M1.1 – DETAILS AND LEGEND

1. Added Gas piping to BOILER PIPING DETAIL and WATER HEATER PIPING DETAIL
2. See attached Drawing Sheet RM1.1, dated 3-11-14, sheet 1 of 5.

#### DRAWING SHEET M3.7 – FLOOR PLAN AREA 'C' PLUMBING & HEATING

1. Note 51 – Add: The boiler modification shall include but not be limited to the following:
  - Probe type low water cut-off M & M 750-MT-120.
  - Replace pressure control with temperature control Honeywell L4006A1009.
  - Temperature high limit with manual reset L4006E1067.
  - Replace steam relief with hot water relief (50 psi).
  - Replace pressure gauges.
  - Replace pressure control with hot water modulating control T991, L6006 or equal.
2. Added notes 53 & 54. See attached Drawing Sheet RM3.7, dated 3-11-14, sheet 2 of 5.
3. Added Vent piping in ENLARGED MEZZANINE PLAN – PLUMBING & HEATING. See attached Drawing Sheet RM3.7, dated 3-11-14, sheet 2 of 5.
4. Revised CHS & CHR piping in ENLARGED MECHANICAL ROOM 141 PLAN – PLUMBING & HEATING. See attached Drawing Sheet RM3.7, dated 3-11-14, sheet 3 of 5.
5. Revised HWS & HWS piping size by pumps in ENLARGED MECHANICAL ROOM 141 PLAN – PLUMBING & HEATING. See attached Drawing Sheet RM3.7, dated 3-11-14, sheet 3 of 5.

#### SUBSTITUTIONS AND PRODUCT OPTIONS

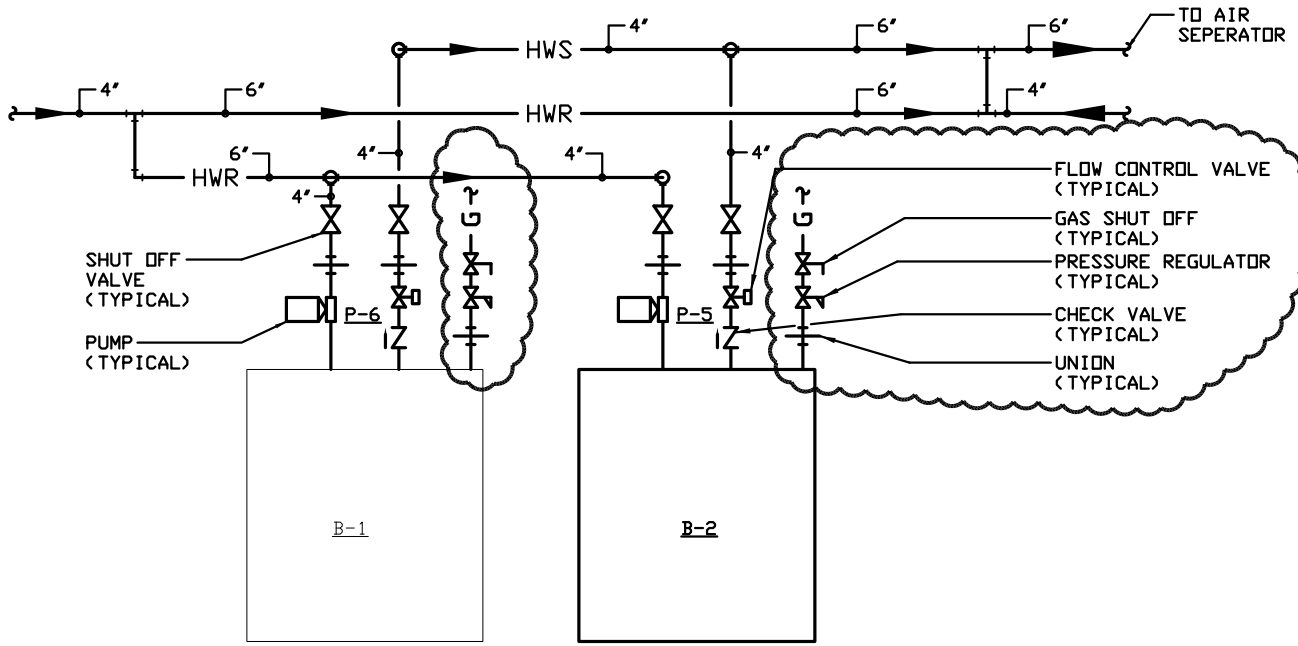
The following material or equipment furnished by the manufacturers listed may be substituted as equal, providing that each item, material and piece of equipment conforms to the design and requirements of the Drawings and Project Manual.

SECTION ITEM

MANUFACTURER

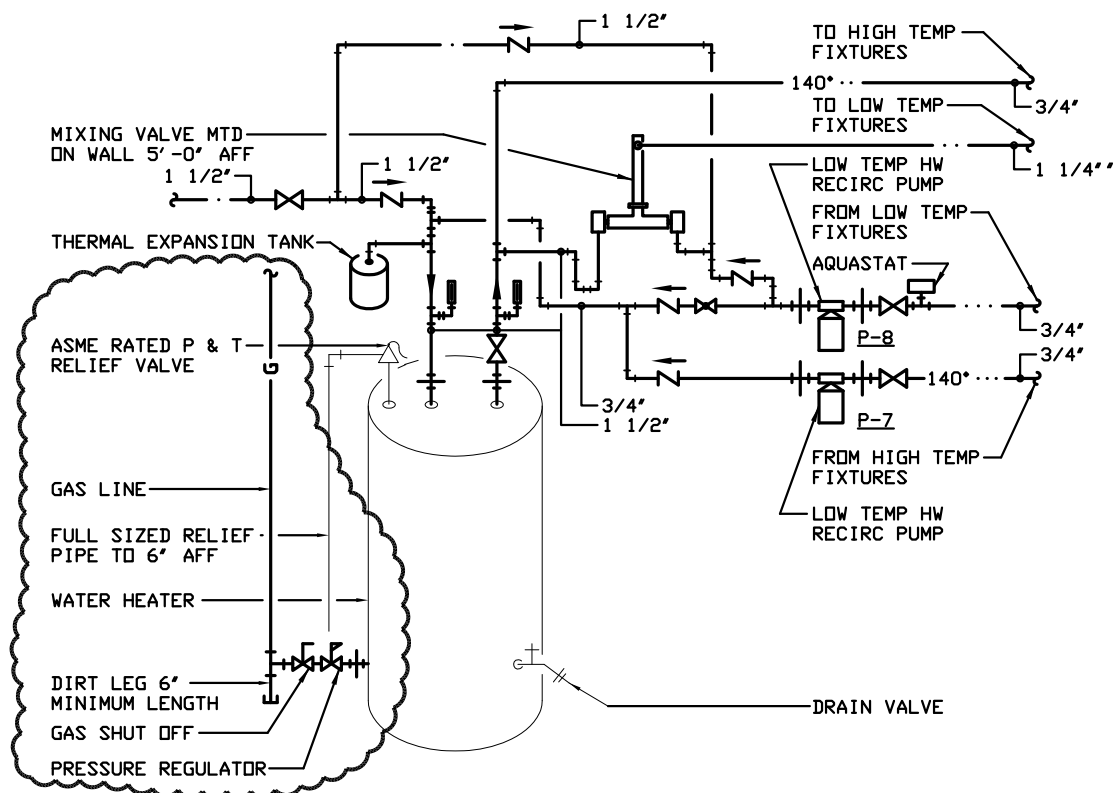
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END OF ADDENDUM



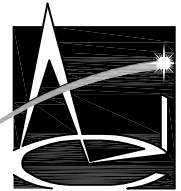
## BOILER PIPING DETAIL

NO SCALE



## WATER HEATER PIPING DETAIL

NO SCALE



**Associated  
Consulting  
Engineering,  
Incorporated**

PROJECT  
WASHINGTON ELEMENTARY  
ADDITION PHASE 2  
HURON, SOUTH DAKOTA

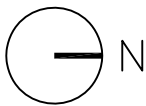
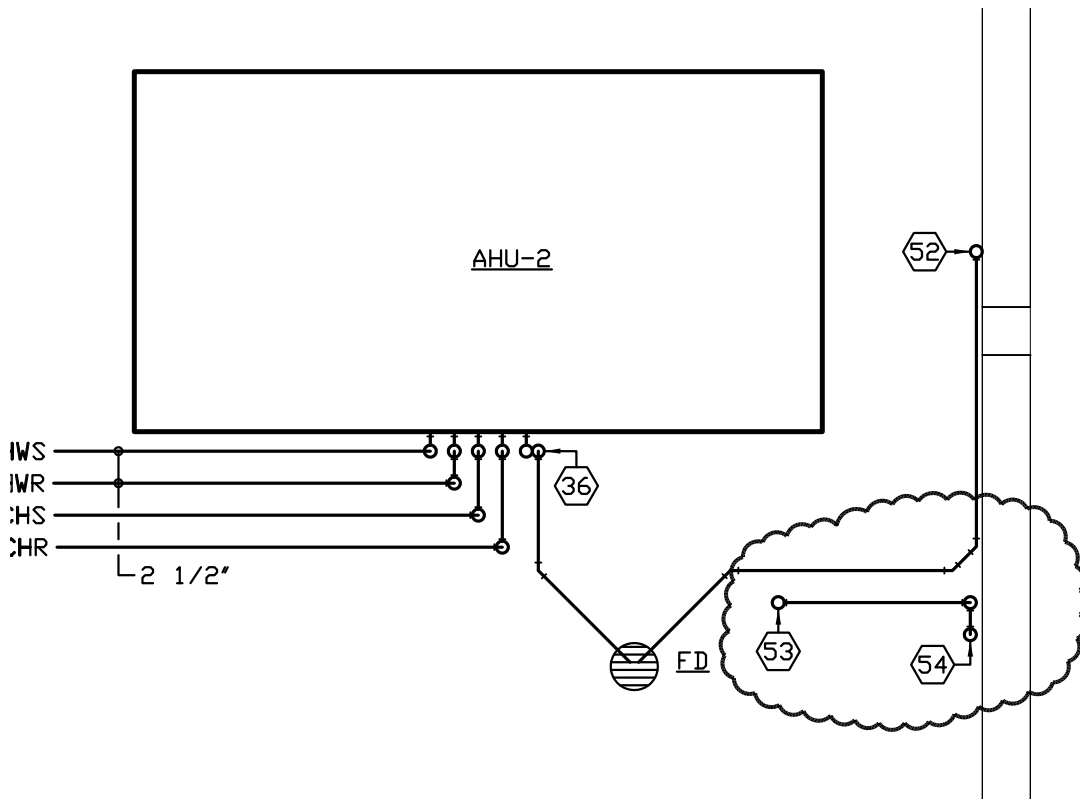
PROJECT NO. <b>113059</b>	SHEET <b>RM1. 1</b>
DATE <b>03-11-14</b>	
DRAWN BY <b>EJS</b>	1 OF 5

# PLUMBING & HEATING NOTES

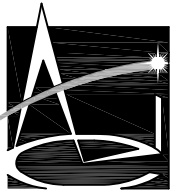
52 1" DRAIN UP TO LOUVER

53 2" V UP (4" VTR)

54 2" V DN, 1 1/2" V DN



## ENLARGED MEZZANINE PLAN PLUMBING & HEATING



**Associated  
Consulting  
Engineering,  
Incorporated**

PROJECT

WASHINGTON ELEMENTARY  
ADDITION PHASE 2  
HURON, SOUTH DAKOTA

PROJECT NO.

113059

DATE

03-11-14

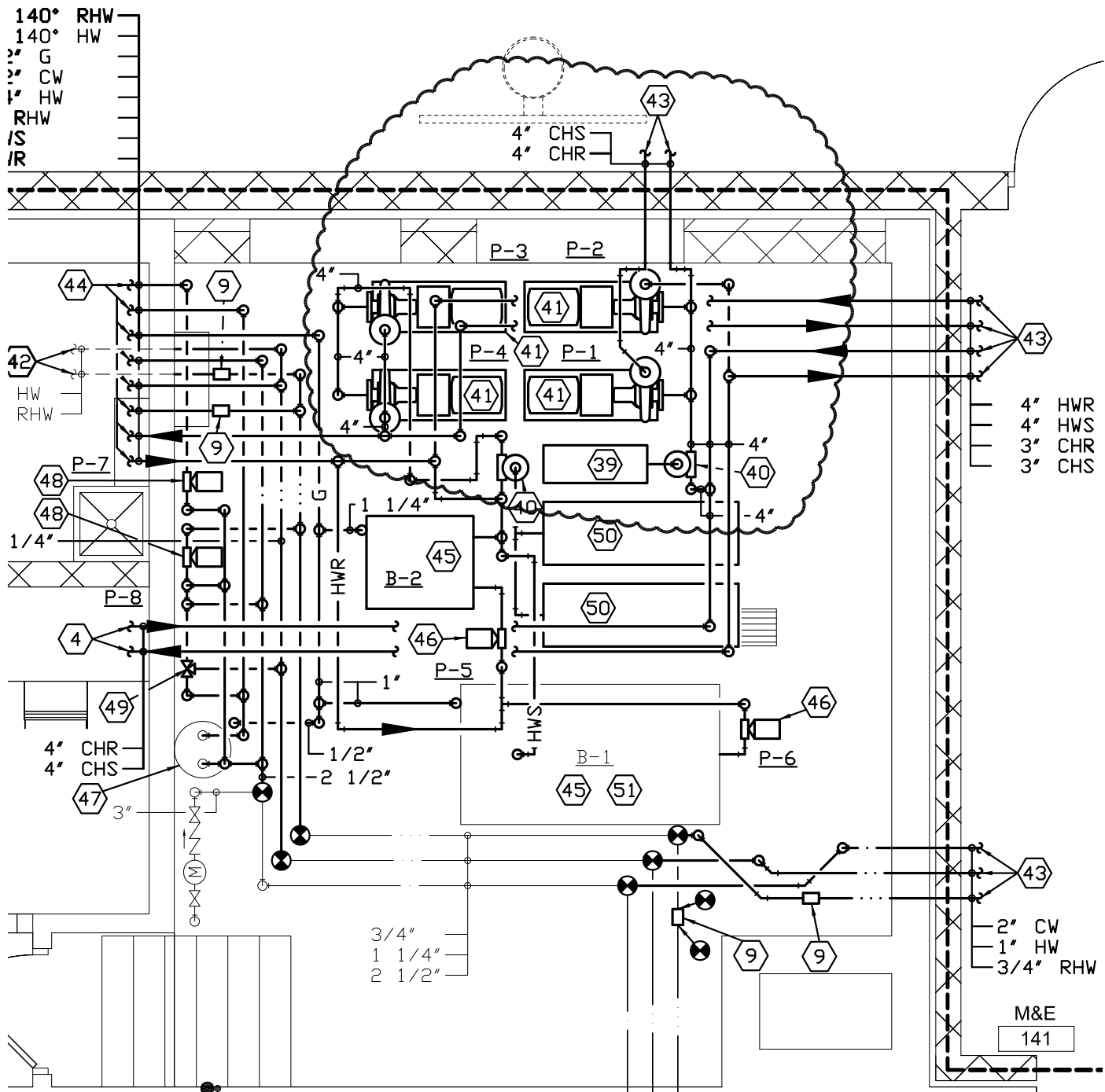
DRAWN BY

EJS

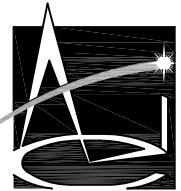
SHEET

**RM3. 7**

2 OF 5



# ENLARGED MECHANICAL ROOM 141 PLAN - PLUMBING & HEATING



**Associated  
Consulting  
Engineering,  
Incorporated**

PROJECT  
WASHINGTON ELEMENTARY  
ADDITION PHASE 2  
HURON, SOUTH DAKOTA

PROJECT NO.  
**113059**  
DATE  
**03-11-14**  
DRAWN BY  
**EJS**

SHEET  
**RM3. 7**  
**3 OF 5**

ADDENDUM E1

MADISON ELEMENTARY SCHOOL  
EXPANSION & RENOVATION  
HURON SOUTH DAKOTA

DATE: March 12, 2014

Associated Consulting Engineering, Inc.  
340 South Phillips Avenue  
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:

PRE-CAST WALLS

1. For clarification, electrical raceways and boxes shall be installed concealed within pre-cast concrete walls as required so that devices are installed flush. See specification section 261300 for additional information.

DRAWINGS ITEMS:

DRAWING SHEET E3.3

FLOOR PLAN AREA "B" – POWER & SIGNAL

1. Room 132: Locate the A/V outlet and audio junction box at the south end of the west wall in lieu of the south end of the east wall.
2. Room 145: Provide a wall mount telephone outlet at the west wall (just south of the clock).
3. IT Room South of Staff 148: Provide a fire alarm heat detector.

DRAWING SHEET E3.3

PENTHOUSE 163 - AREA "B" – POWER & SIGNAL

1. Room 163: Provide two fire alarm heat detectors.

DRAWING SHEET E4.1

SCHEDULES AND DETAILS

1. Power Riser Diagram: The available fault current at the existing main switchboard "MSB" is 40,500A.
2. Power Riser Diagram: The available fault current at distribution panel "DPB" is 31,700A.
3. Power Riser Diagram: The available fault current at panel "B4" is 9,300A.

4. Power Riser Diagram: The available fault current at panel “B3: is less than 10,000A.
5. Power Riser Diagram: The available fault current at panel “B1” is 21,000A.
6. Power Riser Diagram: The available fault current at panel “A2” is less than 10,000A.
7. See revised drawing for mechanical equipment schedule.

DRAWING SHEET E4.2  
SCHEDULES

1. Lighting Fixture Schedule: The type “C2” luminaires does not need to be provided with the GTD device.
2. Lighting Fixture Schedule: The electrical contractor shall include a contractor allowance for each specified type “E3” luminaire as manufactured by Emergi-Lite. The allowance amount shall be \$605 and includes lamps and freight.
3. Lighting Fixture Schedule: The type “X” luminaire shall be equal to BETALED KR6-20L-40K-120/KR6T-SSGC-FF in lieu of the BETALED ESA luminaire.
3. Lighting Fixture Schedule: The electrical contractor shall include a contractor allowance for each specified type “Y” luminaire as manufactured by Stonco. The allowance amount shall be \$245 and includes lamps and freight.
5. Lighting Fixture Schedule: The electrical contractor shall include a contractor allowance for each specified type “Y1” luminaire as manufactured by Stonco. The allowance amount shall be \$330 and includes lamps and freight.
6. Lighting Fixture Schedule: Change the type “AA” site lighting unit to a type “AA4” site lighting unit.

DRAWING SHEET E4.4  
DETAILS

1. MOA Surface Raceway Mounting Detail: Replace reference to section 16140 with section 261400, replace reference to section 16729 with section 277290, replace reference to section 16740 with section 277400.

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
261450	Lighting Controls Occupancy Sensors	Sensorswitch
265110	Interior Lighting	
	Type A, AE, AF, A1, A1D, A1E, A1F, A1FE	LSI, Williams
	Type A2, A3, A3E	LSI, Williams
	Type B, BD, BE	LSI, Williams
	Type C, CE, C1, C1E, C2	LSI, Williams
	Type D, DE, D1	LSI, Williams
	Type E, E1	Chloride, Lightalarms, LSI
	Type E2	Lightalarms

Type E4  
Type H, HE

Type J#, J#E  
Type M, ME  
Type R  
Type U  
Type X

Lightalarms  
Atlantic, Prescolite, Vantage,  
Williams  
Alera, Pinnacle, Prudential  
Daybrite, LSI, Metalux, Williams  
Linear, LSI  
Legion, LSI, Metalux, Williams  
Atlantic, Prescolite, Vantage,  
Williams

265210 Exterior Lighting  
Type AA (AA4)  
Type CC

Gardco, LSI, Williams  
Gardco, Invue, Juno, LSI  
(Stanchion Mount)

END OF ADDENDUM

## EQUIPMENT SCHEDULE FOR MADISON ELEMENTARY SCHOOL, HURON SD

ACEI Project #: 113059

NO.	DESCRIPTION	KV	HP	MCA	VOLTS	PH	NOTES
1	CHILLER CH-1	-	-	393	208	3	1
2	AIR HANDLING UNIT AHU-1	-	5	-	208	3	2,3
3	AHU-2	-	10	-	208	3	3,4
4	AHU-3	-	15	-	208	3	3,4
5	FAN POWERED VAV FP-120	-	1/2	-	120	1	5
6	FP-121	-	1/2	-	120	1	5
7	FP-122	-	1/2	-	120	1	5
8	FP-124	-	1/2	-	120	1	5
9	FP-125	-	1/2	-	120	1	5
10	FP-130	-	1/2	-	120	1	5
11	FP-131	-	1/2	-	120	1	5
12	FP-132	-	1/2	-	120	1	5
13	FP-145	-	1/2	-	120	1	5
14	FP-147A	-	2x3/4	-	208	1	3,5
15	FP-147B	-	2x3/4	-	208	1	3,5
16	FP-151	-	1/2	-	120	1	5
17	FP-152	-	1/2	-	120	1	5
18	FP-154	-	1/2	-	120	1	5
19	BOILER B-2	1.6	-	-	120	1	6
20	COOLING PUMP P-1	-	5	-	208	3	7
21	SEC. COOLING PUMP P-2	-	7.5	-	208	3	4
22	HEATING PUMP P-3	-	5	-	208	3	2
23	HEATING PUMP P-4	-	5	-	208	3	2
24	BOILER PUMP P-5	-	1.5	-	208	3	7
25	BOILER PUMP P-6	-	1.5	-	208	3	7
26	RE-CIRC PUMP P-7	-	1/16	-	120	1	8
27	RE-CIRC PUMP P-8	-	1/16	-	120	1	8
28	CABINET UNIT HEATER CUH-100	-	1/10	-	120	1	5
29	CUH-119	-	1/15	-	120	1	5
30	CUH-133	-	1/15	-	120	1	5
31	CUH-144	-	1/15	-	120	1	5
32	UNIT HEATER UH-134	.09	-	-	120	1	8
33	NOT USED.	-	-	-	-	-	-
34	UH-163	-	1/20	-	120	1	8
35	EXHAUST FAN EF-105	.1	-	-	120	1	9
36	EF-109	-	1/4	-	120	1	1
37	EF-123	-	1/4	-	120	1	1
38	EF-139	-	1/4	-	120	1	1
39	EF-143	.1	-	-	120	1	8
40	EF-145	-	3/4	-	120	1	3,10
41	EF-201	.48	-	-	120	1	1
42	FP-107	-	1/2	-	120	1	5
43	FP-108	-	1/2	-	120	1	5
44	FP-101	-	1/2	-	120	1	5
45	EF-153	.1	-	-	120	1	9

**NOTES:**

1. PROVIDE SINGLE POINT POWER CONNECTION. DISCONNECT AND CONTROL BY MECHANICAL CONTRACTOR (MC).
2. PROVIDE A NONFUSED DISCONNECT SWITCH AND CONNECTION TO VFD AND UNIT. CONTROL BY MC.
3. INTERLOCK UNIT WITH FIRE ALARM SYSTEM FOR SHUTDOWN UPON ALARM.
4. PROVIDE CONNECTION TO VFD/DISCONNECT AND UNIT. VFD/DISCONNECT AND CONTROL BY MC.
5. PROVIDE SINGLE POINT POWER CONNECTION. DISCONNECT AND CONTROL BY MC.
6. PROVIDE A MANUAL MOTOR STARTER WITH THERMAL OVERLOAD AND CONNECT TO MUSHROOM HEAD 'BOILER EMERGENCY OFF' PUSHBUTTON SWITCH AT EXIT OUT OF ROOM.
7. PROVIDE A COMBINATION MAGNETIC STARTER/NONFUSED DISCONNECT SWITCH WITH H. D. A., 2 N. D., AND 2 N. C. CONTACTS, AND PILOT LIGHTS. CONTROL BY MC.
8. PROVIDE A MANUAL MOTOR STARTER DISCONNECT SWITCH. CONTROL BY MC.
9. PROVIDE A MANUAL MOTOR STARTER DISCONNECT SWITCH AND INTERMATIC E1210W TIMER SWITCH FOR CONTROL.
10. PROVIDE A PILOT LIGHT SWITCH FOR CONTROL. DISCONNECT AT UNIT BY MC.

ADDENDUM E1

WASHINGTON ELEMENTARY SCHOOL  
EXPANSION & RENOVATION  
HURON SOUTH DAKOTA

DATE: March 12, 2014

Associated Consulting Engineering, Inc.  
340 South Phillips Avenue  
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:

PRE-CAST WALLS

1. For clarification, electrical raceways and boxes shall be installed concealed within pre-cast concrete walls as required so that devices are installed flush. See specification section 261300 for additional information.

SECTION 264410 – SWITCHBOARDS

1. Delete this section in it's entirety.

SECTION 264420 – PANELBOARDS

1. Paragraph 2.6.A.2: Delete the reference to main distribution panel "MDPM".

DRAWINGS ITEMS:

DRAWING SHEET E1.1

SITE PLAN – ELECTRICAL

1. Site Lighting Units: The numbers adjacent to each luminaire indicate the optical distribution type for each luminaire.

DRAWING SHEET E3.3

FLOOR PLAN AREA "B" – LIGHTING

1. Room 141: Provide an additional type "K8" luminaire at the southeast corner of the room.

DRAWING SHEET E3.4

FLOOR PLAN AREA "B" – POWER & SIGNAL

1. Exterior: Main Switchboard “MSB” shall be a Main Distribution Panel “MDP” in lieu of a switchboard. In order to accommodate construction phasing it may need to be pad mounted in lieu of mounted to the exterior wall of the gym.
2. Exterior: The chiller CH-1 is located just west of the utility transformer (see sheet M4.2 for location). Locate the chiller main disconnect switch on the exterior wall of the gym to the northeast of the chiller at the east end of the chiller.
3. Room 136: Provide two fire alarm smoke detectors. Center the fire alarm strobe on the west wall.
4. Room 141: See the attached revision drawing RE-1 dated 3-11-2014 for revised electrical layout.

#### DRAWING SHEET E3.6

##### FLOOR PLAN AREA “C” – POWER & SIGNAL

1. Room 158: Provide a clock on the east wall, just north of the door into room 159.
2. Room 158: Provide a wall mount telephone outlet at the east wall (just north of the clock).
3. Room 161: Provide a fire alarm heat detector.

#### DRAWING SHEET E4.1

##### SCHEDULES AND DETAILS

1. Power Riser Diagram: The available fault current at the chiller main disconnect switch “MDS-CH” is 46,100A.
2. Power Riser Diagram: The available fault current at main distribution panel “MPB” is 54,600A.
3. Power Riser Diagram: The available fault current at panel “A2” is less than 10,000A.
4. Power Riser Diagram: The available fault current at panel “B1” is 18,500A.
5. Power Riser Diagram: The available fault current at panel “B2” is less than 10,000A.
6. Power Riser Diagram: The available fault current at panel “C1” is 28,750A.
7. Power Riser Diagram: The available fault current at panel “D” is 18,800A.
8. See revised drawing for mechanical equipment schedule.

#### DRAWING SHEET E4.2

##### SCHEDULES

1. Lighting Fixture Schedule: The type “C2” luminaires does not need to be provided with the GTD device.
2. Lighting Fixture Schedule: The electrical contractor shall include a contractor allowance for each specified type “E3” luminaire as manufactured by Emergi-Lite. The allowance amount shall be \$605 and includes lamps and freight.
3. The type “H” luminaire shall be 6” LED (BETALED KR6-20L-40K-120/KR6T-SSGC-FF) or equal in lieu of compact fluorescent.
4. The type “HE” luminaire shall be 6” LED (BETALED KR6-20L-40K-120-EB7/KR6T-SSGC-FF) or equal in lieu of compact fluorescent.
5. Lighting Fixture Schedule: The electrical contractor shall include a contractor allowance for each specified type “Y” luminaire as manufactured by Stonco. The allowance amount shall be \$245 and includes lamps and freight.
6. Lighting Fixture Schedule: The electrical contractor shall include a contractor allowance for each specified type “Y1” luminaire as manufactured by Stonco. The allowance amount shall be \$330 and includes lamps and freight.
7. Lighting Fixture Schedule: The type “AA” site lighting unit shall have two luminaires at 180 degrees in lieu of a single luminaire, See the site plan for luminaire optical distribution types.

DRAWING SHEET E4.4  
DETAILS

1. MOA Surface Raceway Mounting Detail: Replace reference to section 16140 with section 261400, replace reference to section 16729 with section 277290, replace reference to section 16740 with section 277400.

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.

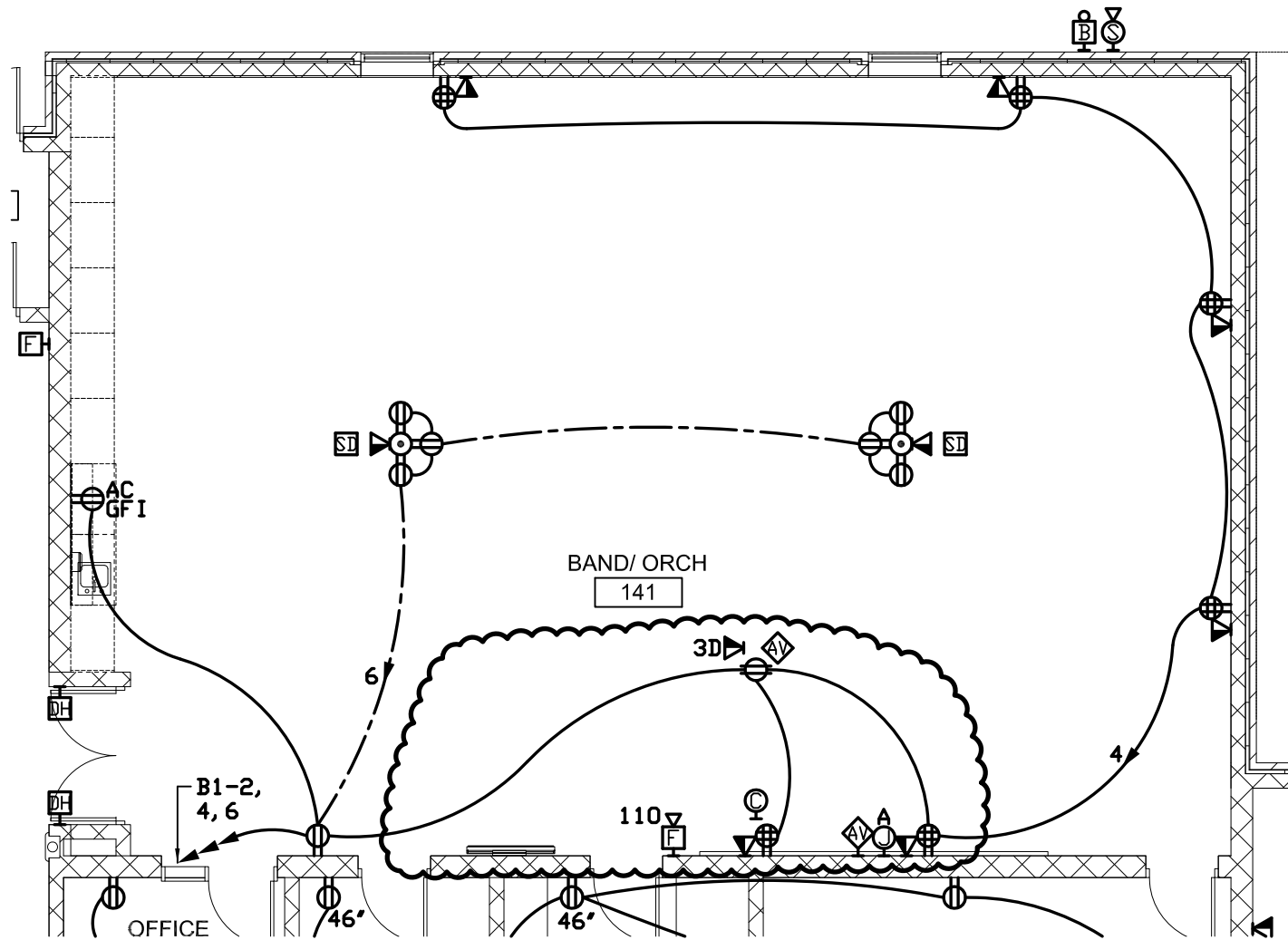
SECTION	ITEM	MANUFACTURER
261450	Lighting Controls Occupancy Sensors	Sensorswitch
265110	Interior Lighting Type A, AE, AF, A1, A1D, A1E, A1F, A1FE Type A2, A3, A3E Type B, BD, BE Type C, CE, C1, C1E, C2 Type D, DE, D1 Type E, E1 Type E2 Type E4 Type H, HE  Type J#, J#E, K#, K#E Type M, ME Type R Type U Type X	LSI, Williams LSI, Williams LSI, Williams LSI, Williams LSI, Williams Chloride, Lightalarms, LSI Lightalarms Lightalarms Atlantic, Prescolite, Vantage, Williams Alera, Pinnacle, Prudential Daybrite, LSI, Metalux, Williams Linear, LSI Legion, LSI, Metalux, Williams Atlantic, Prescolite, Vantage, Williams
265210	Exterior Lighting Type AA Type CC	Gardco, LSI, Williams Gardco, Invue, Juno, LSI (Stanchion Mount)
277350	Synchronized Wireless Master-Satellite Time System	Rauland

END OF ADDENDUM

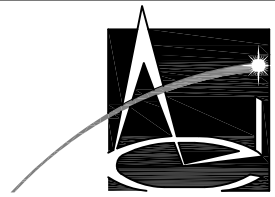
NO.	DESCRIPTION	KV	HP	MCA	VOLTS	PH	NOTES
1	CHILLER CH-1	-	-	485	208	3	1
2	AIR HANDLING UNIT AHU-1	-	10	-	208	3	2,3
3	AHU-2	-	15	-	208	3	2,3
4	AHU-3	-	10	-	208	3	2,3
5	AHU-4	-	5	-	208	3	3,4
6	FAN POWERED VAV FP-101	-	1/2	-	120	1	5
7	FP-107	-	1/2	-	120	1	5
8	FP-108	-	1/2	-	120	1	5
9	FP-120	-	1/2	-	120	1	5
10	FP-122	-	1/2	-	120	1	5
11	FP-124	-	1/2	-	120	1	5
12	FP-125	-	1/2	-	120	1	5
13	FP-129	-	1/2	-	120	1	5
14	FP-136	-	1/2	-	120	1	5
15	FP-137	-	1/2	-	120	1	3,5
16	FP-138	-	1/2	-	120	1	3,5
17	FP-141	-	1/2	-	120	1	5
18	FP-158	-	1/2	-	120	1	3,5
19	FP-158A	-	2X3/4	-	208	1	3,5
20	FP-158B	-	2X3/4	-	208	1	3,5
21	FP-165	-	1/2	-	120	1	5
22	FP-166	-	1/2	-	120	1	5
23	FP-170	-	1/2	-	120	1	5
24	FP-171	-	1/2	-	120	1	5
25	FP-174	-	1/2	-	120	1	5
26	FP-175	-	1/2	-	120	1	5
27	FP-176	-	1/2	-	120	1	5
28	FP-177	-	1/4	-	120	1	5
29	FP-178	-	1/2	-	120	1	5
30	FP-179	-	1/2	-	120	1	5
31	FP-180	-	1/2	-	120	1	5
32	FP-184	-	1/2	-	120	1	5
33	FP-185	-	1/2	-	120	1	5
34	FP-186	-	1/2	-	120	1	5
35	FP-187	-	1/2	-	120	1	5
36	FP-189	-	1/2	-	120	1	5
37	BOILER B-2	1.6	-	-	120	1	6
38	COOLING PUMP P-1	-	5	-	208	3	7
39	SEC. COOLING PUMP P-2	-	7.5	-	208	3	2
40	HEATING PUMP P-3	-	5	-	208	3	4
41	HEATING PUMP P-4	-	5	-	208	3	4
42	BOILER PUMP P-5	-	1.5	-	208	3	7
43	BOILER PUMP P-6	-	1.5	-	208	3	7
44	RE-CIRC PUMP P-7	-	1/12	-	120	1	8
45	RE-CIRC PUMP P-8	-	1/12	-	120	1	8
46	CABINET UNIT HEATER CUH-100	-	1/15	-	120	1	5
47	CUH-121	-	1/15	-	120	1	5
48	CUH-142	-	1/15	-	120	1	5
49	CUH-157	-	1/15	-	120	1	5
50	CUH-172	-	1/15	-	120	1	5
51	CUH-182	-	1/15	-	120	1	5
52	CUH-143	-	1/15	-	120	1	5
53	NOT USED.	-	-	-	-	-	-
54	EXHAUST FAN EF-105	.1	-	-	120	1	9
55	EF-126	-	1/4	-	120	1	5
56	EF-153	-	1/4	-	120	1	5
57	EF-156	.1	-	-	120	1	5
58	EF-158	-	3/4	-	120	1	10
59	EF-167	-	1/4	-	120	1	5
60	EF-200	.1	1/6	-	120	1	8
61	EF-188	.048	-	-	120	1	9

**NOTES:**

1. PROVIDE A NEMA 3R FUSED MAIN DISCONNECT SWITCH. CONTROL BY MECHANICAL CONTRACTOR (MC).
2. PROVIDE CONNECTION TO VFD/DISCONNECT AND UNIT. VFD/DISCONNECT AND CONTROL BY MC.
3. INTERLOCK UNIT WITH FIRE ALARM SYSTEM FOR SHUTDOWN UPON ALARM.
4. PROVIDE A NONFUSED DISCONNECT SWITCH AND CONNECTION TO VFD AND UNIT. CONTROL BY MC.
5. PROVIDE SINGLE POINT POWER CONNECTION. DISCONNECT AND CONTROL BY MC.
6. PROVIDE A MANUAL MOTOR STARTER WITH THERMAL OVERLOAD AND CONNECT TO MUSHROOM HEAD 'BOILER EMERGENCY OFF' PUSHBUTTON SWITCH AT EXIT OUT OF ROOM.
7. PROVIDE A COMBINATION MAGNETIC STARTER/NONFUSED DISCONNECT SWITCH WITH H. D. A., 2 N. D. AND 2 N. C. CONTACTS, AND PILOT LIGHTS. CONTROL BY MC.
8. PROVIDE A MANUAL MOTOR STARTER DISCONNECT SWITCH. CONTROL BY MC.
9. PROVIDE A MANUAL MOTOR STARTER DISCONNECT SWITCH AND INTERMATIC E1210W TIMER SWITCH FOR CONTROL.
10. PROVIDE A PILOT LIGHT SWITCH FOR CONTROL. DISCONNECT AT UNIT BY MC.




**N FLOOR PLAN - AREA B - POWER & SIGNAL**  
 SCALE 0 4 8 12 16



**Associated  
 Consulting  
 Engineering,  
 Incorporated**

PROJECT  
 Washington Elementary School  
 Huron School District  
 Huron South Dakota

PROJECT NO.  
**113059**  
 DATE  
**3-11-14**  
 DRAWN BY  
**BJS/ADP**

SHEET  
**RE-1**  
 1 OF 1