Sampson Construction Co., Inc.
3730 South 14th Street
Lincoln, NE 68502
Phone: (402) 434-5450
FAX: (402) 434-5466

Bid Bulletin #01

PROJECT: Skinner Early Childhood Center
Bid Package #4
Omaha, NE

DATE: November 24, 2014

This Bid Bulletin includes item 1-1 through 1-6. Each item shall be fully incorporated into the Bidding/Contract Documents and have the same force and effect as though originally included. Bidders shall acknowledge receipt of this Bid Bulletin on their bid.

Item 1-1 The Skinner Early Childhood Center project is a tax exempt project.

Item 1-2 Special attention is called to specification section 012300- Alternates. There are several alternates identified for this project and bidders shall submit pricing for all alternates that apply to their scope of work.

Item 1-3 The general conditions of the project and contract are based upon the AIA A201-2007.

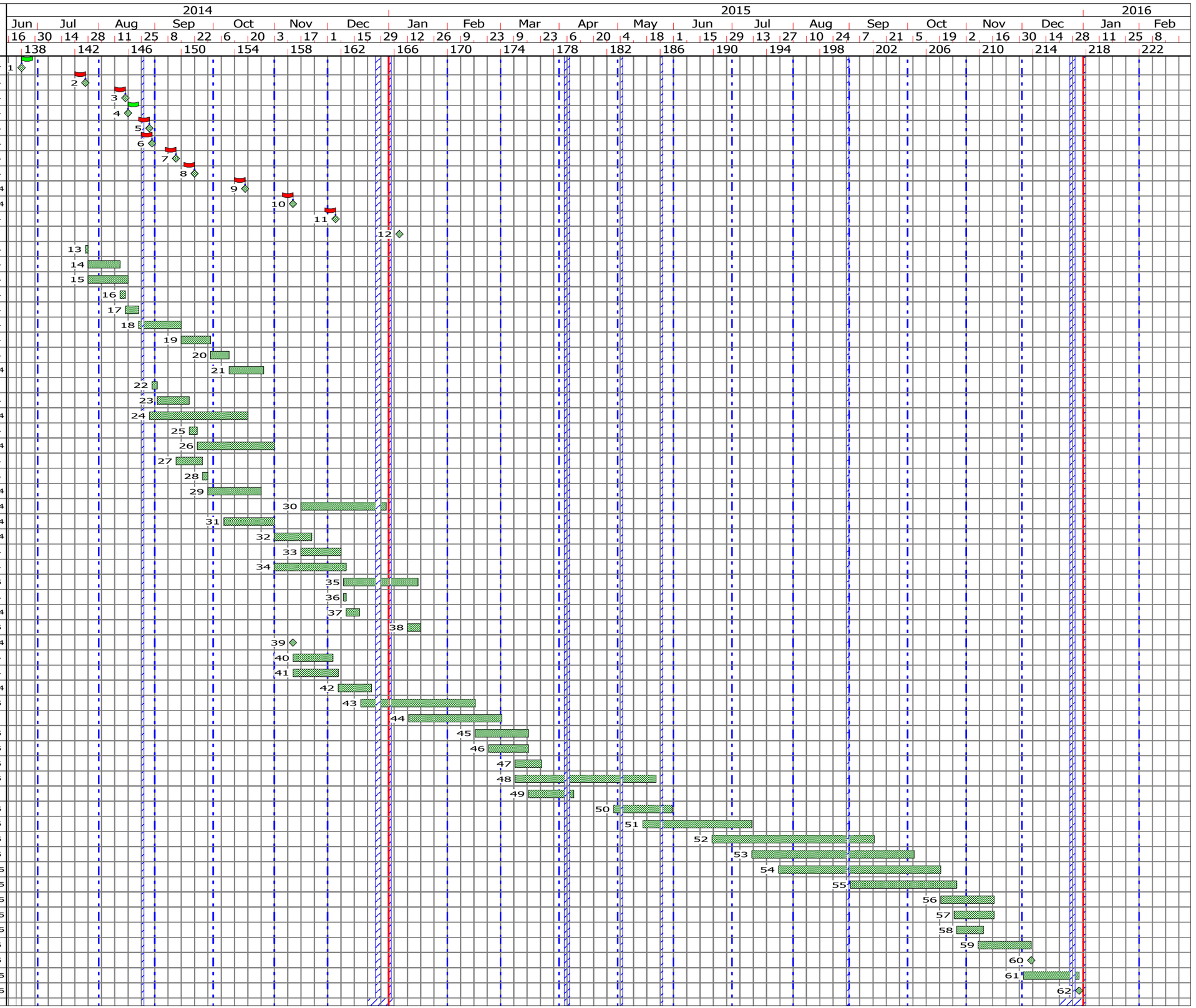
Item 1-4 A project schedule is attached for review by bidders.

Item 1-5 As a point of clarification, bid package #4 includes concrete outside of the building (paving, sidewalks, planters, benches). All building foundations and building slabs were bid in a previous bid package.

Item 1-6 Attached is Addendum E dated 11/21/14 from RDG Planning & Design.

END OF BID BULLETIN #01

Line	Name	Duration	Start	Finish
1	Start Design Development (DDs)		6/23/2014	6/23/2014
2	Issue Site Grading Bid Package #1		7/25/2014	7/25/2014
3	Publish 100% DDs		8/15/2014	8/15/2014
4	Start Construction Documents (CDs)		8/18/2014	8/18/2014
5	Issue Structural Permit Package		8/28/2014	8/28/2014
6	Issue Structural Bid Package #2		8/29/2014	8/29/2014
7	Issue Utillities Bid Package #3		9/11/2014	9/11/2014
8	75% CDs Owner Review Set Published		9/22/2014	9/22/2014
9	95% CDs Owner Review Set Published		10/17/2014	10/17/2014
10	Publish 100% CDs		11/12/2014	11/12/2014
11	Bid Final Package		12/4/2014	12/4/2014
12	Establish Final GMP		1/7/2015	1/7/2015
13	Bid Package #1 - Site Grading Package Issued	1d	7/25/2014	7/25/2014
14	Site Grading Out for Bid	2w 2d	7/28/2014	8/12/2014
15	Procure Site Grading Permit	3w	7/28/2014	8/15/2014
16	Site Grading Award	2d	8/13/2014	8/14/2014
17	Site Grading Paperwork/Submittals	1w	8/15/2014	8/21/2014
18	North Playground / Rain Delay	3w	8/22/2014	9/12/2014
19	Temporary Power / Fencing	2w 1d	9/15/2014	9/29/2014
20	Site Grading	1w 2d	9/30/2014	10/8/2014
21	Excavation/Final Site Grading	2w 3d	10/9/2014	10/27/2014
22	Structural Bid Package #2 Issued	2d	8/29/2014	9/1/2014
23	Structural Bid Package #2 Out for Bid	2w 2d	9/2/2014	9/17/2014
24	Procure Structural Permit - P&Z Variance Approval	7w 2d	8/28/2014	10/17/2014
25	Structural Package Awarded	3d	9/18/2014	9/22/2014
26	Structural Submittals	5w 4d	9/23/2014	10/31/2014
27	Site Utilities Bid Package #3 Out for Bid	2w	9/11/2014	9/24/2014
28	Site Utilities Awarded	2d	9/25/2014	9/26/2014
29	Site Utilities Submittals	4w	9/29/2014	10/24/2014
30	Site Utilities Installation	6w	11/17/2014	12/30/2014
31	Rebar Fab & Delivery	3w 4d	10/7/2014	10/31/2014
32	Foundations	2w 4d	11/3/2014	11/20/2014
33	Interior Masonry Storm Shelter	3w	11/17/2014	12/5/2014
34	Structural Steel Fab and Delivery	5w 2d	11/3/2014	12/9/2014
35	Structural Steel Erection	5w	12/9/2014	1/15/2015
36	Precast Erection (Storm Core)	1d	12/9/2014	12/9/2014
37	Precast Topping	1w	12/10/2014	12/16/2014
38	CIP Walls	1w	1/12/2015	1/16/2015
39	Bid Package #4 - Enclosure and Finishes Issued		11/12/2014	11/12/2014
40	Procure Building Permit	3w	11/12/2014	12/2/2014
41	Bid Package #4 Out for Bid	3w 2d	11/12/2014	12/4/2014
42	Bid Package #4 Awarded	2w 2.5d	12/5/2014	12/23/2014
43	Bid Package #4 Submittals	8w	12/17/2014	2/16/2015
44	Exterior Metal Framing	7w	1/12/2015	3/2/2015
45	MEP Building Underground	4w	2/16/2015	3/16/2015
46	Waterproofing	3w	2/23/2015	3/16/2015
47	Exterior Masonry	2w	3/9/2015	3/23/2015
48	Exterior "Skin" Finishes	10w	3/9/2015	5/21/2015
49	Pour Slabs	3w	3/16/2015	4/8/2015
50	Roofing	4w	4/29/2015	5/29/2015
51	Aluminum/Glass	8w	5/14/2015	7/10/2015
52	Interior Framing & Drywall	12w	6/19/2015	9/14/2015
53	Site Work	12w	7/10/2015	10/5/2015
54	Finishes	12w	7/24/2015	10/19/2015
55	MEP Trim Out	8w	9/1/2015	10/27/2015
56	Punchlist	4w	10/19/2015	11/16/2015
57	Final Cleaning	3w	10/26/2015	11/16/2015
58	AHJ Inspection Approvals	2w	10/27/2015	11/10/2015
59	State Health Department / Owner Inspection Approvals	4w	11/6/2015	12/4/2015
60	Substantial Completion		12/4/2015	12/4/2015
61	Owner Move In, Training, Final Owner Inspections	3w 4d	12/1/2015	12/30/2015
62	Final Completion		12/30/2015	12/30/2015



November 21, 2014

ADDENDUM E

TO DRAWINGS AND SPECIFICATIONS FOR:

Skinner Early Childhood Center
Omaha, Nebraska
RDG Project No. 2014.128.00, File 35.1

RDG Planning & Design
900 Farnam on the Mall, Suite 100
Omaha, NE 68102-5089
(402) 392-0133

This Addendum modifies the original Contract Documents and Project Manual dated November 10, 2014. Bidders must acknowledge receipt of the Addendum on the Bid Form.

The following separate packages have been/will be issued:

Site Grading and Preparation Package	July 25, 2104
Structural Package	August 28, 2014
Site Utilities Package	September 11, 2014
Final Construction Documents	November 10, 2014

Corresponding addenda:

Addendum A	August 6, 2014	Site Grading and Preparation Package
Addendum B	September 9, 2014	Structural Package
Addendum C	September 12, 2014	Structural Package
Addendum D (Post-Bid)	September 23, 2014	Structural Package
Addendum E	November 21, 2014	Final Construction Documents

Unless otherwise indicated, the work described herein shall comply with, and be equal in all respect to, the original Contract Specifications and Drawings. Include all incidental work required to properly complete the work whether stated herein or not.

ADDENDA TO THE PROJECT MANUAL

Civil Specification Items

No items this addendum.

Landscape Specification Items

ELS-1 Section 04 41 02 – Site Stone Materials, Page 04 41 02-2:

A. Paragraph 2.1, Subparagraph A: Add new Item 1 as follows:

1. Higgins Stone, Wamego, Kansas, is also an approved provider.

B. Paragraph 2.2, Subparagraph A: Add new Item 1 as follows:

1. Higgins Stone, Wamego, Kansas, is also an approved provider.

ELS-2 Section 12 93 00 – Site Equipment, Page 12 93 00-1, Paragraph 2.2, Subparagraph C: Item 1: Replace "#4854-Outdoor Storage Unit" with ***"#6902- Outdoor Storage Unit."***

Architectural Specification Items

EGS-1 Section 01 10 00 – Summary, Page 01 10 00-2, Paragraph 1.4, Subparagraph A, Item 1: Revise Sub-Item D to read:

d. Kitchen equipment will be supplied and installed by the Owner; any utilities connections shall be made under this contract.

EGS-2 Section 05 40 00 – Cold-Formed Metal Framing, Page 05 40 00-2, Paragraph 2.1, Subparagraph A: Add the following approved manufacturer:

A. Revise Item 3 to read:

3. MBA Metal Framing.

B. Add new Item 4 to read:

4. Approved equal.

EGS-3 Section 07 21 00 – Thermal Insulation, Page 07 21 00-2, Paragraph 2.2, Subparagraph A: Add the following approved manufacturer:

4. Knauf Insulation.

EGS-4 Section 07 72 00 – Roof Accessories:

A. Page 07 72 00-2, Paragraph 2.2, Subparagraph A, Item 1: Add the following approved manufacturer:

d. SafePro.

B. Page 07 72 00-3, Paragraph 2.2: Delete Subparagraph G and associated subparagraphs and replace with the following:

G. Safety Railing System: Roof-hatch manufacturer's standard system including rails, clamps, fasteners, safety barrier at railing opening, and accessories required for a complete installation; attached to roof hatch and complying with 29 CFR 1910.23 requirements and authorities having jurisdiction.

EGS-5 Section 07 27 26 – Fluid Applied Membrane Air Barriers, Page 07 27 26-2, Paragraph 2.3, Subparagraph A, Item 1:

A. Sub-Item a: Add the following approved manufacturer:

5) Dow Corning: DefendAir 200.

B. Sub-Item b: Add the following approved manufacturer:

7) Dow Corning: DefendAir 200.

EGS-6 Section 07 54 23 – Thermoplastic Polyolefin (TPO) Roofing, Page 07 54 23-3, Paragraph 2.1, Subparagraph A: Add the following approved manufacturer:

6. Versico LLC.

EGS-7 Section 08 41 13 – Aluminum-Framed Entrances and Storefronts:

A. Page 08 41 13-5, Paragraph 2.1, Subparagraph A: Add the following sub-items:

1. Approved Manufacturers and Products:

a. Kawneer:

1) Exterior 451T VG Front Plane (2" x 4-1/2").
2) Interior 450 (1-3/4" x 4-1/2").

b. Manko:

1) Exterior 2450FS (2" x 4-1/2").
2) Interior 1450 (2" x 4-1/2").

c. Oldcastle:

1) Exterior Series 3000 Multi-Plane Front Set (2" x 4-1/2").
2) Interior Series 2000 (1-3/4" x 4-1/2").

B. Page 08 41 13-7, Paragraph 2.5, Subparagraph A, Item 2: Add the following sub-items:

b. Approved Manufacturers and Products:

1) Kawneer 500 wide stile door:
2) Manko 150 wide stile door.
3) Oldcastle WS 500 wide stile door.

EGS-8 Section 08 44 13 – Glazed Aluminum Curtain Walls, Page 08 44 13-4, Paragraph 2.1, Subparagraph A: Add the following sub-items:

1. Approved Manufacturers and Products:

a. Kawneer, 1600UT System I (2-1/2").
b. Manko, 250xpt Outside Glaze Curtain Wall (2-1/2").
c. Oldcastle, Reliance Curtain Wall (2-1/2").

EGS-9 Section 08 80 00 – Glazing:

A. Page 08 80 00-8, Paragraph 2.15:

1. Subparagraph A, Item 3: Replace text in parenthesis to read, ***"(PPG Solarban 60, clear, or AGC Energy Select 40 clear)."***

2. Subparagraph B, Item 3: Replace text in parenthesis to read, ***"(PPG Solarban 60, clear, or AGC Energy Select 40 clear)."***

3. Subparagraph C, Item 2: Replace text in parenthesis to read, ***"(PPG Solarban 60, clear, or AGC Energy Select 40 clear)."***

B. Page 08 80 00-9, Paragraph 2.17, Subparagraph A, Item 3: Replace text in parenthesis to read, ***"(PPG Solarban 60, clear, or AGC Energy Select 40 clear)***"

Structural Specification Items

No items this addendum.

Mechanical Specification Items

EMS-1 Section 22 10 05 – Plumbing Piping, Page 22 10 05-5, Paragraph 1.6, Subparagraph H: Delete second sentence in its entirety. (All pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute and listed by NSF International.)

EMS-2 Section 23 09 13.53 – Variable-Frequency Motor Controllers for HVAC: Add new section. See attached Pages 23 09 13.53-1 through 23 09 13.53-6.

EMS-3 Section 23 33 00 – Air Duct Accessories, Page 23 33 00-5, Paragraph 2.6, Paragraph A: Add the following approved manufacturer:

17. Leader Ind.

EMS-4 Section 23 34 23 – HVAC Power Ventilators, Page 23 34 23-2, Paragraph 2.1: Add the following approved manufacturer:

H. Captivaire.

EMS-5 Section 23 81 01 – Terminal Heat Transfer Units: Add new section. See attached Pages 23 81 01-1 through 23 81 01-2.

EMS-6 Section 23 81 27 – Small Split System Heating and Cooling, Page 23 81 27-2, Paragraph 2.1: Add the following approved manufacturer:

H. LG.

Electrical Specification Items

No items this addendum.

ADDENDA TO THE DRAWINGS

Civil Drawing Items

No items this addendum.

Landscape Drawing Items

ELD-1 Sheet L3.01: Add text notes as clouded on Site Layout Plan. Replace sheet in its entirety with updated Sheet L3.01 dated 11-21-2014.

Architectural Drawing Items

EGD-1 Sheet A01.01 – Floor Plan:

A. Reverse swing direction of Doors 191, 193.1, 193.2, 194.1, 194.2, and 201.

B. Remove furred out walls in Corridor 193. See attached Supplemental Drawing SDA-004.

EGD-2 Sheet A02.01 – Enlarged Plans, Details B1, B2, B4, C1, and C4: Replace “CT-1 4" WALL BASE” to read:

BASE AS SCHEDULED.

EGD-3 Sheet A02.02 – Enlarged Plans:

A. Detail A2: Provide RB-2 wall base at 101 Gather side of reception desk; provide RB-1 on 102 Reception side of reception desk. See attached Supplemental Drawing SDA-005.

B. Detail A5.1: Replace “CLEAR TEMPERED GLASS PANEL; MAINTAIN FLUSH TOP SURFACE” to read:

3/4” CLEAR ACRYLIC, MAINTAIN FLUSH TOP SURFACE.

C. Details B1, B2.1, and B2.2: Replace "BASE AS SCHEDULED" to read: ***"RB-2."***

D. Details C1, C2, D5, E1, and E2: Replace "PLAM-1 BENCH W/ TEMPERED GLASS" to read:

PLAM-1 BENCH W/ 3/4" CLEAR ACRYLIC.

EGD-4 Sheet A04.01 – Roof Plan:

A. Roof Plan: Add text note to locate overflow scupper and add detail references for roof drain/scupper and roof curb as shown on attached Supplemental Drawing SDA-003.

B. Roof Drain Detail: Update Detail B1 vertical dimension text to read:

3" MIN. INSULATION AT ROOF DRAIN.

EGD-5 Sheet A07.04 – Wall Sections: Add scupper detail. See SDA-006.

EGD-6 Sheet A10.01 – Door Schedule, Doors 193.1 and 194.1: Update door jamb detail to reference B1/A10.02.

EGD-7 Sheet A10.02 – Door/Window Details:

A. Add Detail B1. See attached Supplemental Drawing SDA-002.

B. Detail C3: Update bond beam to 10" block. See attached Supplemental Drawing SDA-002.

EGD-8 Sheet A11.01 – Finish Schedule:

A. Room Finish Notes: Add suffix to Note 18 to read:

TYPICAL AT ALL TRANSITIONS BETWEEN WC-1 AND PAINT.

B. Room Schedule, Room 101 – Gather: Update base finish to read ***"CT-1/RB-2."***

EGD-9 Sheet A13.01 – Interior Elevations and Details:

A. Interior Elevations B1 and D1: Update text note "…HARDWOOD SPINNERS FASTENED TO 3X3 LAZY SUSAN BEARING ON MDF PANEL FASTENED TO GYP BD WALL" to read:

…HARDWOOD SPINNERS FASTENED TO 3X3 LAZY SUSAN BEARING ON FLUSH WD PANEL FASTENED TO GYP BD WALL.

B. Interior Elevations A1, B1, C1, and D1: Add note:

NOTE: FOR CONTROL JOINT LOCATIONS AT HM FRAME DOORS, SEE A00.10.

EGD-10 Sheet A130.02 – Interior Elevations and Details, Interior Elevations B1, C2, and D2: Add the following note:

NOTE: FOR CONTROL JOINT LOCATIONS AT HM FRAME DOORS, SEE A00.10.

EGD-11 Sheet A13.04 – Millwork Details, Details A4, A5, A6, C2, C3, C4, C5, D1, D2, D3, D4, D5, D6, E1, E2, and E3: Provide dimension and note updates as shown. Completely replace Sheet A13.04 in its entirety.

Structural Drawing Items

No items this addendum.

Mechanical Drawing Items

EMD-1 Sheet P4.0 – Plumbing Details: Revise irrigation system connection point to be located outside of building. See revisions as indicated on attached Mechanical Sketch Sheet SDP-001.

EMD-2 Sheet M5.0 – Mechanical Schedules:

A. Revise mechanical schedule to include notes indicating two stage compressors and ECM motors as designed. See revisions as indicated on attached Supplemental Drawing SDM-001.

B. Revise HP-25 and HP-26 model numbers. See revisions as indicated on attached Supplemental Drawing SDM-001.

Electrical Drawing Items

EED-1 Sheet E0.1 – Electrical Site Plan: Revise Flag Note 4 to indicate that trenching and conduit has been installed. Revise to read:

EXISTING TRENCHING AND PRIMARY CONDUIT FROM OPPD POWER POLE TO TRANSFORMER.

See attached Supplemental Drawing SDE-001.

EED-2 Sheet E5.0 – Electrical Details and Power Riser Diagram: Revise note on riser diagram at utility transformer to indicate that pad has been installed and protective bollards are still to be provided. Revise to read:

EXISTING UTILITY TRANSFORMER PAD. PROVIDE PROTECTIVE BOLLARDS PER OPPD REQUIREMENTS.

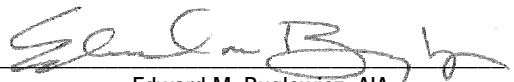
See attached Supplemental Drawing SDE-002.

EED-3 Sheet E6.0 – Electrical Schedules: Revise information for HP-25 to reflect changes. Circuit breaker is 35/3 and disconnect is 60/3. See attached Supplemental Drawing SDE-003.

EED-4 Sheet E6.1 – Electrical Schedules: Revise Panel Schedule 'M' to reflect changes to HP-25. The circuit breaker for HP-25 is now 35/3. See attached Supplemental Drawing SDE-004.

ALL OTHER REQUIREMENTS OF THE PLANS AND SPECIFICATIONS REMAIN IN EFFECT. THIS ADDENDUM SHALL BE ATTACHED AND MADE A PART OF THE PLANS AND SPECIFICATIONS.

RDG PLANNING & DESIGN

By 

Edward M. Buglewicz, AIA
for RDG Schutte Wilscam Birge, Inc.

END OF ADDENDUM E

SMS/jm

Enclosure:
Specification Section 23 09 13.53 – Variable-Frequency Motor Controllers for HVAC
Specification Section 23 81 01 – Terminal Heat Transfer Units
Supplemental Drawings SDA-002, SDA-003, SDA-004, SDA-005, and SDA-006
Supplemental Drawing SDP-001
Supplemental Drawing SDM-001
Supplemental Drawings SDE-001, SDE-002, SDE-003, and SDE-004
Sheet A13.04 – MILLWORK DETAILS
Sheet L3.01 – SITE LAYOUT PLAN

SECTION 23 09 13.53 - VARIABLE-FREQUENCY MOTOR CONTROLLERS FOR HVAC

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Variable frequency controllers.

1.2 REFERENCE STANDARDS

A. NEMA ICS 7.1 - Safety Standards for Construction and Guide for Selection, Installation, and Operation of Adjustable Speed Drive Systems; National Electrical Manufacturers Association; 2006.

B. NEMA ICS 7 - Industrial Control and Systems: Adjustable-Speed Drives; National Electrical Manufacturers Association; 2006.

C. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); National Electrical Manufacturers Association; 2008.

D. NFPA 70 - National Electrical Code; National Fire Protection Association; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.3 SUBMITTALS

A. Product Data: Provide catalog sheets showing voltage, controller size, ratings and size of switching and overcurrent protective devices, short circuit ratings, dimensions, and enclosure details.

B. Shop Drawings: Indicate front and side views of enclosures with overall dimensions and weights shown; conduit entrance locations and requirements; and nameplate legends.

C. Specification Compliance Review.

D. Test Reports: Indicate field test and inspection procedures and test results.

E. Manufacturer's Field Reports: Indicate start-up inspection findings.

F. Operation Data: NEMA ICS 7.1. Include instructions for starting and operating controllers, and describe operating limits that may result in hazardous or unsafe conditions.

G. Maintenance Data: NEMA ICS 7.1. Include routine preventive maintenance schedule.

H. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. Extra Air Filters: Two of each type.
   2. Spare Fuses: Three of each size and type installed.
   3. Indicating Lights: Two of each type installed.

1.4 QUALITY ASSURANCE

A. Conform to requirements of NFPA 70.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years experience and with service facilities within 100 miles (160 km) of Project.

C. Products: Listed and classified by Underwriters Laboratories Inc. or testing firm acceptable to the authority having jurisdiction as suitable for the purpose specified and indicated.

D. Coordinate features of VFCs and accessory devices with pilot devices and control circuits to which they connect.

E. Coordinate features, accessories, and functions of each VFC and each installed unit with ratings and characteristics of supply circuit, motor, required control sequence, and duty cycle of motor and load.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store in a clean, dry space. Maintain factory wrapping or provide an additional heavy canvas or heavy plastic cover to protect units from dirt, water, construction debris, and traffic.

B. Handle in accordance with manufacturer's written instructions. Lift only with lugs provided for the purpose. Handle carefully to avoid damage to components, enclosure, and finish.

PART 2 PRODUCTS

2.1 PERFORMANCE, CAPACITIES AND CHARACTERISTICS

A. See Drawings for Equipment Schedules with Equipment Performance Requirements when capacities and characteristics are not indicated in the specifications.

2.2 MANUFACTURERS

A. ABB Inc.; www.abb.us/drives

B. Danfoss: www.danfossdrives.com

C. Reliance Electric/Rockwell Automation: www.rockwellautomation.com/relianceelectricdrives

D. Siemens Energy & Automation: www.sea.siemens.com.

E. Schneider Electric; Square D Products: www.schneider-electric.us.

F. Toshiba International Corporation: www.toshiba.com

G. Yaskawa America Inc.: www.yaskawa.com

2.3 DESCRIPTION

A. Variable Frequency Controllers: Enclosed HVAC controllers suitable for operating the indicated loads, in conformance with requirements of NEMA ICS 7. Select unspecified features and options in accordance with NEMA ICS 3.1.
   1. Employ microprocessor-based inverter logic isolated from power circuits.
   2. Employ pulse-width-modulated inverter system.
   3. Design for ability to operate controller with motor disconnected from output.
   4. Design to attempt five automatic restarts following fault condition before locking out and requiring manual restart.
   5. Provide unit suitable for operation of premium-efficiency motor as defined by NEMA MG 1.

B. Enclosures: NEMA 250, Type 1, suitable for equipment application in places restricted to persons employed on the premises.
   1. Provide NEMA outdoor rated enclosure where indicated on plans.

C. Finish: Manufacturer's standard enamel.

2.4 OPERATING REQUIREMENTS

A. Rated Input Voltage: As indicted on drawings.

B. Input Frequency Tolerance: 60 Hz, plus or minus 6 percent.

C. Displacement Power Factor: Between 1.0 and 0.95, lagging, over entire range of operating speed and load.

D. Overload Capability: 1.1 times the base load current for 60 seconds; 2.0 times the base load current for 3 seconds.

E. Operating Ambient: 0 degrees C to 40 degrees C.

F. Minimum Efficiency at Full Load: 96 percent.

G. Starting Torque: 100 percent of rated torque or as indicated.

H. Speed Regulation: Plus or minus 1 percent.

I. Volts Per Hertz Adjustment: Plus or minus 10 percent.

J. Current Limit Adjustment: 60 to 110 percent of rated.

K. Acceleration Rate Adjustment: 0.5 to 30 seconds.

L. Deceleration Rate Adjustment: 1 to 30 seconds.

M. Input Signal: 4 to 20 mA DC.

N. Adjustable carrier frequency.

2.5 COMPONENTS

A. Display: Provide integral digital display to indicate output voltage, output frequency, and output current.

B. Status Indicators: Separate indicators for overcurrent, overvoltage, ground fault, overtemperature, and input power ON.

C. HAND-OFF-AUTOMATIC selector switch and manual speed control.

D. Self-Protection and Reliability Features:
   1. Input transient protection by means of surge suppressors.
   2. Undervoltage and overvoltage trips; inverter overtemperature, overload, and overcurrent trips.
   3. Motor Overload Relay: Adjustable and capable of NEMA 250, Class 20 performance.
   4. Notch filter to prevent operation of the controller-motor-load combination at a natural frequency of the combination.
   5. Phase failure protection.
   6. Phase reversal protection.
   7. Short-circuit protection.
   8. Motor overtemperature fault

E. Input Line Conditioning: DC link reactor or 3 percent impedance line reactor to minimize power line harmonics.

F. VFC Output Filtering: Dampened, low pass KLC output filter manufactured by TCI of Milwaukee, Wisconsin. Filter amperage shall match drive amperage. Provide for each VFC which exceeds the manufacturer's maximum recommended lead length from its controlled motor.

G. Control Power Source: Separate circuit.

H. Control Signal Interface:
   1. Electric Input Signal Interface: A minimum of 2 analog inputs (0 to 10 V or 0/4-20 mA) and 6 programmable digital inputs.
   2. Output Signal Interface:
      a. A minimum of 1 analog output signal (0/4-20 mA), which can be programmed to any of the following:
         1) Output frequency (Hz).
         2) Output current (load).
         3) DC-link voltage (VDC).
         4) Motor torque (percent).
         5) Motor speed (rpm).
         6) Set-point frequency (Hz).
      b. User Interlock Terminal Strip: Connections for life safety functions, freeze, and external start/stop. All interlocks and start/stop contacts shall remain fully functional whether drive is in auto or bypass position.

I. Historical Logging Information and Displays:
   1. Real-time clock with current time and date.
   2. Running log of total power versus time.
   3. Total run time.
   4. Fault log, maintaining last four faults with time and date stamp for each.

J. Door Interlocks: Furnish mechanical means to prevent opening of equipment with power connected, or to disconnect power if door is opened; include means for defeating interlock by qualified persons.

K. Safety Interlocks: Furnish terminals for remote contact to inhibit starting under both manual and automatic mode.

L. Control Interlocks: Furnish terminals for remote contact to allow starting in automatic mode.

M. Emergency Stop: Use dynamic brakes for emergency stop function.

N. Disconnecting Means: Include integral fused disconnect switch or circuit breaker on the line side of each controller.

O. Wiring Terminations: Match conductor materials and sizes indicated.

2.6 SOURCE QUALITY CONTROL

A. Shop inspect and perform standard productions tests for each controller.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that surface is suitable for controller installation.

B. Do not install controller until building environment can be maintained within the service conditions required by the manufacturer.

3.2 INSTALLATION

A. Install in accordance with NEMA ICS 7.1 and manufacturer's instructions.

B. Install each VFC in accordance with manufacturer’s recommendations. Installation shall be the responsibility of the Contractor supplying the controller.

C. Do not mount VFCs on vibrating equipment. Provide supplementary supports as required.

D. Install free-standing VFCs on concrete bases.

E. Tighten accessible connections and mechanical fasteners after placing controller.

F. Provide fuses in fusible switches; refer to Section 26 28 13 for product requirements.

G. Select and install overload heater elements in motor controllers to match installed motor characteristics.

H. Provide engraved plastic nameplates; refer to Section 26 05 53 for product requirements and location.

I. Clean VFCs internally, on completion of installation, according to manufacturer’s written instructions. Vacuum dirt and debris; do not use compressed air.

3.3 FIELD QUALITY CONTROL

A. Provide the service of the manufacturer's field representative to prepare and start controllers.

3.4 ADJUSTING

A. Make final adjustments to installed controller to assure proper operation of load system. Obtain performance requirements from installer of driven loads.

B. Set overload relay to correspond to the full load amps of the connected motor.

C. Lock out critical speeds as required to avoid noise and vibration.

3.5 CLOSEOUT ACTIVITIES

A. Engage a factory-authorized service representative to train Owner’s maintenance personnel to adjust, operate, and maintain VFCs.

B. Provide a minimum of two hours of on-site instruction for the Owner’s designated representative regarding the proper operation of each drive. Instruction shall be done at the convenience of the Owner. Instruction shall include a description of the functions of all indicators and controls and a demonstration of the following:
   1. Normal operating procedures - automatic mode.
   2. Normal starting, stopping and speed control procedures - manual mode.

3. Bypass mode operation.
4. Emergency shutdown.

END OF SECTION

SECTION 23 81 01 - TERMINAL HEAT TRANSFER UNITS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Electric heaters.

1.2 SUBMITTALS

A. See Section 01 33 00 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide typical catalog of information including arrangements.

C. Manufacturer's Instructions: Indicate installation instructions and recommendations.

D. Operation and Maintenance Data: Include manufacturers descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listings.

E. Warranty: Submit manufacturer's warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.

B. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated.

1.4 WARRANTY

A. See Section 01 77 00 - Closeout Procedures, for additional warranty requirements.

PART 2 PRODUCTS

2.1 ELECTRIC UNIT HEATERS

A. Manufacturers:
1. INDEECO (Industrial Engineering and Equipment Company): www.indeeco.com.
2. Berko
3. Marley Engineered Products: www.marleymep.com.
4. Substitutions: See Section 01 60 00 - Product Requirements.

B. Assembly: UL listed and labelled assembly with terminal box and cover, and built-in controls.

C. Heating Elements: Enclosed copper tube, aluminum finned element of coiled nickel-chrome resistance wire centered in tubes and embedded in refractory material.

D. Cabinet: 0.0478 inch (1.2 mm) steel with easily removed front panel with integral air outlet and inlet grilles.

E. Element Hangers: Quiet operating, ball bearing cradle type providing unrestricted longitudinal movement, on enclosure brackets.

F. Fan: Direct drive propeller type, statically and dynamically balanced, with fan guard.

G. Motor: Permanently lubricated, sleeve bearings for horizontal models, ball bearings for vertical models.

H. Control: Separate fan speed switch and thermostat heat selector switch, factory wired, with switches built-in behind cover. Provide thermal overload.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install equipment exposed to finished areas after walls and ceiling are finished and painted. Do not damage equipment or finishes.

C. Cabinet Unit Heaters: Install as indicated. Coordinate to assure correct recess size for recessed units.

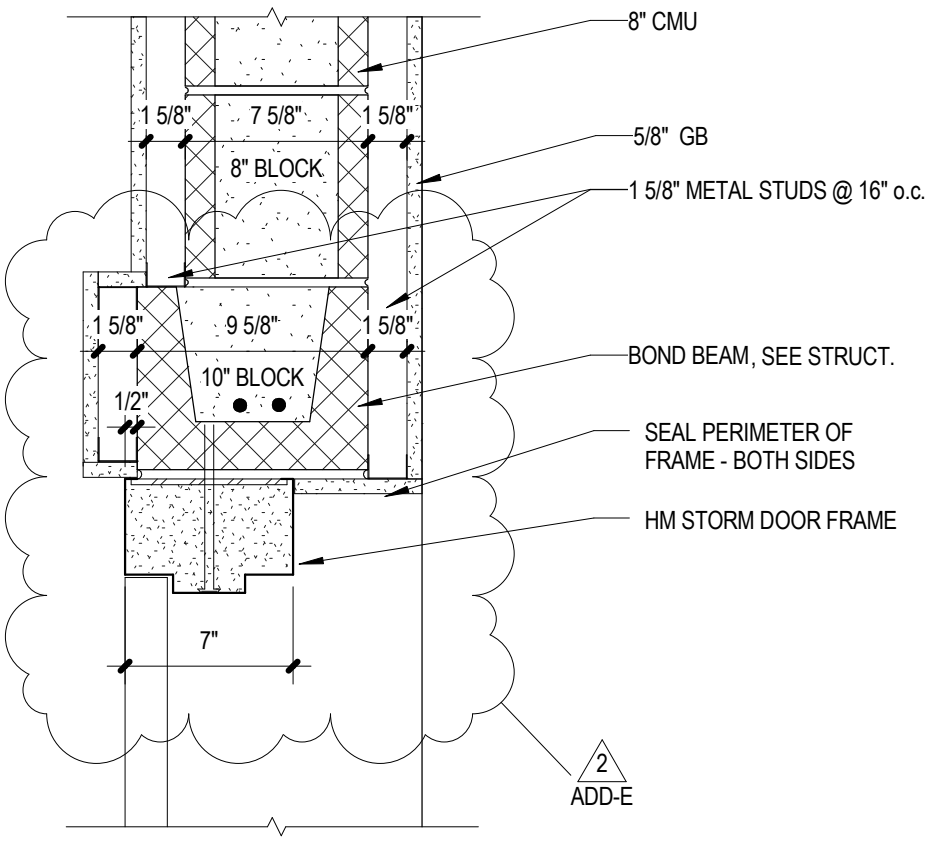
D. Install electric heating equipment including devices furnished by manufacturer but not factory-mounted. Furnish copy of manufacturer's wiring diagram submittal. Install electrical wiring in accordance with manufacturer's submittals and Section 26 27 17.

3.2 CLEANING

A. After construction is completed, including painting, clean exposed surfaces of units. Vacuum clean coils and inside of cabinets.

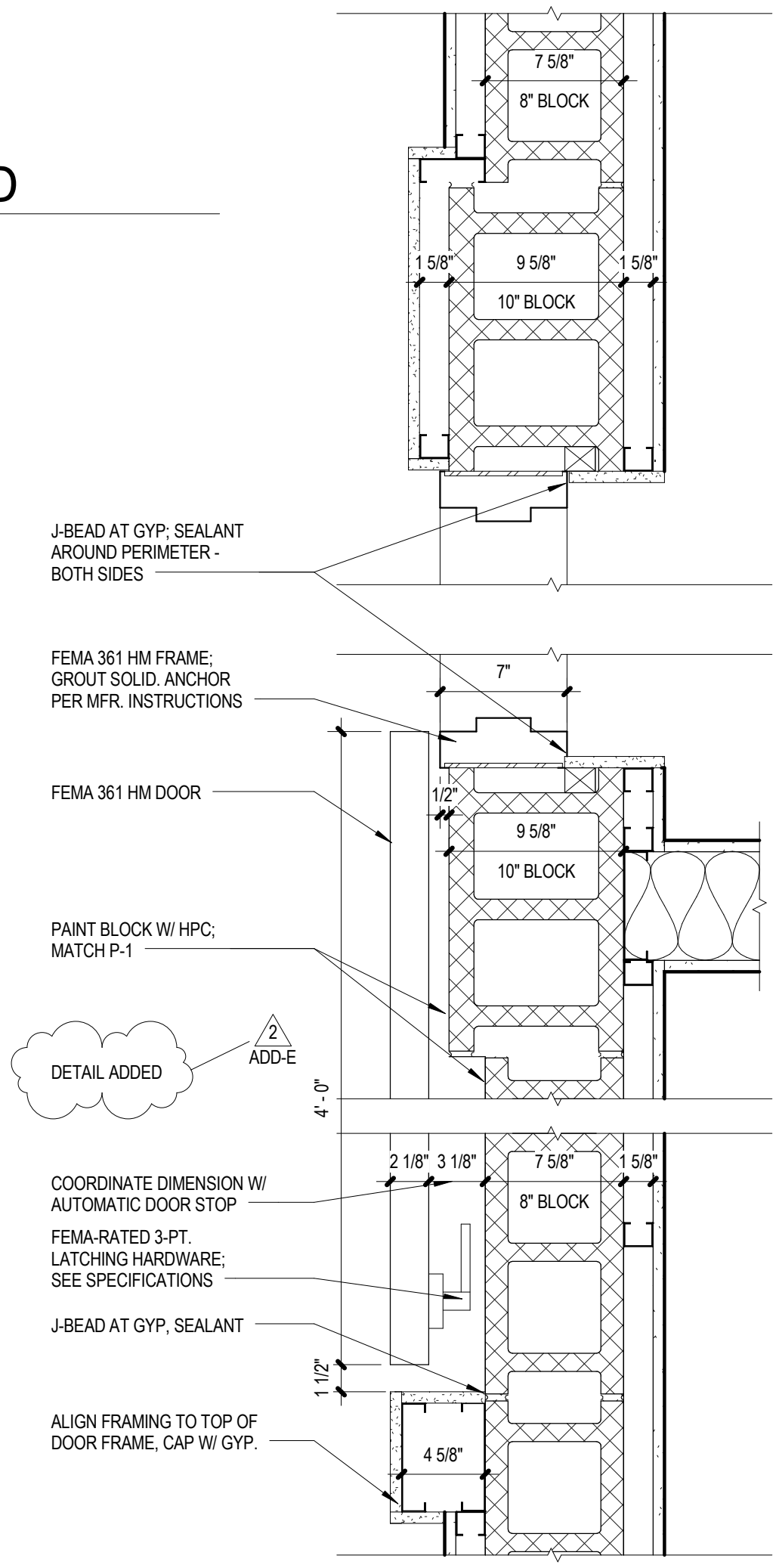
B. Touch-up marred or scratched surfaces of factory-finished cabinets, using finish materials furnished by manufacturer.

END OF SECTION



C3 HM STORM DOOR HEAD

1 1/2" = 1'-0"



B1 DOOR DETAIL

1 1/2" = 1'-0"

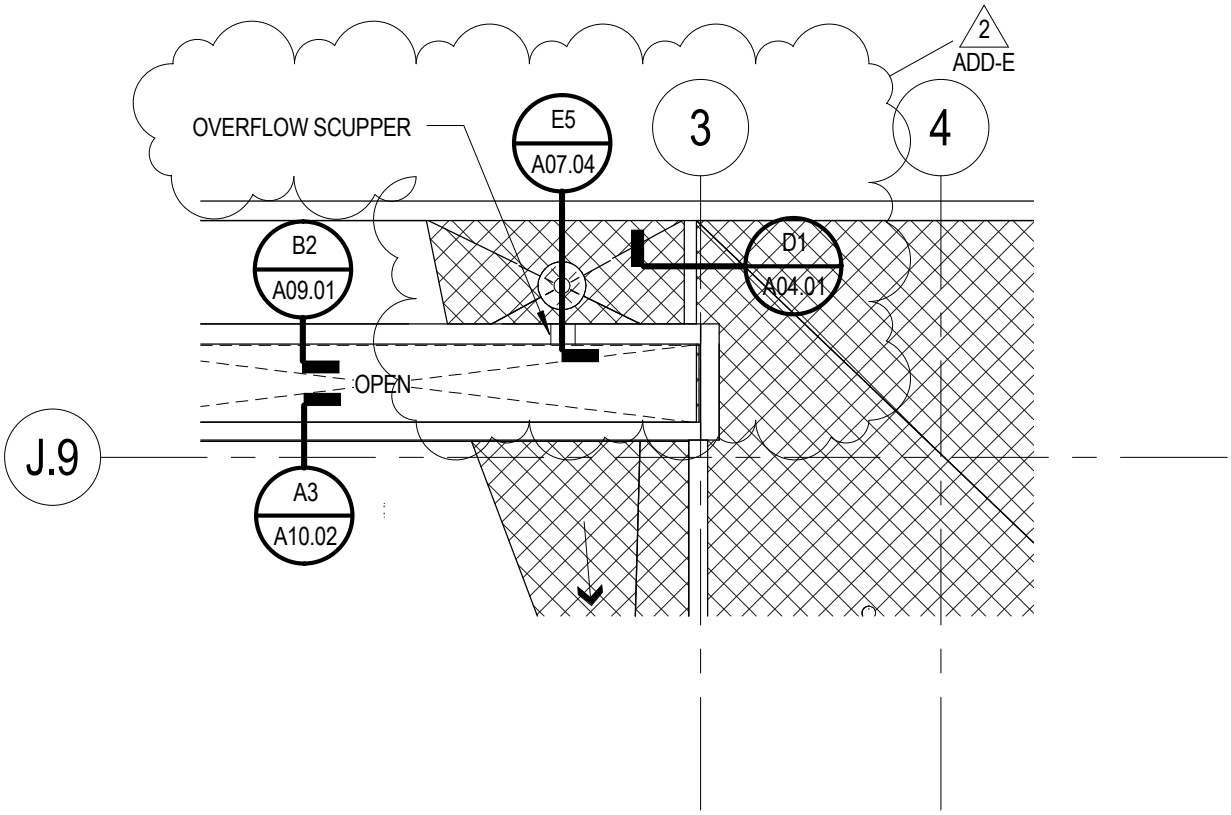
RDg... PLANNING ● DESIGN

Project Number:	Date:	Add to Sheet:	Drawing:
2014.128.00	11/17/14	A10.02	SDA-02

ADD-E

SKINNER EARLY CHILDHOOD CENTER

BUFFETT EARLY CHILDHOOD FUND



ROOF PLAN

1/8" = 1'-0"

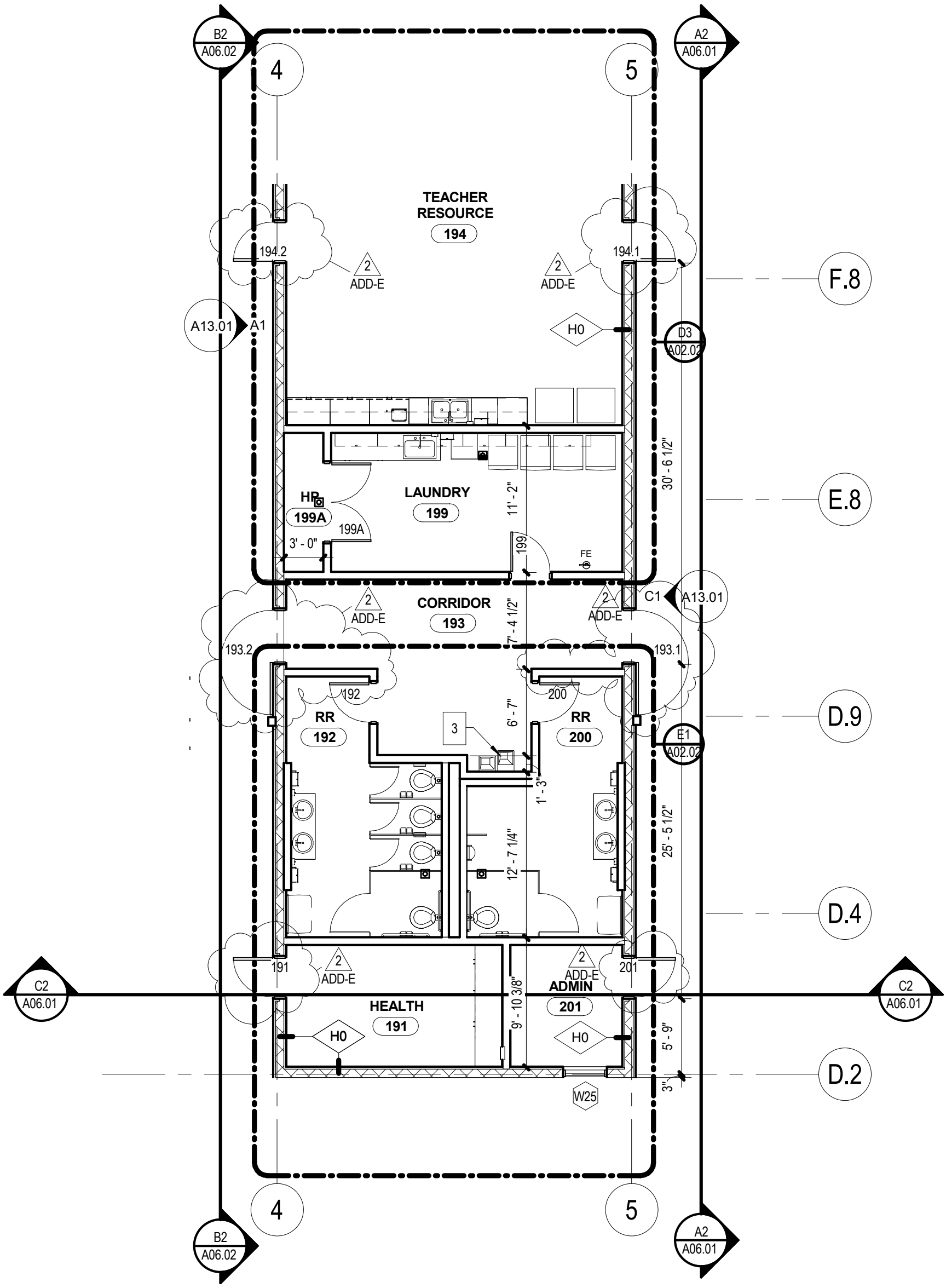
Project Number:	Date:	Change to Sheet:	Drawing:
2014.128.00	11/18/14	A04.01	SDA-003

RDg... PLANNING ● DESIGN

SKINNER EARLY CHILDHOOD CENTER

ADD-E

BUFFETT EARLY CHILDHOOD FUND



FLOOR PLAN

1/8" = 1'-0"

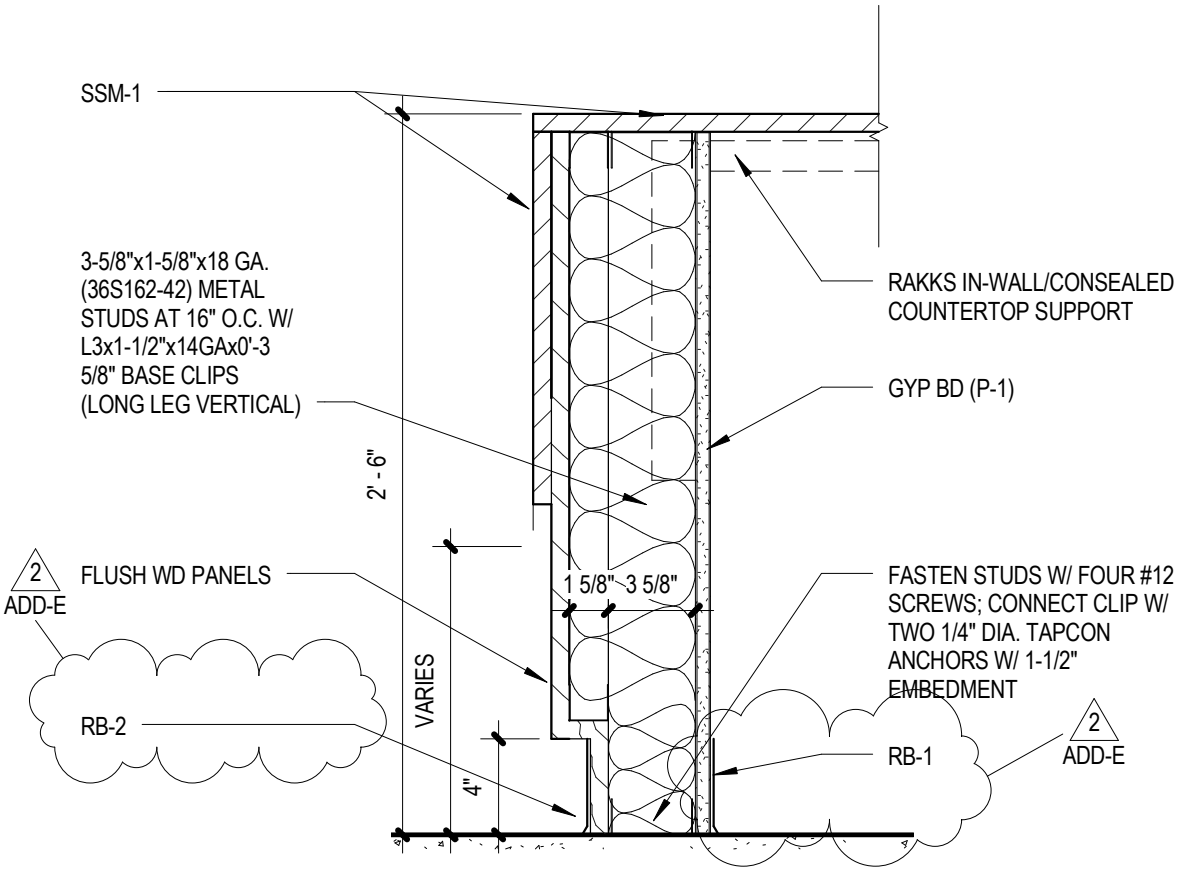
RDg... PLANNING ● DESIGN

Project Number:	Date:	Add to Sheet:	Drawing:
2014.128.00	11/19/14	A01.01	SDA-004

ADD-E

SKINNER EARLY CHILDHOOD CENTER

BUFFETT EARLY CHILDHOOD FUND



A2 SECTION - DESK

1 1/2" = 1'-0"

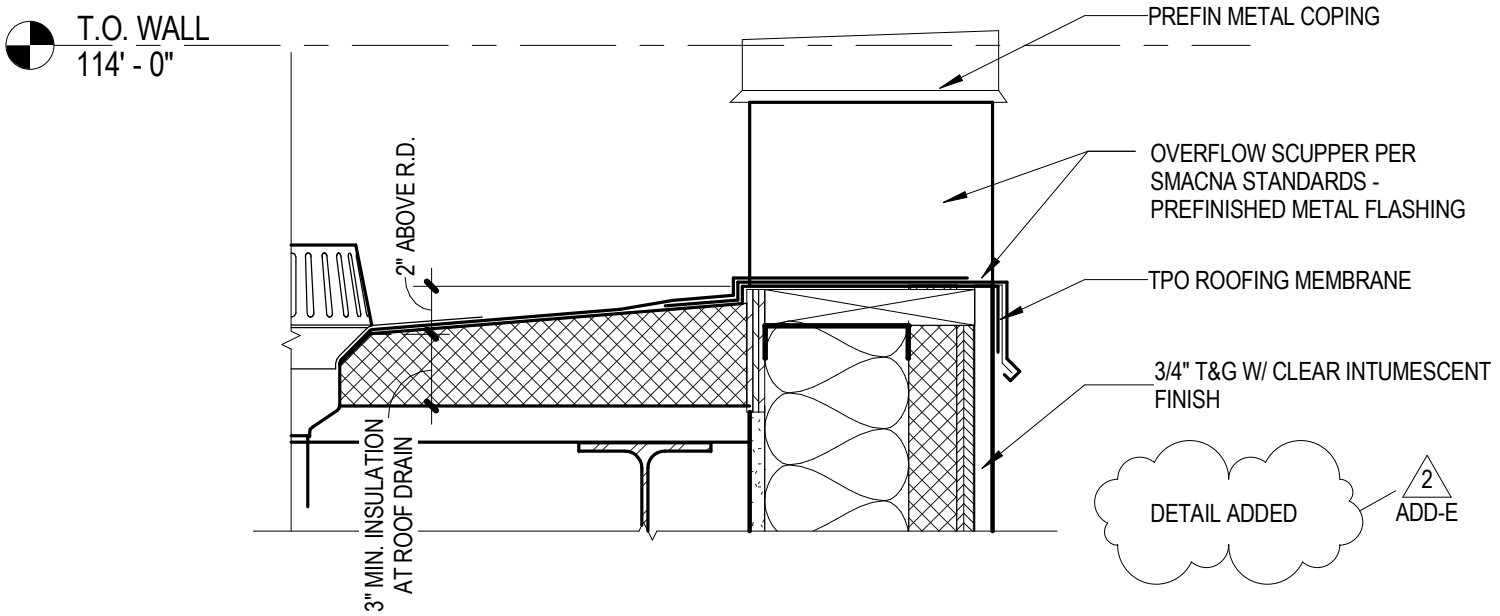
Project Number:	Date:	Change to Sheet:	Drawing:
2014.128.00	11/20/14	A02.03	SDA-005

RDg... PLANNING ● DESIGN

SKINNER EARLY CHILDHOOD CENTER

ADD-E

BUFFETT EARLY CHILDHOOD FUND



E5 ROOF SCRUPER DETAIL

1 1/2" = 1'-0"

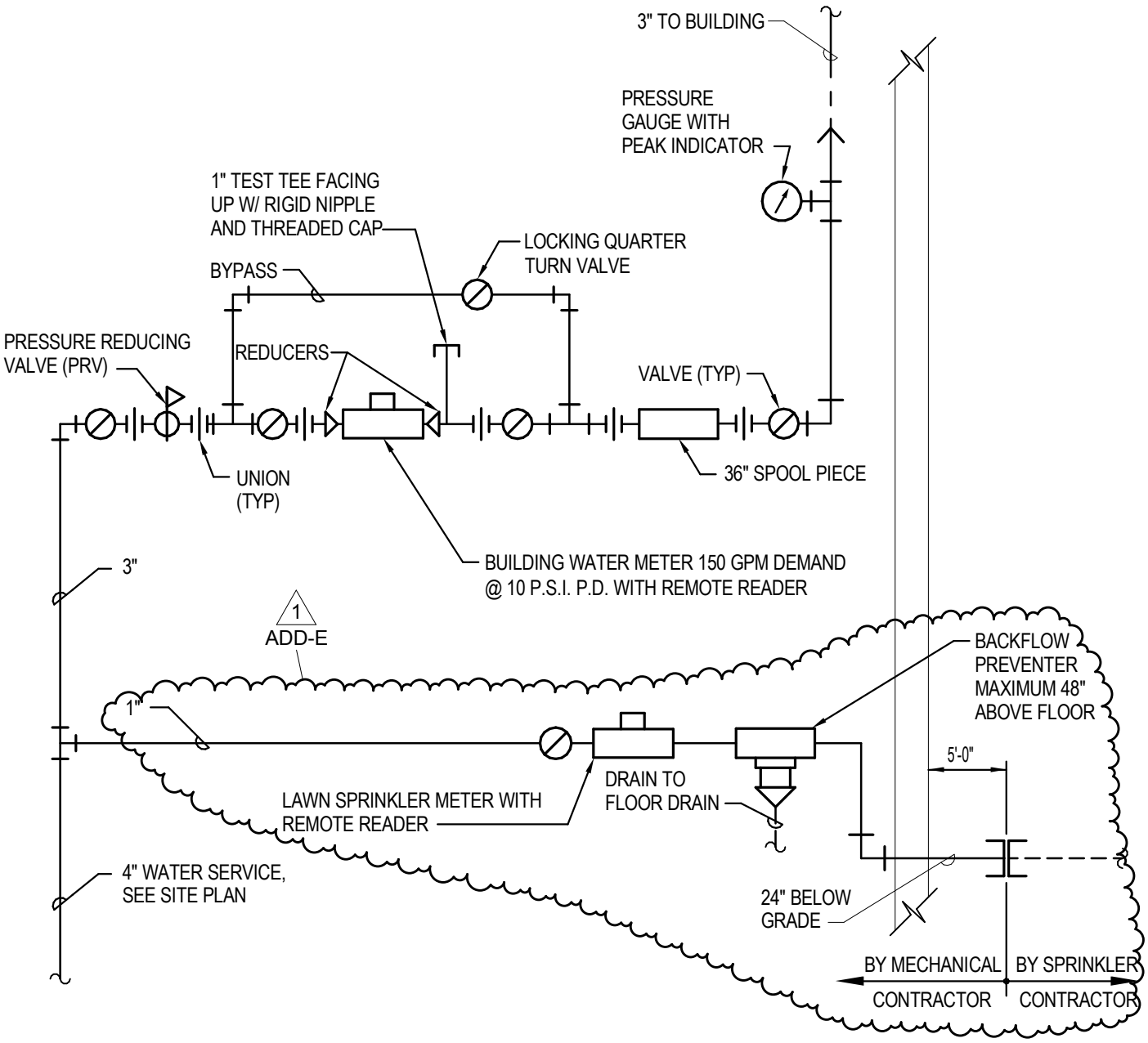
RDg PLANNING ● DESIGN

Project Number:	Date:	Change to Sheet:	Drawing:
2014.128.00	11/21/14	A07.04	SDA-006

SKINNER EARLY CHILDHOOD CENTER

ADD-E

BUFFETT EARLY CHILDHOOD FUND



WATER METER WITH LAWN SPRINKLER

NO SCALE

1
P4.0

Project Number:	Date:	Change to Sheet:	Drawing:
2014.128.00	11/20/14	P4.0	SDP-001

RDg... PLANNING ● DESIGN

SKINNER EARLY CHILDHOOD CENTER

ADD-E

BUFFETT EARLY CHILDHOOD FUND

WATER SOURCE HEAT PUMP SCHEDULE

MARK		HP-1	HP-2	HP-3	HP-4	HP-5	HP-6	HP-7	HP-8	HP-9	HP-10	HP-11	HP-12	HP-13	HP-14	HP-15	HP-16	HP-17	HP-18	HP-19	HP-20	HP-21	HP-22	HP-23	HP-24	HP-25	HP-26
CONFIGURATION		HORIZONTAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL
AIR FLOW (CFM)		950	500	500	500	600	950	1500	500	600	600	600	350	350	600	600	500	600	600	500	750	500	600	500	600	1050	750
EXT. SP (IN. W.C.)		0.5	0.4	0.4	0.4	0.5	0.5	0.75	0.4	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.75	0.4	0.5	0.4	0.5	0.6	0.5
CONDENSER WATER GPM		7.5	3.8	3.8	3.8	4.5	7.5	12.0	3.8	4.5	4.5	4.5	3.0	3.0	4.5	4.5	3.8	4.5	4.5	3.8	6.0	3.8	4.5	3.8	4.5	10.5	7.5
MAX. WPD (FEET)		7.6	5.2	5.2	5.2	4.2	7.6	12.2	5.2	4.2	4.2	4.2	5.6	5.6	4.2	4.2	5.2	4.2	4.2	5.2	15.2	5.2	4.2	5.2	4.2	11.9	7.6
CONDENSER WATER RUNOUT SIZE		3/4	1/2	1/2	1/2	3/4	3/4	1	1/2	3/4	3/4	3/4	1/2	1/2	3/4	3/4	1/2	3/4	3/4	1/2	3/4	1/2	3/4	1/2	3/4	1	3/4
COOLING DATA	TOTAL COOLING (MBH)	29.9	15.0	15.0	15.0	18.7	29.9	47.8	15.0	18.7	18.7	18.7	11.7	11.7	18.7	18.7	15.0	18.7	18.7	15.0	23.5	15.0	18.7	15.0	18.7	42.1	29.3
	SENSIBLE COOLING (MBH)	19.9	10.8	10.8	10.8	13.5	19.9	33.5	10.8	13.5	13.5	13.5	7.3	7.3	13.5	13.5	10.8	13.5	13.5	10.8	16.9	10.8	13.5	10.8	13.5	30.1	18.3
	EWT (F°)	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
	LWT (F°)	95.0	94.9	94.9	94.9	95.2	95.0	94.9	94.9	95.2	95.2	95.2	94.7	94.7	95.2	95.2	94.9	95.2	95.2	94.9	94.8	94.9	95.2	94.9	95.2	93.6	94.4
	MIN. EER (1)	13.7	14.6	14.6	14.6	15.2	13.7	13.9	14.6	15.2	15.2	15.2	14.1	14.1	15.2	15.2	14.6	15.2	15.2	14.6	13.7	14.6	15.2	14.6	15.2	15.1	14.4
HEATING DATA	HEATING (MBH)	35.4	17.0	17.0	17.0	20.9	35.4	53.0	17.0	20.9	20.9	20.9	13.1	13.1	20.9	20.9	17.0	20.9	20.9	17.0	27.3	17.0	20.9	17.0	20.9	48.1	34.7
	EWT (F°)	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	LWT (F°)	52.7	53.0	53.0	53.0	52.8	52.7	53.0	53.0	52.8	52.8	52.8	53.5	53.5	52.8	52.8	53.0	52.8	52.8	53.0	52.9	53.0	52.8	53.0	52.8	53.1	52.9
	MIN. COP (1)	4.3	4.4	4.4	4.4	4.4	4.3	4.7	4.4	4.4	4.4	4.4	3.9	3.9	4.4	4.4	4.4	4.4	4.4	4.4	4.5	4.4	4.4	4.4	4.4	4.1	4.2
ELECTRICAL DATA	VOLTS	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208	208
	PHASE	3	1	1	1	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	3	3
	WIRE SIZING AMPS	14.8	8.5	8.5	8.5	15.2	14.8	22.7	8.5	15.2	15.2	15.2	7.0	7.0	15.2	15.2	8.5	15.2	15.2	8.5	12.0	8.5	15.2	8.5	15.2	23	14.8
	FUSE/BREAKER AMPS	20	15	15	15	20	20	35	15	20	20	20	15	15	20	20	15	20	20	15	15	15	20	15	20	35	20
DIMENSIONS (LxWxH) (IN)		44x21x19	22x22x39	22x22x39	22x22x39	26x23x45	22x22x40	33x24x46	22x22x39	26x23x45	26x23x45	26x23x45	22x23x35	22x23x35	26x23x45	26x23x45	22x22x39	26x23x45	26x23x45	22x22x39	22x22x40	22x22x39	26x23x45	22x22x39	26x23x45	26x22x45	22x22x40
OPERATING WEIGHT (LBS)		182	153	153	153	252	182	263	153	252	252	252	160	160	252	252	153	252	252	153	174	153	252	153	252	220	200
MANUFACTURER		CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER	CLIMATEMASTER
MODEL NUMBER		TY030	TC015	TC015	TC015	TS018	TY030	TY048	TC015	TS018	TS018	TS018	TS012	TS012	TS018	TS018	TC015	TS018	TS018	TC015	TY024	TC015	TS018	TC015	TS018	TY042	TY030
REMARKS		(2) (3) (4)	(2)	(2)	(2)	(2) (4)	(2) (3) (4)	(2) (3) (4)	(2)	(2) (4)	(2) (4)	(2) (4)	(2)	(2)	(2) (4)	(2) (4)	(2)	(2) (4)	(2) (4)	(2)	(2) (3) (4)	(2)	(2) (4)	(2)	(2) (4)	(2) (3) (4)	(2) (3) (4)

REMARKS:

(1.) MINIMUM EER AND COP RATING ACCORDING TO ARI-ISO-13256-1.

(2.) PROVIDE WATER-LEVEL DETECTION DEVICE IN PRIMARY DRAIN PAN TO SHUT DOWN UNIT AND ALARM THE BUILDING MANAGEMENT SYSTEM IN THE EVENT THAT THE PRIMARY DRAIN BECOME BLOCKED. LOCATE SENSOR AT POINT ABOVE THE PRIMARY DRAIN LINE PER CODE REQUIREMENTS.

(3.) PROVIDE UNIT WITH 2-STAGE COMPRESSOR.

(4.) PROVIDE WITH ECM MOTOR.

1
ADD-E

RDg... PLANNING ● DESIGN

Project Number: 2014.128.00 | Date: 11/20/14 | Add to Sheet: M5.0 | Drawing: SDM-001

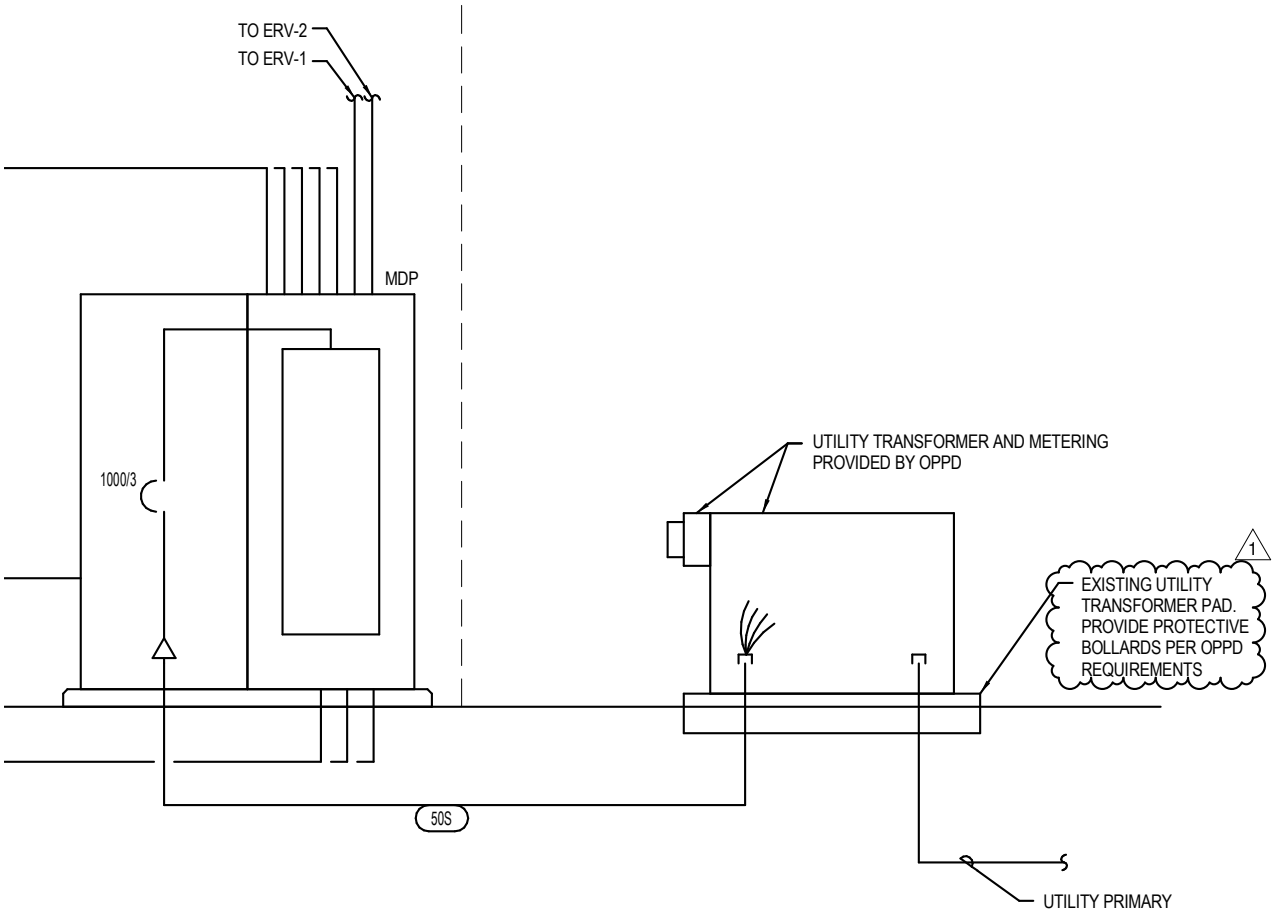
ADD-E

SKINNER EARLY CHILDHOOD CENTER

BUFFETT EARLY CHILDHOOD FUND

FLAG NOTES

1. APPROXIMATE LOCATION OF SKINNER ELEMENTARY MAIN TELECOMMUNICATIONS ROOM. REFER TO DETAIL 7/T2.0 FOR ADDTIONAL INFORMATION.
2. EXISTING 3" SPARE CONDUIT TERMINATED BEYOND BUILDING FOUNDATION. CONTRACTOR SHALL INSTALL TRACER WIRE VIA ACCESSIBLE END OF CONDUIT AND VERIFY EXACT PATH OF CONDUIT.
3. PROVIDE 4" CONDUIT PATHWAY FROM MAIN TELECOMMUNICATIONS ROOM AT LEARNING CENTER AND TERMINATE IN NEW HANDHOLE. EXTEND EXISTING 3" CONDUIT FROM SKINNER ELEMENTARY AND TERMINATE IN NEW HANDHOLE. SEE DETAIL 3/E0.1 FOR ADDTIONAL INFORMATION.
4. EXISTING TRENCHING AND PRIMARY CONDUIT FROM OPPD POWER POLE TO TRANSFORMER. 1
5. CONNECT FIRE SPRINKLER PIV. ROUTE WIRES IN CONDUIT. TRANSITION TO RGS CONDUIT ABOVE GRADE. COORDINATE EXACT LOCATION WITH SPRINKLER CONTRACTOR.
6. 'E' INDICATES EXISTING POLE TO REMAIN.
7. CONDUIT STUBBED INTO LIGHT POLE FOR CCTV CABLE. RUN CONDUIT UNDERGROUND AND STUB UP IN BUILDING. ROUTE TO NEAREST CABLE TRAY. REFER TO DETAIL 7/T2.1.
8. CONNECT EXTERIOR SITE LIGHTING TO PHOTOCELL CONTROL. SEE 5/E5.0 FOR CONNECTION DETAIL. CONTROL CIRCUITS PHOTOCELL ON/PHOTOCELL OFF. PROVIDE PHOTOCELL FOR PHOTOCELL CONTROL. MOUNT 24" ABOVE ROOF ON RIGID STEM AND AIM NORTH.



RDg...
PLANNING ● DESIGN

Project Number:	Date:	Change to Sheet:	Drawing:
2014.128.00	11/21/14	E5.0	SDE-002

SKINNER EARLY CHILDHOOD CENTER

ADD-E

BUFFETT EARLY CHILDHOOD FUND

HP-23	HEAT PUMP		15/3	208	3	30/3	1	4
HP-24	HEAT PUMP		20/3	208	3	30/3	1	4
HP-25	HEAT PUMP		35/3	208	3	60/3	1	4
HP-26	HEAT PUMP		20/3	208	3	30/3	1	4
KEF-1	EXHAUST FAN	1	15/3	208	3	INTEGRAL	1	
KMAU-1	MAKEUP AIR UNIT (FAN)	2	15/3	208	3	INTEGRAL	1	
KMAU-1	MAKEUP AIR UNIT (COMPRESSOR)	-	20/3	208	3	INTEGRAL	1	
P-1A	HP LOOP SUCTION PUMP	5	-	208	3	VFC-P-1A	3	1
P-1B	HP LOOP SUCTION PUMP	5	-	208	3	VFC-P-1B	3	1
P-2A	CT LOOP INLINE PUMP	2	-	208	3	COMBO STARTER	1	
P-2B	CT LOOP INLINE PUMP	2	-	208	3	COMBO STARTER	1	
VFC-CT-1	VARIABLE FREQUENCY CONTROLLER	-	60/3	208	3	INTEGRAL	7	
VFC-P-1A	VARIABLE FREQUENCY CONTROLLER	-	40/3	208	3	INTEGRAL	5	
VFC-P-1B	VARIABLE FREQUENCY CONTROLLER	-	40/3	208	3	INTEGRAL	5	

1

NOTES:

1. PROVIDE FUSIBLE DISCONNECT UNLESS OTHERWISE NOTED. FUSE DISCONNECTS PER MANUFACTURER'S RECOMMENDATIONS.

REMARKS:

1. ROUTE CIRCUIT THRU ASSOCIATED VFC.
2. PROVIDE POWER TO AIR CONDITIONER FROM ASSOCIATED CONDENSING UNIT. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR EXACT REQUIREMENTS.
3. CONNECT FAN TO CIRCUIT BREAKER PROVIDED WITH BATTERY INVERTER SYSTEM.
4. PROVIDE UNI-STRUT SUPPORT AND MOUNT DISCONNECT AT FRONT OF EQUIPMENT CLOSET TO MAINTAIN REQUIRED NEC AND HVAC CLEARANCES. COORDINATE EXACT LOCATION IN FIELD WITH MECHANICAL EQUIPMENT.

PANEL M

208/120V	3 PHASE 4 WIRE	SURFACE MOUNTED	
225 AMP	MLO W/GROUND BAR		
27,000	AMPS AVAIL FAULT		
60 POLES	ONE SECTION	SOURCE	MDP

DESCRIPTION	LOAD VA	REMARKS	O/C	CKT #	PH	CKT #	O/C	REMARKS	LOAD VA	DESCRIPTION
HP-19	946		15/3	1	A	2	60/3		3272	CT-1
-			-	3	B	4	-			-
-			-	5	C	6	-			-
HP-24	1745		20/3	7	A	8	40/3		2258	P-1A
-			-	9	B	10	-			-
-			-	11	C	12	-			-
HP-25	2595		35/3	13	A	14	40/3		2258	P-1B
-			-	15	B	16	-			-
-			-	17	C	18	-			-
SPACE				19	A	20	20/3		1433	P-2A
SPACE				21	B	22	-			-
SPACE				23	C	24	-			-
SPACE				25	A	26	20/3		1433	P-2B
SPACE				27	B	28	-			-
SPACE				29	C	30	-			-
B-1A	500		20/1	31	A	32	20/1		500	GWH-1
B-1B	500		20/1	33	B	34	20/1		500	GWH-2
MECH 109 REC	540		20/1	35	C	36	20/1		180	ROOFTOP REC
MECH 109 REC	540		20/1	37	A	38	20/1		180	ROOFTOP REC
MECH 109 REC	720		20/1	39	B	40	20/1		180	ROOFTOP REC
AC-1/CU-1			15/2	41	C	42	20/1		300	CP-1
-			-	43	A	44	20/1		300	CP-2
EUH-4	3000		20/2	45	B	46	20/1		800	BMS CONTROL PANEL
-			-	47	C	48	20/1		750	LAWN IRRIGATION CONTROL
				49	A	50				
				51	B	52				
SPARE			20/1	53	C	54	20/1			SPARE
SPARE			20/1	55	A	56	20/1			SPARE
SPARE			20/1	57	B	58	20/1			SPARE
SPARE			20/1	59	C	60	20/1			SPARE

1

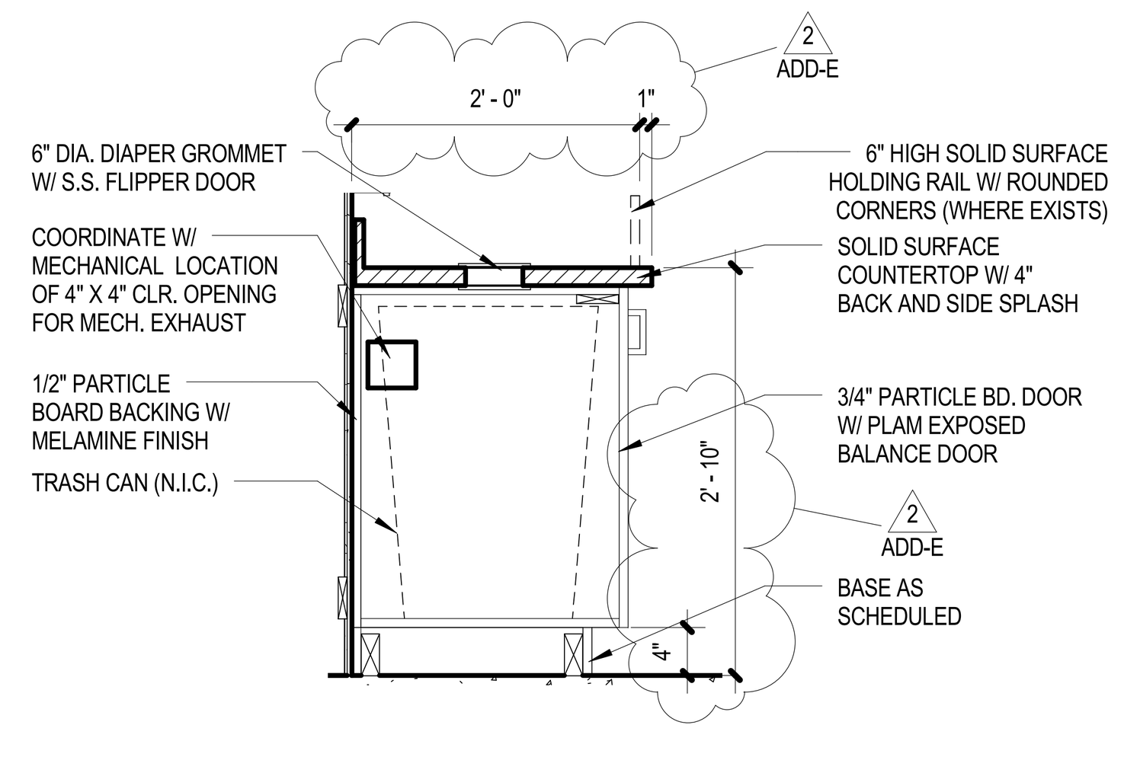
RDg... PLANNING ● DESIGN

Project Number: 2014.128.00 | Date: 11/21/14 | Change to Sheet: E6.1 | Drawing: SDE-004

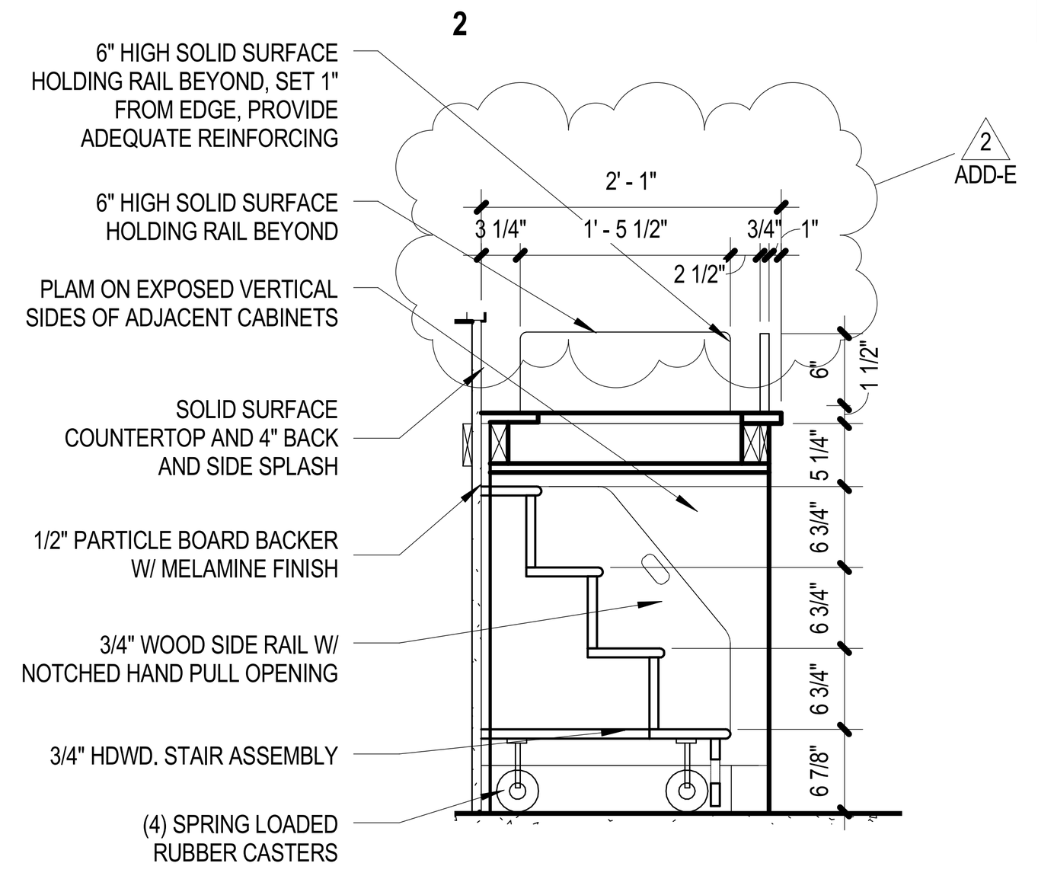
SKINNER EARLY CHILDHOOD CENTER

ADD-E

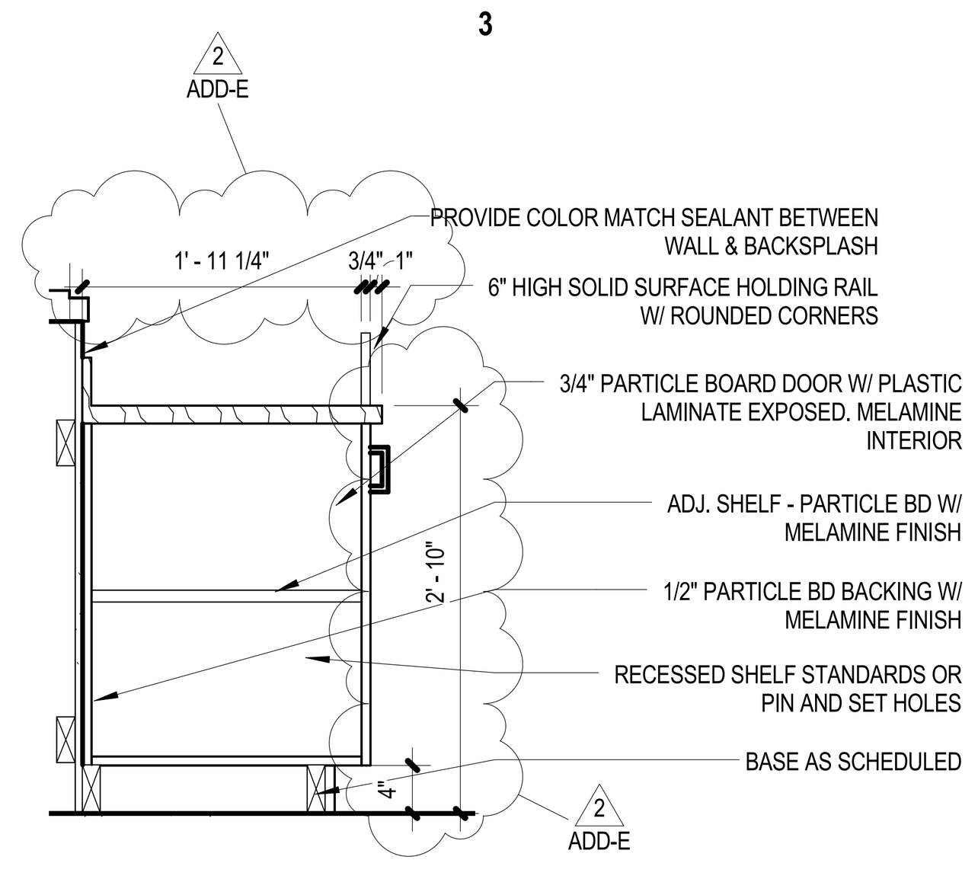
BUFFETT EARLY CHILDHOOD FUND



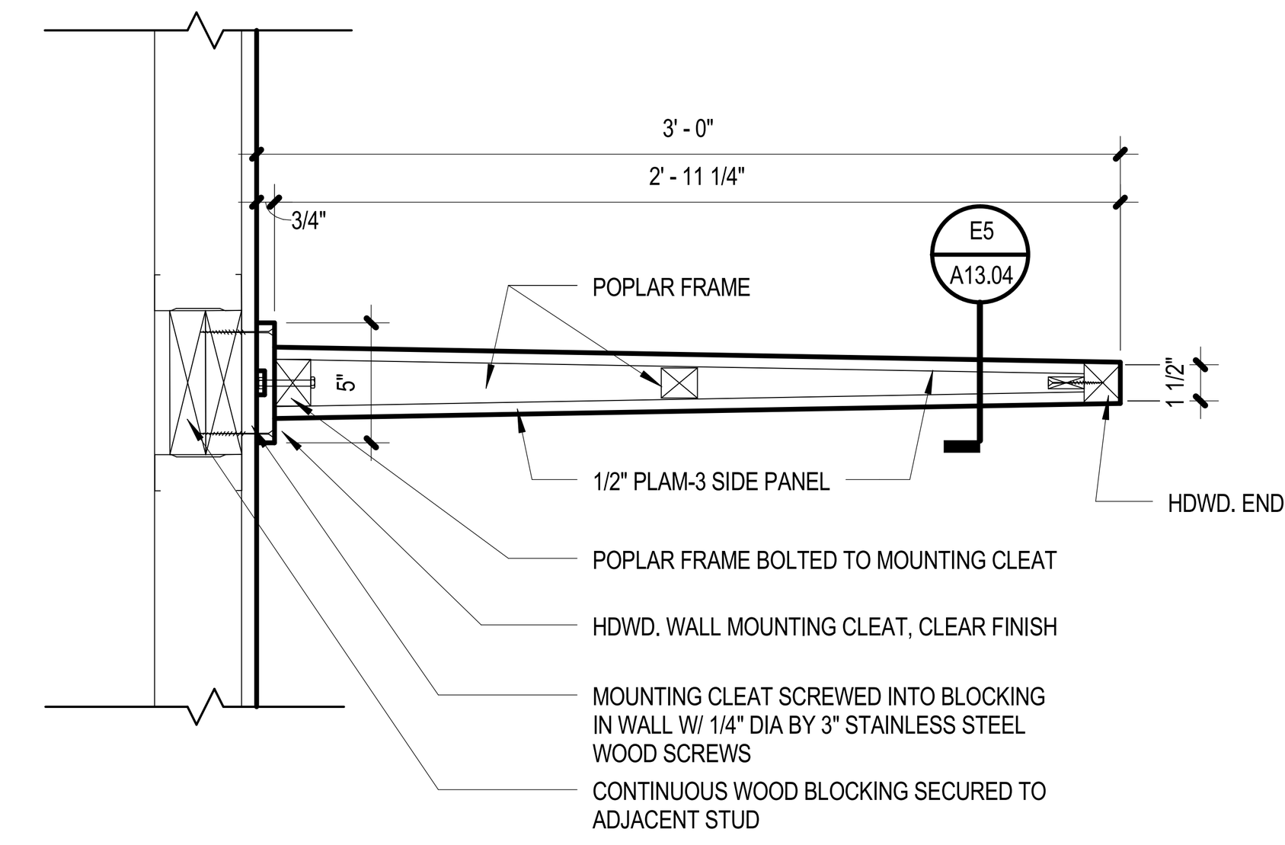
E1 CASEWORK SECTION
3/4" = 1'-0"



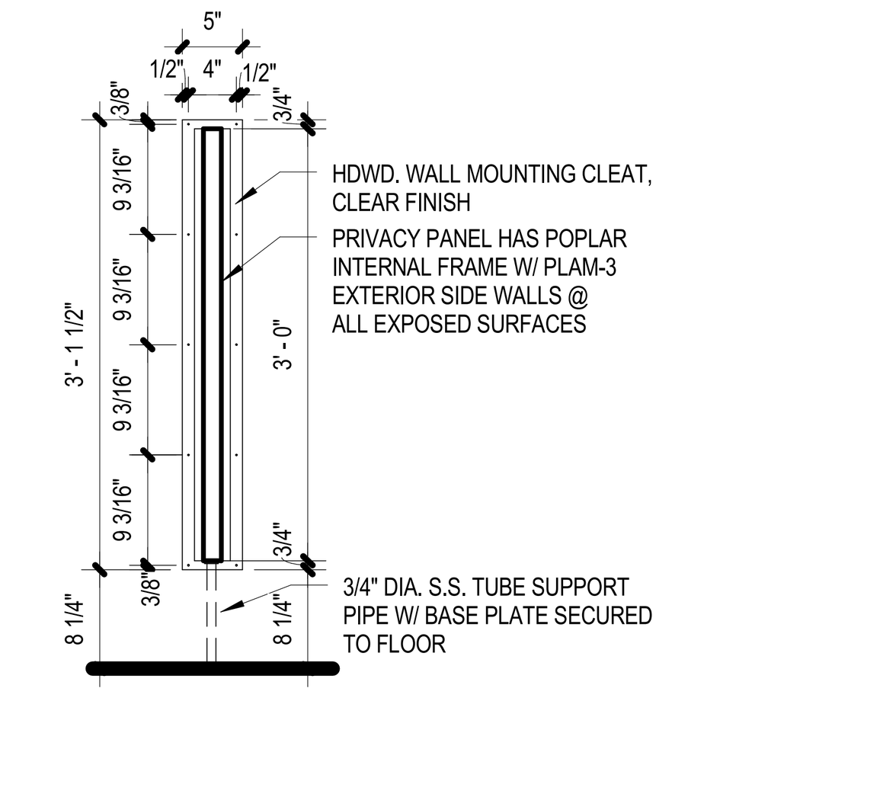
E2 CASEWORK SECTION
3/4" = 1'-0"



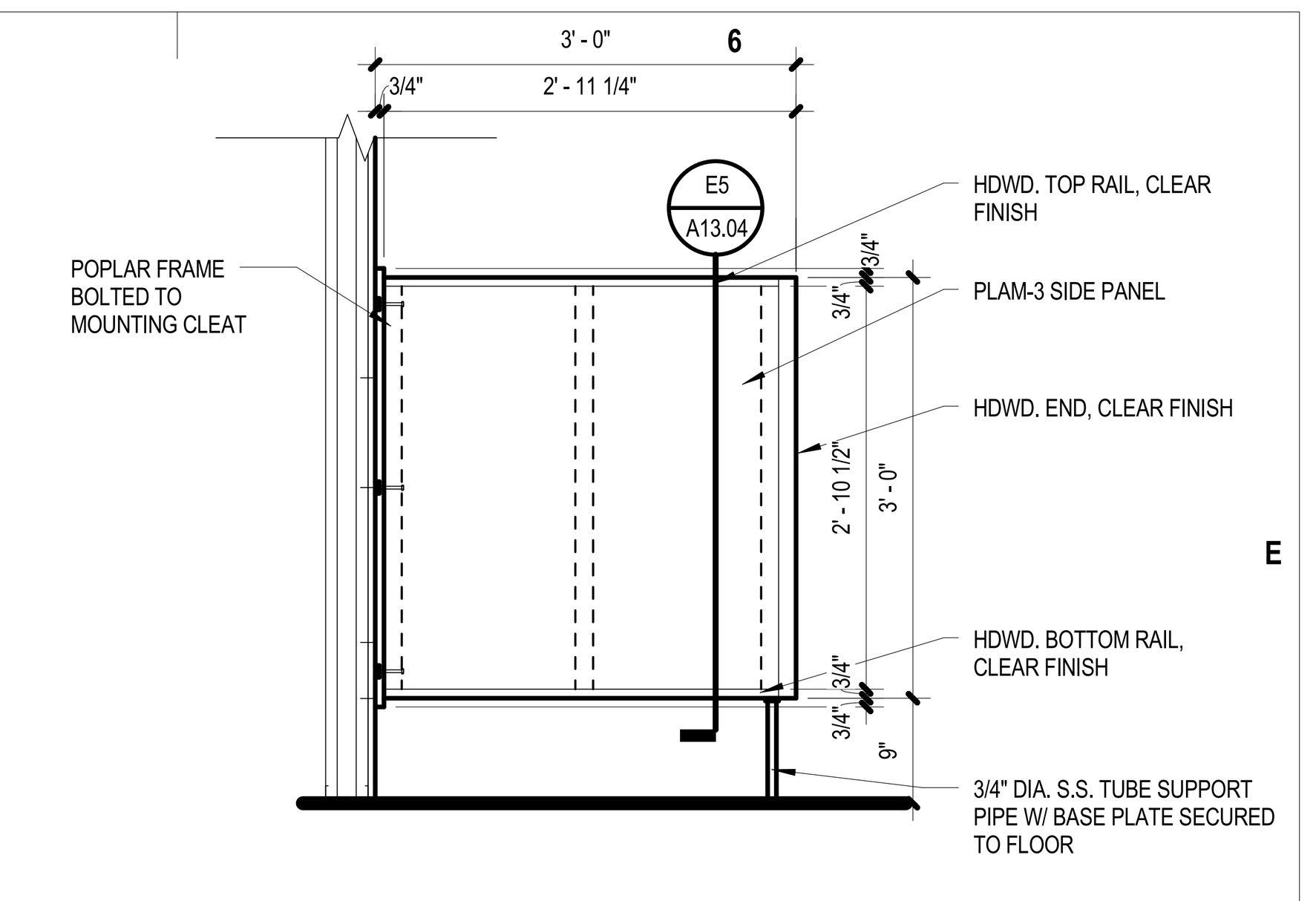
E3 CASEWORK SECTION
3/4" = 1'-0"



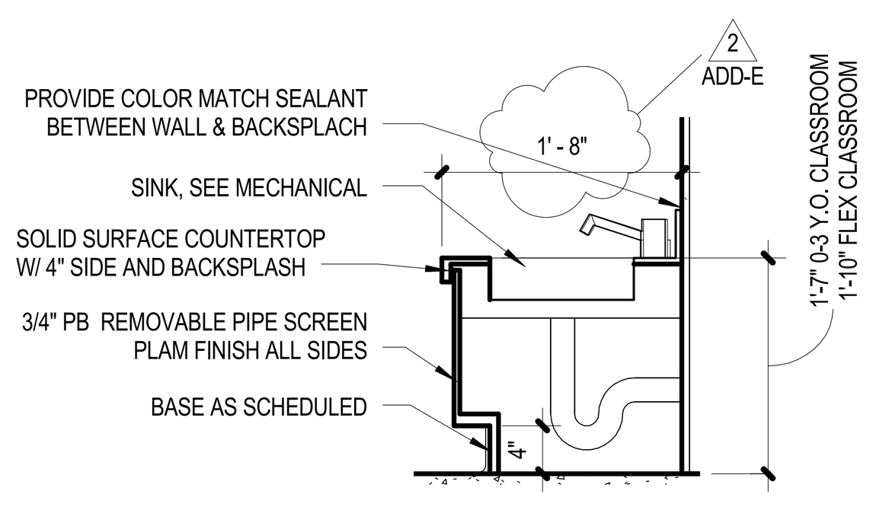
E4 PRIVACY PANEL PLAN
1 1/2" = 1'-0"



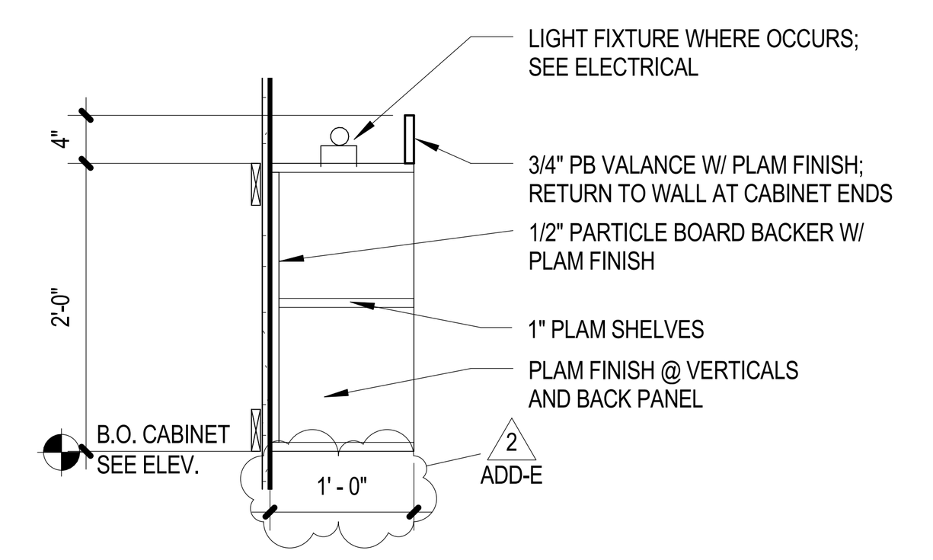
E5 PRIVACY PANEL SECTION
3/4" = 1'-0"



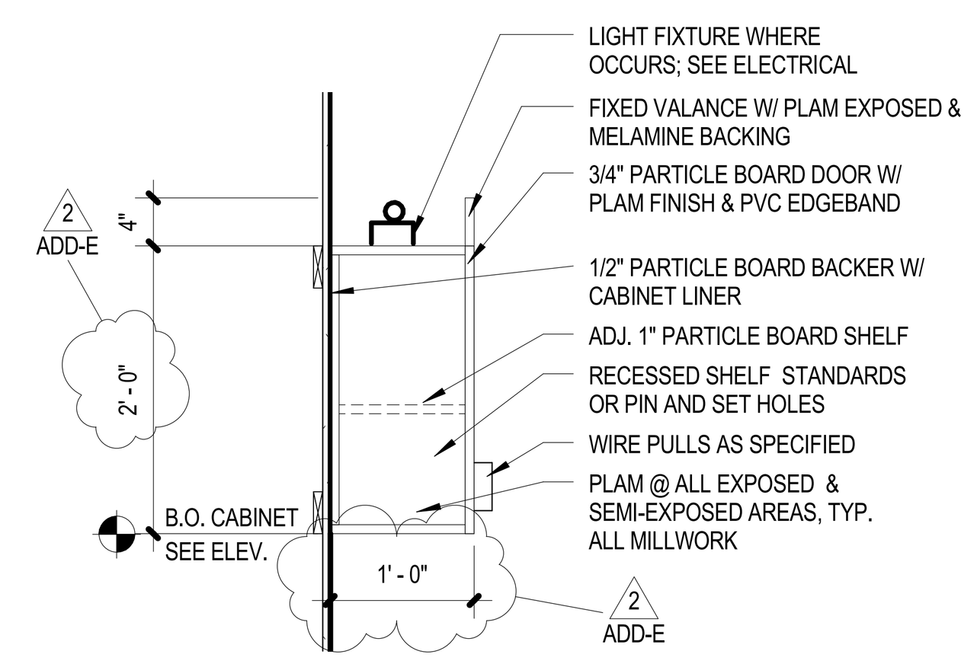
E6 PRIVACY PANEL ELEVATION
3/4" = 1'-0"



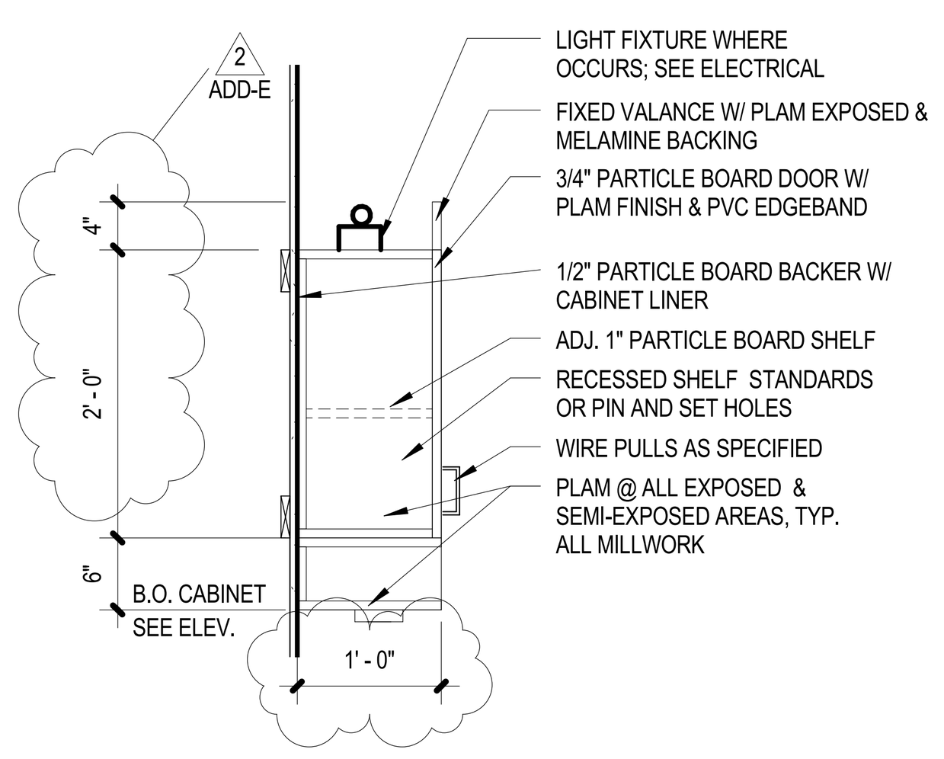
D1 CASEWORK SECTION
3/4" = 1'-0"



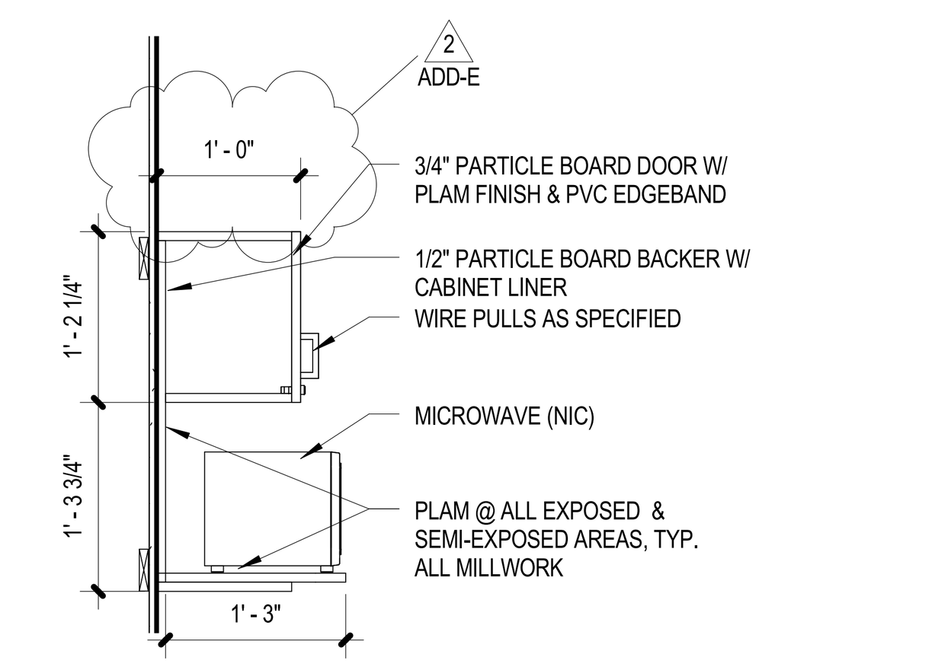
D2 CASEWORK SECTION
3/4" = 1'-0"



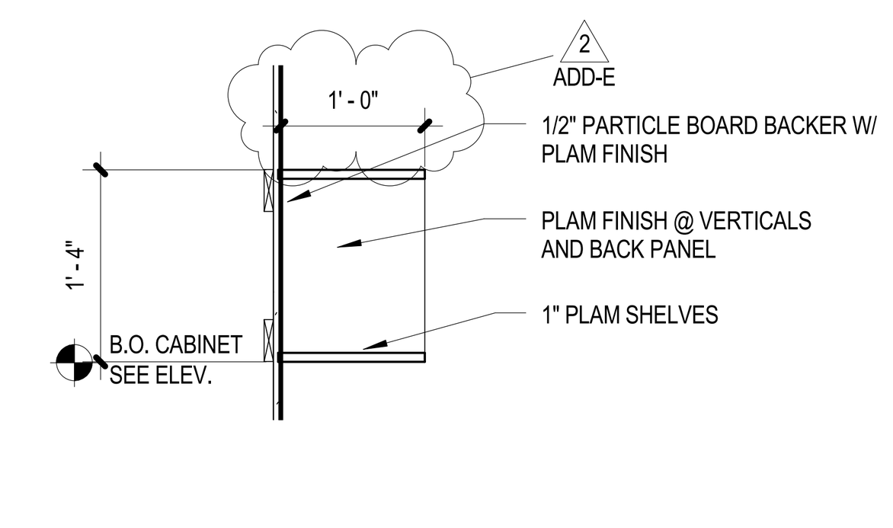
D3 CASEWORK SECTION
3/4" = 1'-0"



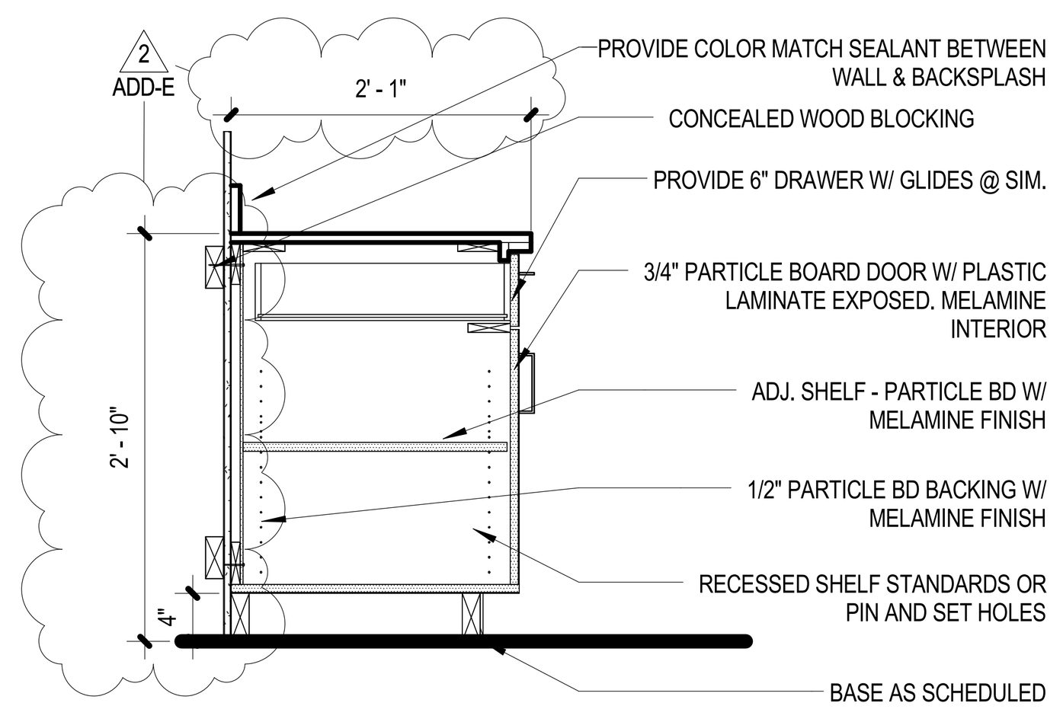
D4 CASEWORK SECTION
3/4" = 1'-0"



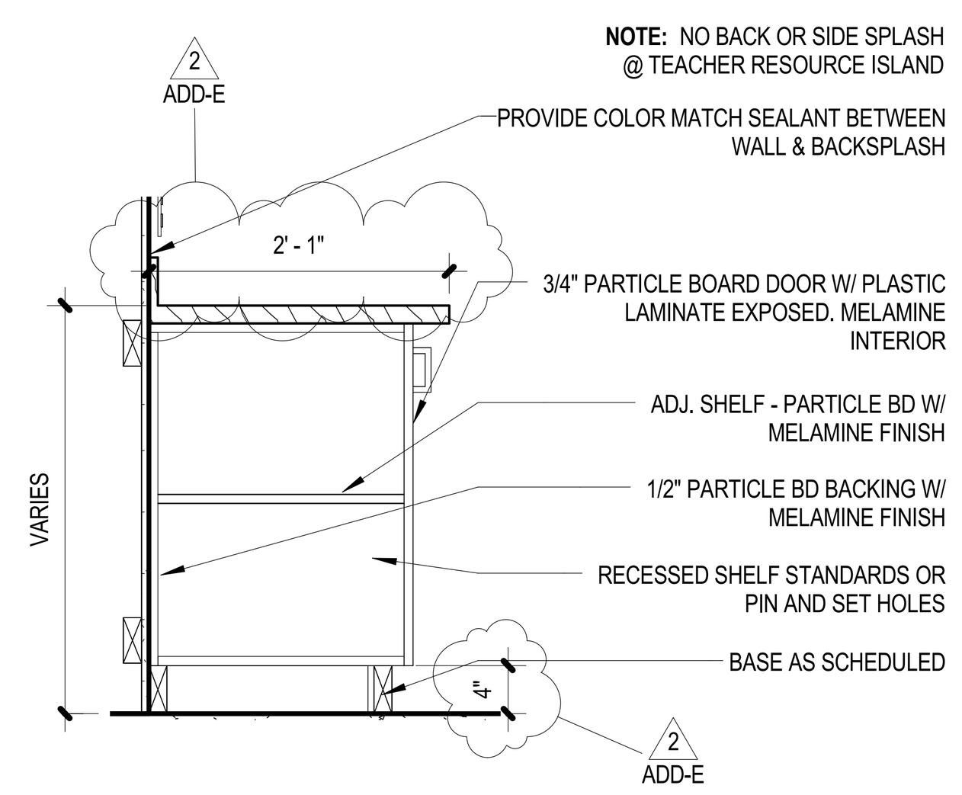
D5 CASEWORK SECTION
3/4" = 1'-0"



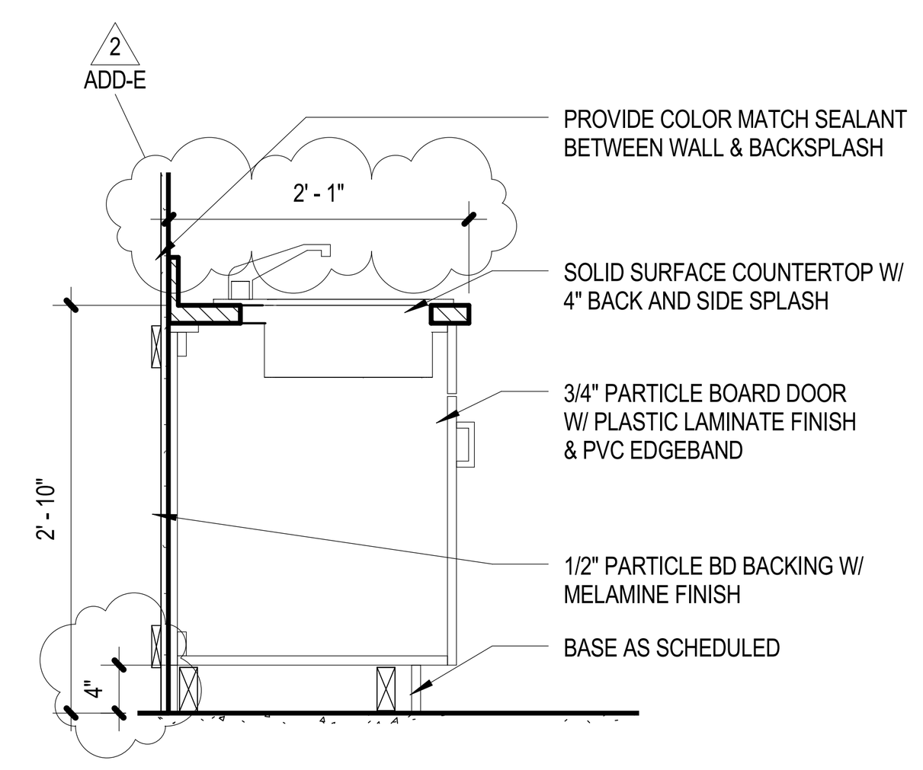
D6 CASEWORK SECTION
3/4" = 1'-0"



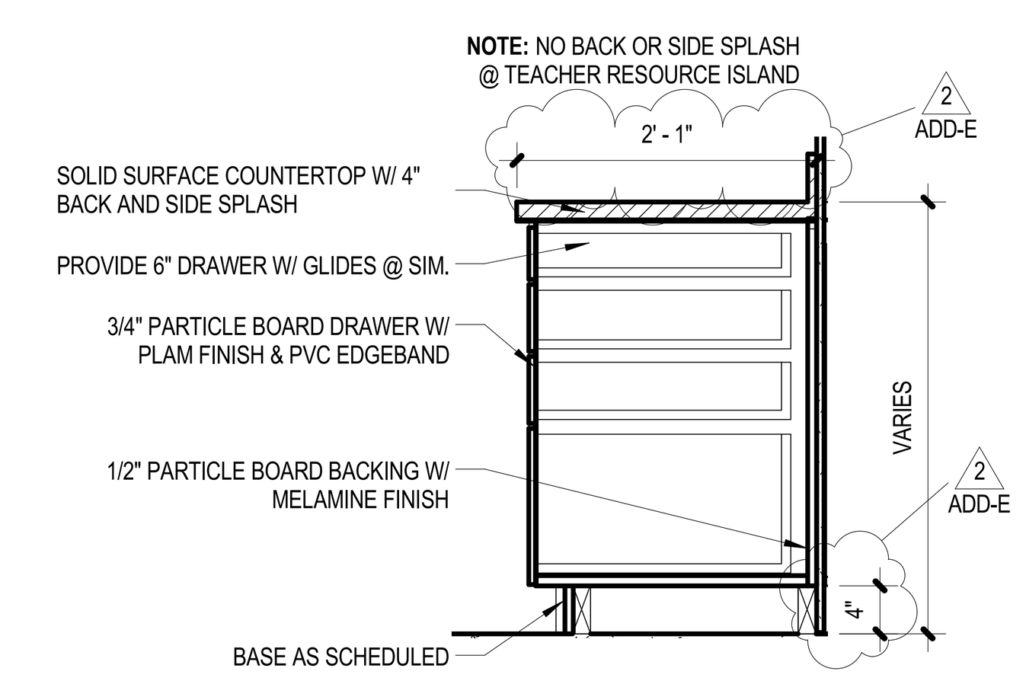
C2 BASE CABINET
3/4" = 1'-0"



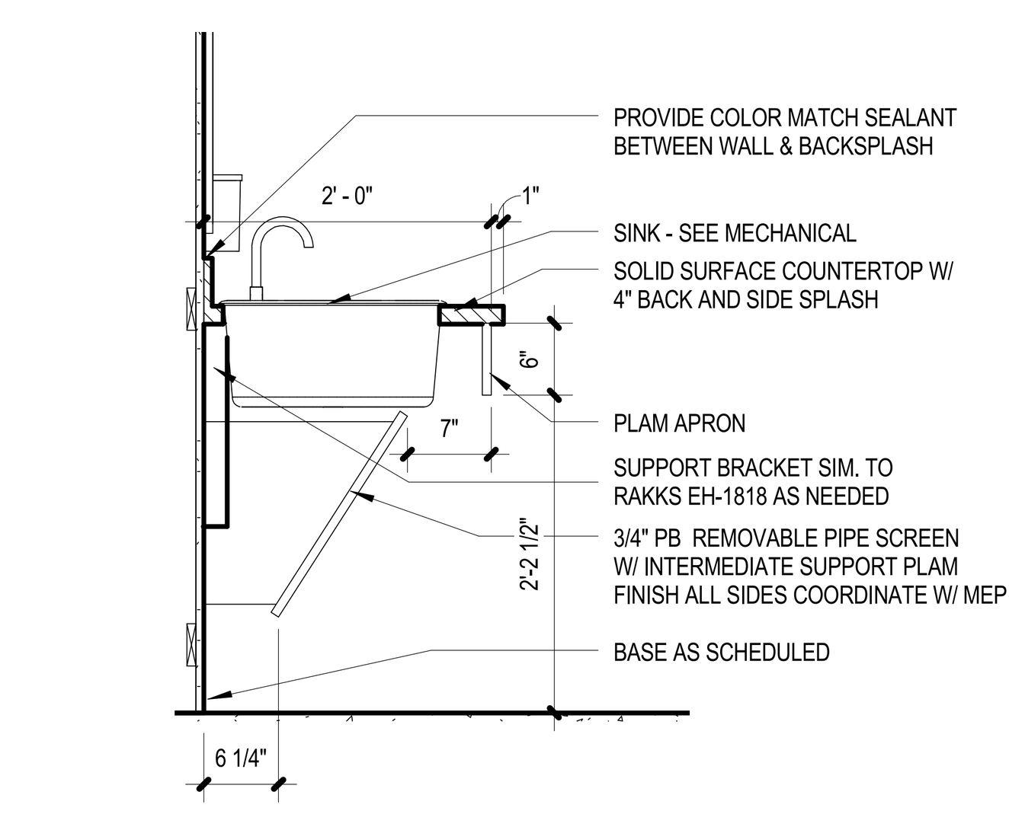
C3 CASEWORK SECTION
3/4" = 1'-0"



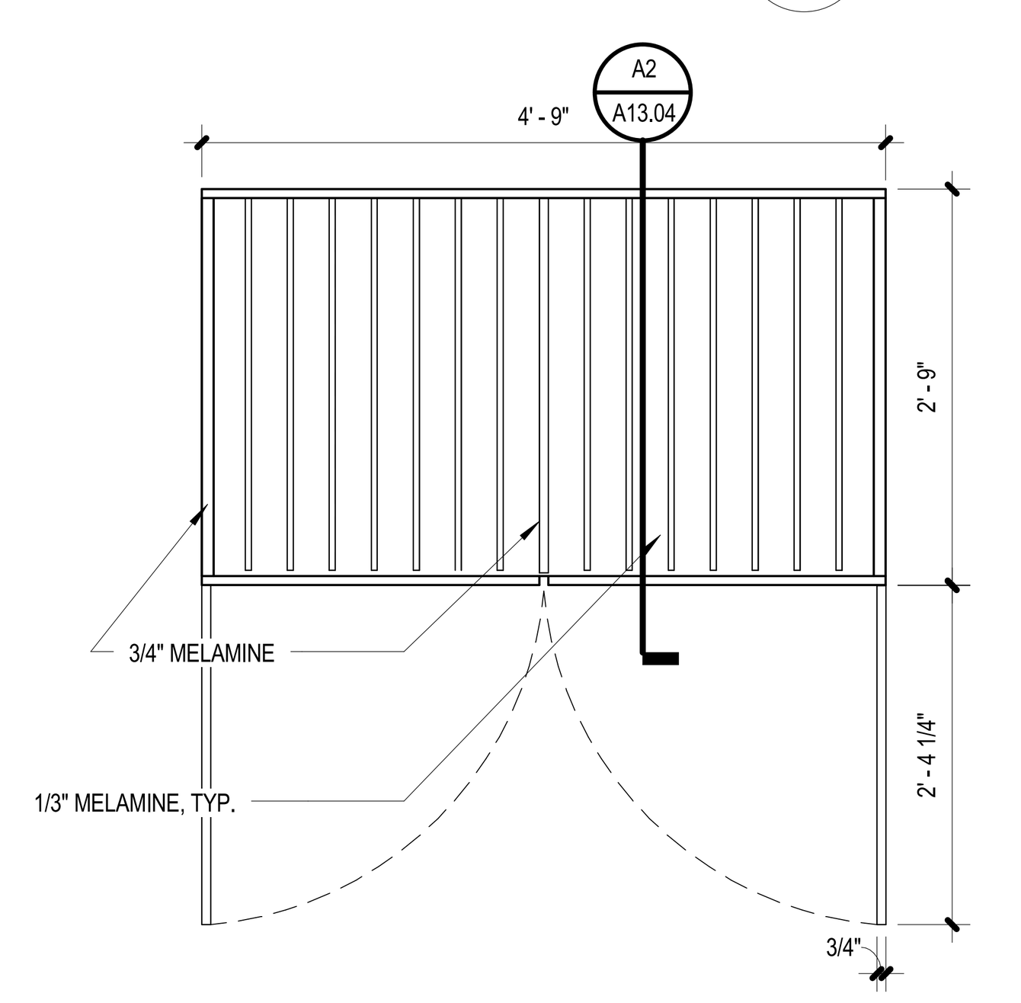
C4 CASEWORK SECTION
3/4" = 1'-0"



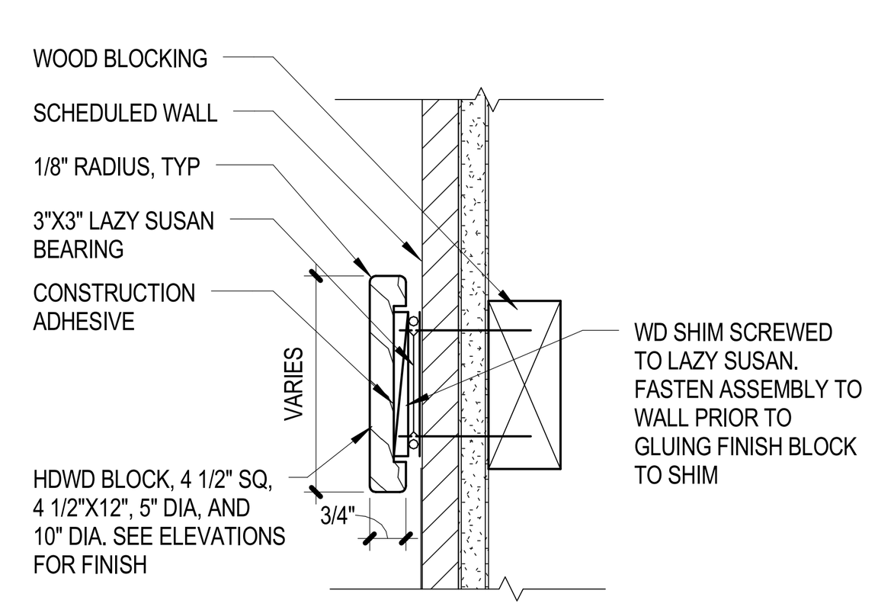
C5 CASEWORK SECTION
3/4" = 1'-0"



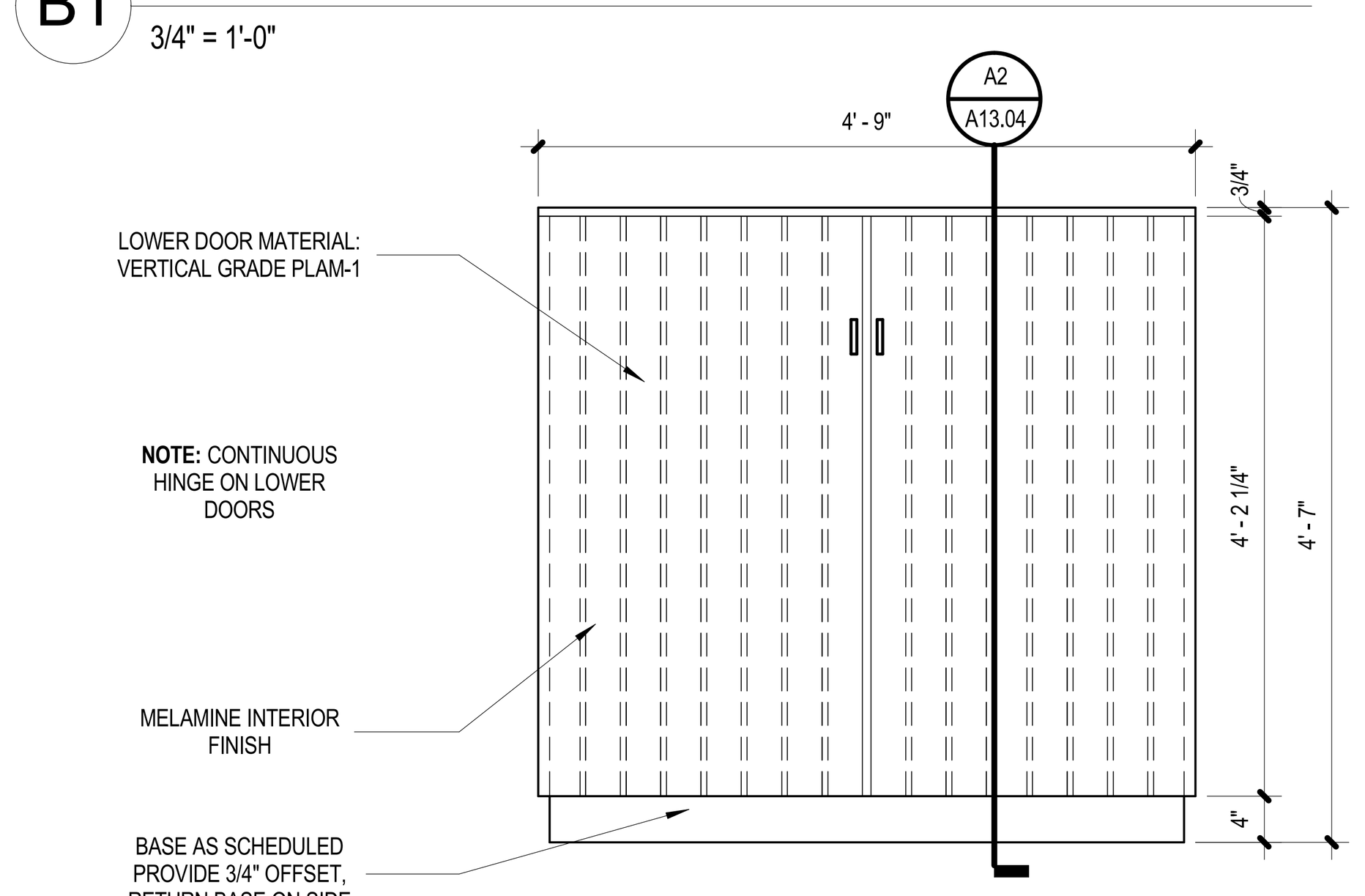
C6 CASEWORK SECTION
3/4" = 1'-0"



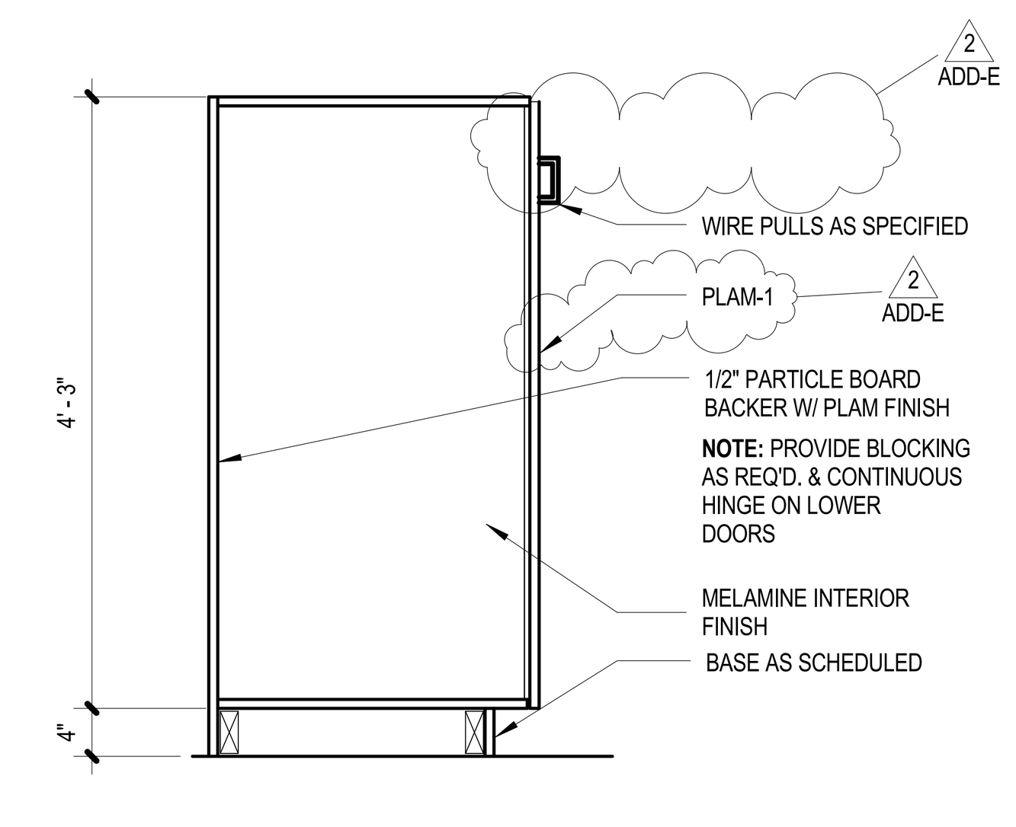
B1 PLAN - STORAGE
3/4" = 1'-0"



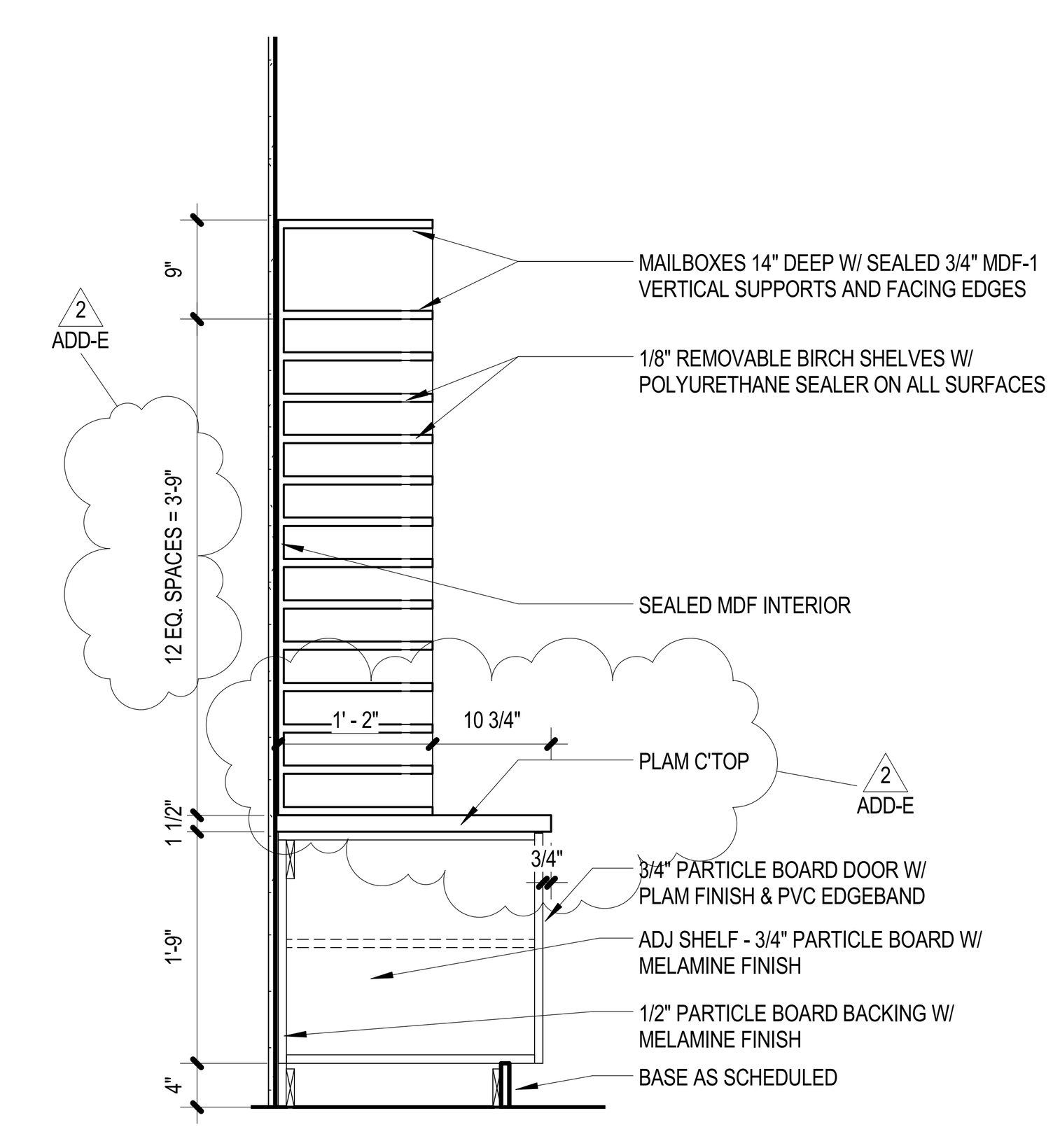
B2 CASEWORK SECTION
3" = 1'-0"



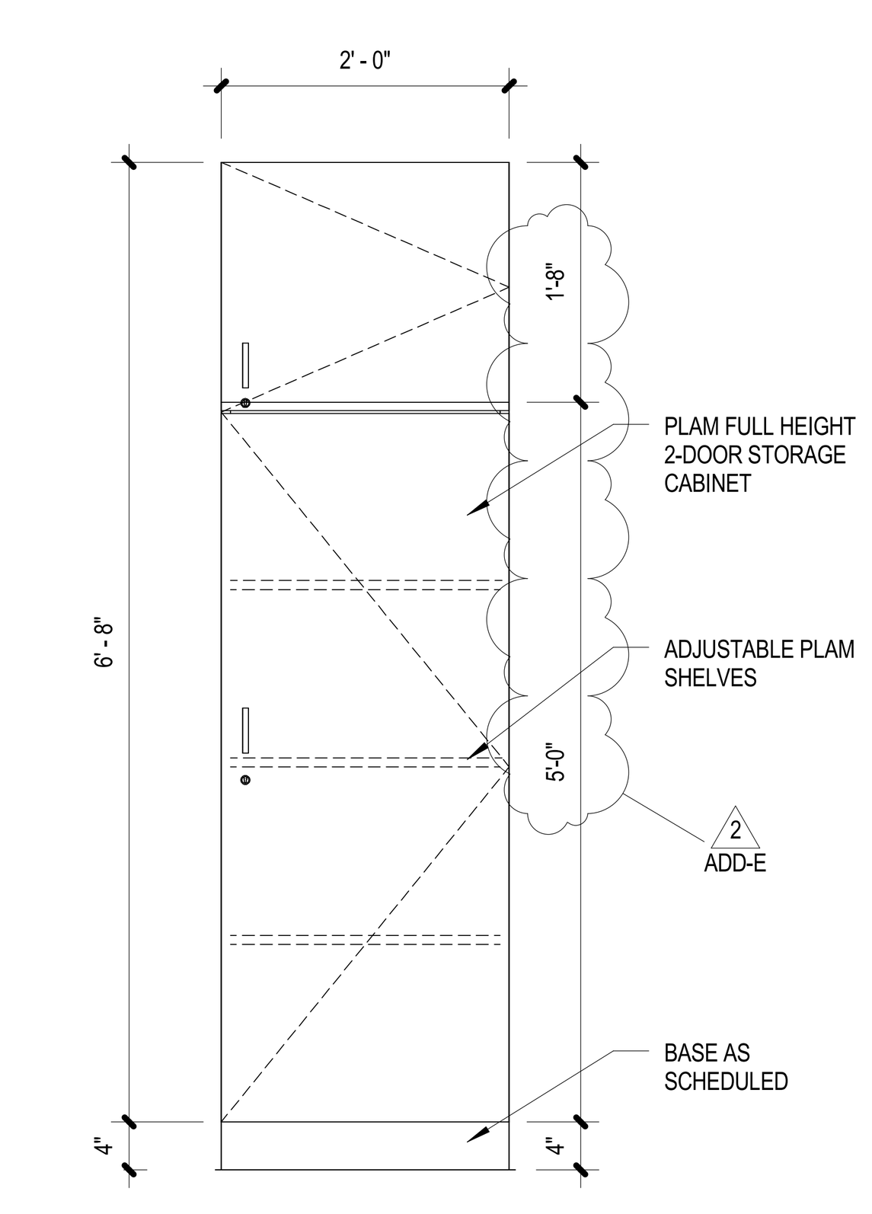
A1 ELEVATION - STORAGE
3/4" = 1'-0"



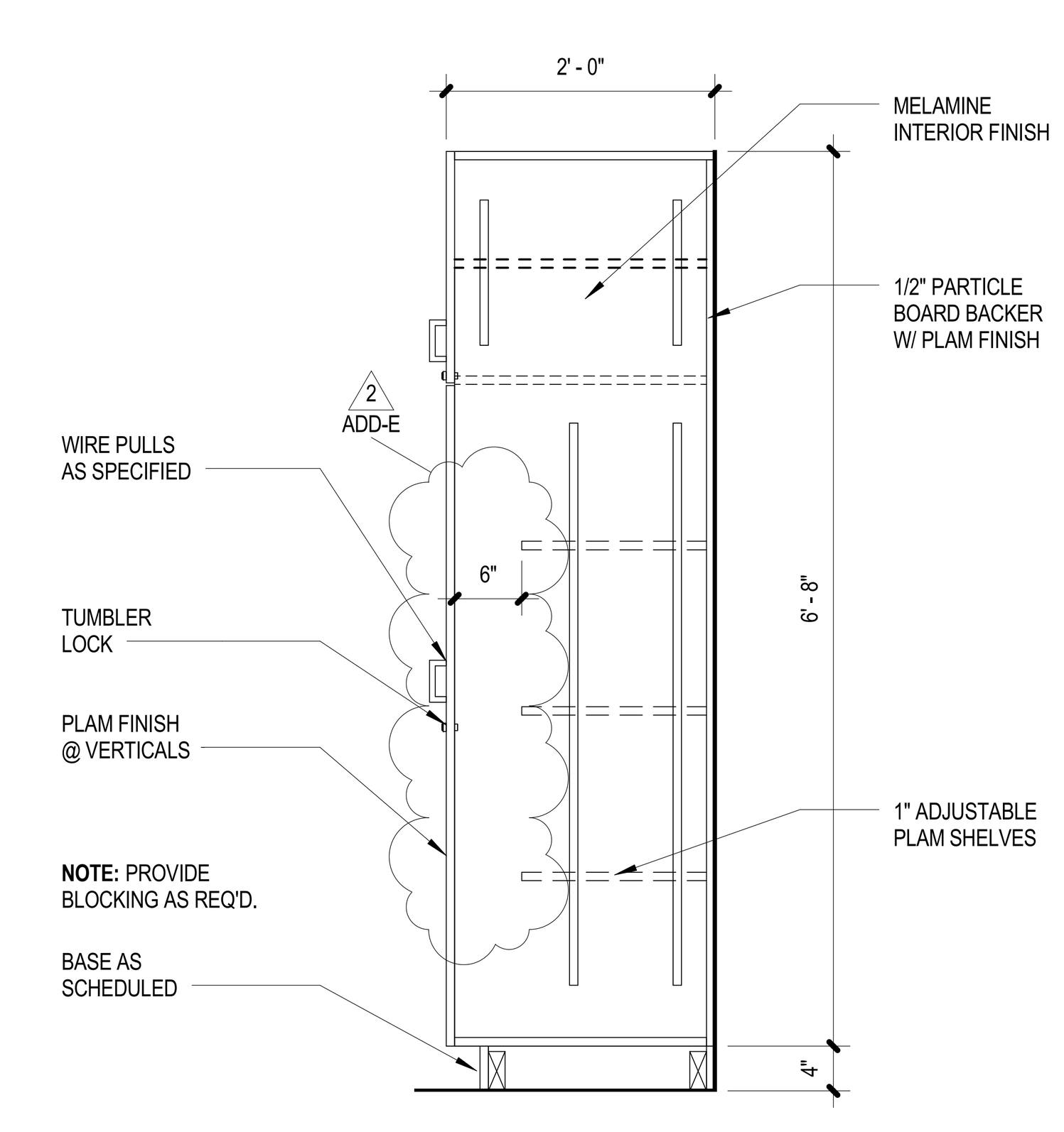
A2 SECTION - STORAGE
3/4" = 1'-0"



A4 CASEWORK SECTION
3/4" = 1'-0"



A5 STORAGE CABINET
3/4" = 1'-0"



A6 CABINET SECTION
3/4" = 1'-0"

CONSTRUCTION DOCUMENTS

RDG PLANNING • DESIGN

ARCHITECT
RDG Planning & Design

STRUCTURAL

MECH/PLUMB/ELEC/TELE

CIVIL

FOOD SERVICE EQUIPMENT

LANDSCAPE ARCHITECT

ARCHITECT
EDWARD M. BUGLEWICZ
A-3896
STATE OF NEBRASKA

SKINNER EARLY CHILDHOOD CENTER

4304 North 33rd Street
Omaha, NE 68111

KEY PLAN

REV	DATE	DESCRIPTION
2	11/21/14	ADD-E

ISSUED: NOV 10, 2014
PROJECT NO: 2014.128.00

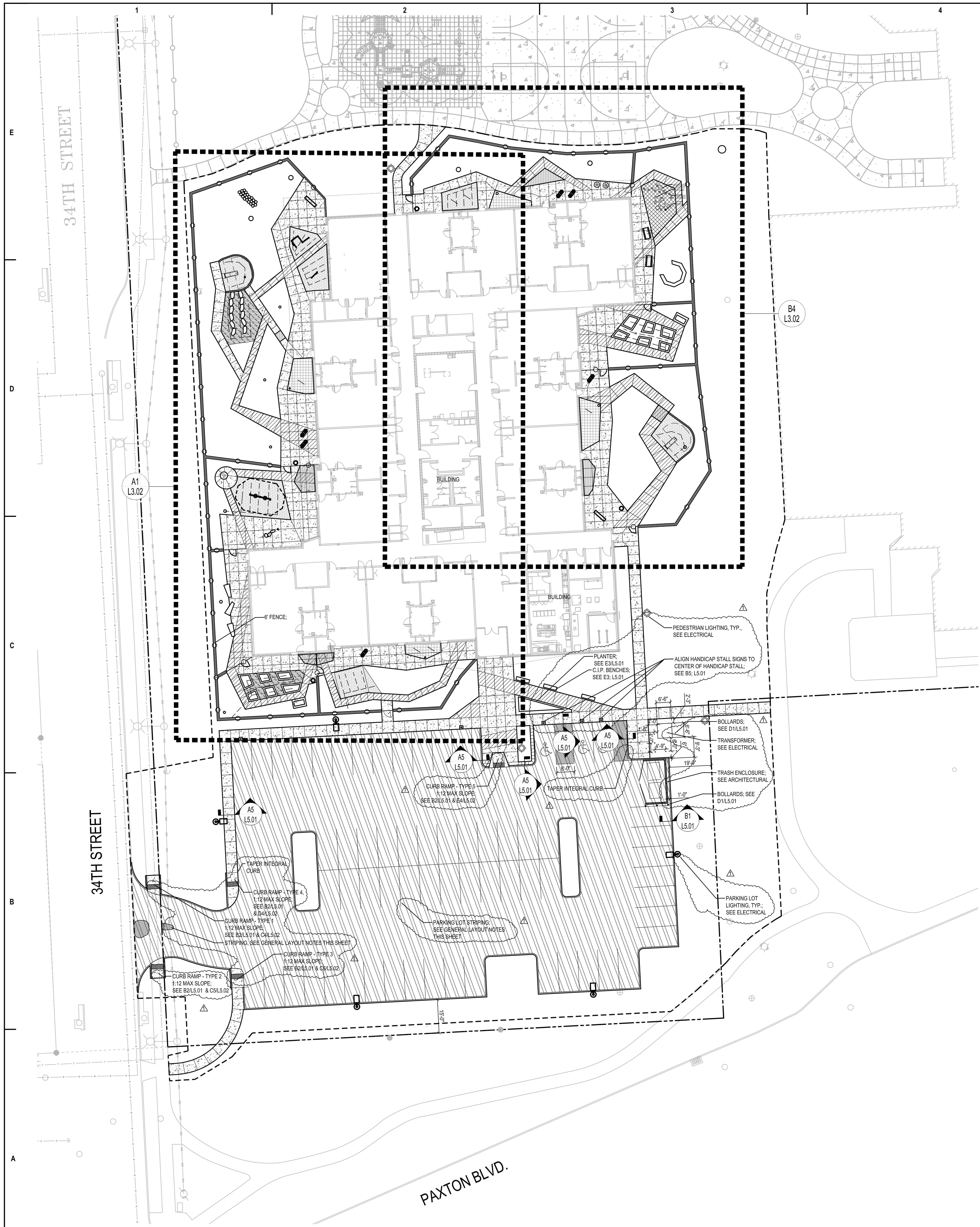
SKINNER EARLY CHILDHOOD CENTER

MILLWORK DETAILS

A13.04

GENERAL LAYOUT PLAN NOTES

1. THE BOUNDARY SURVEY USED FOR THE BASIS OF THIS DRAWING WAS PREPARED BY:
   EHRHART GRIFFIN & ASSOCIATES
   3552 FARNAM STREET
   OMAHA, NE 68131
   PHONE: (402) 551-0631
   FAX: (402) 551-6540
2. ONE WEEK PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND LANDSCAPE ARCHITECT OF THEIR INTENT TO START AND SCHEDULE.
3. ALL WORK SHALL COMPLY WITH ANY APPLICABLE CITY, COUNTY, STATE, AND FEDERAL CODES, ORDINANCES, REGULATIONS, AND RULES.
4. DIGITAL FILES ARE AVAILABLE FOR HORIZONTAL LAYOUT. THE CONTRACTOR SHALL SUBMIT THE CADD/ELECTRONIC FILE TRANSFER USE AGREEMENT FORM FOUND IN THE PROJECT MANUAL.
5. ALL DIMENSIONS ARE FROM BACK OF CURB TO BACK OF CURB, EDGE OF PAVEMENTS, PROPERTY LINES, OR FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.
6. IF DISCREPANCIES ARISE BETWEEN WRITTEN AND ELECTRONIC DIMENSIONS, THE WRITTEN DIMENSIONS SHALL PREVAIL.
7. RDG WILL PROVIDE UPDATED JOINTING PLAN FOR CONCRETE SIDEWALKS AFTER BIDS ARE ACCEPTED.
8. THE PAVING CONTRACTOR SHALL SUBMIT A PAVEMENT JOINTING PLAN FOR ALL CONCRETE AREAS NOT OTHERWISE DETAILED IN THESE SHEETS. THE JOINTING PLAN SHALL BE BASED ON THE RECOMMENDATIONS OF PORTLAND CEMENT ASSOCIATION, FOR REVIEW A MINIMUM OF FIFTEEN (15) DAYS PRIOR TO COMMENCEMENT OF PAVING OPERATIONS. NO COMPENSATION FOR REMOVAL AND REPLACEMENT OF INSTALLED PAVEMENT, DUE TO UNACCEPTABLE JOINT PLACEMENT, WILL BE ALLOWED RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
9. THE CONTRACTOR SHALL PROVIDE PARKING LOT STRIPING PLAN TO OWNER PRIOR TO APPLICATION. ALL PARKING LOT STRIPING SHOWN ON CONSTRUCTION DOCUMENTS ARE FOR REFERENCE ONLY.
10. THE CONTRACTOR SHALL FURNISH AND PLACE ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES DURING CONSTRUCTION IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AS AMENDED AND ACCEPTED BY THE LOCAL CONTROLLING AUTHORITY. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO PUBLIC WORKS/ENGINEERING PRIOR TO COMMENCING ANY WORK WITHIN THE CITY R.O.W.
11. IF REQUIRED BY THE MECHANICAL OR ELECTRICAL PLAN, THE PAVING CONTRACTOR SHALL PROVIDE AND PLACE ALL SLEEVES OR CONDUIT UNDER THE PAVING AND PROVIDE LOCATES FOR FUTURE USE.
12. ALL WALKWAY PAVEMENTS TO UTILIZE A SAWCUT CONTROL JOINT - SEE A2/L5.01, UNLESS OTHERWISE NOTED. IF COLORED CONCRETE ALTERNATE IS ACCEPTED, ALL JOINTS WITHIN CONCRETE TYPES 1,2, & 3 WILL BE TOOLED JOINTS - SEE A3/L5.01.
13. ALL PARKING LOT STRIPING TO BE 4" WIDE WHITE PAINT
14. SEAL ALL JOINTS (ISOLATION, CONTRACTION AND CONSTRUCTION) IN ALL PARKING LOTS AND DRIVEWAYS. SEAL ONLY ISOLATION JOINTS IN WALKWAYS.
15. ALL ASPHALT PAVEMENT EDGES ADJACENT TO CONCRETE OR GRAVEL PAVEMENT WILL BE SAWCUT TO PROVIDE A CLEAN, CONSISTENT EDGE.
16. PROVIDE 3 STANDARD SLAP DRUMS AND 2 JUNIOR SLAP DRUMS; SEE SPECS.
17. WHERE DRAIN INLETS ARE LOCATED UNDER TILE SURFACING, SLOPE ALL CONCRETE TO DRAIN INLET.



1 SITE LAYOUT PLAN
1" = 20'

LEGEND:

— — —	CONSTRUCTION LIMIT LINE
— - —	PROPERTY LINE
	FENCING; SEE A6/L5.01
	7" PCC PAVEMENT; SEE B4/L5.01
	5" PCC SIDEWALK TYPE 1; SEE B3/L5.01
	5" COLOR PCC SIDEWALK TYPE 2 - ALTERNATE #13, SEE SPECS; SEE B3/L5.01 FOR DETAIL
	5" COLOR PCC SIDEWALK TYPE 3 - ALTERNATE #13, SEE SPECS; SEE B3/L5.01 FOR DETAIL
	RUBBERIZED SURFACING; SEE E1/L5.01
	SYNTHETIC TURF; SEE C4/L5.01
	FIBAR MULCHING; SEE SPECS FOR PRODUCT AND DRAINAGE REQUIREMENTS
	COMPOSITE DECKING; SEE L5 SHEETS FOR DETAILS
	LIGHTING; SEE ELECTRICAL
	FLAGSTONE PAVER; SEE C3/L5.01
	DRAIN INLET; SEE CIVIL

SCALE: 1" = 20'
0 20' 40' 60'

NORTH

CONSTRUCTION DOCUMENTS

RDG... PLANNING I DESIGN

ARCHITECT RDG Planning & Design
LANDSCAPE RDG Planning & Design
STRUCTURAL Performance Engineering
FOOD SERVICE EQUIPMENT Sturm Consulting, Inc.
CIVIL Ehrhart Griffin & Associates
M/E/P/TELECOM Alvine Engineering

DOLORES D. SILKWORTH LA 179 11/10/14 STATE OF NEBRASKA

SKINNER EARLY CHILDHOOD CENTER
4304 N. 33RD
OMAHA, NE 68111

KEY PLAN

REV	DATE	DESCRIPTION
	11-21-2014	Addendum E

ISSUED: 11.10.2014
PROJECT NO: 2014.128.00

SKINNER EARLY CHILDHOOD CENTER

SITE LAYOUT PLAN

L3.01