CG Architects

BIDDERS BULLETIN

PROJECT: Perkins County School Addition
Grant, Nebraska

BULLETIN NUMBER

BB-1

ISSUED BY:

Stephen Granger

PROJECT #: 12-0915

DATE ISSUED: March 19, 2014

This bulletin is issued by the Architect to all known bidders before receipt of proposals, for the purpose of explaining, interpreting, or modifying the original plans and specifications. When enumerated by the bidder upon the proposal sheet, the information or instructions given hereon will be equally binding upon all parties as if included in the original plans and specifications.
BIDDER MUST ENTER THE NUMBER OF THIS BULLETIN ON HIS PROPOSAL SHEET

THE FOLLOWING ITEMS ARE APPLICABLE TO THE SPECIFICATIONS

General Comments:

Plans and specifications can be obtained at A&D technical supply in Lincoln, NE. (402) 474-5454

Additional Vender Approval

Action Floor Systems LLC 4781 N. U.S. Highway 51 • Mercer, WI 54547-9708 U.S.A.
800-746-3512 • 715-476-3512 • FAX 715-476-3585
E-mail: **info@actionfloors.com**
Product approved: Channel Flex Ultra F.

BB-1, ITEM #1: Invitation To Bid

Bid Date is to be April 3rd, not April 4th as listed on the "Information to Bid" form.

BB-1, ITEM #2: 07620 Metal Flashing & Trim

Provide as an exterior wall panel located at the front entry of the school, a Firestone UNA-Clad 500 12" wide panel. Flush Seam System, roll formed aluminum 0.040 inch thickness, Kynar 500 finish. Color selected from standard color options.

BB-1, ITEM #3: 11400 Food Service Equipment

Refer to the attached documents for additional information in regard to Walk-in-Cooler equipment.

END OF BB-1, See Attached

SECTION 13120 - PRE-ENGINEERED BUILDINGS

PART 1 - GENERAL

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specifications sections apply to work specified in this section.

SUMMARY

Extent of pre-engineered buildings work is shown of drawings.

Building Type: The pre-engineered building shown is a single story, single span, rigid frame type metal building of the nominal length, width, eave height and roof pitch indicated. Exterior walls are covered with factory finished metal wall panels. Endwalls are not expandable.

Manufacturer's standard components may be used, providing components, accessories, and completed structure conform to architectural design appearance shown and to specified requirements.

Concrete floor and foundations and installation of anchor bolts are specified in a Division-3 section.

Sealants and caulking are specified in a Division-7 section.

SUBMITTALS

Product Data: Submit manufacturer's product information, specifications and installation instructions for building components and accessories.

Shop Drawings: Submit complete erection drawings showing anchor bolts settings, sidewall, endwall and roof framing, transverse cross sections, covering and trim details, and accessory installation details to clearly indicate proper assembly of building components.

Samples: Submit samples of the following items. Architect's review will be for color and texture only. Compliance with other requirements is the responsibility of the Contractor.

12" long by actual width of roofing, siding and interior liner panels, with required finishes.

Fasteners for application of roofing and siding panels.

Sealants and closures.

Certification: Submit written Certification prepared and signed by a Professional Engineer, registered to practice in the State where building is to be erected, verifying that building design meets indicated loading requirements and codes of authorities having jurisdiction.

QUALITY ASSURANCE

Design Criteria:

Structural Framing: Design primary and secondary structural members and exterior covering materials for applicable loads and combinations of loads in accordance with the Metal Building Manufacturers Association's (MBMA) "Design Practices Manual."

Structural Steel: For design of structural steel members, comply with requirements of the American Institute of Steel Construction's (AISC) "Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings" for design requirements and allowable stresses.

Light Gage Steel: For design of light gage steel members, comply with requirements of the American Iron and Steel Institute's (AISI) "Specification for the Design of Cold Formed Steel Structural Members" and "Design of Light Gage Steel Diaphragms" for design requirements and allowable stresses.

Welded Connections: Comply with requirements of the American Welding Society's (AWS) "Standard Code for Arc and Gas Welding in Building Construction" for welding procedures.

Design Loads: Basic design loads, as well as auxiliary and collateral loads, are indicated on the drawings.

Basic design loads include live load, wind load, and seismic load, in addition to the dead load. Use values prescribed in the current addition of the International Building Code, as amended adopted by the local building code, for wind load, live (snow and rain) load, and seismic load

Auxiliary loads include dynamic live loads such as those generated by cranes and materials handling equipment.

Collateral loads include additional dead loads over and above the weight of the building structural system such as mechanical systems.

Design each member to withstand stresses resulting from combinations of loads that produce the maximum allowable stresses in that member as prescribed in MBMA's "Design Practices Manual".

Building Accessories Criteria:

Hollow Metal Doors and Frames: See Section 08100 – Hollow Metal Work.

Aluminum Windows: See Section 08520 – Aluminum Windows.

Aluminum Entrances/Storefronts: See Section 08410 – Aluminum Entrances/Storefronts.

Manufacturer's Qualifications: Provide pre-engineered metal buildings as produced by a manufacturer with not less than 5 years successful experience in the fabrication of pre-engineered metal buildings of the type and quality required.

Erector's Qualifications: Pre-engineered building shall be erected by a firm that has not less than 5 years successful experience in the erection of pre-engineered buildings similar to those required for this project, and that has been licensed by the manufacturer of the building system.

DELIVERY, STORAGE AND HANDLING

Deliver and store prefabricated components, sheets, panels, and other manufactured items so they will not be damaged or deformed.

Stack materials on platforms or pallets, covered with tarpaulins or other suitable weathertight ventilated covering. Store metal sheets or panels so that water accumulations will drain freely. Do not store sheets or panels in contact with other materials which might cause staining.

MAINTENANCE

Maintenance Stock: Furnish at least 5% excess over required amount of nuts, bolts, screws, washers, and other required fasteners for each building. Pack in cartons and store on site where directed.

PART 2 - PRODUCTS

MANUFACTURERS

Available Manufacturers: Subject to compliance with specified requirements, manufacturers offering pre-engineered building systems which may be incorporated in the work include, but are not limited to, the following:

Manufacturer: Subject to compliance with specified requirements, provide the pre-engineered building systems provided by one of the following:

American Buildings Co.
American Steel Building Co., Inc.
Armco Atlantic, Inc.
Behlen Manufacturing Co.
Butler Manufacturing Co.
Ceco Buildings Division.
Chief Industries, Inc.
Farmland Industries, Inc.
Garco Building Systems.
Kirby Building Systems, Inc.
Pascoe Building Systems.
Sonoco Buildings.
Star Manufacturing Co.
Varco Pruden
Wedgecor
Whirlwind Steel Buildings, Inc.

MATERIALS

Metals:

Hot-Rolled Structural Shapes: Comply with requirements of ASTM A36 or A529.

Tubing or Pipe: Comply with requirements of ASTM A500, Grade B, ASTM A501, or A53.

Members Fabricated from Plate or Bar Stock: Provide 42,000 psi minimum yield strength. Comply with requirements of ASTM A529, A570, or A572.

Members Fabricated by Cold Forming: Comply with requirements of ASTM A607, Grade 50.

Galvanized Steel Sheet: Comply with requirements of ASTM A446 with G90 coating. "Class" to suit building manufacturer's standards.

Bolts for Structural Framing: Comply with requirements of ASTM A307 or A325 as necessary for design loads and connection details.

Thermal Insulation: Provide glass fiber blanket insulation, of not less than 0.5 lb. per cu. ft. density, thickness as indicated, with UL flamespread classification of 25 or less, and 2" wide continuous vapor tight edge tabs.

Paint and Coating Materials: Unless otherwise indicated, paint and coating materials shall comply with performance requirements of the federal specifications indicated. Unless specifically indicated otherwise, compliance with compositional requirements of the federal specifications indicated is not required.

Primers:

Shop Primer for Ferrous Metal: Provide fast-curing, lead-free, "universal" primer, as selected by the manufacturer for resistance to normal atmospheric corrosion, compatibility with finish paint systems indicated and capability to provide a sound foundation for field-applied topcoats despite prolonged exposure. Comply with performance requirements of FS TT-P-645.

Finish Coats:

Shop-Primed Metal Surfaces: Provide flat, lusterless alkyd enamel finish coat as recommended by the manufacturer for use over primed ferrous metal surfaces. Comply with performance requirements of FS TT-E-527.

STRUCTURAL FRAMING

Rigid Frames shall be fabricated from hot-rolled structural steel. Provide built-up "I-beam" shape or open web type rigid frames consisting of either tapered or parallel flange beams and tapered columns. Provide frames factory welded and shop painted. Furnish frames complete with attachment plates, bearing plates, and splice members. Factory drill frames for bolted field assembly.

Provide length of span and spacing of frames indicated. Slight variations in length of span and frame spacing may be acceptable if necessary to meet manufacturer's standard.

Provide rigid frames at endwalls where indicated.

End Wall Columns: Provide factory welded, shop painted endwall columns of not less than 14-ga. built up "I" shape or cold-formed sections.

Wind Bracing: Provide adjustable wind bracing using not less than 1/2" diameter threaded steel rods; comply with requirements of ASTM A36 or A572, Grade D. Locate interior end bracing only where indicated.

Secondary Framing:

Provide not less than 16-ga. shop painted rolled formed sections for the following secondary framing members:

Purlins.
Eave struts.
Endwall beams.
Flange bracing.
Sag bracing.

Provide not less than 14-ga. cold-formed galvanized steel sections for the following secondary framing members:

Base Channels.
Sill angles.
Endwall structural members (except columns and beams).
Purlin spacers.

Bolts: Provide shop painted bolts, except when structural framing components are in direct contact with roofing and siding panels. Provide zinc-plated or cadmium-plated bolts when structural framing components are in direct contact with roofing and siding panels.

Shop Painting: Clean surfaces to be primed of loose mill scale, rust, dirt, oil, grease, and other matter precluding paint bond. Follow procedures of SSPC-SP3 for power tool clean, SSPC-SP7 for brush-off blast cleaning, and SSPC-SP1 for solvent cleaning.

Prime structural steel primary and secondary framing members with the manufacturer's standard rust-inhibitive primer.

Prime galvanized members, after phosphoric acid pretreatment with manufacturer's standard zinc dust-zinc oxide primer.

ROOFING AND SIDING PANELS

General: Provide roofing and siding sheets formed to the general profile or configuration indicated.

Provide siding from manufacturer’s standard profiles.

Provide interior liner panel from manufacturer’s standard liner panels.

Reverse panel and finish the exposed side.

Zinc-Coated Steel Sheets: Provide structural quality hot-dip galvanized steel sheets, complying with requirements of ASTM A446, Grade C, with G90 coating complying with ASTM A525.

Aluminum Coated Steel Sheets: Provide drawing quality aluminum coated steel sheets, complying with requirements of ASTM A463, with T1-40 coating.

Steel Sheets: Provide either structural quality hot-dip galvanized steel sheets complying with requirements of ASTM A446, Grade C, with G90 coating or drawing quality aluminum coated steel sheets, complying with requirements of ASTM A463, with T1-40 coating.

Metal thickness not less than 26 ga. (0.0179").

Standing Seam Roof Panels: Provide manufacturer's standard factory-formed standing seam roof panel system designed for mechanical attachment of panels to roof purlins using a concealed clip. Form panels of 24-ga. galvanized steel sheets complying with requirements of ASTM A 446, Grade C, with G90 coating.

Clips: Provide not less 16-ga. panel clips.

Cleats: Provide factory caulked, mechanically seamed cleats formed from 24 ga. galvanized steel complying with ASTM A 446, Grade C with G90 coating.

Fasteners: Provide self-tapping screws, bolts, nuts, self-locking rivets, self-locking bolts, end-welded studs, and other suitable fasteners as standard with the manufacturer, designed to withstand design loads.

Provide metal-backed neoprene washers under heads of fasteners bearing on weather side of panels.

Use aluminum or stainless steel fasteners for exterior application and galvanized or cadmium plated fasteners for interior applications.

Locate and space fastenings in true vertical and horizontal alignment. Use proper type fastening tools to obtain controlled uniform compression for positive seal without rupture of neoprene washer.
Provide fasteners with heads matching color of roofing or siding sheets by means of plastic caps or factory-applied coating.

Accessories: Provide the following sheet metal accessories factory formed of the same material and finish as the roofing and siding.

Flashings.
Closers.
Fillers.
Metal expansion joints.
Ridge covers.
Fascias.

Flexible Closure Strips: Provide closed-cell, expanded cellular rubber, self-extinguishing flexible closure strips. Cut or premold closure strips to match corrugation configuration of roofing and siding sheets. Provide closure strips where indicated or necessary to ensure weathertight construction.

Sealing Tape: Provide pressure sensitive 100 percent solids grey polyisobutylene compound sealing tape with release paper backing. Provide permanently elastic, non-sag, non-toxic, non-staining tape not less than 1/2" wide and 1/8" thick.

Baked Enamel Finish: Provide one-part elastomeric polyurethane, polysulfide or silicone rubber sealant as recommended by the building manufacturer.

Clean galvanized steel with an alkaline compound, then treat with a zinc phosphate conversion coating, and seal with a chromic acid rinse.

Apply a baked on thermo-setting synthetic enamel system, such as acrylic enamel or silicone polyester, to pretreated steel sheets, in one or more coats as standard with the manufacturer to achieve a minimum dry film thickness of one mil.

For roofing and siding, apply finish coat on exterior facings and manufacturer's standard wash coat on reverse face.

Colors as indicated or as selected by Architect from the manufacturer's standards.

Fluoropolymer Finish: Provide shop-applied fluoropolymer finish to galvanized steel roofing and siding panels, and related trim and accessory elements.

Clean galvanized steel with an alkaline compound, then treat with a zinc phosphate conversion coating, and seal with a chromic acid rinse.

Apply a 2-coat fluoropolymer coating system to pretreated steel. Coating shall consist of a primer applied to a dry film thickness of 0.15 mil to 0.25 mil, and finish coat of polyvinyl fluoride or polyvinylidene fluoride applied to a dry film thickness of 0.80 mils to 1.3 mils.

Colors as indicated or as selected by Architect from the manufacturer's standard.

SHEET METAL ACCESSORIES

General: Provide coated steel sheet metal accessories with coated steel roofing and siding panels

General: Provide aluminum sheet metal accessories with aluminum roofing and siding panels.

Gutters: Form gutters in sections not less than 8 feet in length, complete with end pieces, outlet tubes and other special pieces as may be required. Join sections with riveted and soldered or sealed joints. Provide expansion-type slip joint at center of runs. Furnish gutter supports spaced at 36" o.c., constructed of same metal as gutters. Provide bronze, copper, or aluminum wire ball strainers at each outlet. Finish to match roof fascia and rake.

Downspouts: Form downspouts in sections approximately 10 feet long, complete with elbows and offsets. Join sections with not less than 1-1/2" telescoping joints. Provide fasteners, designed to securely hold downspouts not less than 1" away from walls; locate fasteners at top and bottom and at approximately 5 feet on center in between. Finish to match wall panels. Provide PVC downspouts as shown on drawings and locations indicated and connect to metal gutters. Cover as indicated on drawings. See details.

FABRICATION

General: Design prefabricated components and necessary field connections required for erection to permit easy assembly and disassembly. Fabricate components in such a manner that once assembled, they may be disassembled, repackaged and reassembled with a minimum amount of labor.

Clearly and legibly mark each piece and part of the assembly to correspond with previously prepared erection drawings, diagrams and instruction manuals.

Structural Framing: Shop fabricate structural framing components to the indicated size and section complete with base plates, bearing plates and other plates required for erection, welded in place. Provide required holes for anchoring or connections either shop drilled or punched to template dimensions.

Shop Connections: Provide power riveted, bolted or welded shop connections.
Field Connections: Provide bolted field connections.

PART 3 - EXECUTION

ERECTION

Framing: Erect structural framing true to line, level and plumb, rigid and secure. Level base plates to a true even plane with fully bearing to support structures, set with double-nutted anchor bolts. Use a non-shrinking grout to obtain uniform bearing and to maintain a level base line elevation. Moist cure grout for not less than 7 days after placement.

Purlins and Girts: Provide rake or gable purlins with tight fitting closure channels and fascias. Locate and space wall girts to suit door and window arrangements and heights. Secure purlins and girts to structural framing and hold rigidly to a straight line by sag rods.
Bracing: Provide diagonal rod or angle bracing in both roof and sidewalls as indicated.

Movement resisting frames may be used in lieu of sidewall rod bracing, to suite manufacturer's standards.

Where diaphragm strength of roof or wall covering is adequate to resist wind forces, rod or other forms of bracing will not be required.

Framed Opening: Provide shapes of proper design and size to reinforce openings and to carry loads and vibrations imposed, including equipment furnished under mechanical or electrical work. Securely attach to building structural frame.

ROOFING AND SIDING

General: Arrange and nest sidelap joints so that prevailing winds blow over, not into, lapped joints. Lap ribbed or fluted sheets one full rib corrugation. Apply panels and associated items for neat and weathertight enclosure. Avoid "panel creep" or application not true to line. Protect factory finishes from damage.

Provide weatherseal under ridge cap. Flash and seal roof panels at eave and rake with rubber, neoprene or other closures to exclude weather.

Install liner panels reversed. Include finish on exposed side.

Roof Sheets: Provide sealant tape at lapped joints of ribbed or fluted roof sheets, and between roof sheeting and protruding equipments, vents and accessories.

Apply continuous ribbon of sealant tape to clean, dry surface of weather side of fastenings on end laps, and on side laps of corrugated nesting type, ribbed or fluted panels and elsewhere as necessary to make roof sheets weatherproof to driving rains.

Standing Seam Roof Panel System: Fasten roof panels to purlins with concealed clip in accordance with the manufacturer's instructions.

Install clips at each support using self-drilling fasteners.

At end laps of panels install tape caulk between panels.

Install factory-caulked cleats at standing seam joints. Machine seam cleats to the panels to provide a weather-tight joint.

Wall Sheets: Apply elastomeric sealant continuously between metal base channel (sill angle) and concrete and elsewhere as necessary for waterproofing. Handle and apply sealant and back-up in accordance with the sealant manufacturer's recommendations.

Align bottoms of wall panels and fasten panels with blind rivets, bolts or self-tapping screws. Fasten flashings, trim around openings, and similar elements with self-tapping screws. Fasten window and door frames with machine screws or bolts. When building height requires two rows of panels at gable ends, align lap and gable panels over wall panels at eave height.
Install screw fasteners with power tool having controlled torque to adjust to compress neoprene washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.

Sheet Metal Accessories: Install gutters, downspouts, ventilators, louvers, louvers, and other sheet metal accessories in accordance with manufacturer's recommendations for positive anchorage to building and weathertight mounting. Adjust operating mechanism for precise operation.

Hollow Metal Doors and Frames: Install doors and frames straight, plumb, and level. Securely anchor frames to building structure. Set units with 1/8" maximum clearance between door and frame at jambs and head, and 3/4" max. between door and floor. Adjust hardware for proper operation.

Overhead Coiling Doors: Set doors and operating equipment complete with necessary hardware, jamb and head mold stops, anchors, inserts, hangers, and equipment supports in accordance with manufacturer's installation instructions. Adjust moving hardware for proper operation.

Overhead Sectional Doors: Set doors and operating equipment complete with necessary hardware, jamb and head mold stops, anchors, inserts, hangers, and equipment supports in accordance with manufacturer's installation instructions. Adjust moving hardware for proper operation.

Windows: Anchor windows securely in place. Seal entire perimeter of each unit with the same elastomeric sealant used for panels. Adjust and lubricate operating sash (vents) and hardware for proper operation. Clean surfaces of window units. Mount screens direct to frames with tapped screw clips.

Thermal Insulation: Install insulation concurrently with installation of roof panels in accordance with manufacturer's published directions. Install blankets straight and true in one-piece lengths with both sets of tabs sealed to provide a complete vapor barrier. Locate insulation on the underside of roof sheets, extending across the top flange of purlin members and held taut and snug to roofing panels with retainer clips. Install retainer strips at each longitudinal joint, straight, and taut, nesting with roof rib to hold insulation in place.

FIELD PAINTING

General: Apply finish coating to the following factory-primed items:

Structural framing components.
Hollow metal doors and frames.

Finish colors shall be as indicated or, if not indicated, as selected by Architect from manufacturer's standards.

Cleaning and Touch-Up: Prior to application of finish coats, clean component surfaces of matter that could preclude paint bond.

Touch-up abrasions, marks, skips, or other defects to shop-primed surfaces with same type material as shop primer.

Protection: Protect work of other trades. Correct painting related damages by cleaning, repairing or replacing, and refinishing, as directed by the Architect.

Coordination: Provide finish coats that are compatible with prime paints used. Provide barrier coats over incompatible primers where required. Notify the Architect in writing of problems anticipated using the specified coatings with substrates primed by others.

Surface Preparation: Perform preparation and cleaning procedures in strict accordance with coating manufacturer's instructions for each substrate condition.

Remove hardware and accessories and similar items in place and not to be finish-painted, or provide surface-applied protection. Reinstall removed items.

Material Preparation: Mix, prepare, and store painting and finishing materials in accordance with manufacturer's directions.

Application: Apply painting and finishing materials in accordance with manufacturer's directions. Use applicators and techniques best suited for material and surfaces to which applied.

Apply additional coats when undercoats or other conditions shown through final coat, until paint film is of uniform finish, color and appearance.

Finish exterior hollow metal doors on tops, bottoms, and edges same as exterior faces.

Sand lightly between succeeding enamel or varnish coats. Thickness of not less than 2.5 mils for the entire coating system of prime and finish coats.
Shop-Primed Metal Surfaces: 2 coats semi-gloss alkyd enamel (FS TT-E-529).

Dissimilar Materials: Where aluminum surfaces come in contact with ferrous metal or other incompatible materials, keep aluminum surfaces from direct contact by applications to the other material as follows:

One coat of zinc chromate primer, FS TT-P-645, followed by two coats of aluminum paint, SSPC-Paint 101.
In lieu of 2 coats of aluminum paint, apply one coat of high-build bituminous paint, SSPC-Paint 12, applied to a thickness of 1/16" over zinc chromate primer.

Backpaint aluminum surface where it is impractical to paint the other surface.

END OF SECTION 13120

WALK - IN SPECIFICATIONS

PANELS
FOAMED IN PLACE URETHANE FOAM 4"

EXTERIOR FINISH
WALL: GALVALUME - EMBOSSED 26 GA
TOP: GALVALUME - EMBOSSED 26 GA

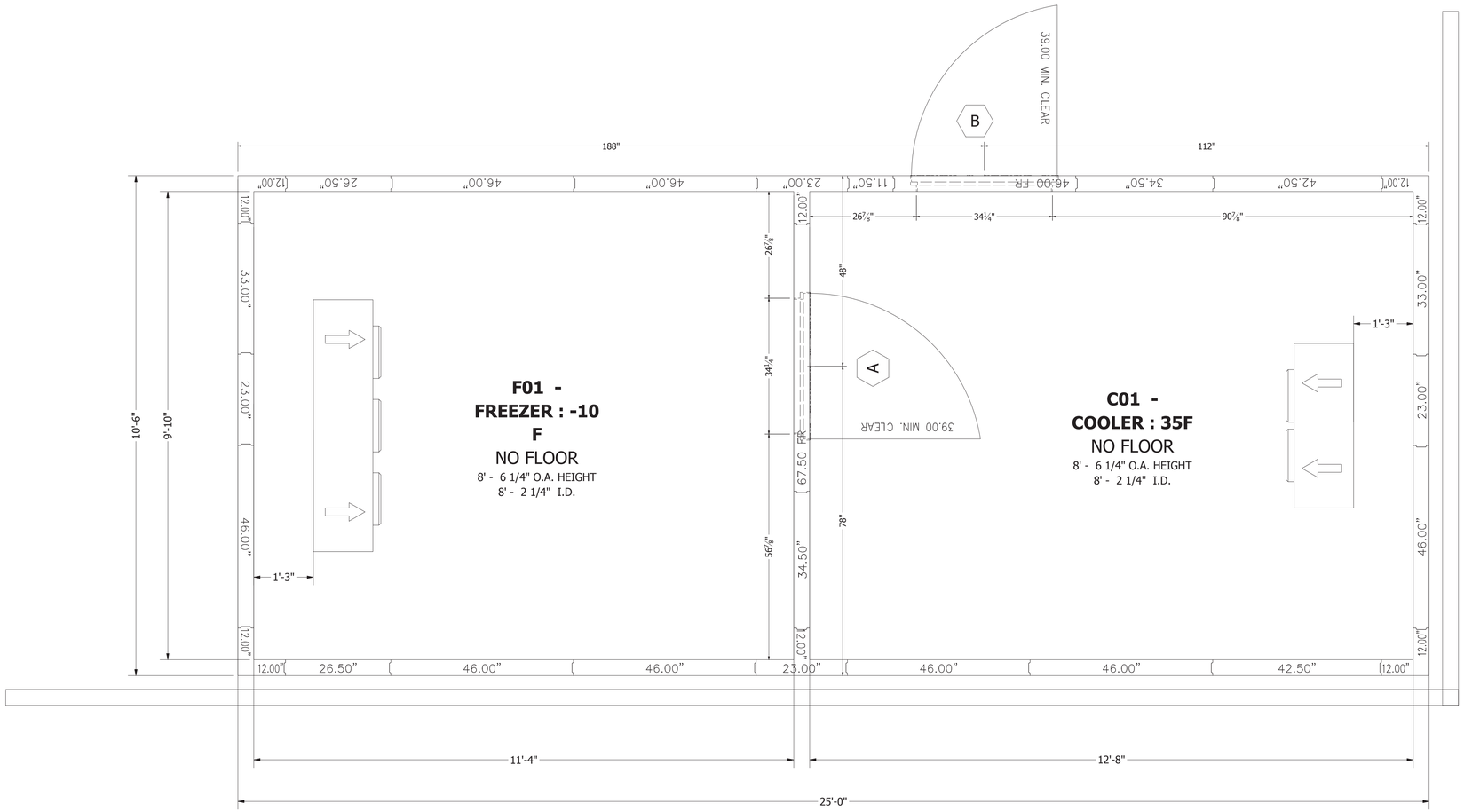
INTERIOR FINISH
WALL: GALVALUME - EMBOSSED 26 GA
TOP: GALVALUME - EMBOSSED 26 GA

FLOOR TYPE
F01 FREEZER : SCREED, VINYL 4" X 4" HIGH
C01 COOLER : SCREED, VINYL 4" X 4" HIGH

WALK-IN ACCESSORIES
(2) LIGHT FIXTURE, 48" KASON 1810LX LED (WITH DIODE STRIPS)

REFRIGERATION
PCL299LOP-3 VOLTS: 208-230-60-3,BTU:10100
EL36-120-2EC-PCL-4 VOLTS: 208-230-60-1,BTU:12000
TEMP: WALK-IN -10,AMBIENT TEMP: 90

PCL99MOP-2 VOLTS: 208-230-60-1,BTU:8781
AM26-87-2EC-PCL-4 VOLTS: 208-230-60-1,BTU:8700
TEMP: WALK-IN 35,AMBIENT TEMP: 90



WALLS LAYOUT

ATTENTION

1. ALL WALK-INS ARE DESIGNED FOR INDOOR APPLICATION UNLESS NOTED OTHERWISE
2. PENETRATIONS AND SEALING OF ARE THE RESPONSIBILITY OF OTHERS
3. ALLOW 2" MINIMUM CLEARANCE WITH AIRFLOW OF 5 CFM PER 100 SQ FT AROUND ENTIRE PANEL SURFACES
4. GENERAL CONTRACTOR TO REFER TO DESIGN AND SPECIFICATION MANUAL FOR FLOOR DETAIL INFORMATION
5. QUARRY TILE OR CONCRETE FLOOR APPLICATIONS: METAL PANEL FACING MAY BE SUSCEPTIBLE TO STAINING DUE TO EXCESSIVE MOISTURE CREATED BY THE HYDRATION OF CONCRETE TYPE MATERIALS. IT IS ABSOLUTELY NECESSARY THAT EACH ROOM BE PROPERLY VENTILATED. SPECIAL PRECAUTIONS MUST ALSO BE TAKEN WHEN USING MURIATIC ACID DUE TO EFFECTS HYDROCHLORIC FUMES HAVE ON METAL MATERIALS
6. PANEL LAYOUT MAY CHANGE BASED ON OPTIMAL MANUFACTURING STANDARDS
7. WALK-IN TOP IS NOT DESIGNED FOR FOOT TRAFFIC OR STORAGE UNLESS NOTED OTHERWISE
8. IF CONDENSING UNIT IS LOCATED IN THE INTERIOR OF BUILDING A MINIMUM OF 24" OF CLEARANCE IS REQUIRED AROUND TOP AND SIDES
9. FLOOR, CURB, AND PIT DETAILS ARE FOR GENERAL REFERENCE ONLY. THESE DRAWINGS SHOULD NOT BE USED OR INCORPORATED IN THE DESIGN OR PREPARATION OF THE INSULATED FLOOR, SUB-SLAB OR CURBS, WITHOUT HAVING THE DESIGN REVIEWED BY A QUALIFIED ENGINEER. ALL FOOTINGS, FOUNDATION WALLS AND CONCRETE WEAR SLABS ARE THE RESPONSIBILITY OF THE BUILDING ENGINEER OR ARCHITECT.
10. DRAWING NOT INTENDED FOR INSTALLATION - DESIGN APPLICATION ONLY.

FOR APPROVAL

YOU MUST REVIEW ALL NOTES, DETAILS, DIMENSIONS, FINISHES, DOORS SIZES, LOCATIONS AND SWINGS

☐ **APPROVAL**- NO CHANGE REQUIRED, MANUFACTURE AS DRAWN.

☐ **APPROVED AS NOTED**- MAKE REQUIRED CHANGES AND MANUFACTURE AS DRAWN.

☐ **NOT APPROVED**- DESIGN CHANGES REQUIRE DRAWING REVISION AND RESUBMISSION.

DATE:_____ BY:_____

SPACE DESIGNATED FOR ENGINEERS SEAL

Kolpak
2915 Tennessee Avenue North, Parsons, TN 38363
(731) 847-2131 • FAX (731) 847-7569
A Hoshizaki Company

DRAWING #: A024127R2
UNIT #: 001
ORDER #:

CASH-WA DISTRIBUTING CO INC

PERKINS COUNTY SCHOOLS

NO.	DATE	BY	DESCRIPTION

LEGEND
- (A) = ALARM
- (F) = FAN CUT OFF SWITCH
- (J) = JUNCTION-BOX
- (L) = DOOR LIGHT
- (O) = JUNCTION-BOX FOR OUTLET
- (S) = SWITCH
- (T) = THERMOMETER
- (V) = PRESSURE RELIEF VENT

NOTE
REFERENCE LAYOUT(S) FOR LOCATIONS AND FOR SPECIFICATIONS REFER TO GENERAL NOTES.

GRANT,NE 69140 USA

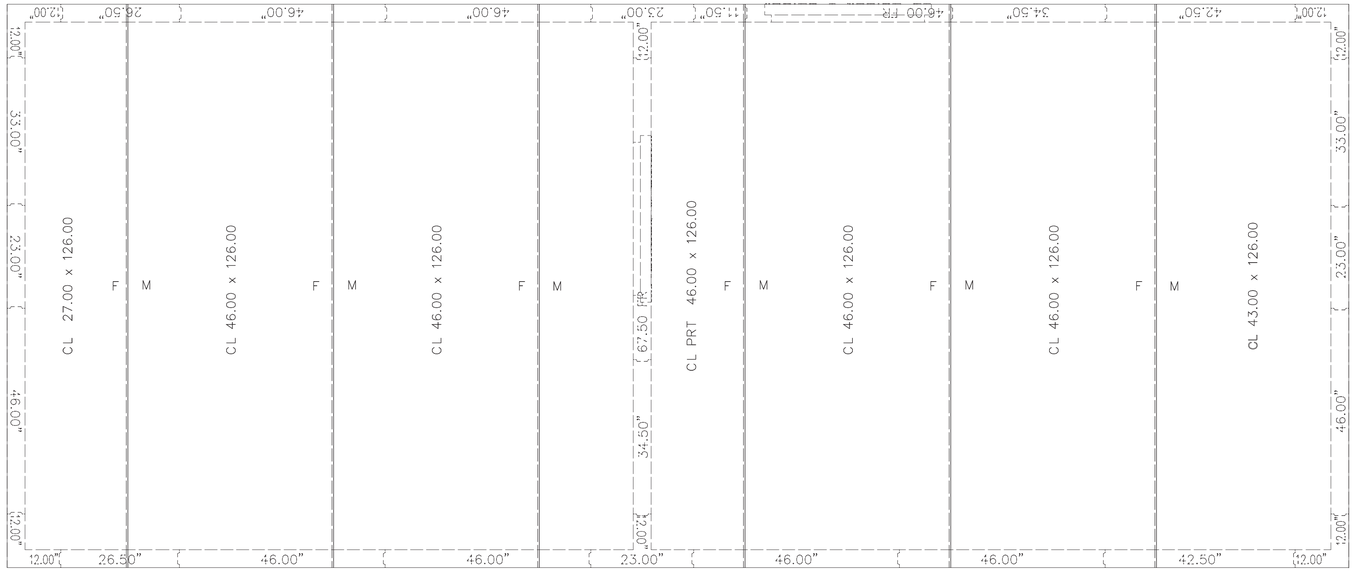
SHEET # AD-1 of 6

SCALE
PLANT LOC.

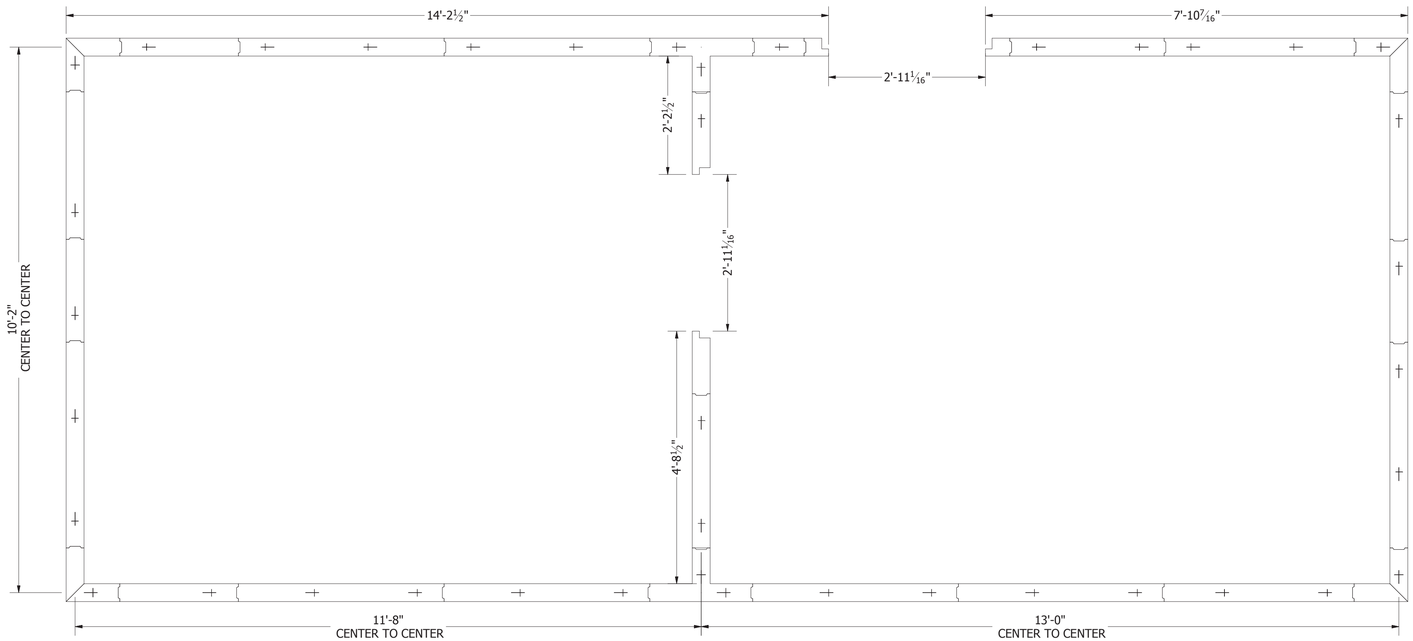
DRAWN BY:	DATE:	CHECK BY:	DATE:

COLOR CODE

WALK - IN SPECIFICATIONS



TOPS LAYOUT



FLOORS LAYOUT

ATTENTION

1. ALL WALK-INS ARE DESIGNED FOR INDOOR APPLICATION UNLESS NOTED OTHERWISE
2. PENETRATIONS AND SEALING OF ARE THE RESPONSIBILITY OF OTHERS
3. ALLOW 2" MINIMUM CLEARANCE WITH AIRFLOW OF 5 CFM PER 100 SQ FT AROUND ENTIRE PANEL SURFACES
4. GENERAL CONTRACTOR TO REFER TO DESIGN AND SPECIFICATION MANUAL FOR FLOOR DETAIL INFORMATION
5. QUARRY TILE OR CONCRETE FLOOR APPLICATIONS: METAL PANEL FACING MAY BE SUSCEPTIBLE TO STAINING DUE TO EXCESSIVE MOISTURE CREATED BY THE HYDRATION OF CONCRETE TYPE MATERIALS. IT IS ABSOLUTELY NECESSARY THAT EACH ROOM BE PROPERLY VENTILATED. SPECIAL PRECAUTIONS MUST ALSO BE TAKEN WHEN USING MURIATIC ACID DUE TO EFFECTS HYDROCHLORIC FUMES HAVE ON METAL MATERIALS
6. PANEL LAYOUT MAY CHANGE BASED ON OPTIMAL MANUFACTURING STANDARDS
7. WALK-IN TOP IS NOT DESIGNED FOR FOOT TRAFFIC OR STORAGE UNLESS NOTED OTHERWISE
8. IF CONDENSING UNIT IS LOCATED IN THE INTERIOR OF BUILDING A MINIMUM OF 24" OF CLEARANCE IS REQUIRED AROUND TOP AND SIDES
9. FLOOR, CURB, AND PIT DETAILS ARE FOR GENERAL REFERENCE ONLY. THESE DRAWINGS SHOULD NOT BE USED OR INCORPORATED IN THE DESIGN OR PREPARATION OF THE INSULATED FLOOR, SUB-SLAB OR CURBS, WITHOUT HAVING THE DESIGN REVIEWED BY A QUALIFIED ENGINEER. ALL FOOTINGS, FOUNDATION WALLS AND CONCRETE WEAR SLABS ARE THE RESPONSIBILITY OF THE BUILDING ENGINEER OR ARCHITECT.
10. DRAWING NOT INTENDED FOR INSTALLATION - DESIGN APPLICATION ONLY.

FOR APPROVAL

YOU MUST REVIEW ALL NOTES, DETAILS, DIMENSIONS, FINISHES, DOORS SIZES, LOCATIONS AND SWINGS

☐ **APPROVAL**- NO CHANGE REQUIRED, MANUFACTURE AS DRAWN.

☐ **APPROVED AS NOTED**- MAKE REQUIRED CHANGES AND MANUFACTURE AS DRAWN.

☐ **NOT APPROVED**- DESIGN CHANGES REQUIRE DRAWING REVISION AND RESUBMISSION.

DATE:_____ BY:_____

SPACE DESIGNATED FOR ENGINEERS SEAL

Kolpak
2915 Tennessee Avenue North, Parsons, TN 38363
(731) 847-3131 • FAX (731) 847-7508
(731) A Manitowoc Company

DRAWING #: A024127R2
UNIT #: 001
ORDER #:

CASH-WA DISTRIBUTING CO INC

PERKINS COUNTY SCHOOLS

NO.	DATE	BY	DESCRIPTION

LEGEND

- (A) = ALARM
- (F) = FAN CUT OFF SWITCH
- (J) = JUNCTION-BOX
- (L) = DOOR LIGHT
- (O) = JUNCTION-BOX FOR OUTLET
- (S) = SWITCH
- (T) = THERMOMETER
- (V) = PRESSURE RELIEF VENT

NOTE
REFERENCE LAYOUT(S) FOR LOCATIONS AND FOR SPECIFICATIONS REFER TO GENERAL NOTES.

GRANT,NE 69140 USA

SHEET # AD-2 of 6

SCALE
PLANT LOC.

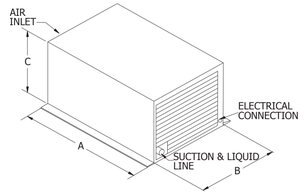
DRAWN BY:	DATE:	CHECK BY:	DATE:

COLOR CODE

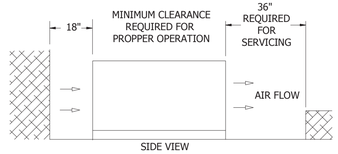
COMPARTMENT		CONDENSING UNIT																		
	TEMP F				DIMENSIONS				COMPRESSOR						CONDENSER FAN MTR			TOTAL	MX AMP	CONNECTIONS O.D.		RCV CAP
DESCRIPTION	WI	QTY	MODEL#	COMPRESSOR TYPE	L (A)	W (B)	H (C)	LBS	HP	RLA	LRA	V	HZ	Φ	FLA	V	Φ	AMPS	DISC	SUCT	LIQ	@ 90% FULL (lbs)
Freezer	-10	1	PCL299LOP-3	Hermetic	33	40.125	22.25	219	3	11.9	85	208-230	60	3	2.2	208-230	1	14.3	25	7/8	3/8	13.6
Cooler	35	1	PCL99MOP-2	Hermetic	33	25.5	19.25	156	1	6	43	208-230	60	1	1.1	208-230	1	7.2	15	5/8	3/8	10.4

COMPARTMENT		UNIT COOLER										
	TEMP F		MODEL #	DIMENSIONS				FAN		HEATER			CONNECTIONS O.D.		
DESCRIPTION	WI	QTY	(DEFROST: A-AIR E-ELECTRIC)	L (D)	W (E)	H (F)	LBS	AMP	V	AMP	V	Φ	SUCT	LIQ	DRAIN
Freezer	-10	1	EL36-120-2EC-PCL-4	63.5	15	15.25	105	1.35	208-230	13	208-230	1	7/8	3/8	3/4
Cooler	35	1	AM26-87-2EC-PCL-4	41.5	15	15.25	67	0.9	208-230	0	N/A	0	7/8	3/8	3/4

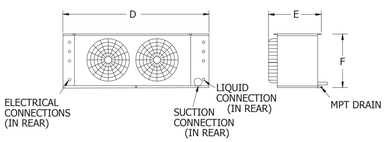
ATTENTION: REFRIGERATION DRAWING IS REFERENCE ONLY. REPRESENTATION MAY NOT BE TO SCALE AND OR MAY NOT REFLECT INFORMATION SPECIFIED IN CHART ABOVE.



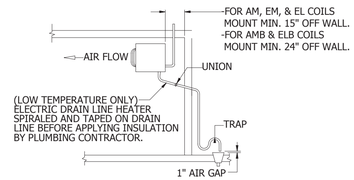
CONDENSING UNIT ASSEMBLY



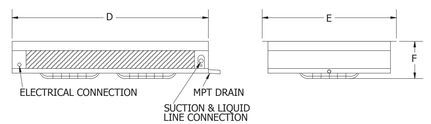
CLEARANCE REQUIREMENT



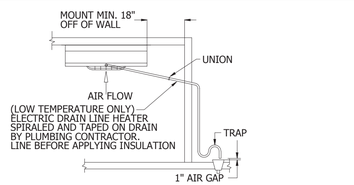
EVAPORATOR - MODEL AM, EM, EL, AMB, ELB



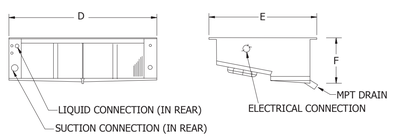
DRAIN LINE DETAIL



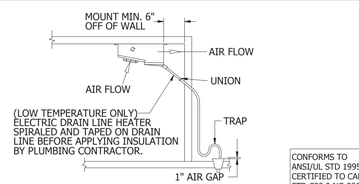
EVAPORATOR - MODEL AMC, EMC, ELC, AML, ELL, TW, MTW



DRAIN LINE DETAIL



EVAPORATOR - MODEL SLA, SLE, ASLA, ASLE, TL



DRAIN LINE DETAIL

CONFORMS TO ANSI/UL STD 1995
CERTIFIED TO CAN/CSA STD C22.2 NO.236-05
APPLIES TO RDI REFRIGERATION ONLY
Intertek 40807

Kolpak
295 Tennessee Avenue North, Parsons, TN 38363
(731) 847-2181 FAX (731) 847-7587
A MacNeace Company

DRAWING #: A024127R2
UNIT #: 001
ORDER #:

CASH-WA DISTRIBUTING CO INC

PERKINS COUNTY SCHOOLS

NO.	DESCRIPTION	BY	DATE

LEGEND

- (A) = ALARM
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NOTE
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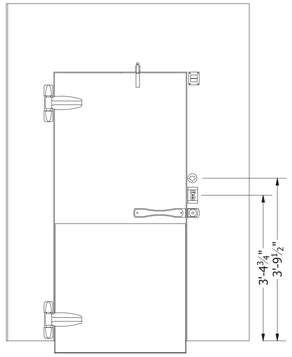
GRANT,NE 69140 USA

SHEET # AD-6 of 6

SCALE
PLANT LOC.

DRAWN BY:	DATE:	CHECK BY:	DATE:

COLOR CODE



OFFSET −2.25

DR 34.00" x 78.00"
FR 67.50" x 94.25"

DW-1

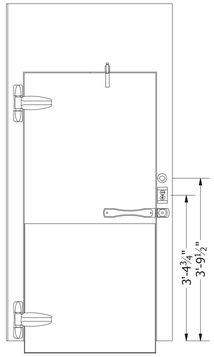
A

FRAME:
RECESSED 0" WITH 0" LEVELING SAND AND 0" TILE AND GROUT
EXT: GALVALUME - EMBOSSED 26 GA
INT: GALVALUME - EMBOSSED 26 GA

PLUG:
EXT: GALVALUME - EMBOSSED 26 GA
EXT: KICKPLATE, ALUM .063 DIAMOND TREAD 36" HIGH
INT: GALVALUME - EMBOSSED 26 GA
INT: KICKPLATE, ALUM .063 DIAMOND TREAD 36" HIGH

HARDWARE AND ACCESSORIES:
(1) THERMOMETER - 2 INCH DIAL
(1) SWITCH - PILOT LIGHT INCLUDED UL
(1) VENT - PRESSURE RELIEF, HEATED KASON 1825
(1) DOOR CLOSER - KASON 1098 (W/COVER AND HOOK)
(3) THRESHOLD, STAINLESS STEEL 14 GA
(2) HINGE - KASON 1345 ADJUSTABLE (SPRING ASSISTED)
(1) HANDLE - KASON 28 (WITH LOCKING ASSEMBLY)
(1) HEATER WIRE, 2.5 WATT / FT

DOOR ELECTRICAL INFORMATION				
DESCRIPTION	QTY	VOLT	AMP	AMP LOAD
VAPOR PROOF LIGHT	0	115	1	0
FLUORESCENT LIGHT	0	115	1.7	0
LED LIGHT	0	115	0.4	0
HEATER WIRE	1	115	0.5	0.5
DIGITAL THERMOMETER	0	115	0.1	0
HEATED AIR VENT	1	115	0.04	0.04
HEATED VIEWPORT	0	115	0.9	0
AIR SHIELD	0	115	1.4	0
IN/OUT BUZZER	0	115	0.1	0
MODULARM 75/75B OR DATALARM	0	115	6	0
OTHER ALARMS	0	115	1	0
115 VOLT, SINGLE PHASE, 60 Hz, TOTAL DOOR AMPS:				0.54



DR 34.00" x 78.00"
FR 46.00" x 94.25"

DW-2

B

FRAME:
RECESSED 0" WITH 0" LEVELING SAND AND 0" TILE AND GROUT
EXT: GALVALUME - EMBOSSED 26 GA
INT: GALVALUME - EMBOSSED 26 GA

PLUG:
EXT: GALVALUME - EMBOSSED 26 GA
EXT: KICKPLATE, ALUM .063 DIAMOND TREAD 36" HIGH
INT: GALVALUME - EMBOSSED 26 GA
INT: KICKPLATE, ALUM .063 DIAMOND TREAD 36" HIGH

HARDWARE AND ACCESSORIES:
(1) SWITCH - PILOT LIGHT INCLUDED UL
(1) THERMOMETER - 2 INCH DIAL
(1) HANDLE - KASON 28 (WITH LOCKING ASSEMBLY)
(2) HINGE - KASON 1345 ADJUSTABLE (SPRING ASSISTED)
(1) DOOR CLOSER - KASON 1098 (W/COVER AND HOOK)

DOOR ELECTRICAL INFORMATION				
DESCRIPTION	QTY	VOLT	AMP	AMP LOAD
VAPOR PROOF LIGHT	0	115	1	0
FLUORESCENT LIGHT	0	115	1.7	0
LED LIGHT	0	115	0.4	0
HEATER WIRE	0	115	0.9	0
DIGITAL THERMOMETER	0	115	0.1	0
HEATED AIR VENT	0	115	0.1	0
HEATED VIEWPORT	0	115	0.9	0
AIR SHIELD	0	115	1.4	0
IN/OUT BUZZER	0	115	0.1	0
MODULARM 75/75B OR DATALARM	0	115	6	0
OTHER ALARMS	0	115	1	0
115 VOLT, SINGLE PHASE, 60 Hz, TOTAL DOOR AMPS:				0

Kolpak
2915 Tennessee Avenue North, Parsons, TN 38363
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DRAWING #: A024127R2
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CASH-WA DISTRIBUTING CO INC

PERKINS COUNTY SCHOOLS

NO.	DATE	BY	DESCRIPTION

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GRANT,NE 69140 USA

SHEET # AD-4 of 6

SCALE
PLANT LOC.

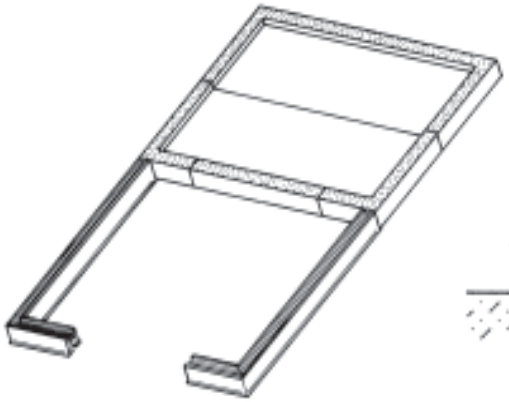
DRAWN BY:	DATE:	CHECK BY:	DATE:

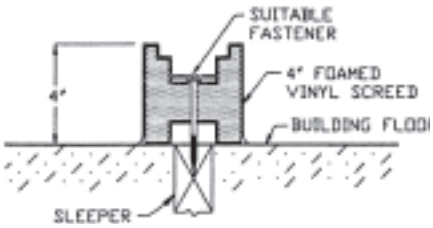
COLOR CODE

Floor Screeds

Kolpak

4" Vinyl Screeds





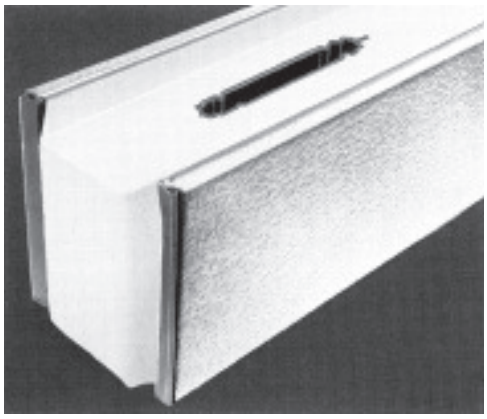
The four-inch high foamed plastic screed is normally used to adapt a floorless cooler compartment to the standard floor of a freezer compartment. This combination provides an insulated regular floor in the freezer compartment and floorless application in the cooler compartment. The screed consists of a vinyl extrusion with urethane insulation between the vinyl to insulate and add rigidity. There is a flexible coved lip on both sides of the screed for easier cleaning and greater sanitation. The screed has factory-installed clips to allow the wall panels to be locked in position.

4" Metal Screeds

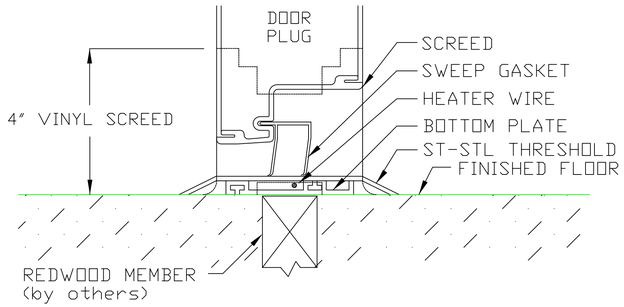
Available for all applications.

The four-inch metal screed is used in situations where the screed finish must match the wall finish. Metal screeds consist of metal surfaces with urethane insulation (sandwich-type construction). The screed would require coving to be installed in the field after installation.

Installation involves fastening the screeds to the building floor with the fasteners provided or with other suitable fasteners.

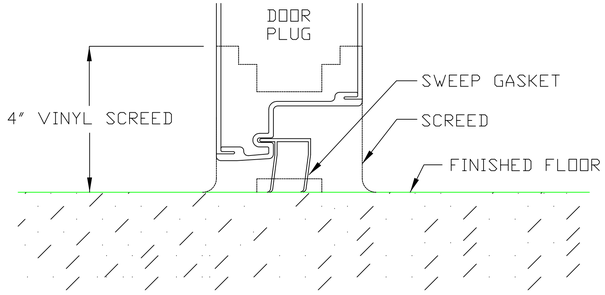


In the interest of continued product improvement, we reserve the right to change specifications without notice.



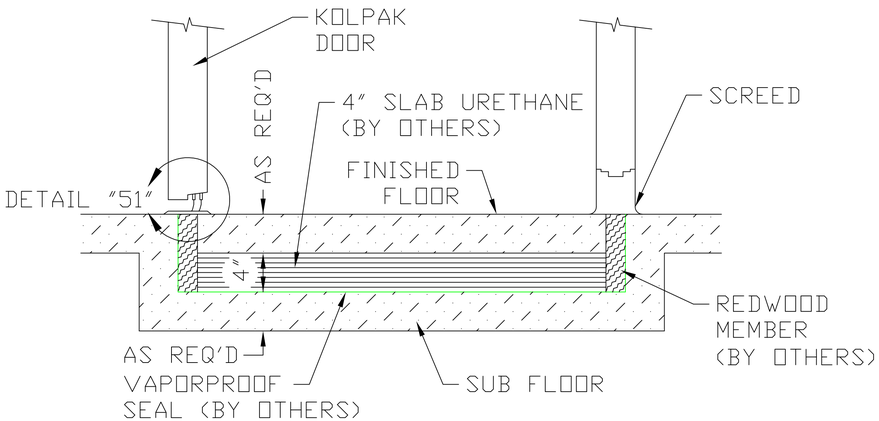
FLOORLESS FREEZER WITH 4" VINYL FOAM SCREED

DETAIL (51)



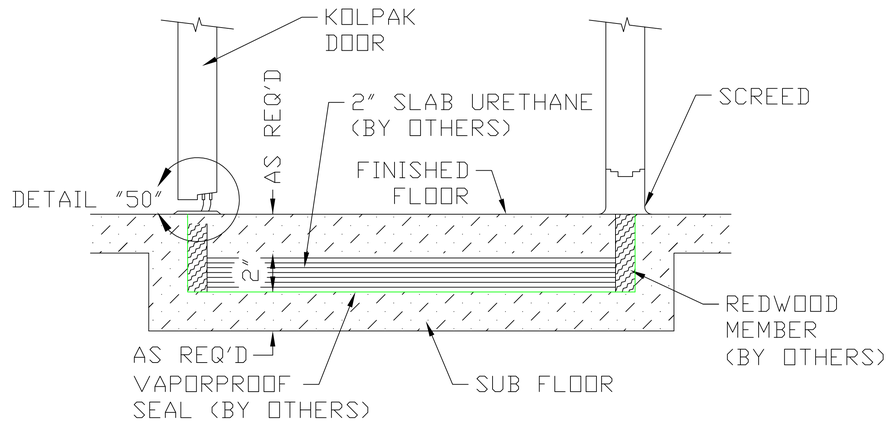
FLOORLESS COOLER WITH 4" VINYL FOAM SCREED

DETAIL (50)



SLEEPER CROSS SECTION

FREEZER



SLEEPER CROSS SECTION

COOLER