

ADDENDUM TWO

Addendum Two to the drawings and specifications prepared by Myszak+Palmer for **Hutsonville Fire Station**, Hutsonville, Illinois.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum, Subsequent Addenda, and include the appropriate content of same within their bid proposal

ADDENDUM TWO

SPECIFICATIONS

1. Instructions to Bidders

CLARIFICATION – BID SUBMITTAL

H. Bid Submittal

1. Proposals shall be sealed in an opaque envelope marked with the bidder's name and business address, and bearing the following caption:

Proposal for: New Facility for the Hutsonville Fire Department

- a. *Mail To* Proposals shall be addressed to:, PO Box 95, Hutsonville, Illinois 62433, Attn: Charles Eckert
- b. *Hand Delivered* Proposals shall be hand delivered to:, Wabash Coffee House & Big River Antiques, 101 N. Main Street, Hutsonville, Illinois 62433, Attn: Charles Eckert

2. Specification Section 133419

METAL BUILDING SYSTEMS – APPROVED MANUF.

- A. PART 2 – PRODUCTS - SECTION 2.1 METAL BUILDINGS; SUBSECTION A, Item 1.
 - A. Available Manufacturers
 1. Butler Manufacturing
 2. Gulf States Manufacturers
 3. American Buildings
 4. **Mesco Building Solutions**
 5. **Chief Buildings**

3. Specification Section 087100

DOOR HARDWARE – INCLUDE SECTION

- A. See attached Specification Section 087100 – Door Hardware
- B. Delete all reference to previous allowance.

4. Specification Section 088000

GLAZING – ADDITIONAL SECTIONS

- A. See attached Specification Section 088000 – Glazing
- B. Door Manufacturer to supply 4x25 lite kits.
- C. All door glazing shall be non-fire rated.
- D. Glazing in all doors shall be tempered.

- 5. Specification Section TRENCH DRAINS – ACCEPTABLE EQUAL**
- A. **ZURN Z812** – Shall be considered an acceptable equal to the trench drains shown on Sheet P1.1.
 - B. See attached Specification Sheet and Installation Instructions.
- 6. Specification Section 133419 ROOF PANEL – CLARIFICATION**
- A. **REMOVE** – Part 2.2 - Exterior Roof Panels
 - B. **REPLACE WITH** – See Attached Specification 133419 – 2.2 Standing Seam Metal Roof System
 - C. No 3rd party inspection is needed.
- 7. Specification Section 283111 FIRE-ALARM SYSTEM – INCLUDE SECTION**
- A. See attached Specification Section 283111 – Digital, Addressable Fire-Alarm System.
- 8. Specification Section 262727 TELEPHONE AND DATA – INCLUDE SECTION**
- A. See attached Specification Section 262727 – Telephone and Data.
- 9. Steel Products Procurement Act STEEL PRODUCTS PROCUREMENT ACT - INFORMATION**
- A. See attached Document clarifying the Steel Products Procurement Act.

DRAWINGS

- 5. Drawing A5.2 CLARIFICATION – FRAME ELEVATION “C”**
- A. Head dimension shall be 2” in lieu of 3¾”
 - B. See attached updated Frame Elevation “C” – Drawing 1.
- 6. Drawing A5.2 CLARIFICATION – DOOR ELEVATION “2 & 3”**
- A. Wood doors shall be Marshfield-Enviroclad UV, Flush Wood – Solid Core Doors, plain-sliced Rotary Birch in Honey finish. Or equal.
 - B. See attached updated Frame Elevation “C” – Drawing 1
- 7. Drawing S2 CLARIFICATION – TRENCH DRAIN DETAIL #9**
- A. See attached updated Trench Drain Detail #9 – Drawing 2
 - B. Plumbing Contractor shall provide grating.
- 8. General Notes ROOF PANEL/LINER PANEL/METAL PANELS - CLARIFICATIONS**
- A. Roofing in all wood framed areas shall consist of Standing Seam 24 Gauge Mechanically Fastened and Seamed Metal Roofing on 30# Felt Paper on 7/16” OSB Decking.
 - B. Note #8 on Sheet A3.1 and note #25 on Sheets A4.1 and A4.2 shall read Standing Seam 24 Gauge Mechanically Fastened and Seamed Metal Roof Panels (By Pre-Engineered Building Manufacturer)
 - C. Interior Metal Liner Panels are to be 28 Gauge, Polar White, or equal in color, and have a 25 year paint system warranty. Pre-Engineered Building Manufacturer shall provide base and jamb trim in Apparatus Area.
 - D. There shall be no accent band above O.H. Doors on sheet A3.1.
 - E. Collateral Load of the building is 3 pounds per sq. ft.

9. General Notes

STUD WALLS/INSULATION/HOUSE WRAP- CLARIFICATIONS

- A. 2x4 insulated stud walls shall receive kraft faced R13 batt insulation.
- B. Exterior 2x6 insulated stud walls shall receive kraft faced R19 batt insulation with house wrap on the exterior.

10. General Notes

MEP - CLARIFICATIONS

- A. All Exterior Lighting shall be routed through photocell.
- B. Electrical contractor shall provide switches for each "H" fan.
- C. All Controls will be by Mechanical Contractor.

Pages 1 through 21 constitute the total makeup of **Addendum Two** with attached drawings and other supporting data following page 1. Contractor shall notify Architect if all pages are not received.

myszak + palmer
ARCHITECTS



P:\CURRENT Projects\13-39 Hutsonville Fire Station\Addendum\Addendum #2

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: Hardware Schedule.
- B. Deliver keys to Owner.

PART 2 - PRODUCTS

2.1 HARDWARE

- A. Available Manufacturers:
 - 1. Schlage Lock Co.
 - 2. Best Lock Co.
 - 3. Corbin Russwin Architectural Hardware
 - 4. Sargent Manufacturing Co.
 - 5. Yale
 - 6. Hager
- B. Key locks to Owner's new master-key system.
 - 1. See Section 17000 for Proximity Reader System (Alternate Bid).
- C. Provide wall stops or floor stops for doors without closers.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Mount hardware in locations recommended by the Door and Hardware Institute, unless otherwise indicated.

3.2 HARDWARE SCHEDULE

Set 1

Opening # A101A

1- CFM83 Continuous	628
1- 33NL Rim Exit Device	626
1- 20-022 Rim Cylinder	626
1- 4111 Cush Closer	689
1- 4110-30 Cush Shoe Support	689
1- 4110-61 Blade Stop Spacer	689

Balance of hardware by door and frame supplier.

Set 2

Opening #'s A103, A104, A108

Each to receive:

3- BB5000 x 4.5 x 4.5 Butts	626
1- D53PD x RHO Lockset	626
1- 236W Wall Stop	626
3- 307D Silencers	Grey

Set 3

Opening #'s A106, A107

Each to receive:

3- BB5000 x 4.5 x 4.5 Butts	626
1- D40S x RHO Privacy Lockset	626
1- 236W Wall Stop	626
3- 307D Silencers	Grey

Set 4

Opening # A101B, A105A, A105B

3- BB5002 x 4.5 x 4.5 x N.R.P. Butts	630
1- 99NL Rim Exit Device	626
1- 20-022 Rim Cylinder	626
1- 4111 Cush Closer	689
1- 190S x 8 x 34 Kick Plate	630
1- 330AV3684 Weatherstrip	628
1- 171A36 Threshold	628
1- 345AV36 Sweep	628

END OF SECTION 08710

SECTION 088000 - GLAZING

PART I - GENERAL

I.1 GLASS PRODUCTS

- A. Float Glass: ASTM C 1036, Type I, Quality-Q3, Class I (clear) unless otherwise indicated.
 - 1. Thickness: 1/4"
 - 2. Manufacturer: Provide the following:
 - 3. Guardian SunGuard; (866) 482-7374; www.SunGuardGlass.com
Contact: Dale Hauser
Telephone: (765) 404-0964

I.2 INSULATING GLASS

- A. Manufacturers: Subject to compliance with requirements, Provide the following:
 - 1. Guardian SunGuard; (866) 482-7374; www.SunGuardGlass.com
Contact: Dale Hauser
Telephone: (765) 404-0964
- B. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190, and complying with other requirements specified.

Typical Exterior Windows

- 1. Sealing / Glazing System: 1/4" 'Ultra White' exterior, 1/2" airspace (dual seal) with 1/4" 'Ultra White' interior pane. Inside of interior pane shall be tinted with SN 68 for Ultra Clear appearance.
- C. Glass: Comply with applicable requirements in "Glass Products" Article as indicated by designations in "Insulating-Glass Types" Article.

I.3 GLAZING SEALANTS

- A. General:
 - 1. Compatibility: Provide glazing sealants that are compatible with one another and with other materials they will contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
 - 2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.

3. Sealants used inside the weatherproofing system, shall have a VOC content of not more than 250 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
 4. Sealants used inside the weatherproofing system shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
 5. Colors of Exposed Glazing Sealants: As selected by Architect.
- B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.
- I. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Dow Corning Corporation; 790.
 - b. GE Advanced Materials - Silicones; SilPruf LM SCS2700.
 - c. May National Associates, Inc.; Bondaflex Sil 290.
 - d. Pecora Corporation; 890.
 - e. Sika Corporation, Construction Products Division; SikaSil-C990.
 - f. Tremco Incorporated; Spectrem I.



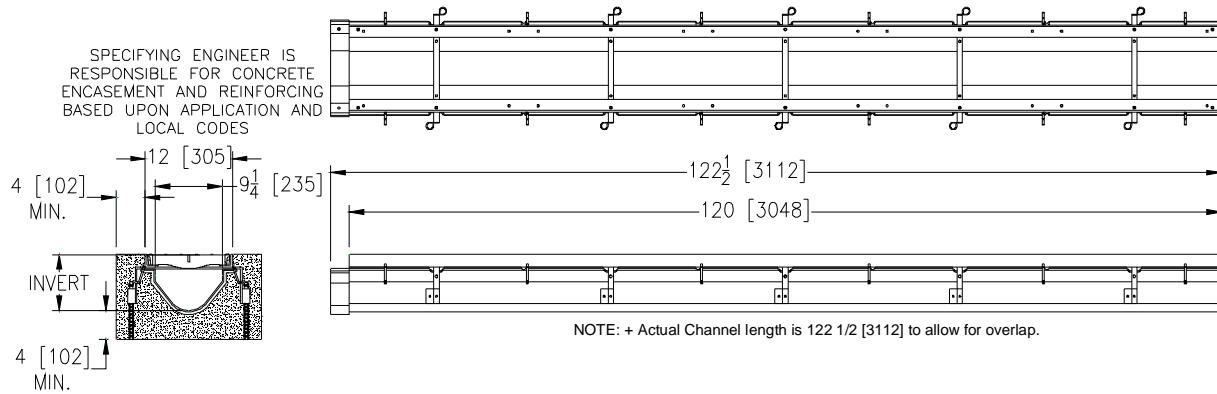
Z812

SPECIFICATION SHEET

12 [305] WIDE REVEAL FIBER REINFORCED POLYMER TRENCH DRAIN SYSTEM WITH STEEL FRAME

TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



ENGINEERING SPECIFICATION: Zurn Z812

Channels shall be 120 [3048] long, 12 [305] wide reveal and have a 9-1/4 [235] throat. Modular channel sections shall be made of Fiber Reinforced Polymer (FRP). Shall have a positive mechanical connection between channel sections that will not separate during the installation and shall mechanically lock into the concrete surround every 12 [305]. Channels shall weigh less than 5.05 lbs.[2.29kg] per linear foot, have a smooth, 3 [76] radiused self cleaning bottom with a Manning's coefficient of .009 and 1.04% or neutral 0% built in slope. Shall be provided with standard DGC grates that lock down to frame. Zurn 12 [305] wide reveal Ductile Iron Slotted Grate conforming to ASTM specification A536-84, Grade 80-55-06. Ductile Iron grate is rated class C per the DIN EN1433 top load classifications. Supplied in 24 [608] nominal lengths with 13/16 [21] wide slots, and 1-1/2 [38] bearing depth. Grate has an open area of 80.80 sq. in per ft. [171027 sq. mm per meter]. The 1/4 [6] thick Heavy-Duty Carbon Steel Frame Assembly conforms to ASTM specification A36 with 12-4 [102] long concrete anchors per 120 [3048]. Grate lockdown bars are to be integral to the frame. The frame is supplied with a powder coated finish. All welds must be performed by a certified welder per ASTM standard AWS D1.1. Frames Shall be produced in the U.S.A.

PREFIX OPTIONS (Check/specify appropriate options)

- Z Ten-foot Fiber Reinforced Polymer (FRP) Channel *
- ZV Ten-foot Fiber Reinforced Vinylster Channel

SUFFIX OPTIONS (Check/specify appropriate options)

Outlet Adapters Add/Each

- E1 Closed End Cap
- E4 4 [102] No-Hub End Outlet
- E6 6 [152] No-Hub End Outlet
- E8 8 [203] No-Hub End Outlet
- U4 4 [102] No-Hub Bottom Outlet
- U6 6 [152] No-Hub Bottom Outlet
- U8 8 [203] No-Hub Bottom Outlet

Frame Options

- CBF Black Acid Resistant Coated Top Frame
- CWF White Acid Resistant Coated Top Frame
- SW Sidewall Extensions - 10-3/4 [273] High

Grate Options (Load Classifications are per DIN EN1433)

- BDC Black Acid Resistant Epoxy Coated Ductile Grate - Class C
- BDF Black Acid Resistant Epoxy Coated Ductile Grate - Class F
- DC Ductile Iron Solid Cover - Class C
- DGC Ductile Iron Slotted Grate - Class C *
- DGE Ductile Iron Slotted Grate - Class E
- DGF Ductile Iron Slotted Grate - Class F
- GDC Galvanized Ductile Slotted Grate - Class C
- GDE Galvanized Ductile Slotted Grate - Class E
- GDF Galvanized Ductile Slotted Grate - Class F
- GG Fiberglass Grate - Class A
- GHPDE Galvanized Heel-Proof Ductile Slotted Grate - Class E
- HPD Heel-Proof Ductile Slotted Grate - Class C
- HPDE Heel-Proof Ductile Slotted Grate - Class E
- RFGC Reinforced Slotted Galvanized Grate - Class C

MADE in the U.S.A.

- ADA-USA Meets Americans with Disabilities Act Requirements - Class C
- BG Galvanized Steel Bar Grate - Class D
- DGC-USA Ductile Iron Slotted Grate - Class C
- DGE-USA Ductile Iron Slotted Grate - Class E
- FG Fabricated Galvanized Steel Slotted Grate - Class A
- FS Fabricated Stainless Steel Slotted Grate - Class A
- GADA-USA Galvanized Ductile ADA Slotted Grate - Class C
- GDC-USA Galvanized Ductile Slotted Grate - Class C
- GDE-USA Galvanized Ductile Slotted Grate - Class E
- GHPDE-USA Galvanized Ductile Slotted Grate - Class E
- HPDE-USA Heel-Proof Ductile Slotted Grate - Class E
- PG Perforated Galvanized Steel Grate - Class A

*REGULARLY FURNISHED UNLESS OTHERWISE SPECIFIED

Trench No.	'A' Shallow Inv.	'B' Deep Inv.	Flow		
			(cfs)	(gpm)	(lps)
2001	6.25 [159]	7.50 [191]	1.299	583	37
2002	7.50 [191]	8.75 [222]	1.910	857	54
2002N	8.75 [222]	8.75 [222]	-	-	-
2003	8.75 [222]	10.00 [254]	2.548	1144	72
2004	10.00 [254]	11.25 [286]	3.205	1438	91
2004N	11.25 [286]	11.25 [286]	-	-	-
2005	11.25 [286]	12.50 [318]	3.874	1739	110
2006	12.50 [318]	13.75 [349]	4.552	2043	129
2007	13.75 [349]	15.00 [381]	5.236	2350	148
2008	15.00 [381]	16.25 [413]	5.925	2659	168
2008N	16.25 [413]	16.25 [413]	-	-	-
2009	16.25 [413]	17.50 [445]	6.619	2970	187
2010	17.50 [445]	18.75 [476]	7.315	3283	207

- RPGC Reinforced Perforated Galvanized Grate - Class C
- RPGRC Reinforced Perforated Galvanized Reverse Punch Grate - Class C
- RFSC Reinforced Slotted Stainless Steel Grate - Class C
- RPSC Reinforced Perforated Stainless Steel Grate - Class C
- RPSRC Reinforced Perforated Stainless Steel Reverse Punch Grate - Class C

Miscellaneous Options

- JC Joint Connector
- RC Rebar Clip (Set of 2)
- VP Vandal-Proof Lockdown

MADE in the U.S.A.

- PS Perforated Stainless Steel Grate - Class A
- RFG Reinforced Galvanized Slotted Grate - Class B
- RFS Reinforced Stainless Steel Slotted Grate - Class B
- RPG Reinforced Galvanized Perforated Grate - Class B
- RPS Reinforced Stainless Steel Perforated Grate - Class B
- SBG-L Stainless Steel Bar Grate - Class C

Miscellaneous Options

- DB Bottom Dome Strainer

REV. Y DATE: 05/21/12 C.N. NO. 124404

PROD/DWG. NO. Z812

ZURN INDUSTRIES, LLC ♦ SPECIFICATION DRAINAGE OPERATION ♦ 1801 Pittsburgh Ave. ♦ Erie, PA 16514

Phone: 814/455-0921 ♦ Fax: 814/454-7929 ♦ World Wide Web: www.zurn.com

In Canada: ZURN INDUSTRIES LIMITED ♦ 3544 Nashua Drive ♦ Mississauga, Ontario L4V1L2 ♦ Phone: 905/405-8272 Fax: 905/405-1292

LS



P12-DGE

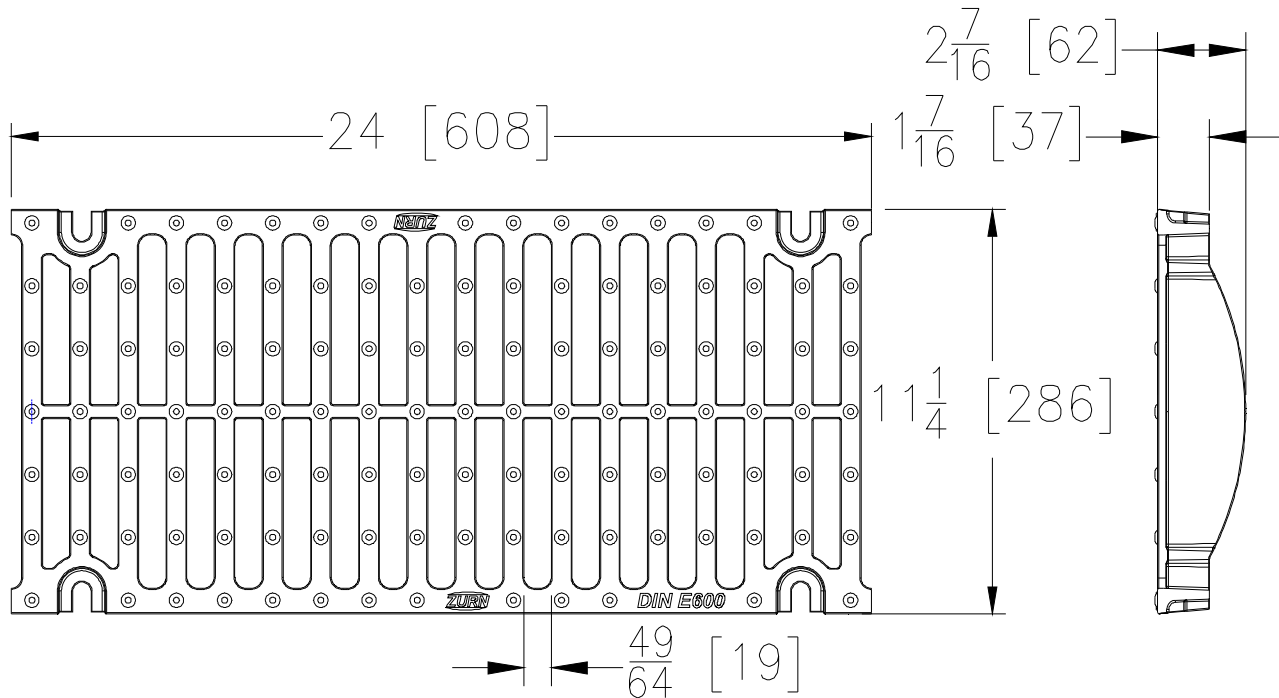
12 [305] Wide Grate

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice

[Back to Index](#)

Please Check ✓	Item No.	Part Number	Item I.D.
	10	82038	P12-DGE

Supersedes
63958



DGE GRATE ENGINEERING SPECIFICATION: The Zurn P12-DGE

Slotted Grate, Ductile Iron, is 11-1/4 inches wide by 24 inches long, weighing 19.8 lbs per linear foot. The grate has an open area of 60.3 square inches per linear foot, DIN Rating of E, ANSI Rating of Special-Duty, H-20 Load Rated, FAA Load Rated.

DGE - Ductile Iron Slotted	
Material:	Ductile Iron
DIN Rating:	Class E
Weight:	19.8 lbs/ft.
Open Area:	60.3 in ² /ft.
ANSI Rating:	Special-Duty
Application:	Hard Wheel & Truck
Slot Width/Hole Size:	49/64"
ADA:	No
H-20:	Yes
FAA:	Yes

SECTION 133419 – METAL BUILDING SYSTEMS

2.2 STANDING SEAM METAL ROOF SYSTEM

- A. Metal Roof System: Butler Manufacturing “MR-24[®]” roof system, or equivalent.
- B. Roof System Design:
 - 1. Design roof panels in accordance with AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
 - 2. Design roof paneling system for a minimum roof slope of 1/4 inch in 12 inches.
 - 3. Design roof paneling system to support design live, snow, and wind loads.
 - 4. Endwall Trim and Roof Transition Flashings: Allow roof panels to move relative to wall panels and/or parapets as roof expands and contracts with temperature changes.
- C. Roof System Performance Testing:
 - 1. UL Wind Uplift Classification Rating, UL 580: Class 90.
 - 2. Structural Performance Under Uniform Static Air Pressure Difference: Test roof system in accordance with ASTM E 1592.
 - 3. Roof system has been tested in accordance with U.S. Army Corps of Engineers Unified Facilities Guide Specification Section 07 61 13.
 - 4. FM Global (Factory Mutual):
 - a. Roof system has been tested in accordance with FMRC Standard 4471 and approved as a Class 1 Panel Roof.
 - b. Metal Building System Manufacturer: Provide specific assemblies to meet required wind rating in accordance with FM Global.
 - c. Installation modifications or substitutions can invalidate FM Global approval.
- D. Roof Panels:
 - 1. Factory roll-formed, 24 inches wide, with 2 major corrugations, 2 inches high (2-3/4 inches including seam), 24 inches on center.
 - 2. Flat of the Panel: Cross flutes 6 inches on center, perpendicular to major corrugations in entire length of panel to reduce wind noise.
 - 3. Variable Width Panels:
 - a. For roof lengths not evenly divisible by the 2'-0" panel width, factory-manufactured variable-width (9-inch, 12-inch, 15-inch, 18-inch, and 21-inch-wide) panels shall be used to ensure modular, weathertight roof installation.
 - b. Minimum Length: 15 feet.
 - c. Supply maximum possible panel lengths.
 - 4. Panel Material and Finish:
 - a. 24-gauge galvanized steel, G90 coating, ASTM A 653, G90.
 - b. Paint with exterior colors of “Butler-Cote[™]” finish system, full-strength, 70 percent “Kynar 500”.
 - c. All colors to be selected from Standard Color Palette.
 - d. Coating Warranty: Metal building system manufacturer shall warrant coating for 25 years.
 - 5. Use panels of maximum possible lengths to minimize end laps.

6. Extend eave panels beyond structural line of sidewalls.
 7. Factory punch panels at panel end to match factory-punched holes in eave structural member.
 8. Panel End Splices: Factory punched and factory notched.
 9. Panel End Laps: Locate directly over, but not fastened to, a supporting secondary roof structural member and be staggered, to avoid 4-panel lap-splice condition.
 10. End Laps: Floating. Allows roof panels to expand and contract with roof panel temperature changes.
 11. Self-Drilling Fasteners: Not permitted.
 12. Ridge Assembly:
 - a. Design ridge assembly to allow roof panels to move lengthwise with expansion and contraction as roof panel temperature changes.
 - b. Factory punch parts for correct field assembly.
 - c. Install panel closures and interior reinforcing straps to seal panel ends at ridge.
 - d. Do not expose attachment fasteners on weather side.
 - e. Use lock seam plug to seal lock seam portion of panel.
 - f. High-Tensile Steel Ridge Cover: Span from panel closure to panel closure and flex as roof system expands and contracts.
- E. Provision for Expansion and Contraction:
1. Provision for Thermal Expansion Movement of Roof Panels: Clips with movable tab.
 - a. Stainless Steel Tabs: Factory centered on roof clip when installed to ensure full movement in either direction.
 - b. Maximum Force of 8 Pounds: Required to initiate tab movement.
 - c. Each Clip: Accommodates a minimum of 1.25-inch movement in either direction.
 2. Roof: Provide for thermal expansion and contraction without detrimental effects on roof panels, with plus or minus 100-degree F temperature difference between interior structural framework of building and of roof panels.
- F. Fasteners:
1. Make connections of roof panels to structural members, except at eaves, with clips with movable stainless steel tabs, seamed into standing seam side lap.
 2. Fasten panel clips to structural members with "Scrubolt™" fasteners in accordance with erection drawings furnished by metal building system manufacturer, using factory-punched holes in structural members.
 - a. Fasteners: Metal-backed rubber washer to serve as torque indicator.
 3. Exposed fasteners penetrating metal roof membrane at the following locations do not exceed the frequency listed:
 - a. Basic Panel System: 0 per square foot.
 - b. High Eave Trim, No Parapet: 2 per linear foot.
 - c. Exterior Eave Gutter: 2 per linear foot.
 - d. Panel Splices: 2 per linear foot.
 - e. Gable Trim: 0 per linear foot.
 - f. High Eave with Parapet: 0 per linear foot.
 - g. Ridge: 0 per linear foot.
 - h. Low Eave Structural: 1.5 per linear foot.

G. Accessories:

1. Accessories (i.e., ventilators, skylights, gutters, fascia): Standard with metal building system manufacturer, unless otherwise noted and furnished as specified.
2. Exterior Metal Coating on Gutters, Downspouts, Gable Trim, and Eave Trim: "Butler-Cote™" finish system, full-strength, 70 percent "Kynar 500".
3. Location of Standard Accessories: Indicated on erection drawings furnished by metal building system manufacturer.
4. Material used in flashing and transition parts and furnished as standard by metal building system manufacturer may or may not match roof panel material.
 - a. Parts: Compatible and not cause corrosive condition.
 - b. Copper and Lead Materials: Do not use with Galvalume panels.

H. Energy Conservation:

1. Insulate purlins (optional) to eliminate "thermal short circuits" between purlins and roof panels.
2. Minimize heat loss (thermal short circuit) caused by compression of blanket insulation between structural members and roof panels by use of thermal block at each purlin location.

SECTION 283111 - DIGITAL, ADDRESSABLE FIRE-ALARM SYSTEM

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Provide for extension of existing fire alarm system into new renovation.
- B. Submittals: Product Data and system operating description.
- C. Submittals to Authorities Having Jurisdiction: In addition to distribution requirements for submittals, make an identical submittal to authorities having jurisdiction. To facilitate review, include copies of annotated Contract Drawings as needed to depict component locations.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Comply with NFPA 72.
- B. UL listed and labeled.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 SYSTEM DESCRIPTION

- A. Existing noncoded, addressable system, with multiplexed signal transmission, dedicated to fire-alarm service only.

2.3 FIRE-ALARM CONTROL UNIT (SIMPLEX OR EQUAL)

- A. General Requirements for Fire-Alarm Control Unit: Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864 and listed and labeled by an NRTL.
- B. Alphanumeric Display and System Controls: Arranged for interface between human operator at fire-alarm control unit and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and the programming and control menu.
- C. Initiating Device, Notification Appliance, and Signaling Line Circuits: NFPA 72, Class B.
 - 1. Initiating Device Circuits: Style A.
 - 2. Notification Appliance Circuits: Style X.

3. Signaling Line Circuits: Style 1.
 4. Install no more than 50 addressable devices on each signaling line circuit.
- D. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, signaling lines, and trouble signals shall be powered by 24-V dc source.
1. Alarm current draw of entire fire-alarm system shall not exceed 80 percent of the power-supply module rating.
- E. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch.
1. Batteries: Sealed lead calcium.
- F. Instructions: Computer printout or typewritten instruction card mounted behind a plastic or glass cover in a stainless-steel or aluminum frame. Include interpretation and describe appropriate response for displays and signals. Briefly describe the functional operation of the system under normal, alarm, and trouble conditions.

2.4 MANUAL FIRE-ALARM BOXES

- A. General Requirements for Manual Fire-Alarm Boxes: Comply with UL 38.
1. Single-action mechanism, breaking-glass or plastic-rod type. With integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.
 2. Double-action mechanism requiring two actions to initiate an alarm, breaking-glass or plastic-rod type; with integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to fire-alarm control unit.

2.5 SYSTEM SMOKE DETECTORS

- A. General Requirements for System Smoke Detectors: Comply with UL 268.
- B. Photoelectric Smoke Detectors: Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.

2.6 NOTIFICATION APPLIANCES

- A. General Requirements for Notification Appliances: Connected to notification appliance signal circuits, zoned as indicated, equipped for mounting as indicated and with screw terminals for system connections.
- B. Horns: Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet from the horn, using the coded signal prescribed in UL 464 test protocol.

- C. Visible Notification Appliances: Xenon strobe lights comply with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1-inch high letters on the lens.
 - 1. Rated Light Output:
 - a. Minimum 15, field determined based upon room dimensions

PART 3 - EXECUTION

3.1 EQUIPMENT INSTALLATION

- A. Comply with NFPA 72 for installation of fire-alarm equipment.
 - 1. Comply with requirements for seismic-restraint devices specified in Section 280500 "Common Work Results for Electronic Safety and Security."
- B. Connecting to Existing Equipment: Verify that existing fire-alarm system is operational before making changes or connections.
 - 1. Connect new equipment to existing control panel in existing part of the building.
 - 2. Connect new equipment to existing monitoring equipment at the supervising station.
 - 3. Expand, modify, and supplement existing control equipment as necessary to extend existing monitoring functions to the new points. New components shall be capable of merging with existing configuration without degrading the performance of either system.

3.2 FIELD QUALITY CONTROL

- A. Field tests shall be witnessed by authorities having jurisdiction.
- B. Tests and Inspections:
 - 1. Visual Inspection: Conduct visual inspection prior to testing.
 - a. Inspection shall be based on completed Record Drawings and system documentation that is required by NFPA 72 in its "Completion Documents, Preparation" Table in the "Documentation" Section of the "Fundamentals of Fire Alarm Systems" Chapter.
 - b. Comply with "Visual Inspection Frequencies" Table in the "Inspection" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72; retain the "Initial/Reacceptance" column and list only the installed components.
 - 2. System Testing: Comply with "Test Methods" Table in the "Testing" Section of the "Inspection, Testing and Maintenance" Chapter in NFPA 72.
- C. Prepare test and inspection reports.
- D. Maintenance Test and Inspection: Perform tests and inspections listed for weekly, monthly, quarterly, and semiannual periods. Use forms developed for initial tests and inspections.

- E. Annual Test and Inspection: One year after date of Substantial Completion, test fire-alarm system complying with visual and testing inspection requirements in NFPA 72. Use forms developed for initial tests and inspections.

END OF SECTION 283111

SECTION 262727 – TELEPHONE AND DATA

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Provide conduit, outlet box, cable, and devices for the telephone and data system.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. CAT 6 Cable.
- B. Panduit CFPE4EIIY faceplates, as required.
- C. Panduit CJ688TGOR data jacks, as required.
- D. Panduit CJ688TGOR voice jacks, as required.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Unless noted otherwise, all telephone and computer outlets shall be installed at the same height as duplex receptacles.
- B. Equipment backboards shall be installed just above the base and securely anchored to the wall with toggle bolts or other approved anchors.
- C. Minimum conduit size for the telephone and computer system shall be 3/4" with larger sizes noted on the drawings.
- D. Conduit for the telephone and computer outlets shall run from the outlet box and terminate above lay-in ceiling or above bottom cord of roof truss.
- E. The ends of all conduits shall have bushings to prevent damaging wire insulation.
- F. Provide J-hook hangers for all other wiring runs to remote data and voice outlets. Provide at maximum 5-ft. intervals.

END OF SECTION 262727

FINANCE
(30 ILCS 565/) Steel Products Procurement Act.

(30 ILCS 565/1) (from Ch. 48, par. 1801)

Sec. 1. This Act shall be known and may be cited as the "Steel Products Procurement Act".

(Source: P.A. 83-1030.)

(30 ILCS 565/2) (from Ch. 48, par. 1802)

Sec. 2. It is hereby found and declared by the Illinois General Assembly that

(1) The production of steel products provides the jobs and family incomes of hundreds of thousands of people in this State and, in turn, the jobs and family incomes of millions of persons in the United States;

(2) The taxes paid to the State and its political subdivisions by employers and employees engaged in the production and sale of steel products are a large source of public revenues in the State;

(3) The economy and general welfare of this State and its people, as well as the economy and general welfare of the United States, are inseparably related to the preservation and development of industry in this State, as well as all the other states of this nation.

The General Assembly therefore declares it to be the policy of the State of Illinois that all public officers and agencies should aid and promote the economy of the State and the United States by specifying steel products produced in the United States in all contracts for construction, reconstruction, repair, improvement or maintenance of public works.

(Source: P.A. 83-1030.)

(30 ILCS 565/3) (from Ch. 48, par. 1803)

Sec. 3. For the purposes of this Act, the following words have the meanings ascribed to them in this Section unless the context clearly requires otherwise.

(a) "Public agency" means the State of Illinois, its departments, agencies, boards, commissions and institutions, and all units of local government, including school districts.

(b) "United States" means the United States and any place subject to the jurisdiction thereof.

(c) "Steel products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated, or otherwise similarly processed, or processed by a combination of two or more such operations, from steel made in the United States by the open hearth, basic oxygen, electric furnace, Bessemer or other steel making process.

(Source: P.A. 83-1030.)

(30 ILCS 565/4) (from Ch. 48, par. 1804)

Sec. 4. Each contract for the construction, reconstruction, alteration, repair, improvement or maintenance of public works made by a public agency shall contain a provision that steel products used or supplied in the performance of that contract or any subcontract thereto shall be manufactured or produced in the United States.

The provisions of this Section shall not apply:

(1) Where the contract involves an expenditure of less than \$500.

(2) Where the executive head of the public agency certifies in writing that (a) the specified products are not manufactured or produced in the United States in sufficient quantities to meet the agency's requirements or cannot be manufactured or produced in the United States within the necessary time in sufficient quantities to meet the agency's requirements, or (b) obtaining the specified products, manufactured or produced in the United States would increase the cost of the contract by more than 10%.

(3) When its application is not in the public interest.

(Source: P.A. 83-1030.)

(30 ILCS 565/5) (from Ch. 48, par. 1805)

Sec. 5. No public agency may authorize, provide for or make any payment to any vendor or contractor upon any contract in violation of Section 4. It shall be a business offense for any vendor or contractor to knowingly enter into any contract in violation of Section 4 or to knowingly violate contract provisions required by Section 4. Each such violation shall subject the violator to a fine of the greater of \$5,000 or the payment price received by him as a result of such violation. The Attorney General is authorized to file and prosecute a complaint in the circuit court of any county in which the contract was in whole or in part executed or performed.

(Source: P.A. 83-1030.)

(30 ILCS 565/6) (from Ch. 48, par. 1806)

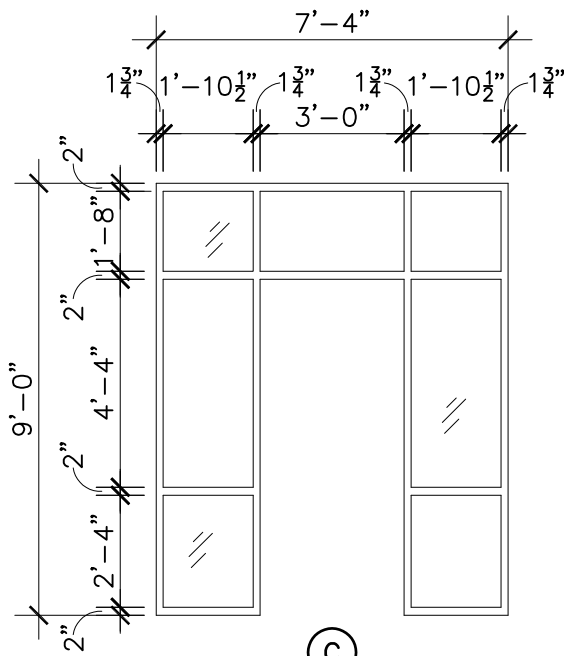
Sec. 6. This Act shall apply only to contracts and subcontracts entered into after the effective date of this Act, and shall not limit the use or supply of steel products purchased or leased prior to the effective date of this Act.

(Source: P.A. 83-1030.)

(30 ILCS 565/7) (from Ch. 48, par. 1807)

Sec. 7. Nothing in this Act is intended to contravene any existing treaty, law, agreement or regulation of the United States. Contracts entered into in accordance with an existing treaty, law, agreement or regulation of the United States shall not be in violation of this Act to the extent of such accordance.

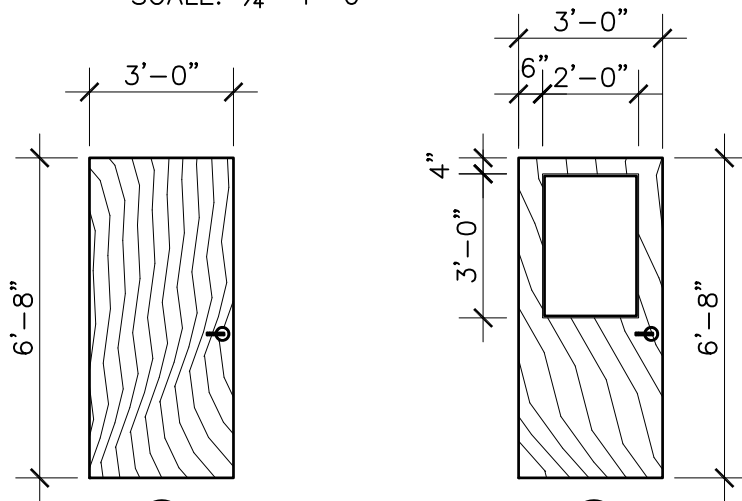
(Source: P.A. 83-1030.)



ALUM. ENTRY SYSTEM
CLEAR ANODIZED

FRAME ELEVATION

SCALE: 1/4" = 1'-0"



2

FLUSH WOOD
SOLID-CORE
PLAIN SLICED ROTARY BIRCH
MARSHFIELD-ENVIROCLAD UV
FINISH HONEY

3

FLUSH WOOD
SOLID-CORE
PLAIN SLICED ROTARY BIRCH
MARSHFIELD-ENVIROCLAD UV
FINISH HONEY

DOOR ELEVATIONS

SCALE: 1/4" = 1'-0"

REFERENCE DRAWING NO. A5.2

ADDENDUM 2 - DRAWING NO. 1

myszak + palmer
ARCHITECTURE • DEVELOPMENT

903 Broadway Street
Vincennes, Indiana 47591
Voice: 812.886.0350
Fax: 812.886.0790
web: www.myszakpalmer.com

NEW FACILITY:

HUTSONVILLE FIRE STATION

HUTSONVILLE, IL

DATE: 3/18/14

DRAWN: STAFF

CHECKED: JDP

PROJECT ID: 13-39



THREE i DESIGN
ENGINEERING + ARCHITECTURE
WWW.THREEDIEN.COM EVANSVILLE, IN 812-422-6800

TRENCH DRAIN w/ HEAVY-DUTY
GRATE (SEE PLUMBING)

L2x2x1/4xCONT. AROUND
TRENCH w/ 1/2"φx3"
HEADED STUDS @ 18" O.C.

6" THICK CONCRETE SLAB
ON GRADE (SEE S3 FOR
ADDITIONAL INFORMATION)

FINISH FLOOR EL. AT
DRAIN = 99'-6 1/2"

#5@12" O.C. EA. WAY ON TOP
WWF WITHIN 3'-0" OF TRENCH

(SEE PLUMBING)

2'-6" MIN.

#5x 2'-0" @12" O.C.

#5@12" O.C. EA. WAY (TYP.)
(CENTER VERTICAL IN WALL)

LAP DOWELS FULL
WIDTH OF TRENCH

CL.
3"

1'-10 3/4" CLR. 6"

2'-10 3/4"

9 FOUNDATION SECTION

S2 SCALE: 3/4" = 1'-0"

REFERENCE DRAWING NO. S2

ADDENDUM 2 - DRAWING NO. 2

myszak + palmer
ARCHITECTURE • DEVELOPMENT

903 Broadway Street
Vincennes, Indiana 47591
Voice: 812.886.0350
Fax: 812.886.0790
web: www.myszakpalmer.com

NEW FACILITY:

HUTSONVILLE FIRE STATION

HUTSONVILLE, IL

DATE: 3/18/14

DRAWN: JMA

CHECKED: JMA

PROJECT ID: 13-39