



## **ADDENDUM NO. 2**

**DATE:** January 27, 2022  
**PROJECT:** EUPTA New Transportation Facility  
**OWNER:** The Eastern Upper Peninsula Transportation Authority  
**BID DATE:** Friday, February 18, 2022

The following shall be incorporated into the Contract Documents dated **23 AUGUST 2021.**

### **GENERAL**

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General information for bidders from Pre-Bid Meeting that occurred on January 26, 2022.

- Pre-Bid Meeting Agenda
- Pre-Bid Sign-In Sheet
- Request for Information Form
- Sanitary Sewer EGLE Permit
- Wetland EGLE Permit
- SR-001 Knotwood Substitution Request Approval

### **SPECIFICATIONS**

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None Issued.

### **DRAWINGS**

#### **E-601 ELECTRICAL SCHEDULES**

Updated MCB rating to say NONE.

**End of Addendum No. 2**



## Pre-Bid Meeting Agenda EUPTA Transportation Facility

Architect will conduct a Prebid meeting as indicated below:

1. Meeting Date: **January 26, 2022**
2. Meeting Time: **1:30 PM**
3. Location: EUPTA Transportation Facility  
4001 I 75 Business Spur, Sault S Marie, MI 49783  
And Zoom Meeting: 935 4393 0464, 155933

### 1. Introductions:

- a. Owner – Eastern UP Transportation Authority
- b. Architect – OHM Advisors
- c. Structural Engineer – OHM Advisors
- d. Mechanical/Electrical Engineer – OHM Advisors
- e. Civil/Landscape – OHM Advisors

### 2. Project Overview:

- a. Demolition of Existing Structure
  - 1) Hazardous Materials within building and included in Project Manual with Quantities
  - 2) See 00 31 26 - EXISTING HAZARDOUS MATERIAL INFORMATION
- b. Main Building
  - 1) New Building
    - a) Admin Office Portion
    - b) North & South Garages
    - c) Machine Shop & Maintenance Bay
    - d) Wash Bay
- c. Outbuilding
  - 1) Heated and Cold Storage
- d. Site Improvements
  - 1) Well
  - 2) EGLE Wetlands Permit
- e. Off Site Improvements
  - 1) Sanitary Sewer
  - 2) EGLE Sewer Permits

### 3. Procurement and Contracting Requirements:

- a. Advertisement for Bids.
- b. Instructions to Bidders.
- c. Bidder Qualifications.
- d. Bonds.
- e. Insurance.
- f. Bid Security.
- g. Prevailing Wage
  - 1) Included in Appendix of Project Manual (page 1333 is start)
- h. MDOT Forms
- i. Bid Form, Attachments and Selection Criteria
- j. Notice of Award.



4. Communication during Bidding Period:

- a. Obtaining documents.
- b. Access to Project Web site.
- c. **Bidder's Requests for Information.** Direct all questions to the OHM Project Manager, Kevin Koets, at [Kevin.Koets@ohm-advisors.com](mailto:Kevin.Koets@ohm-advisors.com). Questions and answers will be shared by addendum and publicly posted on EUPTA's website at [www.eupta.net](http://www.eupta.net).
- d. Bidder's Substitution Request/Prior Approval Request.
- e. Alternates
  - 1) SECTION 01 23 00 - ALTERNATES
- f. Allowances
  - 1) SECTION 01 21 00 - ALLOWANCES
  - 2) Voluntary Alternates are encouraged!
- g. Unit Prices
  - 1) SECTION 01 22 00 - UNIT PRICES
- h. Substitutions following award.
- i. Addenda.

5. Contracting Requirements:

- a. Agreement.
  - 1) 3rd Party Agreement per MDOT
- b. The General Conditions.
- c. Other Owner requirements.

6. Schedule:

- a. Project Schedule.

January 19, 2022	Documents on Quest
January 26, 2022	Pre-bid Meeting
January 19, 2022 to February 9, 2022	Respond to RFIs
February 9, 2022	Pre-Bid RFI Cut Off
February 18, 2022	Bids Due
May 26, 2023	Final Completion**

\*\*Contractors to provide overall schedule duration for construction with Bids.
- b. Other Bidder Questions

7. Post-Meeting Addendum.



www.ohm-advisors.com

Project: EUTPA Transportation Facility Pre-bid Meeting

Project No.: 77816-21-0010

Date: January 26, 2021, at 1:30 p.m.

Name	Representing	Phone (area)	E-Mail
Pete Paramski	EUPTA	906-632-2898	paramskip@eupta.net
Akemi Gordon	EUPTA	906-632-2898	agordon@eupta.net
Kevin Koets	OHM Advisors	248-506-6607	Kevin.koets@ohm-advisors.com
Amanda Porath	OHM Advisors	231-344-1153	Amanda.porath@ohm-advisors.com
Ben Hopper	J. Ranck Electric	906-630-4773	bhopper@jranck.com
Randy McGahey	McGahey Construction	906-440-6305	ashmuncreek@sbcglobal.net
Marc Jalques	Nomad Construction	906-440-0700	nomad@lighthouse.net
Chris Weber	Grand Traverse Construction	231-929-1000	cweber@grandtraverseconstruction.com
Alec LaPoint	A-Wall Masonry	906-297-8017	aleclapoint@yahoo.com
Casey Layer	Burton Excavating	906-632-2641	casey@burtonexcavating.com
Chuck Lindstrom	MDOT	906-201-1699	lindstromc@michigan.gov
Adam Case	RCL Construction Co. Inc.	517-256-7100	adam@rclconstruct.com
Jeff Roy	Roy Electric Company, Inc.	906-630-8878	royelectric@lighthouse.net
Steven Bonicatto	Gundlach Champion	906-779-2303	sbonicatto@gcfirst.com
Ricky LaHaie	E.F. Wilkinson & Sons	231-445-2815	richardl@efwilkinson.com



**REQUEST FOR INTERPRETATION (RFI)**

Project Name:  
OHM Project Number:  
Date:

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**RFI Number (Filled out by OHM)::**

**To:** \_\_\_\_\_ **From:** \_\_\_\_\_

**Re:** \_\_\_\_\_ **Contract For:** \_\_\_\_\_

Specification Section: Paragraph: Drawing Reference: Detail:

**Request:** \_\_\_\_\_

Signed by: \_\_\_\_\_ Date: \_\_\_\_\_

**Response:** \_\_\_\_\_

**Attachments**

Response From: \_\_\_\_\_ To: \_\_\_\_\_  
Date Received: \_\_\_\_\_ Date Returned: \_\_\_\_\_  
Signed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Copies:  Owner  Consultants  \_\_\_\_\_  \_\_\_\_\_  File



## NOTICE OF AUTHORIZATION

**Permit Number: WRP030081 v. 1**

**Date Issued: August 3, 2021**

**Site Name: 17 - Eastern UP Transportation Authority Facility - wetlands**

**Expiration Date: August 3, 2026**

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, P.O. Box 30458, Lansing, Michigan 48909-7958, under provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, specifically:

- Part 31, Floodplain Regulatory Authority of the Water Resources Protection.
- Part 301, Inland Lakes and Streams.
- Part 303, Wetlands Protection.
- Part 315, Dam Safety.
- Part 323, Shorelands Protection and Management.
- Part 325, Great Lakes Submerged Lands.
- Part 353, Sand Dunes Protection and Management.

**Authorized activity:**

**Construct a new EUPTA transportation facility that will include a public bus terminal, office space, vehicle storage garages, vehicle maintenance bays, and a vehicle wash bay. Place a total of 141 cubic yards of fill in 0.08 acres of wetland for a portion of the access driveway surrounding the facility.**

**All work shall be performed according to the attached plans and permit conditions.**

To be conducted at property located in: Chippewa County, Waterbody: wetland  
Section 24, Town 47N, Range 01W, Soo Township

Permittee:  
Eastern UP Transportation Authority  
4001 I 75 Business Spur  
Sault Ste. Marie, Michigan 49783

Issued By:

John Gustafson  
Marquette District Office  
Water Resources Division  
906-203-9887

*This notice must be displayed at the site of work.  
Laminating this notice or utilizing sheet protectors is recommended.*  
Please refer to the above permit number with any questions or concerns.

**EGLE-WRD**  
**WRP030081 v1.0**  
**Approved**  
**Issued On:08/03/2021**  
**Expires On:08/03/2026**



**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY  
WATER RESOURCES DIVISION PERMIT**

**Issued To:**

**Eastern UP Transportation Authority (EUPTA)  
4001 I-75 Business Spur  
Sault Ste. Marie, Michigan 49783**

Permit No: WRP030081 v.1  
Submission No.: HP9-P83B-P6AVA  
Site Name: 17 - Eastern UP Transportation Authority Facility - wetlands  
Issued: August 3, 2021  
Revised:  
Expires: August 3, 2026

This permit is being issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, under the provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA); specifically:

- |  |   |
|--|---|
| <input type="checkbox"/> Part 301, Inland Lakes and Streams                                    | <input type="checkbox"/> Part 323, Shorelands Protection and Management |
| <input checked="" type="checkbox"/> Part 303, Wetlands Protection                              | <input type="checkbox"/> Part 325, Great Lakes Submerged Lands          |
| <input type="checkbox"/> Part 315, Dam Safety  | <input type="checkbox"/> Part 353, Sand Dunes Protection and Management |
| <input type="checkbox"/> Part 31, Water Resources Protection (Floodplain Regulatory Authority) |   |

Permission is hereby granted, based on permittee assurance of adherence to State of Michigan requirements and permit conditions, to:

**Authorized Activity:**

**Construct a new EUPTA transportation facility that will include a public bus terminal, office space, vehicle storage garages, vehicle maintenance bays, and a vehicle wash bay. Place a total of 141 cubic yards of fill in 0.08 acres of wetland for a portion of the access driveway surrounding the facility.**

**All work shall be performed according to the attached plans and permit conditions.**

Waterbody Affected: wetland  
Property Location: Chippewa County, Soo Township, Town/Range/Section 47N01W24

**Authority granted by this permit is subject to the following limitations:**

- Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
- The permittee, in exercising the authority granted by this permit, shall not cause unlawful pollution as defined by Part 31 of the NREPA.
- This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.

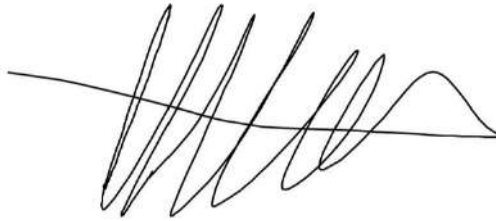
**EGLE-WRD  
WRP030081 v1.0  
Approved  
Issued On:08/03/2021  
Expires On:08/03/2026**

- D. All work shall be completed in accordance with the approved plans and specifications submitted with the application and/or plans and specifications attached to this permit.
- E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved.
- F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with 2013 PA 174 (Act 174) and comply with each of the requirements of Act 174.
- G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits, or complying with other state statutes.
- H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
- I. Permittee shall notify EGLE within one week after the completion of the activity authorized by this permit.
- J. This permit shall not be assigned or transferred without the written approval of EGLE.
- K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific state act, federal act, and/or rule under which this permit is granted.
- L. All dredged or excavated materials shall be disposed of in an upland site (outside of floodplains, unless exempt under Part 31 of the NREPA, and wetlands).
- M. In issuing this permit, EGLE has relied on the information and data that the permittee has provided in connection with the submitted application for permit. If, subsequent to the issuance of a permit, such information and data prove to be false, incomplete, or inaccurate, EGLE may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.
- N. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents, and representatives for any and all claims or causes of action arising from acts or omissions of the permittee, or employees, agents, or representative of the permittee, undertaken in connection with this permit. The permittee's obligation to indemnify the State of Michigan applies only if the state: (1) provides the permittee or its designated representative written notice of the claim or cause of action within 30 days after it is received by the state, and (2) consents to the permittee's participation in the proceeding on the claim or cause of action. It does not apply to contested case proceedings under the Administrative Procedures Act, 1969 PA 306, as amended, challenging the permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.
- O. Noncompliance with these terms and conditions and/or the initiation of other regulated activities not specifically authorized shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, EGLE may initiate criminal and/or civil proceedings as may be deemed necessary to correct project deficiencies, protect natural resource values, and secure compliance with statutes.
- P. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity from EGLE. Such revision request shall include complete documentation supporting the modification and revised plans detailing the proposed modification. Proposed modifications must be approved, in writing, by EGLE prior to being implemented.
- Q. This permit may be transferred to another person upon written approval of EGLE. The permittee must submit a written request to EGLE to transfer the permit to the new owner. The new owner must also submit a written request to EGLE to accept transfer. The new owner must agree, in writing, to accept all conditions of the permit. A single letter signed by both parties that includes all the above information may be provided to EGLE. EGLE will review the request and, if approved, will provide written notification to the new owner.
- R. Prior to initiating permitted construction, the permittee is required to provide a copy of the permit to the contractor(s) for review. The property owner, contractor(s), and any agent involved in exercising the permit are held responsible to ensure that the project is constructed in accordance with all drawings and specifications. The contractor is required to provide a copy of the permit to all subcontractors doing work authorized by the permit.
- S. Construction must be undertaken and completed during the dry period of the wetland. If the area does not dry out, construction shall be done on equipment mats to prevent compaction of the soil.



- T. Authority granted by this permit does not waive permit requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent (CEA).
- U. Authority granted by this permit does not waive permit requirements under the authority of Part 305, Natural Rivers, of the NREPA. A Natural Rivers Zoning Permit may be required for construction, land alteration, streambank stabilization, or vegetation removal along or near a natural river.
- V. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.
- W. Unless specifically stated in this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the water body are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
- X. For projects with potential impacts to fish spawning or migration, no work shall occur within fish spawning or migration timelines (i.e., windows) unless otherwise approved in writing by the Michigan Department of Natural Resources, Fisheries Division.
- Y. Work to be done under authority of this permit is further subject to the following special instructions and specifications:
1. Authority granted by this permit does not waive permit or program requirements under Part 91 of the NREPA or the need to acquire applicable permits from the CEA. To locate the Soil Erosion Program Administrator for your county, visit [www.mi.gov/eglestormwater](http://www.mi.gov/eglestormwater) and select "Soil Erosion and Sedimentation Control Program" under "Related Links."
  2. The authority to conduct the activity as authorized by this permit is granted solely under the provisions of the governing act as identified above. This permit does not convey, provide, or otherwise imply approval of any other governing act, ordinance, or regulation, nor does it waive the permittee's obligation to acquire any local, county, state, or federal approval or authorization necessary to conduct the activity.
  3. No fill, excess soil, or other material shall be placed in any wetland, floodplain, or surface water area not specifically authorized by this permit, its plans, and specifications.
  4. This permit does not authorize or sanction work that has been completed in violation of applicable federal, state, or local statutes.
  5. The permit placard shall be kept posted at the work site in a prominent location at all times for the duration of the project or until permit expiration.
  6. This permit is being issued for the maximum time allowed and no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by EGLE, will be for a five-year period beginning on the date of issuance. If the project is not completed by the expiration date, a new permit must be sought.
  7. All fill/backfill shall consist of clean inert material that will not cause siltation nor contain soluble chemicals, organic matter, pollutants, or contaminants. All fill shall be contained in such a manner so as not to erode into any surface water, floodplain, or wetland. All raw areas associated with the permitted activity shall be stabilized with sod and/or seed and mulch, riprap, or other technically effective methods as necessary to prevent erosion.

8. All dredge/excavated spoils including organic and inorganic soils, vegetation, and other material removed shall be placed on upland (non-wetland, non-floodplain or non-bottomland), prepared for stabilization, and stabilized with sod and/or seed and mulch in such a manner so as to prevent and ensure against erosion of any material into any waterbody, wetland, or floodplain.
9. Unless specifically stated under the "Permitted Activity" of this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the waterbody are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
10. This permit is limited to authorizing the construction as specified above and carries with it no assurances or implications that associated lake, stream, wetland or floodplain areas can be developed and serviced by the structures authorized by this permit.
11. Prior to the start of construction, all adjacent non-work wetland areas shall be protected by properly trenched sedimentation barrier to prevent sediment from entering the wetland. Orange construction fencing may be installed as needed to prohibit construction personnel from entering or performing work in these areas. Sedimentation barrier shall be maintained daily throughout the construction process. Upon project completion, the accumulated materials shall be removed and disposed of at an upland site. The sedimentation barrier shall then be removed in its entirety and the area restored to its original configuration and cover.



Issued By:

John Gustafson  
Marquette District Office  
Water Resources Division  
906-203-9887

cc: Soo Township Clerk  
Chippewa County CEA  
OHM Advisors



# EUPTA Project Location Map



Google Earth

© 2021 Google

Project Location

3000 ft

EGLE  
WRP0301-1-10  
Approved  
Issued On: 08/03/2021  
Expires On: 08/03/2026















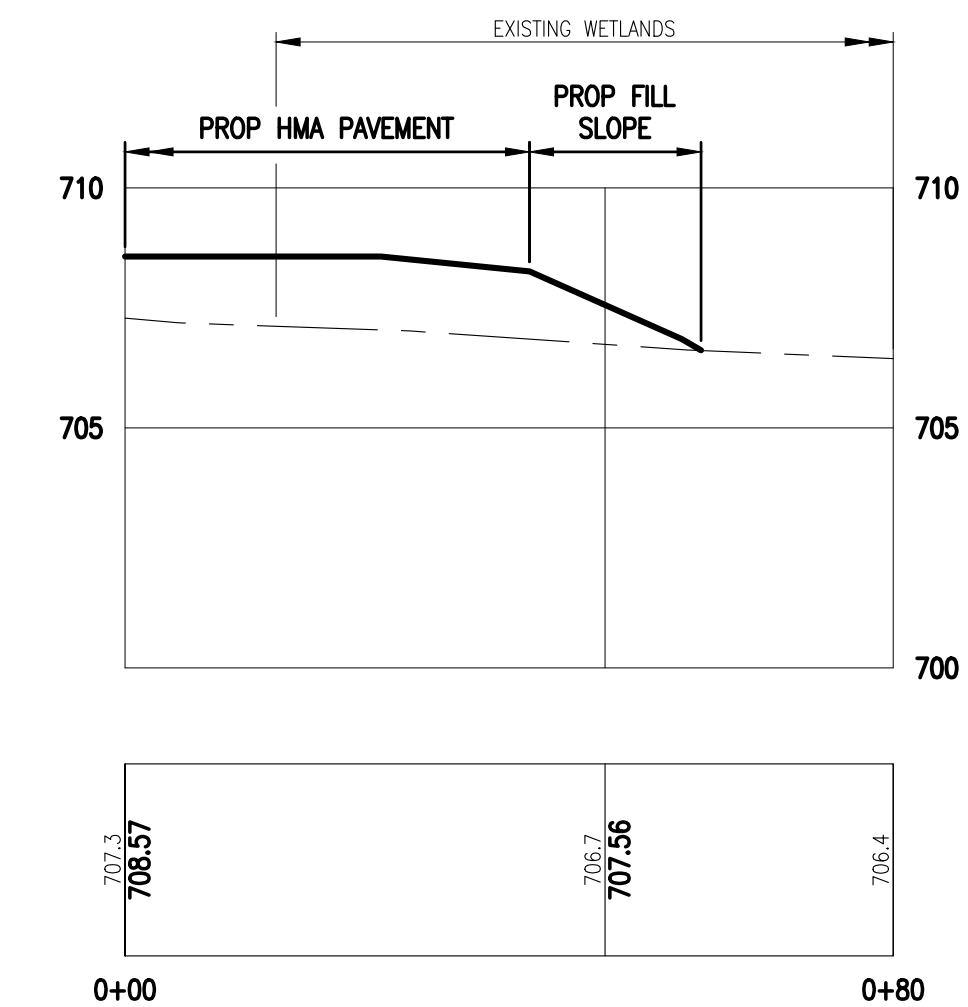
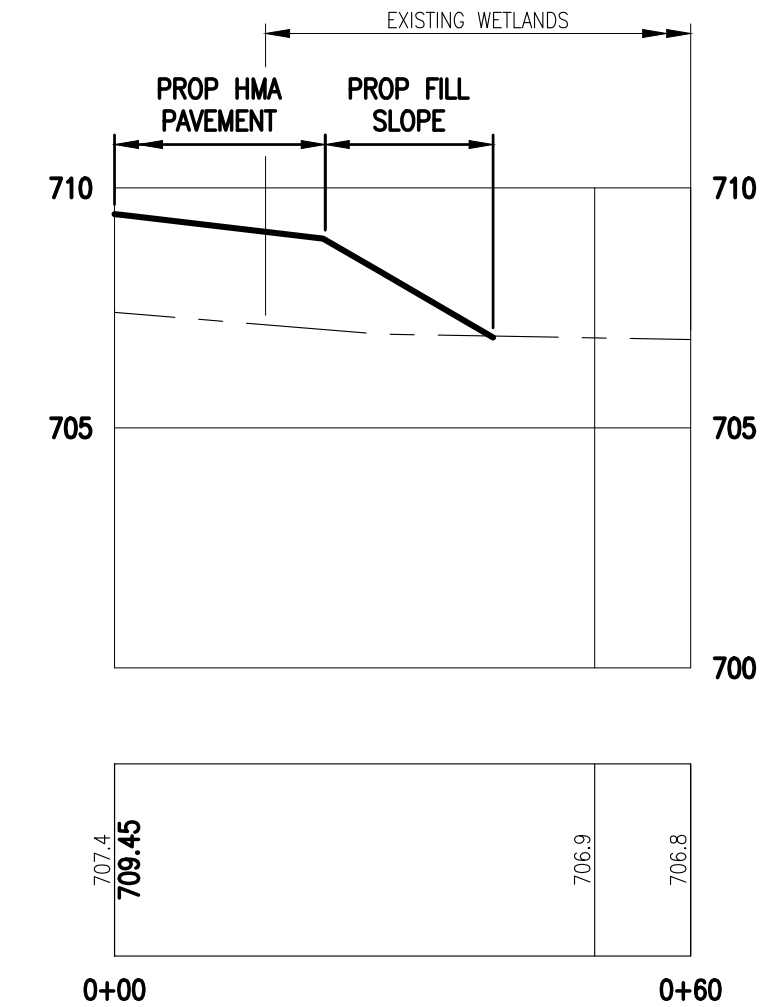
**PRELIMINARY - NOT FOR CONSTRUCTION**

REVISIONS:  
 No. 3  
 DESCRIPTION: 95% DD REVIEW

DATE: 06/08/2021  
 PROJECT: EASTERN UPPER PENINSULA TRANSPORTATION AUTHORITY  
 COUNTY: CHARLEVOIX  
 MUNICIPALITY: EAST TOWNSHIP  
 SHEET: C-103  
 DRAWING TITLE: NEW TRANSPORTATION FACILITY  
 SITE GRADING & DRAINAGE PLAN



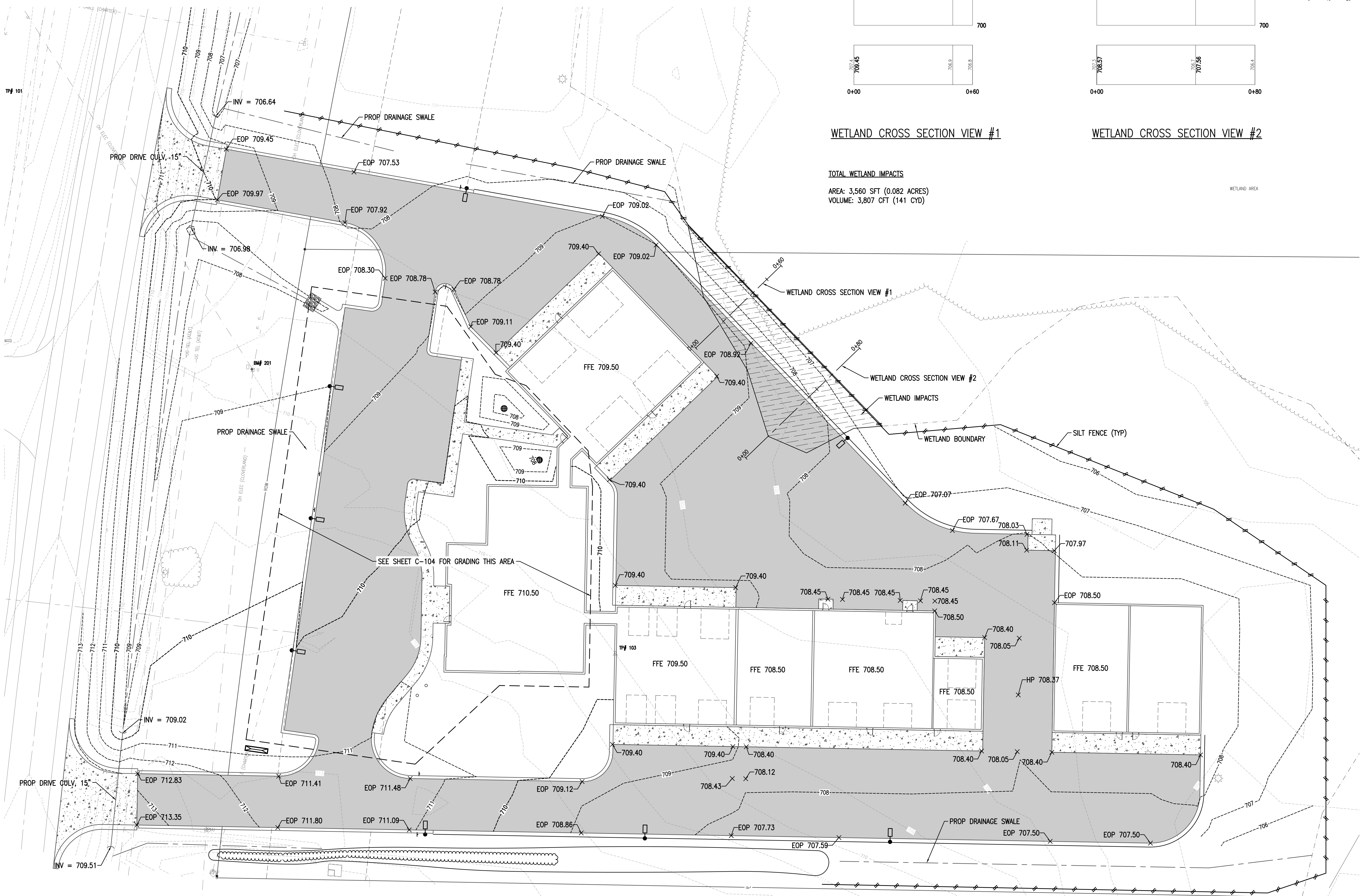
GRAPHIC SCALE: 1 inch = 20 feet  
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WETLAND CROSS SECTION VIEW #1

WETLAND CROSS SECTION VIEW #2

TOTAL WETLAND IMPACTS  
 AREA: 3,560 SFT (0.082 ACRES)  
 VOLUME: 3,807 CFT (141 CYD)



DRAWING PATH: P:\2020-2021\20210610\010-ERFTA-New\_Facility\Drawings\SitePlan\_Consult\103GRADE.dwg, Jun 23, 2021, 1:25pm

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**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY**  
**WATER RESOURCES DIVISION**  
**PERMIT FOR CONSTRUCTION OF WASTEWATER SYSTEMS**

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<b>SITE NAME:</b>	Sault Ste Marie CM
<b>PERMITEE CONTACT NAME:</b>	Dave Boyle, PE
<b>PERMITEE CONTACT PHONE NUMBER:</b>	(906) 632-5733
<b>PERMITEE CONTACT EMAIL:</b>	dboyle@saultcity.com
<b>SITE COUNTY:</b>	Chippewa


<b>PERMIT NUMBER:</b>	P41003310 v. 1
<b>PERMIT ISSUED DATE:</b>	July 28, 2021
<b>ISSUED TO:</b>	City of Sault Ste Marie
<b>PROJECT NAME:</b>	EUPTA New Transportation Facility
<b>PROJECT LOCATION:</b>	S. Mackinac Trail

**APPLICATION SUBMISSION NUMBER:** HP7-3Z4W-VAMEV

**REQUIRED NOTIFICATIONS:** The permittee shall provide Startup Notification (just prior to excavation) and Completion Notification (upon completion of the project) per the permit schedules in MiWaters.

**ISSUED UNDER THE AUTHORITY OF THE DIRECTOR  
OF THE DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE)**

**Issued By:**


Scott Richards, PE Environmental Engineer

**Reviewed By:**

[SAME]
[SAME]

cc: Chippewa County Health Department via email: [contact@chippewahd.com](mailto:contact@chippewahd.com)  
Chris Powell, PE – OHM Advisors via email: [chris.powell@ohm-advisors.com](mailto:chris.powell@ohm-advisors.com)



## GENERAL PERMIT CONDITIONS

- a. This **PERMIT** only authorizes the construction, alteration, addition, or improvement of the wastewater system as described herein and is issued solely under the authority of Part 41 of Act 451.
- b. Issuance of this **PERMIT** does not authorize any violation of federal, state, or local laws or regulations, nor does it obviate the need to obtain other permits or approvals from EGLE or other units of government as may be required by law.
- c. This **PERMIT** expires two (2) years after the above date of issuance unless construction starts prior to the expiration date in accordance with R 299.2939(2) of the Part 41 Administrative Rules.
- d. Any portion of the herein described facilities constructed prior to the date of issuance is not authorized by this **PERMIT** and is a violation of Act 451.
- e. No sewer shall be placed into service unless and until the outlet sewer has been constructed, tested, and placed into service.
- f. Failure to meet any condition of this **PERMIT** or any requirement of Act 451 constitutes a violation of Act 451.
- g. The applicant must provide notice of impending construction to public utilities and comply with the requirements of the Underground Facility Damage Prevention and Safety Act, PA 174 of 2013, as amended (MISS DIG).
- h. All earth changing activities must be conducted in accordance with Part 91, Soil Erosion and Sedimentation Control, of Act 451.
- i. All construction activity, including groundwater dewatering, impacting wetlands shall be conducted in accordance with Part 303, Wetlands Protection, of Act 451.
- j. If water withdrawal, via dewatering activities, is associated with this project, authorization under Part 327 is required for new or increased large quantity withdrawals over 100,000 gallons per day. A Part 327 permit is required for new or increased large quantity withdrawals over 2,000,000 gallons per day.

## SPECIAL PERMIT CONDITIONS

1. There shall be no visible turbidity in the storm water runoff or water from site dewatering operations that is discharged to the surface waters of the State due to construction activity associated with this project.
2. A construction permit for the activities regulated under the provision of the Soil Erosion and Sedimentation Control Act shall be obtained and all control measures shall be installed prior to starting any construction work authorized under this permit.
3. Sanitary sewer pipe shall comply with and be installed in accordance with current ASTM designation.
4. Minimum isolation distance of 10' horizontal and 18" vertical between sewer and water mains.
5. Trench: Provide min. 4" clearance around pipe in rock, boulders and large stones.
6. Unless unfeasible due to maintaining sanitary service, all pipe shall be tested for leakage, infiltration/exfiltration not to exceed 100 gallons per inch of pipe diameter per mile per day.
7. If contaminated soils are encountered, please contact the EGLE RRD UP District Supervisor.

8. This permit only authorizes construction of the sanitary facilities listed herein. This permit does not authorize work in regulated wetland/stream areas. Proper permits must first be obtained from this Department before any work in regulated wetland/stream areas commence.
9. Upload as-built record documents in electronic (.pdf) format per the schedule established in MiWaters.

### **FACILITIES DESCRIPTION**

563' of 15" gravity sewer in Chippewa County Road Commission ROW along S Mackinac Trail from approximately 420' south of S Mackinac Trail and W 3 Mile Rd intersection, south for 563'.



# SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: \_\_\_\_\_ Substitution Request Number: **SR-001**

From: \_\_\_\_\_

To: \_\_\_\_\_ Date: \_\_\_\_\_

A/E Project Number: \_\_\_\_\_

Re: \_\_\_\_\_ Contract For: \_\_\_\_\_

Specification Title: \_\_\_\_\_ Description: \_\_\_\_\_

Section: \_\_\_\_\_ Page: \_\_\_\_\_ Article/Paragraph: \_\_\_\_\_

Proposed Substitution: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Trade Name: \_\_\_\_\_ Model No.: \_\_\_\_\_

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: \_\_\_\_\_

Signed by: *Jeff Jablonski*

Firm: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

### A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: **Kevin Koets** Date: **2022-01-27**

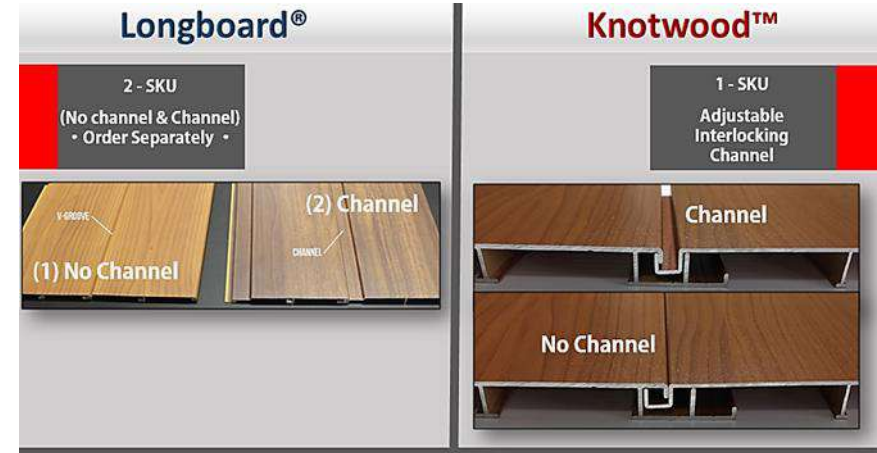
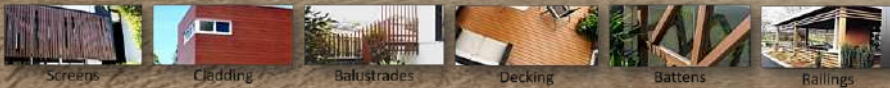
Supporting Data Attached:  Drawings  Product Data  Samples  Tests  Reports  \_\_\_\_\_

## PRODUCT COMPARISON

	LONGBOARD® (Aluminum)	KNOTWOOD™ (Aluminum)
Material	Marine Grade Aluminum Alloy	Marine Grade Aluminum Alloy
Colors	18 Exterior Wood Grain 14 Solid Colors	32 Advertised Wood Grain 60 Advertised Solid Colors
Installation	Bottom Up Install • Tongue and Groove Cladding •	Top Down OR Bottom Up Install • Interlocking Cladding •
Labor	Minimum 2 laborers – (not interlocking nor self supporting) • Bottom Up install •	Minimum 1 laborer (interlocking and self supporting) • Top Down install •
Repair / Replacement	Top down removal to reach damage. Typically requires reinstalling more cladding.	Bottom up removal to reach damage. Replace only damaged cladding.
Trims	Cladding – limited trim options	Cladding – multiple trim options
Dimensions	12' and 24' length	Standard 18' 6" length
Warranty	• Aluminum Material – 50 yrs • Woodgrain Finish – 15 yrs ( <u>excludes</u> close proximity to salt water)	• Aluminum Material – Limited Lifetime • Woodgrain Finish – 15 yrs ( <u>includes</u> close proximity to salt water)

### Some of the benefits confirmed by various installers of Knotwood™ Cladding...

- Lower cost materials and installation labor
- Adjustable gap reveal for desired look and resistance to water penetration
- Single person installation
- Easy ground level damage replacement
- Multiple trims for ease of install
- Knotwood™ is available in other systems that can match color of cladding





# Knotwood Typical Details



Prepared by:  
PVE, LLC  
2000 Georgetowne Drive, Suite 101  
Sewickley, PA 15143  
Phone ... (724) 444-1100

**TABLE OF CONTENTS**

**CLADDING**

Typical Attachment Detail ..... C-1

Typical Splice Detail..... C-2

Typical Butt Joint Detail..... C-3

Typical Starter/Parapet Detail..... C-4

Typical Wall to Ceiling Inside Corner Detail ..... C-5

Typical Wall to Ceiling Outside Corner Detail ..... C-6

Typical Wall to Wall Inside Corner Detail ..... C-7

Typical Wall to Wall Outside Corner Detail ..... C-8

Typical Edge Trim Detail ..... C-9

Typical Sloped Soffit Detail ..... C-10

Typical Sloped to Flat Soffit Detail ..... C-11

**FENCING**

Typical General Use Elevation View..... F-1

Typical One-Way Post at Existing Wall..... F-2

Typical 2-1/2”x2-1/2 Two-Way Post Detail..... F-3

Typical 2-1/2”x2-1/2” Two-Way End Post Detail..... F-4

Typical 2-1/2”x2-1/2” Corner Post Detail ..... F-5

Typical 2-1/2”x2-1/2” Post Baseplate Detail..... F-6

Typical Top or Bottom Rail Detail ..... F-7

Typical 1-1/2” Slat (KES3816)..... F-8

Typical 2-1/2” Slat (KES6516)..... F-9

Typical 4” Slat (KES10016)..... F-10

Typical 6” Slat (KES15016)..... F-11

**GATES**

Typical Large Gate Detail..... G-1

Typical Small Gate Detail..... G-2

Typical Sliding Gate Detail..... G-3

Typical Sliding Gate Caster/Track Detail..... G-4

Typical Gate Frame Corner Detail..... G-5

**BALUSTRADE/RAILINGS**

Typical Fascia Mount Railing..... R-1

Typical Balustrade/Railing Section ..... R-2

Typical 2-1/2"x2-1/2" Two-Way End Post Detail..... R-3

Typical 2-1/2"x2-1/2" Two-Way Middle Post Detail..... R-4

Typical One-Way End Post Detail at Existing Wall..... R-5

Typical Fascia Mount Detail..... R-6

**BATTENS**

Typical Batten Connection Detail..... B-1

Typical Batten Corner Connection Detail..... B-2

Typical Batten End Detail..... B-3

Typical Batten Joint Detail ..... B-4

Typical 2" Batten Part A (KEB5050M)..... B-5

Typical 2"x2" Batten (KEB5050F)..... B-6

Typical 2"x4" Batten (KEB10050F)..... B-7

Typical 2"x6" Batten (KEB15050F)..... B-8

Typical 2"x8" Batten (KEB20050F)..... B-9

Optional 2"x6" Rounded Batten ..... B-10

Optional 2"x8" Rounded Batten ..... B-11

Optional 2" Batten Joiner..... B-12





Typical 2” Batten 135° Corner Adapter..... B-13

Typical 1” Narrow Batten Part A (KEB5025M) ..... B-14

Typical 1”x2” Narrow Batten (KEB5025F) ..... B-15

Typical 1”x3” Narrow Batten (KEB7525F) ..... B-16

Typical 1”x4” Narrow Batten (KEB10025F) ..... B-17

Typical 1”x6” Narrow Batten (KEB15025F) ..... B-18

Typical 1-1/2”X5/8” Self-Mating Batten (KESM3816)..... B-19

Typical 2-1/2”X5/8” Self-Mating Batten (KESM6516)..... B-20

Typical 4”X5/8” Self-Mating Batten (KESM10016) ..... B-21

Typical 6”X5/8” Self-Mating Batten (KESM15016) ..... B-22

Typical 6”X6” Self-Mating Batten (KESM150150) ..... B-23

Typical 8”X8” Self-Mating Batten (KESM200200) ..... B-24

**PERGOLAS**

Typical Pergola with Building Connection..... P-1

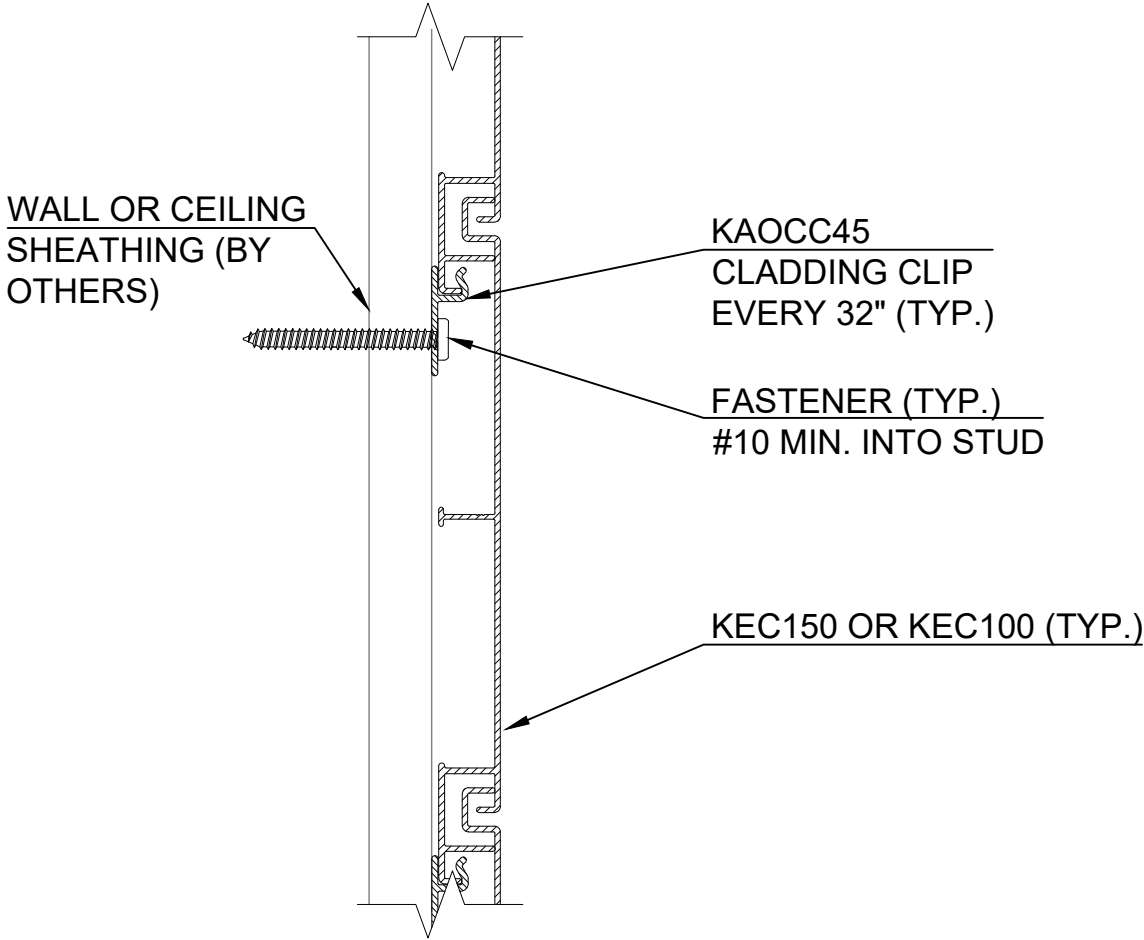
Typical Batten Connection ..... P-2

Typical Upper Post Connection ..... P-3

Typical Post Baseplate Connection..... P-4

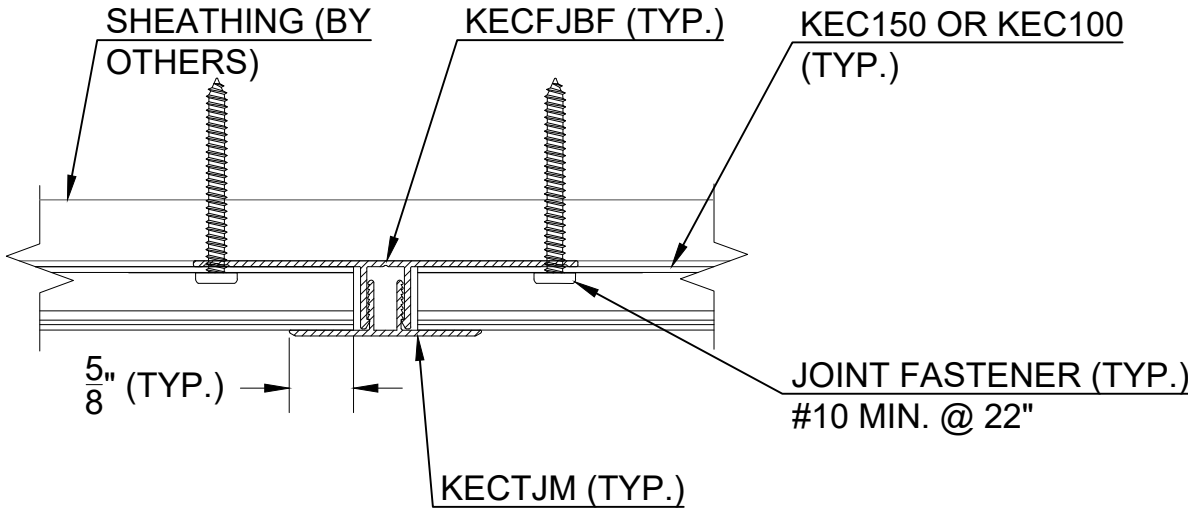


**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**



**TYPICAL ATTACHMENT DETAIL**

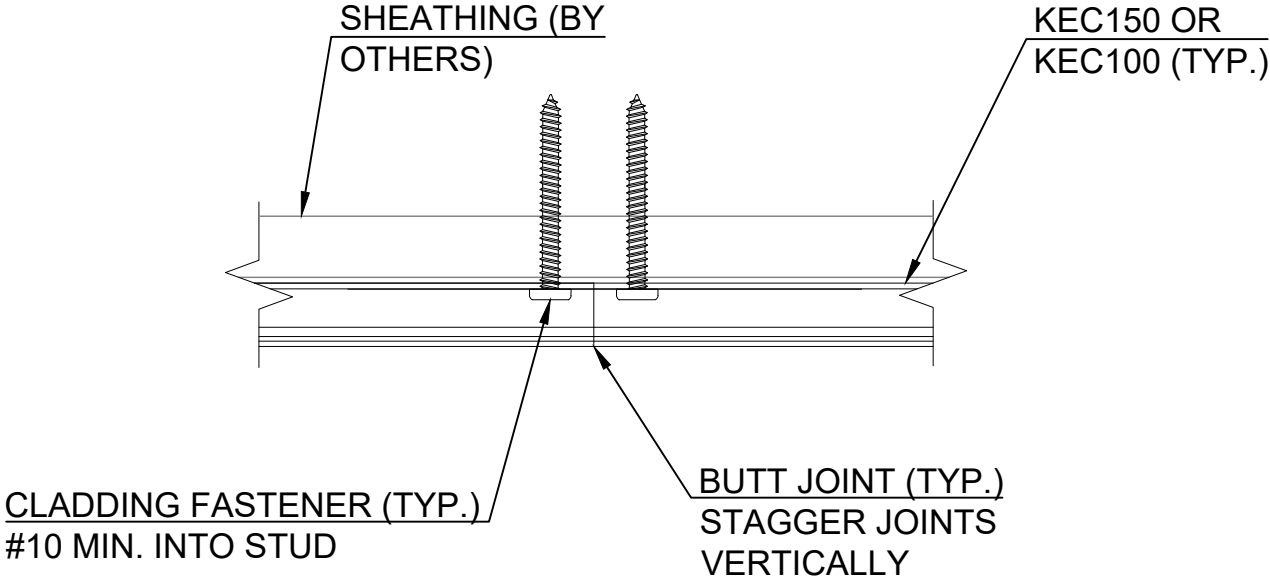
**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**



NOTE: JOINT FASTENERS SHALL BE INSTALLED THROUGH BOTH CLADDING BOARD (KEC150) AND JOINT CLIP (KECFJBF).

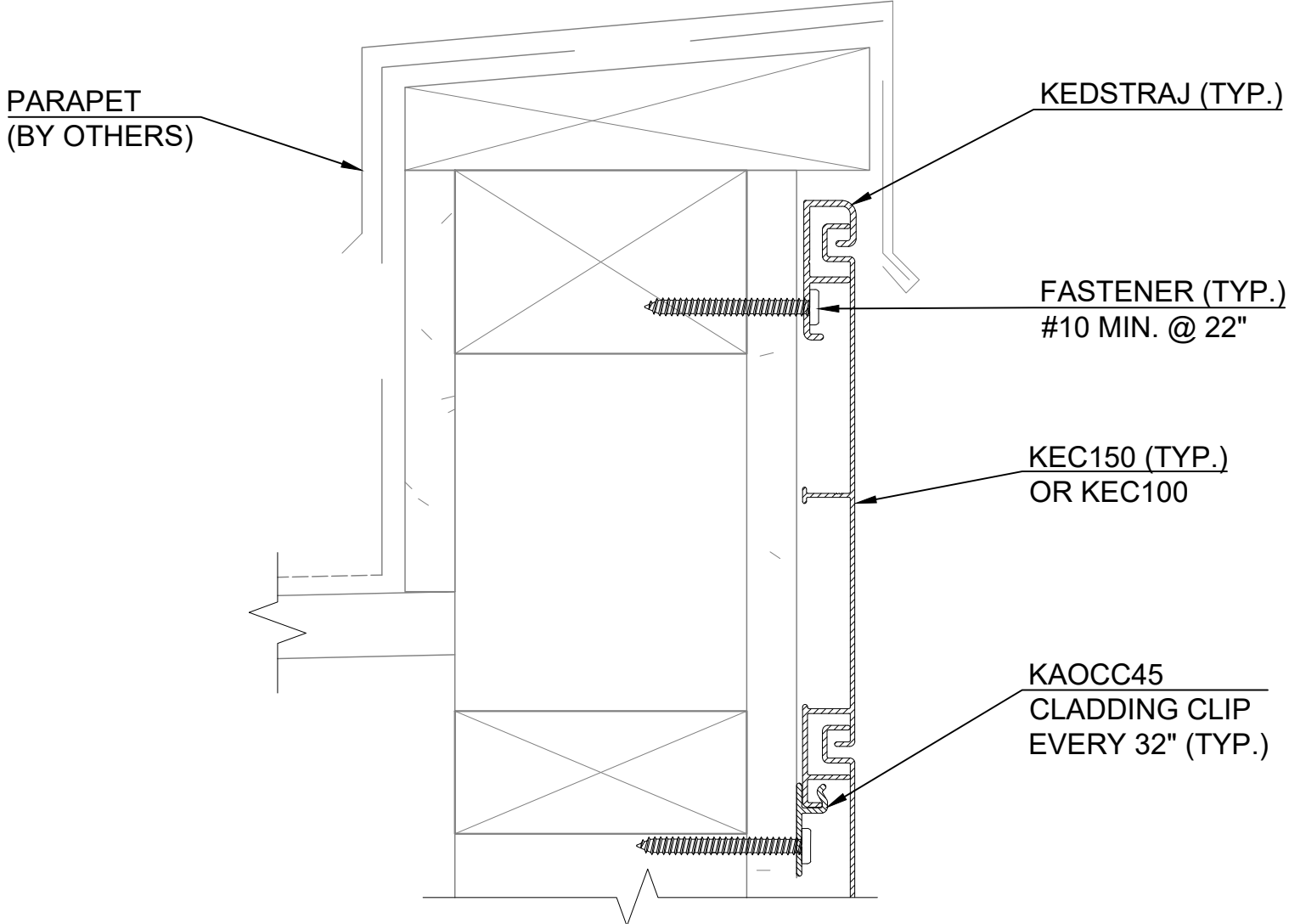
**TYPICAL SPLICE DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**



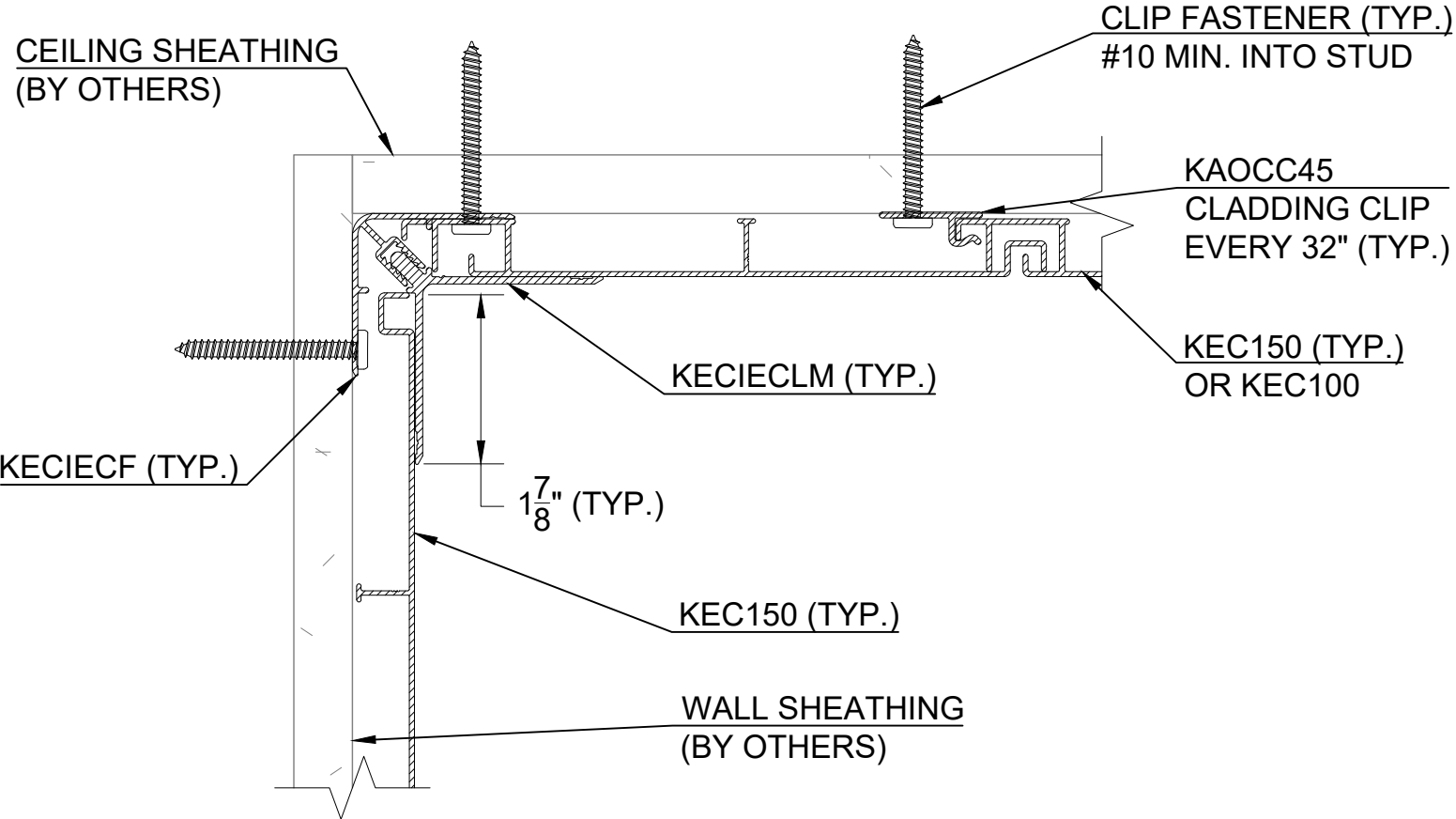
**TYPICAL BUTT JOINT DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**



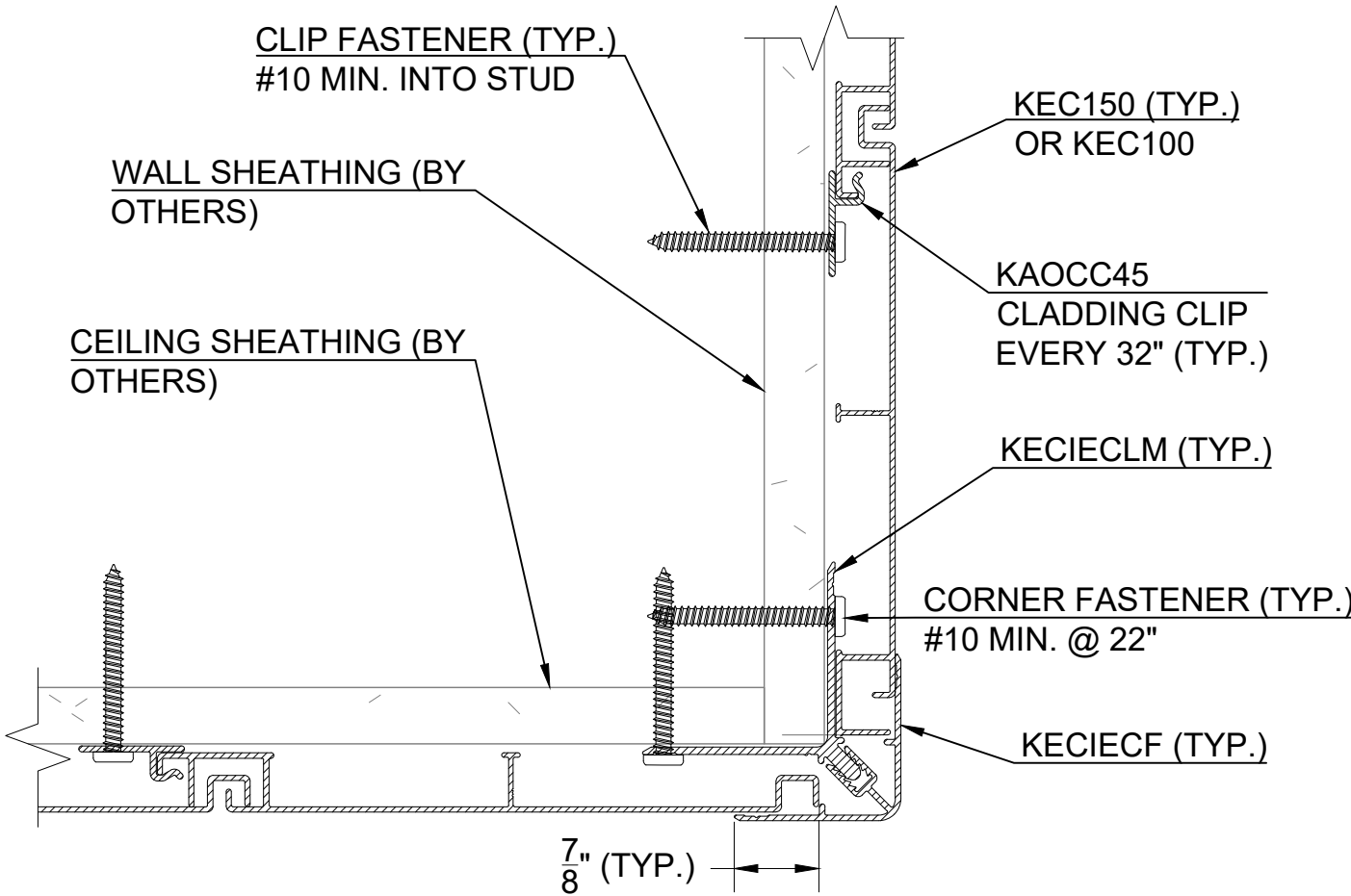
**TYPICAL STARTER/PARAPET DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**



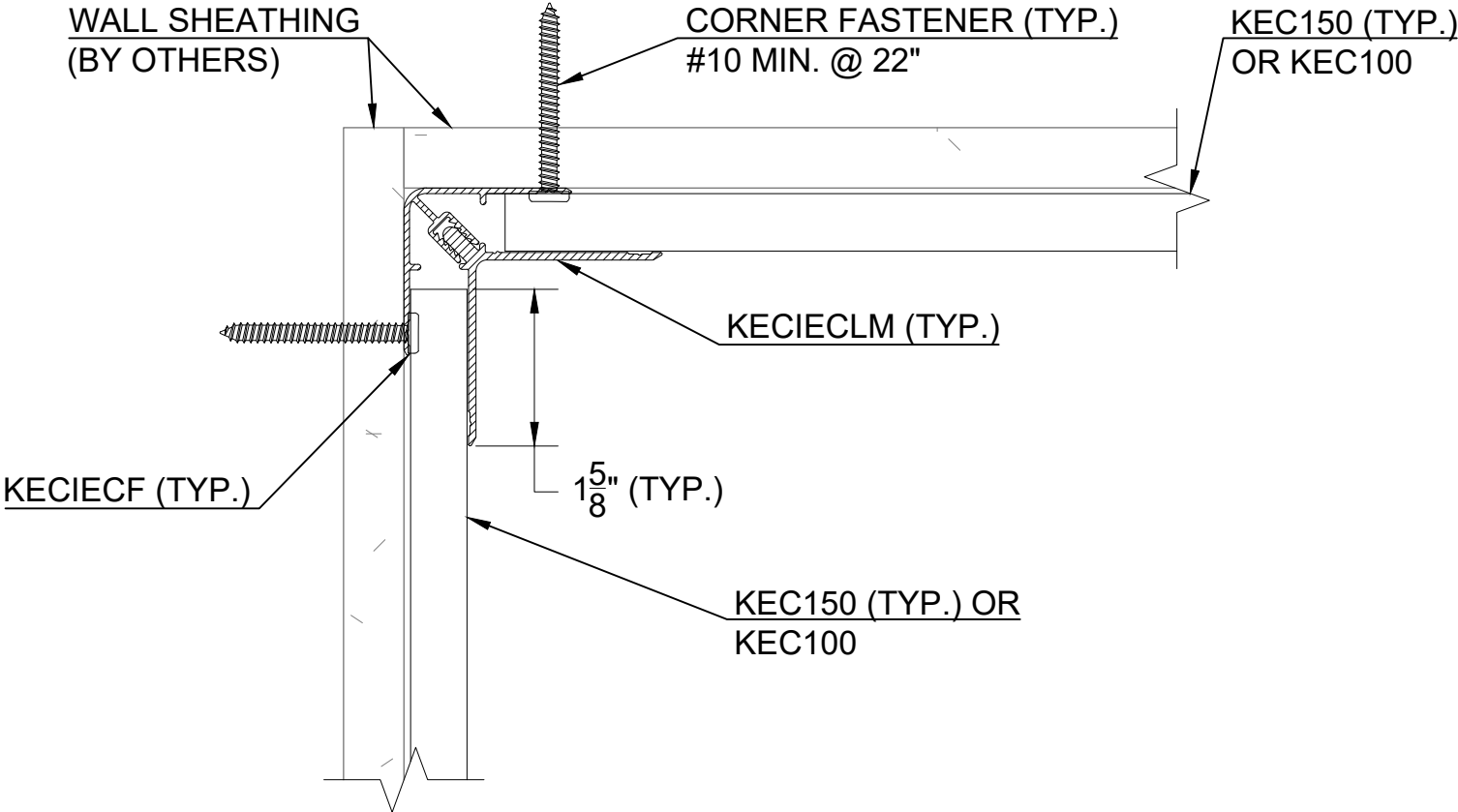
**TYPICAL WALL TO CEILING INSIDE CORNER DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**



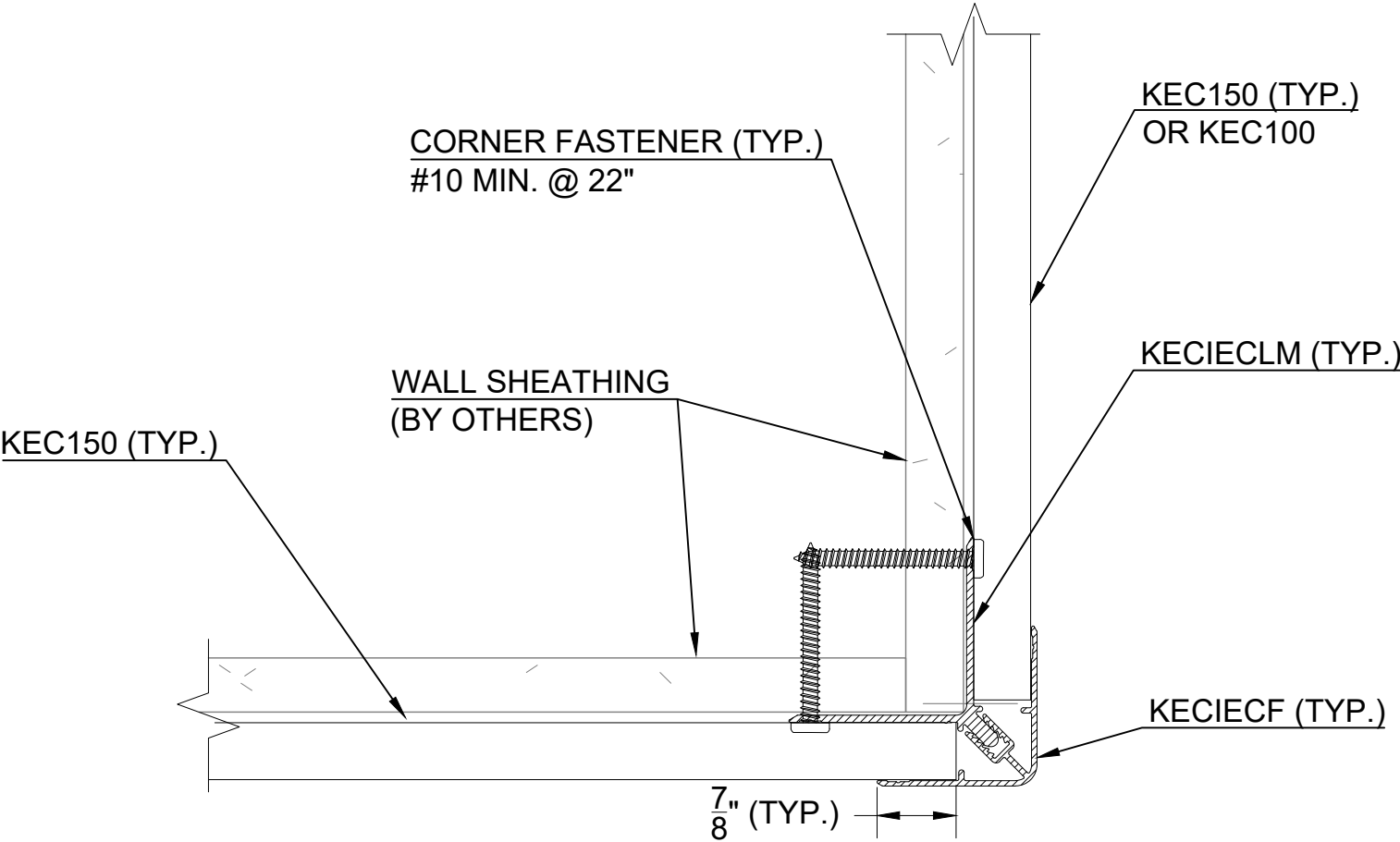
**TYPICAL WALL TO CEILING OUTSIDE CORNER DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**



**TYPICAL WALL TO WALL INSIDE CORNER**

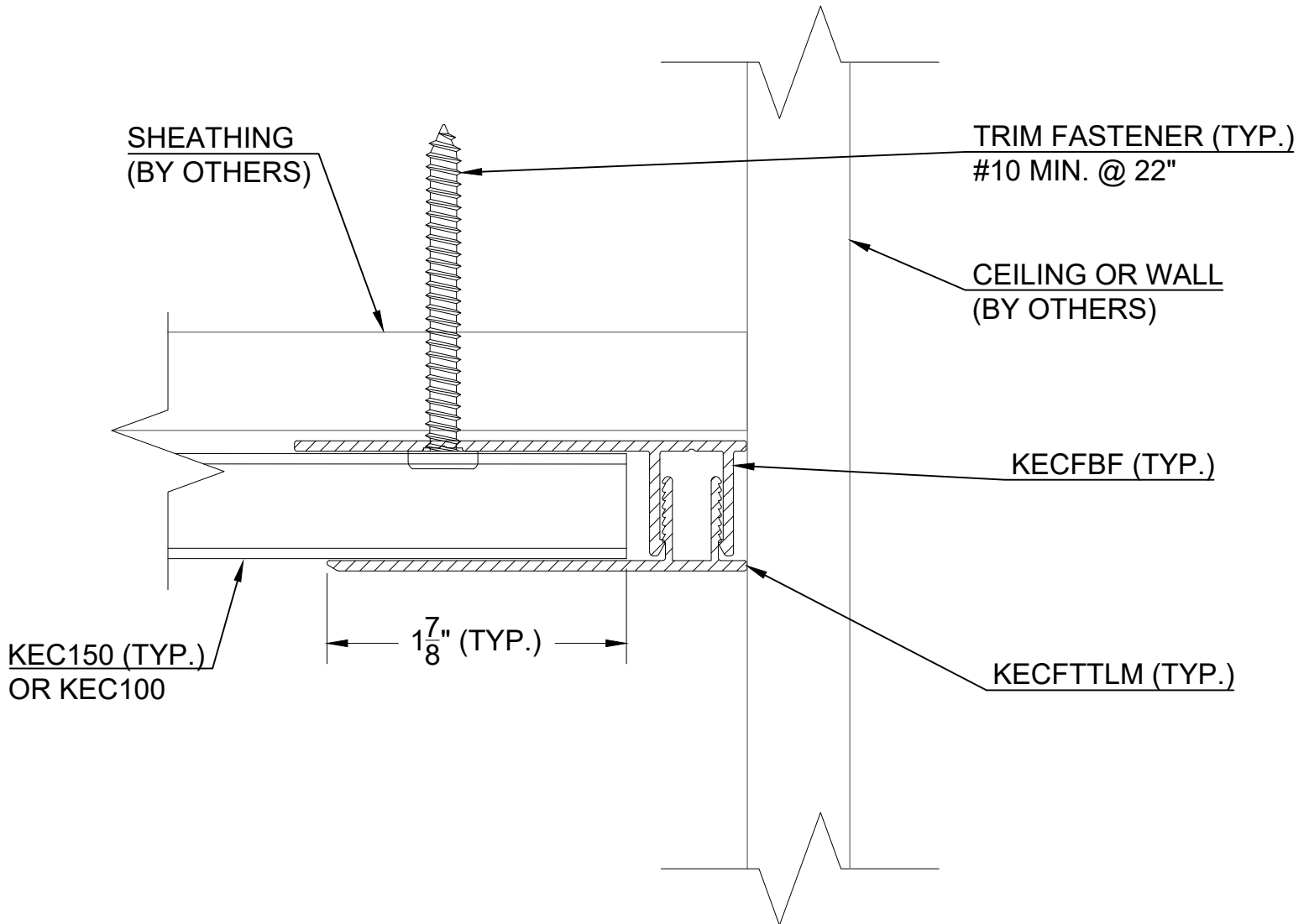
**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**



**TYPICAL WALL TO WALL OUTSIDE CORNER**



**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**

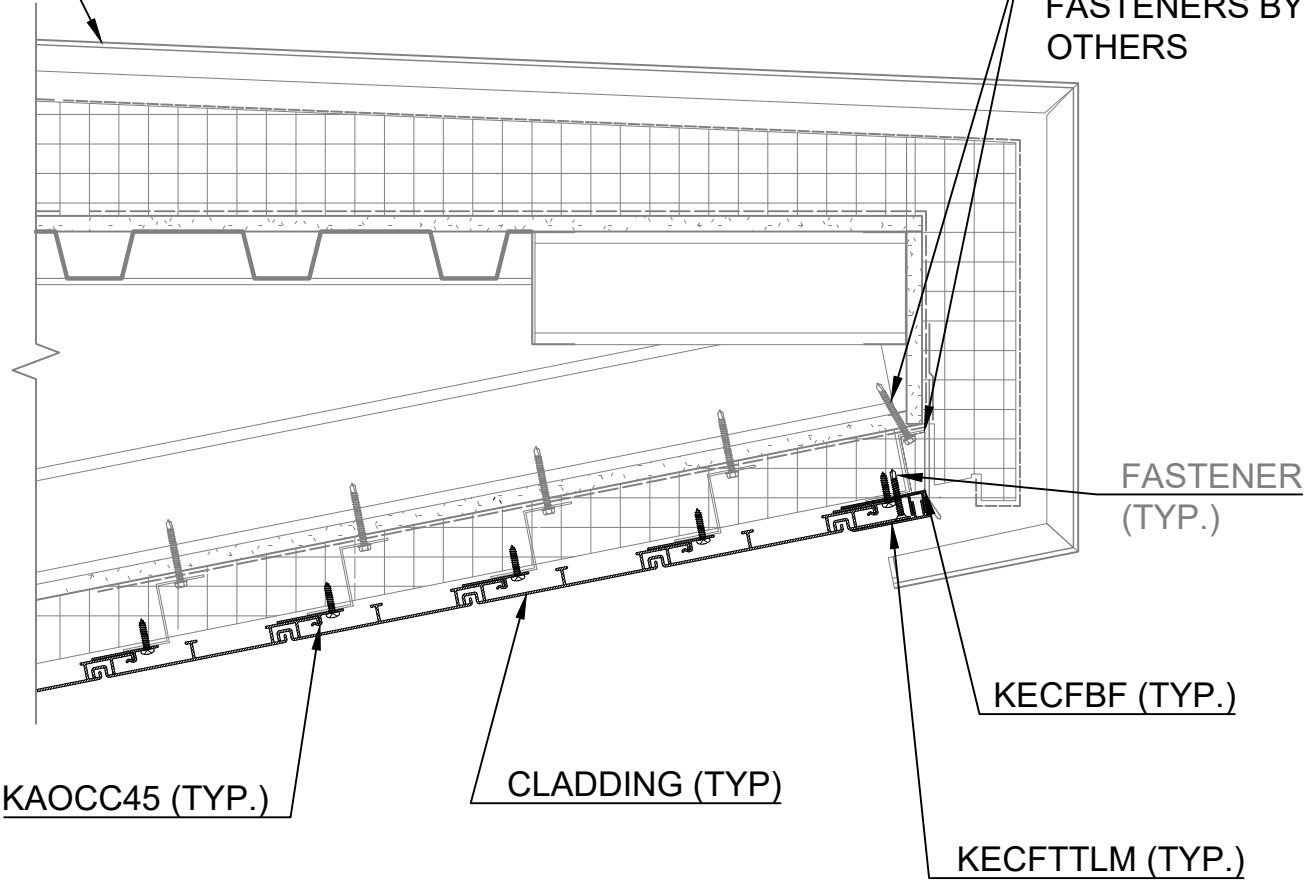


**TYPICAL EDGE TRIM DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**

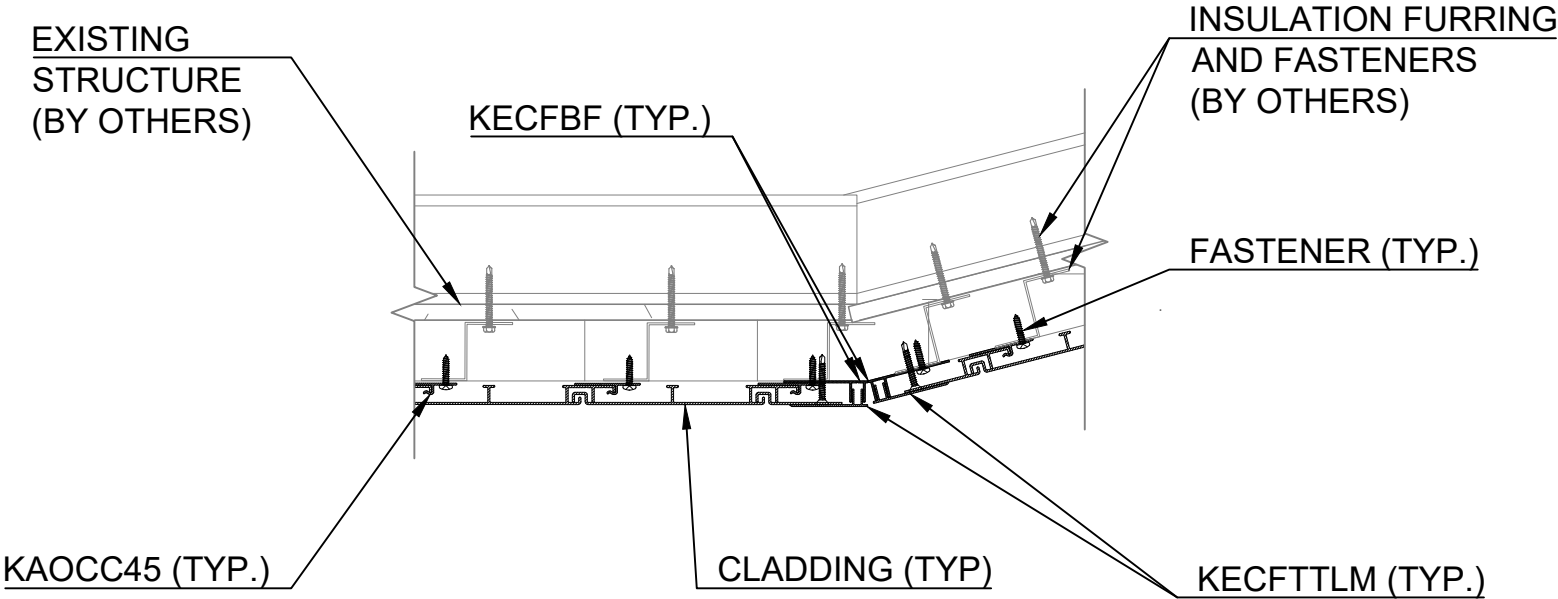
EXISTING  
STRUCTURE  
(BY OTHERS)

INSULATION  
FURRING AND  
FASTENERS BY  
OTHERS



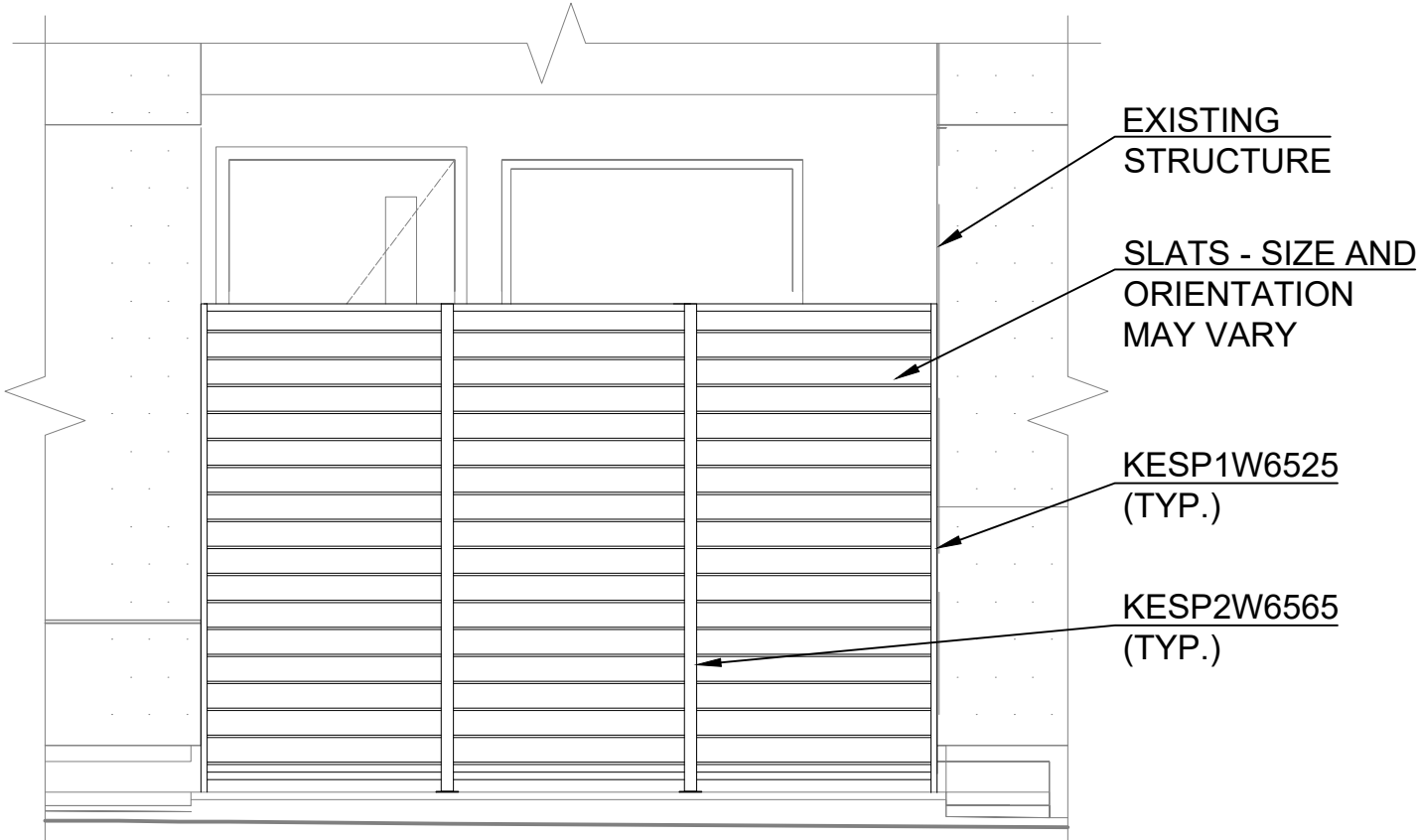
**TYPICAL SLOPED SOFFIT DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**CLADDING**



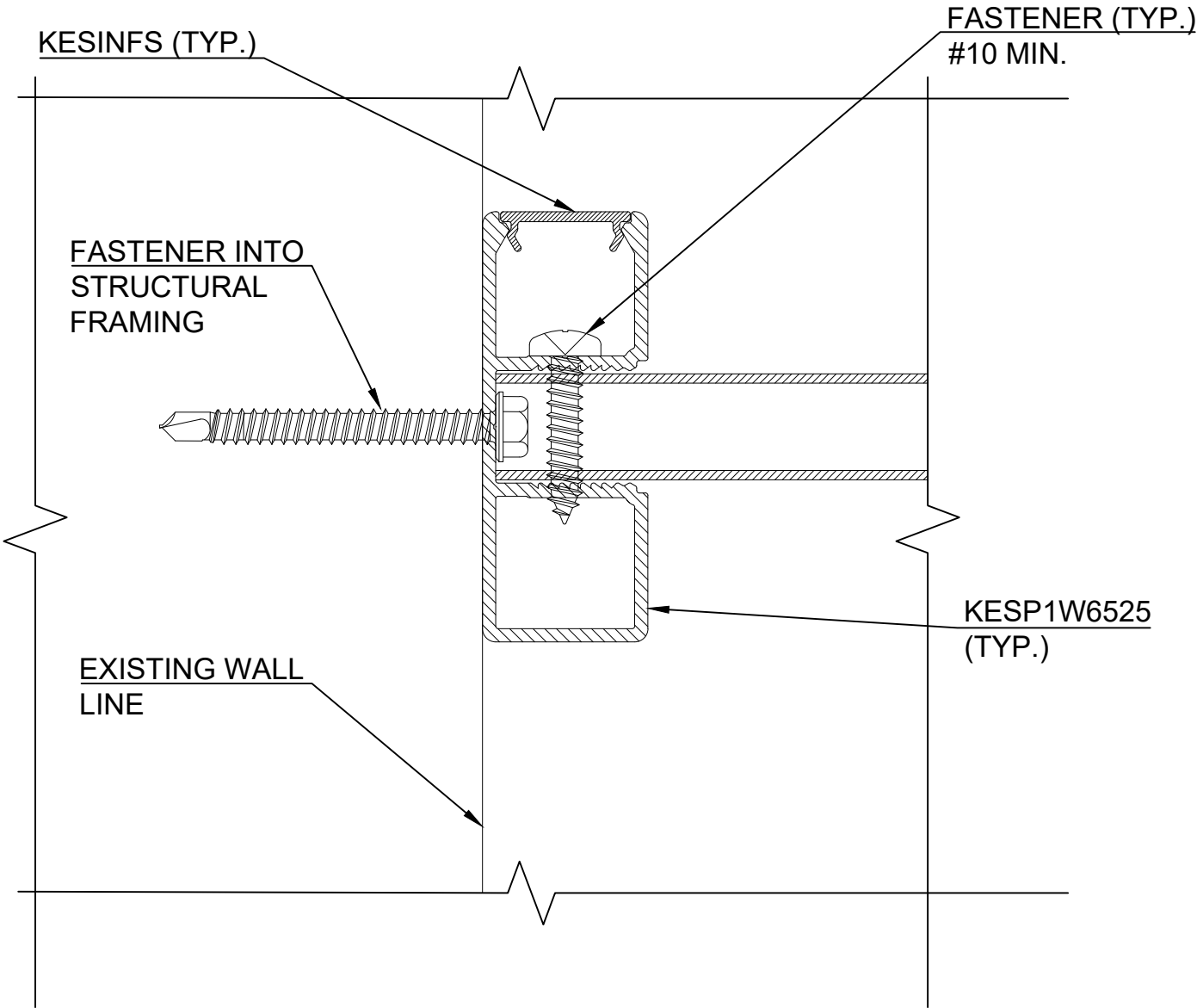
**TYPICAL SLOPED TO FLAT SOFFIT DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**FENCING/SCREENS**



**TYPICAL GENERAL USE ELEVATION VIEW**

**KNOTWOOD TYPICAL DETAILS**  
**FENCING/SCREENS**



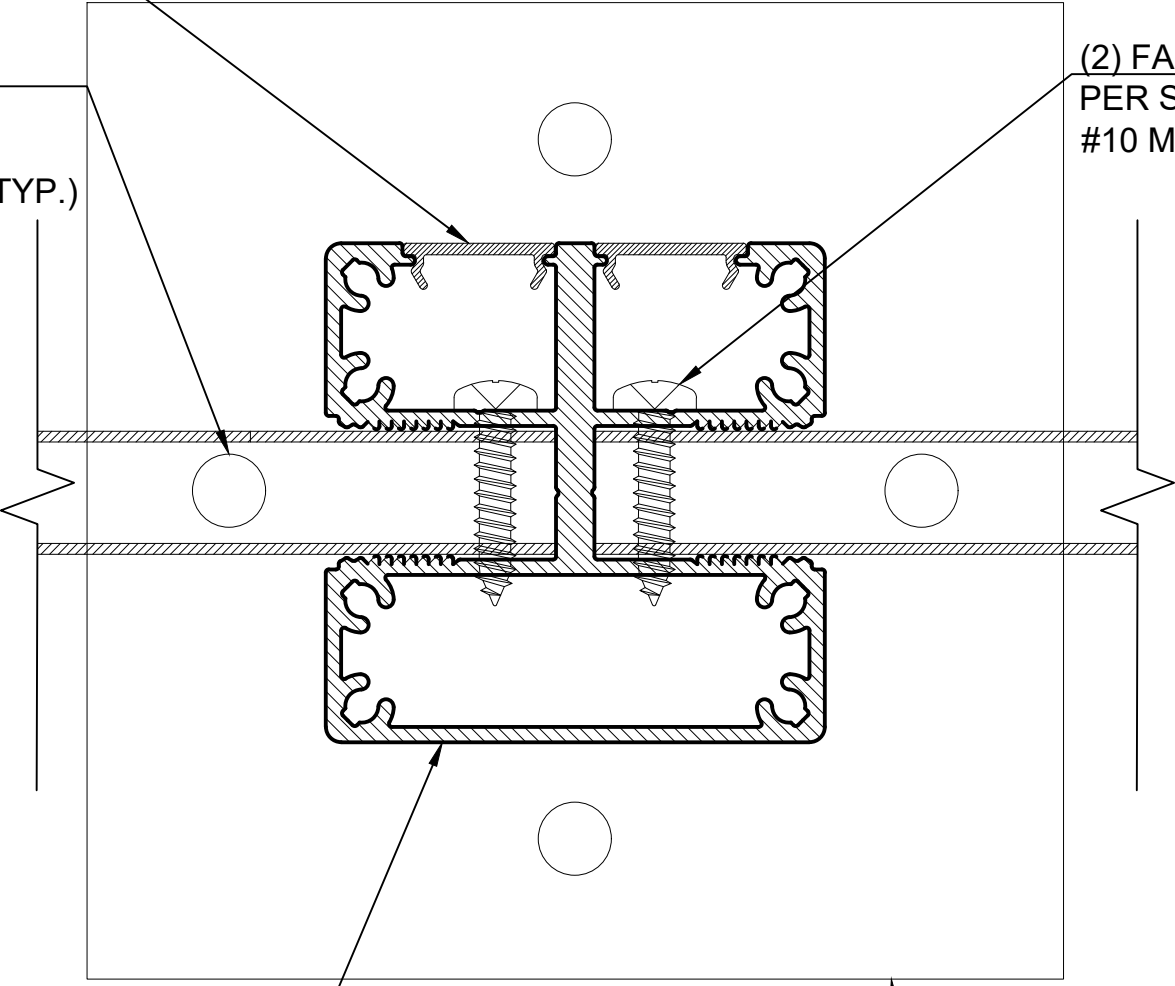
**TYPICAL ONE-WAY POST AT EXISTING WALL**

**KNOTWOOD TYPICAL DETAILS**  
**FENCING/SCREENS**

KESINFS (TYP.)

CONCRETE  
ANCHOR W/  
NEOPRENE  
WASHERS (TYP.)

(2) FASTENERS  
PER SLAT (TYP.)  
#10 MIN.

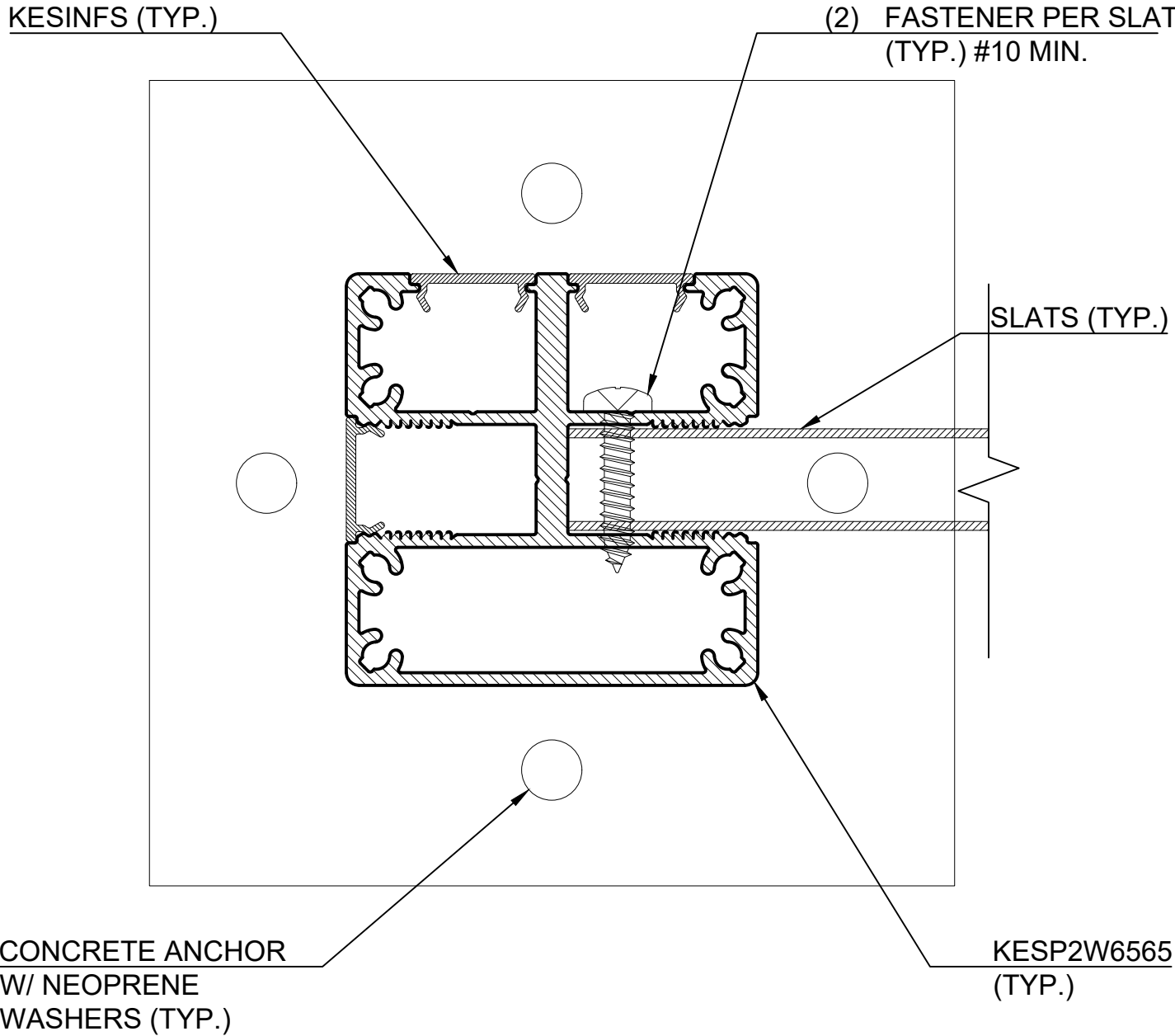


KESP2W6565

KWABP  
ATTACHED TO  
POST BOTTOM  
(TYP.)

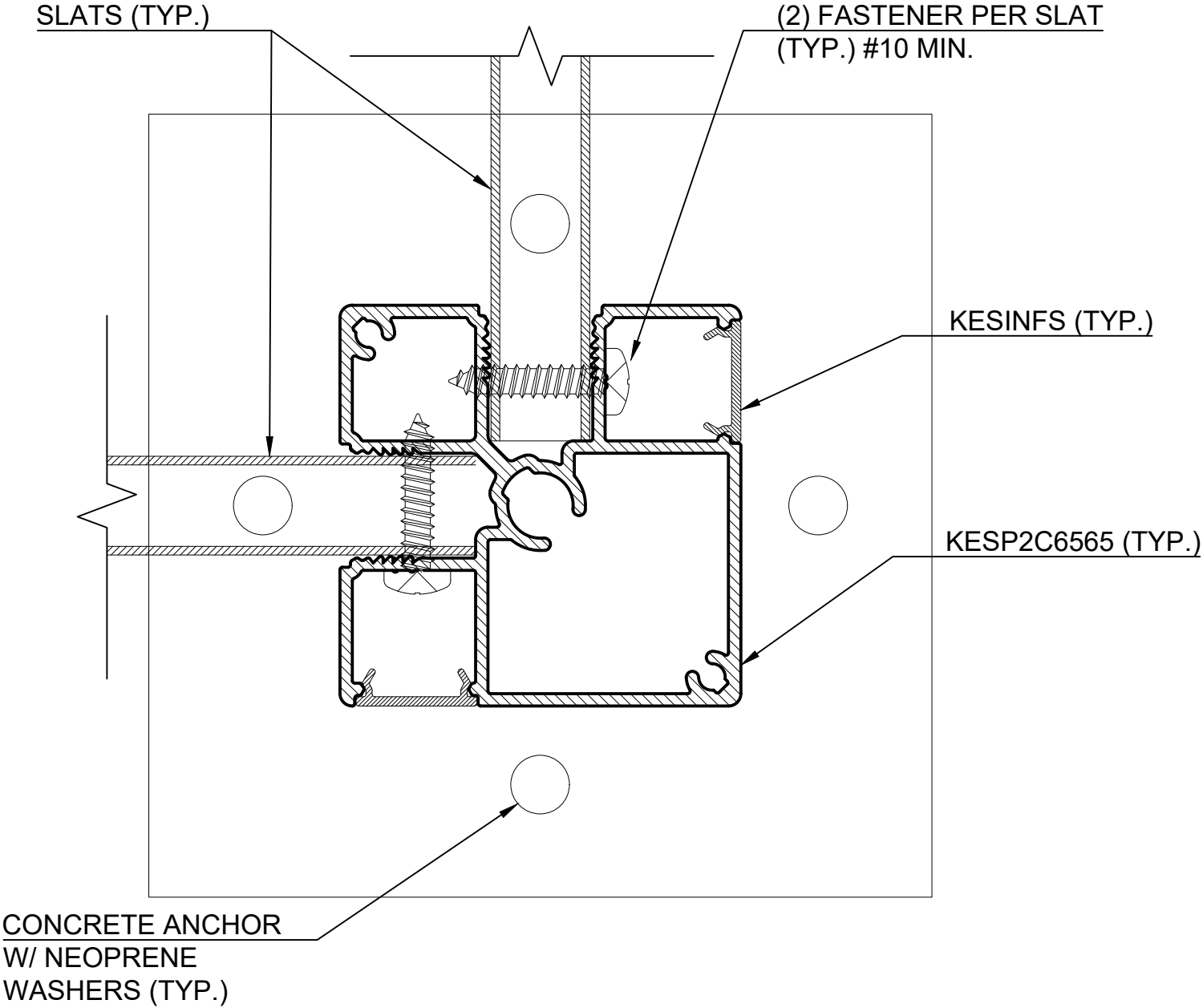
**TYPICAL 2-1/2"X2-1/2" TWO-WAY POST DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**FENCING/SCREENS**



**TYPICAL 2-1/2" X 2-1/2" TWO-WAY END POST DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**FENCING/SCREENS**

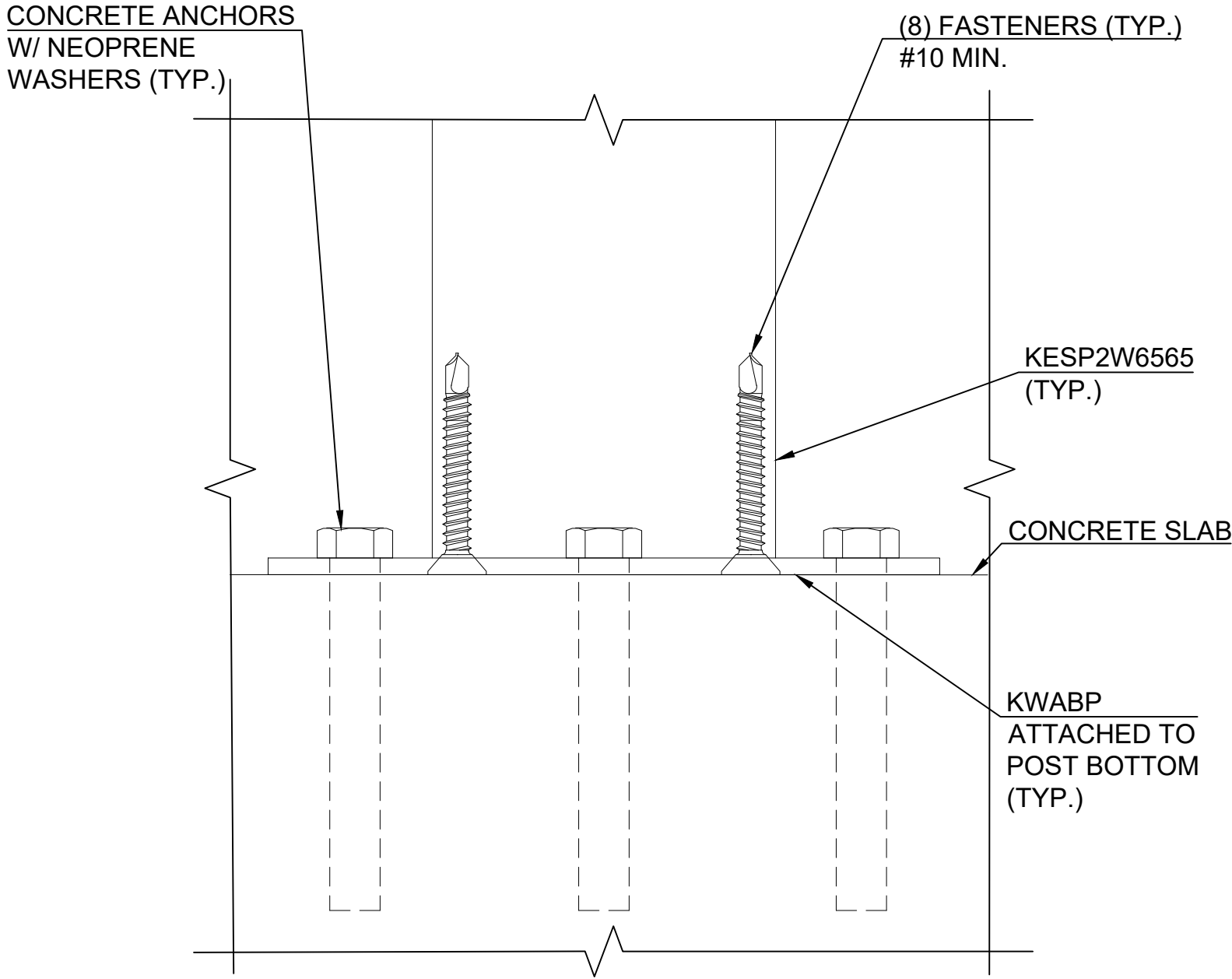


**TYPICAL 2-1/2"X2-1/2" CORNER POST DETAIL**



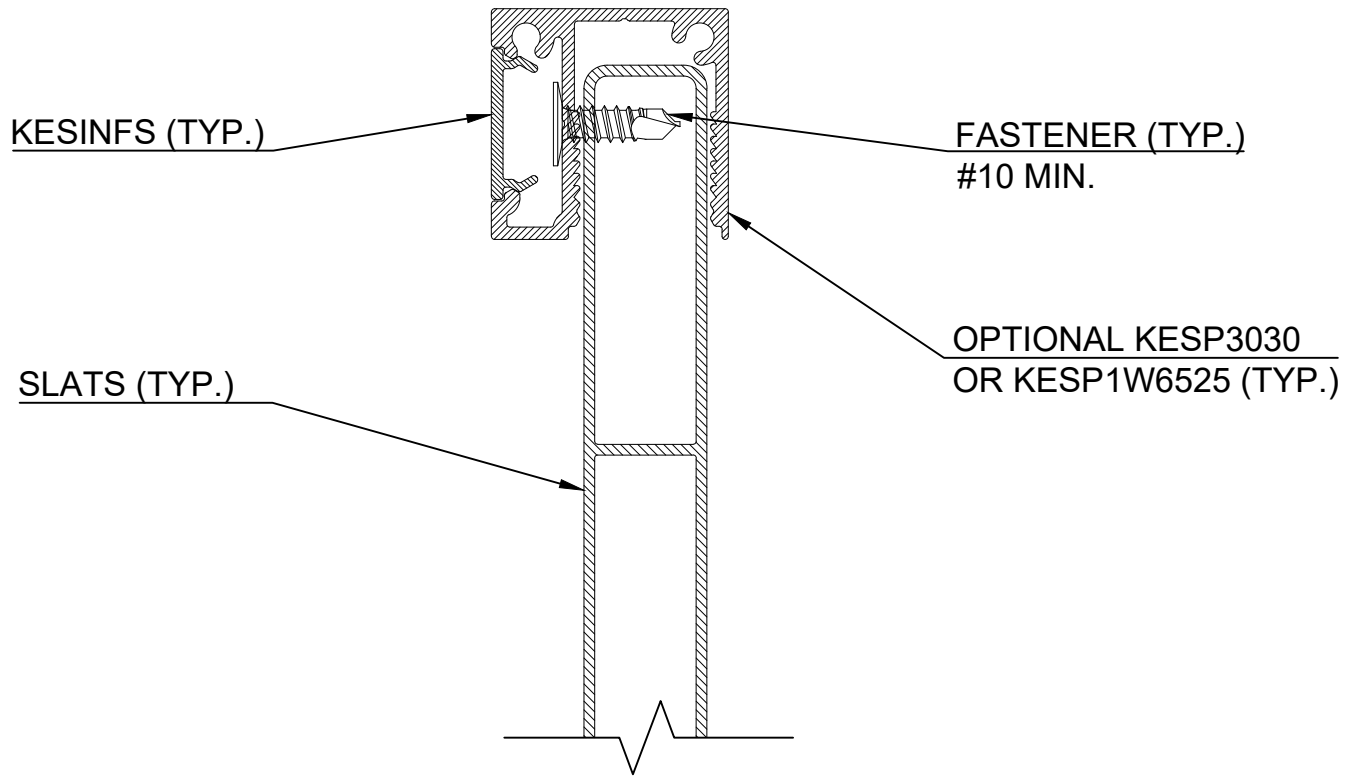
# KNOTWOOD TYPICAL DETAILS

## FENCING/SCREENS



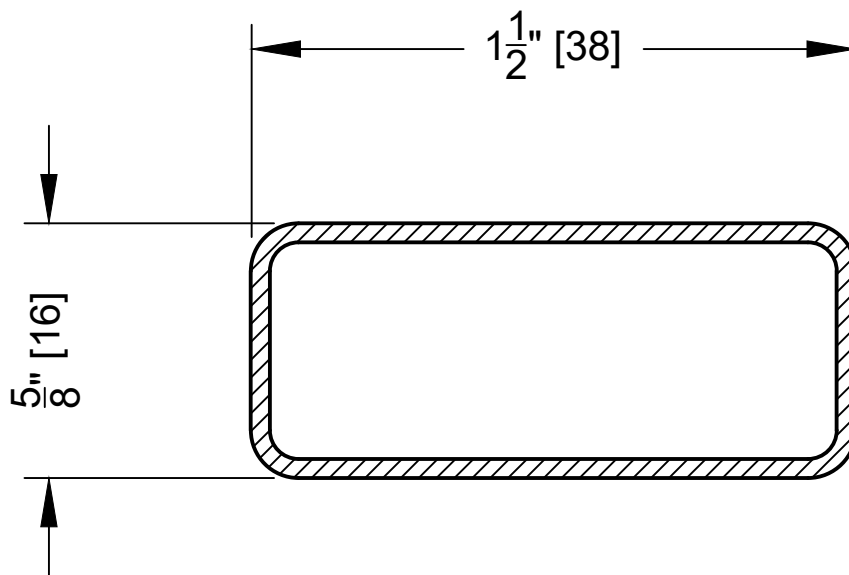
TYPICAL 2-1/2"X2-1/2" POST BASEPLATE DETAIL

**KNOTWOOD TYPICAL DETAILS**  
**FENCING/SCREENS**



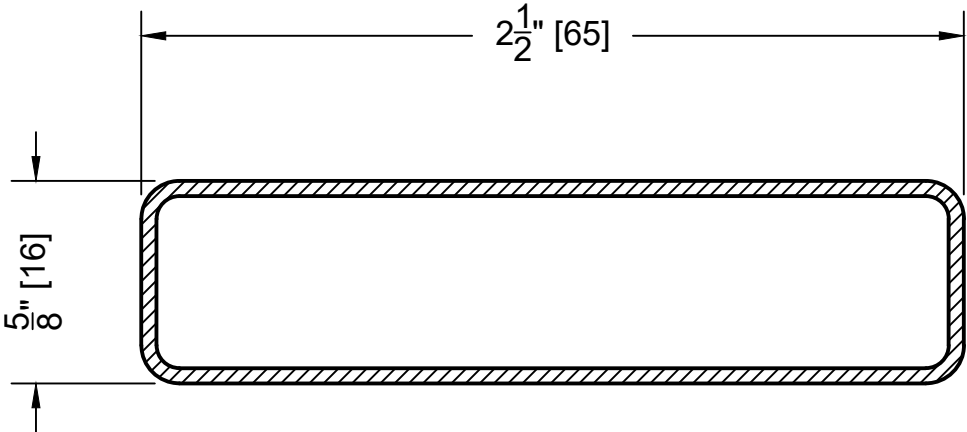
**TYPICAL TOP OR BOTTOM RAIL DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**FENCING/SCREENS**



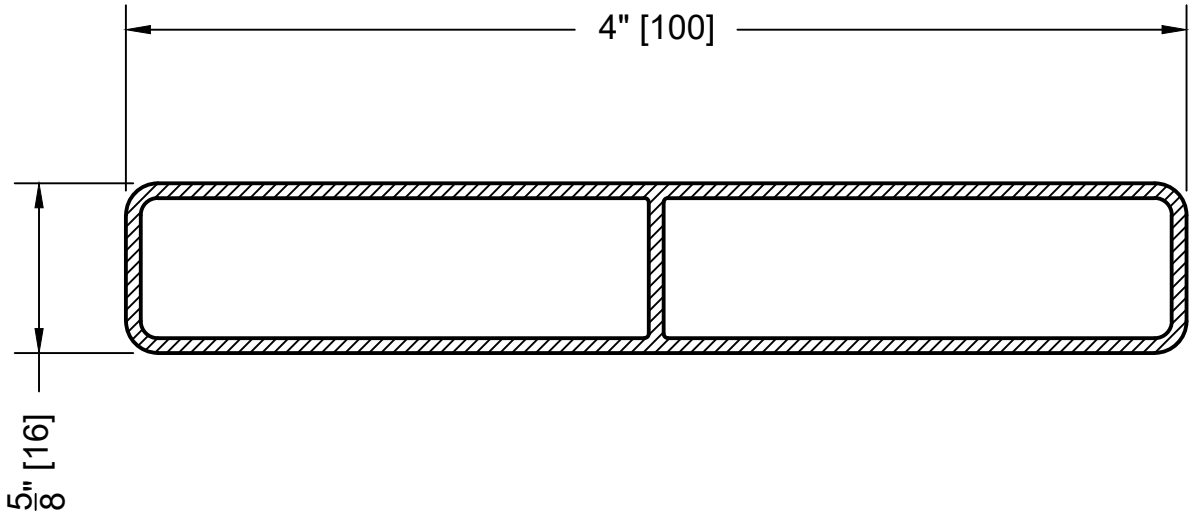
**TYPICAL 1-1/2" SLAT (KES3816)**

**KNOTWOOD TYPICAL DETAILS**  
**FENCING/SCREENS**



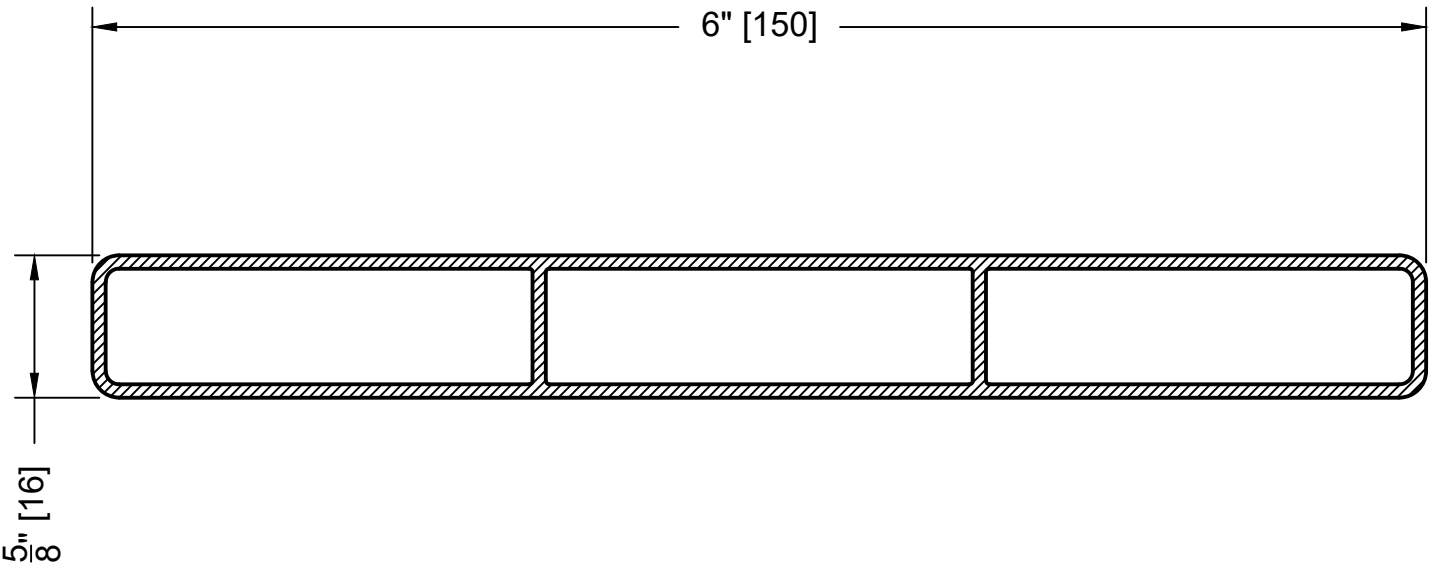
**TYPICAL 2-1/2" SLAT (KES6516)**

**KNOTWOOD TYPICAL DETAILS**  
**FENCING/SCREENS**



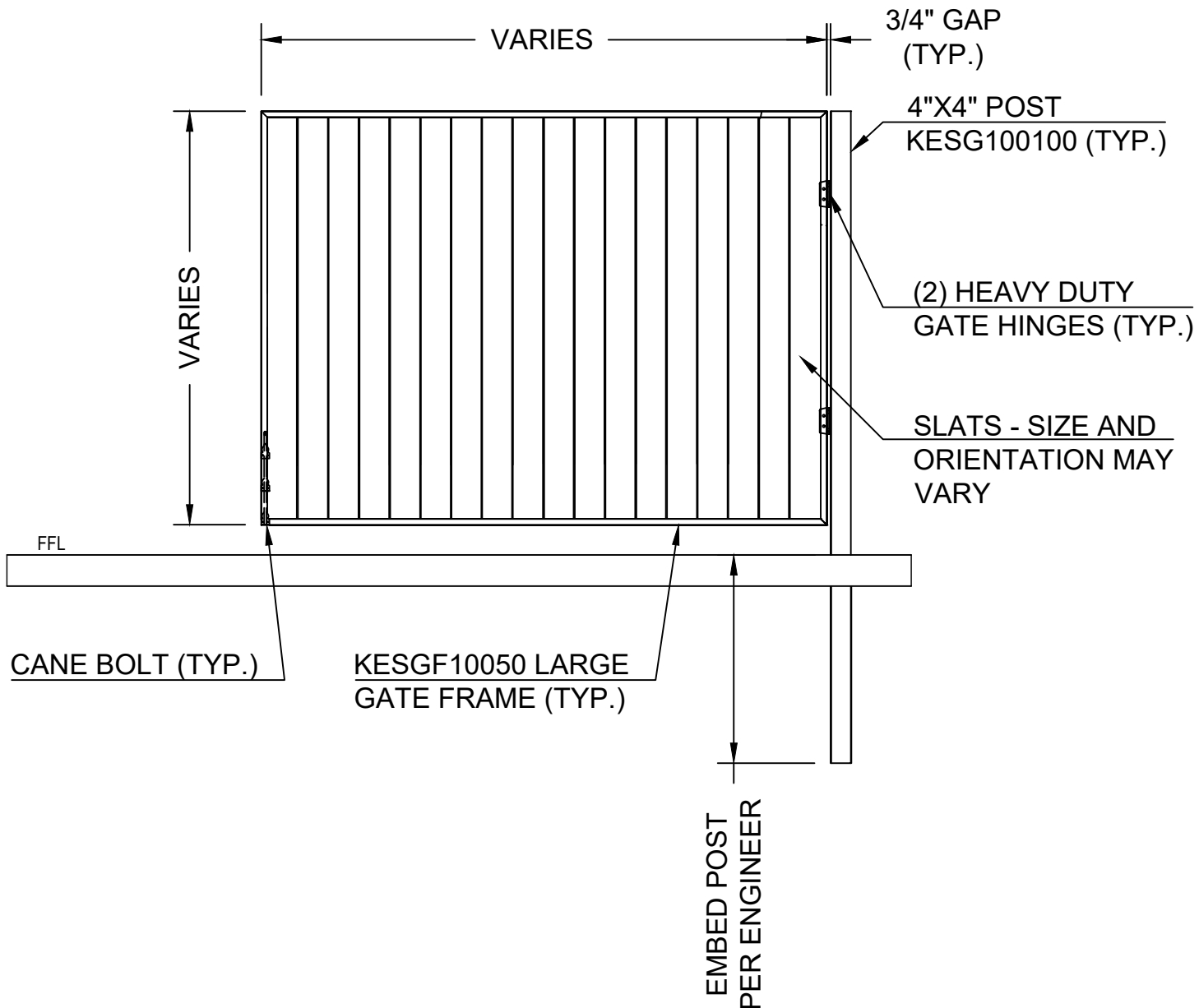
**TYPICAL 4 INCH SLAT (KES10016)**

**KNOTWOOD TYPICAL DETAILS**  
**FENCING/SCREENS**



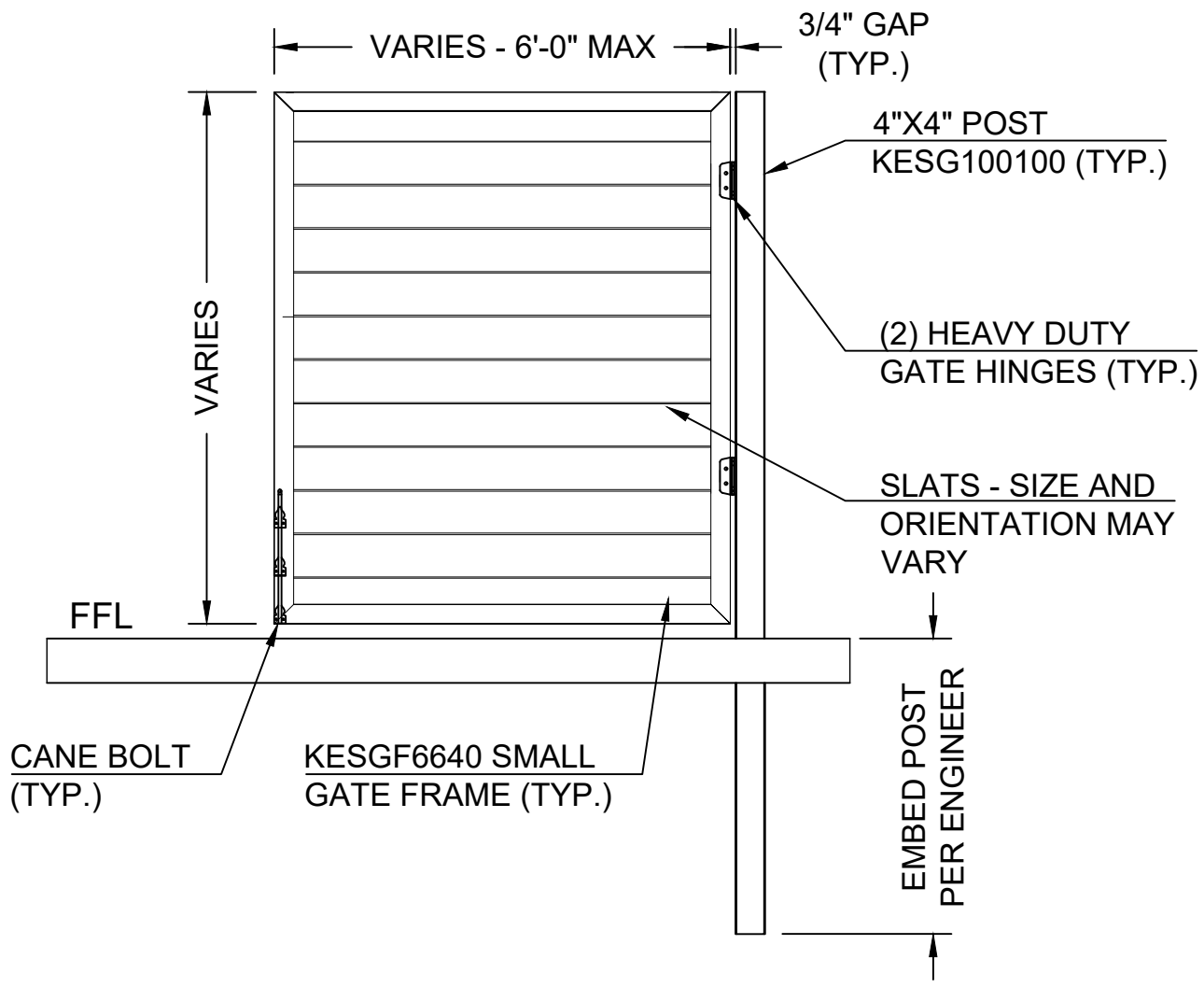
**TYPICAL 6 INCH SLAT (KES15016)**

**KNOTWOOD TYPICAL DETAILS**  
**GATES**



**TYPICAL LARGE GATE DETAIL**

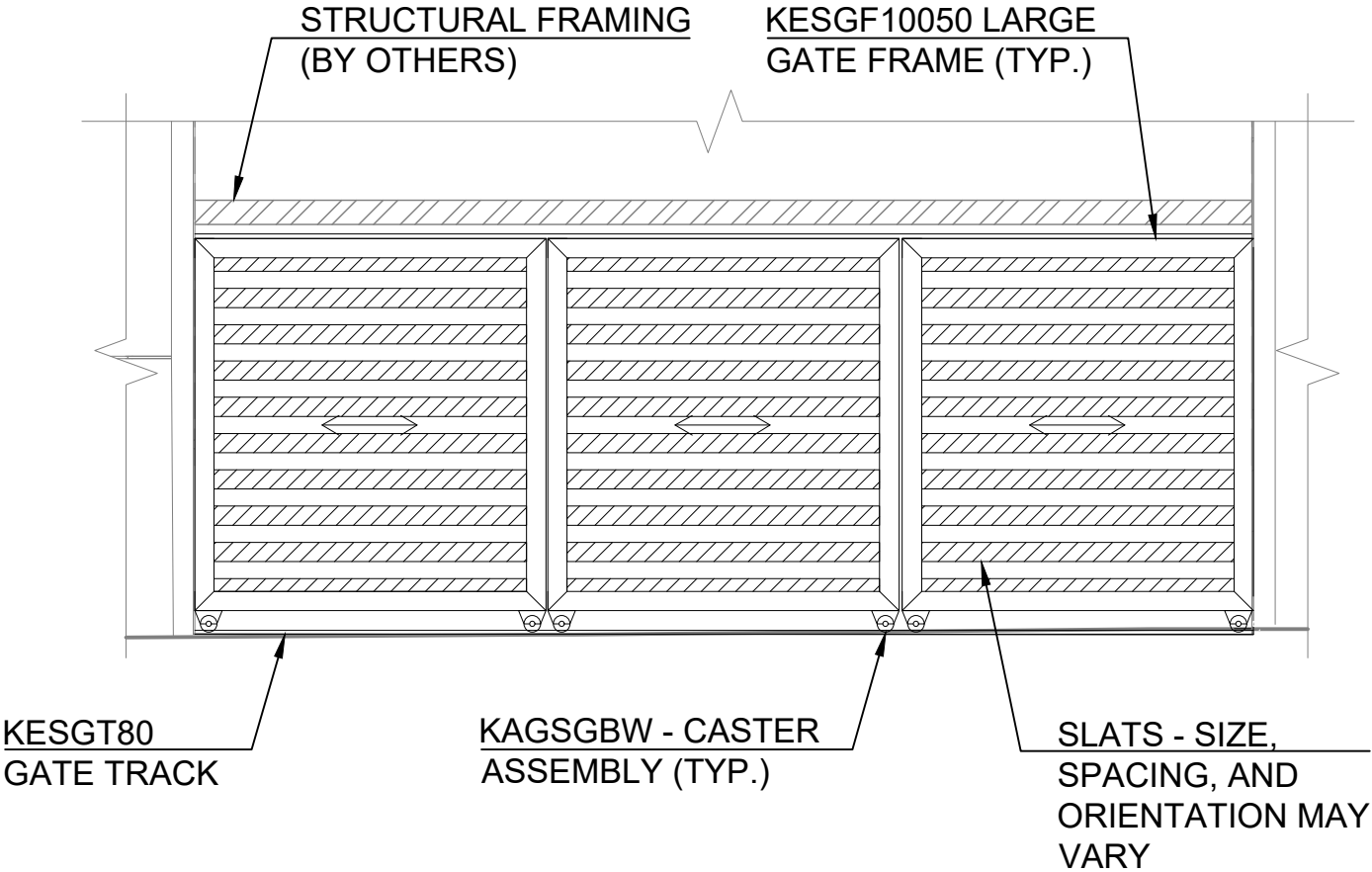
**KNOTWOOD TYPICAL DETAILS**  
**GATES**



**TYPICAL SMALL GATE DETAIL**

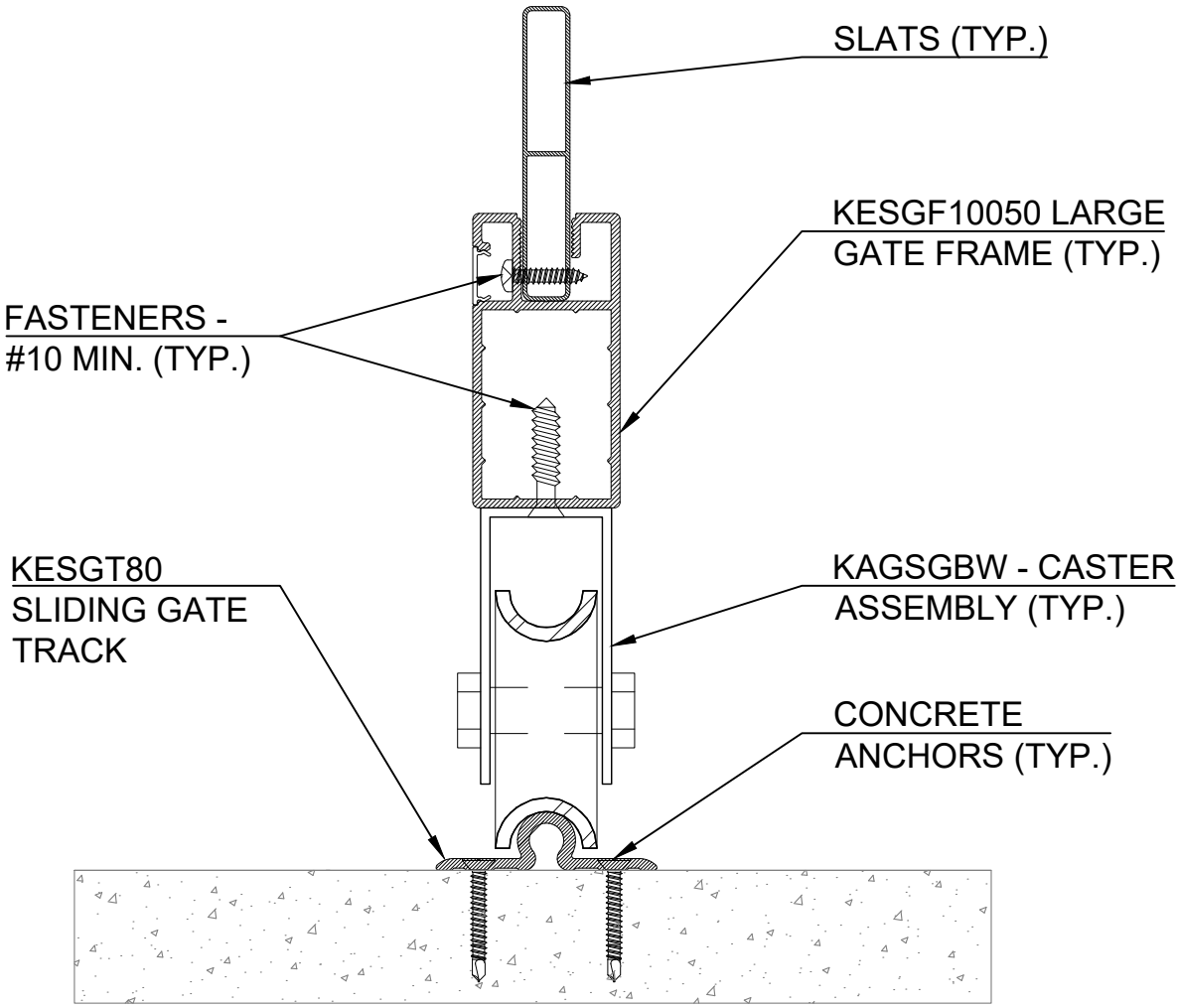


**KNOTWOOD TYPICAL DETAILS**  
**GATES**



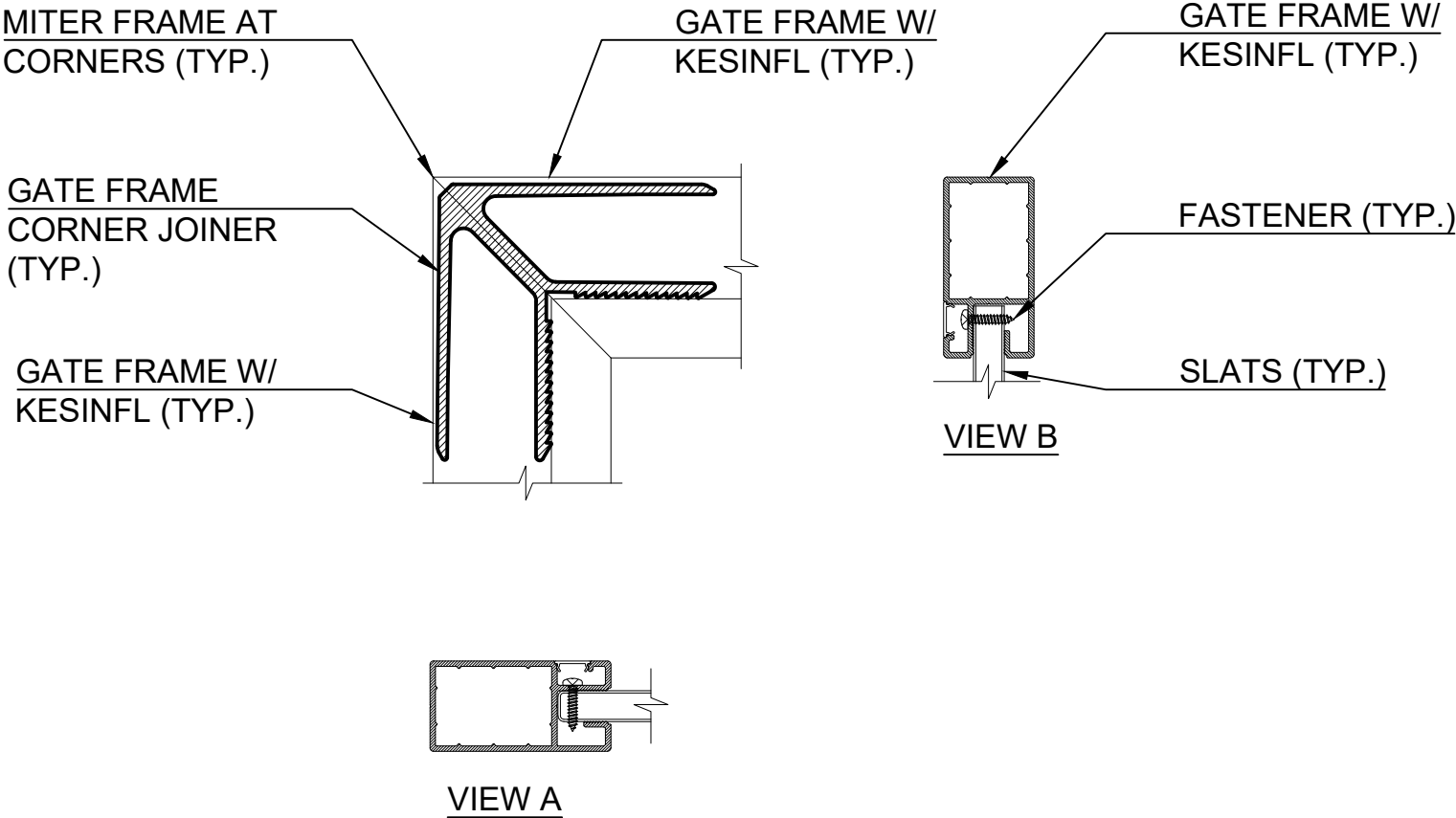
**TYPICAL SLIDING GATE DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**GATES**



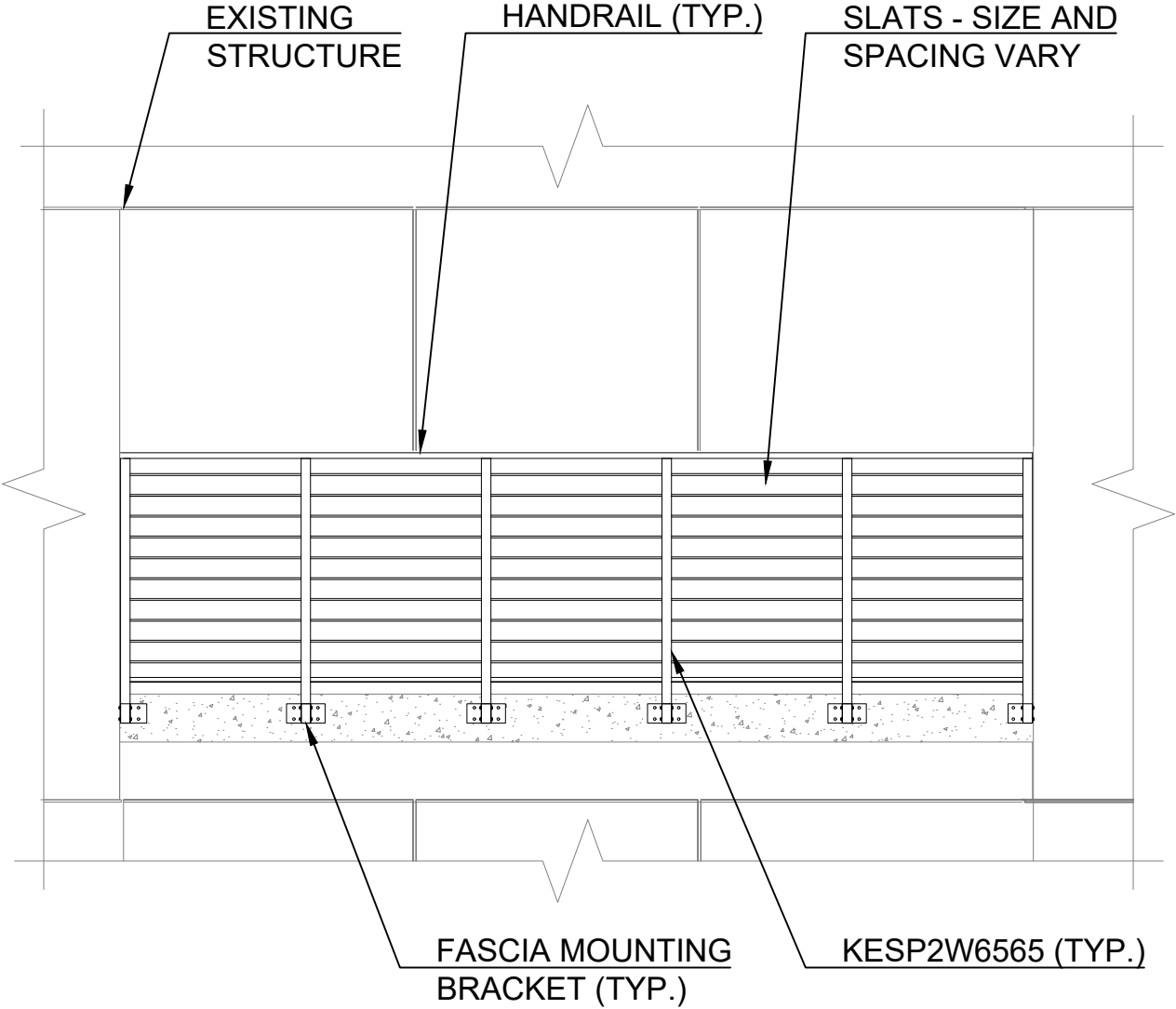
**TYPICAL SLIDING GATE CASTER/TRACK DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**GATES**



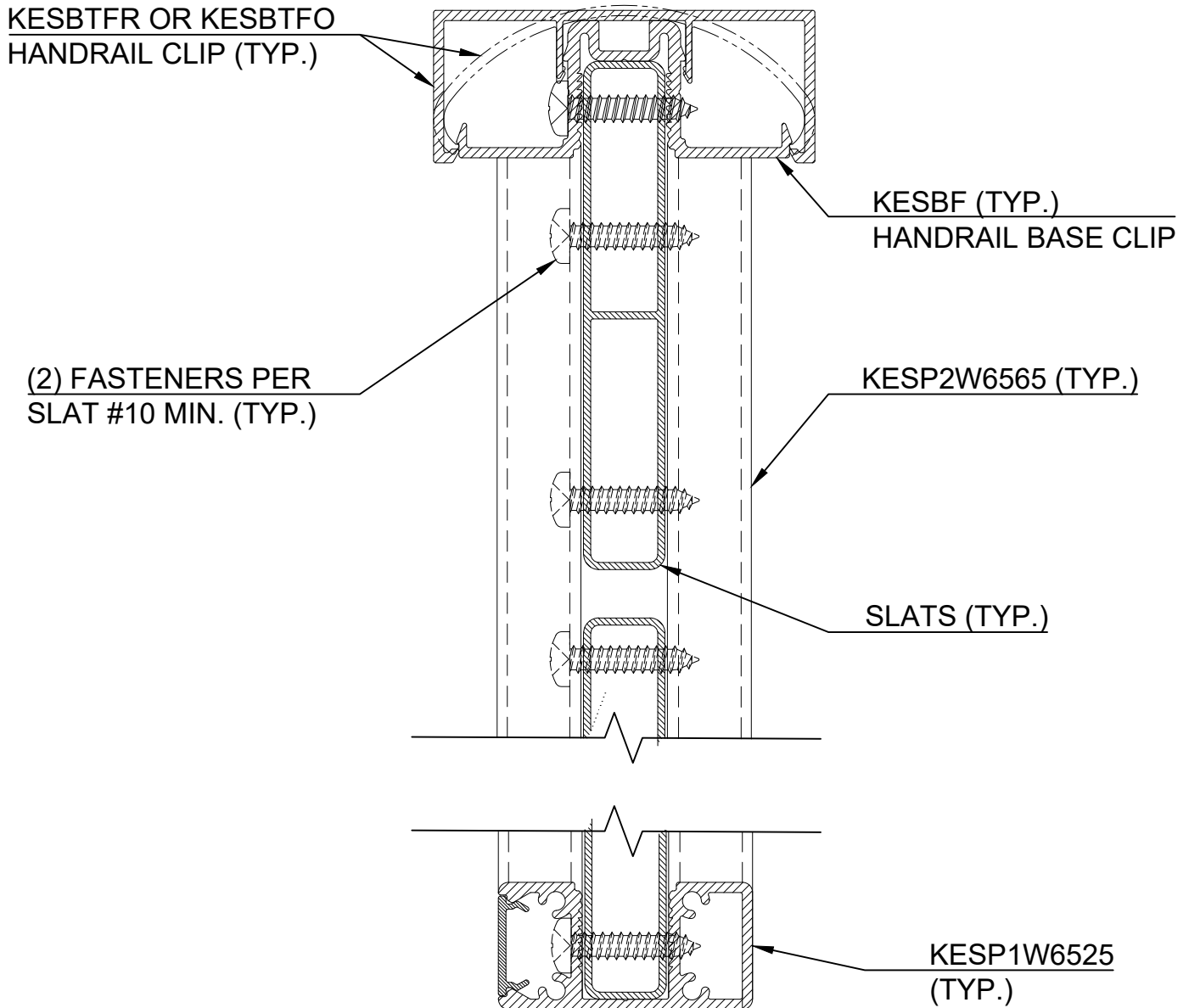
**TYPICAL GATE FRAME CORNER DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**BALUSTRADE/RAILINGS**



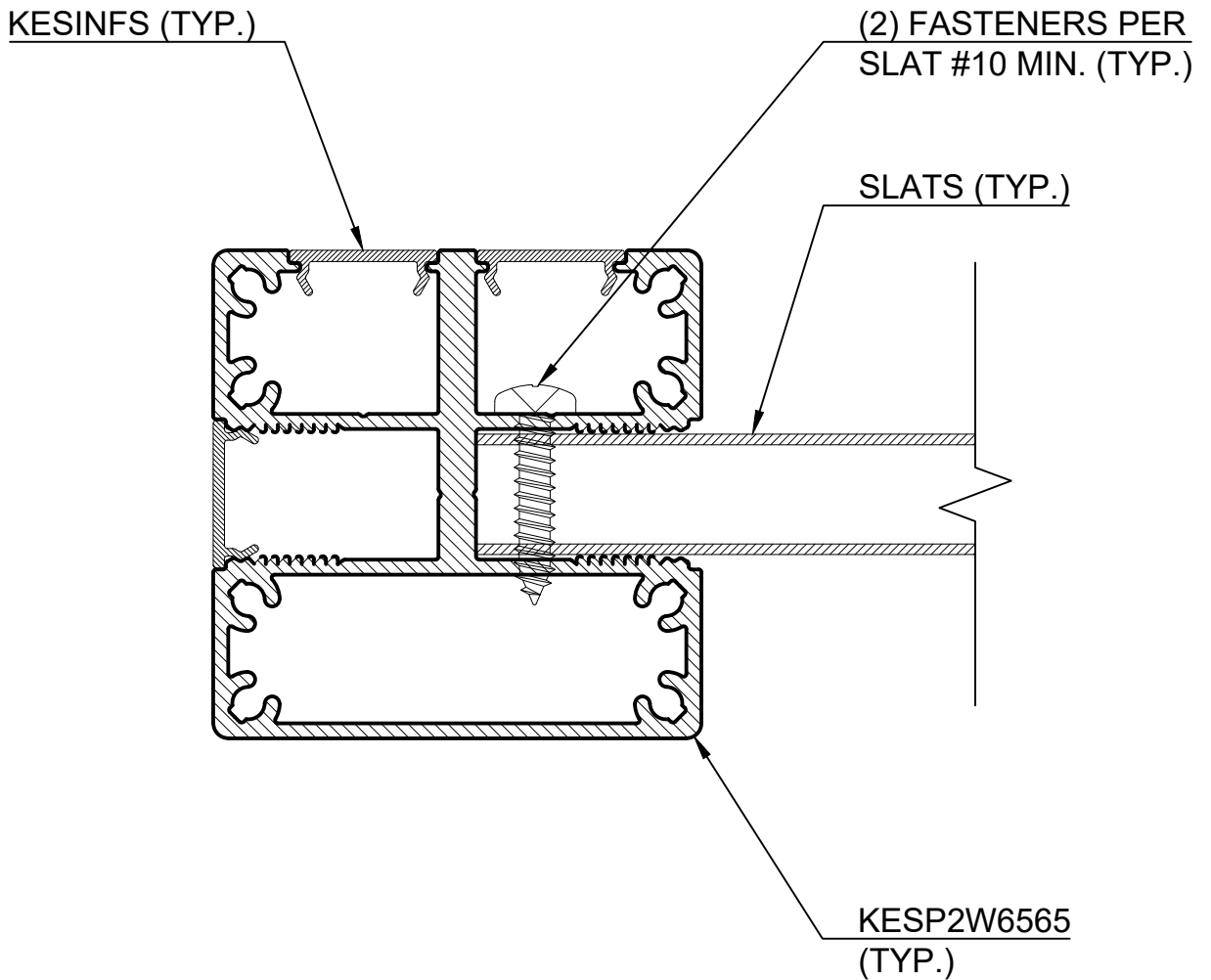
**TYPICAL FASCIA MOUNT RAILING**

## KNOTWOOD TYPICAL DETAILS BALUSTRADE/RAILINGS



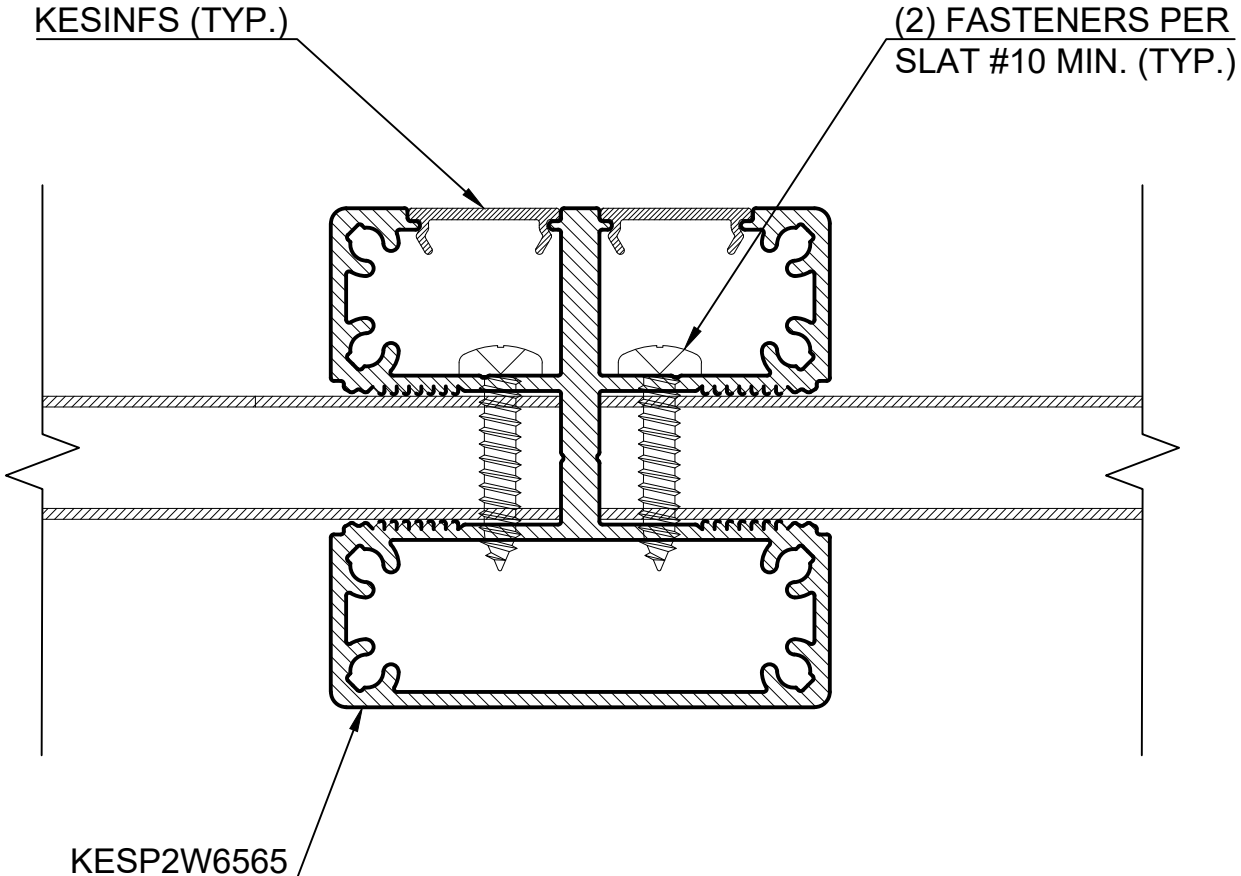
### TYPICAL BALUSTRADE/RAILING SECTION

**KNOTWOOD TYPICAL DETAILS**  
**BALUSTRADE/RAILINGS**



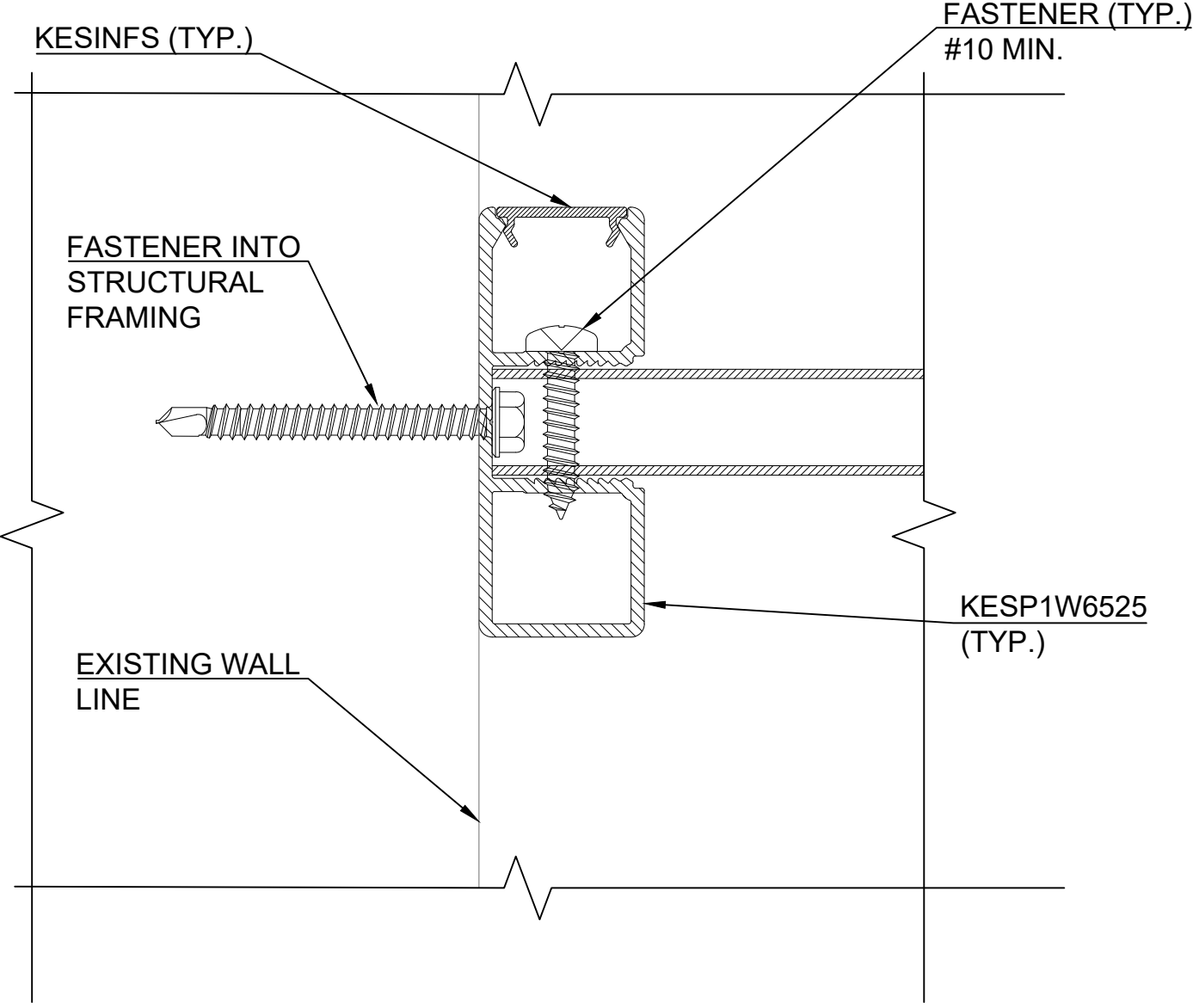
**TYPICAL 2-1/2"X2-1/2" TWO-WAY END POST DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**BALUSTRADE/RAILINGS**



**TYPICAL 2-1/2"X2-1/2" TWO-WAY MIDDLE POST DETAIL**

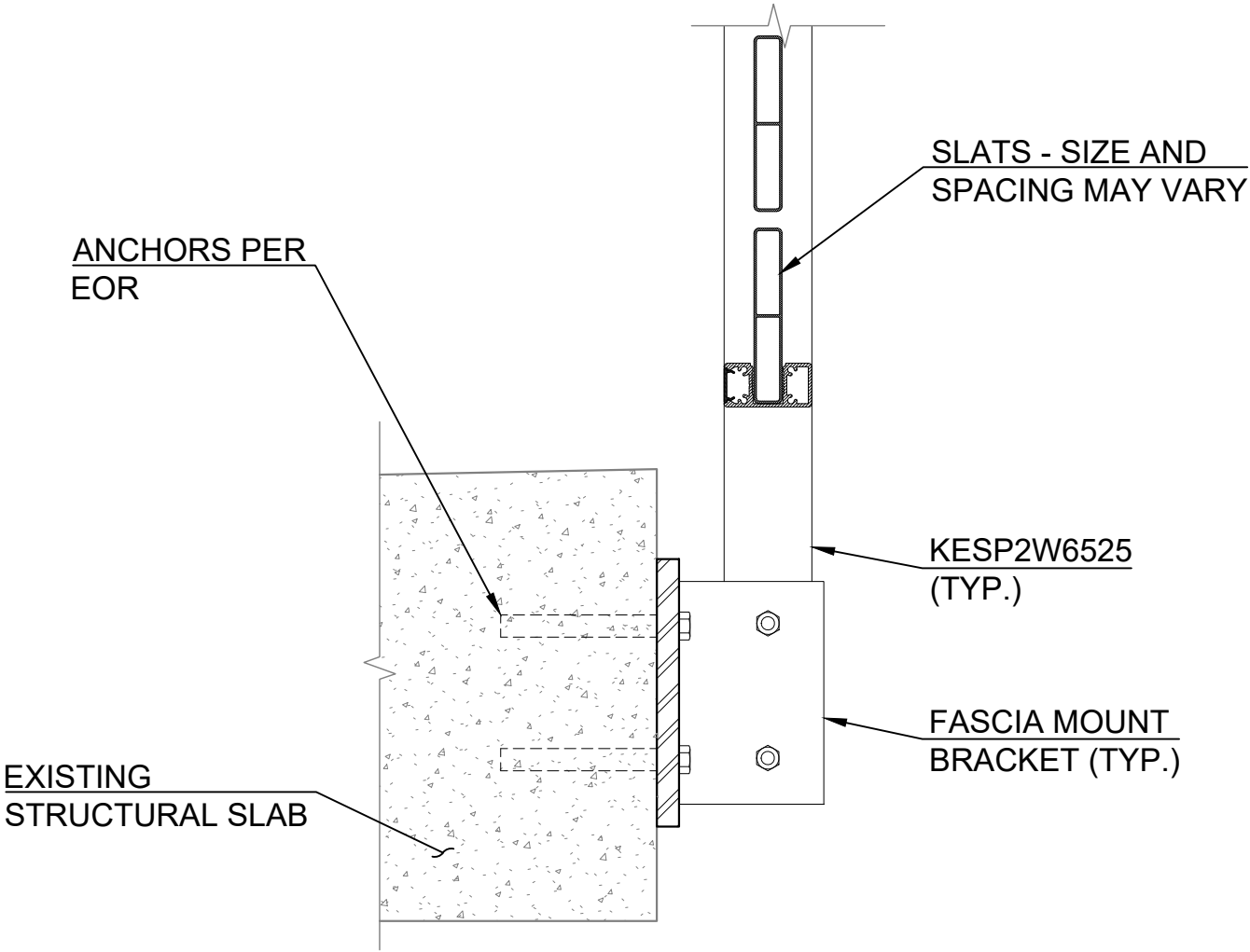
**KNOTWOOD TYPICAL DETAILS**  
**BALUSTRADE/RAILINGS**



**TYPICAL ONE-WAY END POST AT EXISTING WALL**

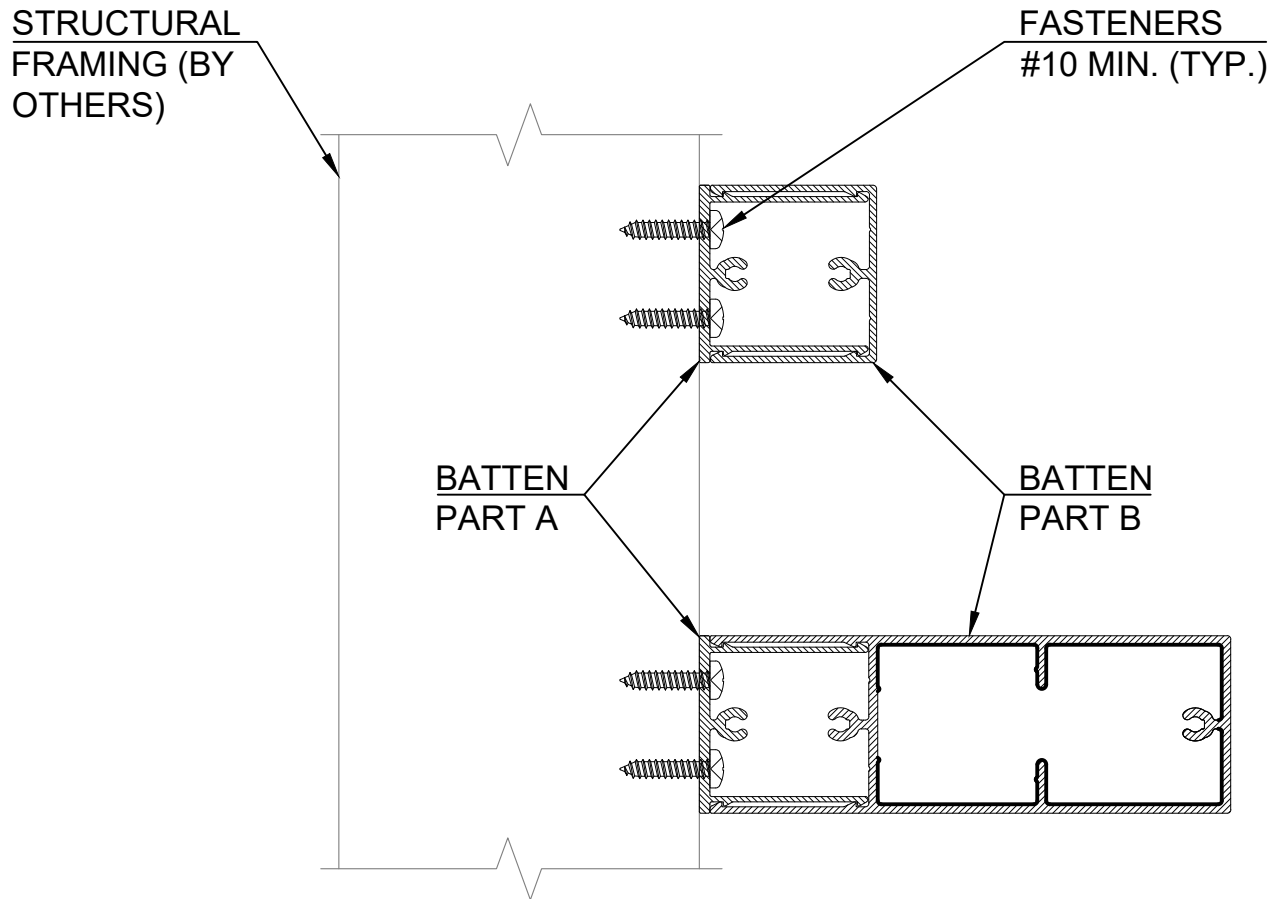


**KNOTWOOD TYPICAL DETAILS**  
**BALUSTRADE/RAILINGS**



**TYPICAL FASCIA MOUNT DETAIL**

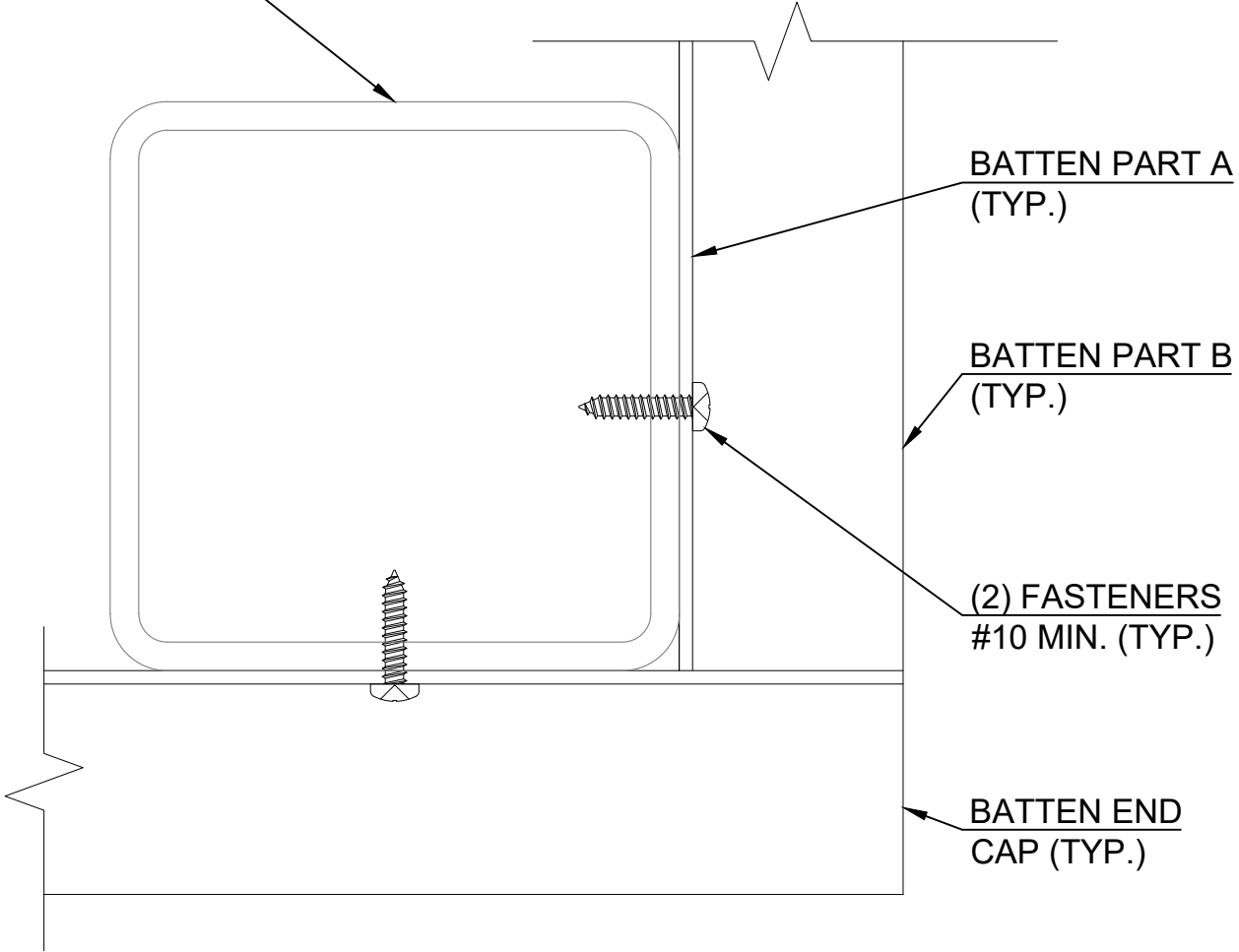
## KNOTWOOD TYPICAL DETAILS BATTENS



### TYPICAL BATTEN CONNECTION DETAIL

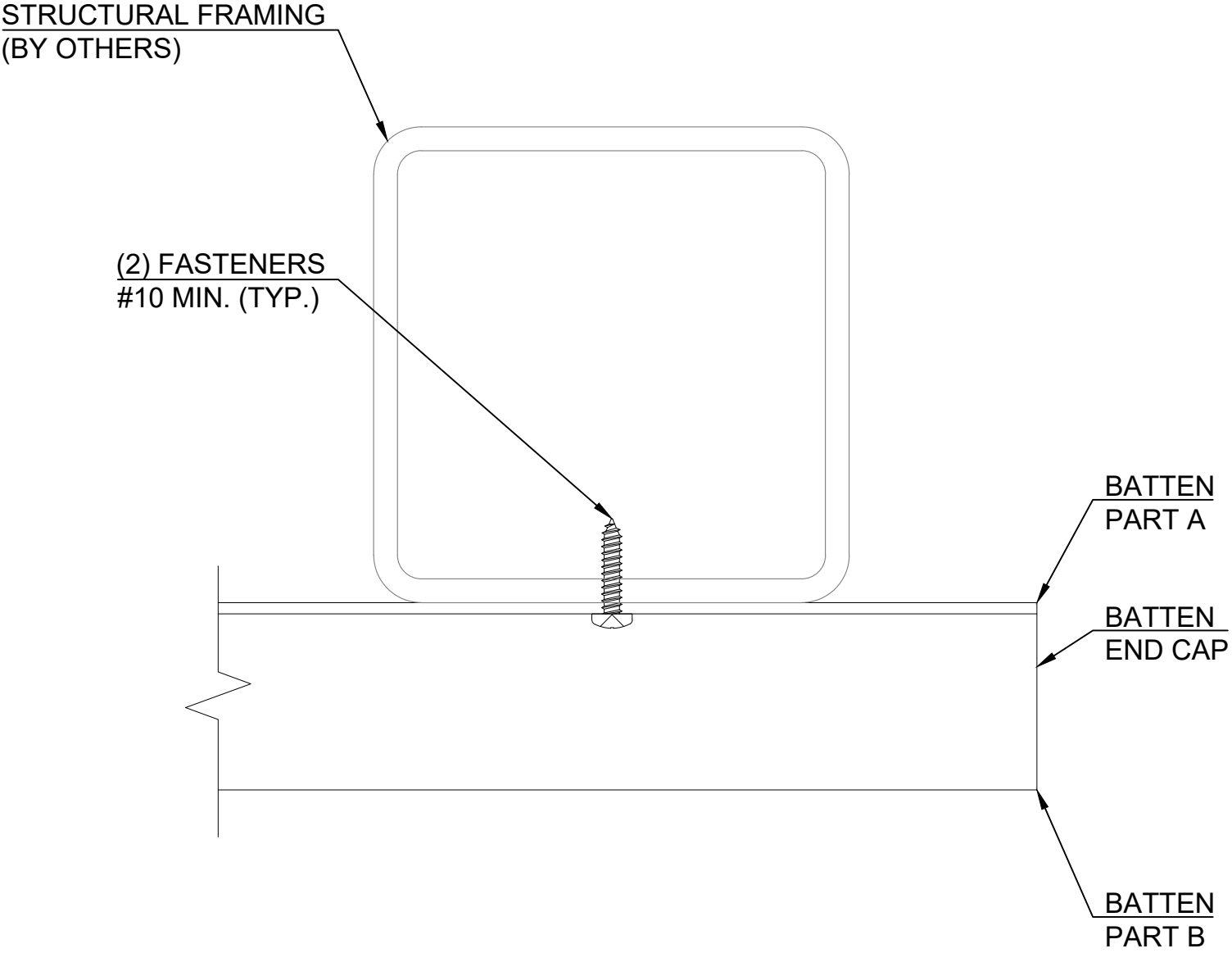
**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**

STRUCTURAL FRAMING  
(BY OTHERS)



**TYPICAL BATTEN CORNER CONNECTION DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**



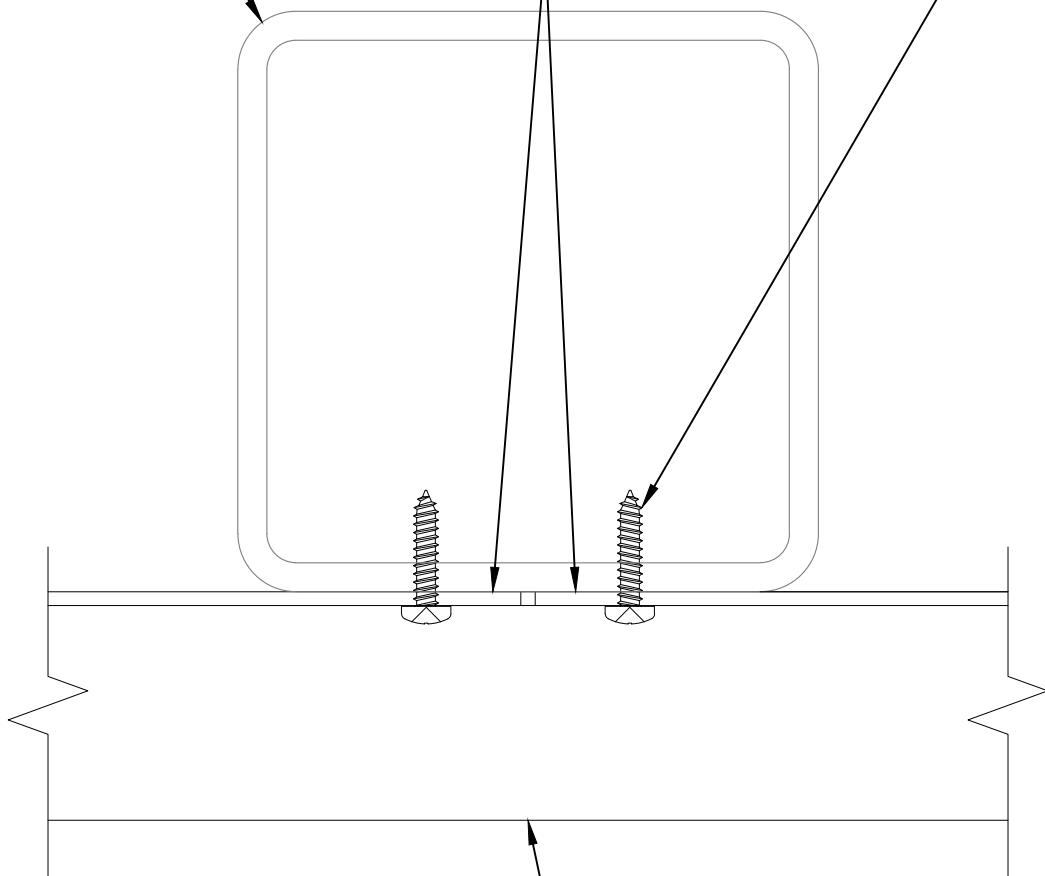
**TYPICAL BATTEN END DETAIL**

**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**

STRUCTURAL FRAMING  
 (BY OTHERS)

BATTEN  
 PART A

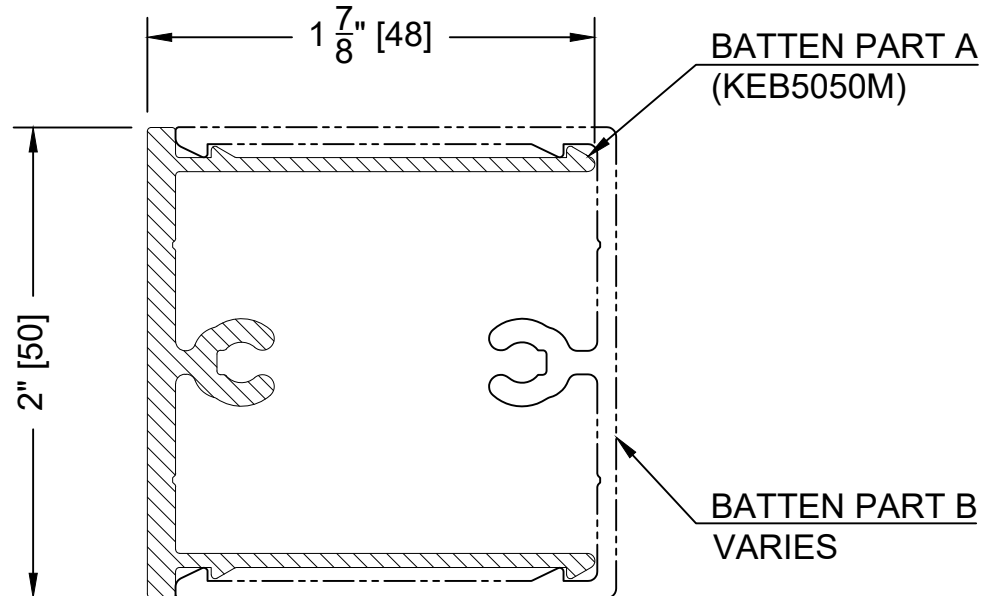
FASTENERS  
 #10 MIN. (TYP.)



BATTEN PART B MAY  
 BE STAGGERED  
 FROM PART A

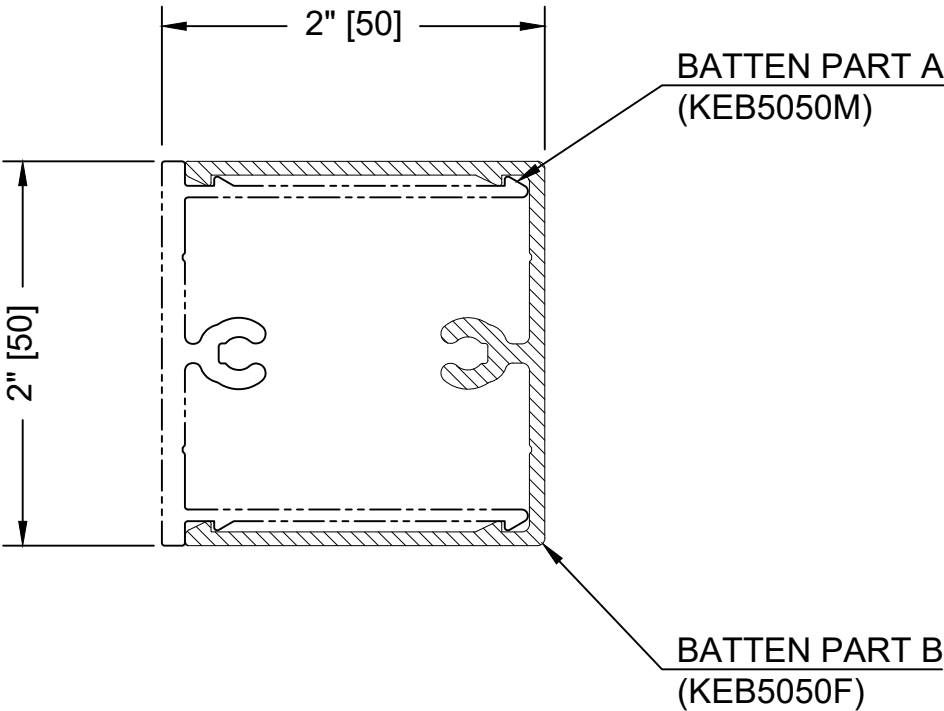
**TYPICAL BATTEN JOINT DETAIL**

## KNOTWOOD TYPICAL DETAILS BATTENS



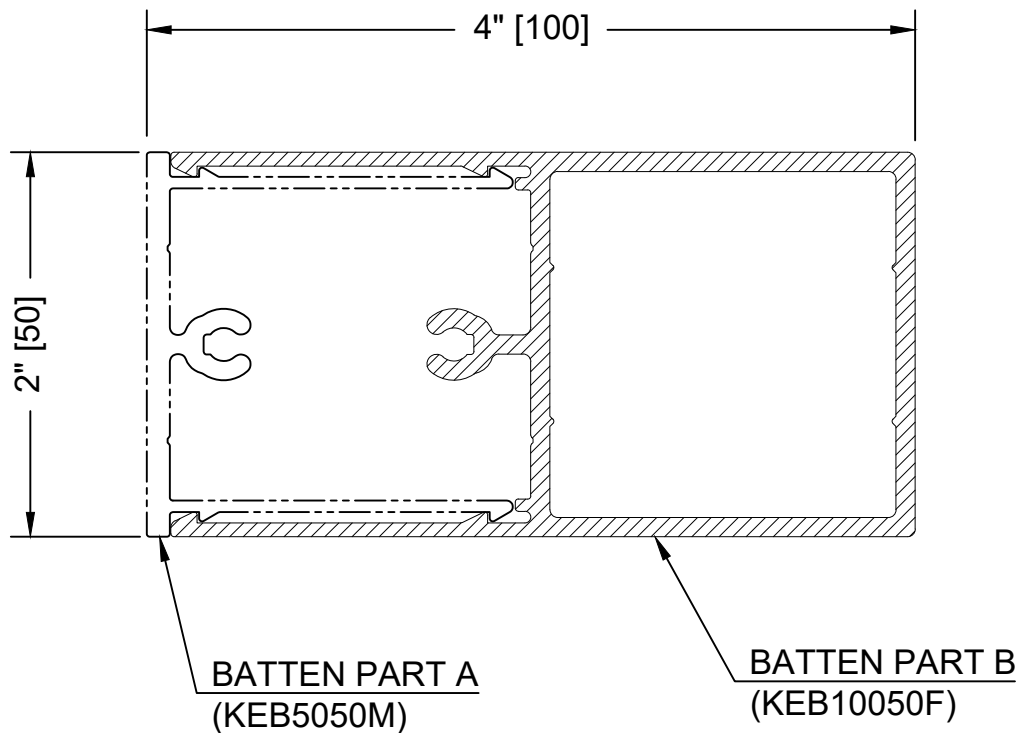
### TYPICAL 2" BATTEN PART A (KEB5050M)

**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**



**TYPICAL 2"X2" BATTEN (KEB5050F)**

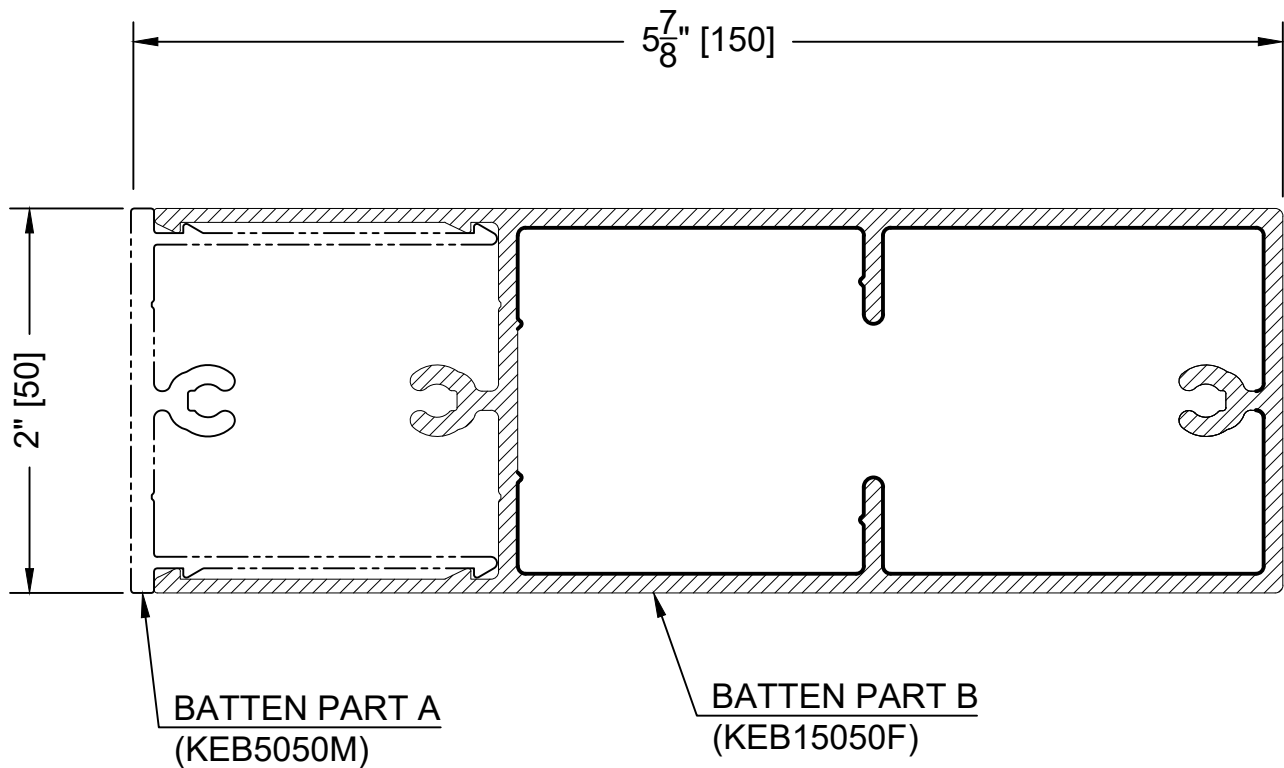
## KNOTWOOD TYPICAL DETAILS BATTENS



### TYPICAL 2"X4" BATTEN (KEB10050F)

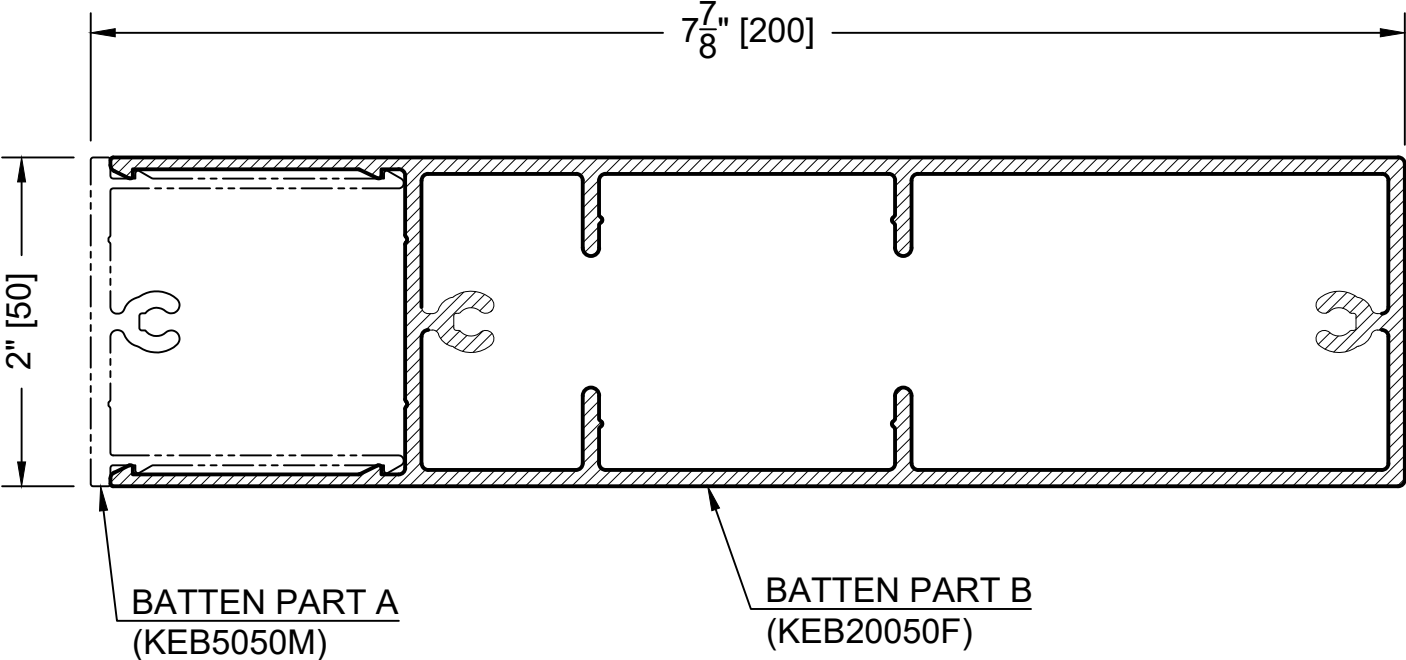


## KNOTWOOD TYPICAL DETAILS BATTENS



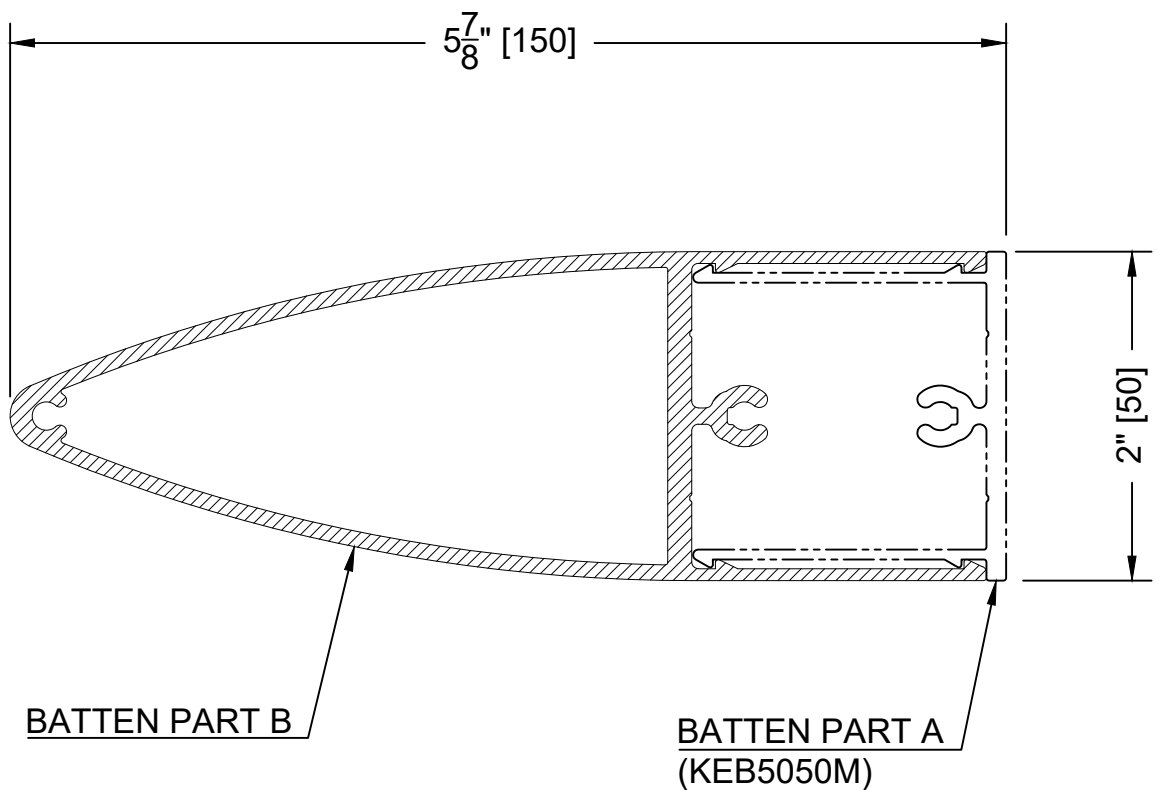
### TYPICAL 2"X6" BATTEN (KEB15050F)

**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**



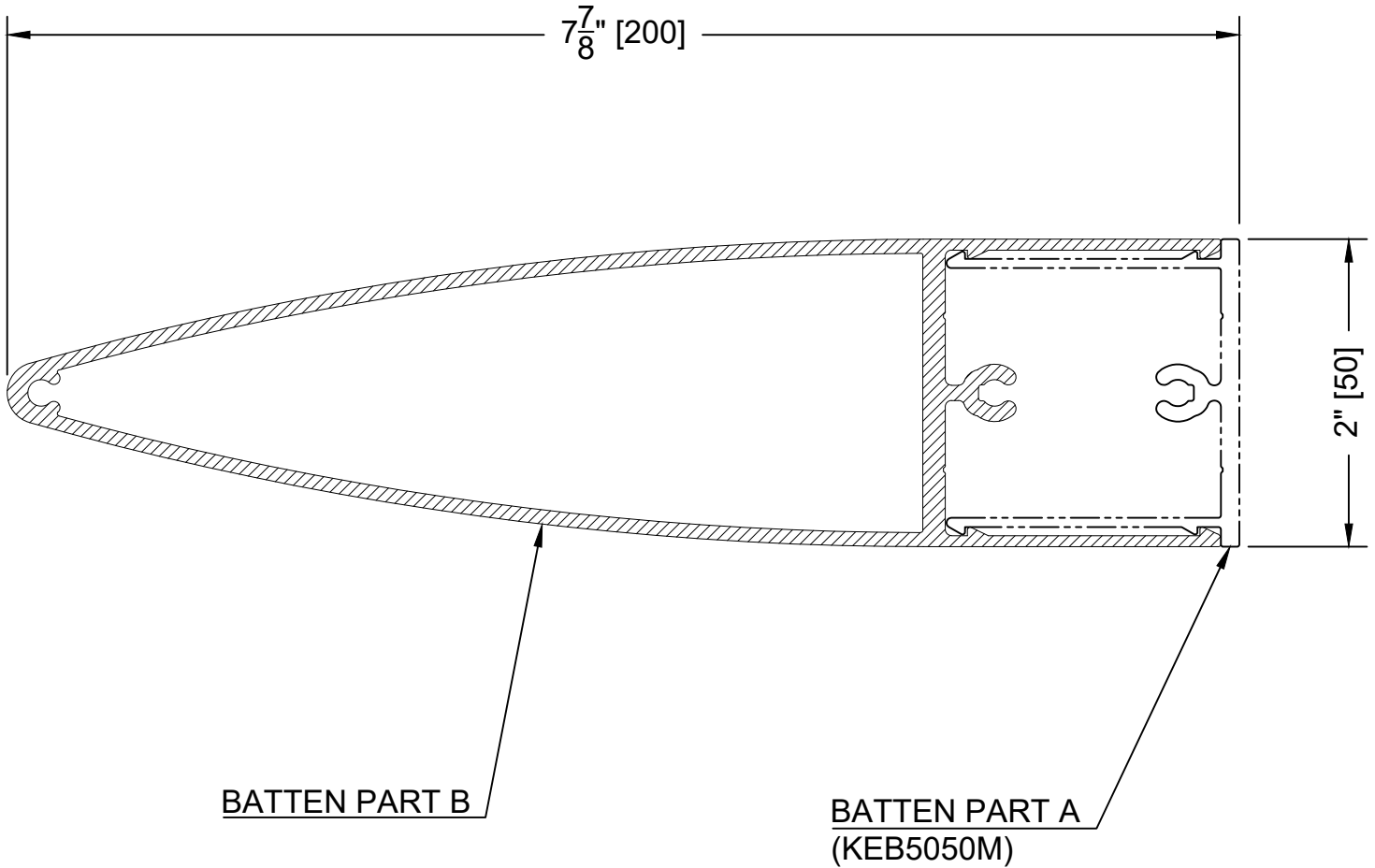
**TYPICAL 2"X8" BATTEN (KEB20050F)**

## KNOTWOOD TYPICAL DETAILS BATTENS



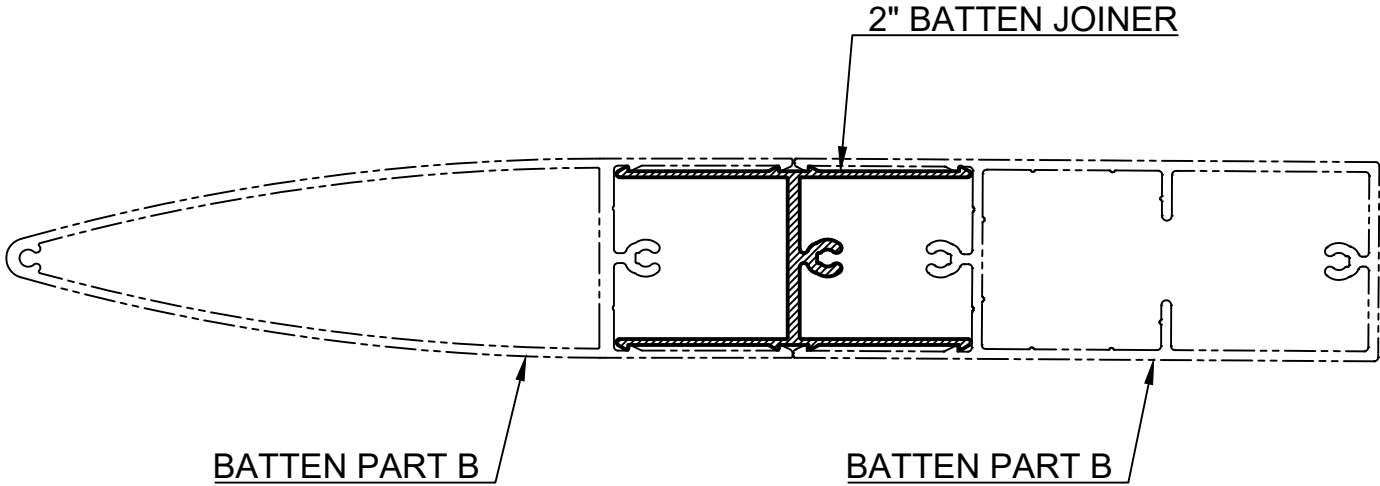
### OPTIONAL 2"X6" ROUNDED BATTEN

**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**



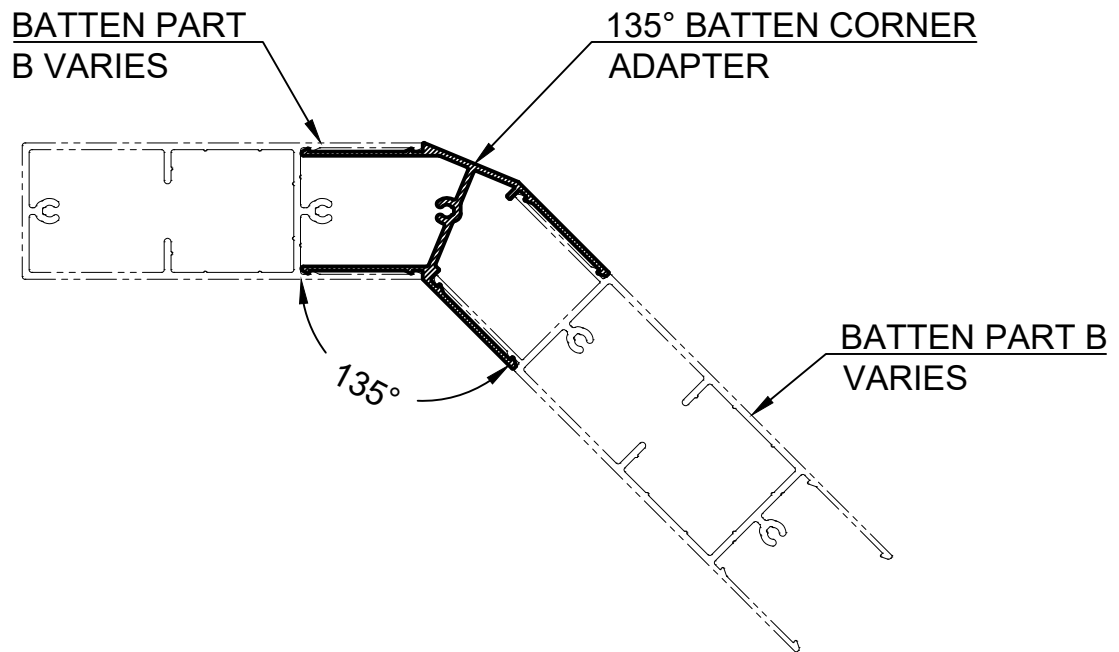
**OPTIONAL 2"X8" ROUNDED BATTEN**

KNOTWOOD TYPICAL DETAILS  
BATTENS



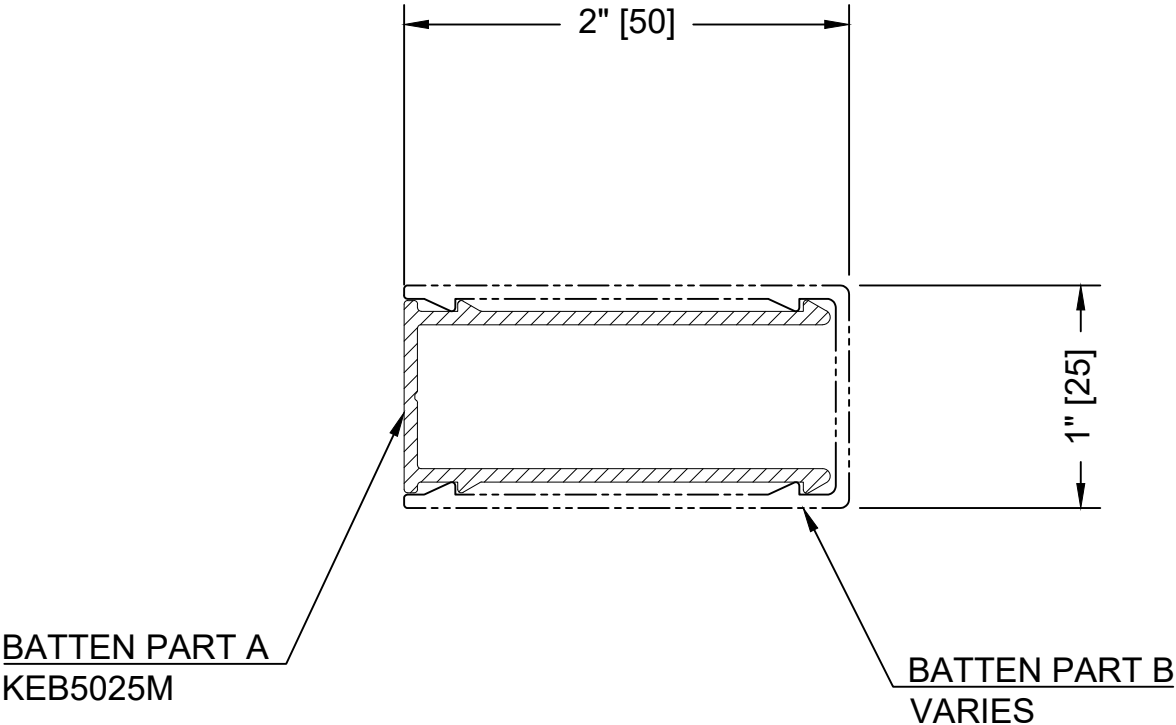
OPTIONAL 2\" BATTEN JOINER

## KNOTWOOD TYPICAL DETAILS BATTENS



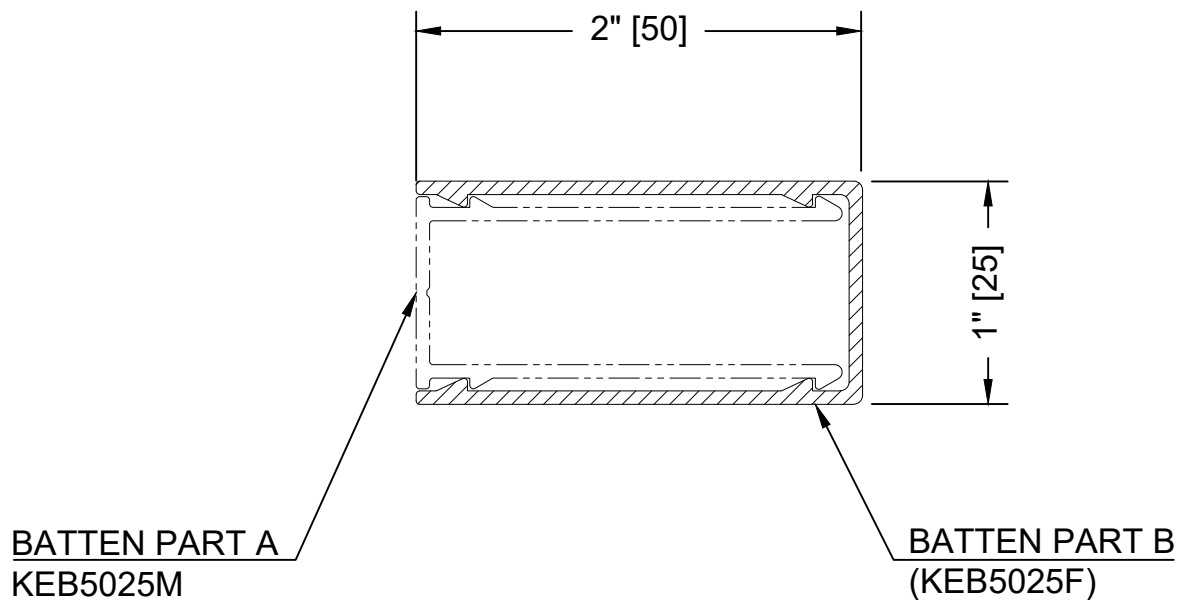
### TYPICAL 2" BATTEN 135° CORNER ADAPTER

**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**



**TYPICAL 1" NARROW BATTEN PART A (KEB5025M)**

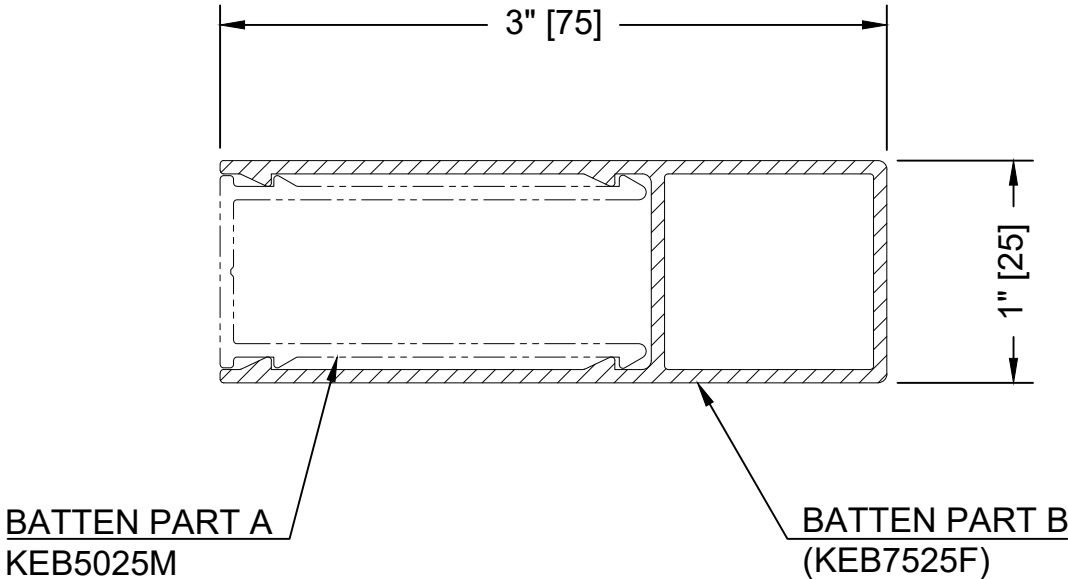
## KNOTWOOD TYPICAL DETAILS BATTENS



### TYPICAL 1"X2" NARROW BATTEN (KEB5025F)

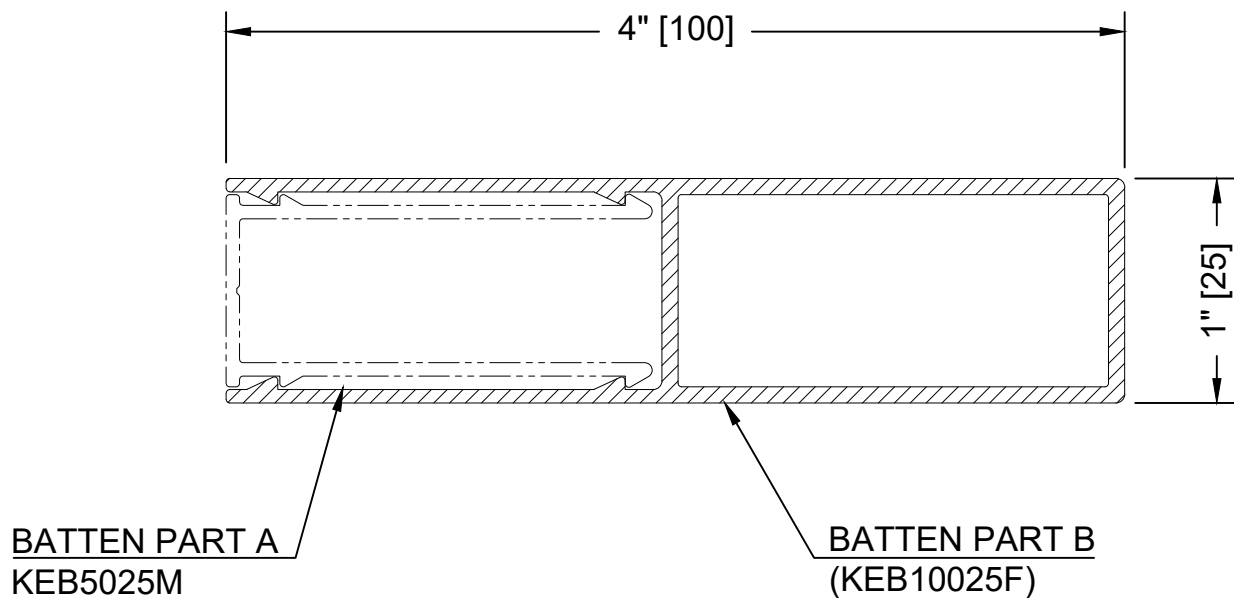


**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**



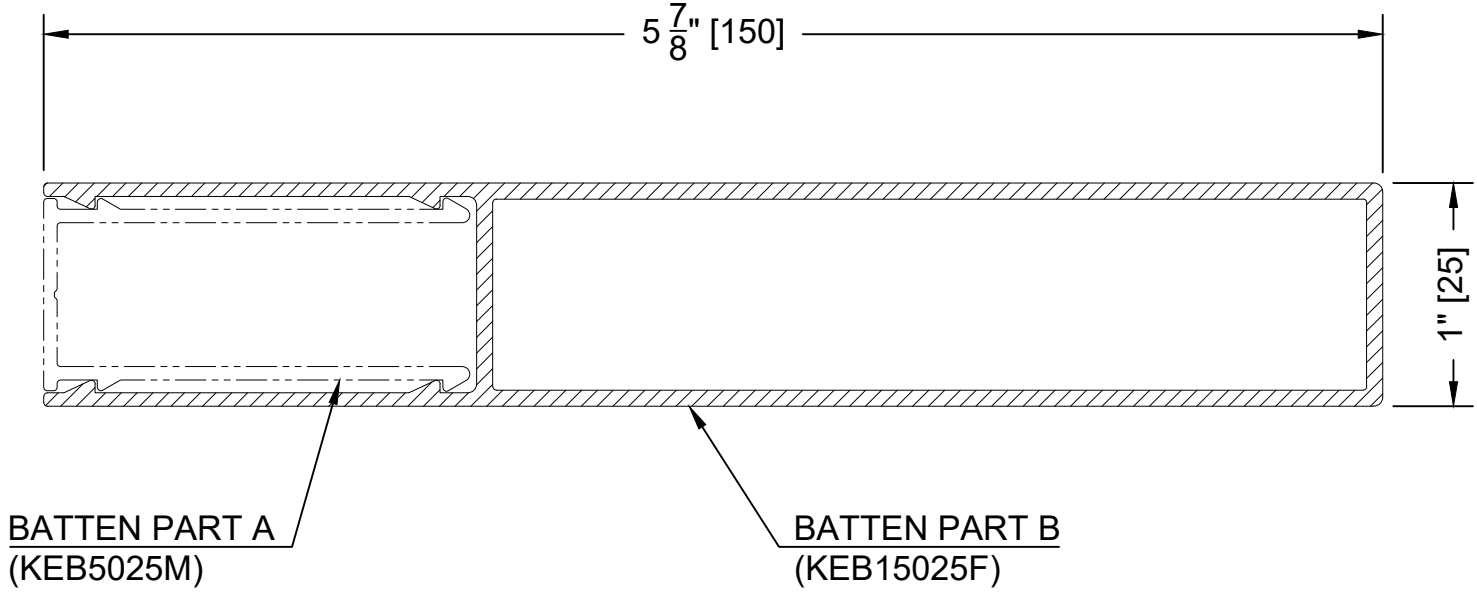
**TYPICAL 1"X3" NARROW BATTEN (KEB7525F)**

## KNOTWOOD TYPICAL DETAILS BATTENS



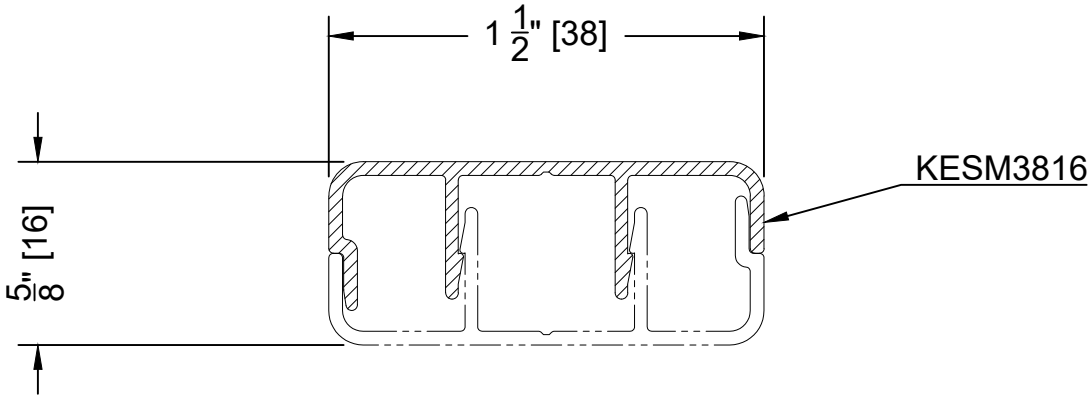
### TYPICAL 1"X4" NARROW BATTEN (KEB10025F)

**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**



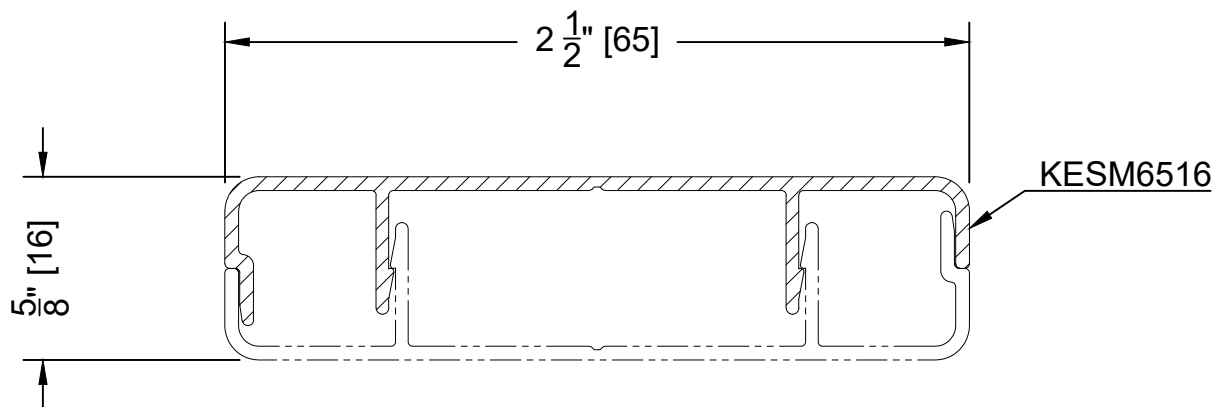
**TYPICAL 1"X6" NARROW BATTEN (KEB15025F)**

**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**



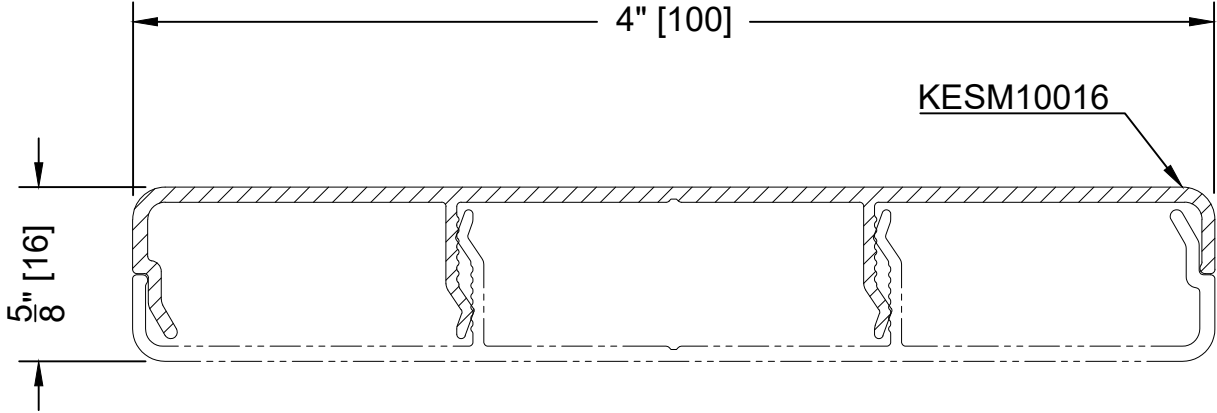
**TYPICAL 1-1/2"X5/8" SELF-MATING BATTEN (KESM3816)**

## KNOTWOOD TYPICAL DETAILS BATTENS



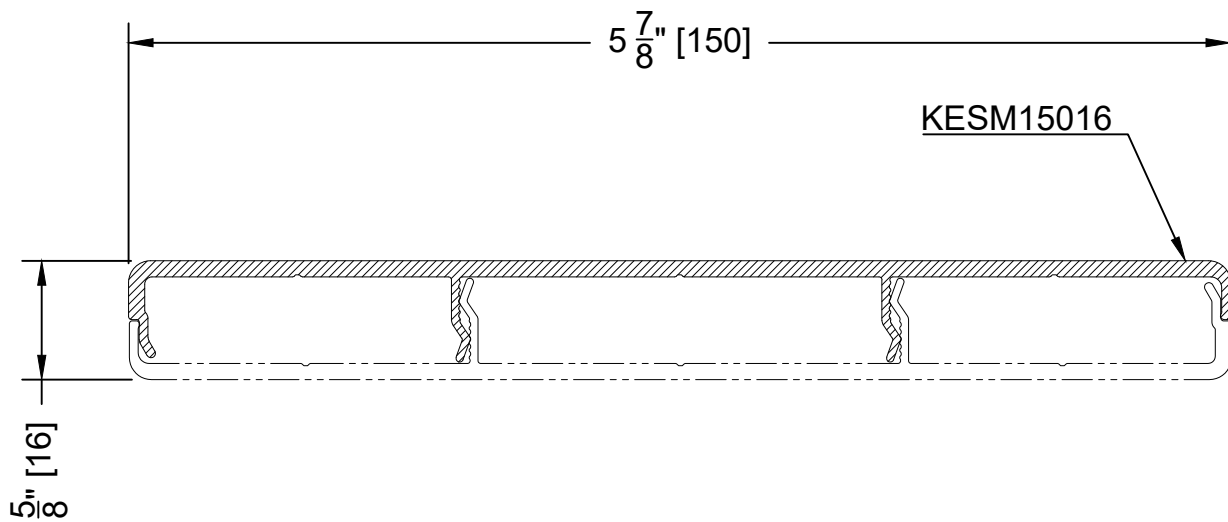
### TYPICAL 2-1/2"X5/8" SELF-MATING BATTEN (KESM6516)

**KNOTWOOD TYPICAL DETAILS**  
**BATTENS**



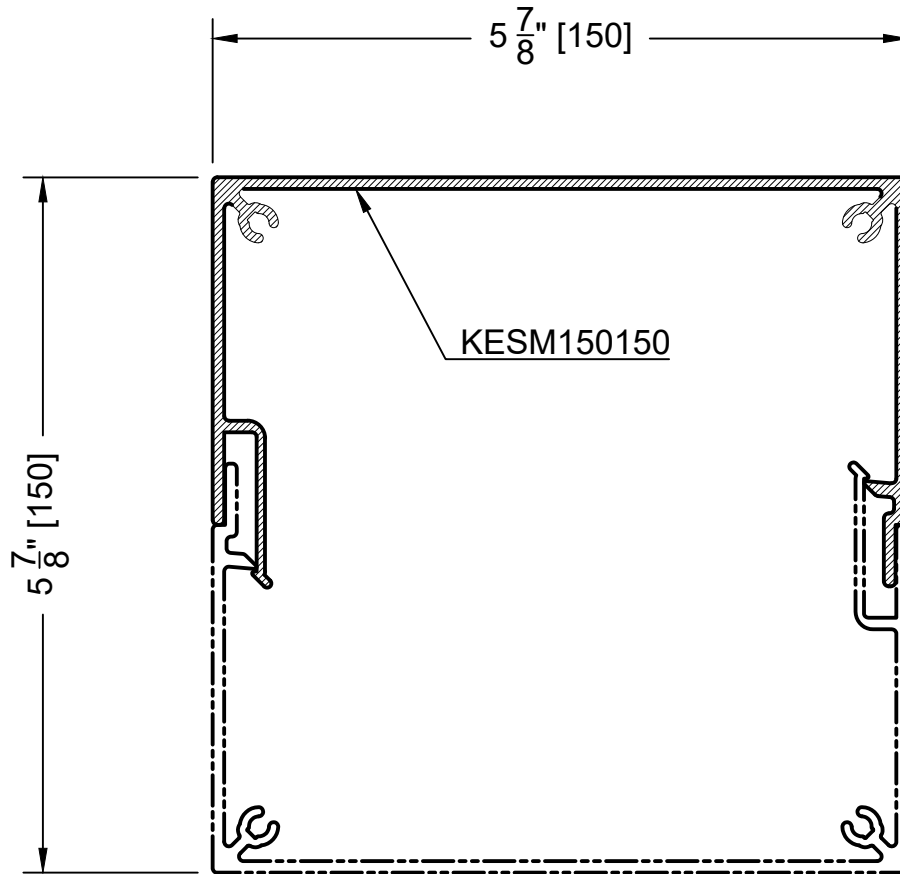
**TYPICAL 4"X5/8" SELF-MATING BATTEN (KESM10016)**

## KNOTWOOD TYPICAL DETAILS BATTENS



### TYPICAL 6" X 5/8" SELF-MATING BATTEN (KESM15016)

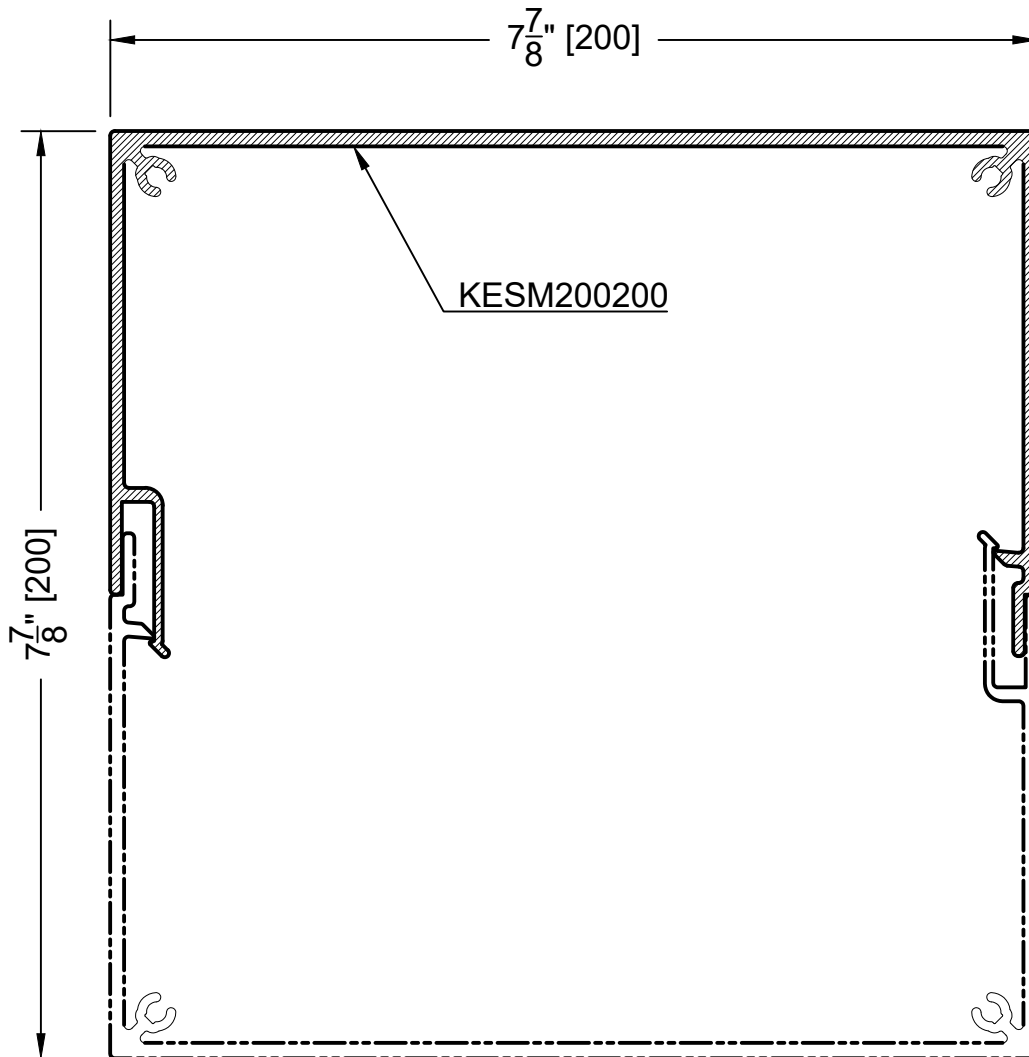
## KNOTWOOD TYPICAL DETAILS BATTENS



### TYPICAL 6"X6" SELF-MATING BATTEN (KESM150150)

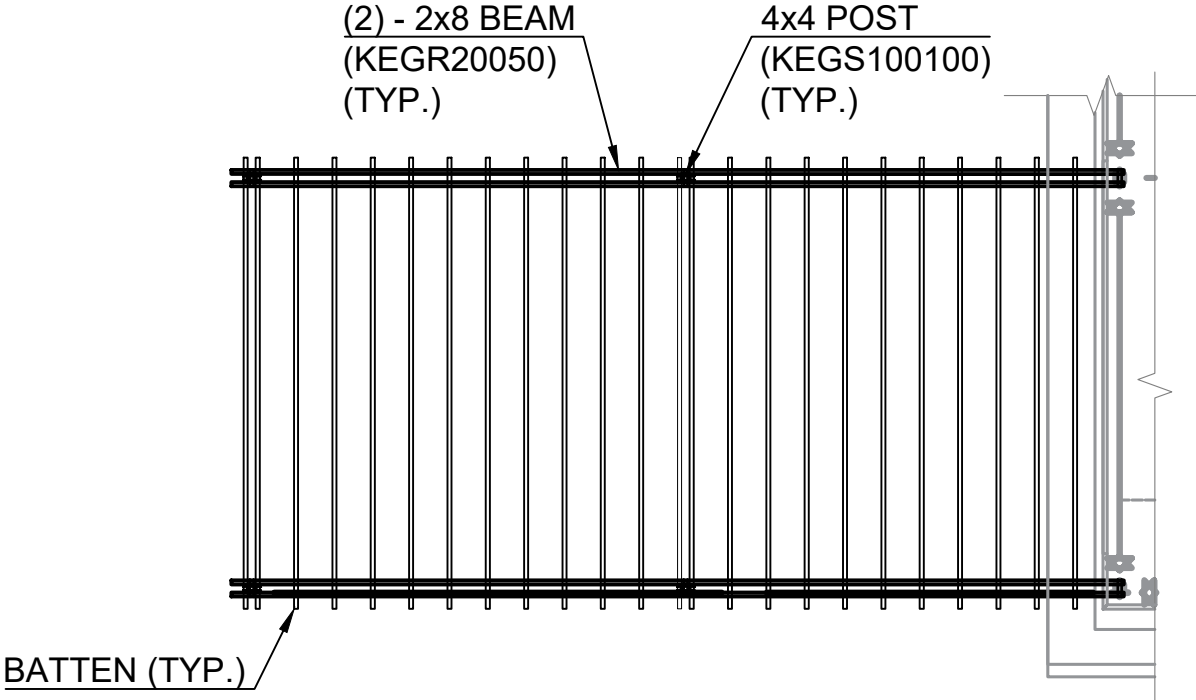


## KNOTWOOD TYPICAL DETAILS BATTENS

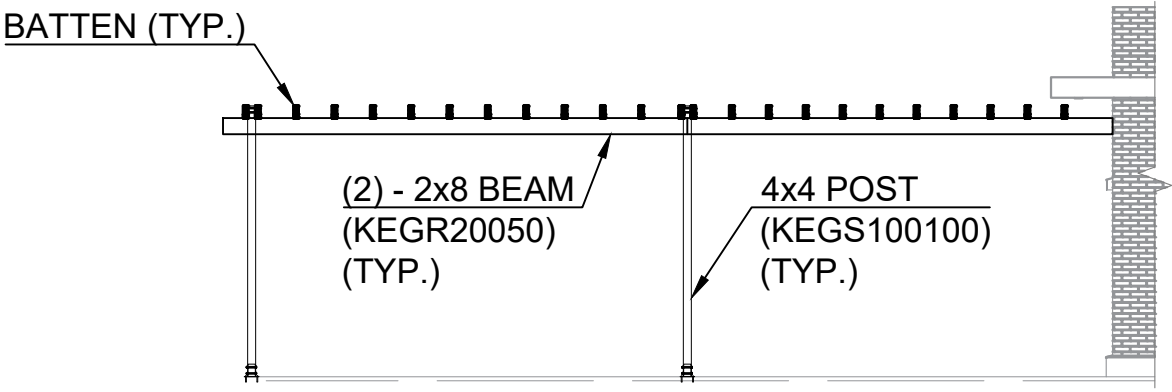


### TYPICAL 8"X8" SELF-MATING BATTEN (KESM200200)

**KNOTWOOD TYPICAL DETAILS**  
**PERGOLAS**



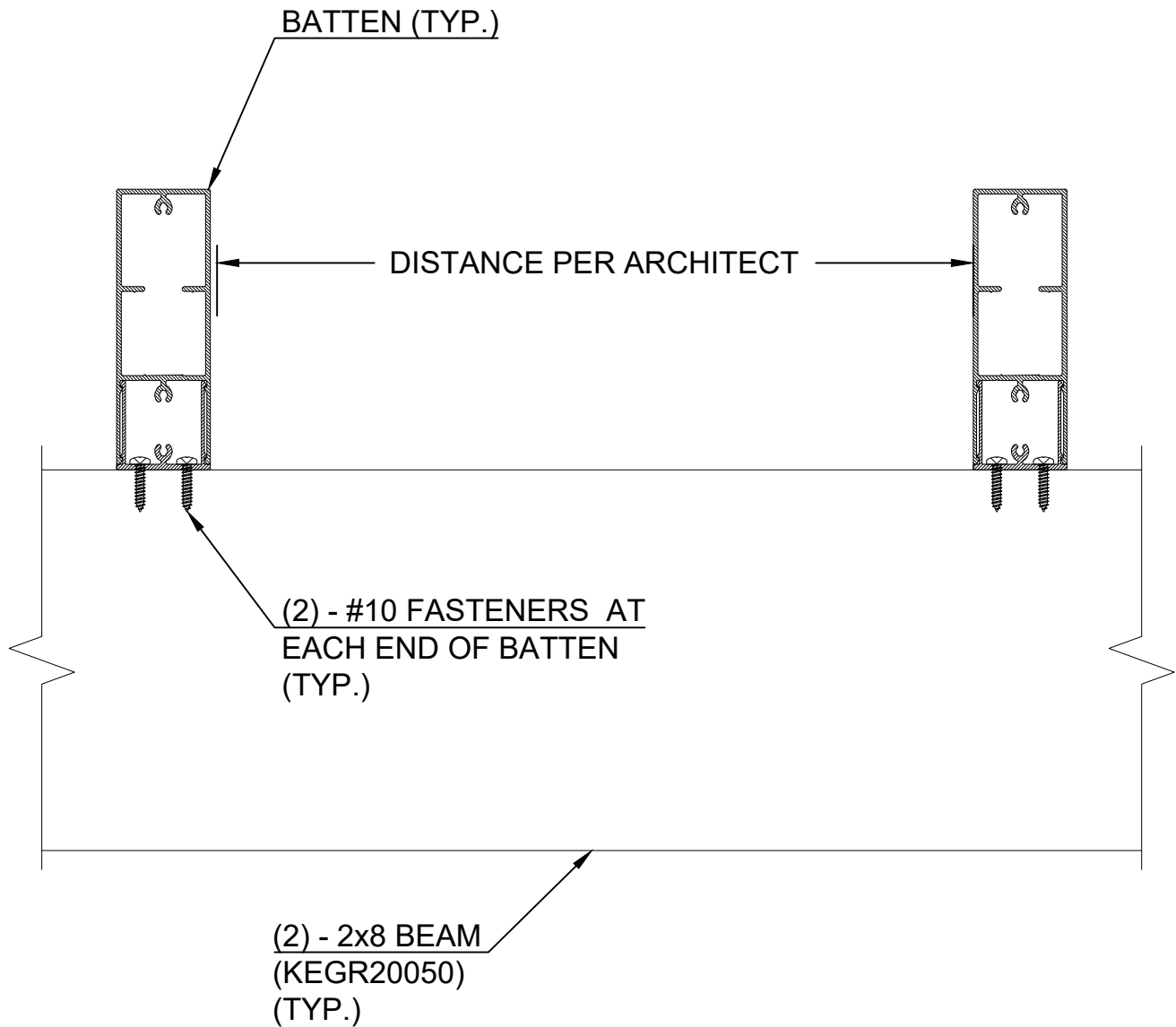
PLAN VIEW



ELEVATION

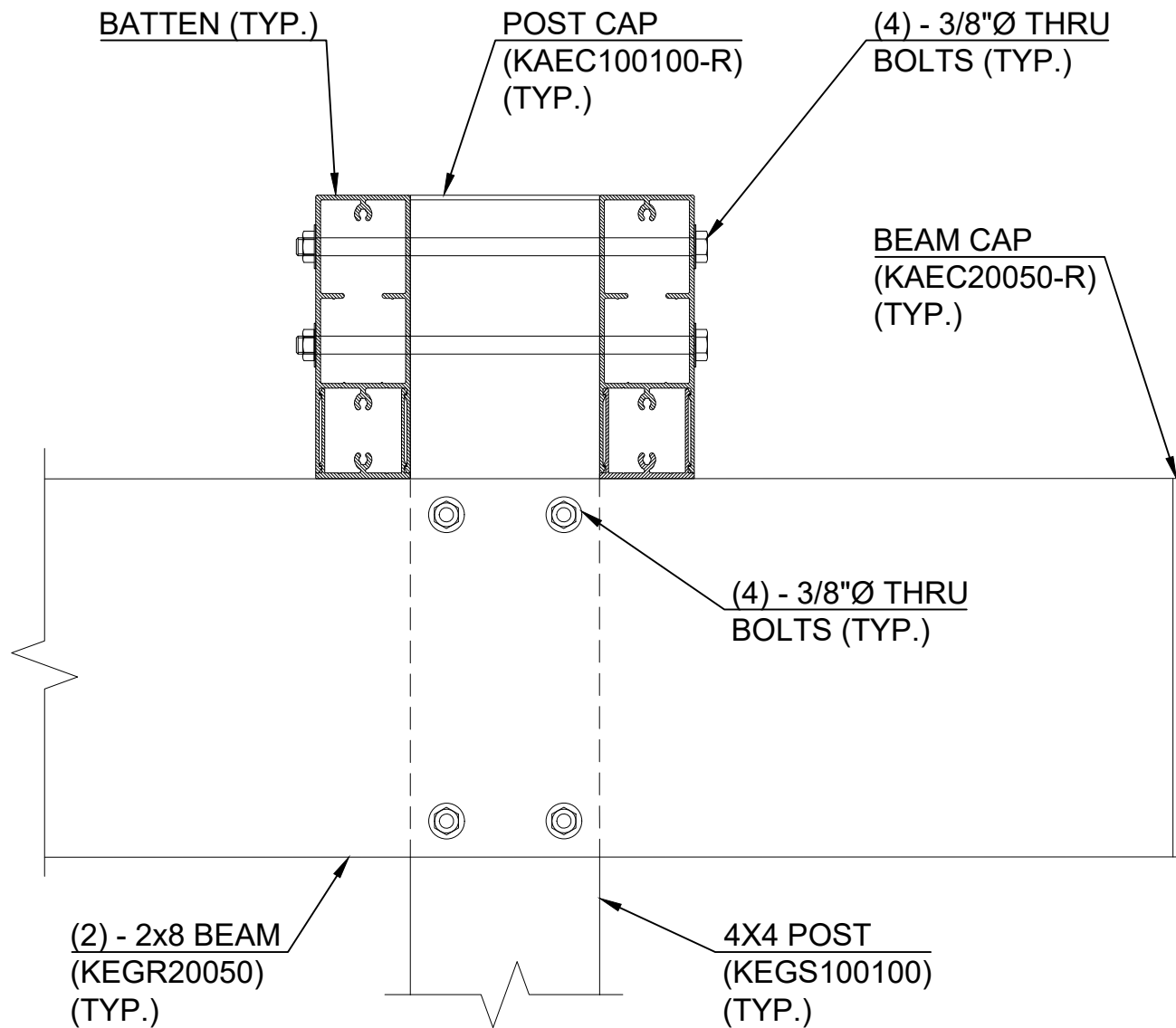
**TYPICAL PERGOLA WITH BUILDING CONNECTION**

**KNOTWOOD TYPICAL DETAILS**  
**PERGOLAS**



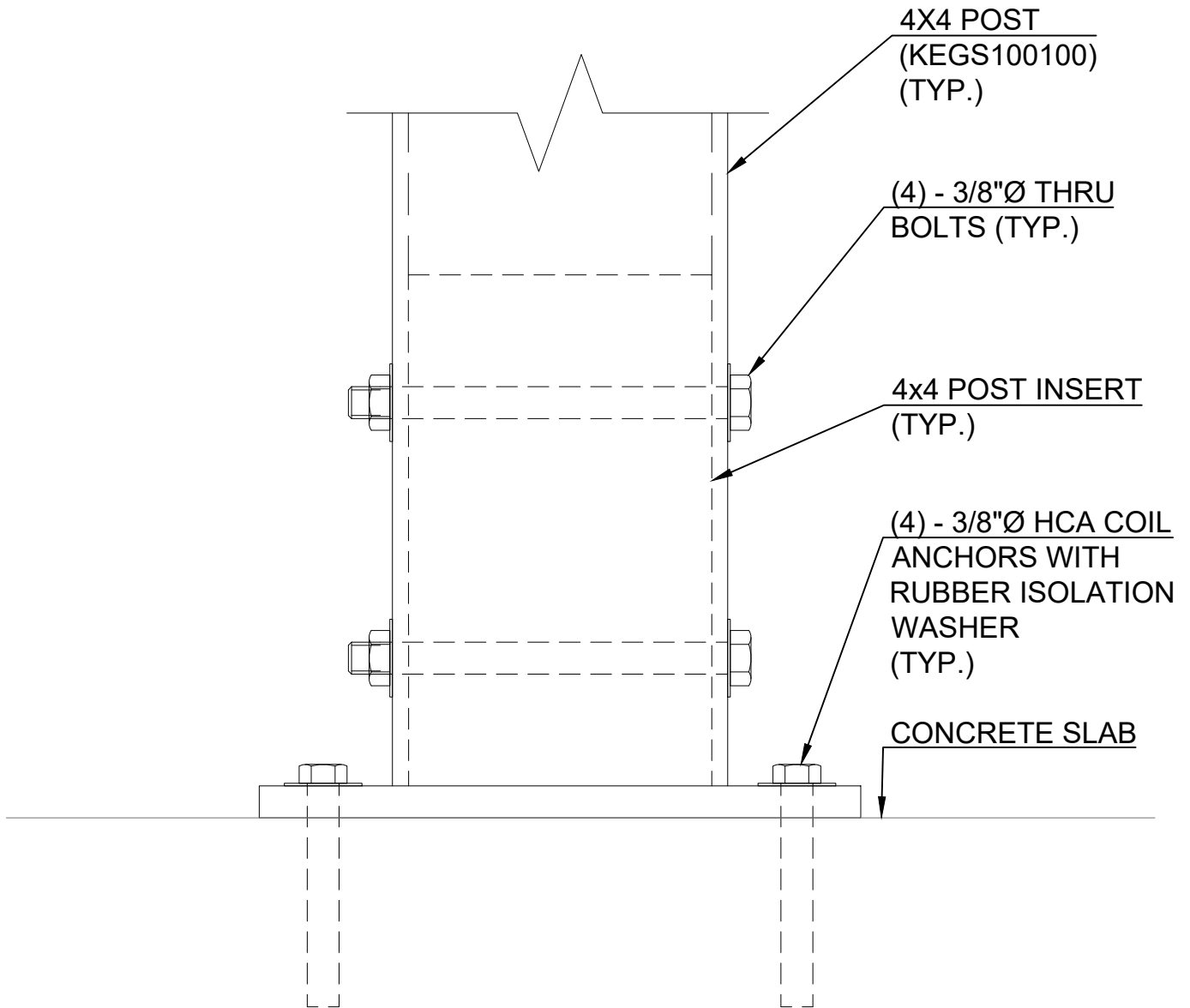
**TYPICAL BATTEN CONNECTION**

## KNOTWOOD TYPICAL DETAILS PERGOLAS



### TYPICAL UPPER POST CONNECTION

**KNOTWOOD TYPICAL DETAILS**  
**PERGOLAS**



**TYPICAL POST BASEPLATE CONNECTION**

## PRODUCT COMPARISON

	DIZAL® (Aluminum)	KNOTWOOD™ (Aluminum)
Material	Aluminum	Marine Grade Aluminum Alloy
Colors	32 Woodgrain Colors + Textures No Solid Colors Advertised	38 Advertised Woodgrain 12 Standard / 48 Spec Order Solid Colors
Finish	Digital Inkjet Printing + Barrier Coating	Base Powder Coating + Woodgrain Sublimation process for long- lasting durability and aesthetics
Plank Versatility	Flat & V-Groove Plank ordered separately – Multiple SKU's	Adjustable Interlocking channel provides reveal or no reveal installation – 1 SKU
Dimensions	16' – Standard cladding length 12' – Trim length	18' 6" - Standard cladding & trim length
Installation	Bottom Up Install Only	Top Down OR Bottom Up Install
Installation Process	Direct to wall with screws (limited ability to manage thermal expansion)	Specially designed “Clip” (allows thermal expansion without warping or buckling)
Thermal Expansion	Fasten screws into fixed slot 16” OC, controlled tightening to leave 1/16” gap to allow for expansion/contraction (difficult to monitor, labor intensive, & no drainage)	Fasten with screw 32” OC into custom Knotwood™ clips provided - clip allows for thermal expansion/contraction & drainage
Systems	Cladding, Battens	Cladding, Decking, Fencing, Railing, Screening, Battens, Gates, Enclosures,
Warranty	Limited Lifetime – Extrusions 15 years – Color & Finish ( <u>Not Warranted</u> in coastal/salt water environments)	Limited Lifetime – Extrusions 15 years - Sublimated Woodgrain Finish 20 years – Solid Colors ( <u>Warranted</u> in coastal/salt water environments )

### Some of the benefits confirmed by various installers of Knotwood™ Cladding...

- Lower installation labor costs • Single person installation • Easy ground level damage replacement • Adjustable gap reveal for desired look and moisture resistance • Knotwood™ is available in other systems that can match same color of siding/cladding



Awnings



Pergolas



Fencing



Gates



Soffits



Enclosures



Screens



Cladding



Balustrades



Decking



Battens



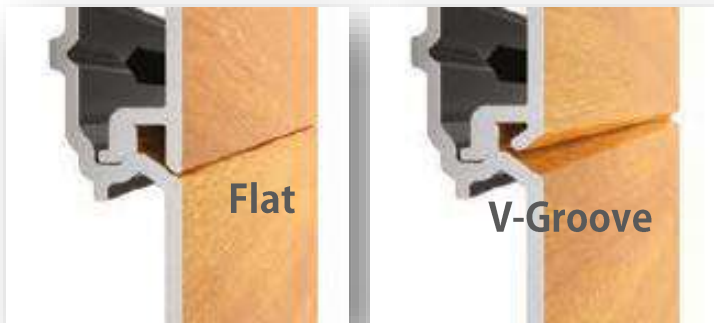
Railings

# DIZAL®

# KNOTWOOD™

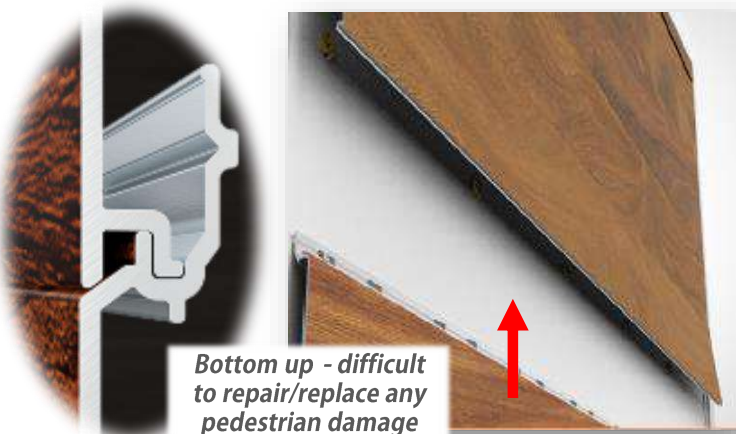
[2] SKU  
(Flat & Groove)  
• Order Separately •

[1] SKU  
Adjustable Interlocking  
Channel



Tongue & Groove  
• Bottom Up Install Only •

Interlocking  
• Top Down or Bottom Up Install •



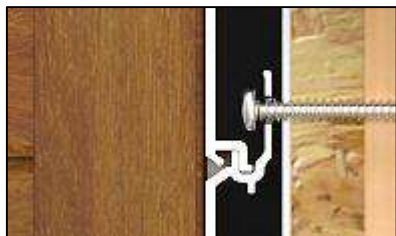
*Bottom up - difficult to repair/replace any pedestrian damage*



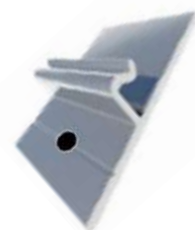
Direct fasten to wall through slotted hole - leave 1/16" gap between screw & cladding for expansion movement.

Fasten using specially designed clip system provided

*Direct fastening reduces ability for any moisture/condensation to drain from behind*



*Slower install process & difficult to control screw tension - if too tight cladding can not expand & can buckle.*



*Clip allows for thermal expansion movement & keeps cladding off the wall allowing drainage if needed*



PANELBOARD: DP1

LOCATION: ELECTRICAL 121 VOLTS: 480/277 Wye SCRR RATING: 42k
SUPPLY FROM: PHASES: 3 MAINS TYPE: MCB
MOUNTING: SURFACE WIRES: 4 MCB RATING: 500 A
ENCLOSURE: TYPE 1

NOTES:
PANEL BOARD RATED AT 600A.

Table with columns: IDENTIFICATION, WIRE, POLE, AMP, CKT, A, B, C, A, B, C, AMP, POLE, WIRE, IDENTIFICATION. Includes entries for DP2, RTU-1, EF-2, CUH-1, EDH-1 DUCT HEATER-SHOWER 114.

BRANCH PANEL: PP1

LOCATION: MECHANICS SHOP 307 VOLTS: 120/208 Wye SCRR RATING: 22k
SUPPLY FROM: PHASES: 3 MAINS TYPE: MLO
MOUNTING: SURFACE WIRES: 4 MCB RATING: 400 A
ENCLOSURE: TYPE 1

NOTES:
1. PANEL TO HAVE SEPERATE GROUND AND NEUTRAL BUSSES.

Table with columns: IDENTIFICATION, WIRE, POLE, AMP, CKT, A, B, C, A, B, C, AMP, POLE, WIRE, IDENTIFICATION. Includes entries for RECEPT-TIRE BALANCER, RECEPT-TIRE MACHINE, RECEPT-MECHANICS SHOP 307, etc.

BRANCH PANEL: LP1

LOCATION: SOUTH GARAGE 311 VOLTS: 480/277 Wye SCRR RATING: 22k
SUPPLY FROM: PHASES: 3 MAINS TYPE: MCB
MOUNTING: SURFACE WIRES: 4 MCB RATING: 200 A
ENCLOSURE: TYPE 1

NOTES:
1. PANEL TO HAVE SEPERATE GROUND AND NEUTRAL BUSSES.

Table with columns: IDENTIFICATION, WIRE, POLE, AMP, CKT, A, B, C, A, B, C, AMP, POLE, WIRE, IDENTIFICATION. Includes entries for LIGHTS-WORK BAY 311, LIGHTS-MECHANICS SHOP 307, LIGHTS-NORTH GARAGE 201, etc.

BRANCH PANEL: PP2

LOCATION: ELECTRICAL 121 VOLTS: 120/208 Wye SCRR RATING: 22k
SUPPLY FROM: PHASES: 3 MAINS TYPE: MCB
MOUNTING: SURFACE WIRES: 4 MCB RATING: 200 A
ENCLOSURE: TYPE 1

NOTES:

Table with columns: IDENTIFICATION, WIRE, POLE, AMP, CKT, A, B, C, A, B, C, AMP, POLE, WIRE, IDENTIFICATION. Includes entries for RECEPT-CROCK POT RM 130, RECEPTS-OFFICE 123, RECEPTS-COPYSTORAGE 127, etc.

BRANCH PANEL: EM

LOCATION: SOUTH GARAGE 311 VOLTS: 120/208 Wye SCRR RATING: 10k
SUPPLY FROM: PHASES: 3 MAINS TYPE: MCB
MOUNTING: SURFACE WIRES: 4 MCB RATING: 100 A
ENCLOSURE: TYPE 1

NOTES:
1. PANEL TO HAVE SEPERATE GROUND AND NEUTRAL BUSSES.

Table with columns: IDENTIFICATION, WIRE, POLE, AMP, CKT, A, B, C, A, B, C, AMP, POLE, WIRE, IDENTIFICATION. Includes entries for RECEPT-I.T. 131, RECEPTS-OFFICE 123, RECEPTS-TRAINING A & B, etc.

PANELBOARD: DP2

LOCATION: ELECTRICAL 121 VOLTS: 120/208 Wye SCRR RATING: 22k
SUPPLY FROM: PHASES: 3 MAINS TYPE: MCB
MOUNTING: SURFACE WIRES: 4 MCB RATING: 400 A
ENCLOSURE: TYPE 1

NOTES:

Table with columns: IDENTIFICATION, WIRE, POLE, AMP, CKT, A, B, C, A, B, C, AMP, POLE, WIRE, IDENTIFICATION. Includes entries for EM, PP4.

BRANCH PANEL: PP3

LOCATION: VOLTS: 120/208 Single SCRR RATING: 10k
SUPPLY FROM: PHASES: 1 MAINS TYPE: MLO
MOUNTING: SURFACE WIRES: 3 MCB RATING: 1 A
ENCLOSURE: TYPE 1

NOTES:
1. BOND PANEL TO GAS LINE IN WARM STORAGE AND INSTALL 5/8" X 8" GROUND ROD. CONDUCTOR SIZE PER NEC. PANEL TO HAVE SEPERATE GROUND AND NEUTRAL BUSSES.

Table with columns: IDENTIFICATION, WIRE, POLE, AMP, CKT, A, B, C, A, B, C, AMP, POLE, WIRE, IDENTIFICATION. Includes entries for 208V RECEPT, COLD STORAGE, RECEPTS-HEATED STORAGE, etc.

LIGHTING FIXTURE SCHEDULE

SCHEDULE NOTES:
1. PROVIDE POWER TO ALL NECESSARY DEVICES FOR A FULLY FUNCTIONING LIGHTING SYSTEM.
2. PROVIDE POWER FOR WIRELESS ACCESS POINTS AS NEEDED.
3. PROVIDE ADDRESSABLE SWITCHPACKS AS NEEDED FOR A FULLY FUNCTIONING SYSTEM.

Table with columns: TYPE, DESCRIPTION, MFR., CATALOG #, LAMPS, WATTS, NOTES. Includes entries for CL1 COVE LIGHTING, CL2 COVE LIGHTING, FL1 FLOOD LIGHT, HB1 HIGH BAY, etc.

LIGHTING CONTROL SCHEDULE - MAIN BUILDING

Table with columns: SCHEME NO., MANUAL ON, DIMMING, NO. OF SCENES, MULTIPLE ZONES, DAYLIGHTING, OCCUPANCY SENSOR, VACANCY SENSOR, ORDER OF OPERATION. Includes entries for 1, 2, 3, 4, 5, 6, 7, 8.

NOTE: WALL MOUNTED WORK LIGHTS IN GARAGE AREAS TO BE MANUAL ON/OFF AND TO BE CONTROLLED BY THEIR OWN SWITCH. SWITCHES FOR THESE TO BE INDUSTRIAL RATED.

FLOOR BOX SCHEDULE

Table with columns: TYPE, MANUFACTURER, MODEL #, COVER PLATE MODEL #, COMMENTS. Includes entry for FB1 HUBBELL.

BRANCH PANEL: PP4

LOCATION: MACHINE SHOP 304 VOLTS: 120/208 Wye SCRR RATING: 22k
SUPPLY FROM: PHASES: 3 MAINS TYPE: MLO
MOUNTING: SURFACE WIRES: 4 MCB RATING: NONE
ENCLOSURE: TYPE 1

NOTES:
1. PANEL TO HAVE SEPERATE GROUND AND NEUTRAL BUSSES.

Table with columns: IDENTIFICATION, WIRE, POLE, AMP, CKT, A, B, C, A, B, C, AMP, POLE, WIRE, IDENTIFICATION. Includes entries for RECEPTS-SOUTH GARAGE 311, RECEPTS-SOUTH GARAGE 311, RECEPTS-SAN SAW, etc.



Table with columns: DATE, REVISIONS. Includes dates 1/15/2021, 01/16/2022, 01/27/2022 and revision numbers 1, 2, 3.