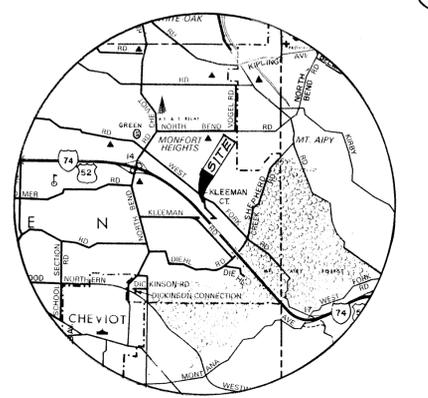
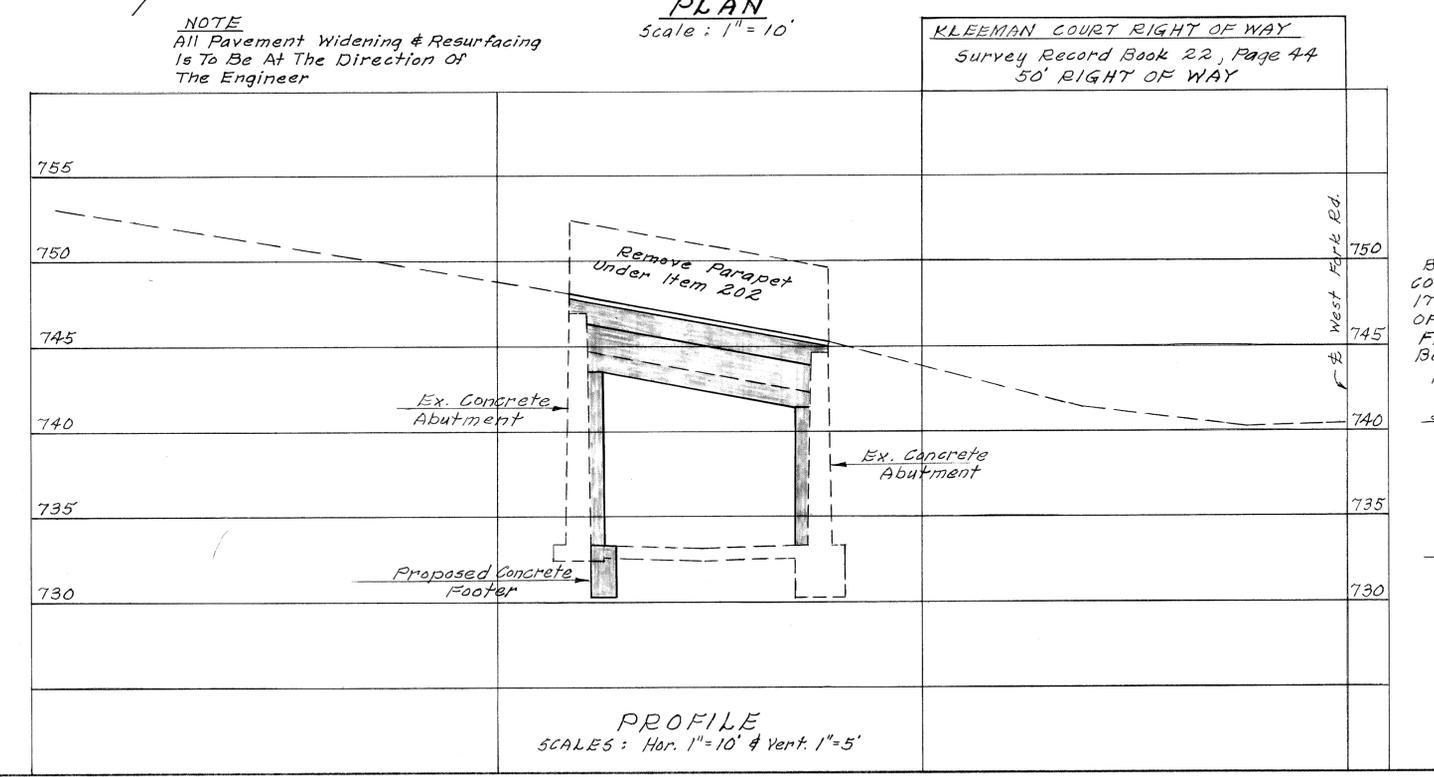
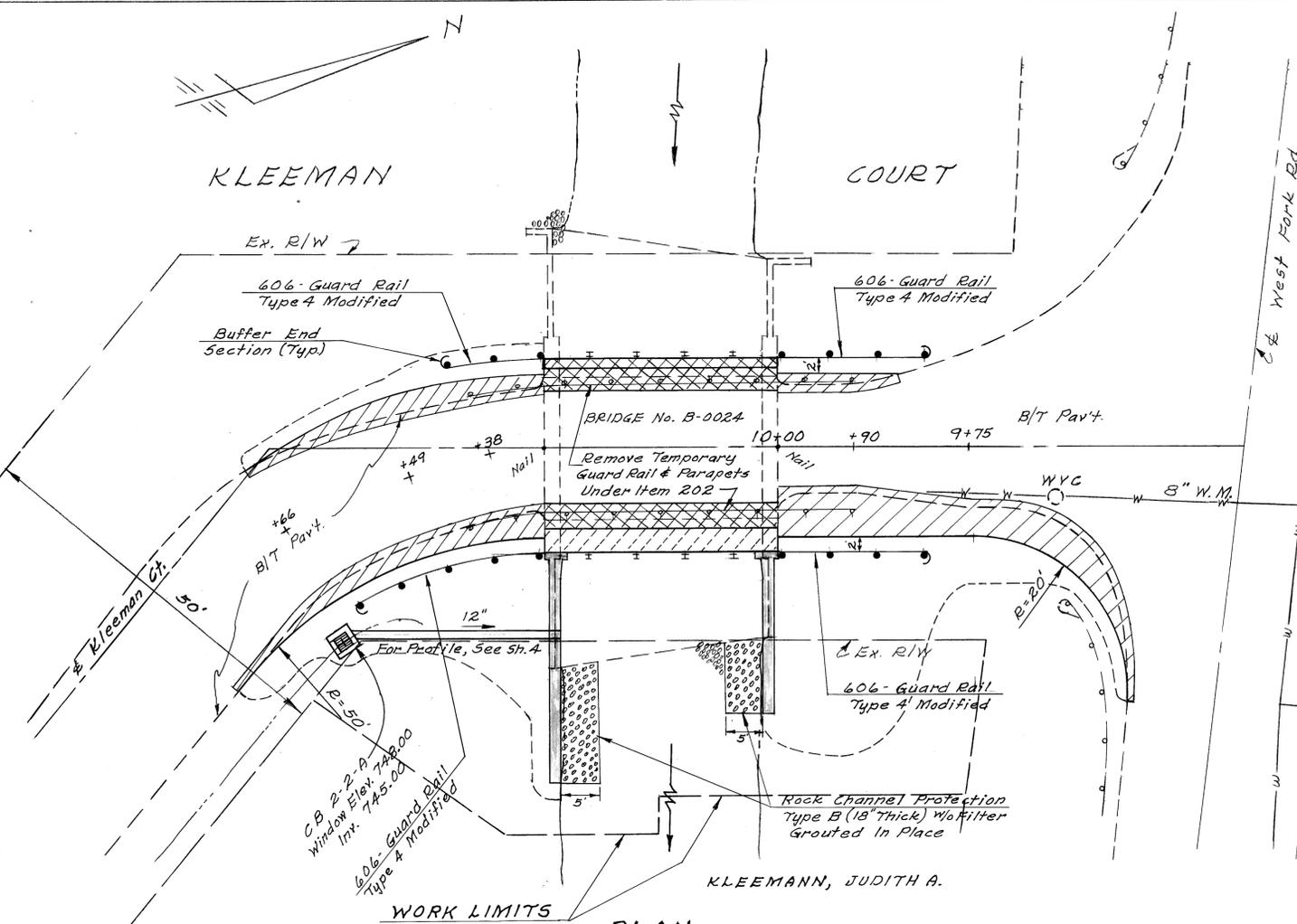


GENERAL SUMMARY		ITEM	QUAN.	UNIT	DESCRIPTION
		201	L.S.	L.S.	Clearing & Grubbing
		202	L.S.	L.S.	Portions Of Structure Removed
*		301	15	C.Y.	Bituminous Aggregate Base
*		404	5	C.Y.	Asphalt Concrete
		503	L.S.	L.S.	Unclassified Excavation Including Rock And/Or Shale - (See General Notes)
*		511	18	C.Y.	Class "C" Concrete, Including Reinforcing Steel, Footer
		511	18	C.Y.	Class "C" Concrete, Paved Invert
*		511	56	C.Y.	Class "C" Concrete, Including Reinforcing Steel (All Concrete Except Footer & Paved Invert)
		517	62.5	L.F.	Bridge Railing
		601	15	S.Y.	Rock Channel Protection, Type B w/o Filter, (Grouted In Place)
		603	30	L.F.	12" Conduit, Type C, 707.13
		604	1	Ea.	Catch Basin 2-2-A
		606	75	L.F.	Guardrail, Type 4 Modified
		614	L.S.	L.S.	Maintaining Traffic
		623	L.S.	L.S.	Construction Layout Stakes
		659	32.5	S.Y.	Seeding & Mulching, Including Commercial Fertilizer (12-12-12)

SUPPLEMENTAL ITEMS TO BE USED AT THE DISCRETION OF THE COUNTY ENGINEER		ITEM	QUAN.	UNIT	DESCRIPTION
*		301	5	C.Y.	Bituminous Aggregate Base
*		404	12	C.Y.	Asphalt Concrete
*		511	5	C.Y.	Class "C" Concrete, Including Reinforcing Steel (Footer)
*		511	5	C.Y.	Class "C" Concrete, Including Reinforcing Steel

\* Unit Price Bid For These Supplemental Items To Be Same As Unit Price Bid On Base Bid Items. The Low Bidder Shall Be Determined On The Basis Of The Total Bid. (Base Bid Plus Supplemental Bid) If The Bidder Fails To Adhere To The Above Note (Unit Price Bid For These Supplemental Items To Be Same As Unit Price Bid On Base Bid Items) The County Engineer Shall Use The Bidders Base Bid Price For The Items To Arrive At The Total Bid.

NOTICE TO BIDDERS  
It is Herewith Called To The Attention Of All Those Submitting A Proposal That Item 102.13 "Disqualification Of Bidders" (a), (b) & (c) Of The State Of Ohio, Department Of Transportation, Construction And Material Specifications, Shall Be Strictly Adhered To.



WORK LIMITS AREA  
After Completion Of This Project, The Contractor Is To Leave This Work Limits Area In A Clean & Neat Condition As Directed By The Engineer.

F.H.  
BENCH MARK - Arrow Nut On Fire Hydrant  
Elev. = 742.57

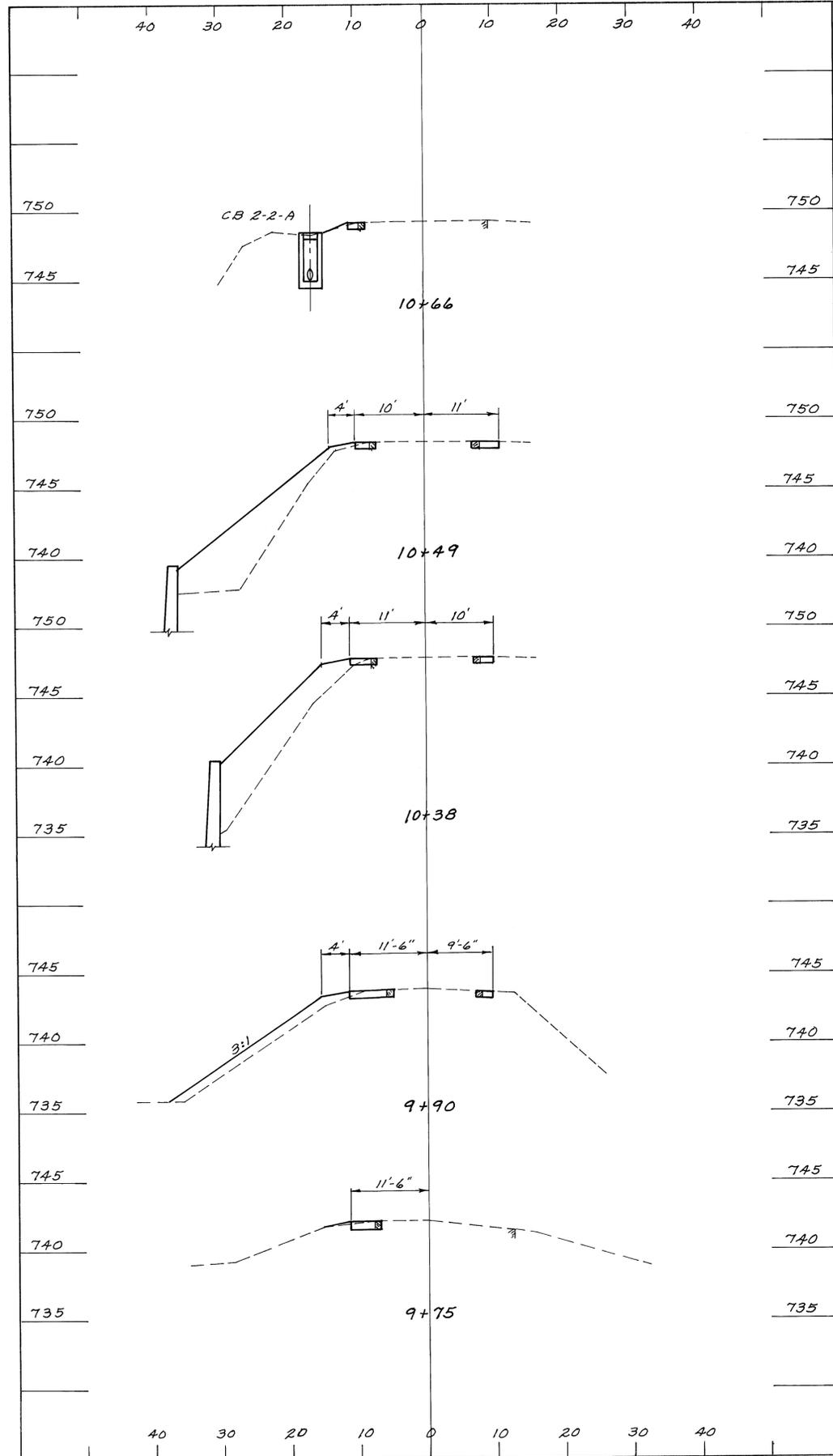
- 404 - 1 1/2" Asphalt Concrete  
301 - 7 1/2" Bituminous Aggregate
- 404 - 2 1/2" Asphalt Concrete  
407 - Tack Coat (Include In Item 404 For Payment)
- 404 - Variable Thickness Asphalt Concrete

BY, FOR, ON BEHALF OF AND IN THE NAME OF THE COUNTY OF HAMILTON AND UNDER THE AUTHORITY OF ITS BOARD OF COUNTY COMMISSIONERS; BY VIRTUE OF R.C. SECTION 305.30 AND THE RESOLUTION ADOPTED FEB. 25, 1987 AND ENTERED IN THE JOURNAL OF SAID BOARD.

APPROVED  
3/4/87  
DATE  
*Thomas W. Wang*  
COUNTY ADMINISTRATOR

APPROVED  
3/4/87  
DATE  
*Donald C. Schramm*  
DONALD C. SCHRAMM  
As Built - SJA

PROPOSED REPLACEMENT  
BRIDGE No. B-0024  
KLEEMAN COURT No. 49  
GREEN TOWNSHIP  
HAMILTON COUNTY, OHIO  
DONALD C. SCHRAMM - HAMILTON COUNTY ENGINEER



GENERAL NOTES

DESCRIPTION OF WORK:

The work to be done consists of furnishing all labor, tools, equipment and materials necessary for the rehabilitation of Bridge No. B-0024 on Kleeman Court, approximately seventy-five feet (75') south of West Fork Road.

The contract includes the removal of existing parapets, construction of pilasters, encasing outside beams, widening east side of bridge, construction of wingwalls, installing guardrail and all other incidental work necessary to complete this project.

EXAMINATION OF THE SITE:

The contractor shall carefully examine the site of the proposed work, the plans and these notes before submitting a proposal. The submission of a bid shall be considered evidence that the contractor has made such examination and is satisfied as to conditions to be encountered in performing the work and as to the requirements of the plans and these notes.

SPECIFICATIONS:

All work on this project shall conform to the State of Ohio Department of Transportation Construction and Material Specifications dated January 1, 1985 with supplements or changes thereto and, or as noted herein.

PERMITS:

The contractor shall procure all permits and pay all charges and fees as may be found necessary and required by the County.

HAUL ROADS:

The contractor shall notify the County Engineer, in writing, at least ten (10) days in advance of the use of any road for the purpose of hauling material or equipment to or from the project. Said notice to the County Engineer shall include the limits of the roads over which the contractor intends to operate. The contractor shall not use any road for hauling purposes without written approval of the County Engineer.

LIST OF EQUIPMENT TO BE USED ON PROJECT:

The contractor shall furnish a list of all equipment to be used on this project to the County Engineer's Construction Department at the time of the Pre-Construction Meeting. Additional equipment brought on the job site after beginning of the work shall be noted in writing by the contractor to the County Engineer's Construction Department as an amendment to the list.

Equipment noted on the original or amended lists which is removed from the job site shall also be noted in writing by the contractor to the County Engineer's Construction Department as an amendment to the list.

OBSTRUCTION TO STEAM FLOW:

The accumulation of debris in the steam channel to adversely affect stream flow at any anticipated stream stage will not be permitted at any time during the construction period. Final cleanup of the site shall restore the stream channel to hydraulic condition equal or better than that existing at the beginning of construction.

ITEM 606 - GUARDRAIL, TYPE 4 (MODIFIED):

This item shall consist of furnishing and installing Type 4 Post (Standard Drawing GR-2C, modified for 6'3" post spacing), Deep Beam Guardrail and Buffer End Section (Standard Drawing GR-1) with all necessary fitting and incidentals in accordance with the plans and specifications. Payment will be made at the contract price per lineal foot for Guardrail, Type 4, Modified.

ITEM 517, RAILING:

This item shall consist of furnishing all labor and materials necessary to construct and erect the complete railings on the bridge and wingwall in accordance with the plans and specifications. The beam guardrail, angle railing, posts, bolts, brackets and all other fittings shall be hot dip galvanized after fabrication. Measurement shall be made between the centers of the first post beyond the abutments. Payment will be made at the contract price per lineal foot for railing.

ITEM 614 - MAINTAINING TRAFFIC:

This item shall consist of furnishing, erecting and maintaining standard barricades and warning signs at the limits of the project. The contractor will not be permitted to begin work until all standard barricades and warning signs are in acceptable position and the markers and sign conform to the "Ohio Manual of Uniform Traffic Control Devices for Streets and Highways", latest edition.

The contractor is hereby advised that this bridge serves six (6) property owners. This bridge is the only access for the property owners. Traffic on this bridge shall be maintained at all times during construction. The contractor shall be responsible for keeping the bridge open to current traffic at all times.

ITEM 503 - UNCLASSIFIED EXCAVATION INCLUDING ROCK AND/OR SHALE:

In addition to the general requirements of Item 503 of the specifications, this item shall include all excavation and embankment required on this project.

All excavation and embankment shall meet all the requirements of Item 203.

Payment will be made at the lump sum unit price, which will include full compensation for all excavation, embankment and all other incidentals necessary to complete this item.

ITEM 202 - PORTIONS OF STRUCTURES REMOVED:

This Item shall consist of the removal of the concrete parapet walls, saw-cutting and removal of concrete slab for pilaster and wall footers and paved invert repairing and any other removals required. All material removed shall be disposed of off the site at a location approved by the Engineer. See Item 601 below for possible use as rock channel protection.

The contractor is to saw-cut the existing concrete slab (if necessary) to maintain a minimum depth of eight inches (8") concrete for paved invert repairs. All work required for paved invert repair (except concrete) shall be included in this item.

ITEM 511 - CONCRETE:

All concrete work (footing, walls, etc.) is to be paid for under this item (as outlined below).

All concrete shall be class "C", air entrained.

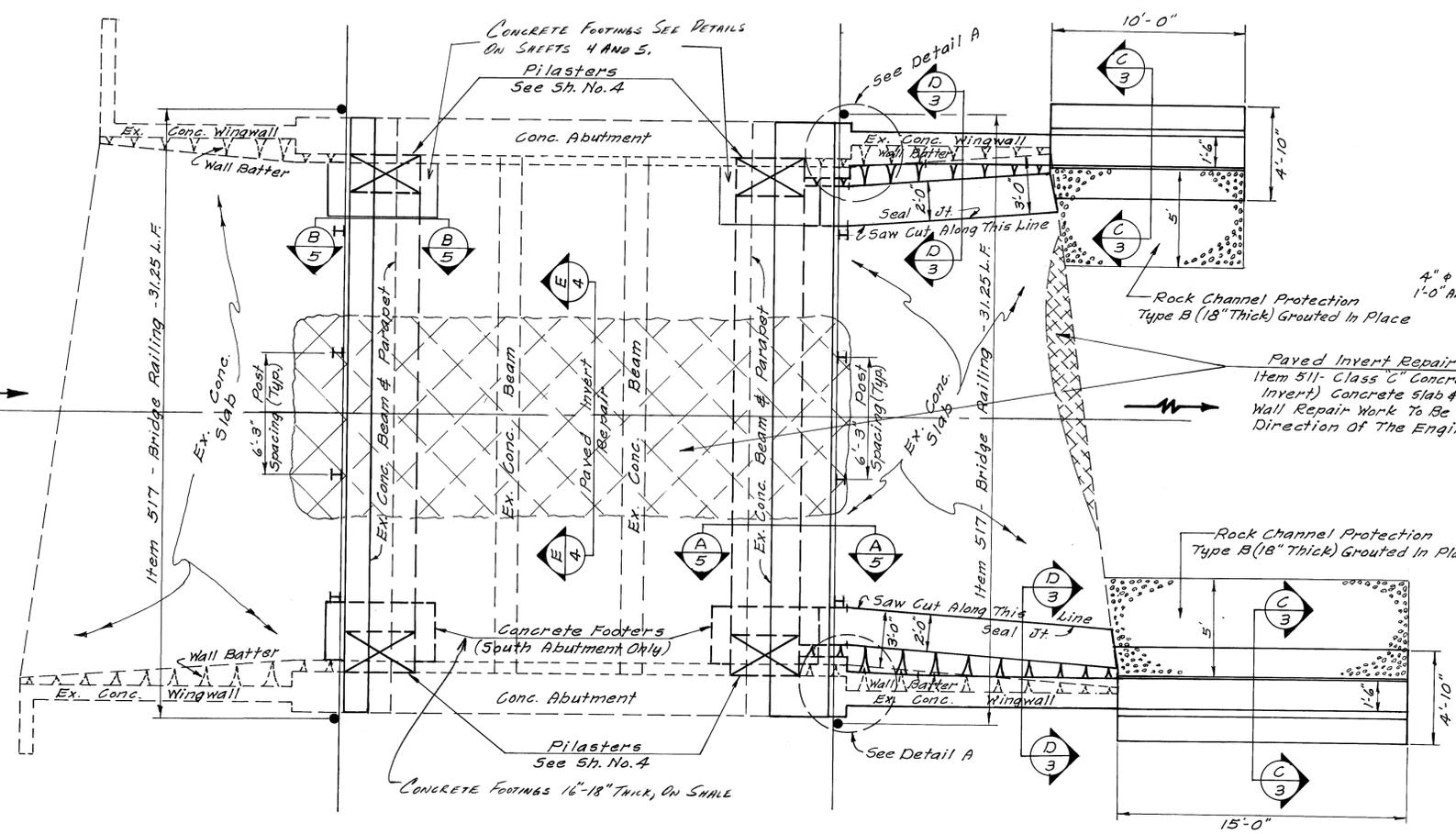
Steel reinforcement shall meet all the requirements of Item 509 - Reinforcing Steel. Contractor shall supply County with four (4) copies of reinforcing steel shop drawings prior to fabricating steel. Shop drawing shall show size, length, bend dimensions and the location of reinforcing bars.

On paved invert repair, a minimum depth of eight inch (8") concrete shall be maintained, as directed by the Engineer.

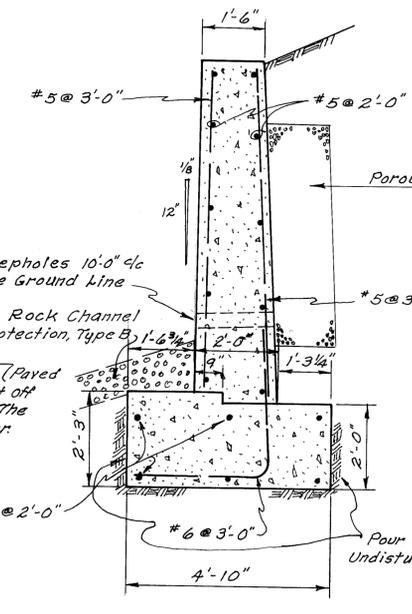
Payment will be made at the unit price bid per cubic yard, which will include full compensation for all concrete, reinforcing steel, form work, expansion joint materials, weep holes, joint filler and all other incidentals necessary to complete the item.

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE "B", W/O FILTER, GROUTED IN PLACE:

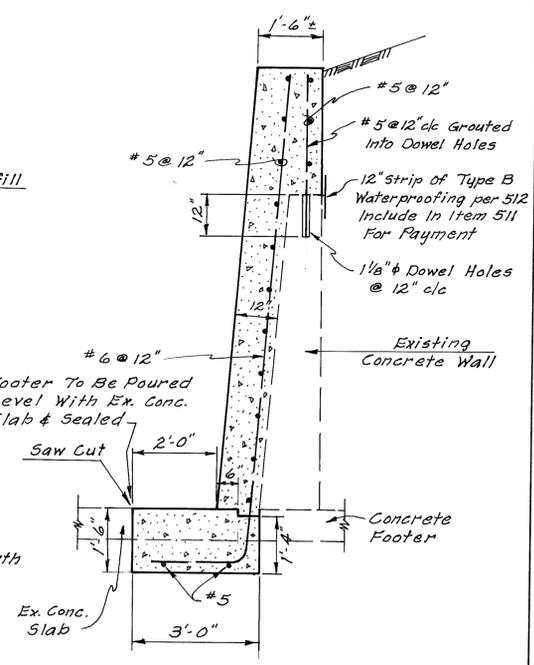
This item shall consist of grading the channel and bank to the grades indicated on the plans and the placing of rock channel protection to a depth of eighteen inches (18") and grouted in place in accordance with the pertinent State specifications. The material from Item 202 above may be used for this providing it meets specifications or is approved by the Engineer.



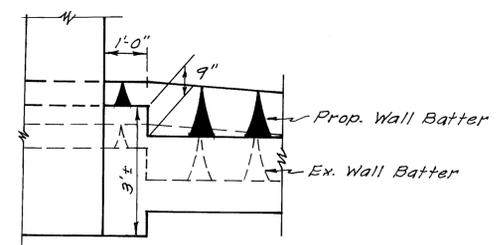
**PLAN**  
Scale: 1/4" = 1'-0"



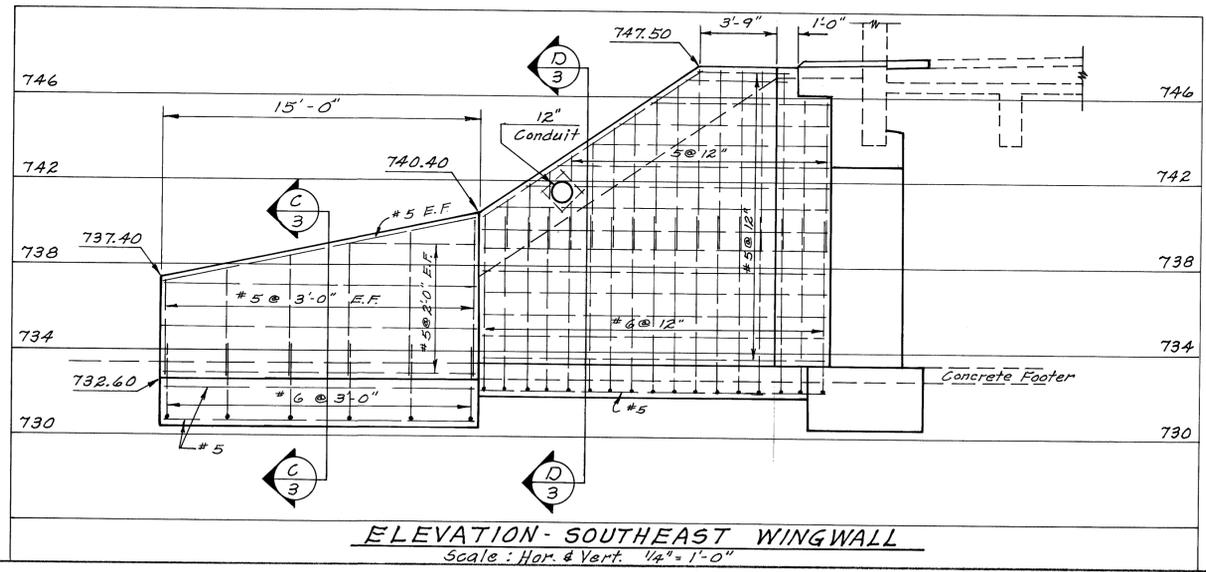
**SECTION G-G**  
Scale: 1/2" = 1'-0"



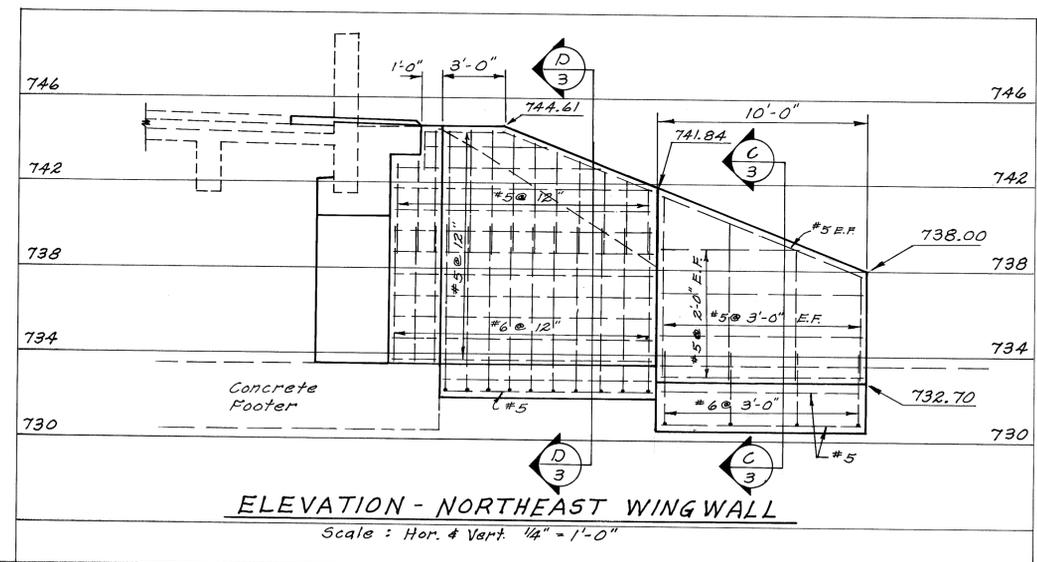
**SECTION D-D**  
Scale: 1/2" = 1'-0"



**DETAIL A**



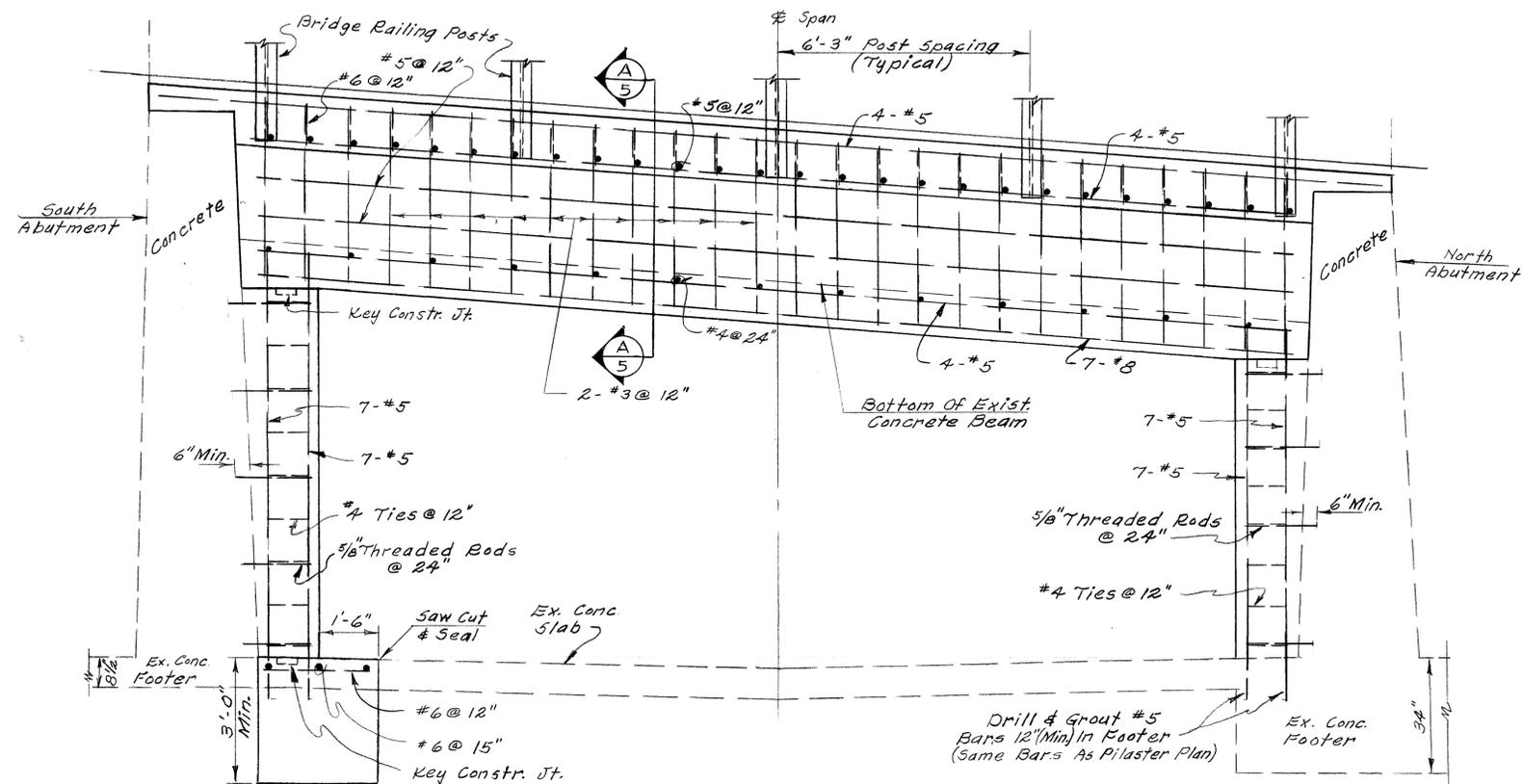
**ELEVATION - SOUTHEAST WINGWALL**  
Scale: Hor. & Vert. 1/4" = 1'-0"



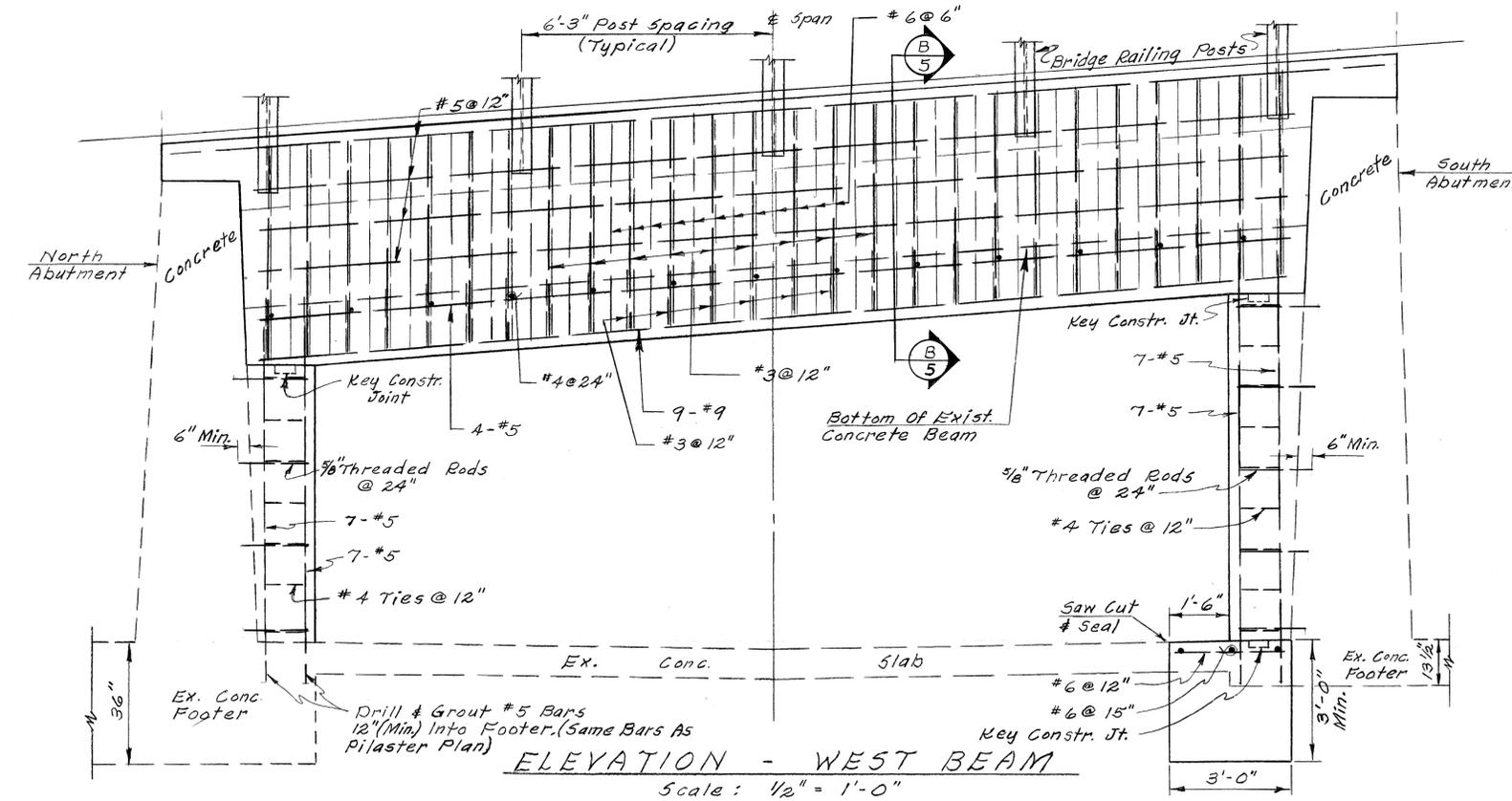
**ELEVATION - NORTHEAST WINGWALL**  
Scale: Hor. & Vert. 1/4" = 1'-0"

**WALL DETAILS**

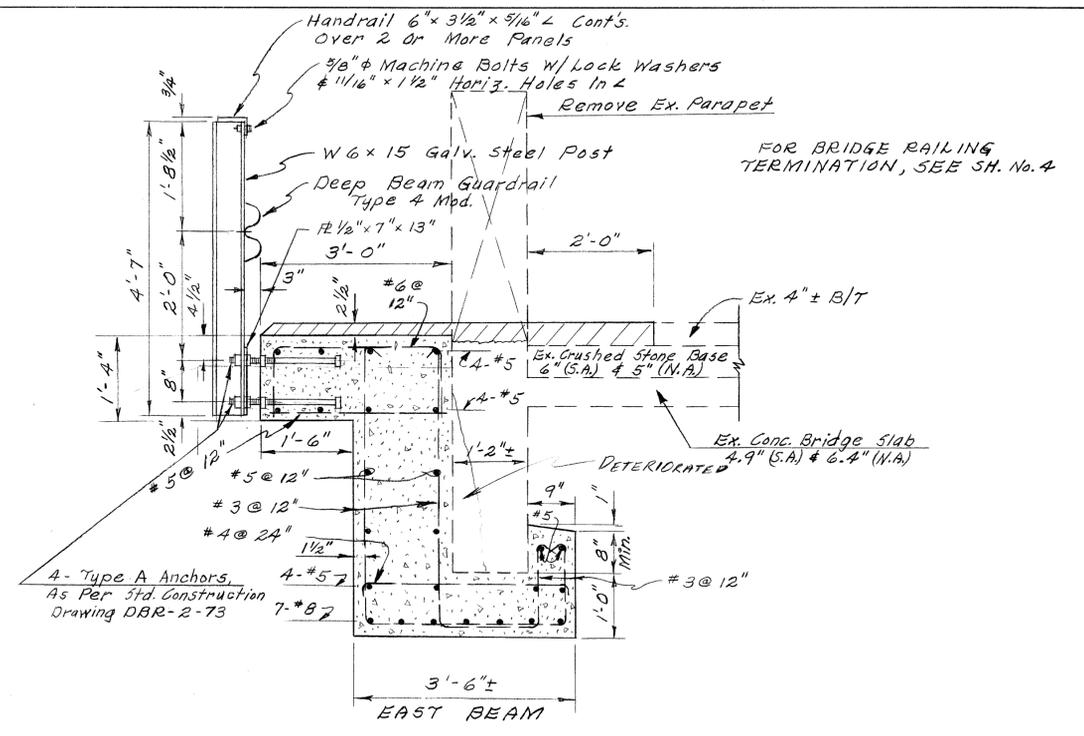




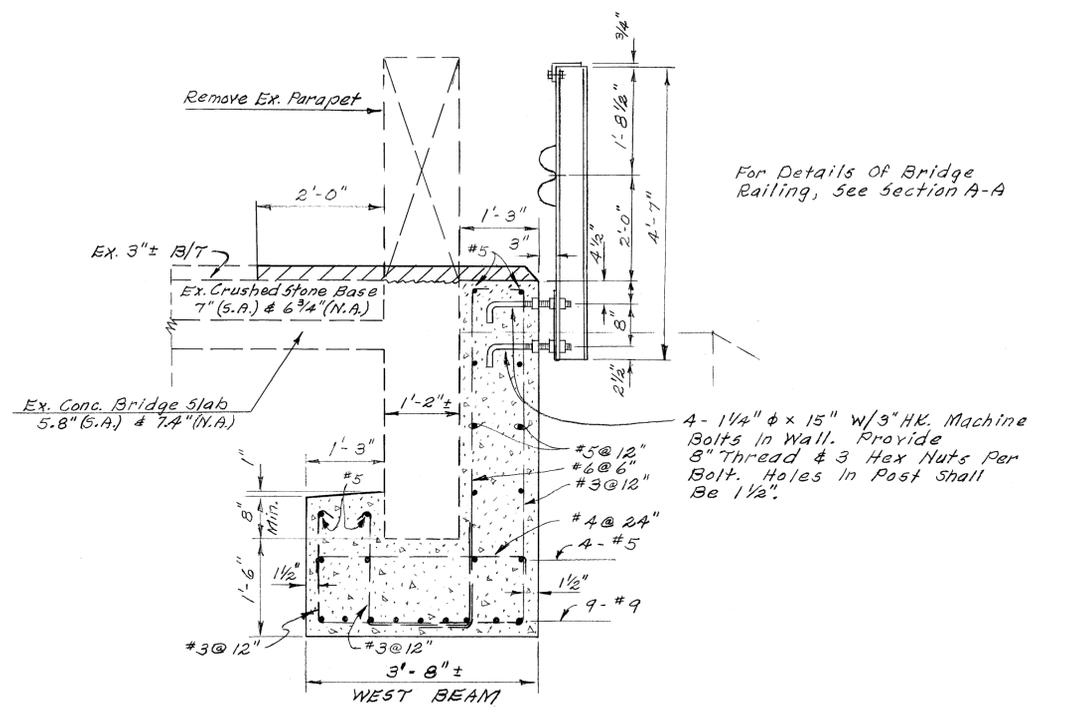
**ELEVATION - EAST BEAM**  
Scale: 1/2" = 1'-0"



**ELEVATION - WEST BEAM**  
Scale: 1/2" = 1'-0"



**SECTION A-A**  
Scale: 3/4" = 1'-0"



**SECTION B-B**  
Scale: 3/4" = 1'-0"

FOR BRIDGE RAILING TERMINATION, SEE SH. No. 4

For Details of Bridge Railing, See Section A-A