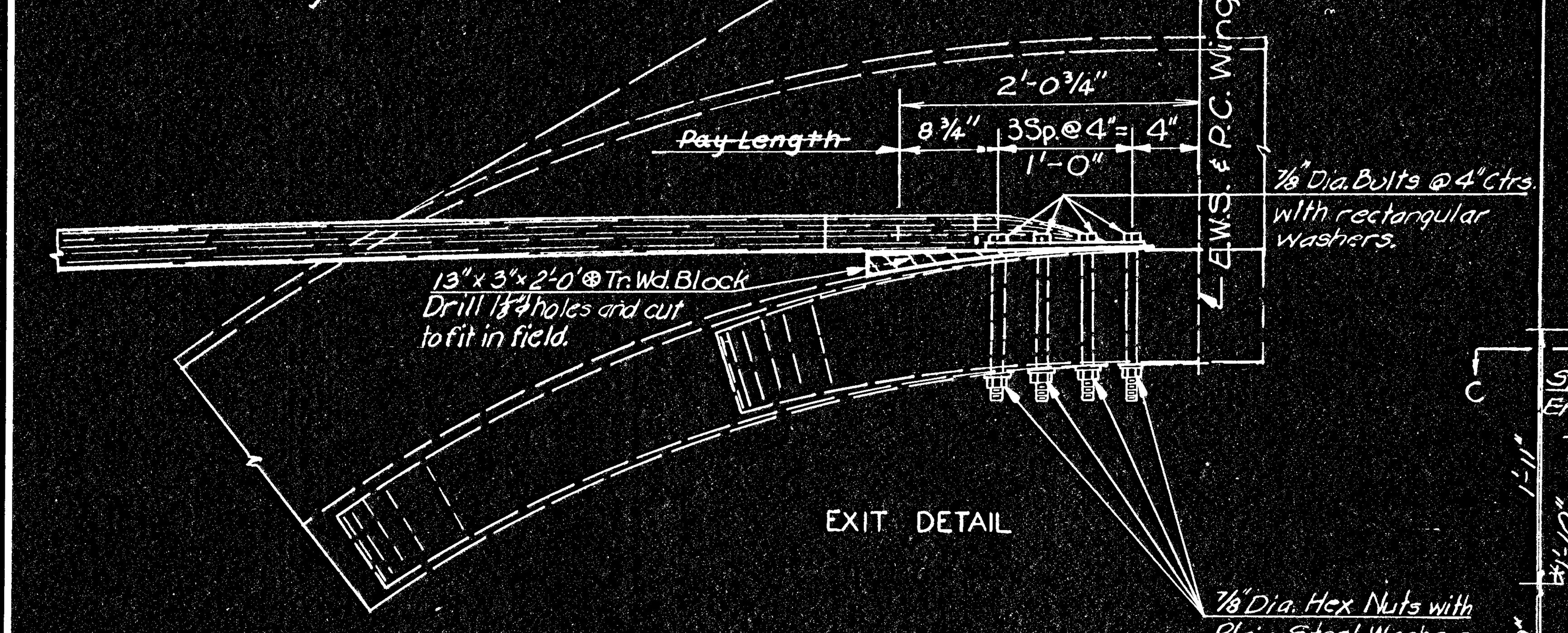
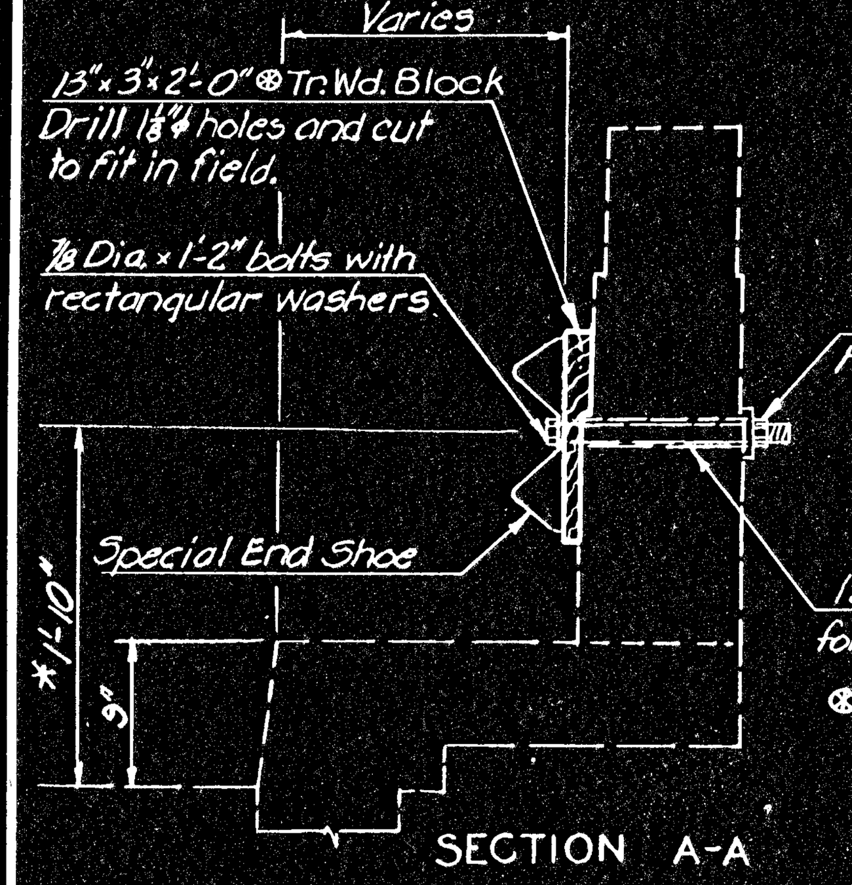
FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	(BC)96-87-044-1(28)	1978	140	143

*Note: Dimension has been increased by one inch to accommodate present or future overlay.



EXIT DETAIL

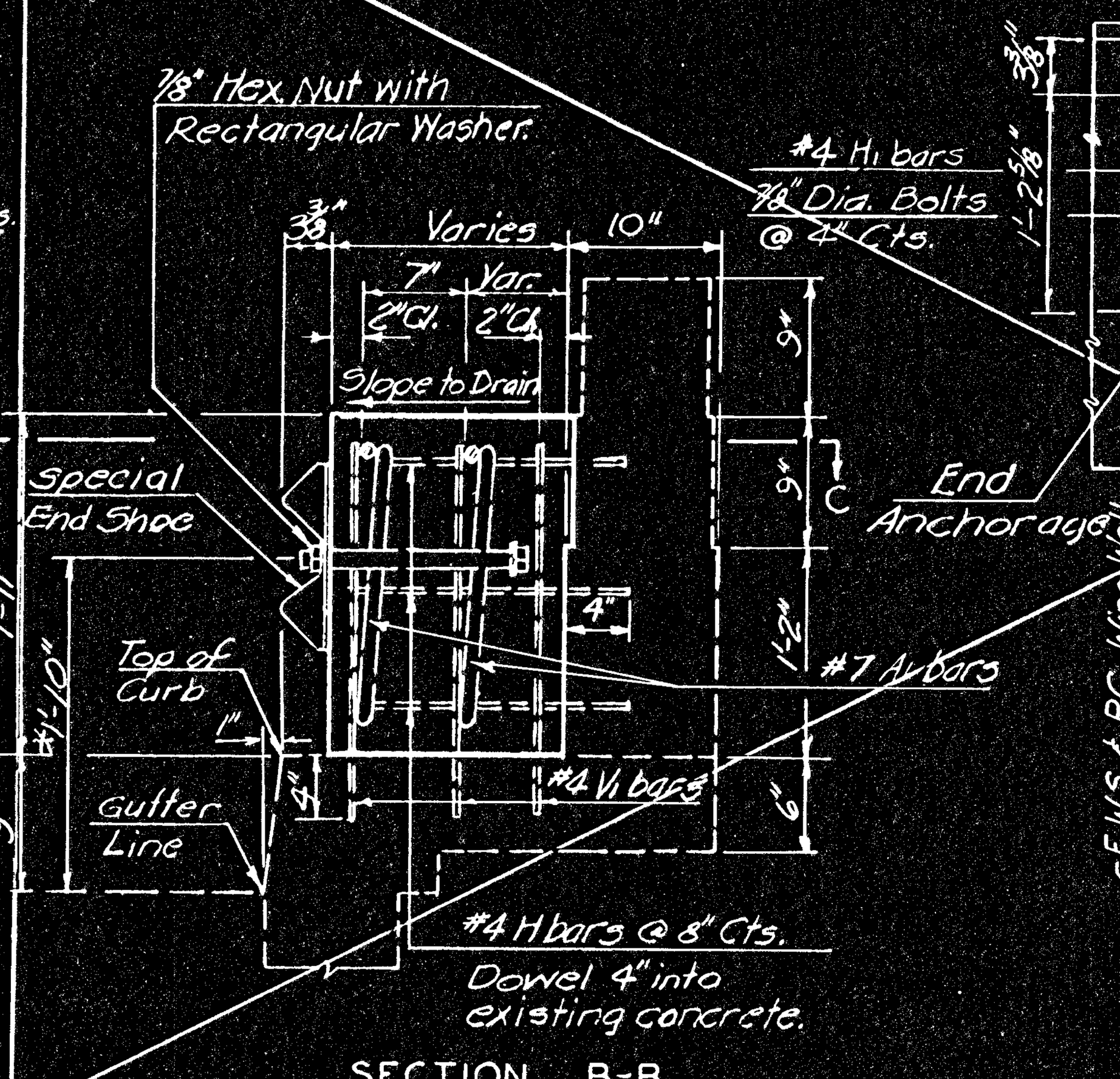
NOTE: All material and labor necessary to connect the guard fence to the bridge shall be included in the unit price bid for the Cantilever Sign Structure at Sta. 415+00.



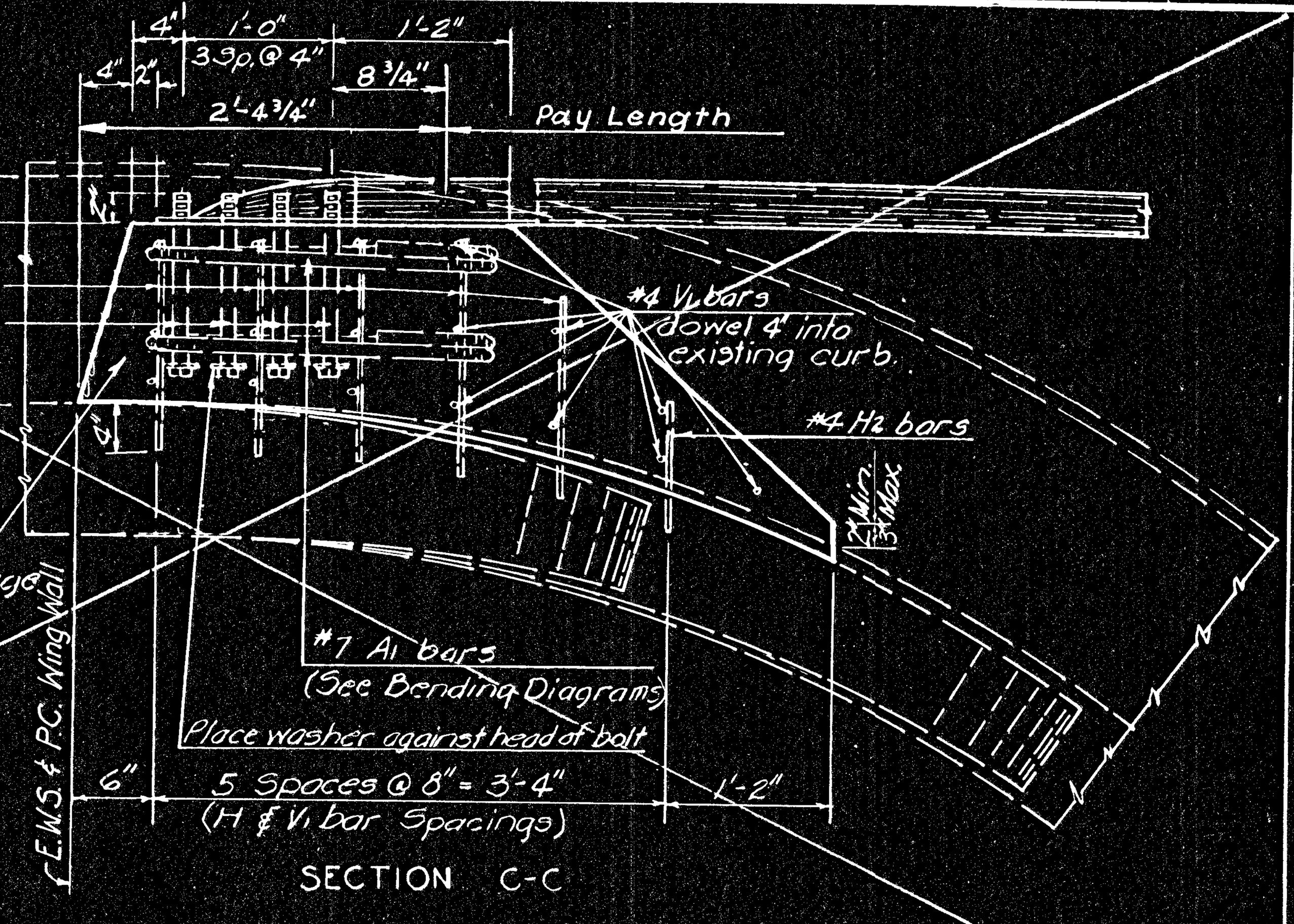
SECTION A-A

⊕ All wood blocks shall be given a preservative treatment of creosote or penta-solution as provided in the specifications.

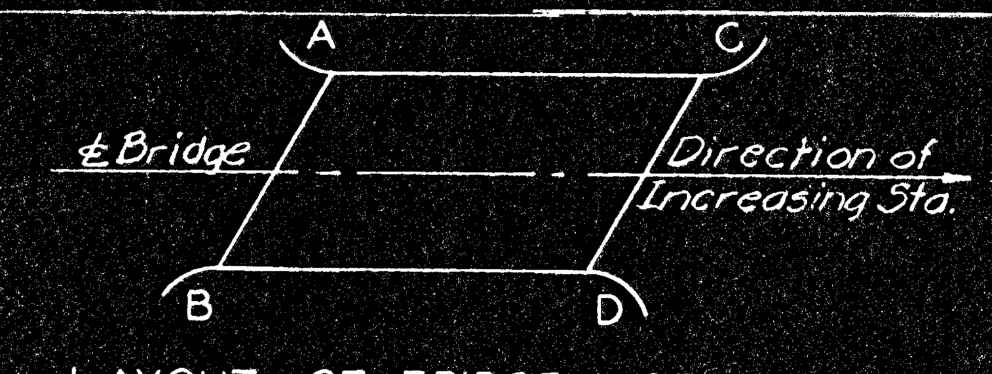
Note: Embed 4'-⅞" ∅ x 1'-2" bolts with washers 1'-0" into new concrete.



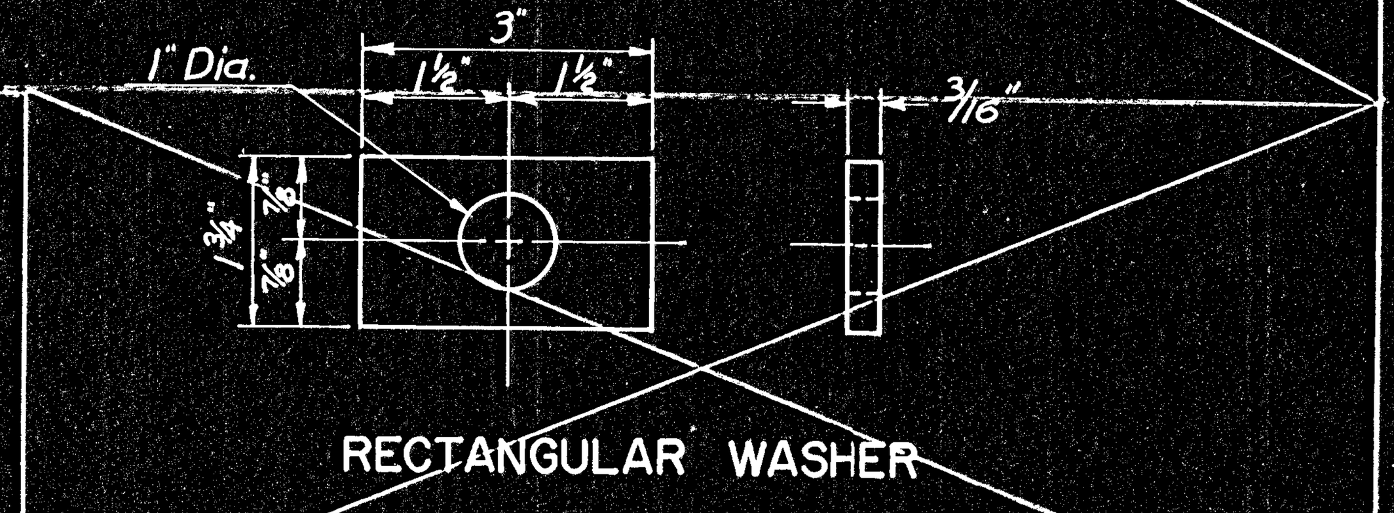
SECTION B-B



SECTION C-C



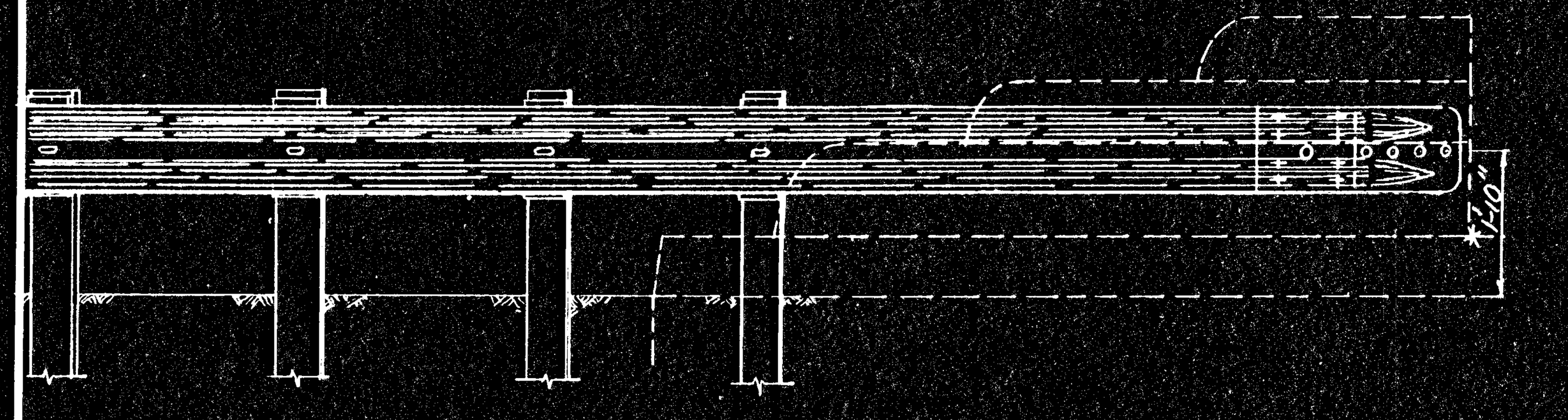
LAYOUT OF BRIDGE WORK



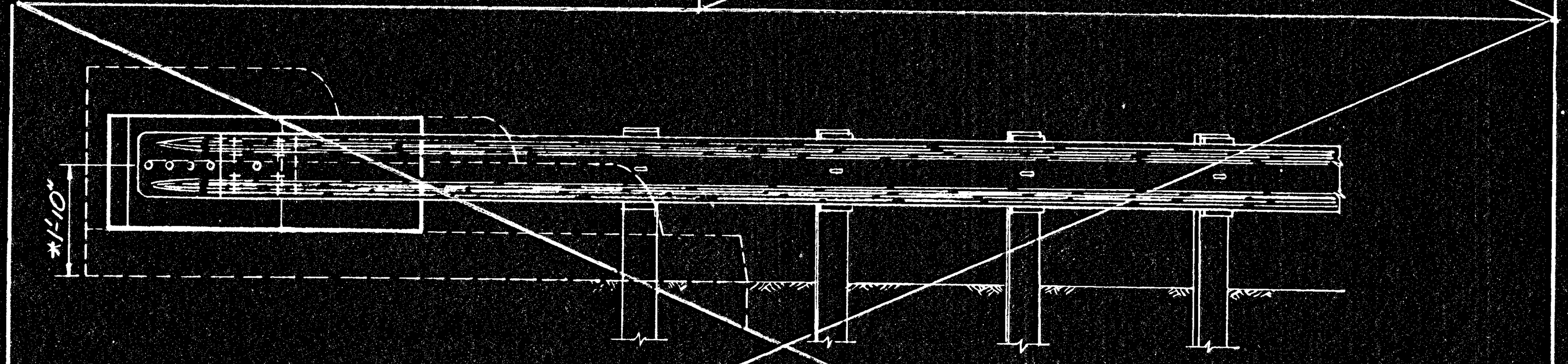
RECTANGULAR WASHER

SCHEDULE OF BRIDGE WORK		
BRIDGE NUMBER	## LOC.	~~PAY LENGTH~~ "STATION"
235-81-24.33	A	415+68.69
So. Bound		

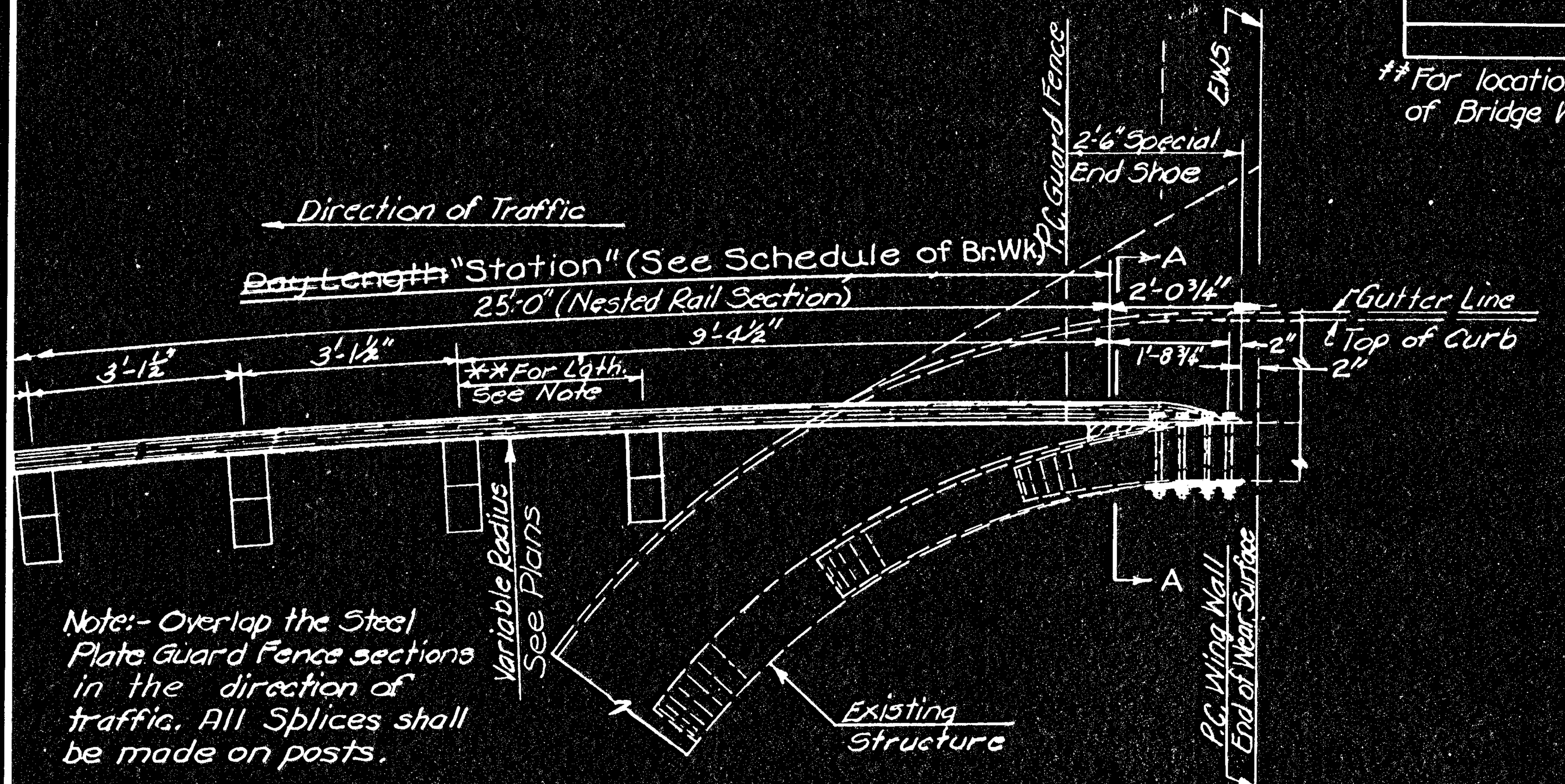
For location, see Layout of Bridge Work.



ELEVATION OF EXIT



ELEVATION OF ENTRANCE

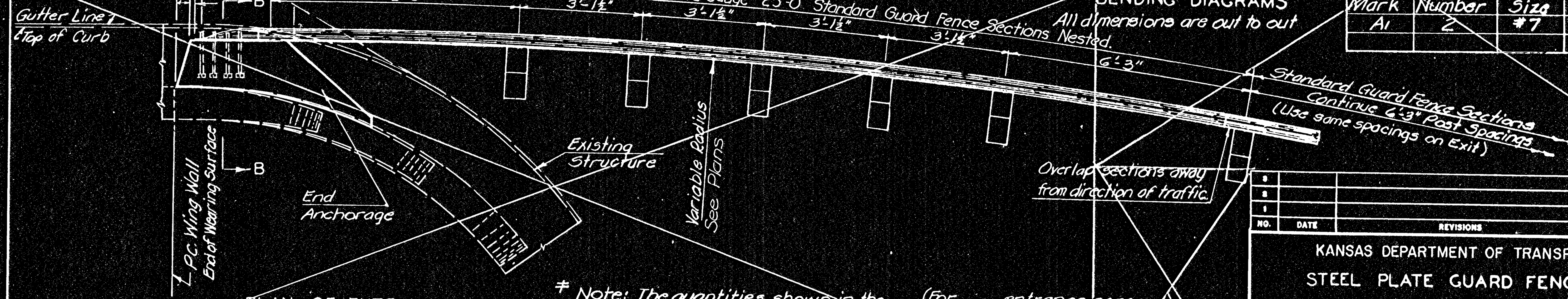


Direction of Traffic
~~Pay Length~~ "Station" (See Schedule of Br. Wk.)
25'-0" (Nested Rail Section)
2'-6" Special End Shoe
P.C. Guard Fence
E.W.S.
2'-0¼"
Gutter Line
Top of Curb
3'-1½"
3'-1½"
9'-4½"
1'-8¾"
**For Cstn. See Note
Variable Radius See Plans
Existing Structure
P.C. Wing Wall
End of Wear. Surface

PLAN OF EXIT

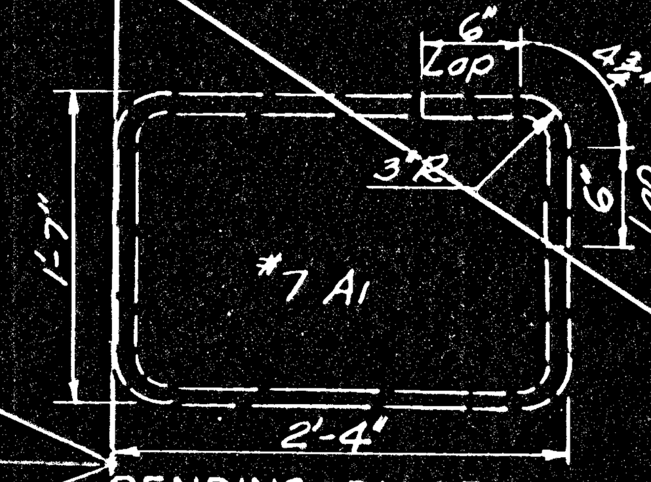
Note:- Overlap the Steel Plate Guard Fence sections in the direction of traffic. All Splices shall be made on posts.

** The Engineer shall direct the location of the nearest fence post to clear the existing structure at a distance not to exceed 6'-3" from the ~~Pay Length~~ slot of the Special End Shoe. A 1⅛" bolt hole shall be field drilled in the guard fence to fit construction.



E.W.S.
P.C. Guard Fence
2'-6" Special End Shoe
Direction of Traffic
Pay Length "Station" (See Schedule of Br. Work)
Gutter Line
Top of Curb
6'-3"
3'-1½"
3'-1½"
3'-1½"
3'-1½"
2-12 Gauge 25'-0" Standard Guard Fence Sections Nested.
6'-3"
Standard Guard Fence Sections Continue 6'-3" Post Spacings (Use same spacings on Exit)
Existing Structure
End Anchorage
Variable Radius See Plans
P.C. Wing Wall
End of Wearing Surface
Overlap sections away from direction of traffic.

PLAN OF ENTRANCE



BENDING DIAGRAMS

All dimensions are out to out

BILL OF REINFORCEMENT FOR ONE ENTRANCE CONNECTION			
Straight Bars			
Mark	Number	Size	Length
H₁	15	#4	1'-7"
H₂	3	#4	0'-10"
V₁	17	#4	2'-1"
Bent Bars			
Mark	Number	Size	Length
A₁	2	#7	8'-10"

DESIGN NOTE:
Attachment for: monolithic ~~free standing abutments~~
Direction of Traffic: One-Way ~~Two-Way~~

GENERAL NOTES

UNIT STRESSES: fc = 1200 p.s.i.; f'c = 3000 p.s.i.; fs = 20,000 psi
TRAFFIC: Traffic shall be carried through construction. (See traffic control sheets)
~~CONCRETE: Class A Concrete shall be used throughout. Bevel all exposed edges with a ¾" triangular molding unless otherwise noted.~~
~~REINFORCING: All dimensions relative to reinforcing steel are to centerline of bar unless otherwise noted.~~
~~BRIDGE NUMBER PLATE: If Bridge Number Plate is obscured by construction, a new plate shall be required and placed as directed by the Engineer. This plate shall not be paid for directly, but shall be subsidiary to "Steel Plate Guard Fence (Galv.)".~~
DIMENSIONS: Dimensions and stations of existing structures are taken from old plans and shall be verified by the Contractor in the field prior to construction.
DRILLING AND GROUTING: All materials, drilling and grouting required to attach the Special End Shoe to the existing structure shall not be paid for directly. ~~but shall be subsidiary to "Steel Plate Guard Fence (Galv.)".~~
SPECIAL END SHOE: Special End Shoe shall be 10 gauge steel and galvanized in accordance with ASTM Designation A525 with coating class 2.50. The shoe has the same section as through beam guardrail. Special End Shoe shall be as shown on Std. Gd. Fc. Sh. ~~and shall be subsidiary to "Steel Plate Guard Fence (Galv.)".~~
BOLTS: All bolts, nuts and washers are to be galvanized in accordance with subsection 1006.16 of the Standard Specifications. ~~and shall be subsidiary to "Steel Plate Guard Fence (Galv.)".~~
~~STEEL PLATE GUARD FENCE: One section of the two used in Nested Rail Section shall be subsidiary to bid item "Steel Plate Guard Fence (Galv.)."~~
ALIGNMENT OF GUARD FENCE ON APPROACH TO BRIDGE: For alignment of guard fence on approach to bridge, see ~~Sheet Nos.~~ Const. Layout.

Note: The quantities shown in the Bill of Materials were computed as an aid to the Contractor in estimating the cost of the project.

BILL OF MATERIALS # (For entrance corners)	
Class A Concrete	___ Cu. Yds.
Reinforcing Steel	___ Lbs.

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION

STEEL PLATE GUARD FENCE

CONNECTION TO BRIDGE

TYPE-E

SHEET NO. 140 OF 143	SCALE	APP'D	
DESIGNED	DETAILED LLB	QUANTITIES	TRACED
DESIGN CK. 11-7-73	DETAIL CK.	QUAN. CK.	TRACE CK.