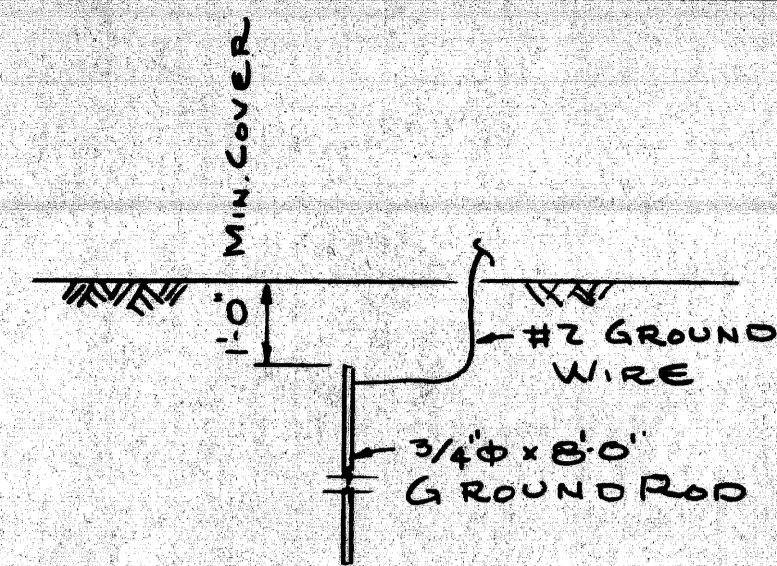


QUANTITIES		
ITEM	UNIT	AMOUNT
PEDESTRIAN FENCING, STRUCTURES	S.F.	5555
ELECTRICAL GROUNDING SYSTEM	EA	2

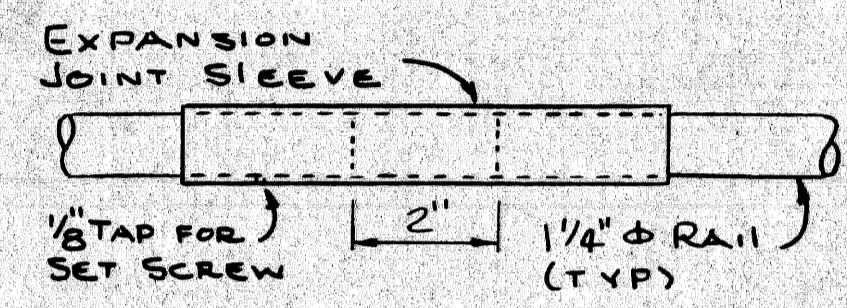
FENCING NOTES

- All work shall conform to MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, 1979 EDITION
- All fence fabric shall be galvanized, #9 gage with a 2" mesh and with knuckling at the bottom selvage.
- The posts shall be 2 1/4" x 2" galvanized H-Posts weighing 4.1 PLF. Round posts having a 2 7/8" O.D. weighing 5.19 PLF. galvanized may be used with similar connection details.
- The nominal 1 1/4" diameter braces shall be 1 5/8" O.D. steel pipe or tubing weighing 2.27 PLF. galvanized.
- All posts and tubing shall be furnished with the manufacturer's standard connections and its minimum weight shall be within 5% of that specified.
- Posts and tubing shall be bent in the shop as shown on the plans.
- All components are to be galvanized. Bolts, nuts and washers are to be galvanized in accordance with ASTM A 153.
- Tension bars shall be 3/4" x 1/4" galvanized steel.
- Contractor shall verify field conditions before fabrication.
- Care is to be taken in placing expansion bolts and brackets so as to insure that the brackets hold the posts firmly against concrete, shim if necessary.
- PEDESTRIAN FENCING-STRUCTURES shall include the fabric, posts, braces, expansion bolts, brackets and all suitable connections and fittings.
- 1/2" diameter expansion bolts shall be Phillips red head galvanized wedge anchors WS 1242 G or approved equal.

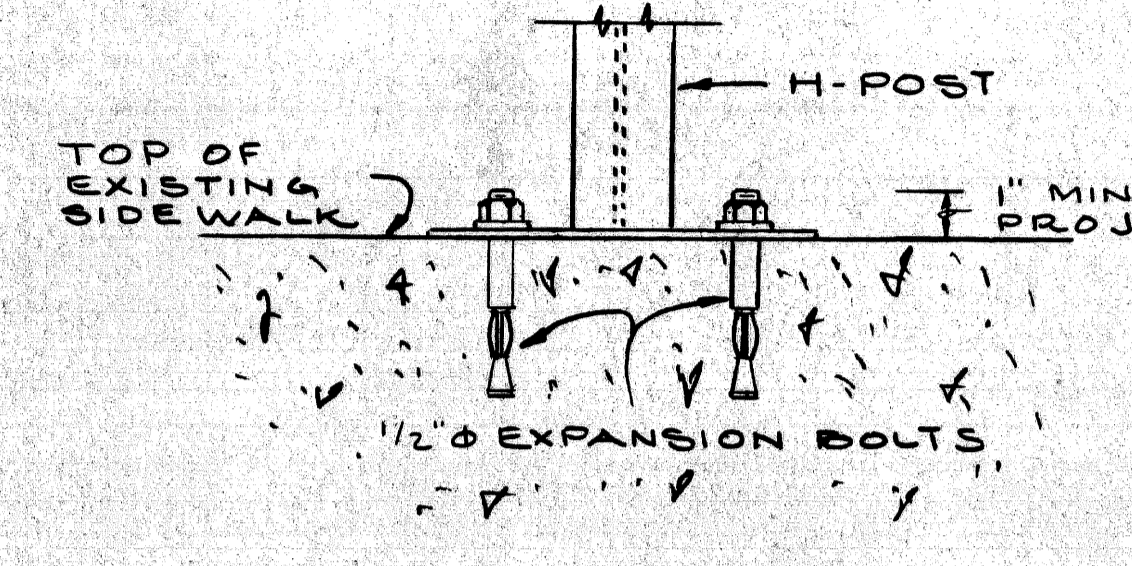
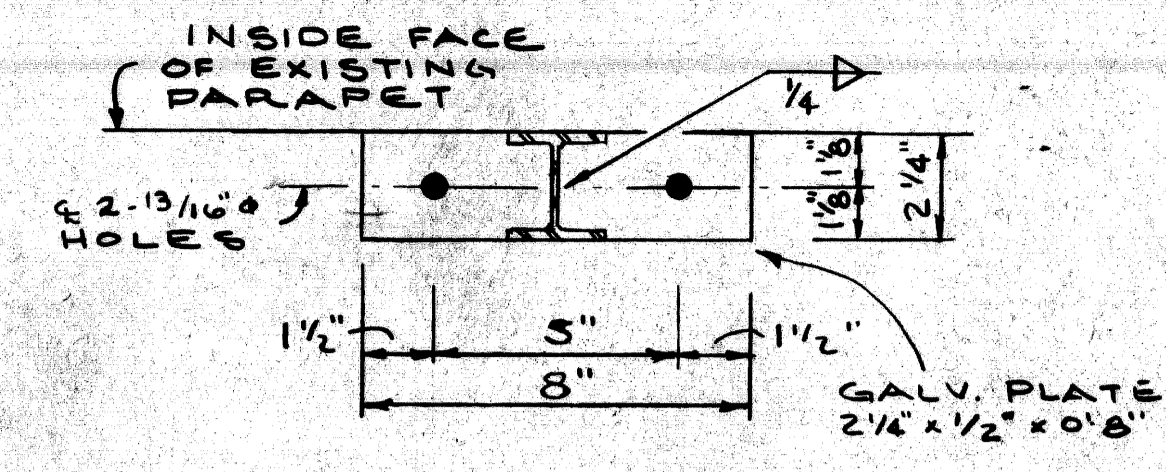


1. All underground connections shall be coldweld, thermite weld, gas or arc weld.
2. Exposed connections may be split bolt or clamp type.
3. Ground wire shall be #2 AWG stranded soft drawn copper wire.
4. Resistance to ground for any continuous section of fence shall not exceed 25 ohms per ground rod.

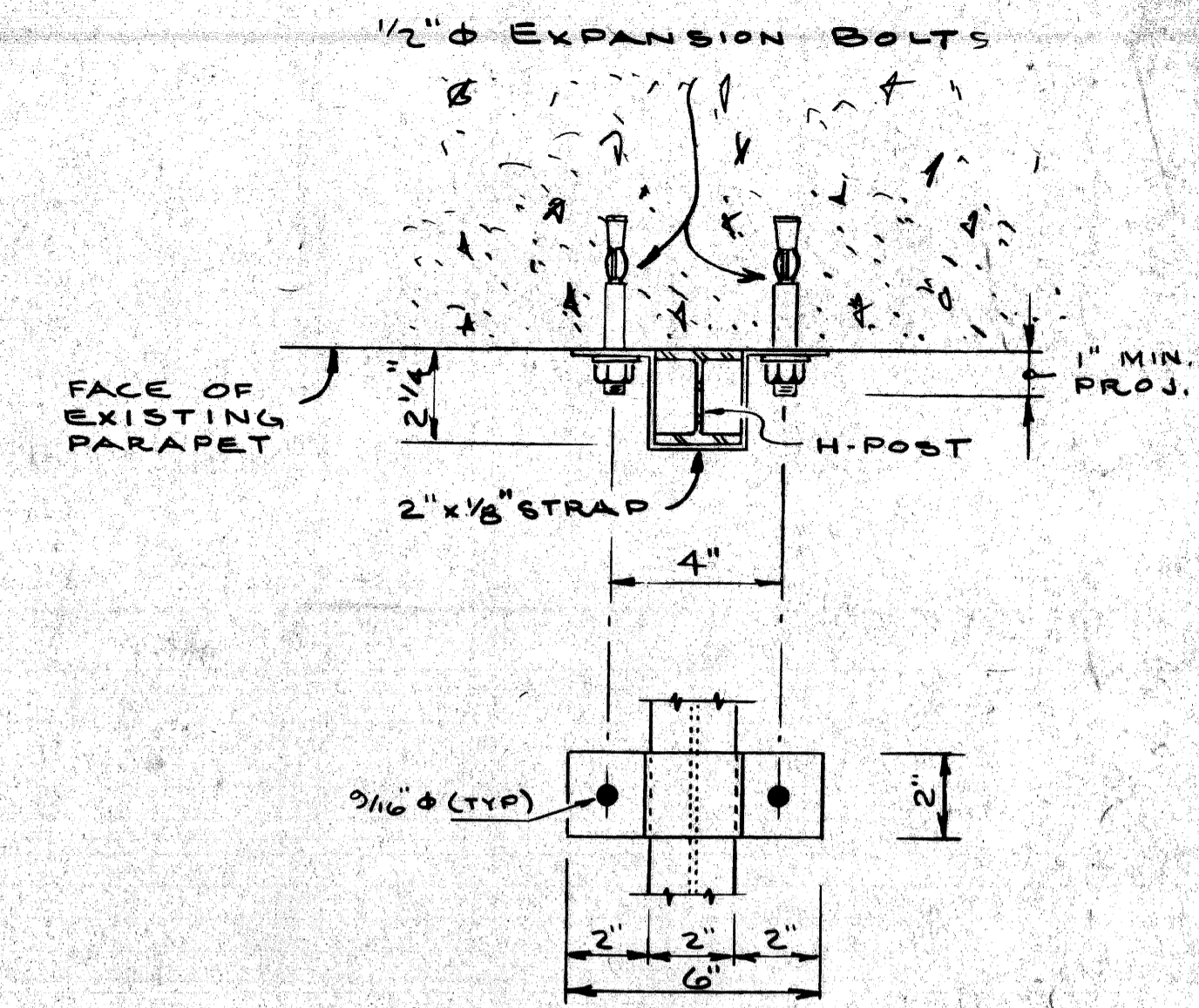
— GROUNDING DETAIL —



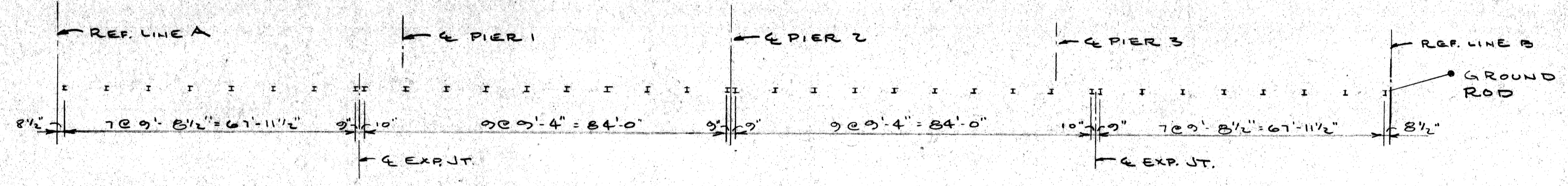
— EXPANSION SLEEVE DETAIL —



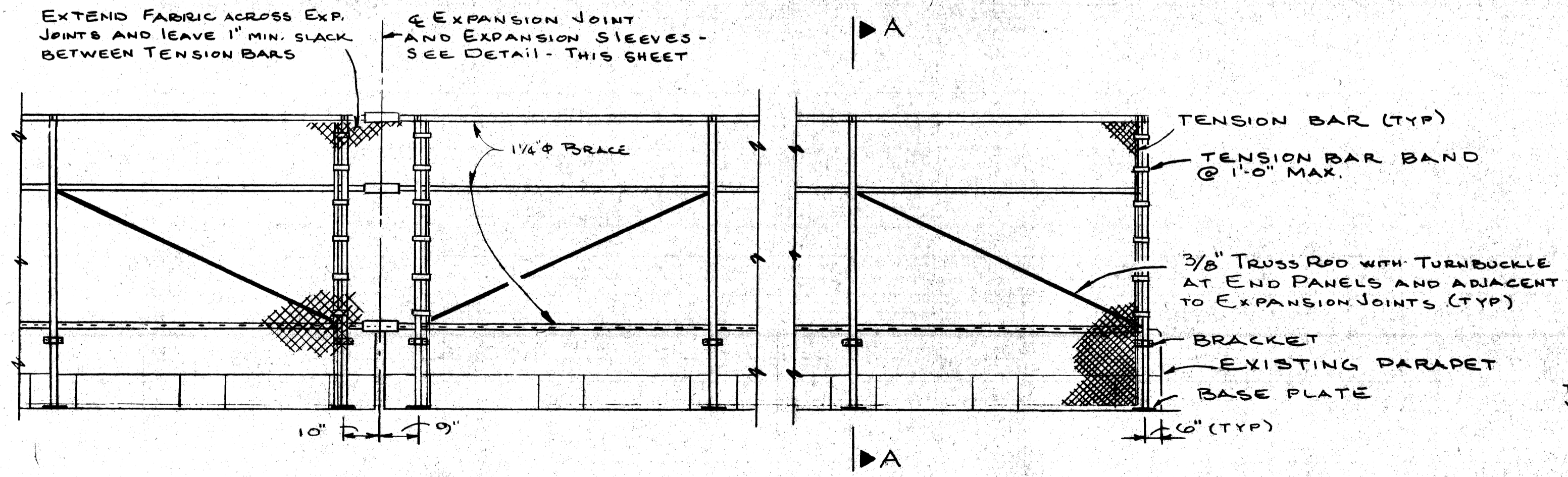
— BASE PLATE DETAILS —



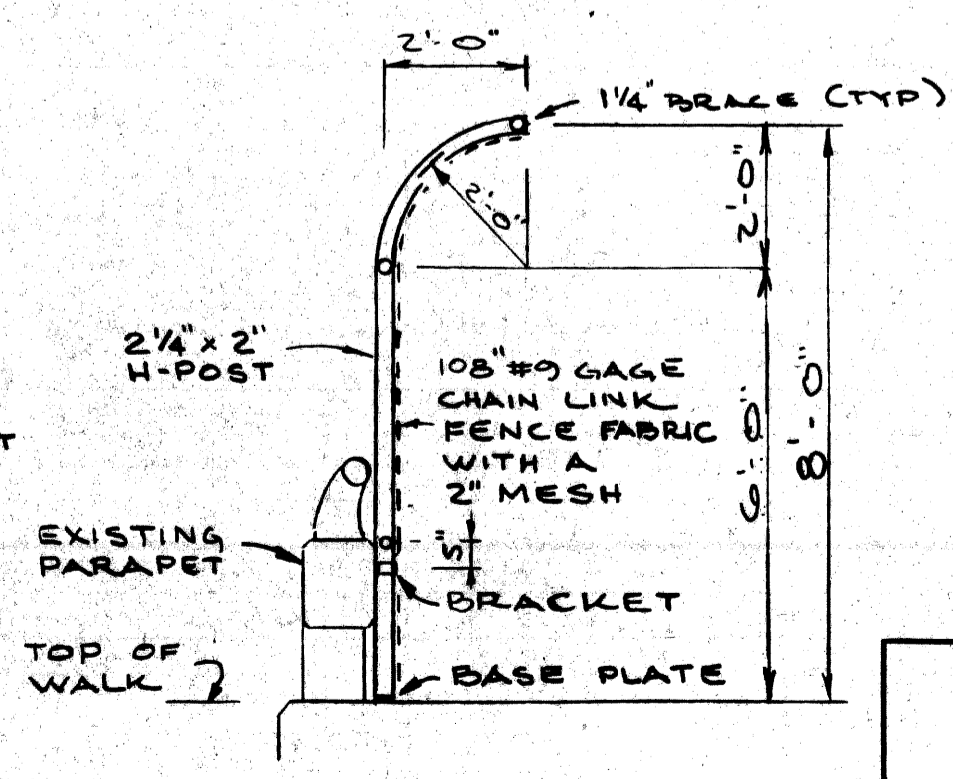
— BRACKET DETAILS —



— PLAN —



TYPICAL ELEVATION



SECTION A-A

PLANS PREPARED BY
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE

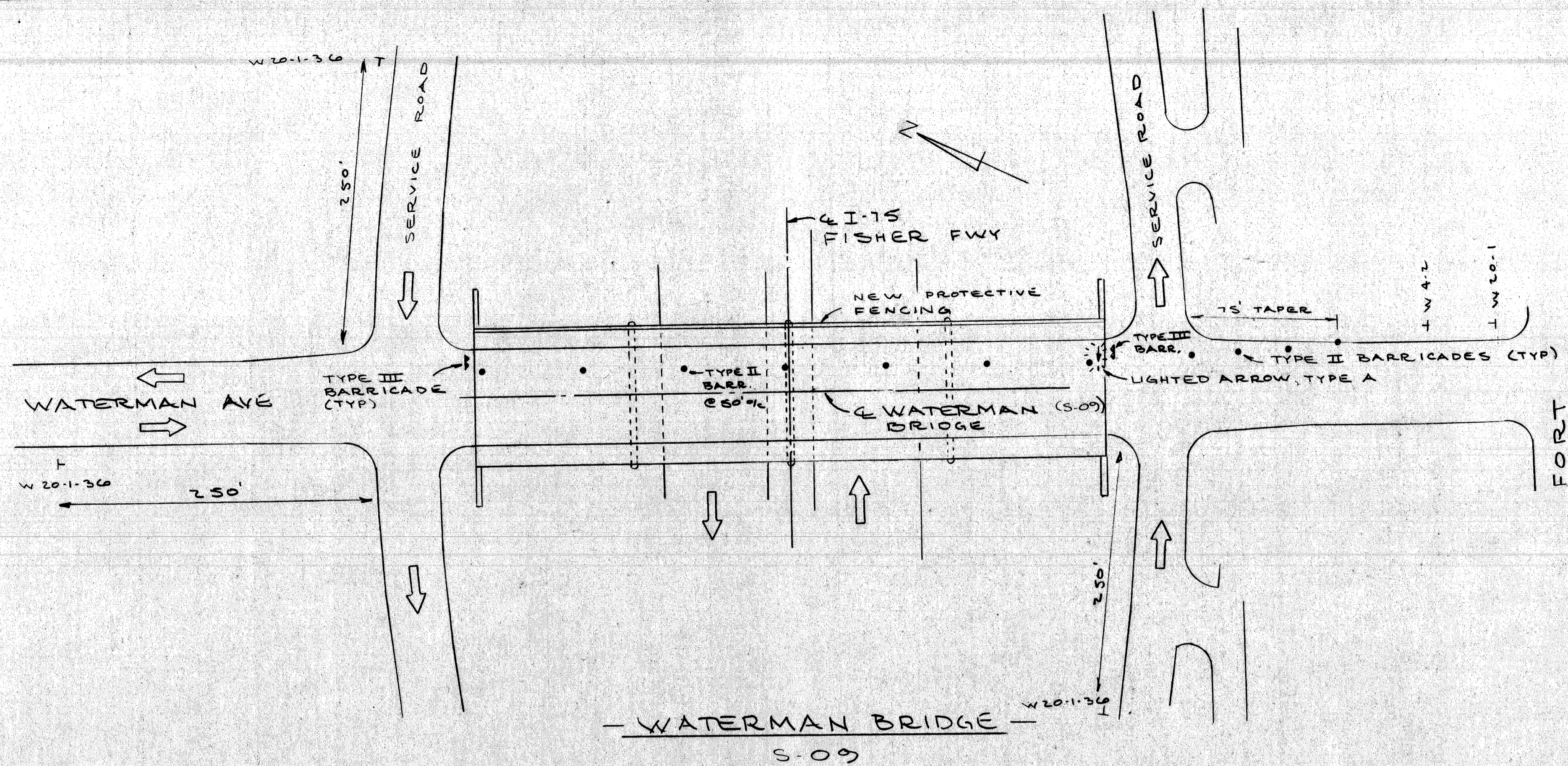
APPROVED *T. E. McSwain*
 STRUCTURAL ENGINEER

JOB No.
79-22-26 H

MICHIGAN DEPARTMENT OF TRANSPORTATION
 WATERMAN AVE OVER I-75
 PROTECTIVE SCREENING DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

JOB NO. 79-22-26 H
 SHEET 09 OF 82194

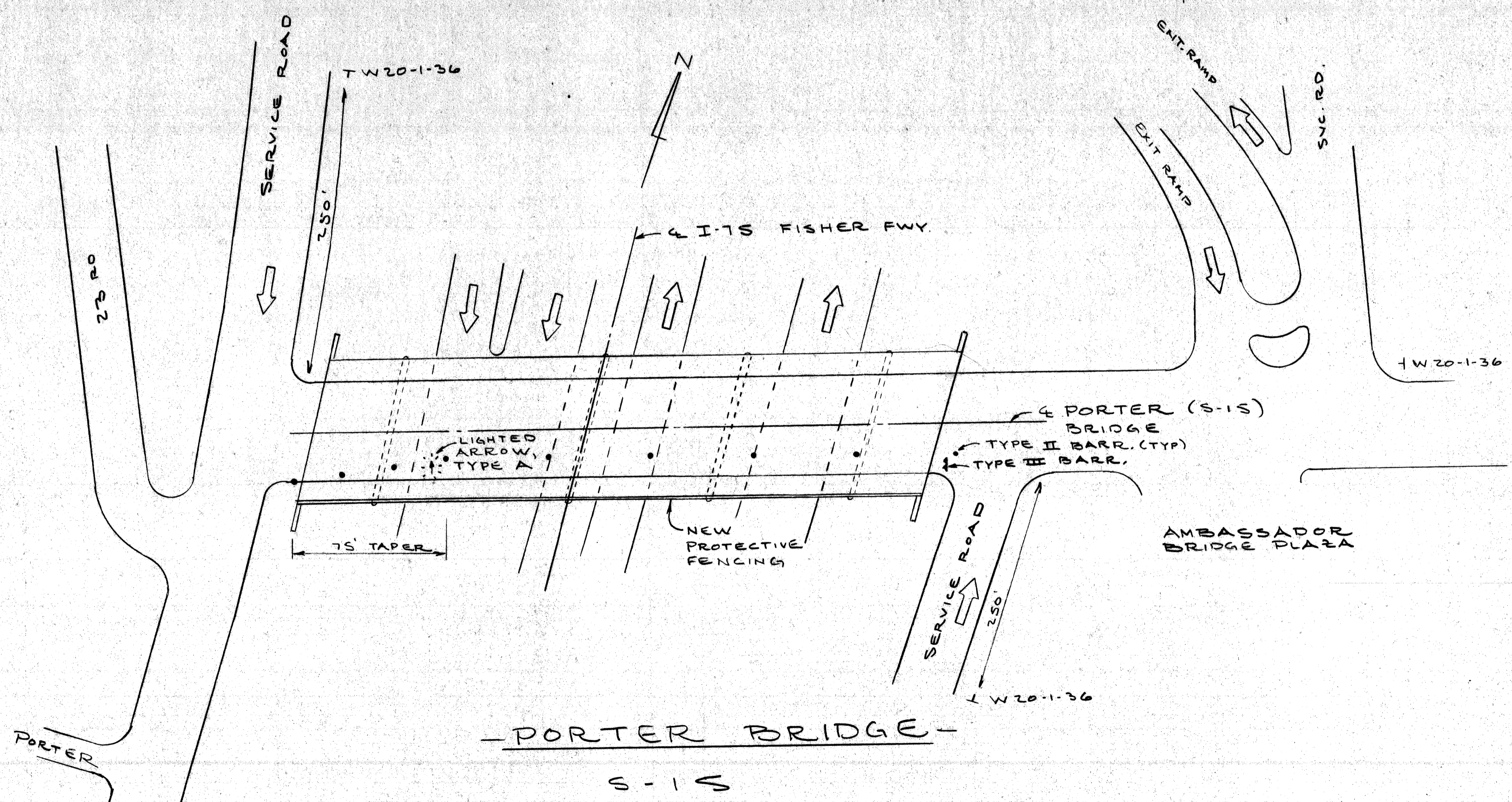


NOTES:

PLACE W 20-1, 36"x36", 8/0 TYPE B "CONSTRUCTION AHEAD" ABOUT 250' FROM THE SITE IN ALL DIRECTIONS OF ONCOMING TRAFFIC OR AS DIRECTED BY THE ENG.

REVERSE PROCEDURE FOR THE OPPOSITE SIDE.

MAINTAIN A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES.



PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE

APPROVED: *J.E. McManis*
 STRUCTURAL ENGINEER

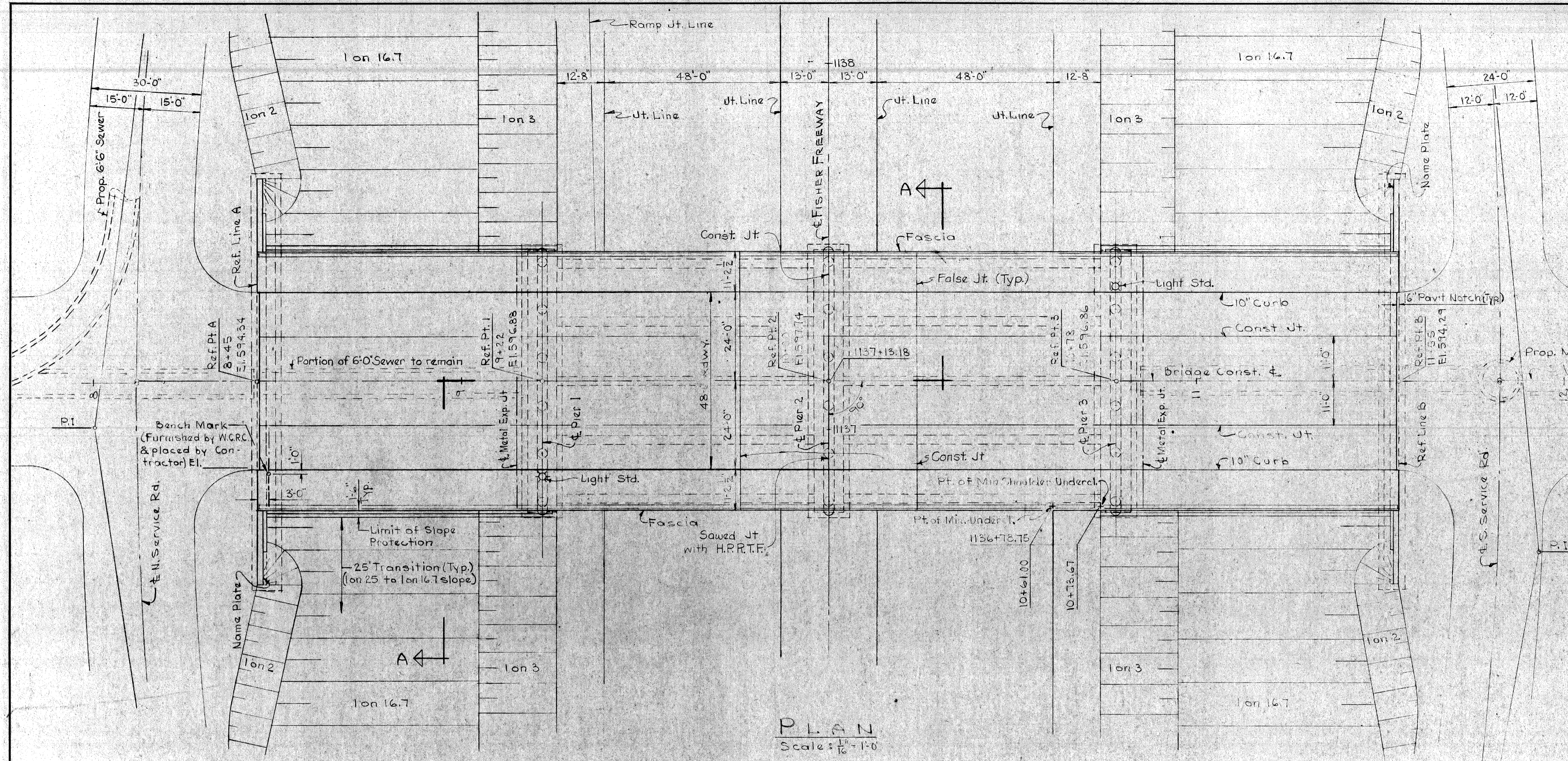
JOB No.
 79-22-26 H4J

**MICHIGAN DEPARTMENT OF TRANSPORTATION
 WATERMAN AND PORTER OVER I-75
 PROTECTIVE FENCING
 CONSTRUCTION SIGNING**

REVISIONS			
NO.	DESCRIPTION	DATE	BY

SQUAD BOSS	<i>[Signature]</i>	3-20-81
DRAWN BY	<i>[Signature]</i>	3-19-81
CHECKED BY	<i>[Signature]</i>	3-19-81
SHEET	OF	

S 09 & 15 OF 82194



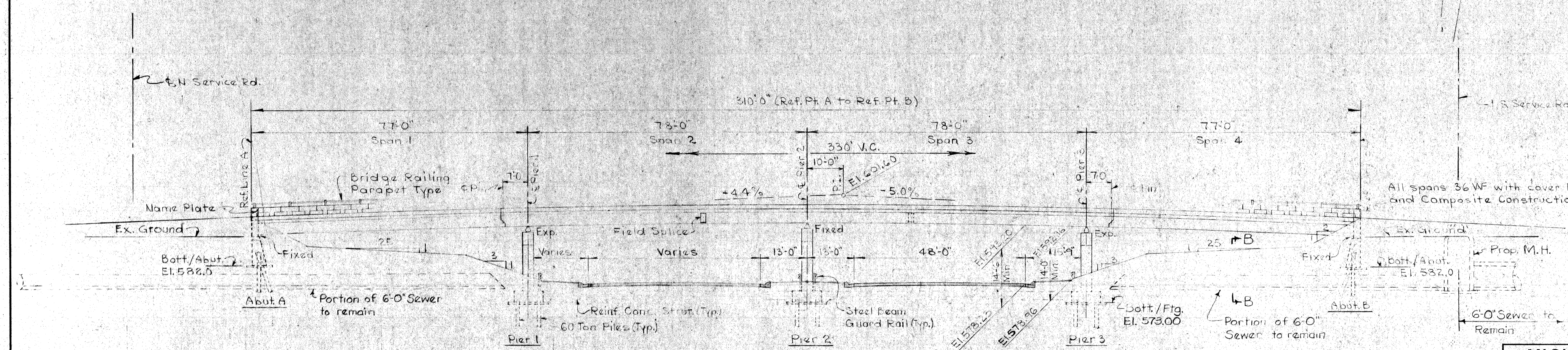
PLAN
Scale: 1/16" = 1'-0"

MISC. STRUCTURE QUANTITIES	
1 Item	
* Porous Material, Grade A (Compacted-in-Place)	475 C.Y.
Slope Protection, Class A	1300 S.Y.
Lightweight Fill Material (Compacted-in-Place)	7270 C.Y.
Porous Material, Grade B (Compacted-in-Place)	11 C.Y.
6" Perforated Clay Pipe Underdrain	136 L.F.
Removing 6" Sewer to Spring Line	225 L.F.

* Includes: Material Under Slope Paving see Std. SP-2
 * Includes: 3920 C.Y. behind Abut. A# under N. Service Rd.
 3350 C.Y. behind Abut. B# under S. Service Rd.

GENERAL NOTES

The design of this structure is based on the M.S.H.D. Standard Specifications for the Design of Highway Bridges - 1958 Edition (H20-316-44)
 Live load plus impact deflection not more than 1/1000 of span length or 1/350 of cantilever arm.
 Top of roadway slab and tops of curbs are parallel to the vertical curve.
 All piles have a minimum bearing capacity of 60 tons.
 Backfill material at structure abutments shall be compacted to a density of 75 percent.
 Grouted Riprap as Slope Protection Class A shall not be used on this Project.



ELEVATION
Scale: 1/16" = 1'-0"

COPY
EXISTING BRIDGE DETAILS
(NOT FOR CONSTRUCTION)

REVISIONS

M.S.H.D. Review Rev. 1-17-64 G.B. RJC

SQUAD LEADER *R. Cummings* DATE 6-11-64
 DRAWN BY BRACKNEY 3-7-64
 CHECKED BY *Cummings*
 CORRECT *M. J. ...*

PLANS PREPARED BY THE BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
 PHILIP J. NEUDECK WILLIAM E. KREGER AL BARBOUR

MICHIGAN STATE HIGHWAY DEPARTMENT

APPROVED: _____ COORDINATING ENGINEER
 APPROVED: _____ ENGINEER OF DESIGN

1-75 FISHER FREEWAY
 UNDER WATERMAN AVE.
 GENERAL PLAN OF STRUCTURE

ISSUE NO. DATE
 1320 310 1-19-65
 COUNTY JOB SHEET NO.
 STATE PROJECT
 509 of 821941