

BRIDGE PROTECTION SYSTEMS ATTACHMENT

MDTA 2023 Main BIN Biennial Inspection Report

Baltimore, MD

DCA24MM031

(104 pages)



BIN: BCZ472001

Z472001 Date: 03/29/2021

MD 695 OVER PATAPSCO RIVER

MARYLAND TRANSPORTATION AUTHORITY

FSK-Francis Scott Key Bridge

2023 MAIN BIN BIENNIAL INSPECTION REPORT

FOR

STRUCTURE No. BCZ472001

MD 695 OVER PATAPSCO RIVER



Firm Performing the inspection:	WBCM						
Inspection Team Leader	John Paul Devereaux (TL)	ASIR E-Signature 45518					
QC Engineer:	Nicholas Ward (QC)	ASIR E-Signature	43464				
	Name	Signature	PE Number				

Reports denoted with an "ASIR E-Signature" in the signature column have been reviewed and approved by the Inspection Team Leader and QC Engineer denoted in the name column.





BIN: BCZ472001

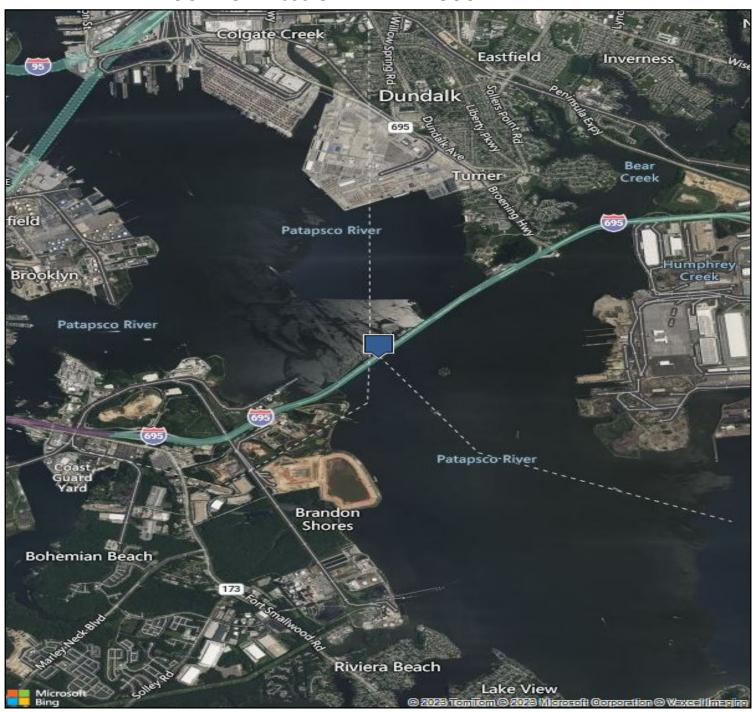
MD 695

OVER PATAPSCO RIVER

LOCATION MAP STRUCTURE No. BCZ472001

Date: 03/29/2021

LOCATION: I-695 OVER PATAPSCO RIVER





Maryland Transportation Authority

MARYLAND TRANSPORTATION AUTHORITY

BIN: BCZ472001 Date: 03/29/2021

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GENERAL INFORMATION





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3. General Information

- a. General Notes
- b. Executive Summary
- c. Bridge Description
- d. Inventory
- e. Studies and Recommendations
- f. General Plan and Elevation
- g. Identification of Fracture Critical Members and Fatigue Sensitive Details





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GENERAL NOTES

MDTA Priority Repair Codes:

- **E Emergency:** Items in this category represent conditions that affect either the integrity of the structure or public safety. MDTA is to be notified immediately upon finding the defect. Follow-up is required immediately after notification by the inspection team to determine course of action. Items of this category will be addressed immediately. Subsequently, they will be reclassified to another repair code prior to report completion.
- 1 First Priority: Items in this category are structural deficiencies on primary, load carrying members and safety deficiencies on other members that are not emergencies but require prompt attention. These defects should be among the first items to receive follow-up. First Priority items typically receive engineering evaluation with consideration for repairs within one year of reporting.
- **2 High Priority:** Items in this category are moderate deficiencies that do not pose any immediate concerns. These are nonstructural deficiencies on primary, load carrying members or structural deficiencies on secondary members and that do not present safety concerns. Typically, these deficiencies are repaired by system preservation contracts to avoid worsening to First Priority or the development of other First Priority deficiencies but may be deferred depending on available funding. Defects should be monitored and verified for condition during future inspections.
- **3 Medium Priority:** Items in this category are not serious deficiencies. These defects are primarily serviceability-related issues that are less likely to worsen significantly during the next several inspection cycles. Typically, these deficiencies are repaired by system preservation contracts, but may be deferred depending on available funding. Follow-up should be made after the high priority items and should be monitored in future inspections.

Condition Rating Definitions:

The following is the NBI general condition rating scale for Items 58, 59, and 60. This scale shall be used as a guide in conjunction with direction included in Chapter 4.1 of the MDTA Facilities Inspection Manual:

- N Not Applicable
- 9 Excellent Condition
- 8 Very Good Condition no problems noted.
- 7 Good Condition some minor problems.
- 6 Satisfactory Condition structural elements show some minor deterioration.
- 5 Fair Condition all primary structural elements are sound but may have minor section loss, cracking, spalling, or scour.
- 4 Poor Condition advanced section loss, deterioration, spalling, or scour.
- **3 Serious Condition -** loss of section, deterioration, spalling, or scour have seriously affected primary structural components. Local failures are possible. Fatigue cracks in steel or shear cracks in concrete may be present.
- **2 Critical Condition** advanced deterioration of primary structural elements. Fatigue cracks in steel or shear cracks in concrete may be present or scour may have removed substructure support. Unless closely monitored it may be necessary to close the bridge until corrective action is taken.
- 1 "Imminent" Failure Condition major deterioration or section loss present in critical structural components, or obvious vertical or horizontal movement affecting structure stability. Bridge is closed to traffic but corrective action may put bridge back in light service.
- 0 Failed Condition out of service; beyond corrective action.





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MD 695 OVER PATAPSCO RIVER

EXECUTIVE SUMMARY

BCZ472001, I-695 over Patapsco River, is in satisfactory condition overall.

The 2023 Biennial Inspection was performed over 31 days between January 9 to May 10, 2023.

SI&A Item 58 – Deck: The reinforced concrete deck is in overall satisfactory condition (Item 58 Rating = 6). There are numerous spalls and delaminations throughout the concrete wearing surface, parapets, fascias, and median. There are numerous concrete repair patches throughout the concrete wearing surface and fascia. Repairs were performed since the previous inspection; spalls and delaminations in the wearing surface, and parapets were patched and sealed. The following six (6) Priority 1 repair defects exist in the deck: Repair ID 2023-BCZ472001(S01-S16)-00003 in Span S01 for loose anchor bolt nuts at the west low level light pole base plate connection. Repair ID 2023-BCZ472001(S01-S16)-00005 in Span S03 for a loose anchor bolt nut at the west low level light pole base plate connection. Repair ID 2023-BCZ472001(S01-S16)-00006 in Span S04 for loose anchor bolt nuts on the "NO STOPPING ON BRIDGE" sign on the east parapet. Repair ID 2023-BCZ472001(S01-S16)-00015 in Span S07 for a loose anchor bolt nut at the west low level light pole base plate connection. Repair ID 2023-BCZ472001(S17-S19)-00076 in the Span S18 deck for a deck spall in the Northbound Right Lane, 15'-0" north of PP38. Repair ID 2023-BCZ472001(S20-S37)-00091 for loose top anchor bolt nut and washer at the west low level light pole connection to the parapet in Span S23.

SI&A Item 59 – Superstructure: The superstructure is in overall satisfactory condition (Item 58 Rating = 6). Throughout the girder spans there are random areas of section loss in the girders, crossframes, and bearings, and pack rust at splices. There is minor pack rust and loss of bearing at several expansion and fixed bearings. Throughout the steel truss, there are numerous areas of minor corrosion, pack rust, and painted over section loss. There is moderate corrosion and pack rust at the stringer bearings and gusset plates. The stringer bearings and bottom chord field splice plates are deformed due to pack rust throughout. Several repairs were performed since the previous inspection; areas have been spot cleaned and painted, and one (1) Priority repair for differential settlement at the PP41 Joint (ID 2021-BCZ472001 (S17-S19)-00341) was repaired. The following six (6) Priority 1 repair defects exist in the superstructure: Repair ID 2023-BCZ472001(S17-S19)-00386 in Span S18 for a crack in the first diaphragm north of Floorbeam 29 in Bay 2. Repair ID 2021-BCZ472001(S20-S37)-00005 in Span S26 for a crack in the weld at Girder 7, Crossframe 3. Repair ID 2021-BCZ472001(S20-S37)-00080 in Span S34 for a crack in the weld at the Girder 7 bottom longitudinal stiffener at the field splice. Repair ID 2021-BCZ472001(S20-S37)-00001 in Span S34 for a crack in the weld at the Girder 7 bottom longitudinal stiffener north of the field splice. Repair ID 2022-BCZ472001(S20-S37)-00001 in Span S34 for a crack in the weld at the Girder 7 bottom longitudinal stiffener south of the field splice. Repair ID 2023-BCZ472001 (S20-S37)-00072 in Span S34 for the cracked Bearing 2 bearing plate at Pier 34.

SI&A Item 60 – Substructure: The concrete piers are in overall satisfactory condition (Item 58 Rating = 6). Throughout the concrete pier columns, pier caps, and struts there are cracks, spalls, and areas of delamination. These delaminations are at the edges of the pier caps and on the outboard faces of the columns, beneath the bearings. A few repairs were performed since the previous inspection; delaminations in the concrete have been patched. There are no new Priority 1 repairs in the Substructure.

The Low-Level Lights are now completed in the Survey 123 database and were not inspected as part of this biennial inspection; however, the portion below the parapet were inspected during this inspection.

There are no LOC's included in this report. There are no components with a condition rating of 4 or less for this bridge.

There are no flammable or stockpiled materials stored on or under this structure.

A hydrographic survey was completed during this inspection cycle and is included in the BCZ472001(S17-S19) asset documents. The 2023 Hydrographic Survey Report indicates similar underwater topography throughout with minor channel bottom fluctuations, mostly adjacent to the piers. The largest channel bottom changes are in the navigation channel (Span 18), east of the bridge due to apparent dredging/widening since the previous cycle. Channel elevations are approximately 5' to 6' deeper in areas. Refer to the 2023 Hydrographic Survey Report for additional information.





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Non-destructive (Ultrasonic) Testing was performed on 32 pins in accordance with the developed pin testing schedule. In addition the steel wind hear pin at PP61 in Span 18 was tested. The pin testing schedule is located in the 2022 Ultrasonic Testing Report. There were no abnormal or defect indications found on any of the pins tested. Refer to the 2022 Ultrasonic Testing Report, included at the end of this report, for additional information.

Refer to the Studies and Recommendations Summary for further details on special inspections.





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MD 695 OVER PATAPSCO RIVER

BRIDGE DESCRIPTION

Bridge No. BCZ472001 (Francis Scott Key Bridge) carriers Interstate 695 (Inner Loop and Outer Loop) over the Patapsco River. The bridge has an overall length of approximately 9,087 feet from center-to-center bearings between the North and South Abutments. The bridge has an out-to-out width of 61'-2" +/-. The curb-to-curb width (not including a 2'-0" median barrier) is 56'-0" and carries four (4) lanes of traffic, two (2) lanes in each direction.

Bridge No. BCZ472001 (S01-S16) (South Approach Spans) has an overall length of approximately 2,847 feet from center-to-center of bearings between the South Abutment and the Pier 16, Span 16 bearings. The South Approach Spans consist of seven (7) continuous painted steel girders, with thirteen (13) shorter/shallower spans over land and three (3) longer/deeper spans over water. The span arrangement consists of one 4-span unit, and four 3-span units. The deck consists of reinforced concrete with stay-in-place forms present in all spans. The substructure consists of 16 two-column rigid frame reinforced concrete piers and one (1) reinforced concrete abutment. All piers have solid concrete caps with 0 to 2 intermediate concrete struts depending on the height of the pier. The bridge is not posted for any special load restrictions. The controlling (minimum) parapet height is 2'-8", which is at the East Parapet of the South Approach.

Bridge No. BCZ472001(S17-S19) (Main Spans) has an overall length of approximately 2,640 feet from center-to-center bearings between Pier 16 and Pier 19. The Main Spans are comprised of the three (3) through-truss spans that cross the primary navigation channel of the Patapsco River. The two (2) side spans (Spans 17 and 19) are 720-foot long through-truss spans measured from center-to-center bearings while the main span (Span 18, over the navigation channel) consists of a 1200-foot long suspended deck arch truss span measured from center-to-center bearings. The deck consists of reinforced concrete with stay-in-place forms present in all spans. The substructure consists of two (2) Potomac-type rigid frame piers (Piers 17 and 18) and one (1) two-column rigid frame reinforced concrete pier (Pier 19). Pier 19 has a concrete cap with two (2) intermediate concrete. There are fenders at Piers 17 and 18.

Bridge No. BCZ472001(S20-S37) (End Approach Spans) has an overall length of approximately 3,596 feet from centerto-center of bearings between Pier 19. The End Approach Spans consist of seven (7) continuous girders, with twelve (12) shorter/shallower spans over land and six (6) longer/deeper spans over water. The span arrangement consists of six 3-span units. The deck consists of reinforced concrete with stay-in-place forms present in all spans. The substructure consists of fifteen (15) two-column rigid frame reinforced concrete piers, three (3) solid wall piers and one (1) reinforced concrete abutment. All two-column piers have solid concrete caps with 0 to 2 intermediate concrete struts depending on the height of the pier. The bridge went under construction in 1972 and opened to the public in 1977. No major rehabilitation has occurred since opening to the public. At the time of inspection, the controlling vertical under clearance along Authority Drive is 15'-6". The advanced warning signs at Northwest approach indicate 15'-6"; however, it is posted on the bridge for 15'-3". The minimum vertical under clearance along Authority Drive is located in Span 35, beneath Girder 7.





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INVENTORY

For purposes of this report, defect locations are reported in the following manner:

Superstructure Members are numbered from West to East and Substructure Units and Spans are numbered from South to North. Directions are based on I-695 running North and South (i.e. north = northbound outer loop, south = southbound inner loop). The word "panel" is defined as the distance between consecutive cross frames or floorbeams and are numbered from South to North. The word "bay" is defined as the distance between consecutive girders or stringers and are numbered from West to East. Truss panel points are numbered from PP01 to PP89 with Span 17 from PP01-PP25 (PP25 at Pier 17), Span 18 from PP25-PP65 (PP65 at Pier 18), and Span 19 from PP65-PP89 (PP89 at Pier 19). Pier 16 from the base of the pedestals down is incorporated in the South Approach Spans, BCZ472001(S01-S16), report.

Parapet height measurements obtained during the 2022 inspection are as follows:

- Begin Approach, East Parapet (NB): 2'-8"

- Begin Approach, Median Parapet: 2'-9"

- Begin Approach, West Parapet (SB): 2'-9"

- End Approach, East Parapet (NB): 2'-9"

- End Approach, Median Parapet: 2'-9"

- End Approach, West Parapet (SB): 2'-9"

There were no inaccessible locations due to stockpiles of materials or ongoing construction projects during 2023 inspection.

The Main Spans (S17-S19) cross the Patapsco River. The Patapsco River runs from West to East.

The Low-Level Lights are now completed in the Survey 123 database and were not inspected as part of this biennial inspection; however, the portion below the parapet were inspected during this inspection.

Right lane closures of the Outer (northbound) Loop and Inner (southbound) Loop were used to complete the inspection. The left lane topside in both directions was visually inspected from the right lane.

For Spans S01-S16: The substructure and superstructure of Spans S01-S13 were inspected using a 120' man-lift. The superstructure of Spans S14-S16 were inspected using an A62 snooper. The substructure of Spans S14-S16 were inspected using a 80' manlift on a barge with a safety boat. Coordination with MDTA is required to access the fenced in area under the bridge. Contact FSK Operations at 410-537-7677.

For Spans S17-S19: The upper truss members and suspender cables were inspected using 135' and 80' manlifts and rope access with SPRAT certified climbers. The deck underside, stringers, floorbeams, and lower truss members were inspected with a 32' and 62' snoopers deployed from the right lanes in both directions. A barge-mounted 125' manlift was used to inspect the substructure. A boat was used to inspect the fenders and dolphins.

For Spans S20-S37: The structure was inspected using an 80' manlift to inspect the underside of Spans 26-34, a 60'-0" snooper deployed from the right lanes for the underside of Spans 20-25, a ladder for the underside of 35-37, and a barge and 125' manlift to inspect the substructure of Spans 20-25. The area under Spans 1-13 and 26-33 is gated. Inspectors can request access from Facility Operations at 410-537-7677.





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MD 695 OVER PATAPSCO RIVER

STUDIES AND RECOMMENDATIONS

Overall, BCZ472001 is in satisfactory condition.

A hydrographic survey was completed during this inspection cycle and is included at the end of this report. The 2023 Hydrographic Survey Report indicates similar underwater topography throughout with minor channel bottom fluctuations, mostly adjacent to the piers. The largest channel bottom changes are in the navigation channel (Span 18), east of the bridge due to apparent dredging/widening since the previous cycle. Channel elevations are approximately 5' to 6' deepe r in areas. Refer to the 2023 Hydrographic Survey Report for more information.

Non-destructive (Ultrasonic) Testing was performed on 32 pins in accordance with the developed pin testing schedule. In addition the steel wind hear pin at PP61 in Span 18 was tested. The pin testing schedule is located in the 2022 Ultrasonic Testing Report. There were no abnormal or defect indications found on any of the pins tested. Refer to the 2022 Ultrasonic Testing Report, included at the end of this report, for additional information.

BCZ472001(S17-S19) is in similar condition compared to the previous inspection. There are no recommendations to improve or maintain the bridge condition based on holistic evaluation.

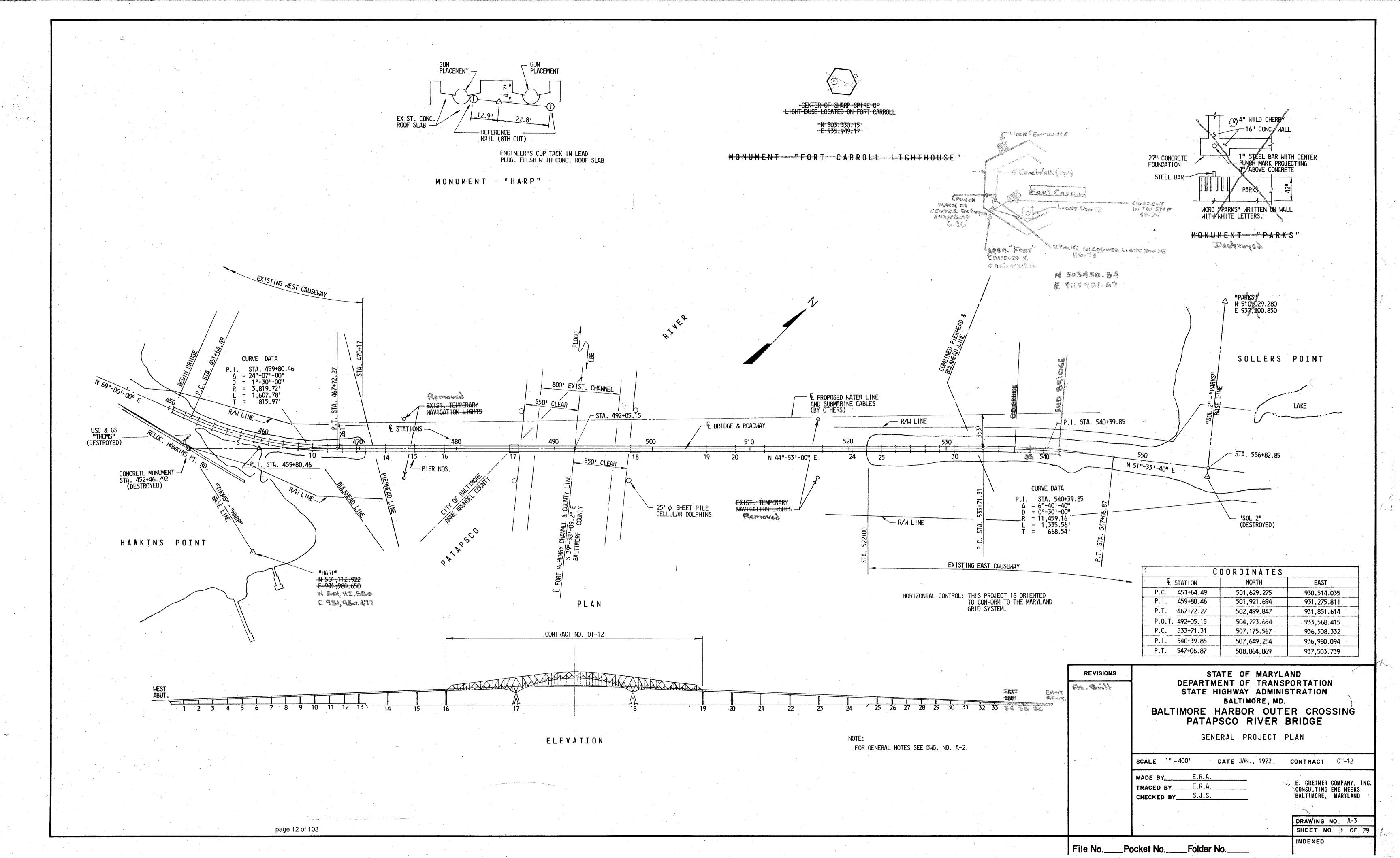
The following is a list of repairs have been performed since the previous inspection:

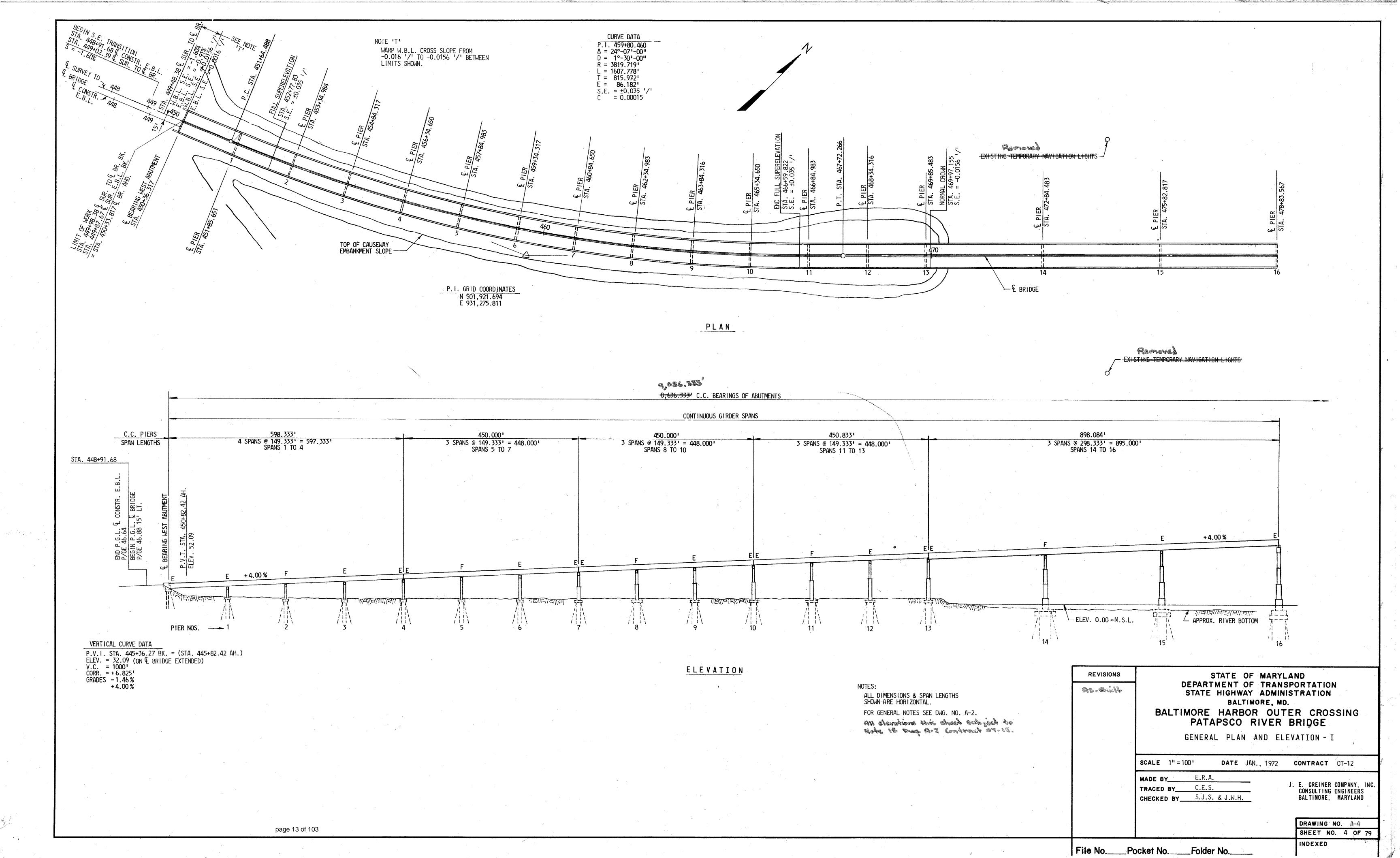
- Spalls, and delaminations have been patched in the wearing surface, parapets and substructure units.
- Select areas of moderate corrosion, and section loss have been painted over in the steel truss members.

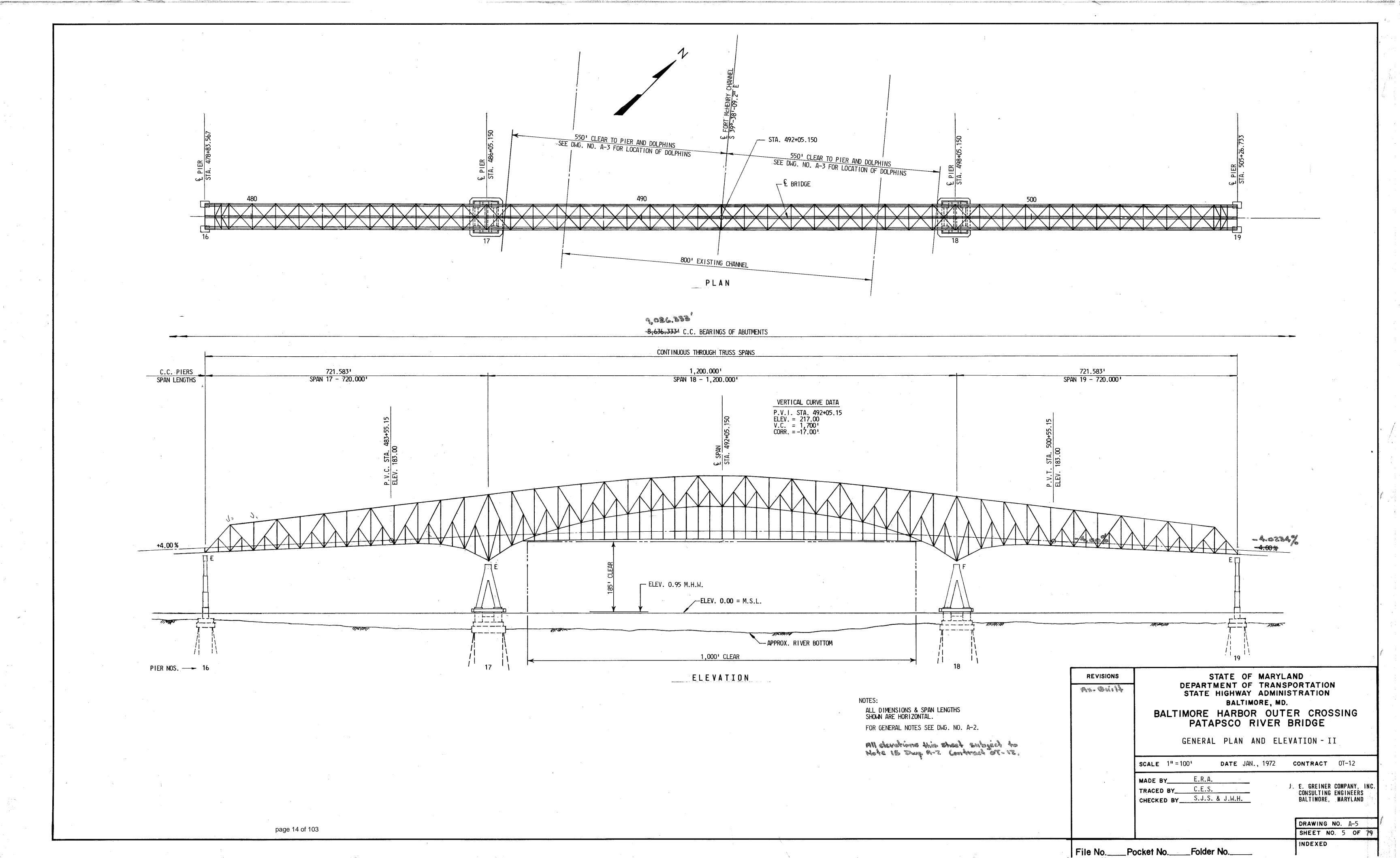
The following is a list of recommended repairs that are not tracked using individual repairs in ASIR, but should be addressed as part of the MDTA Operations' Preventative Maintenance Plan:

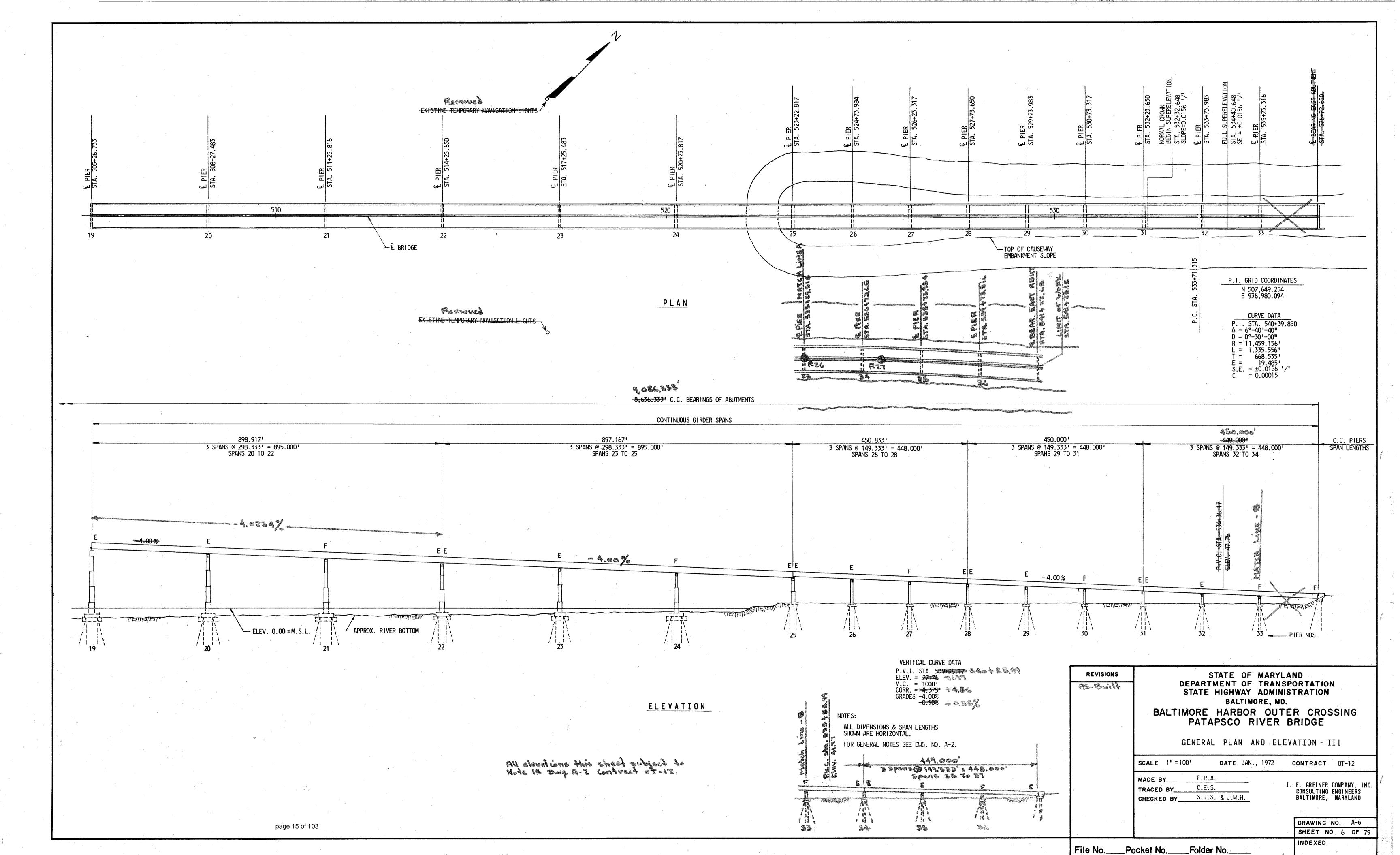
- Clean out the joint seals, joint troughs and scuppers.
- Seal the deck wearing surface.
- Replace damaged or missing parapet delineators.
- Clean and paint areas of minor corrosion.
- Replace missing screws on utility box covers.
- Remove debris accumulation from lateral connection plates.

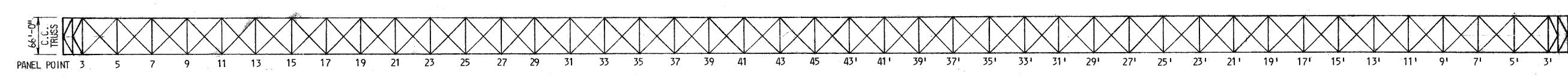




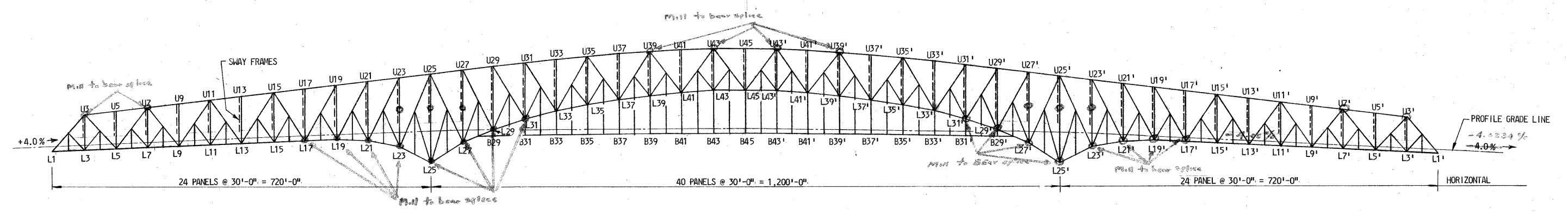




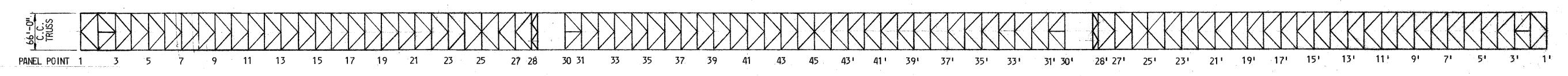




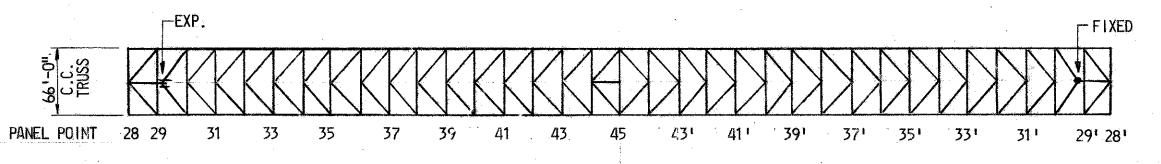




ELEVATION



BOTTOM LATERAL BRACING



SUSPENDED ROADWAY LATERAL BRACING

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NOTES:

FOR GENERAL NOTES SEE DWG. NO. A-2. All Elevetions this short Subject to Note 15 Dug- A-2 Cont. 07-12

ELEVATIONS											
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3	166.600	221.900	***	154.900	_	28	193.880	-	257.090	186.460	186.460
4	167.800	-	189.600	156.100		29	194.579	318.900		202.380	187.159
5	169.000	229.400	***	157.300	-	30	195.235	-	270.640	212.380	187.815
6	170.200	_	197.100	158.500	_	31	195.849	325.900	-	222.380	188.429
7	171.400	236.900		159.700		32	196.421		281.160	229.400	189.001
8	172.600		199.500	160.900	_	33	196.951	332.600		236.420	189.531
9	173.800	244.400	_	162.100	_	34	197.438	· -	287.860	241.465	190.018
10	175.00	-	207.000	163.300		35	197.882	339.300		246.510	190.462
11	176.200	251.900		164.500	-	36	198 285	-	297.950	251.555	190.865
12	177.400		209.400	165.700	_	37	198.645	344.800	-	256.600	191.225
13	178.600	259.400	` <u> </u>	166.900	-	38.	198.962	_	303.450	260.050	191.542
14	179.800	-	216.900	168.100		39	199.238	350.300	-	263.500	191.818
15	181.000	266.900		169.300	=4	40	199.471		310.350	266.950	192.051
16	182.200	_	219.300	170.500	-	41	199.661	354.200	-	270.400	192.241
17	183.398	274.400		171.700		42	199.809	_	314.250	272.350	192.389
18	184.562	_	226.800	172.865	***	43	199.915	358.100	* ·	274.300	192.495
19	185.685	281.900	-	174.030	-	44	199.979	_	316.200	274.300	192.559
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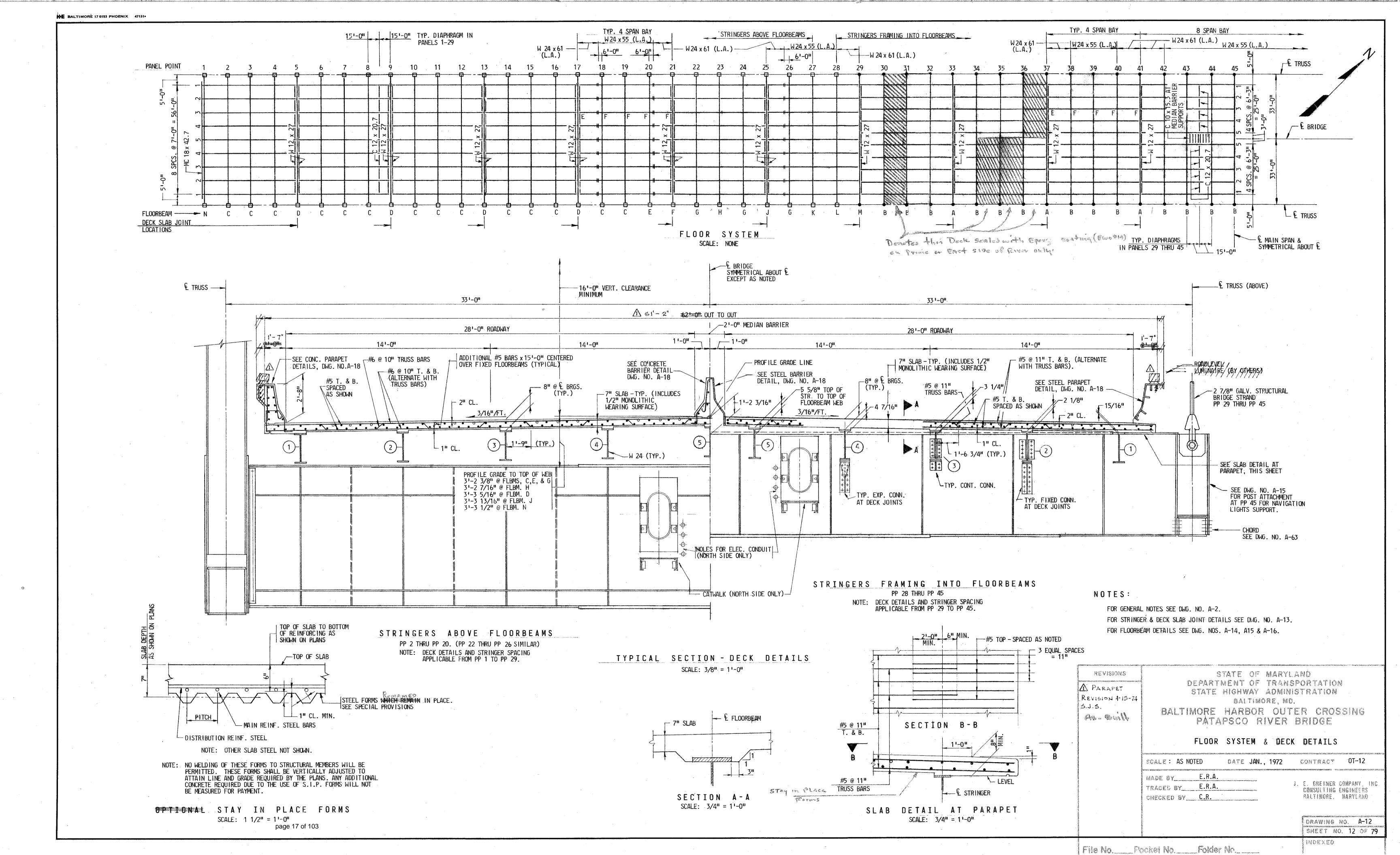
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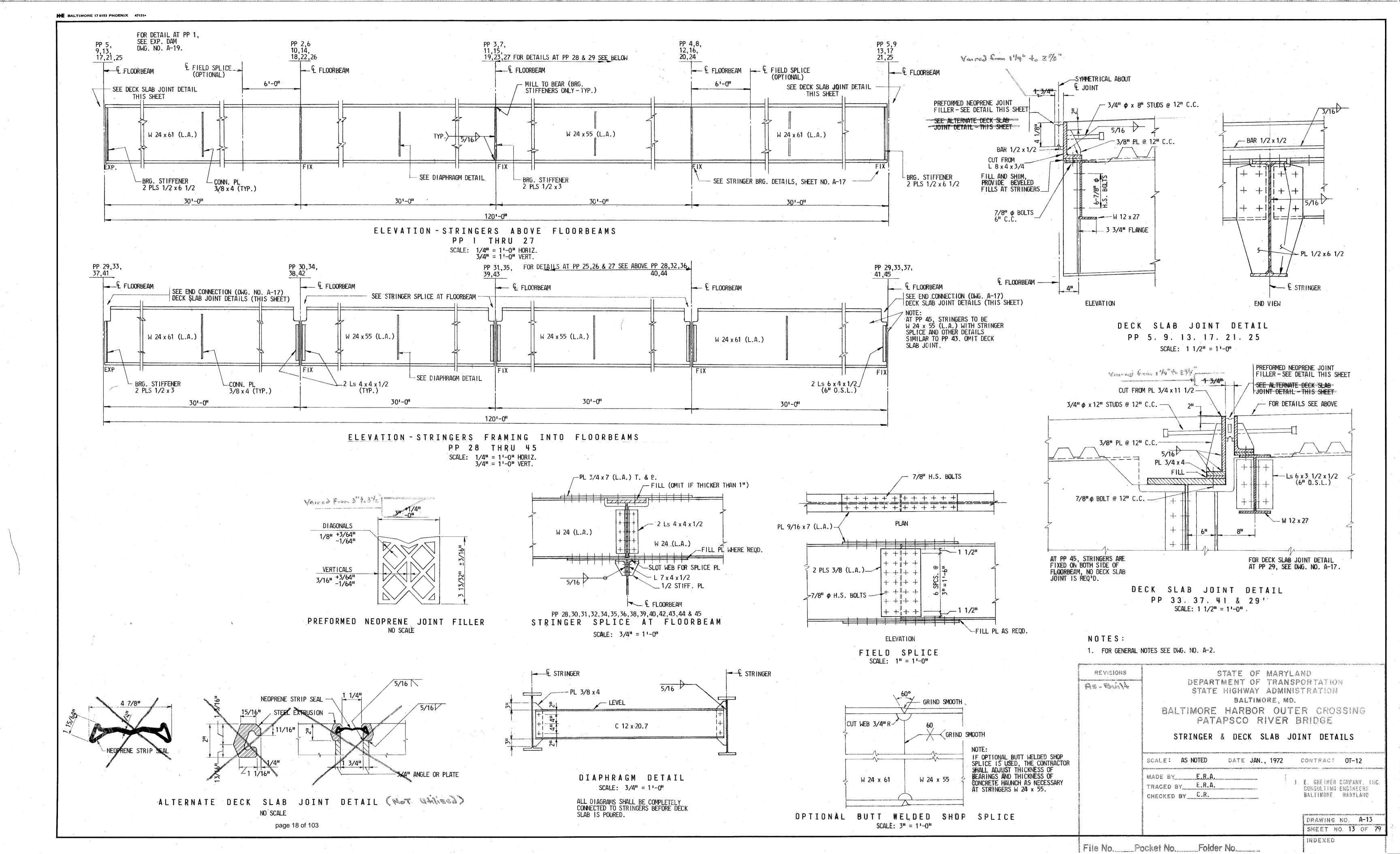
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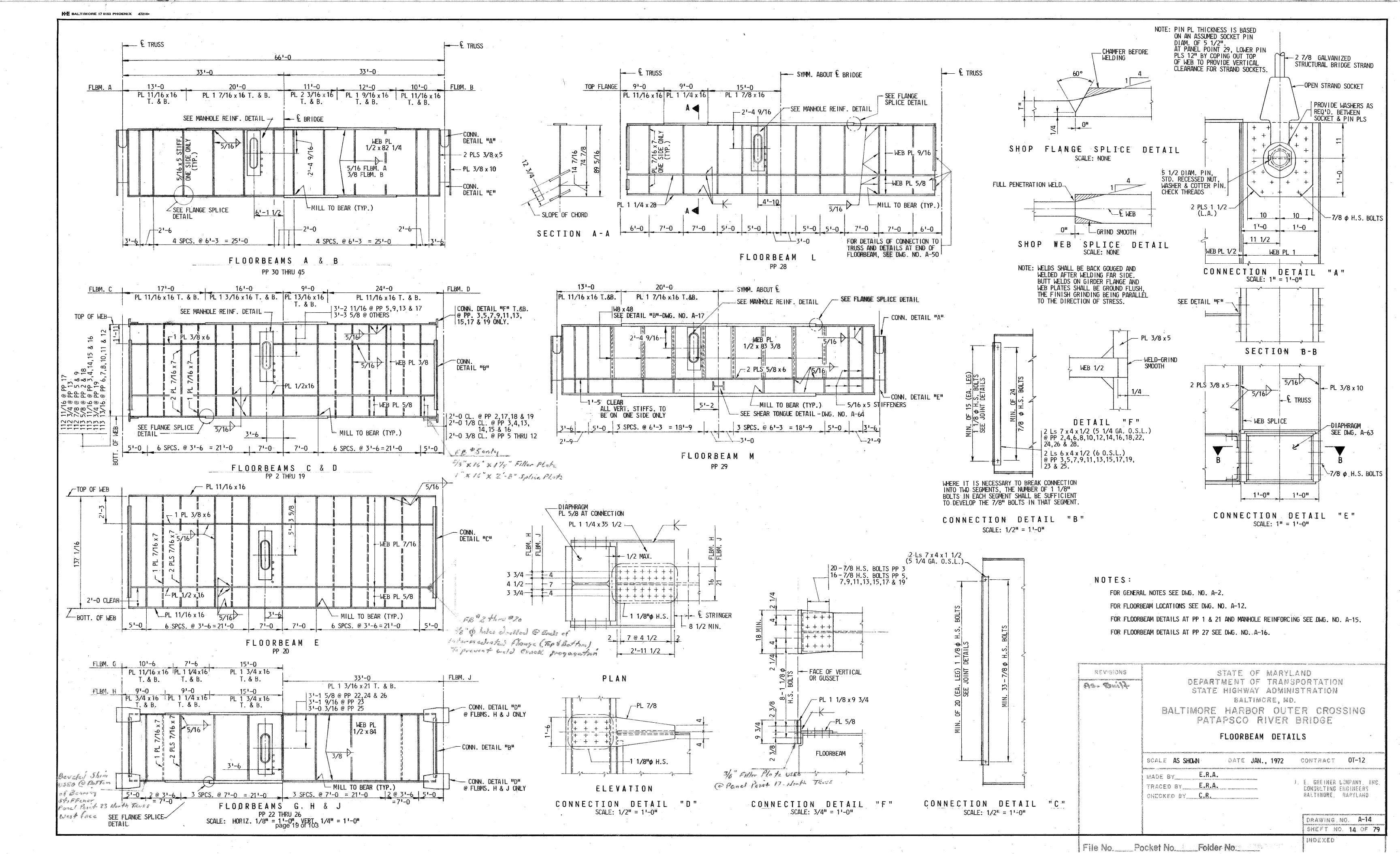
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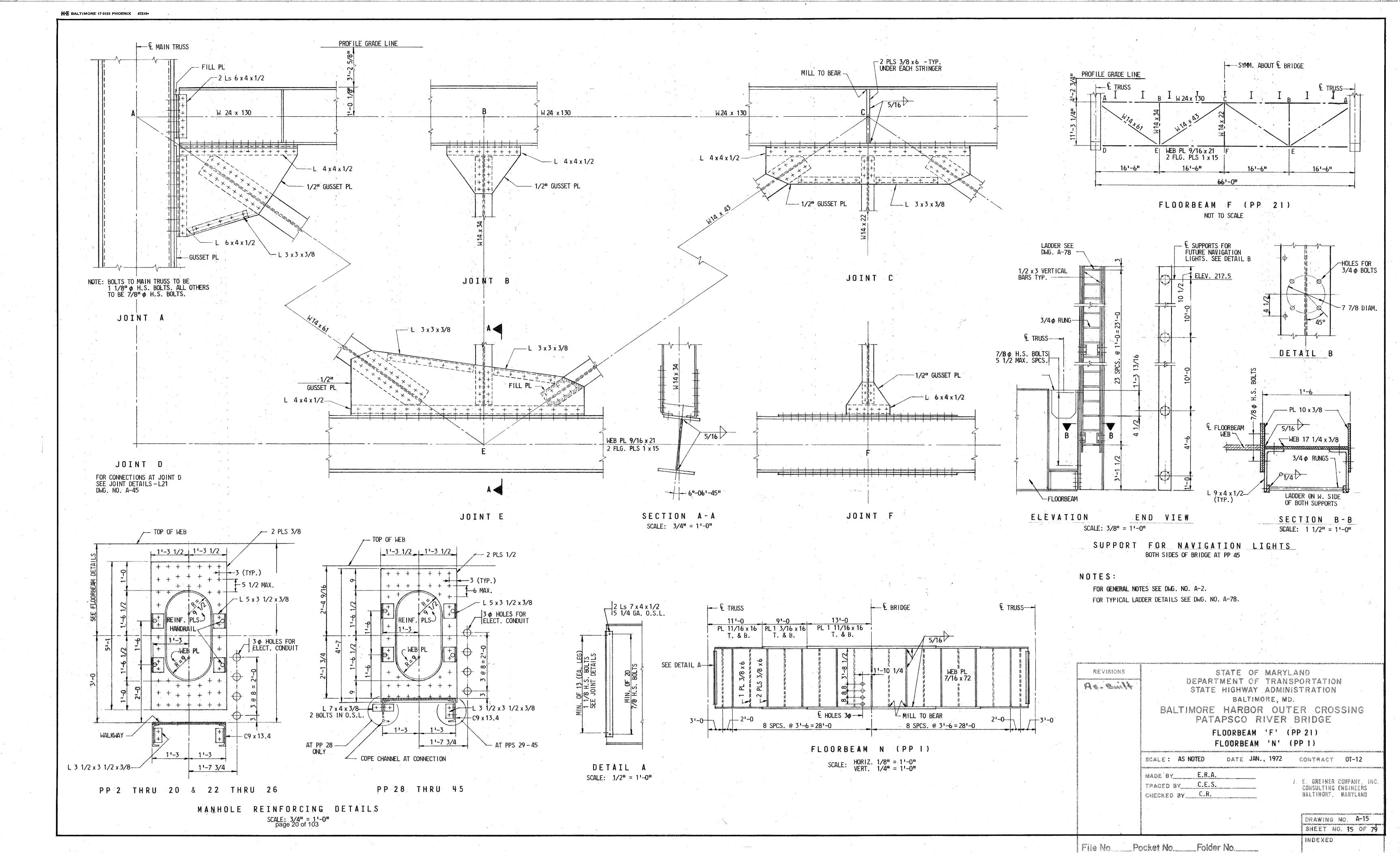
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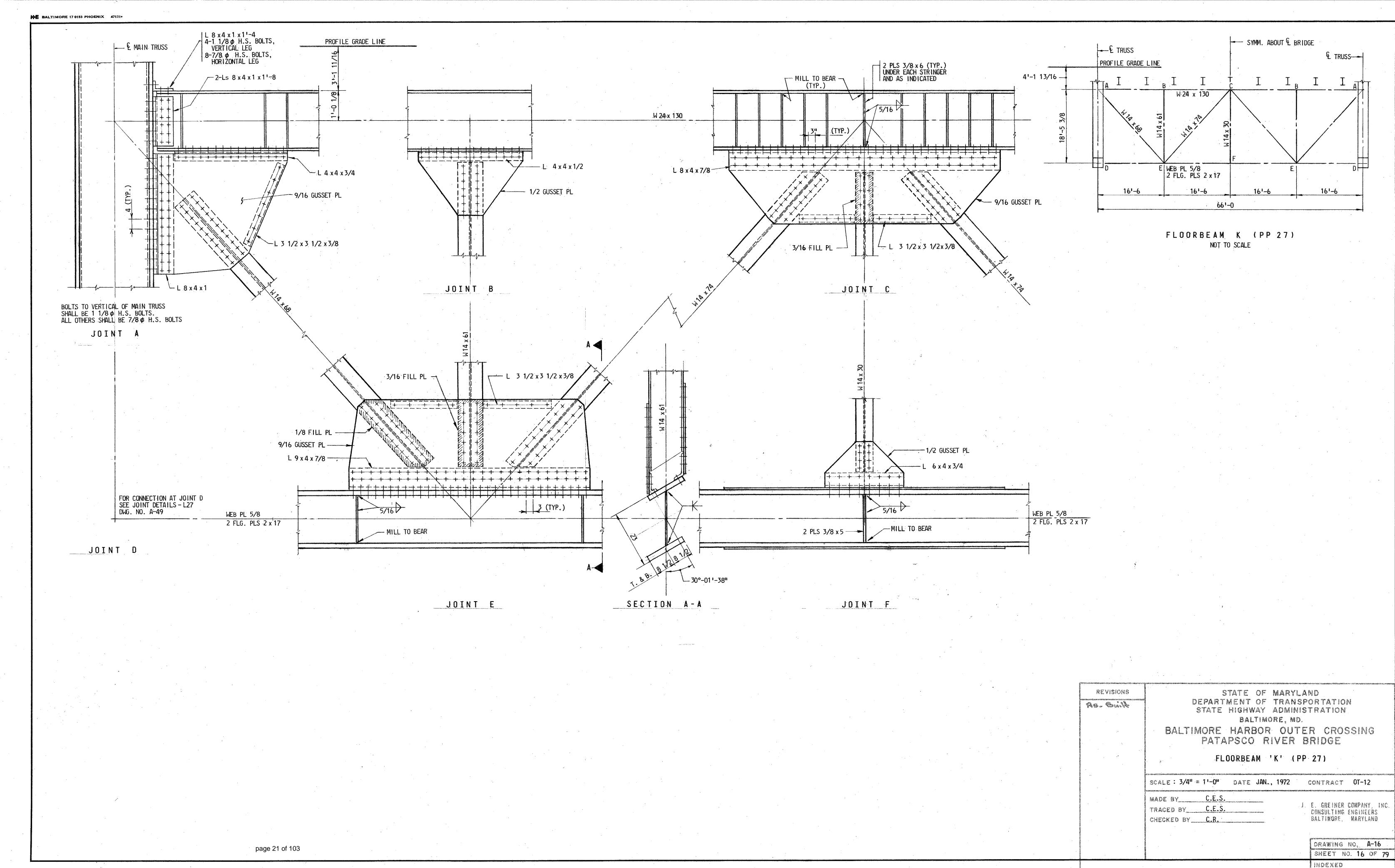
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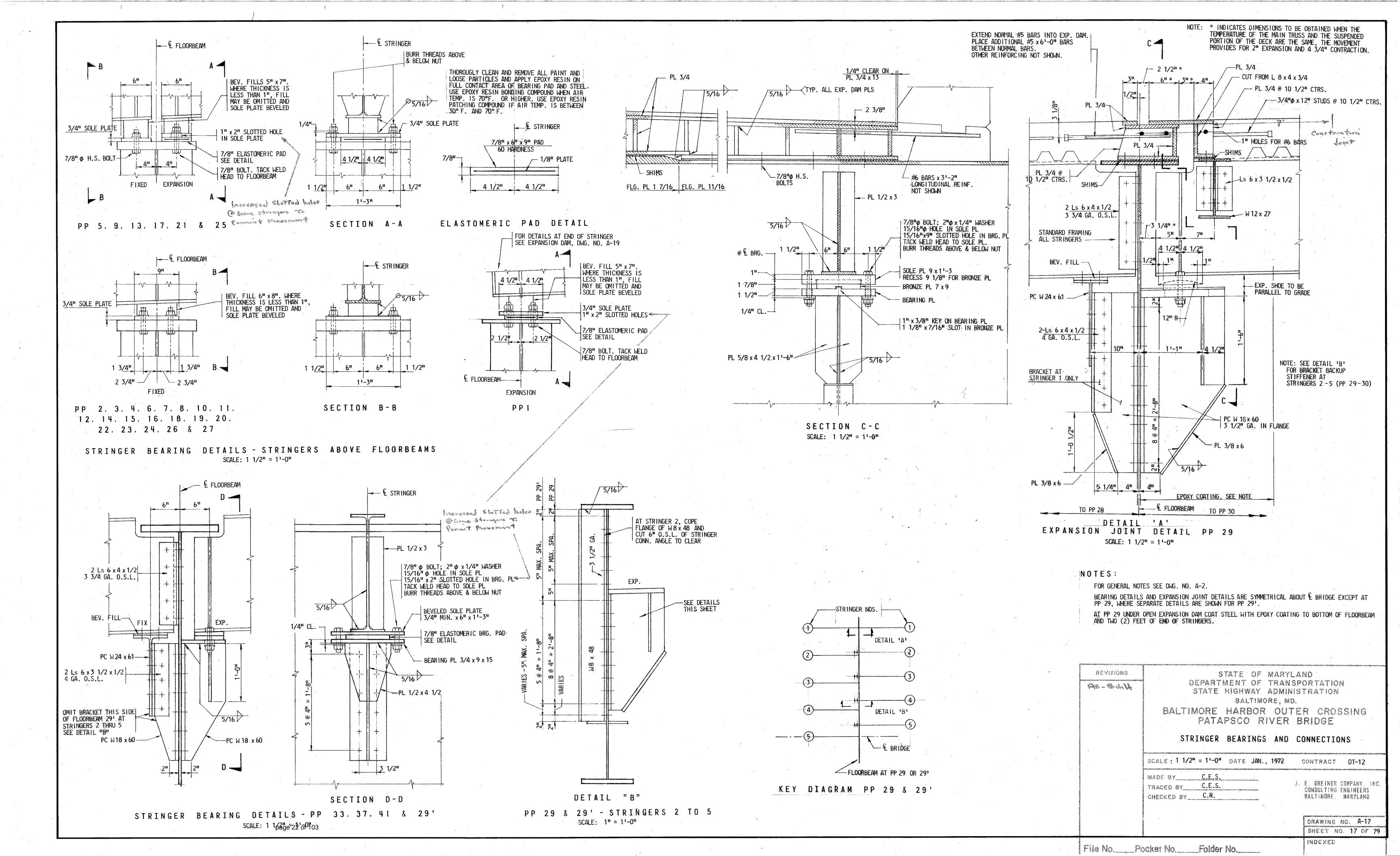


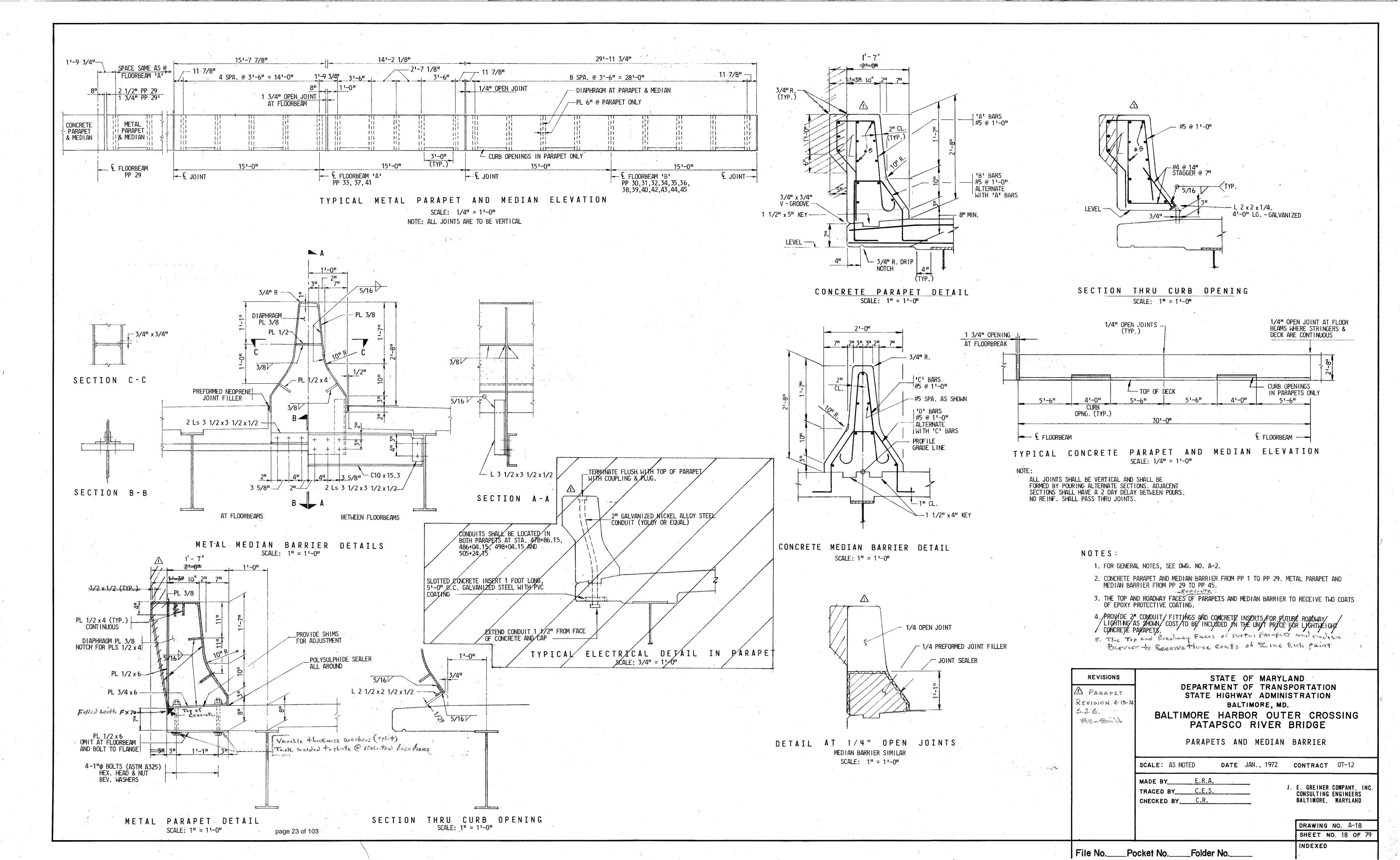


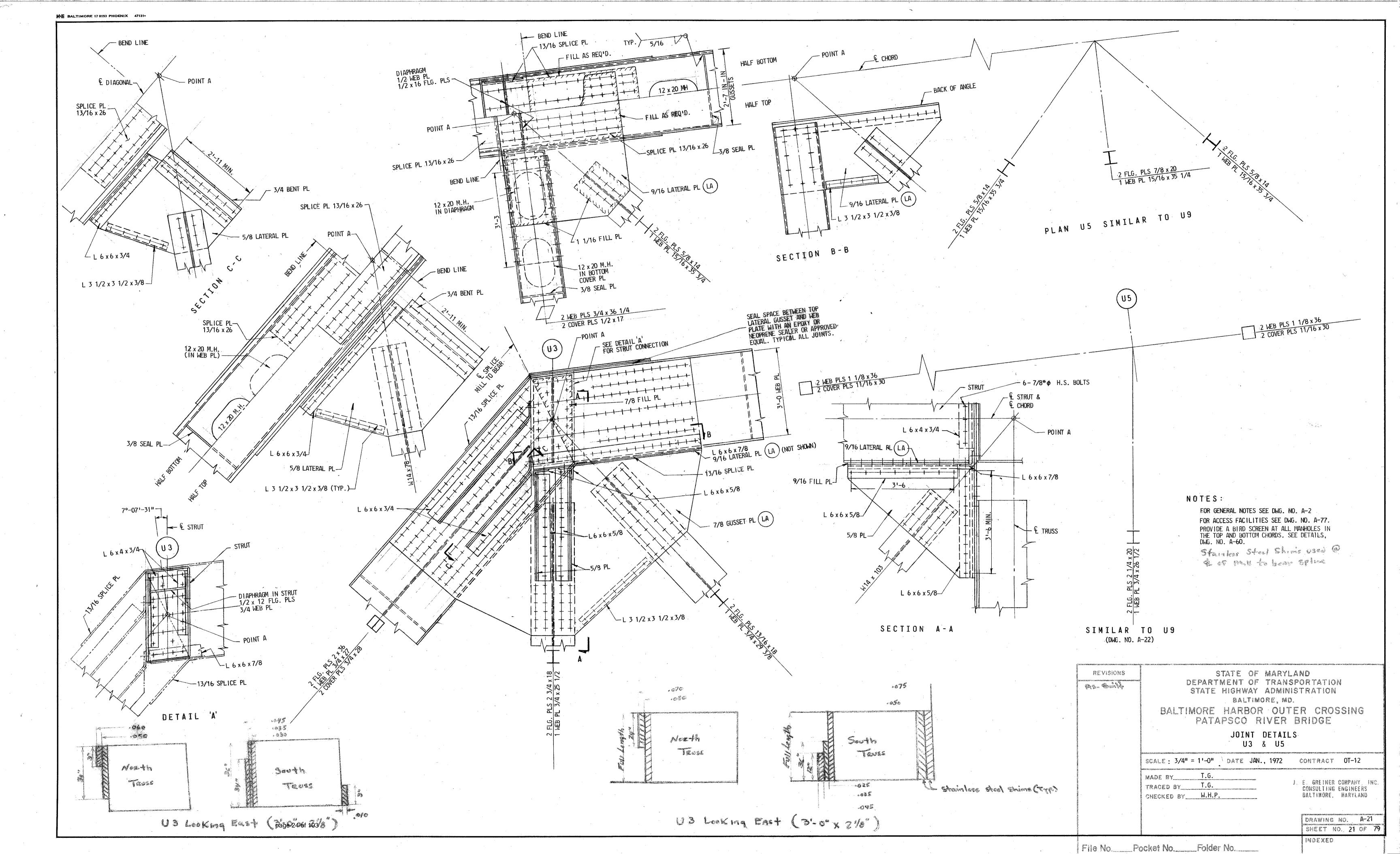


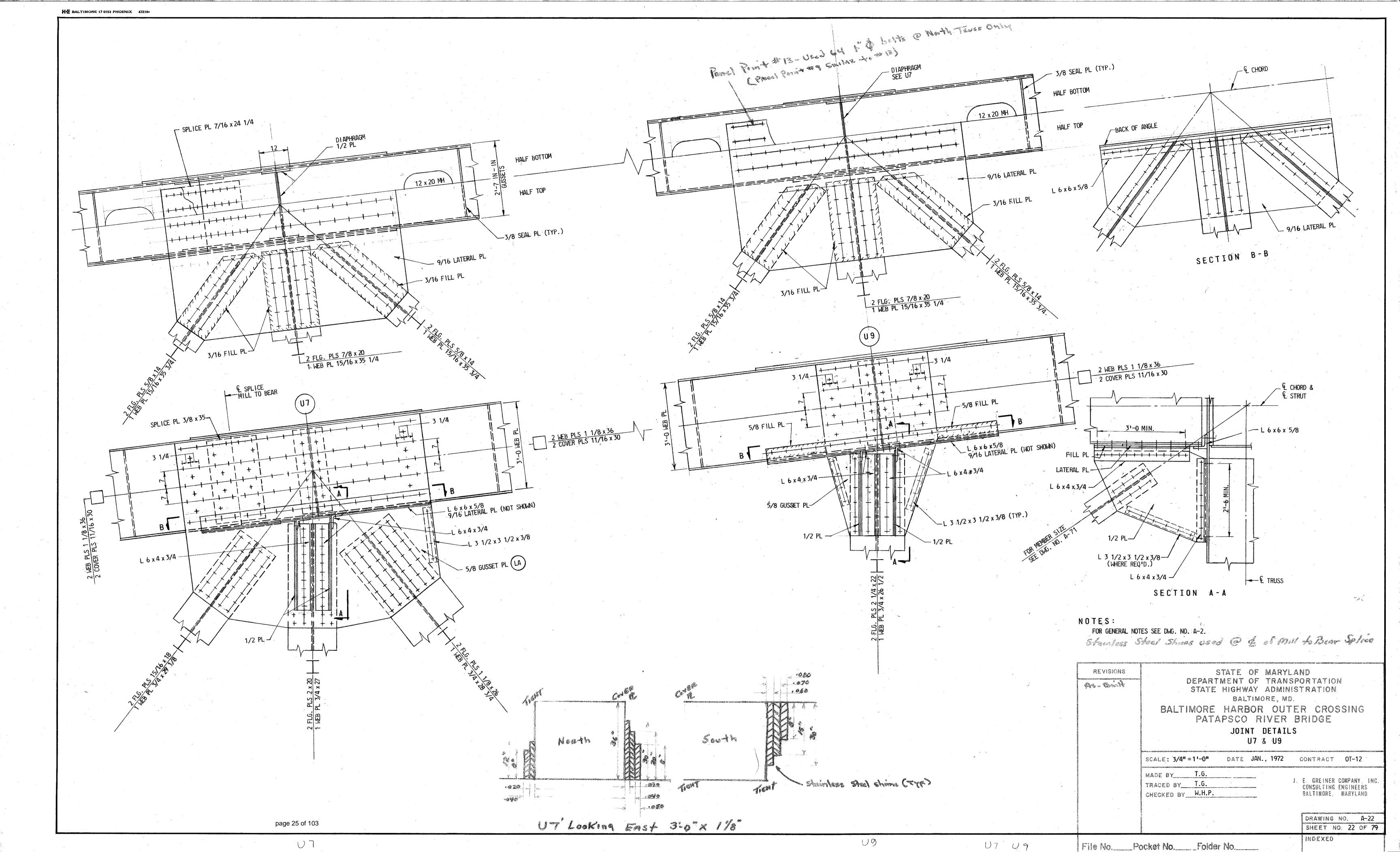


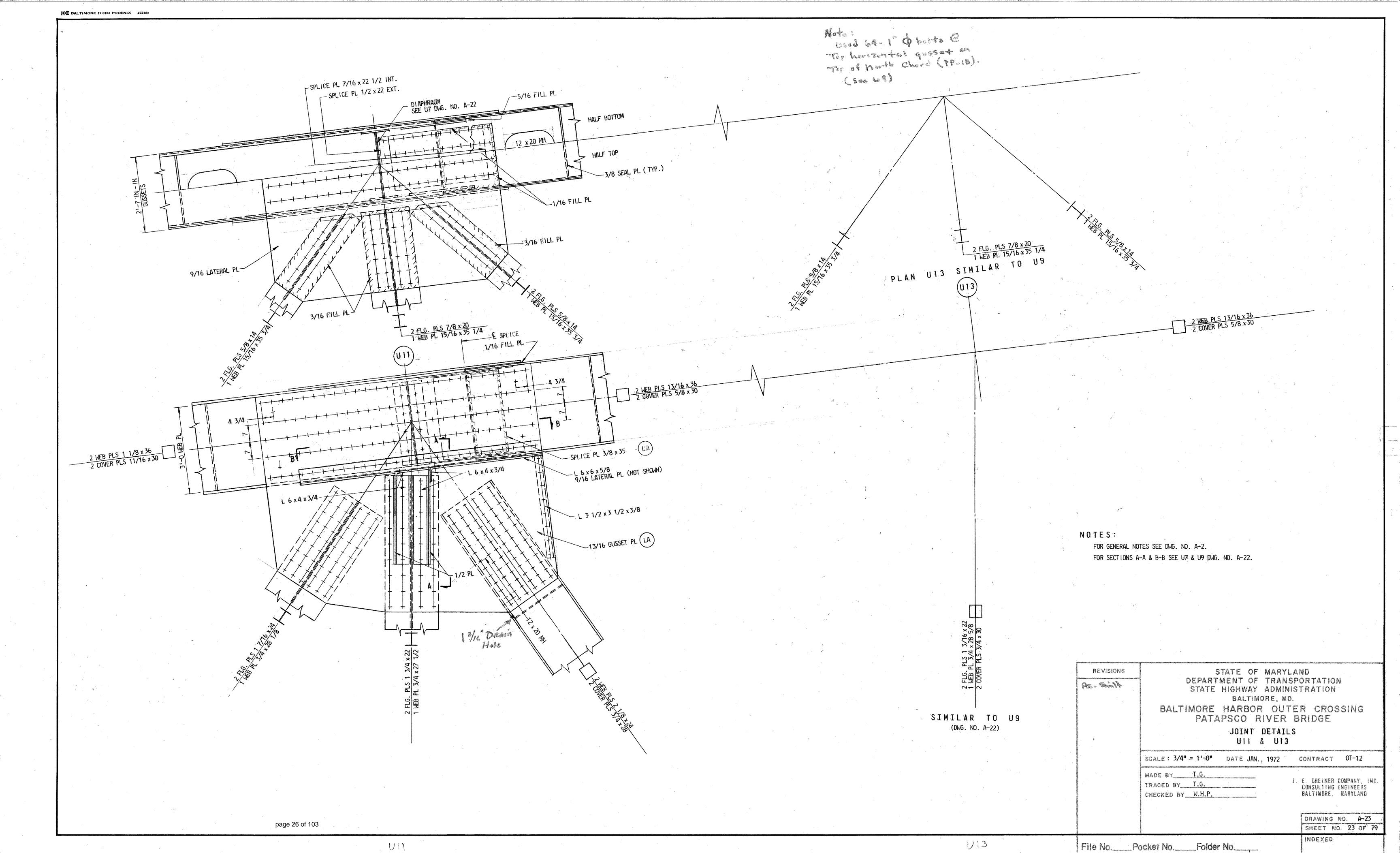
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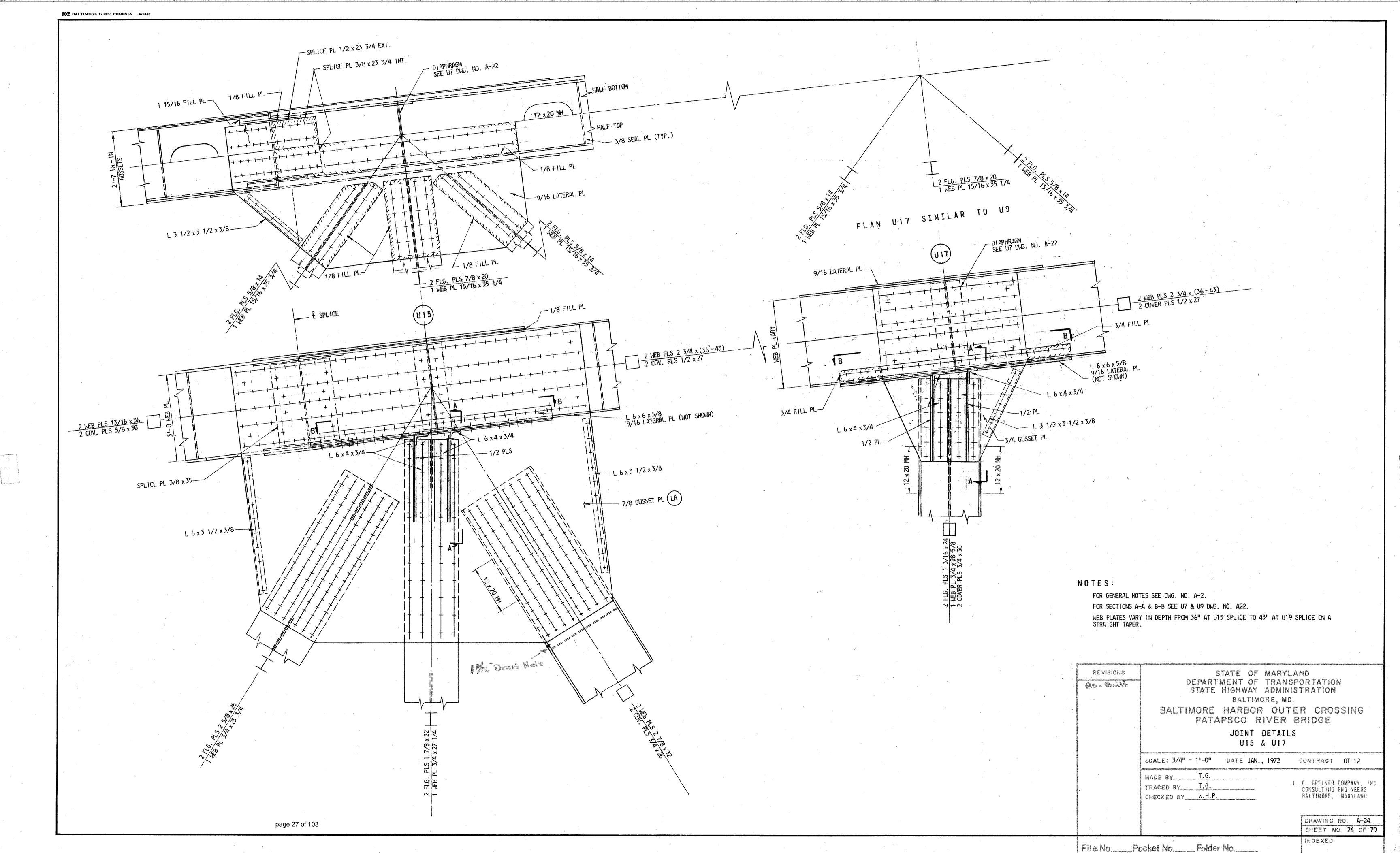


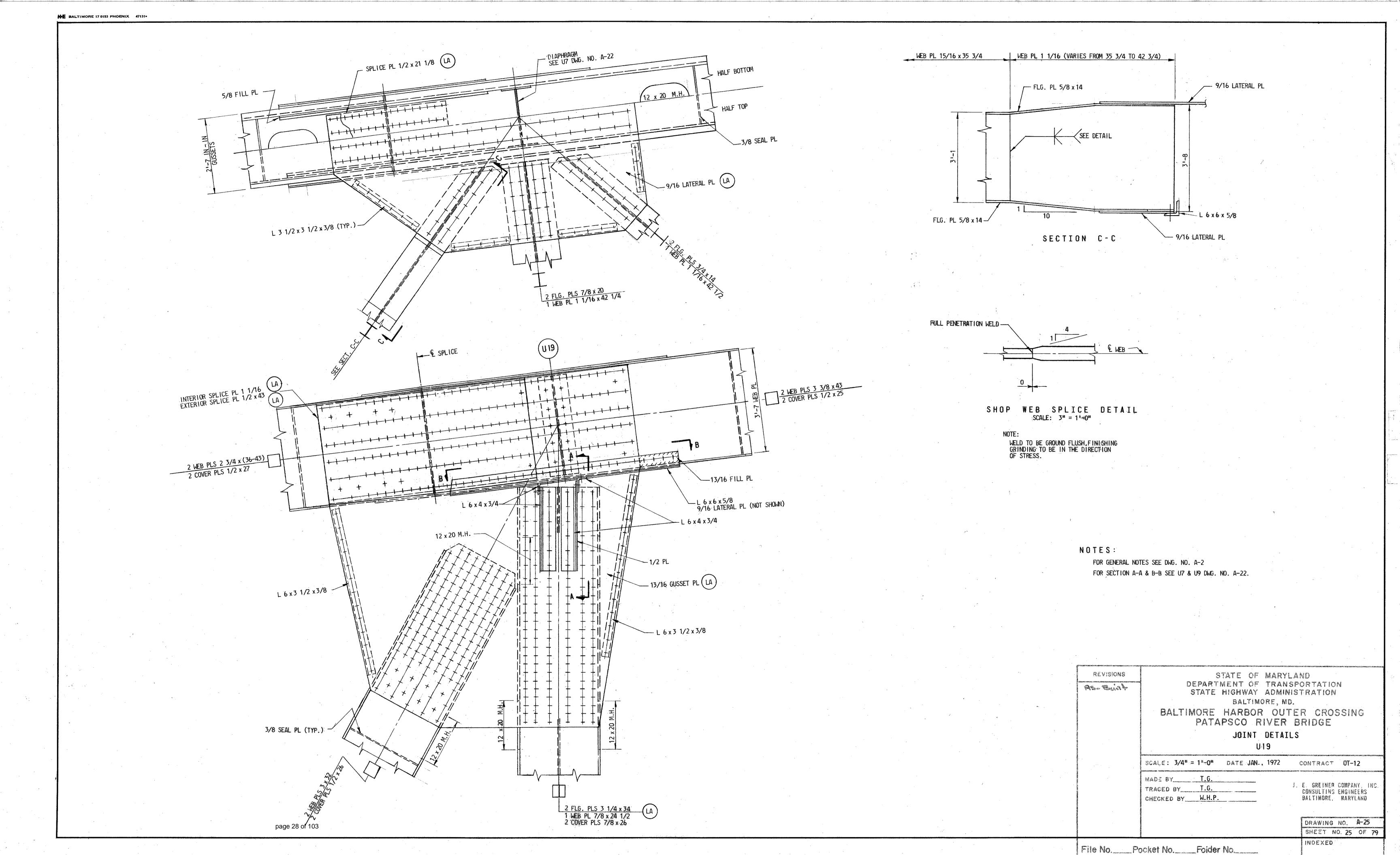


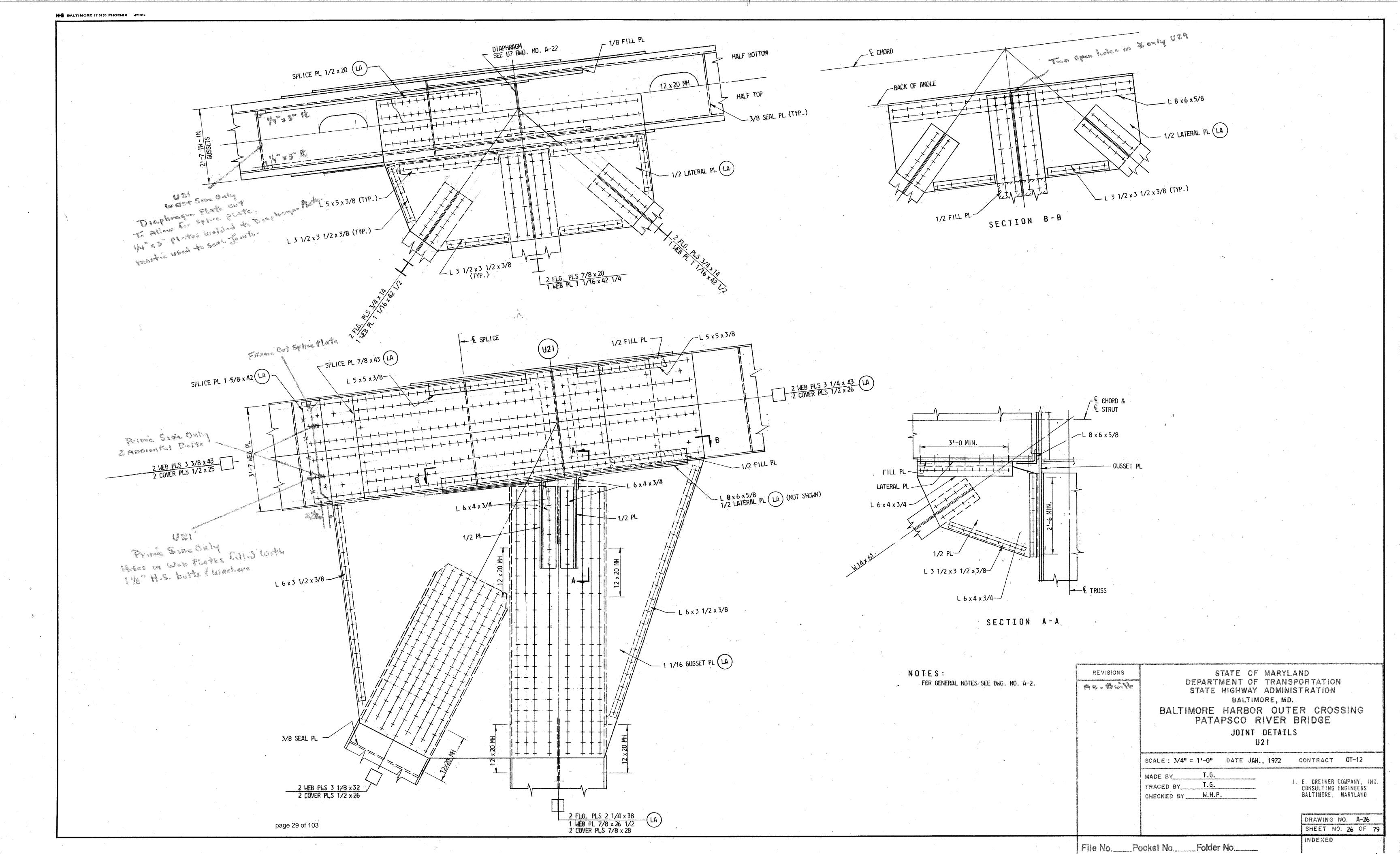


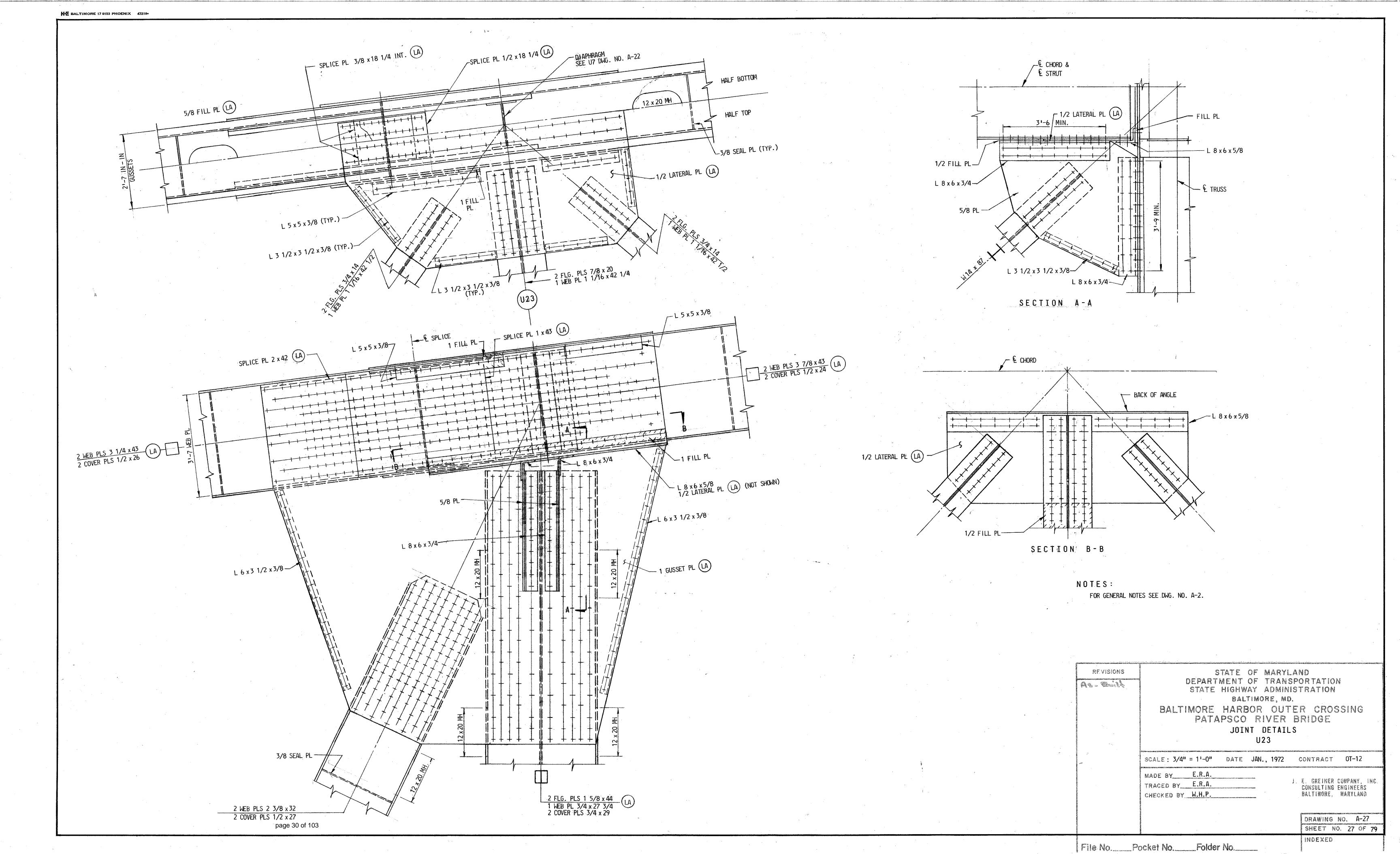


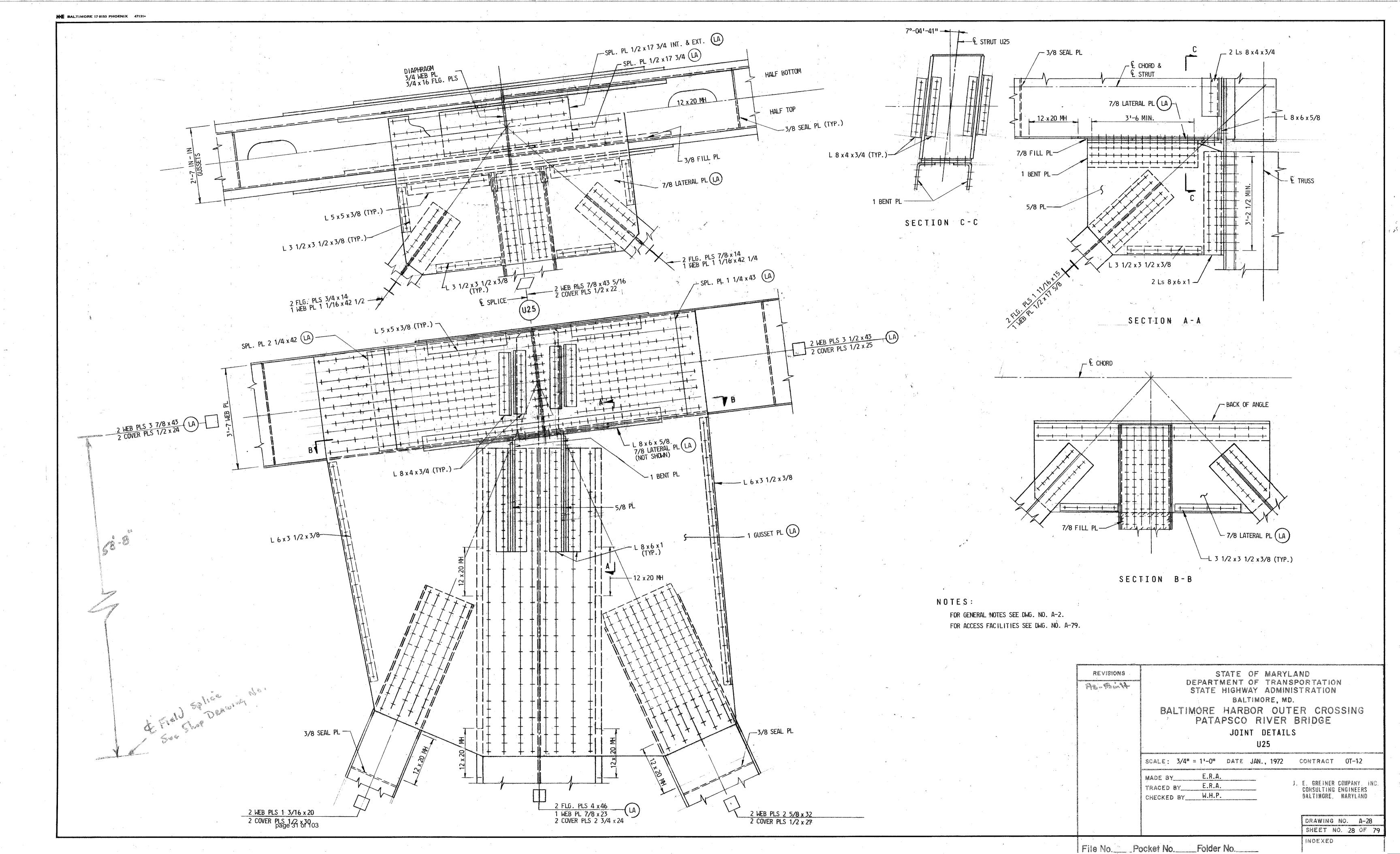


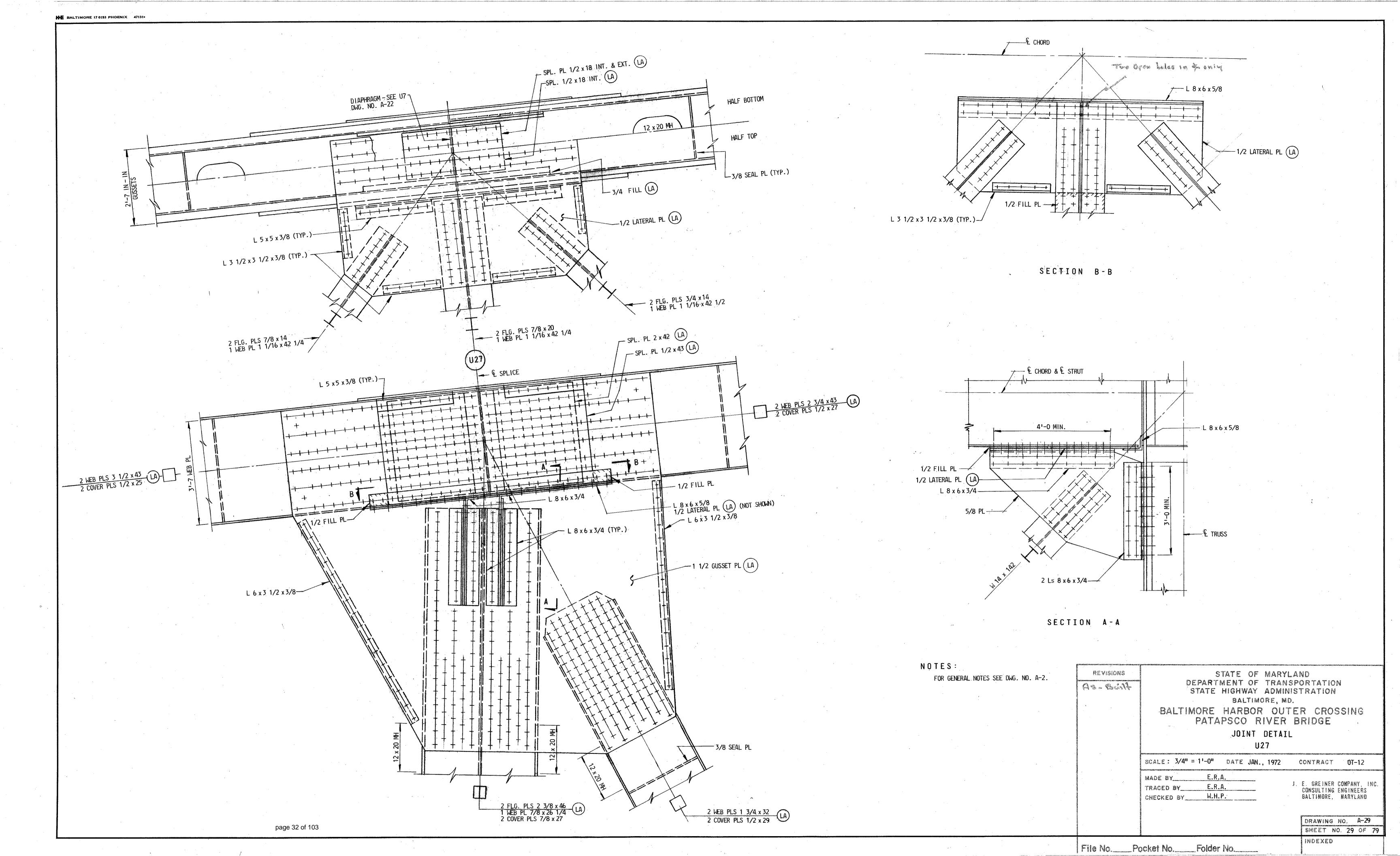


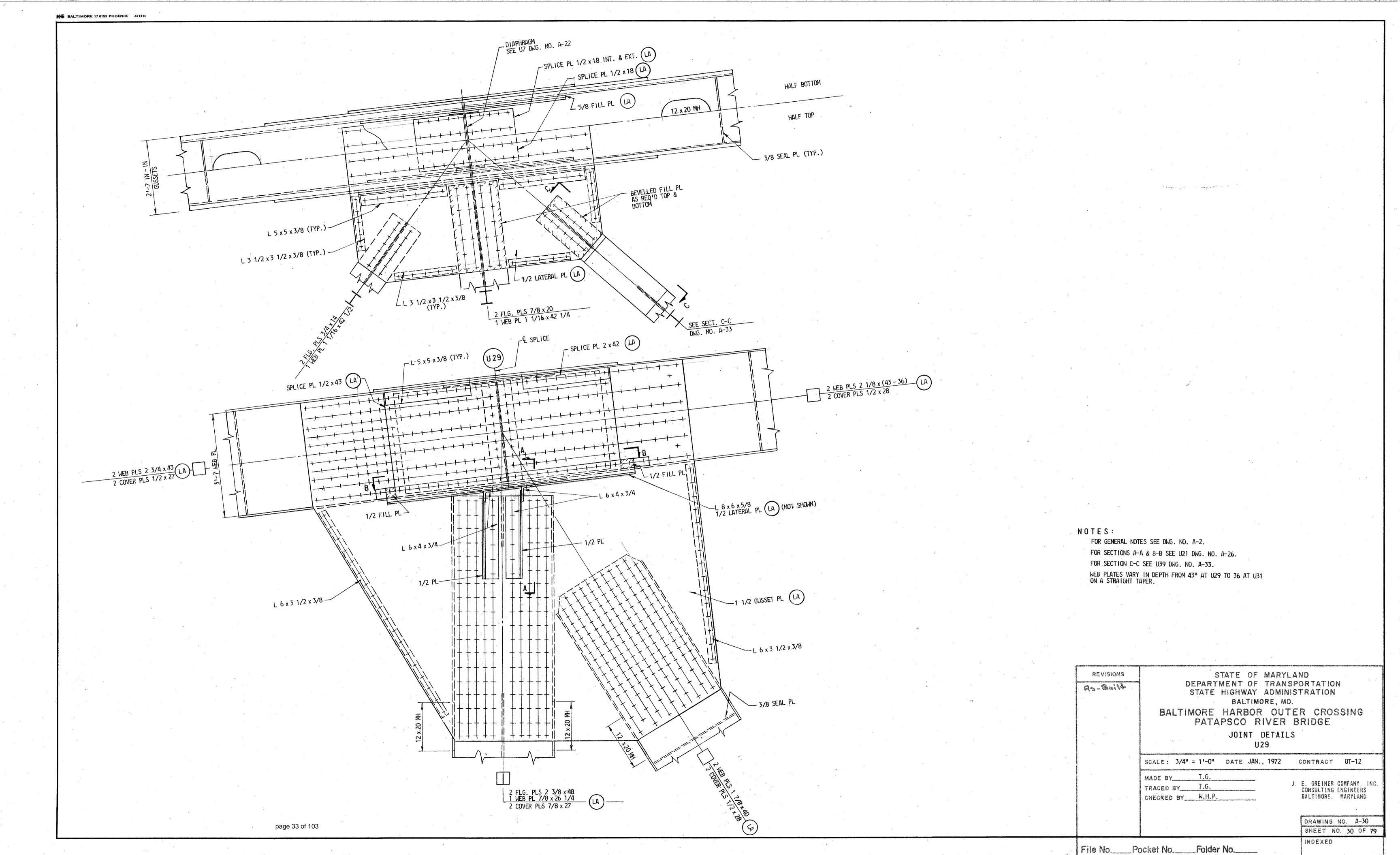


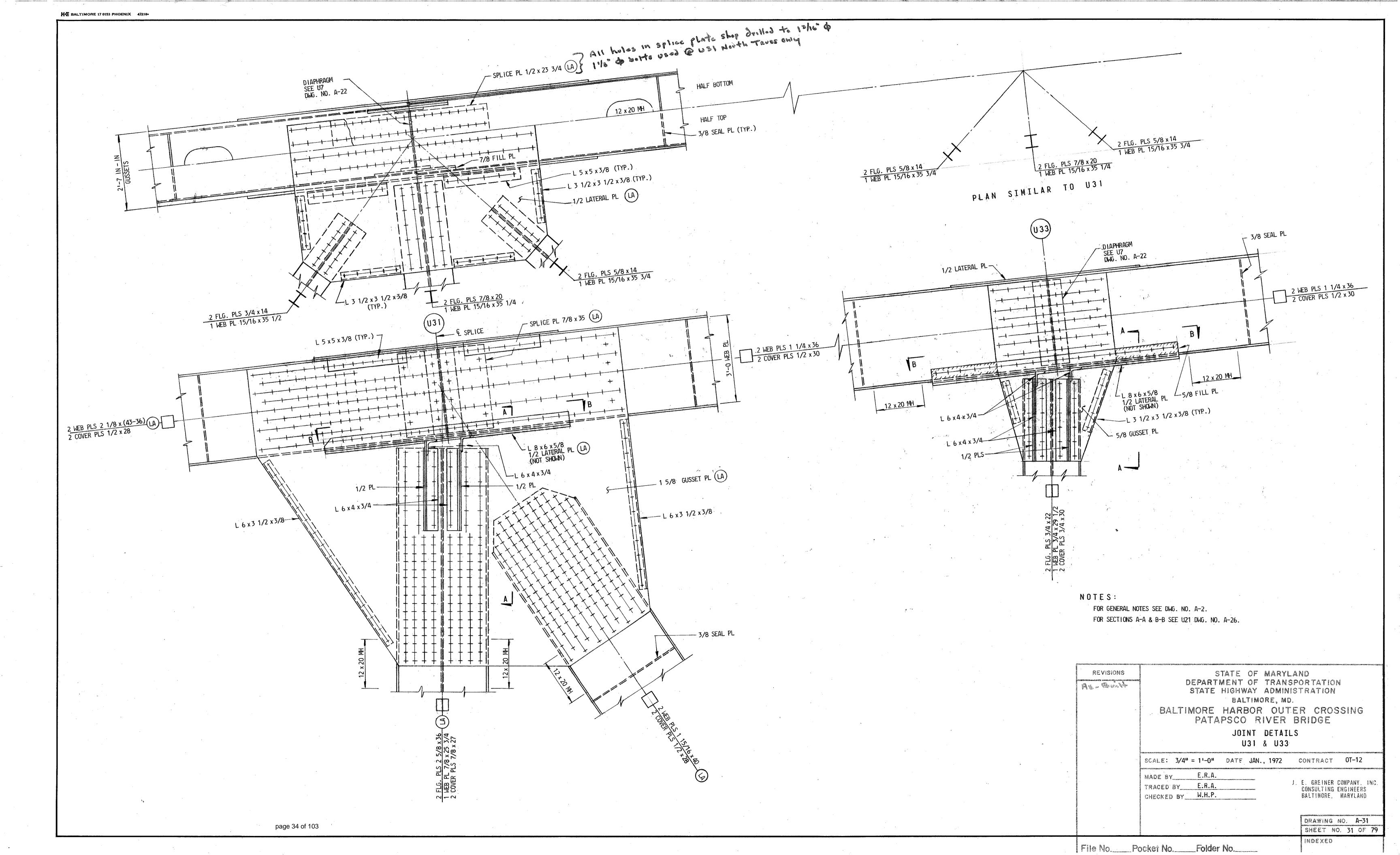


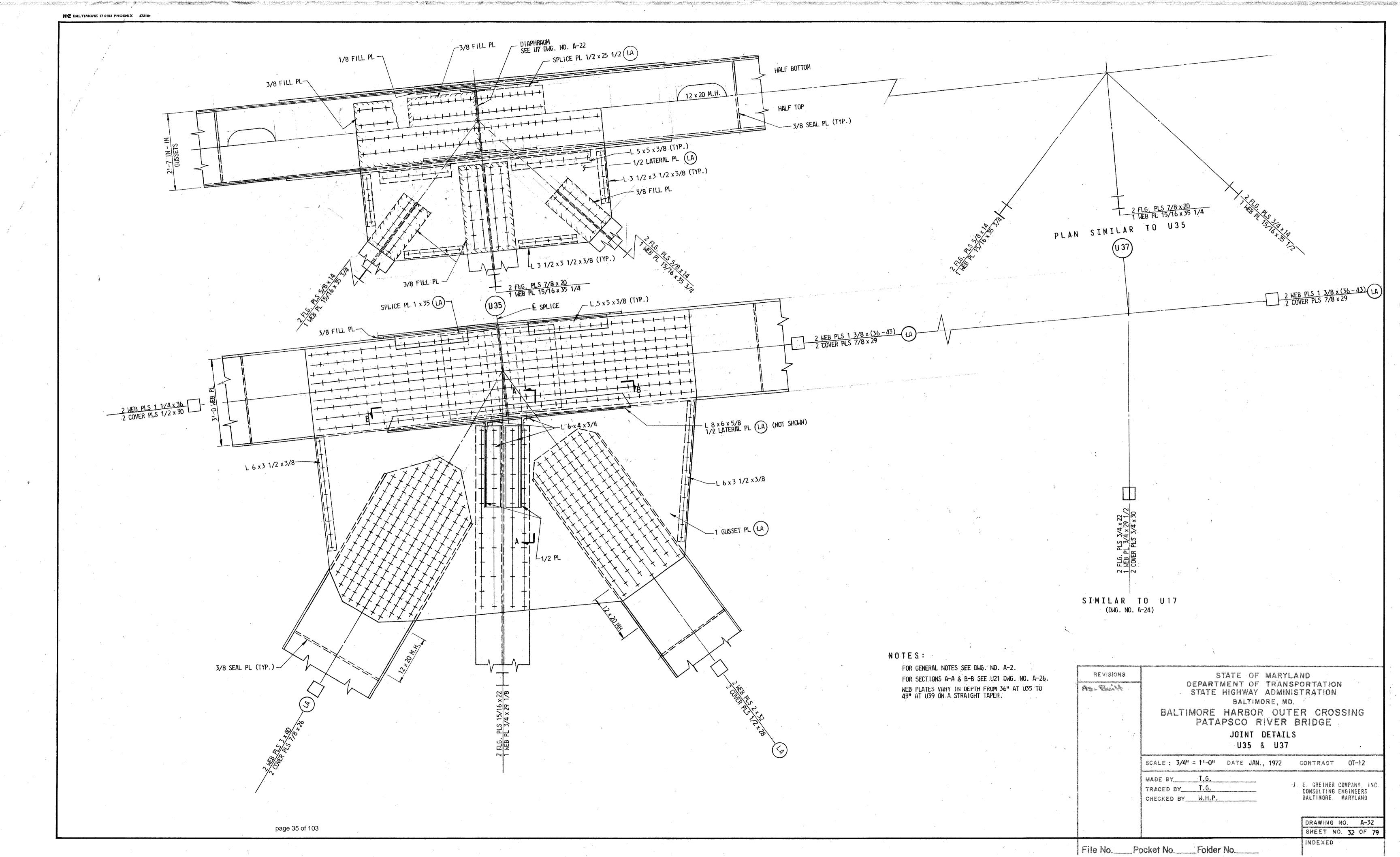


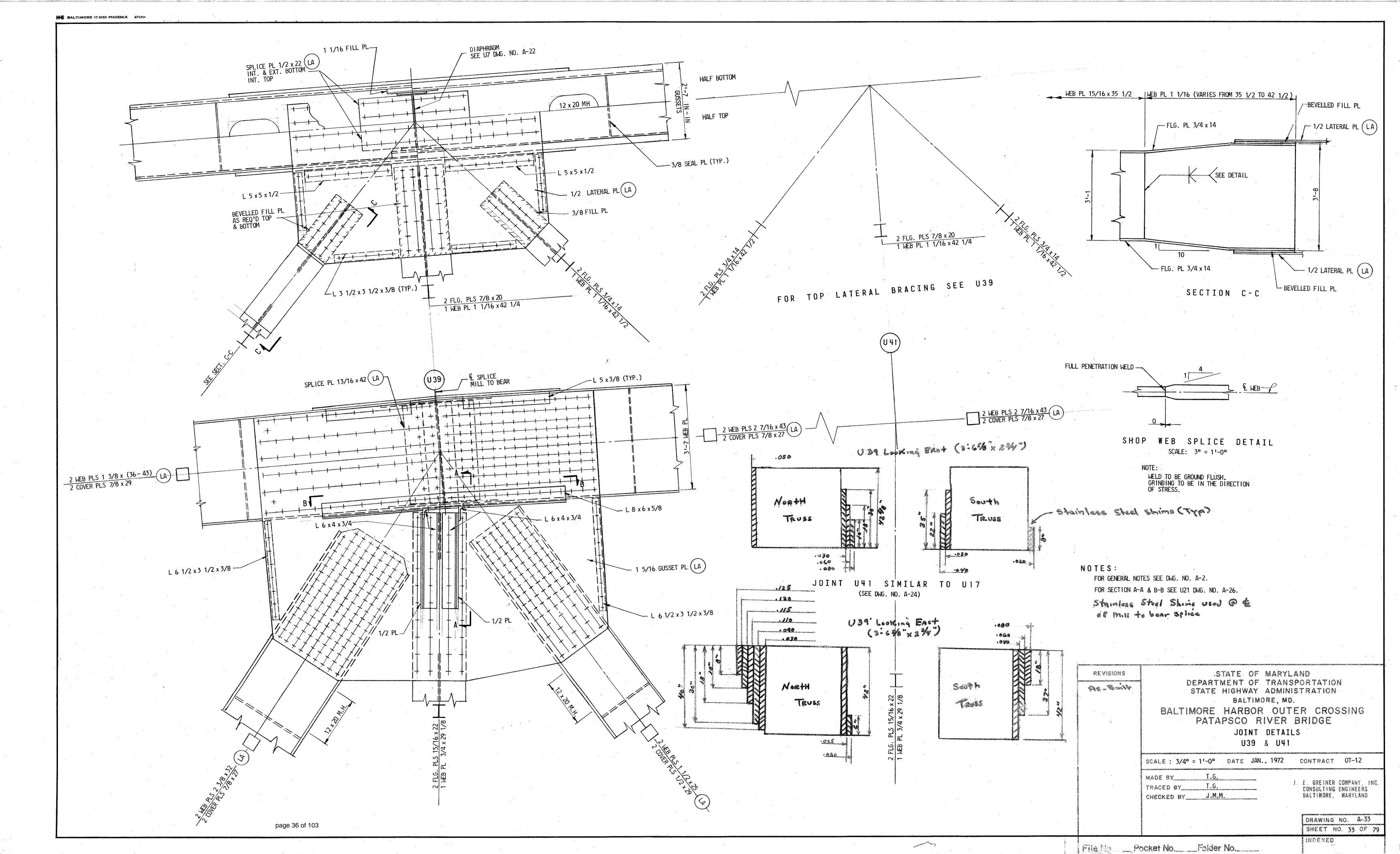


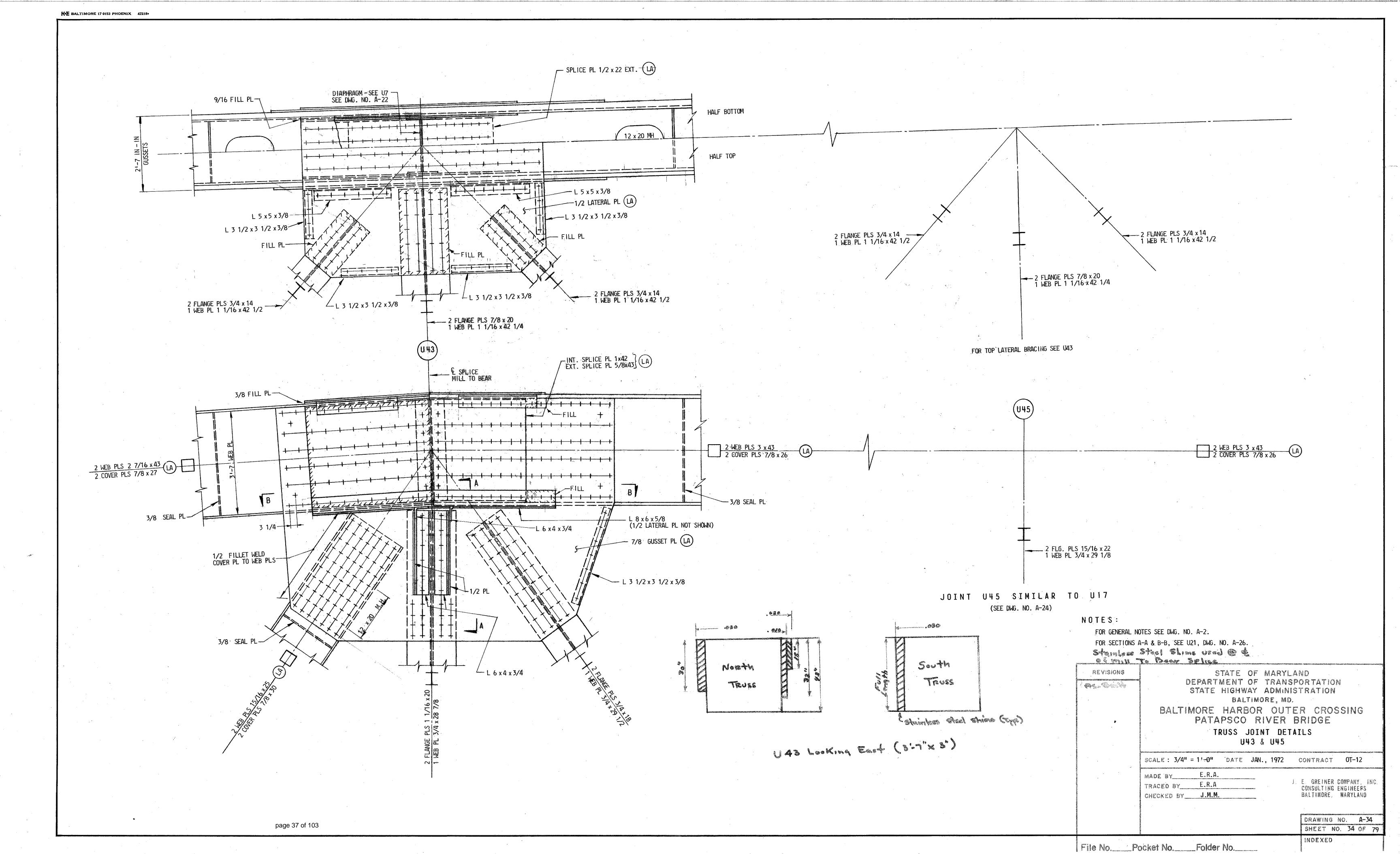


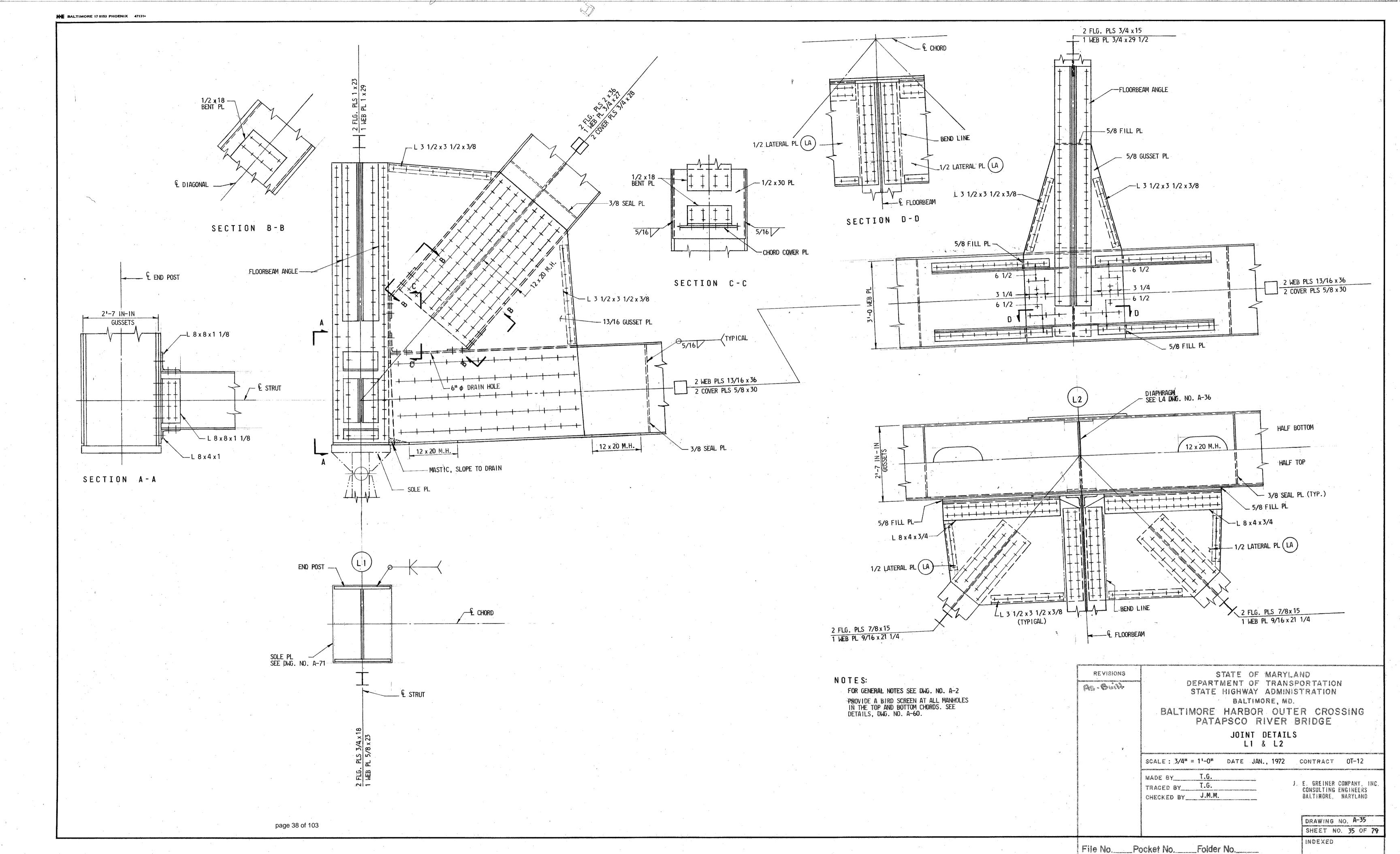


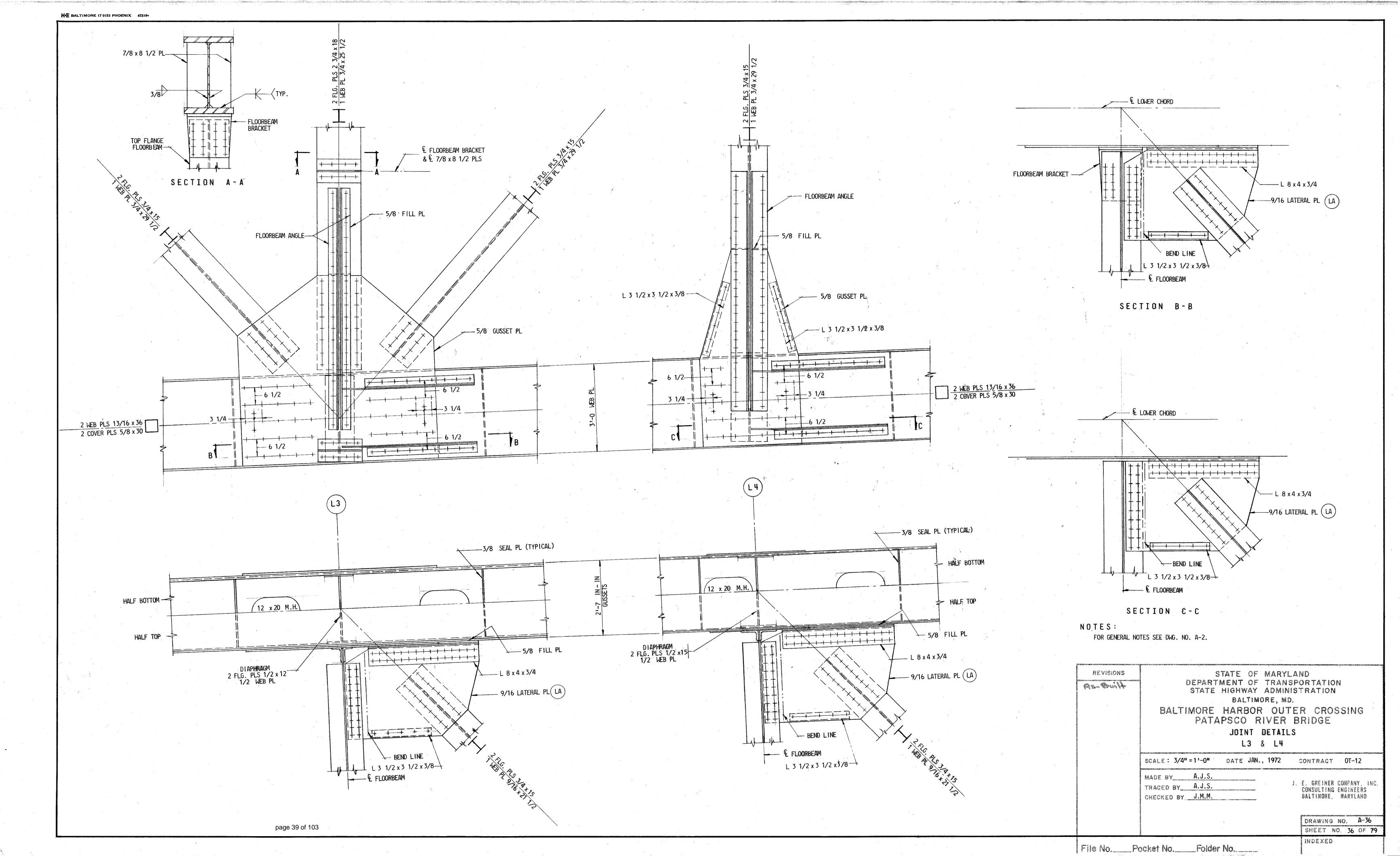


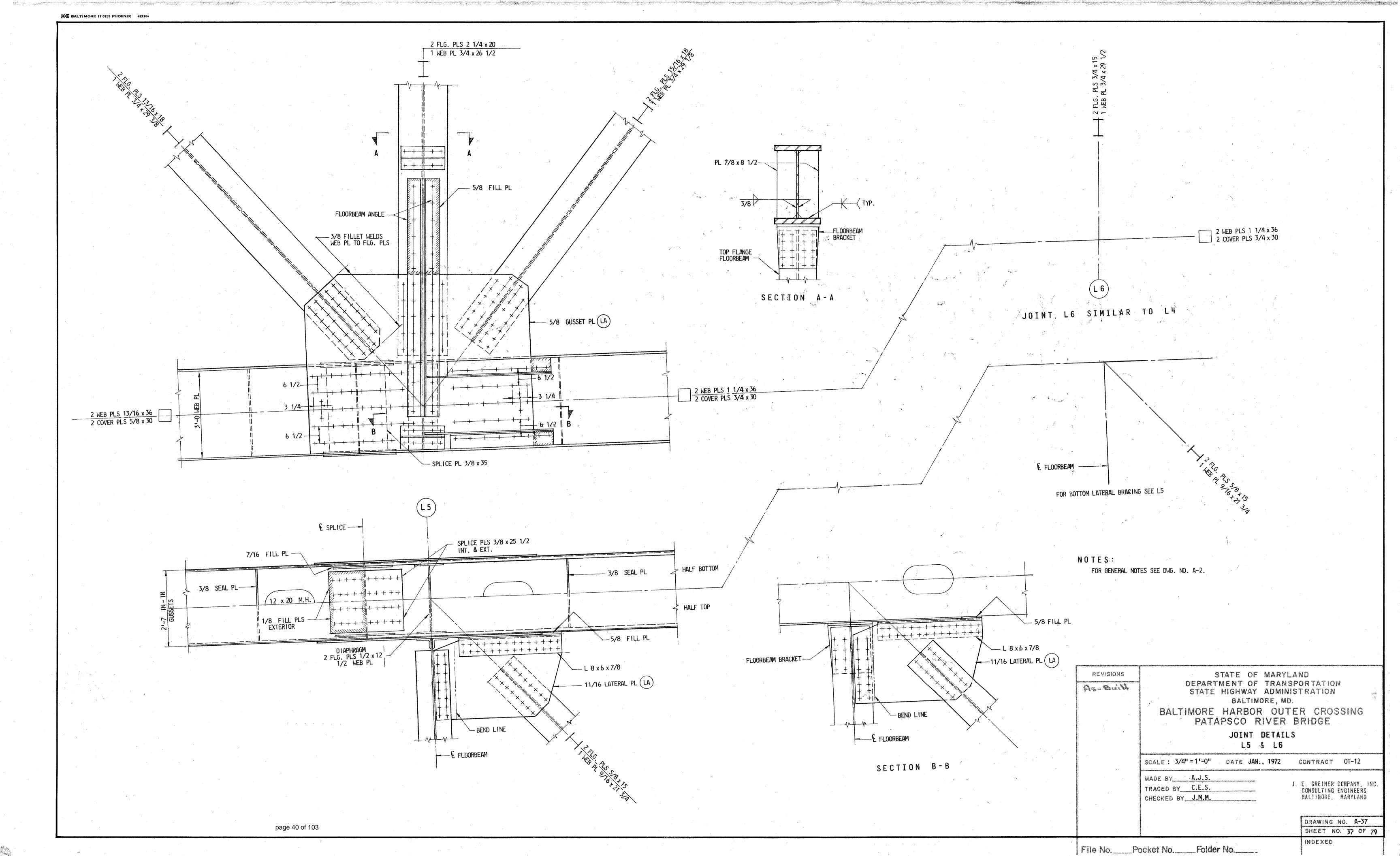


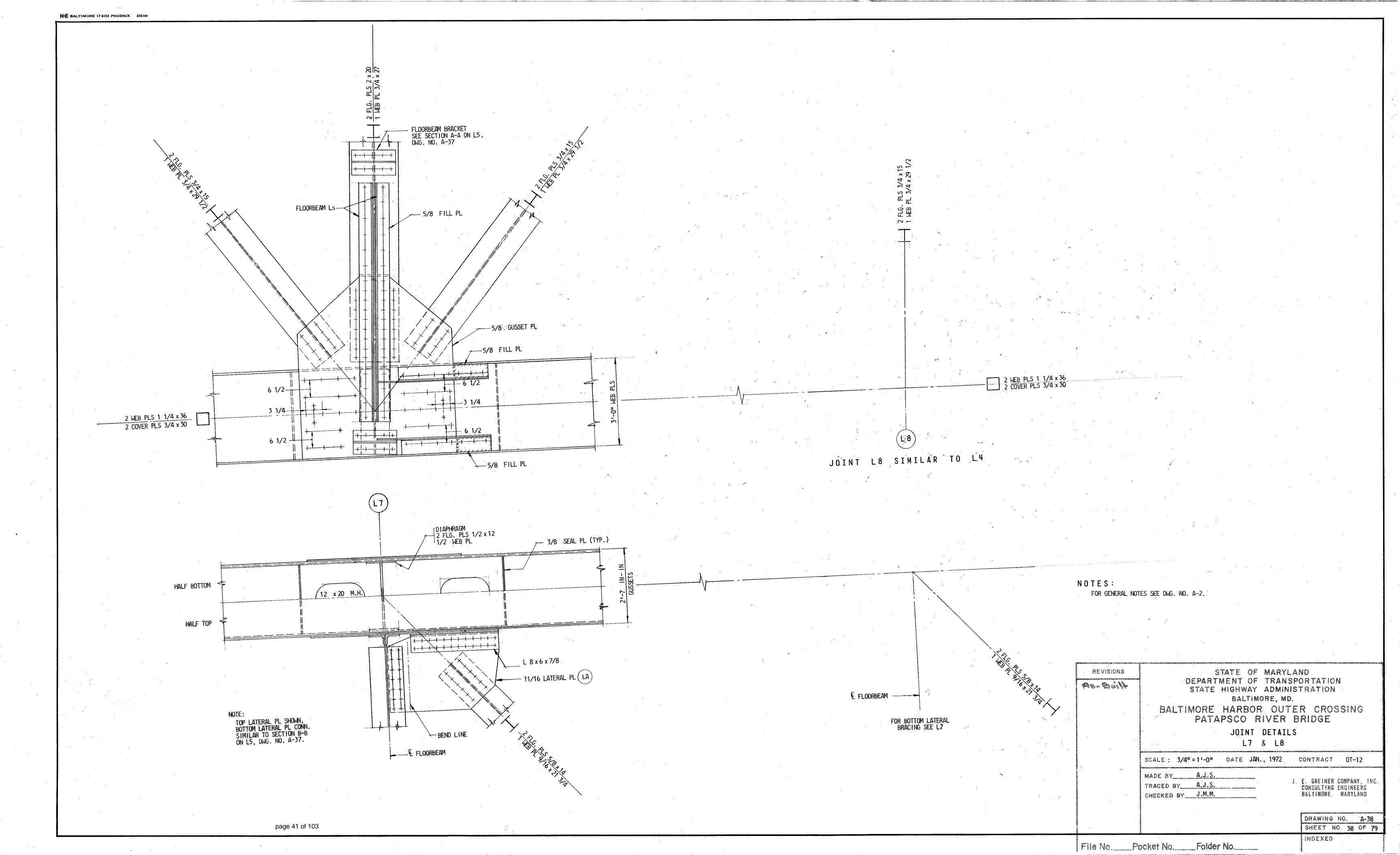


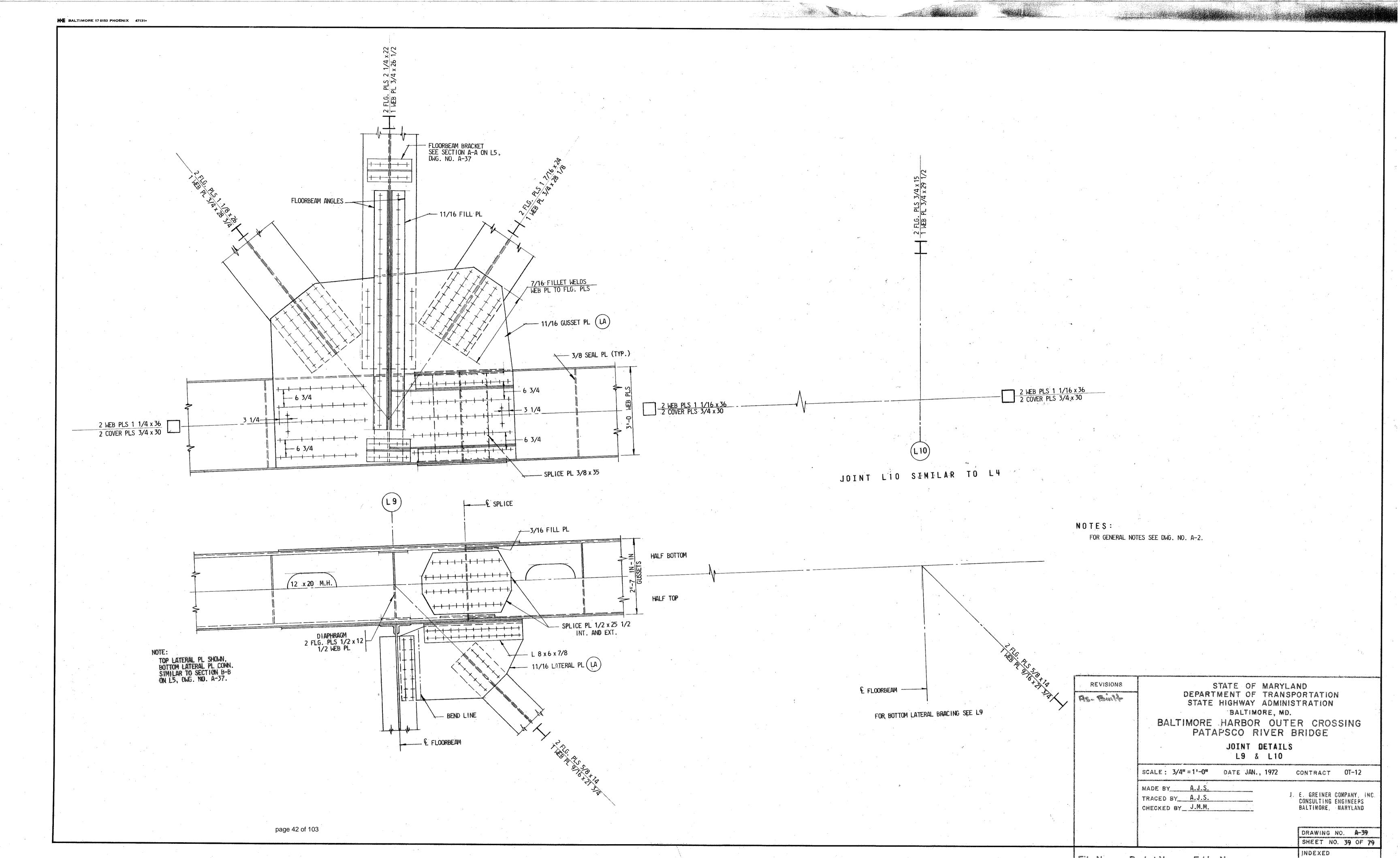


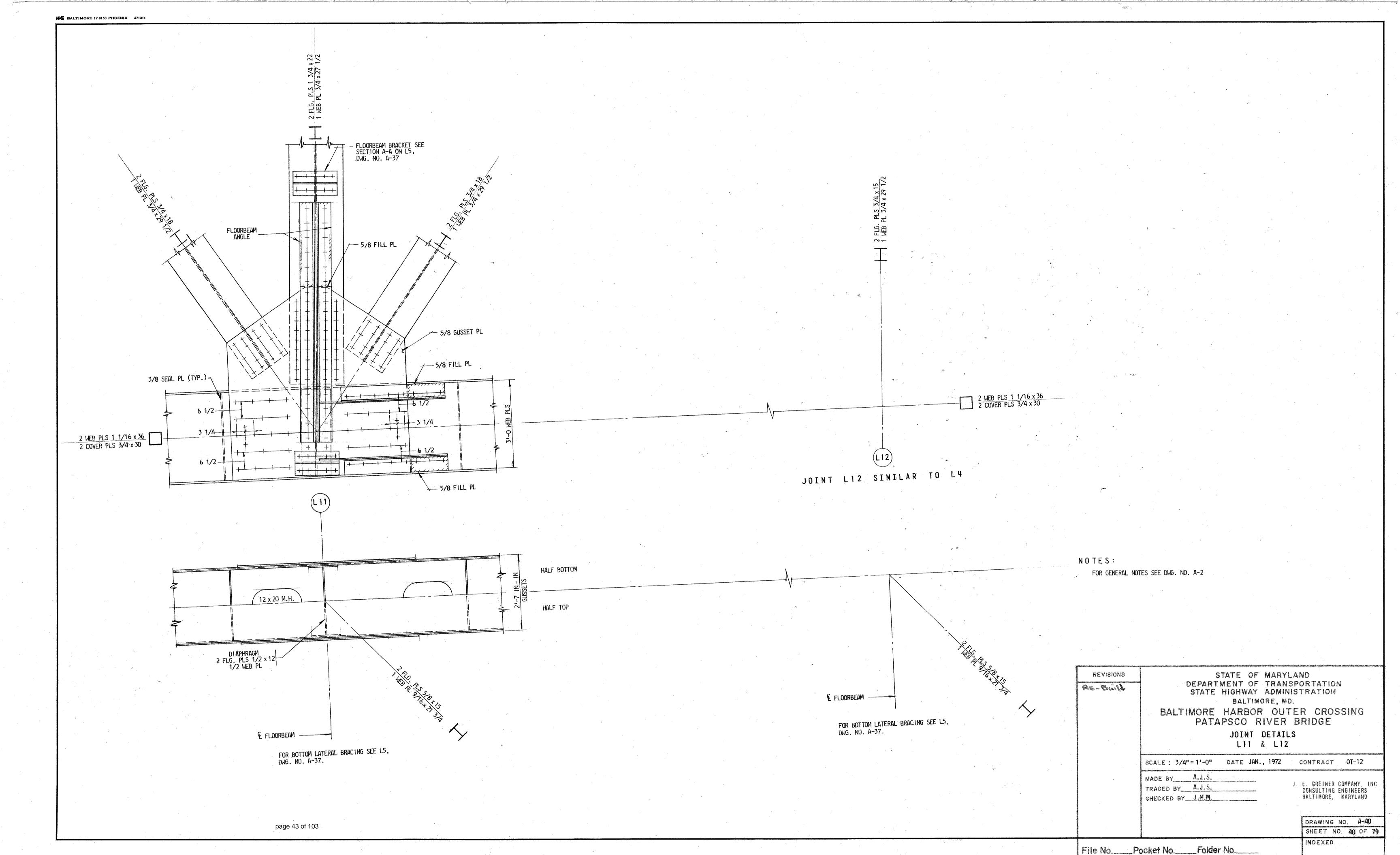


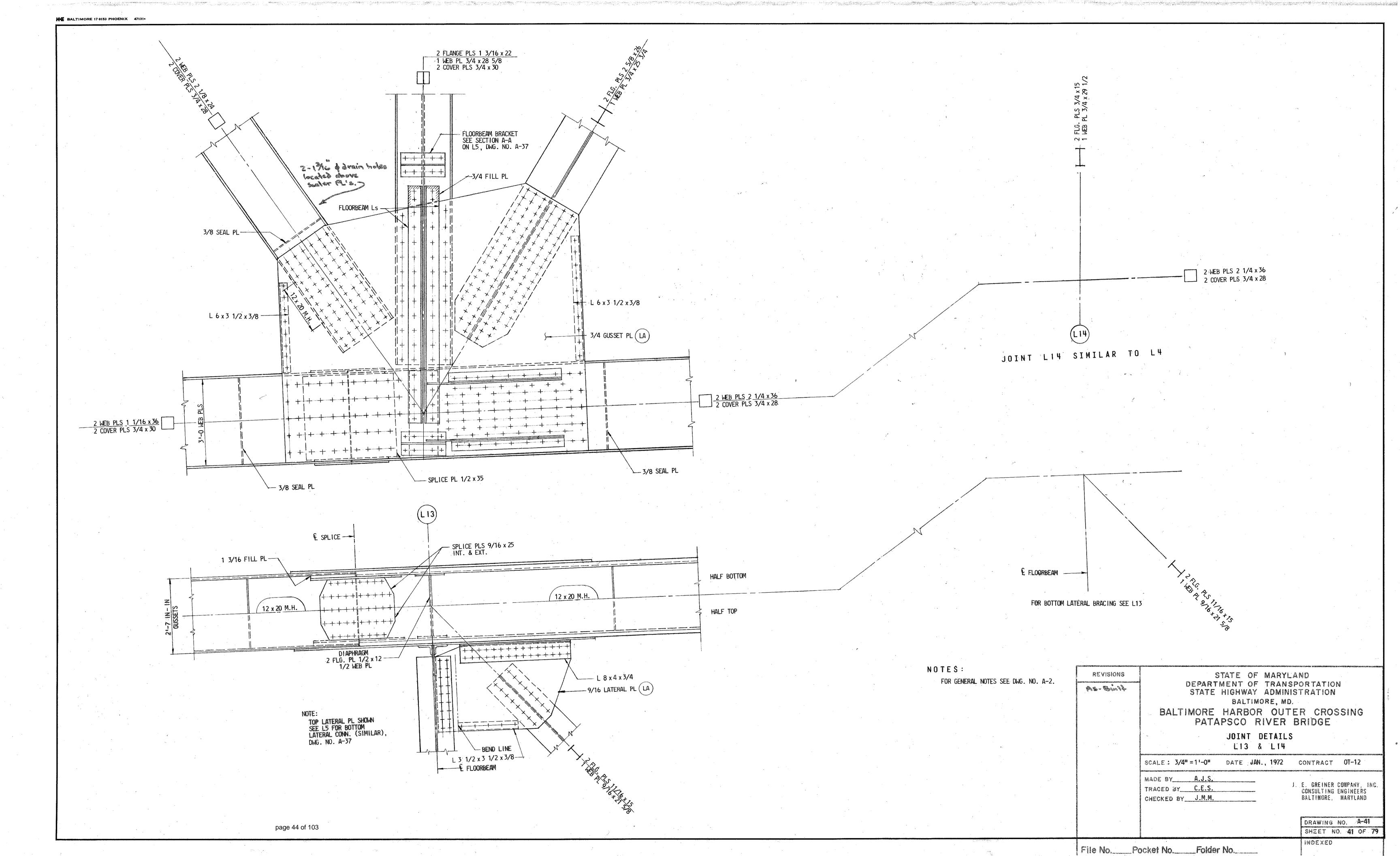


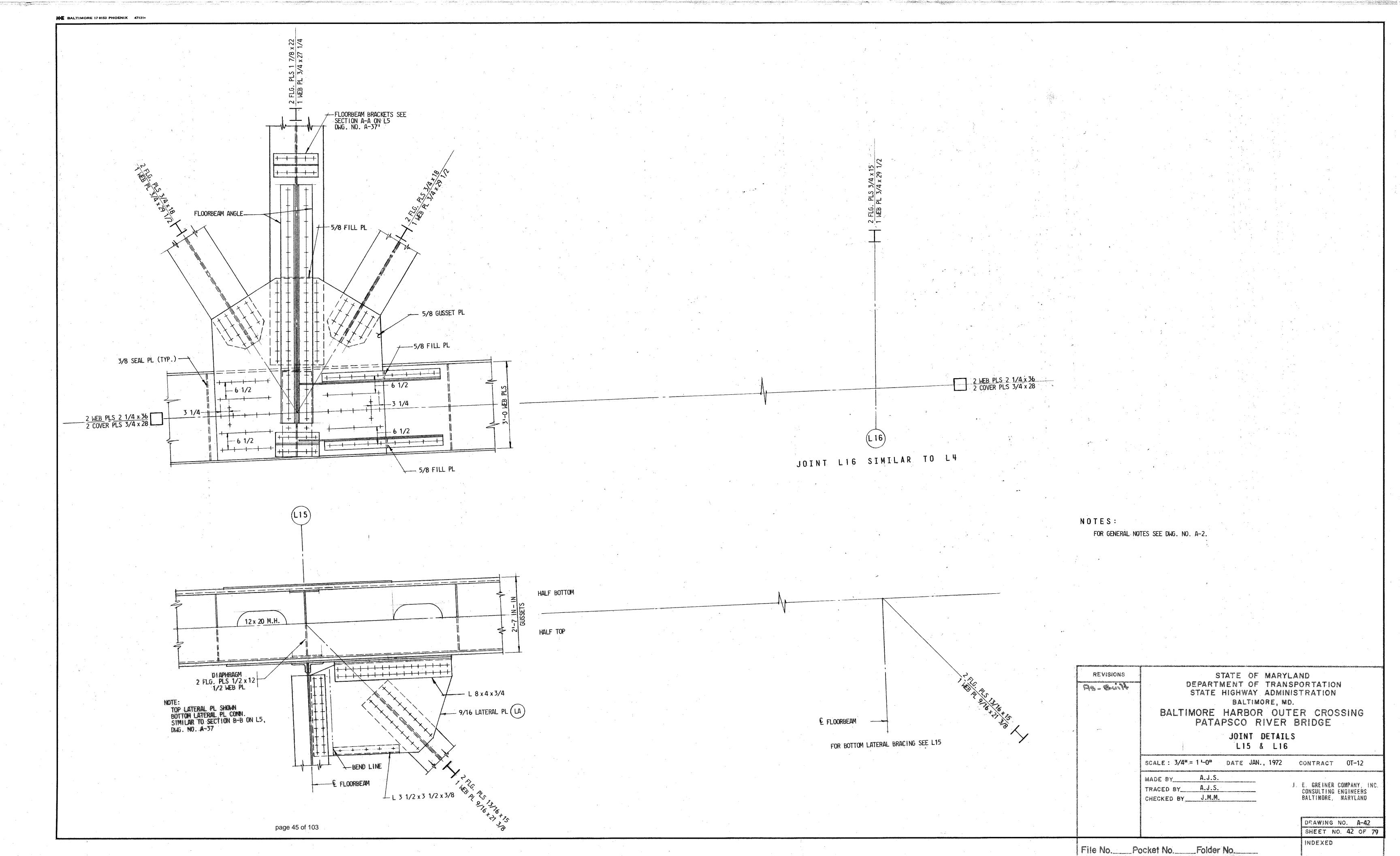


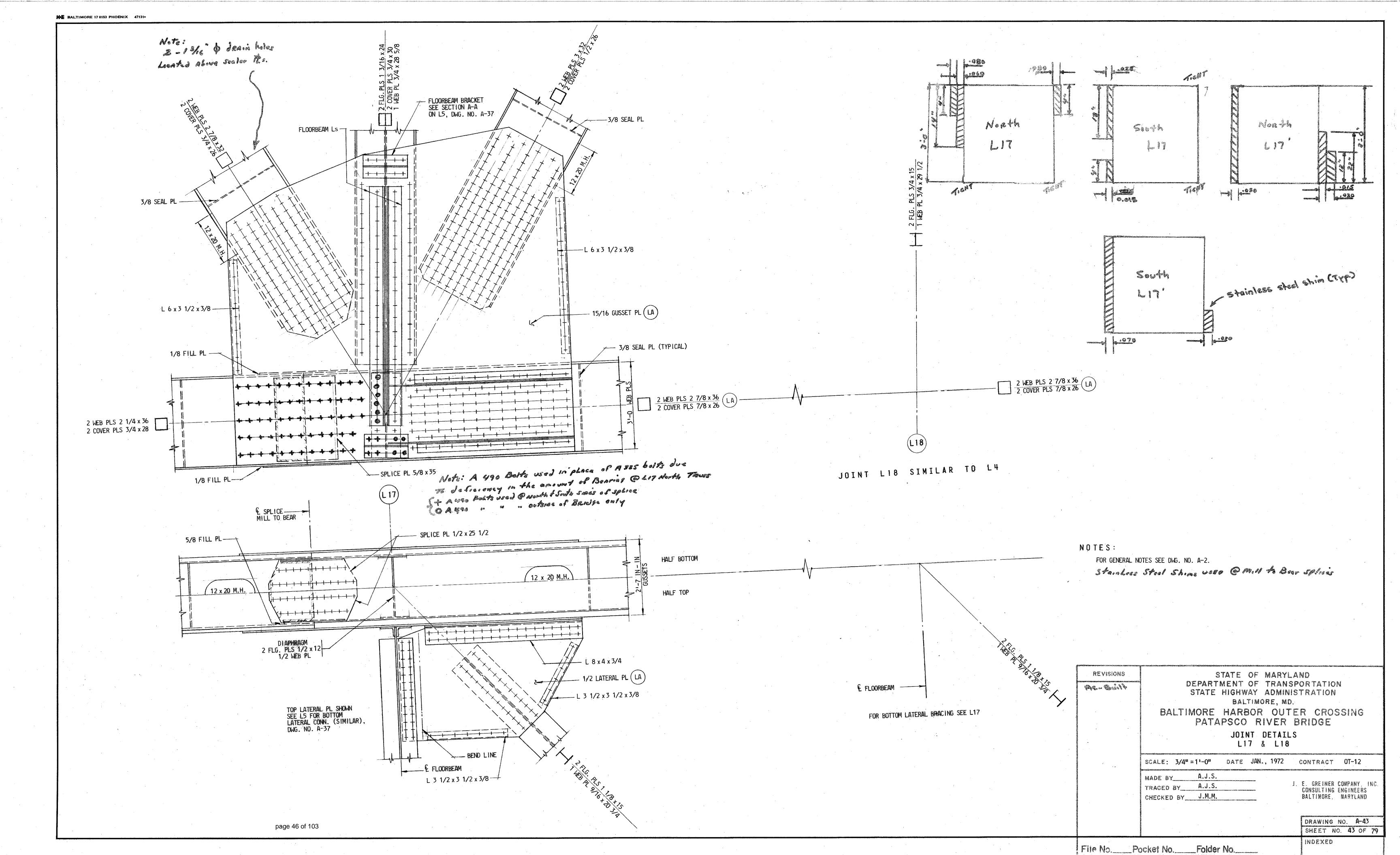


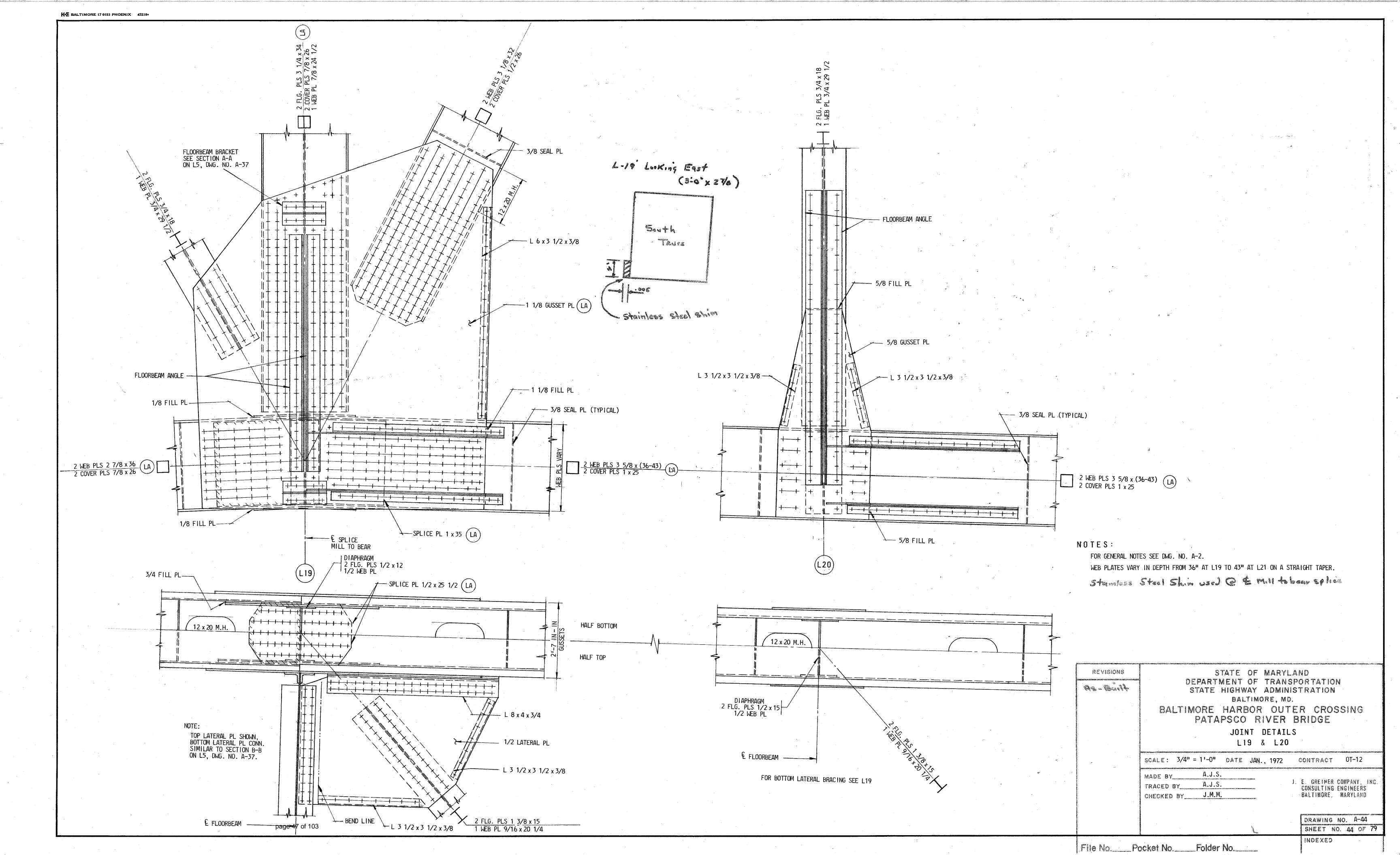


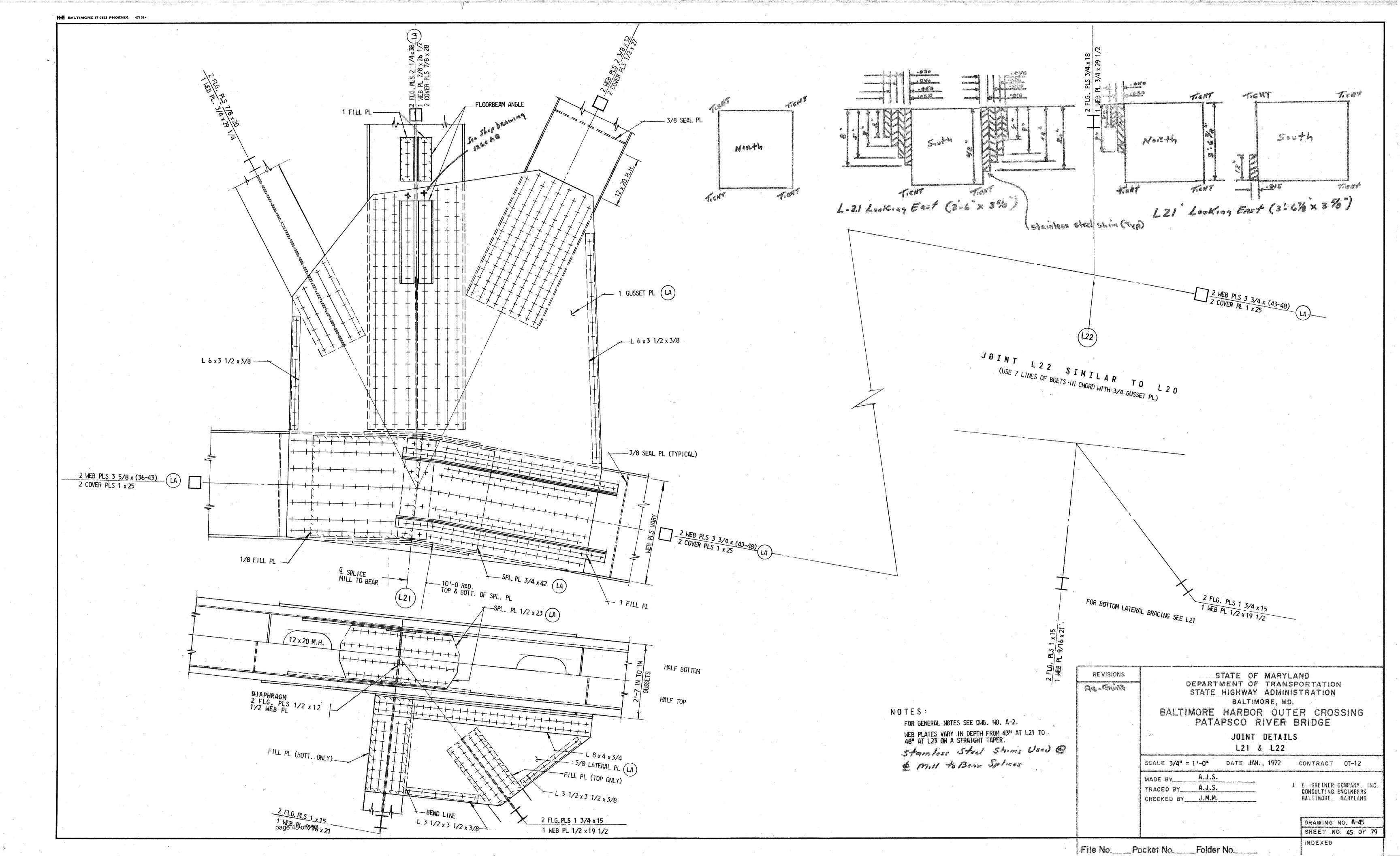


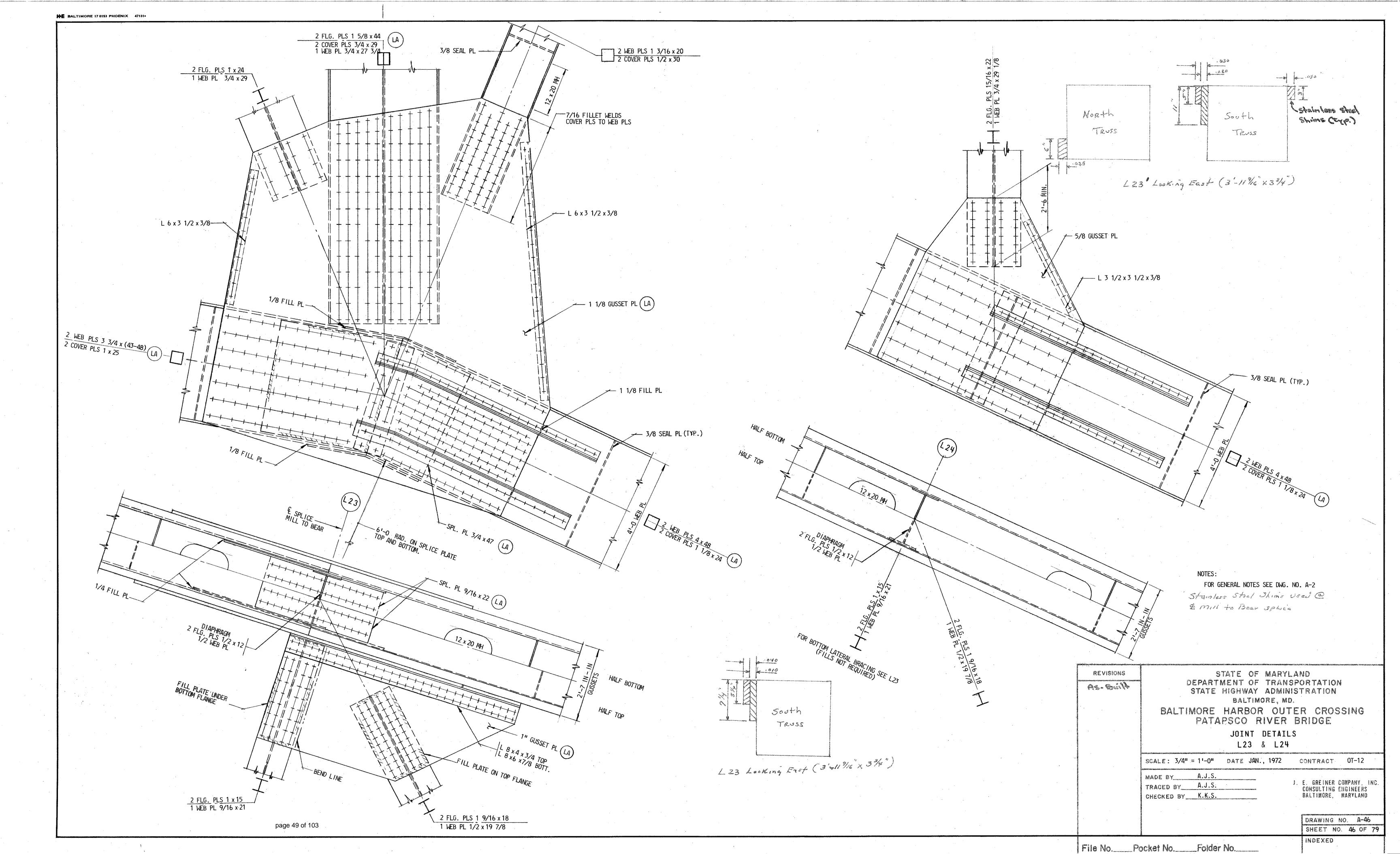


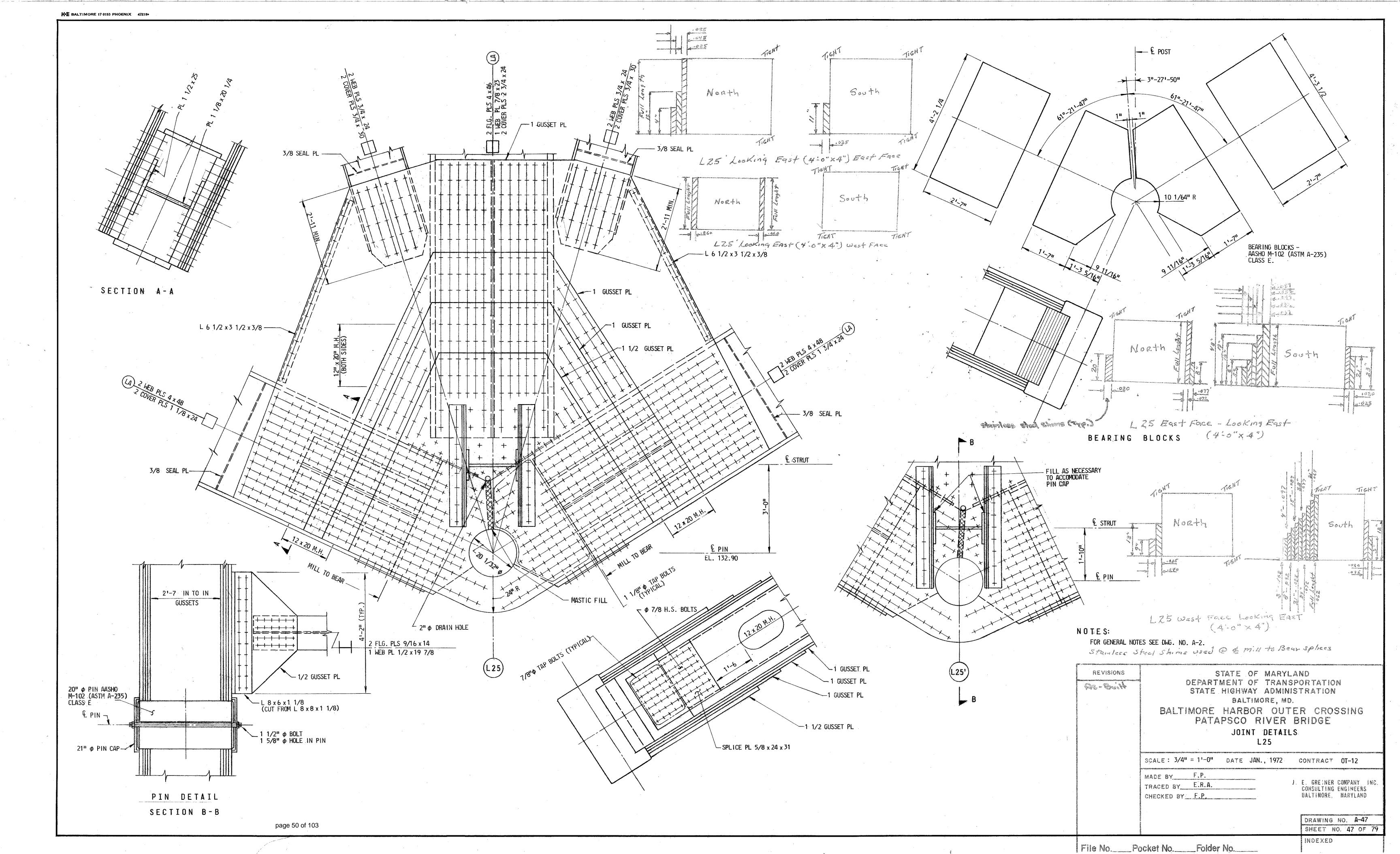


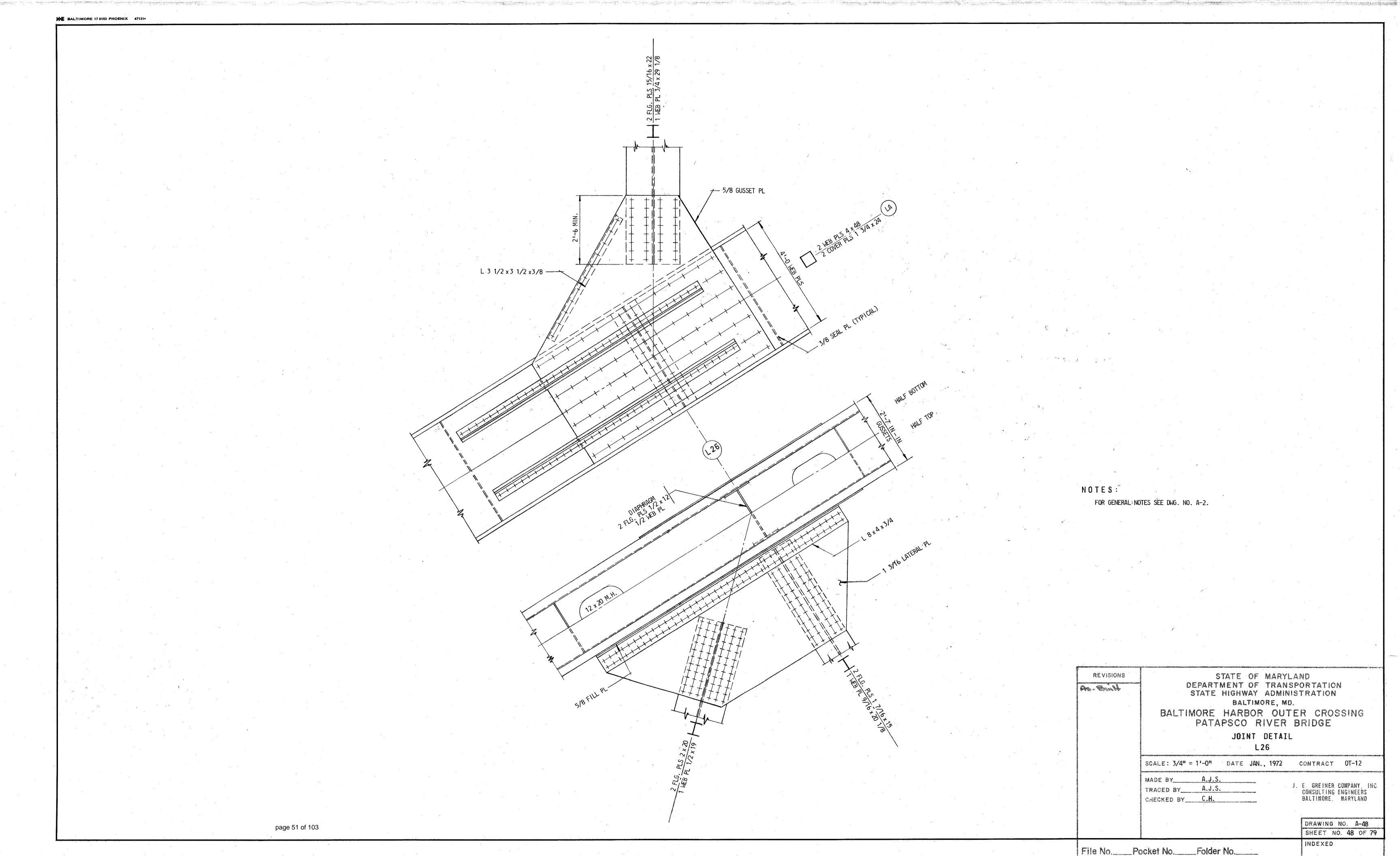


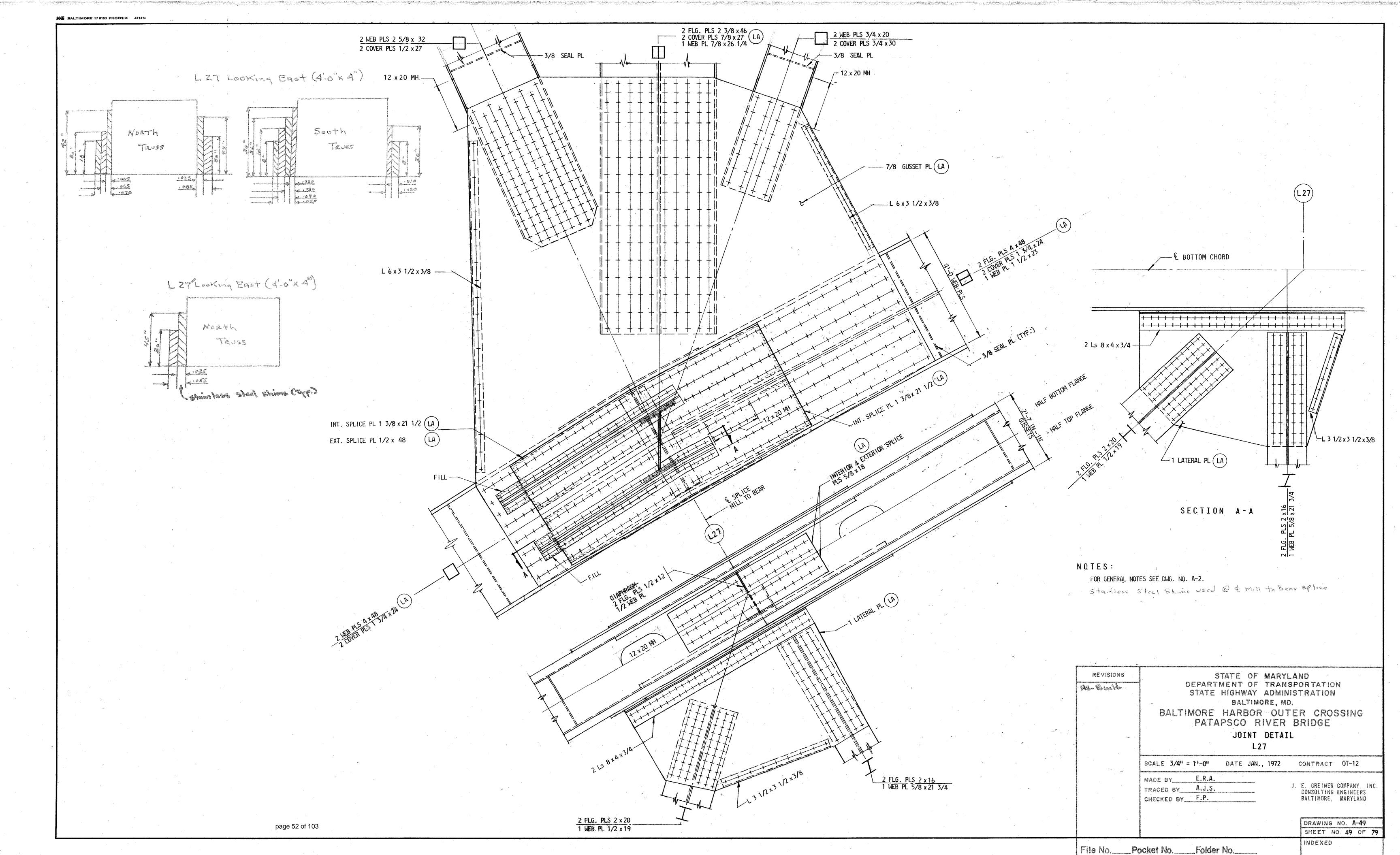


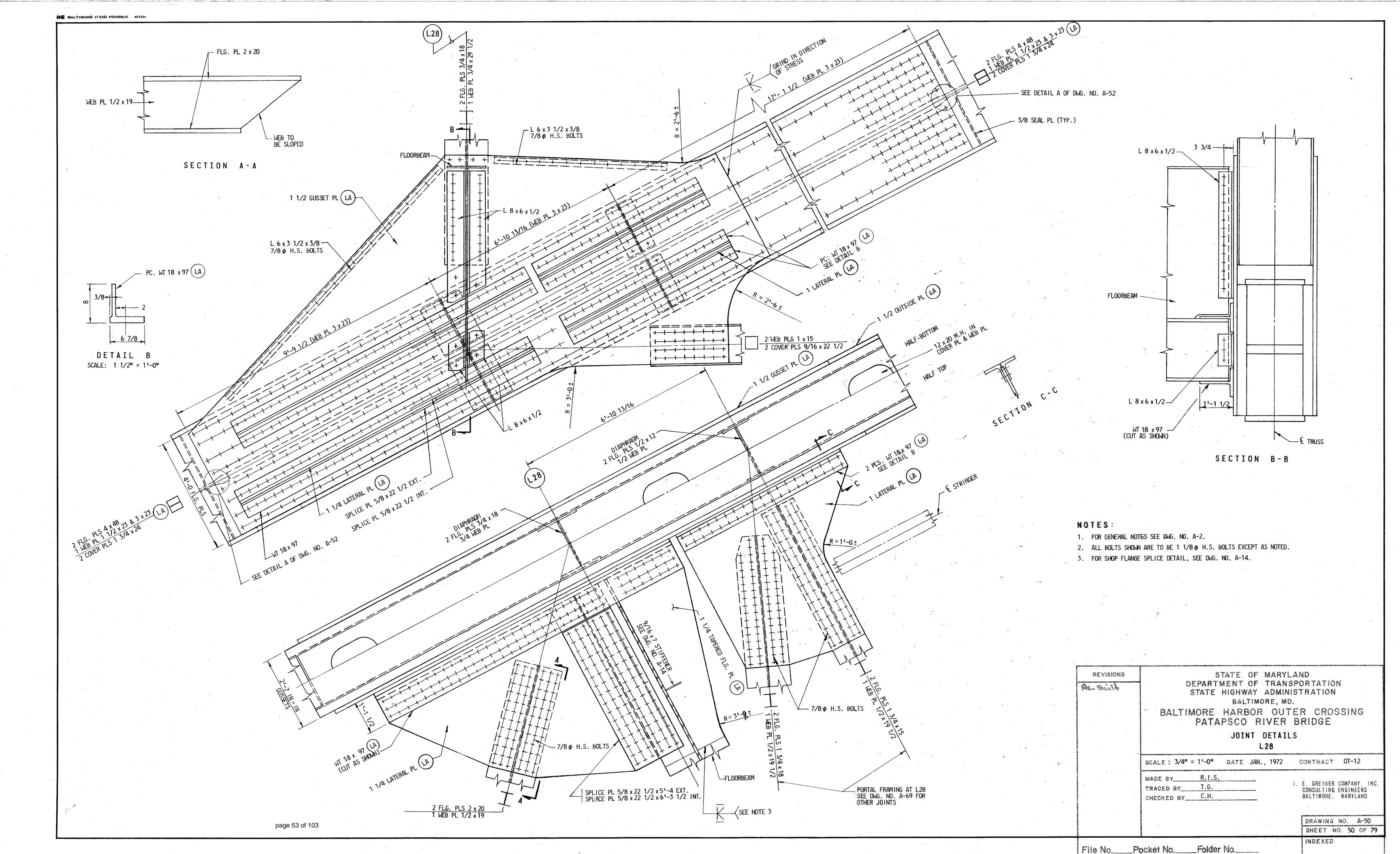


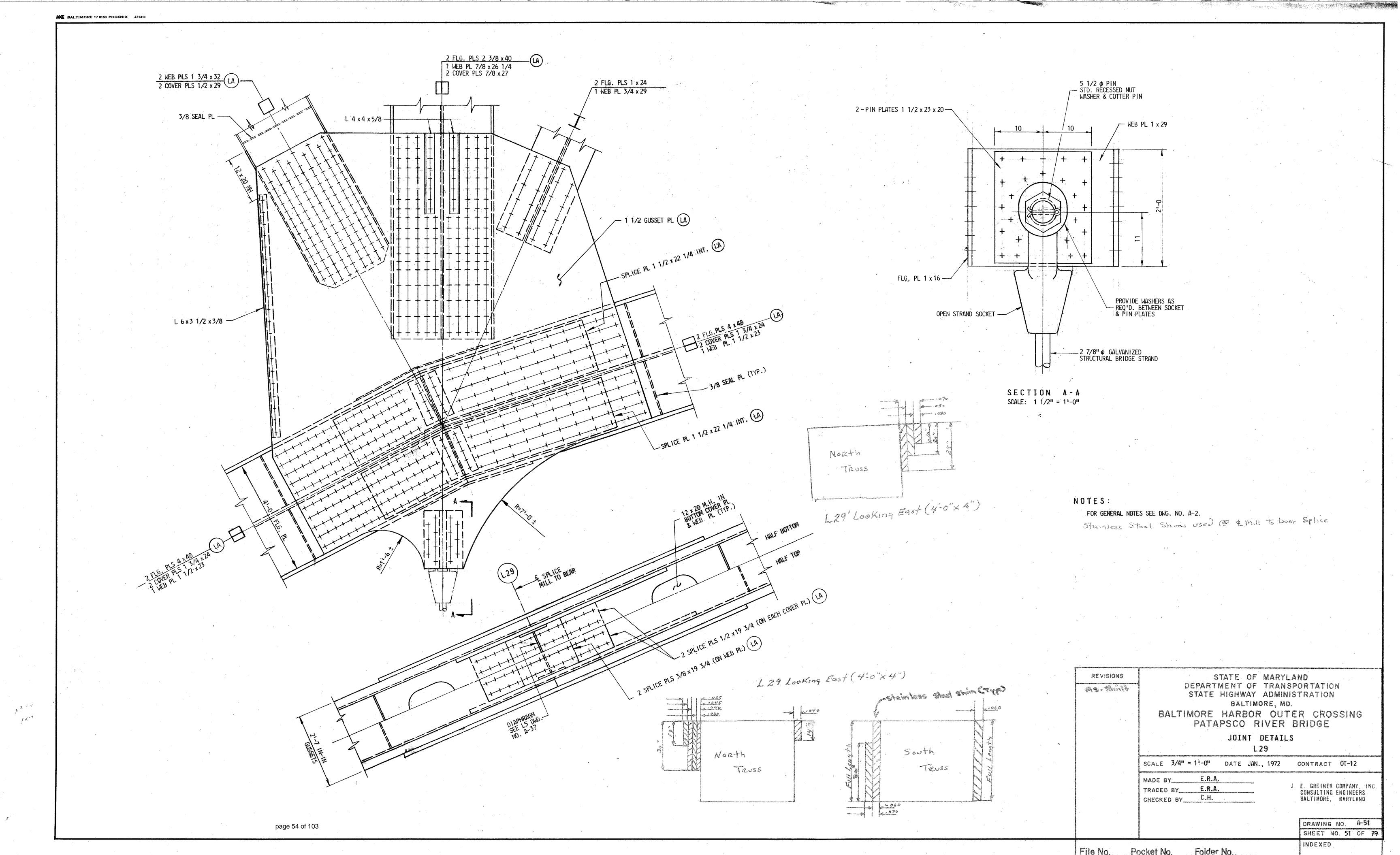


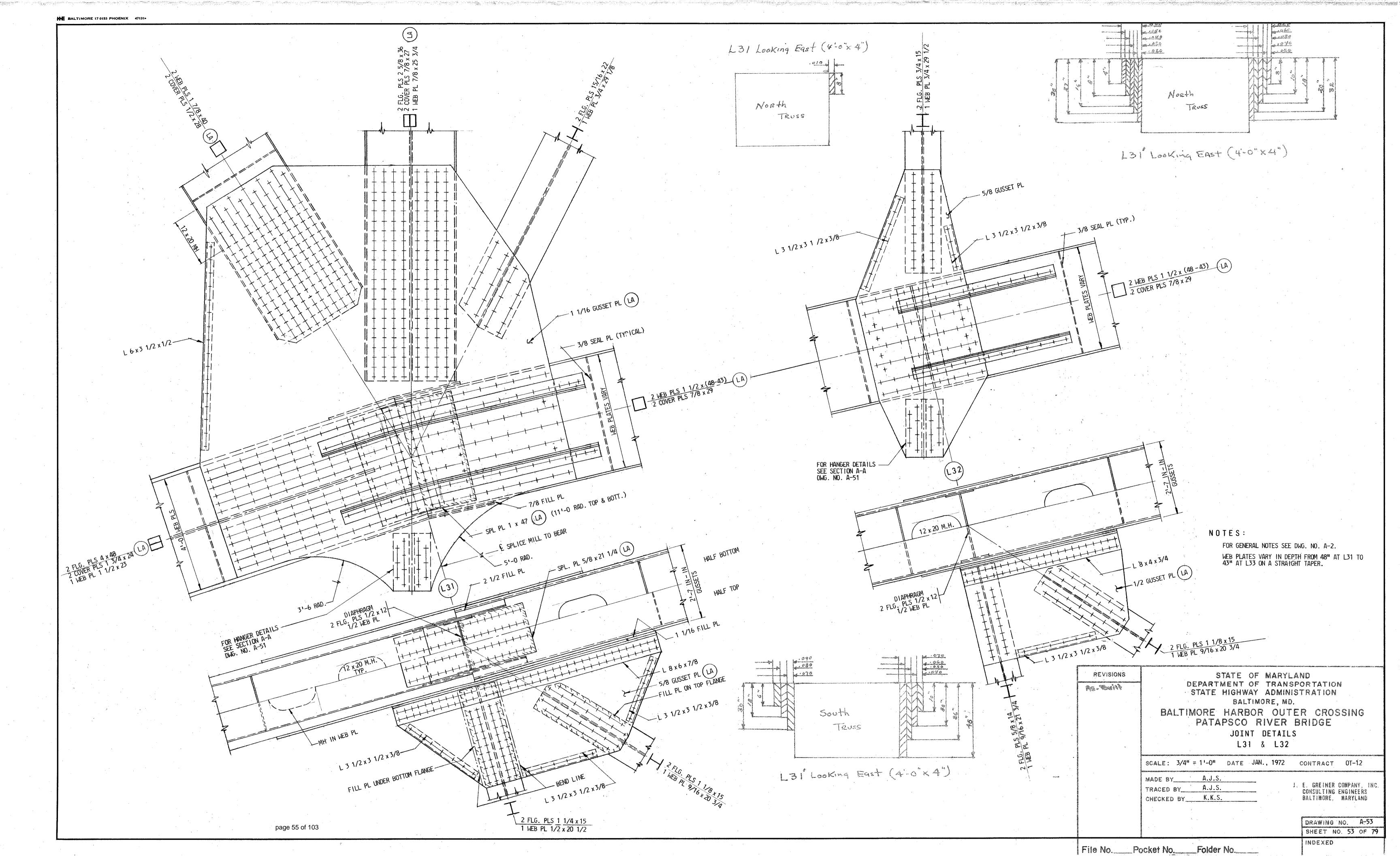


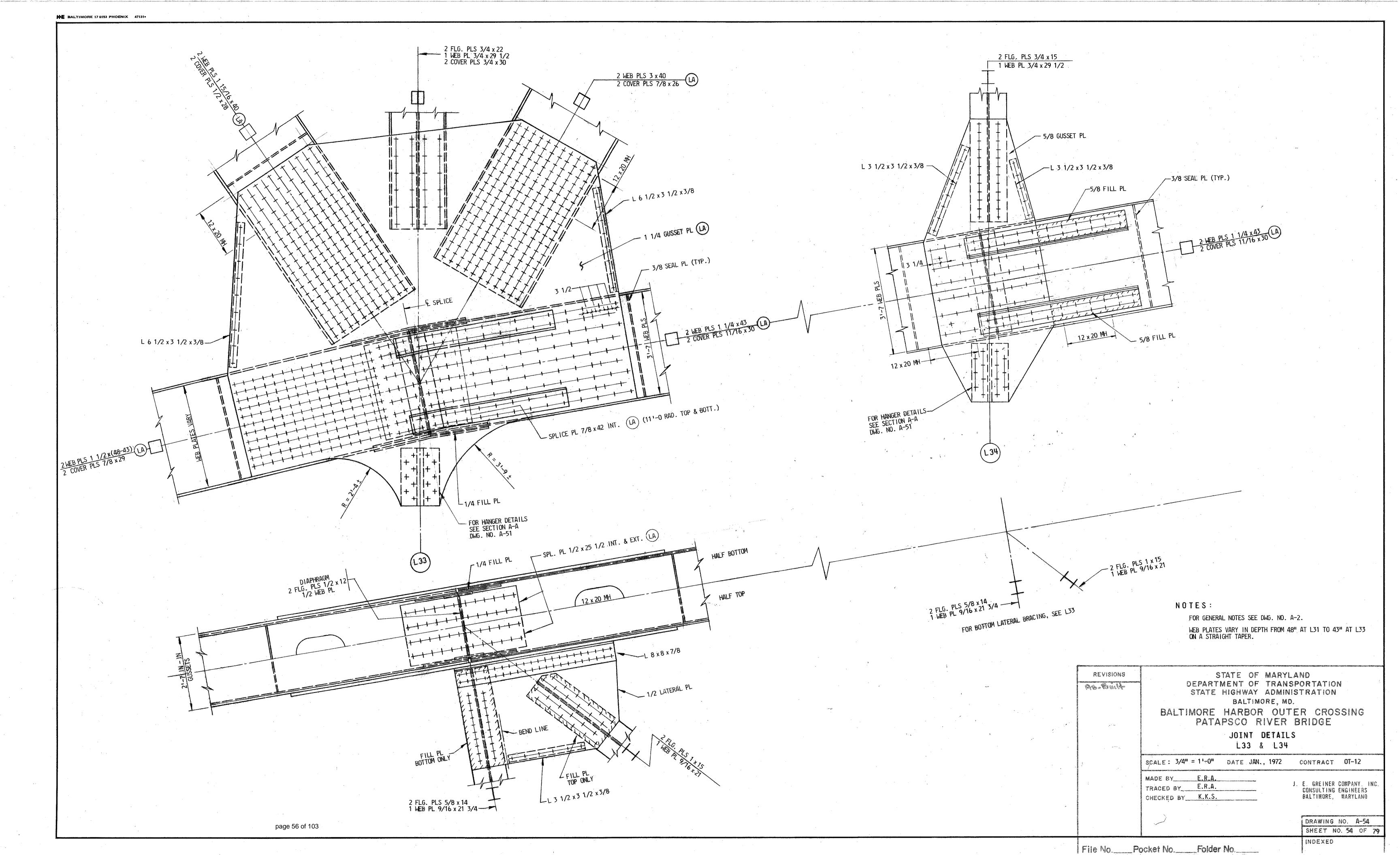


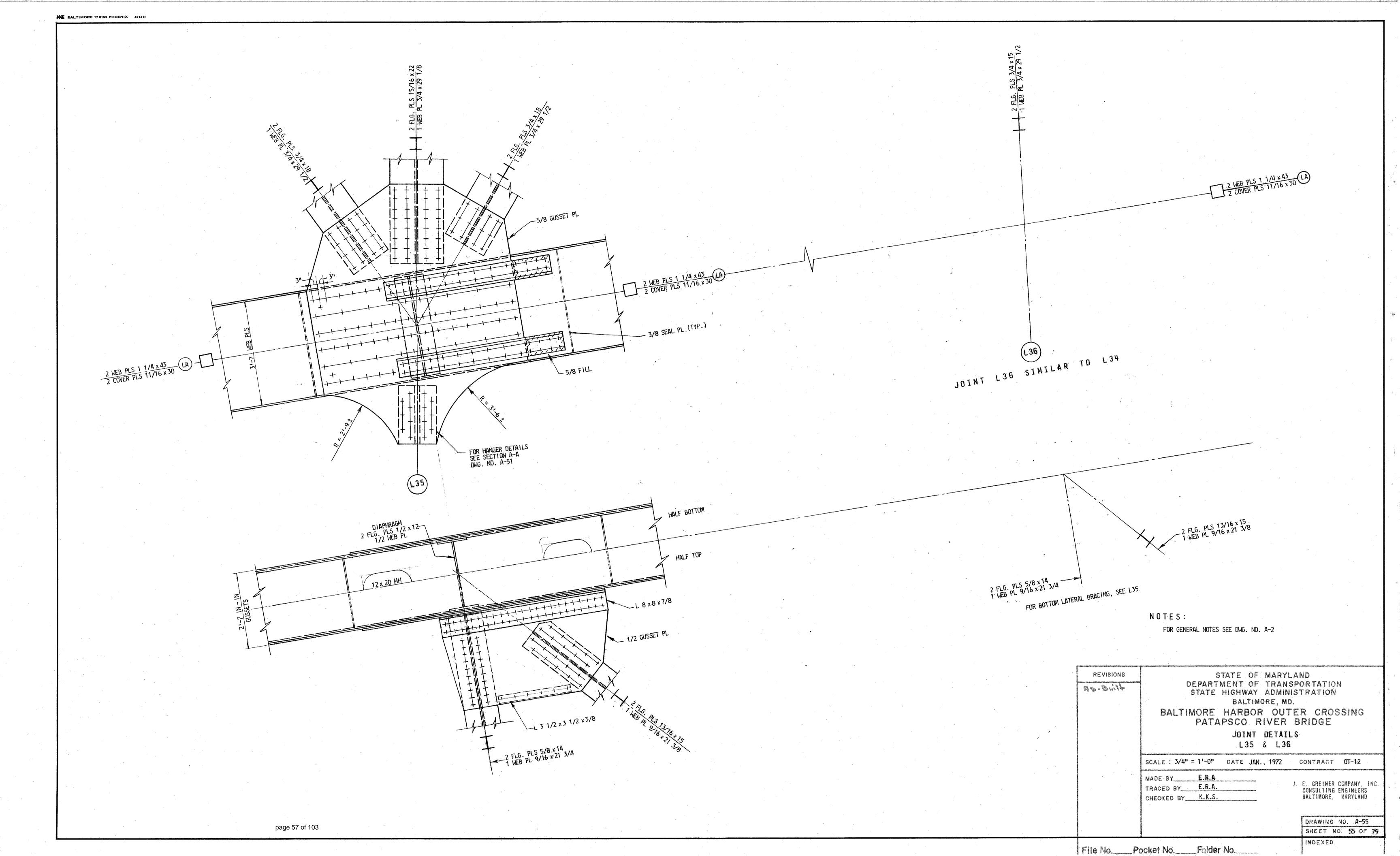


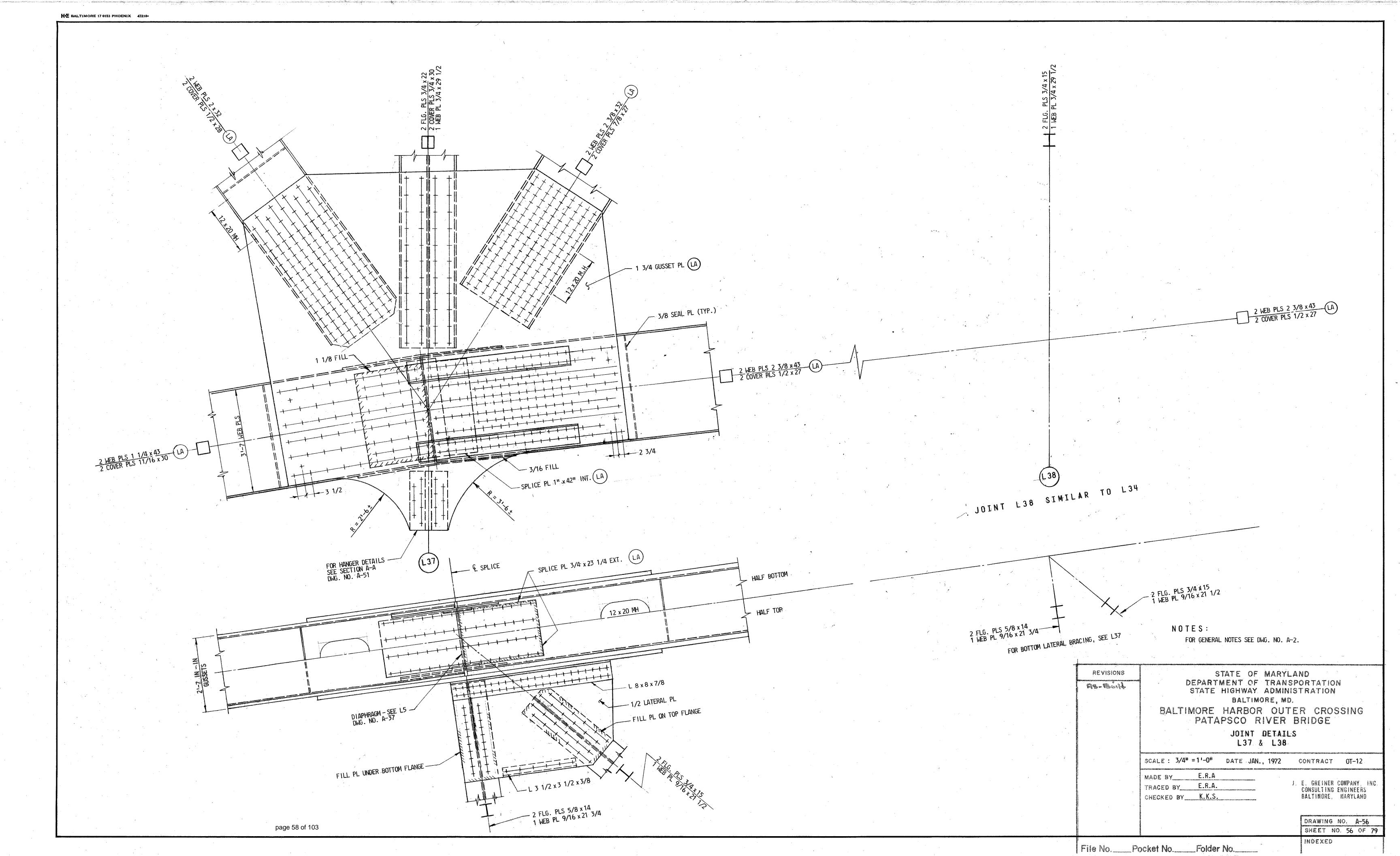


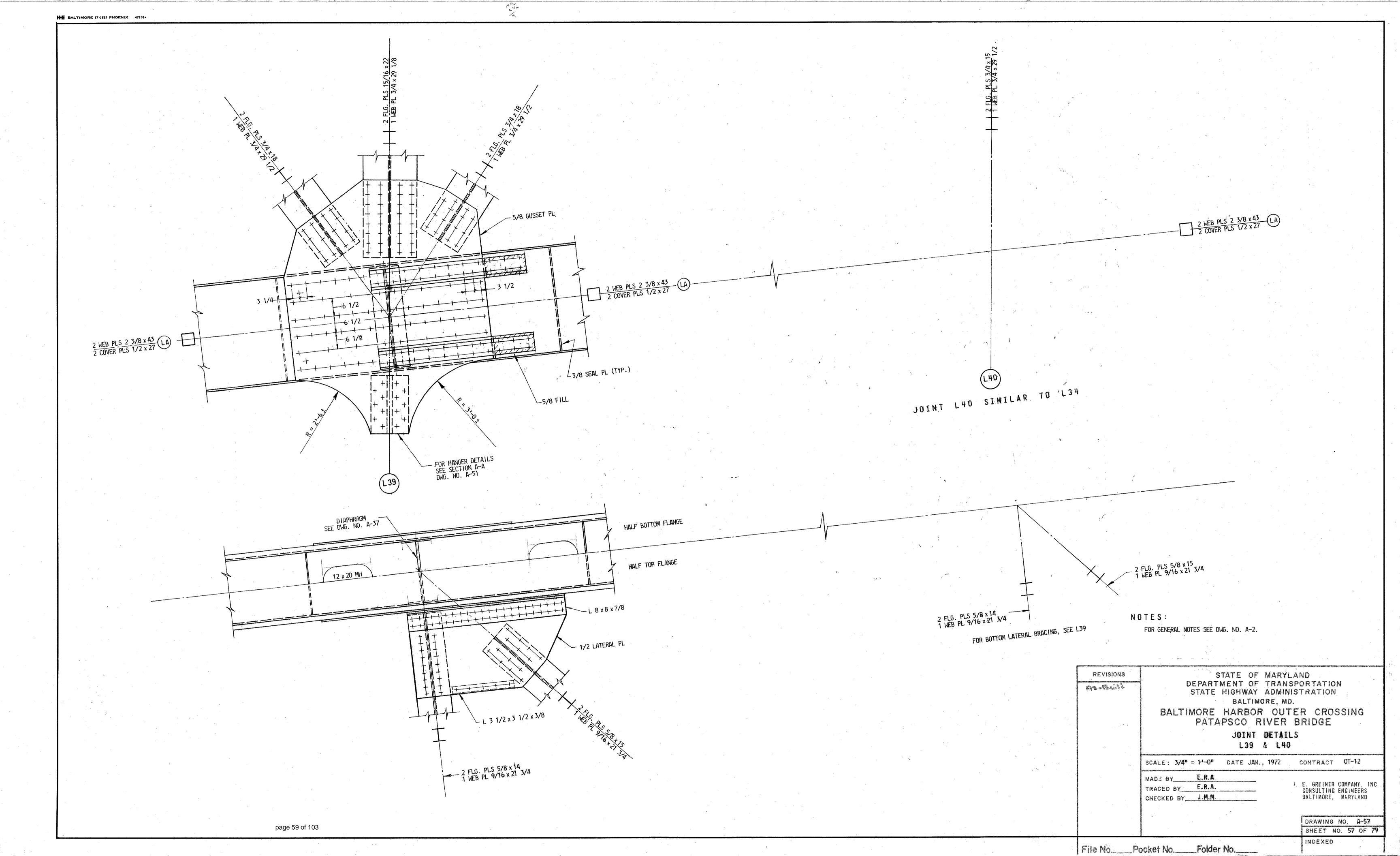


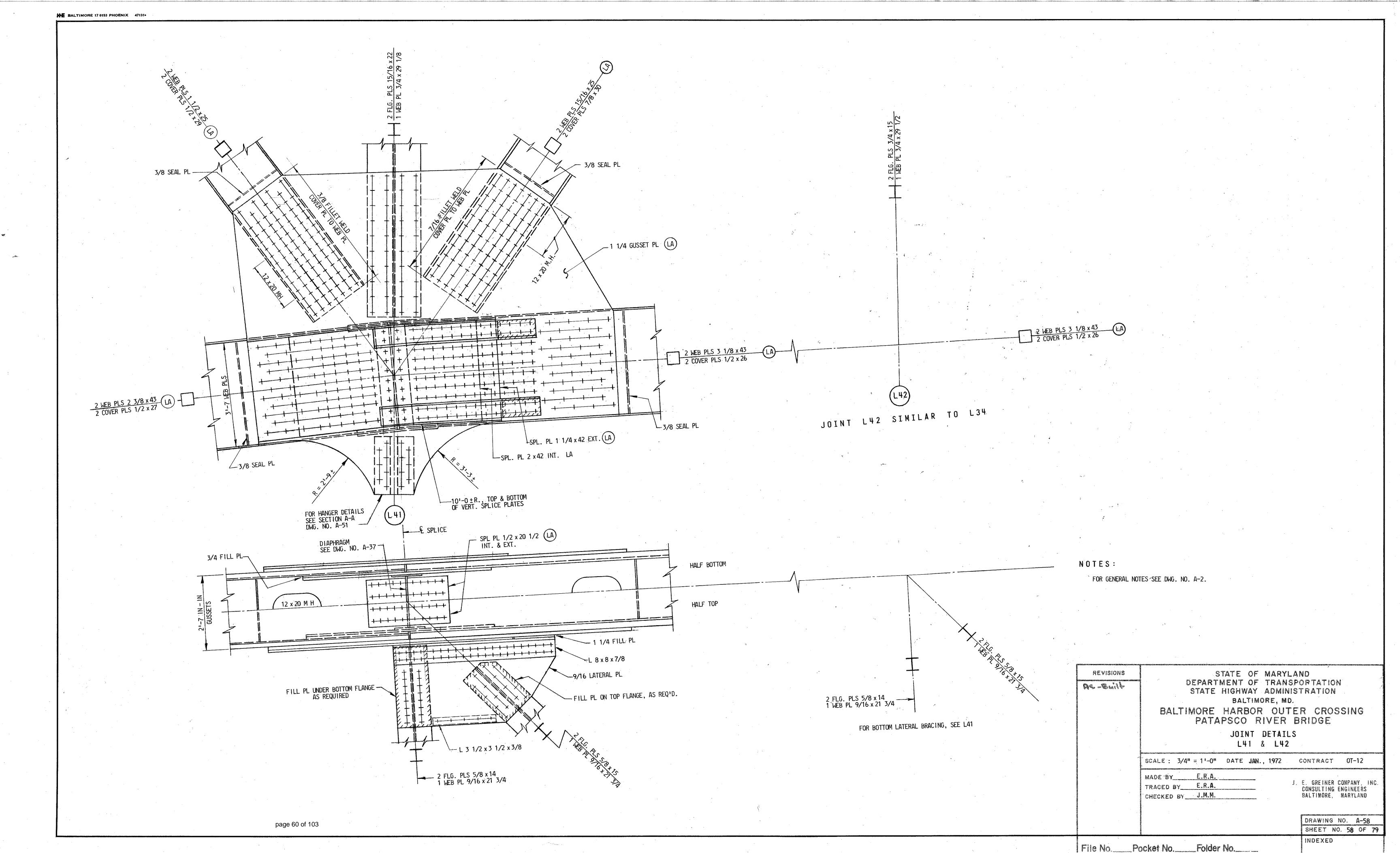


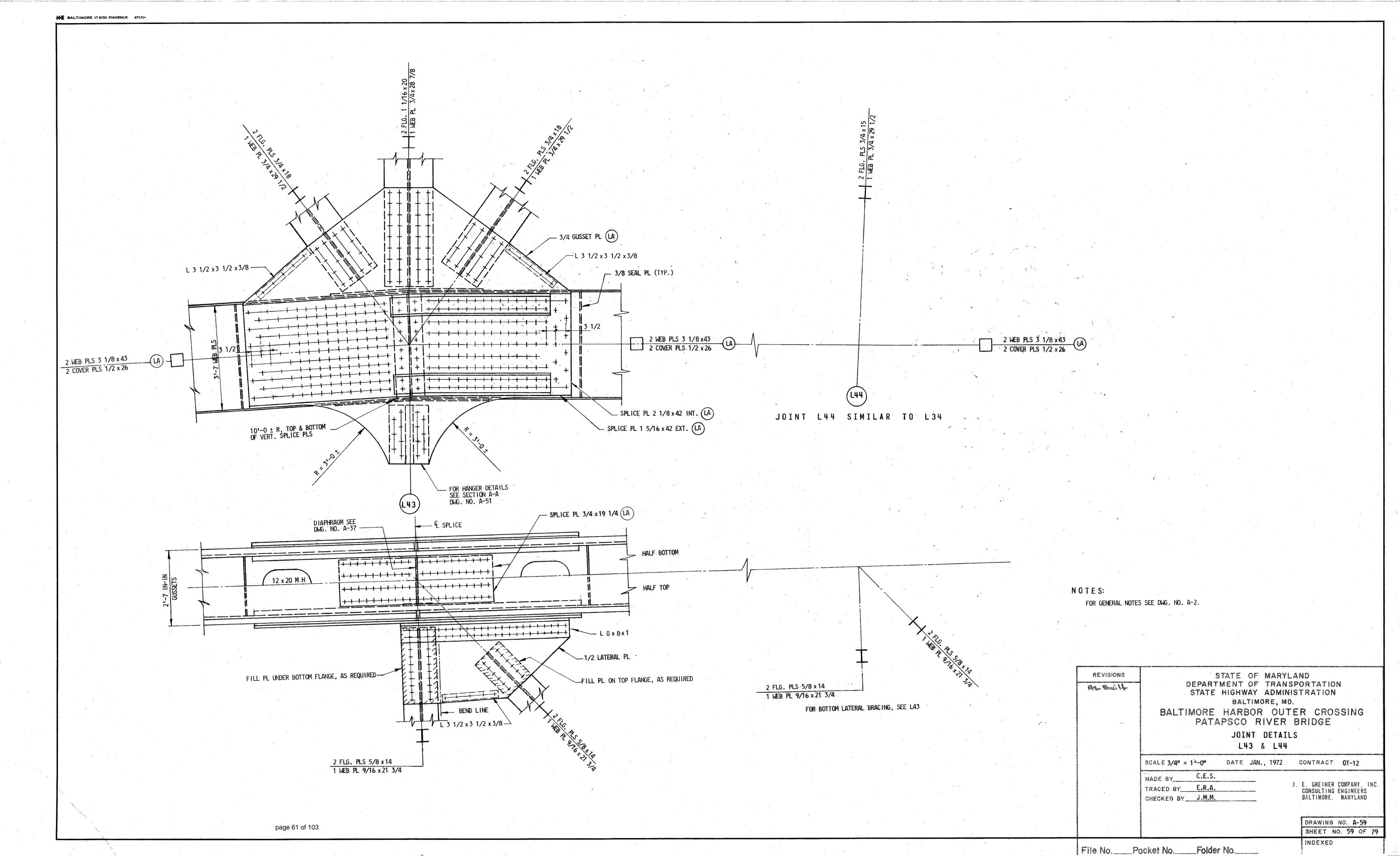


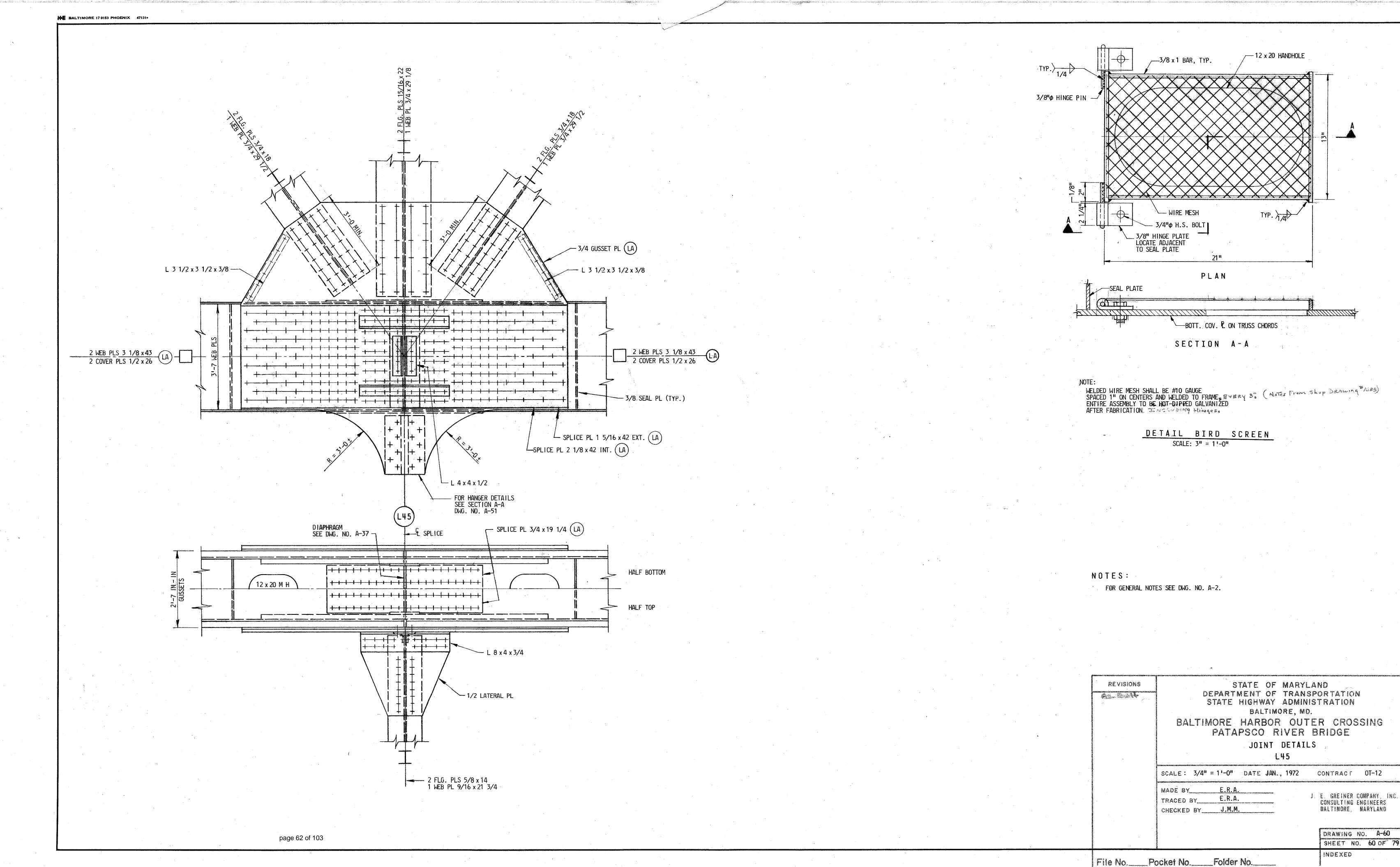


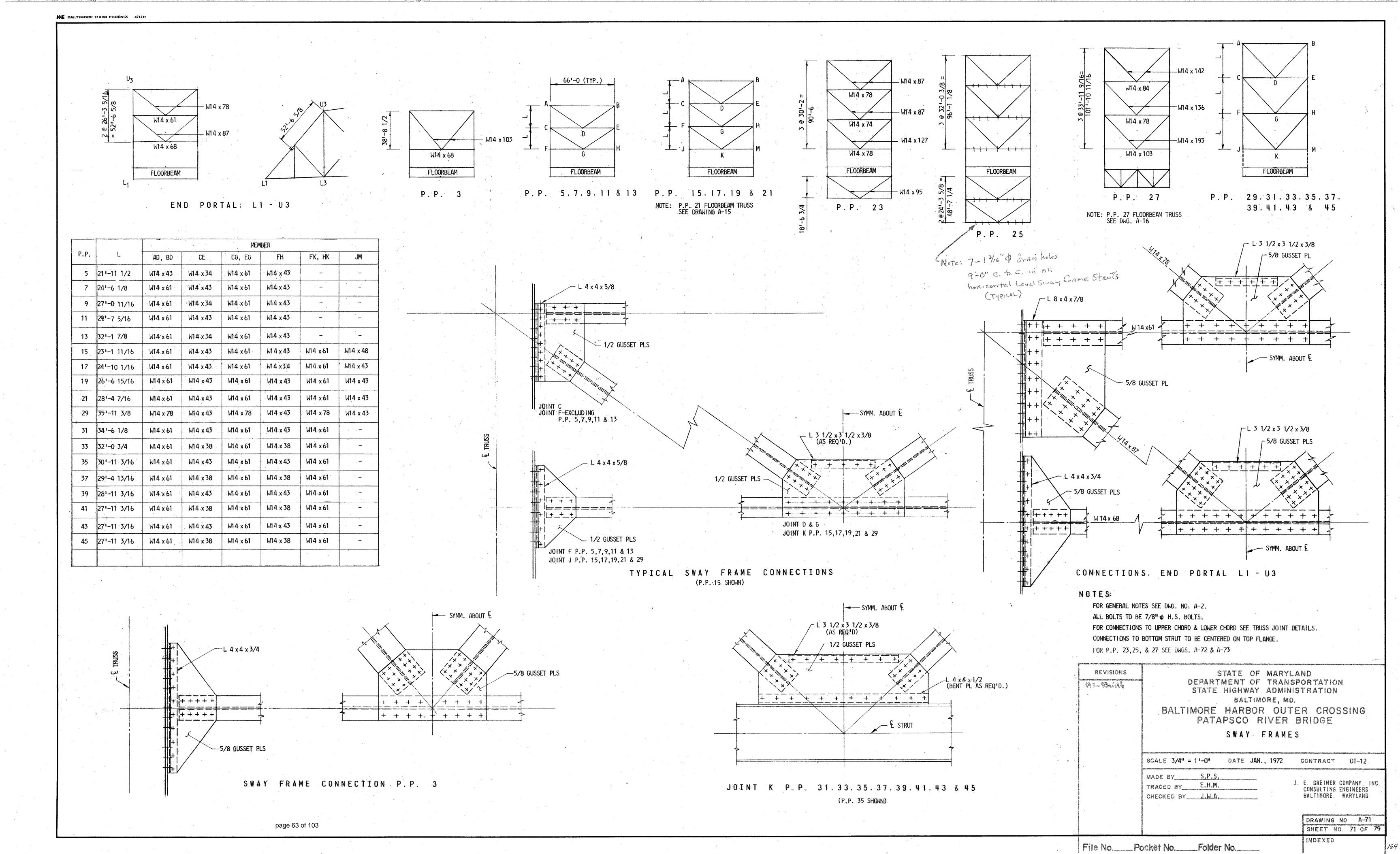


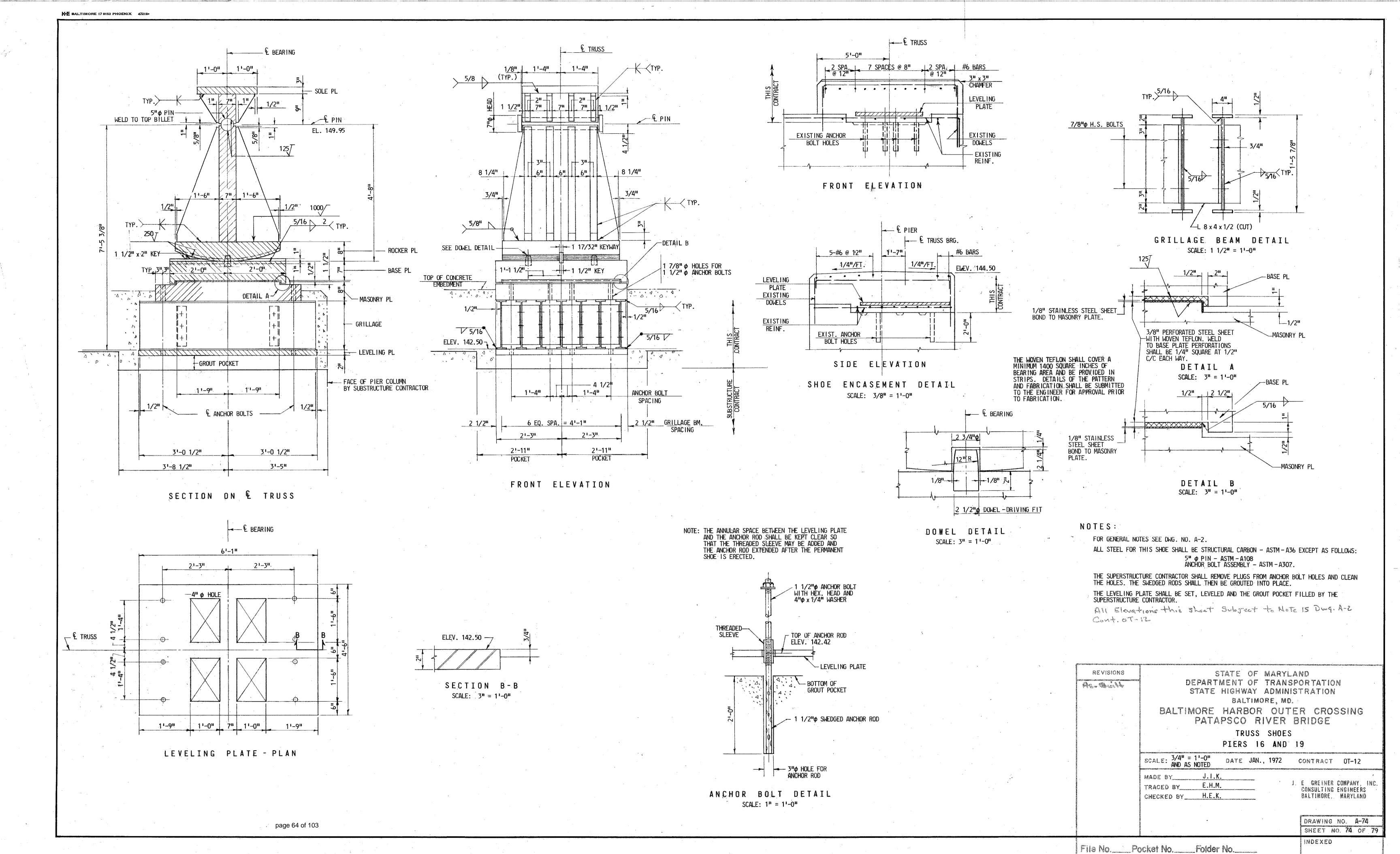


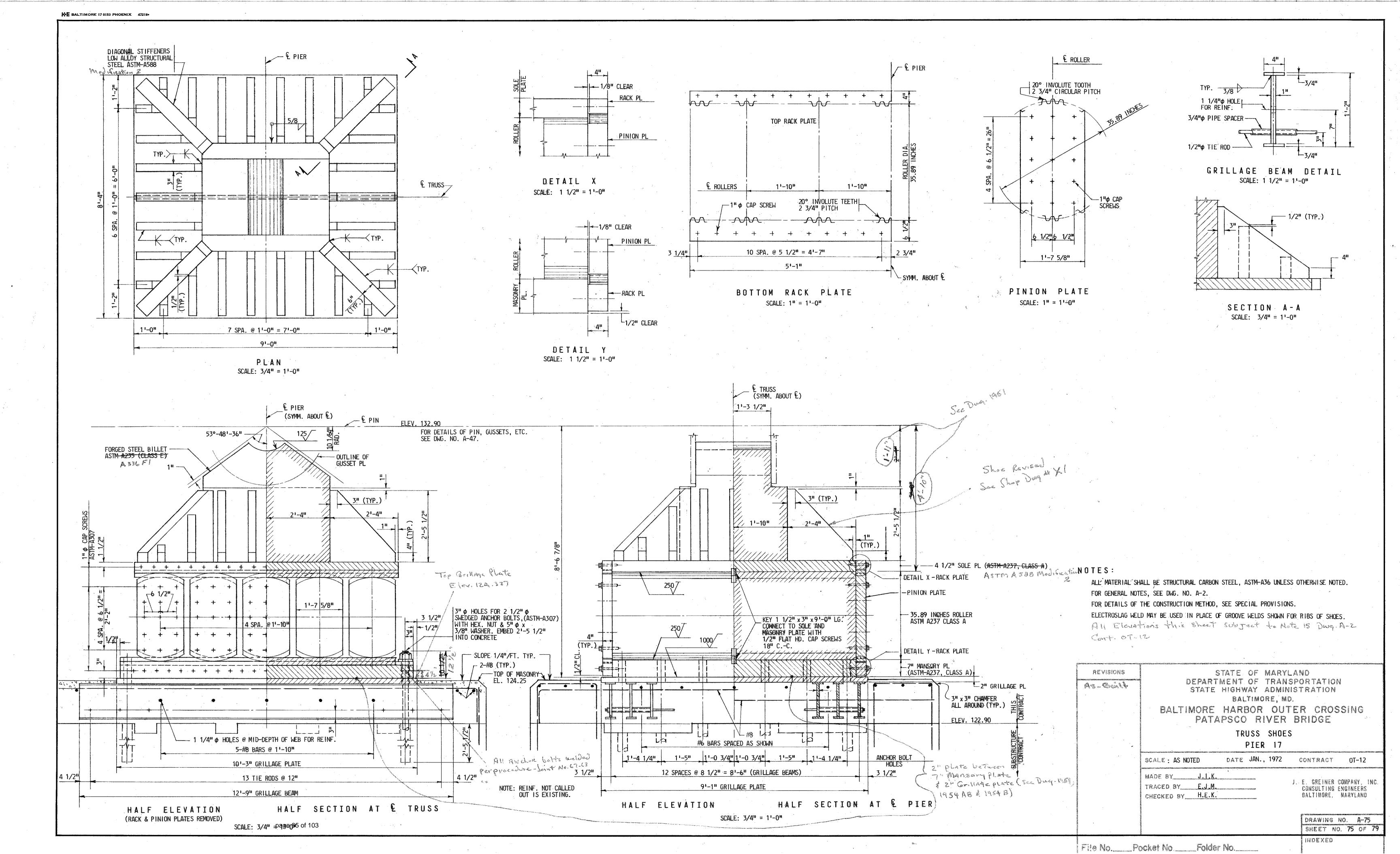


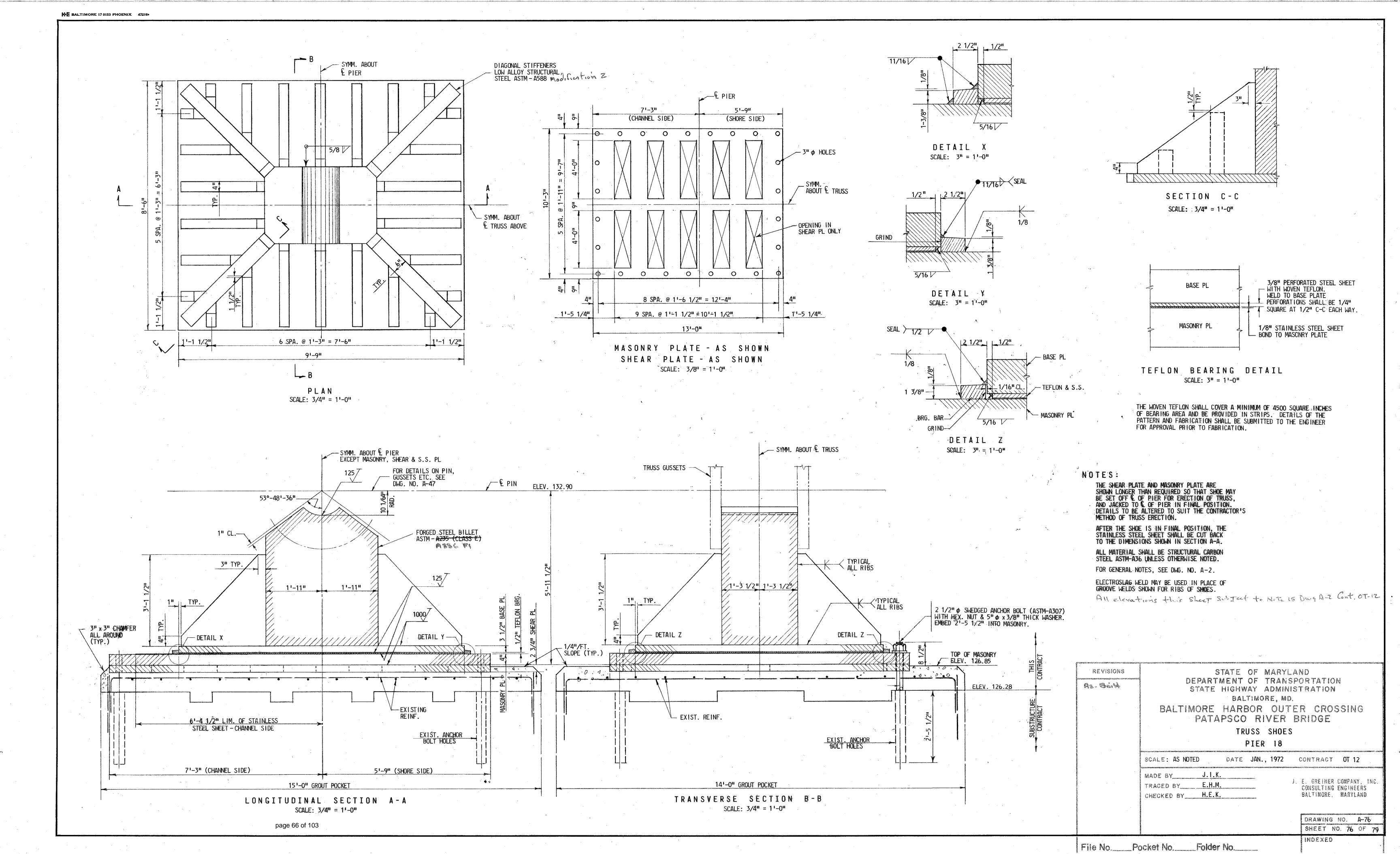


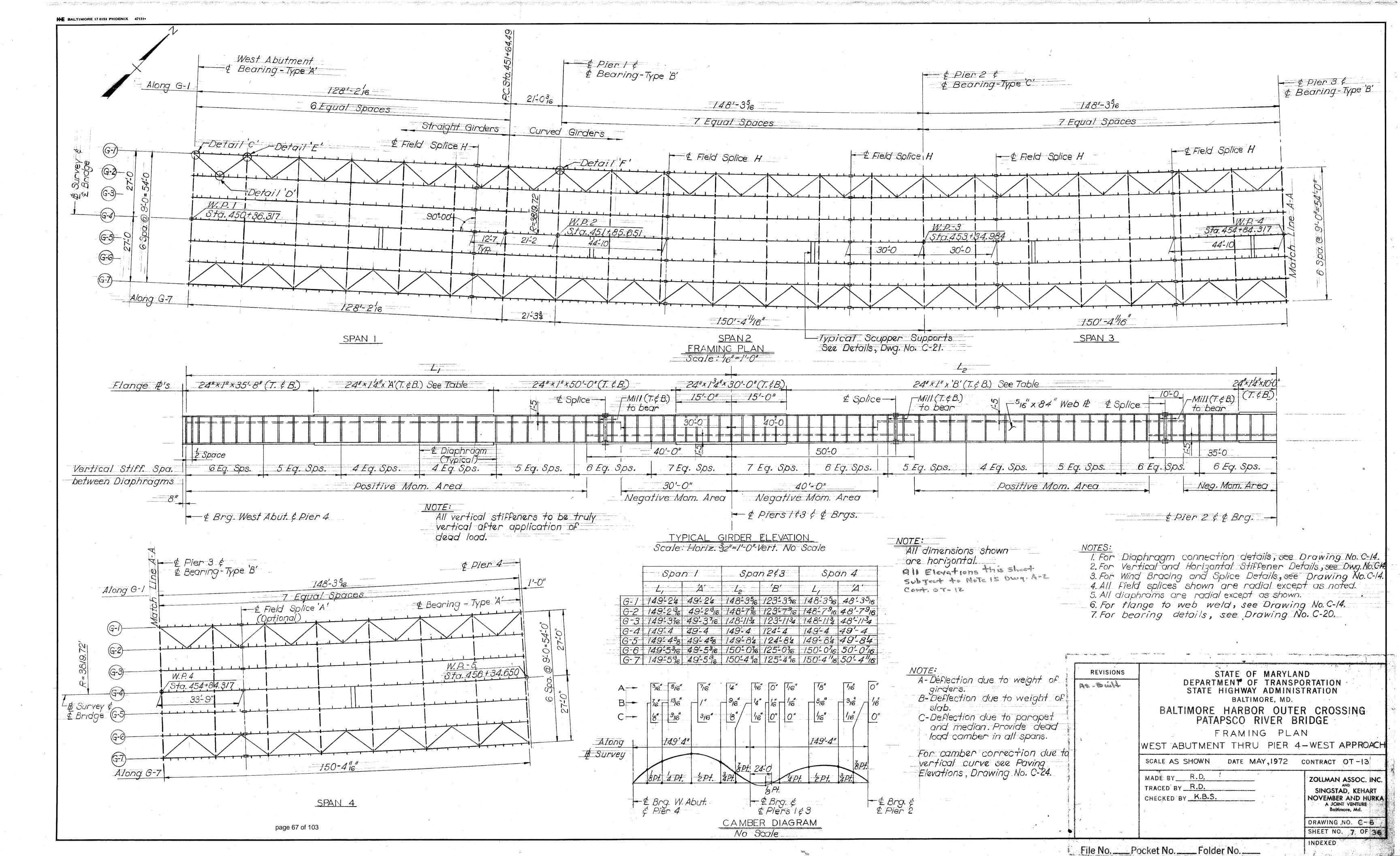


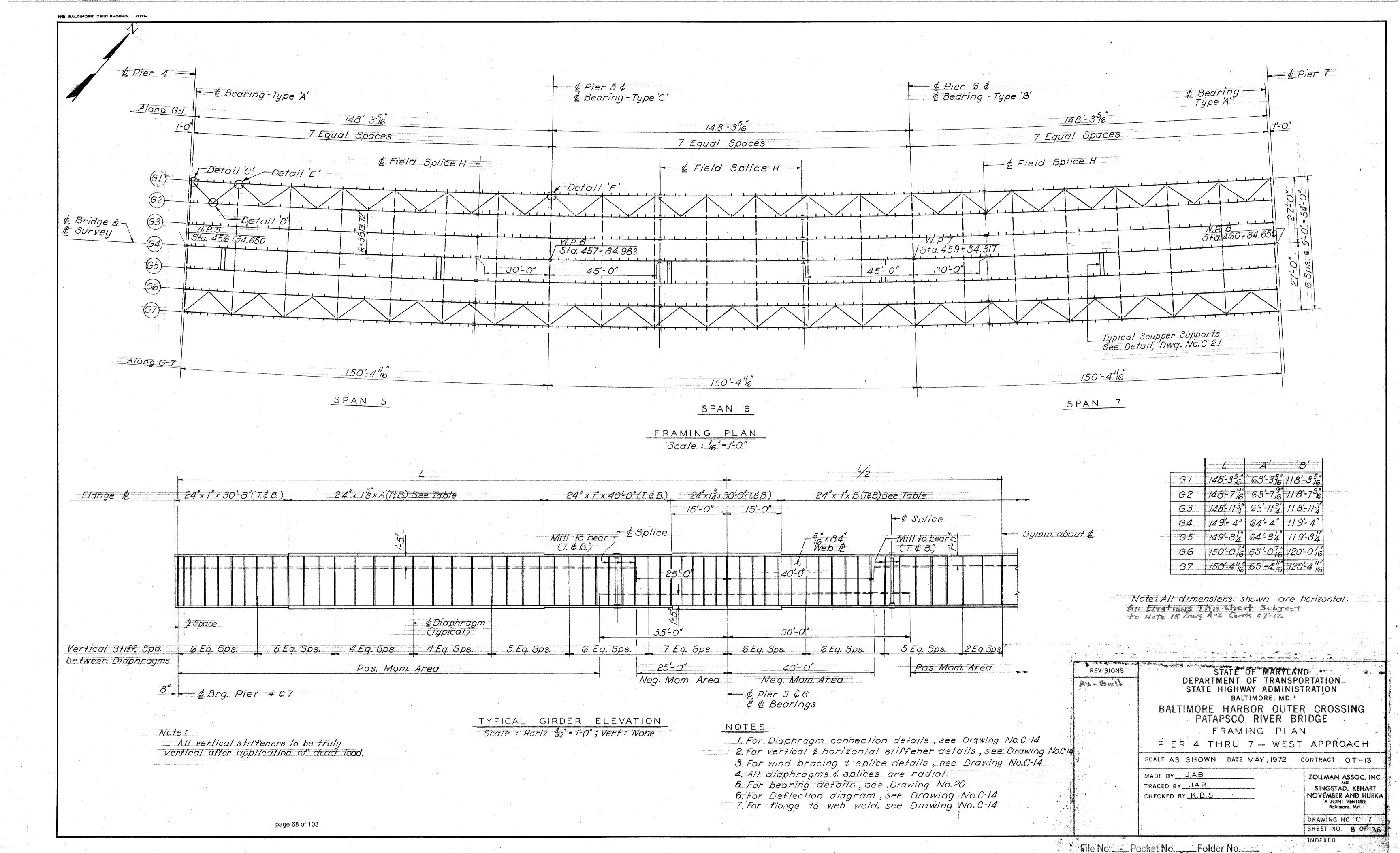


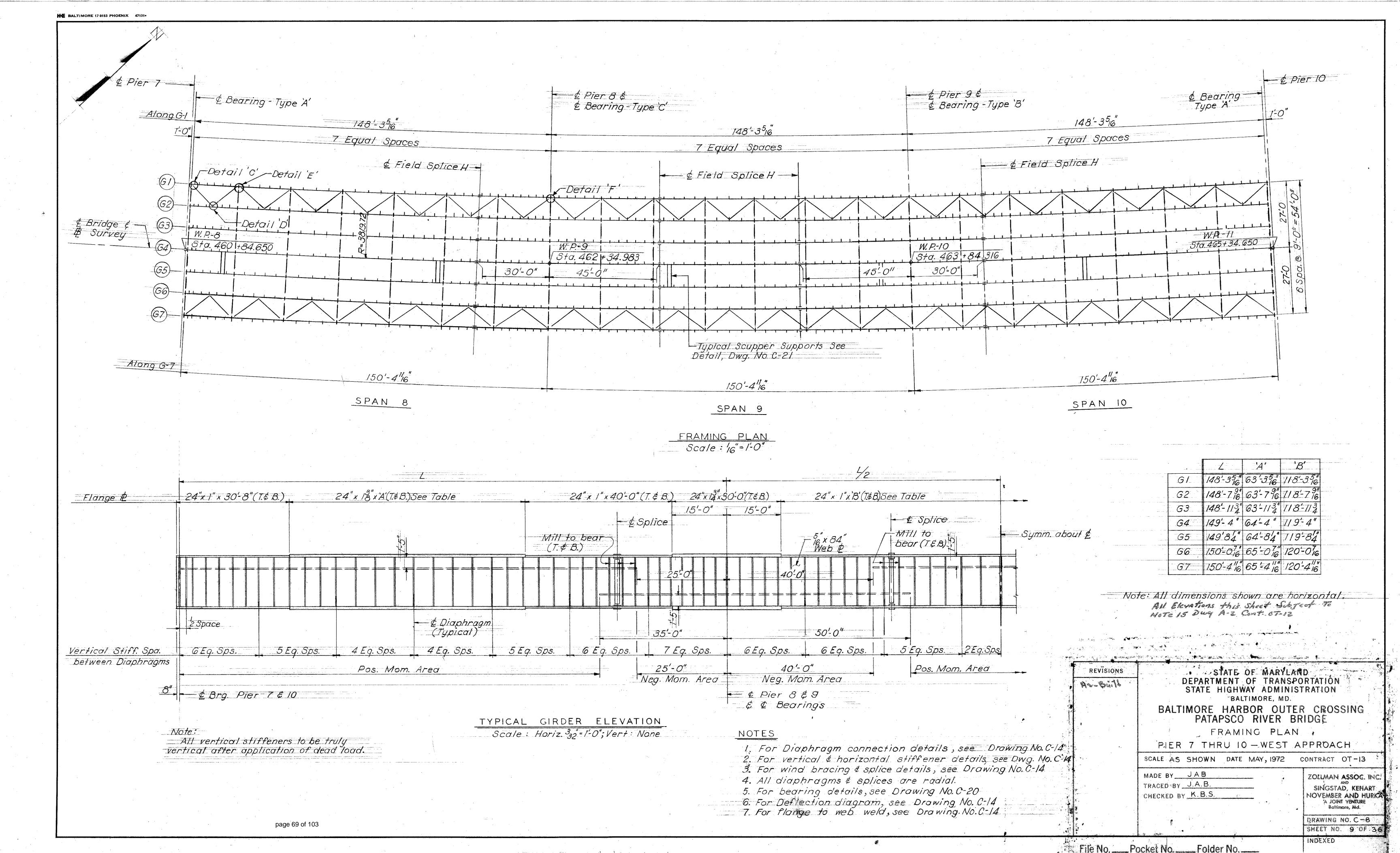


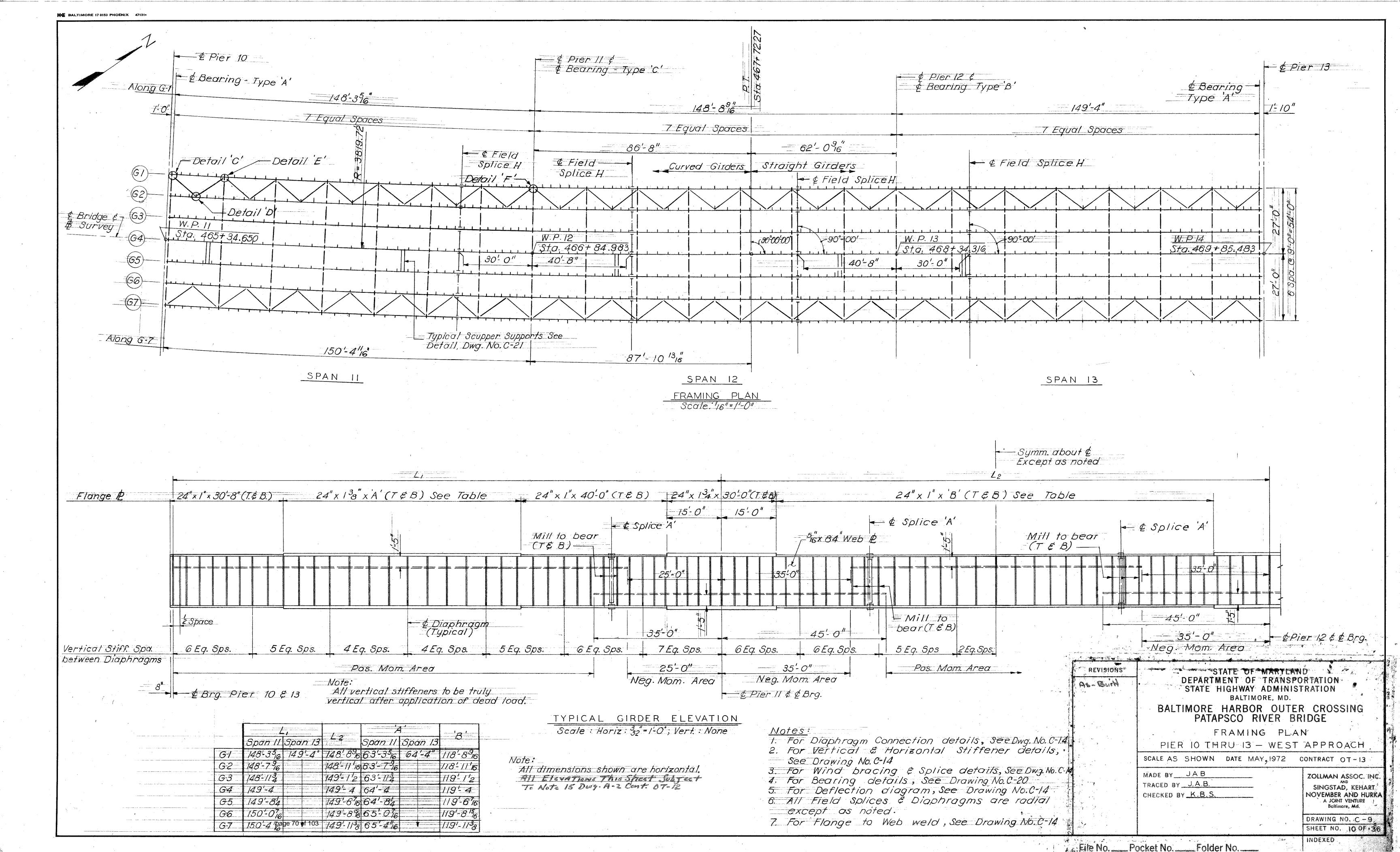


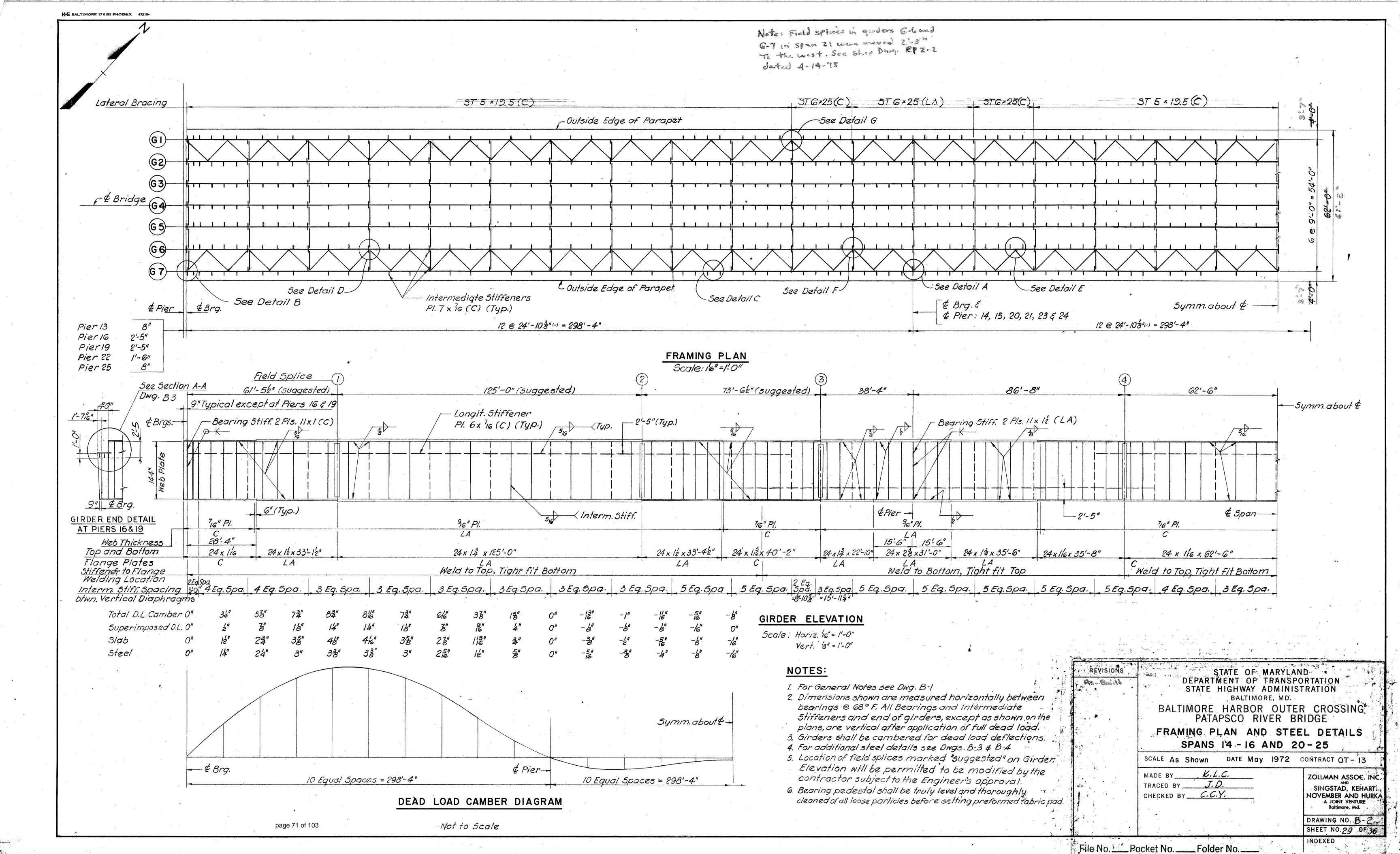


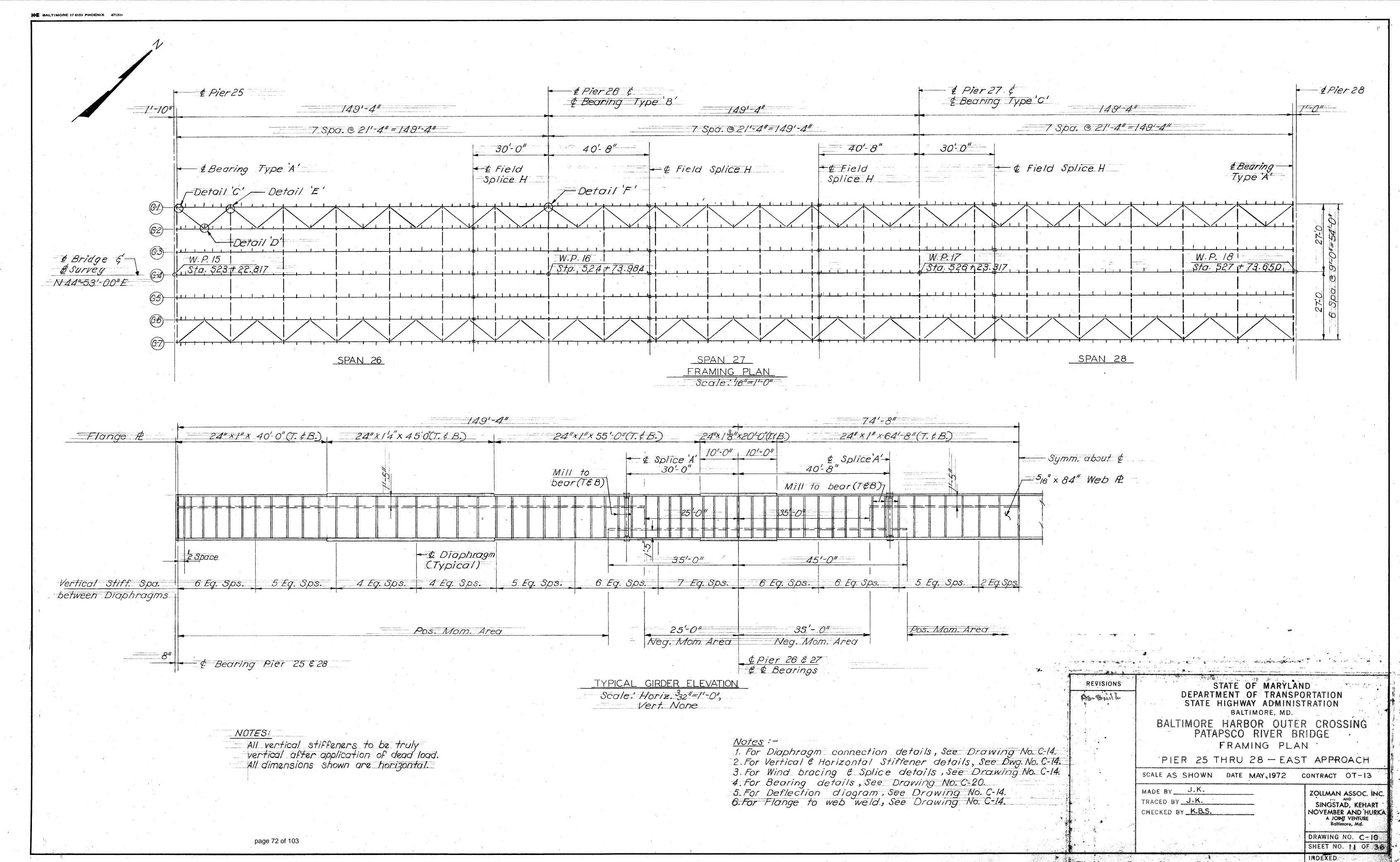




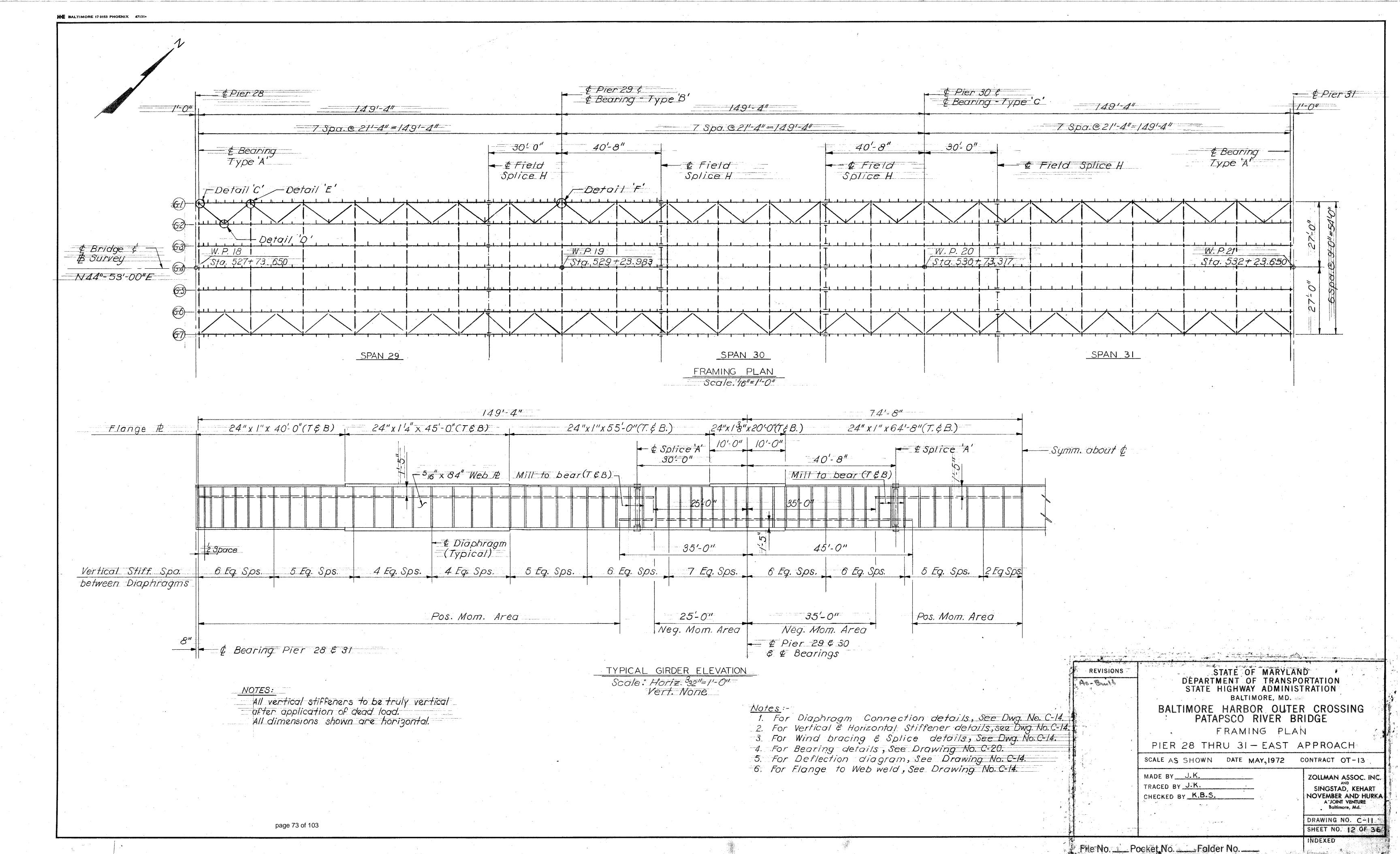


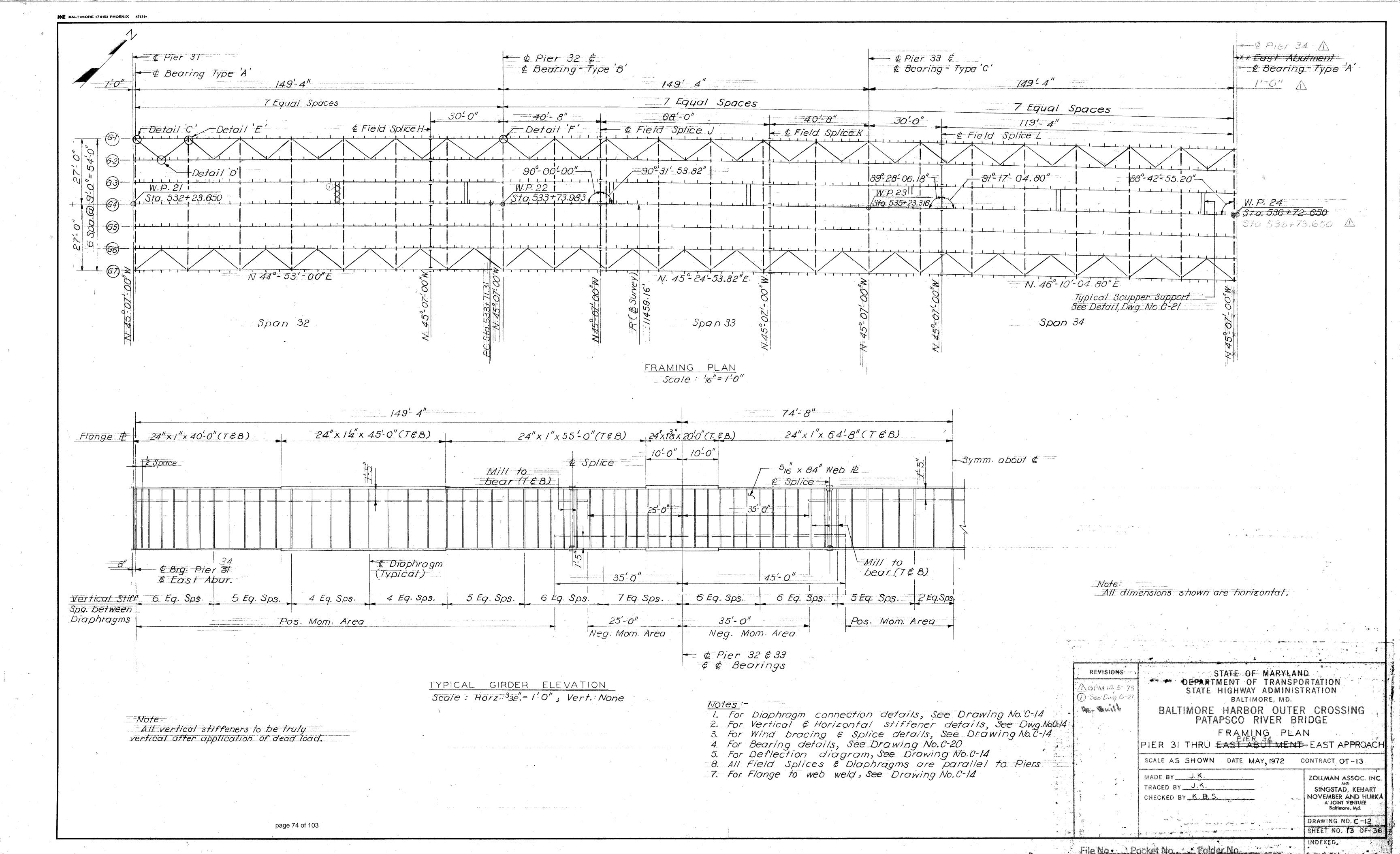


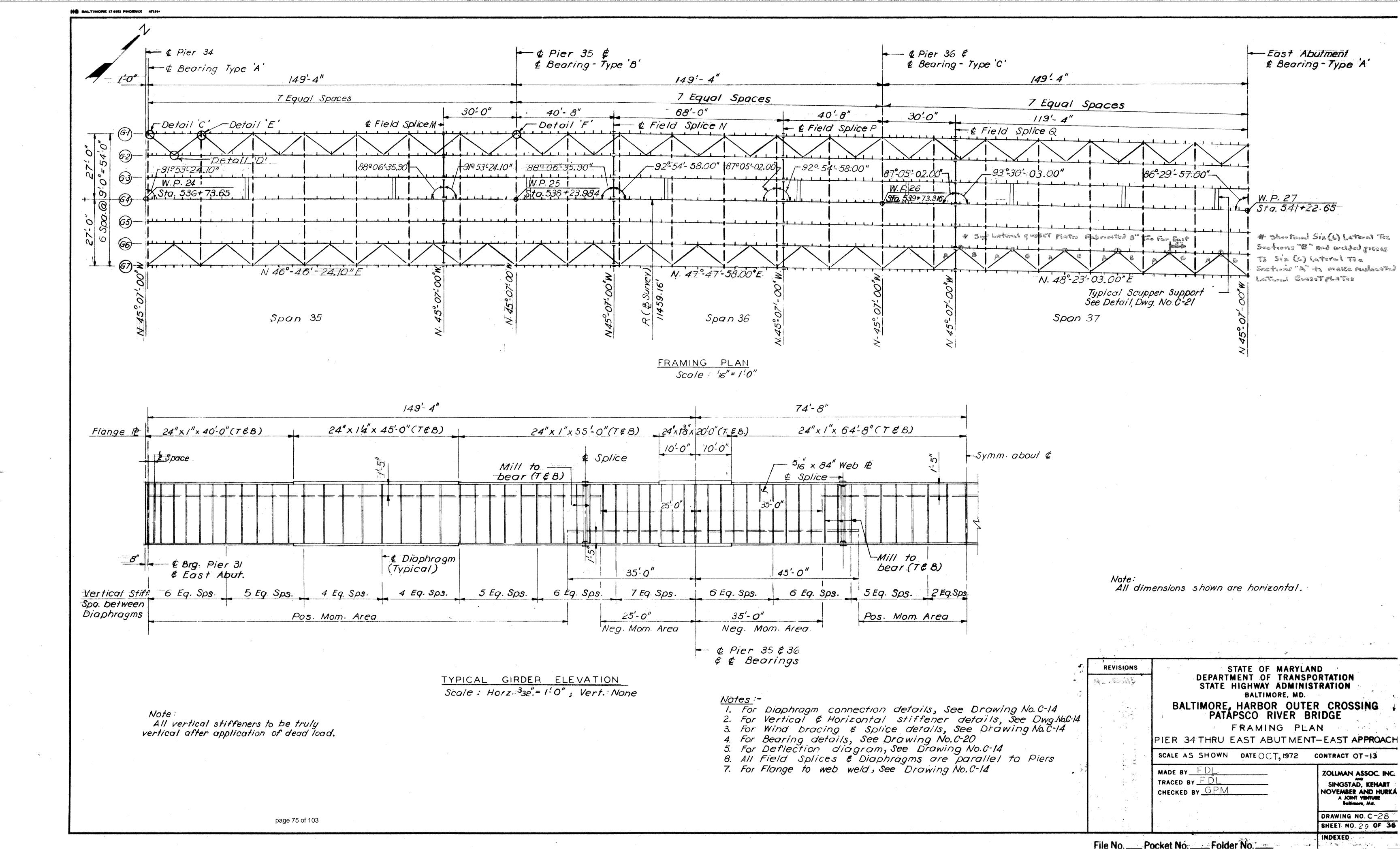


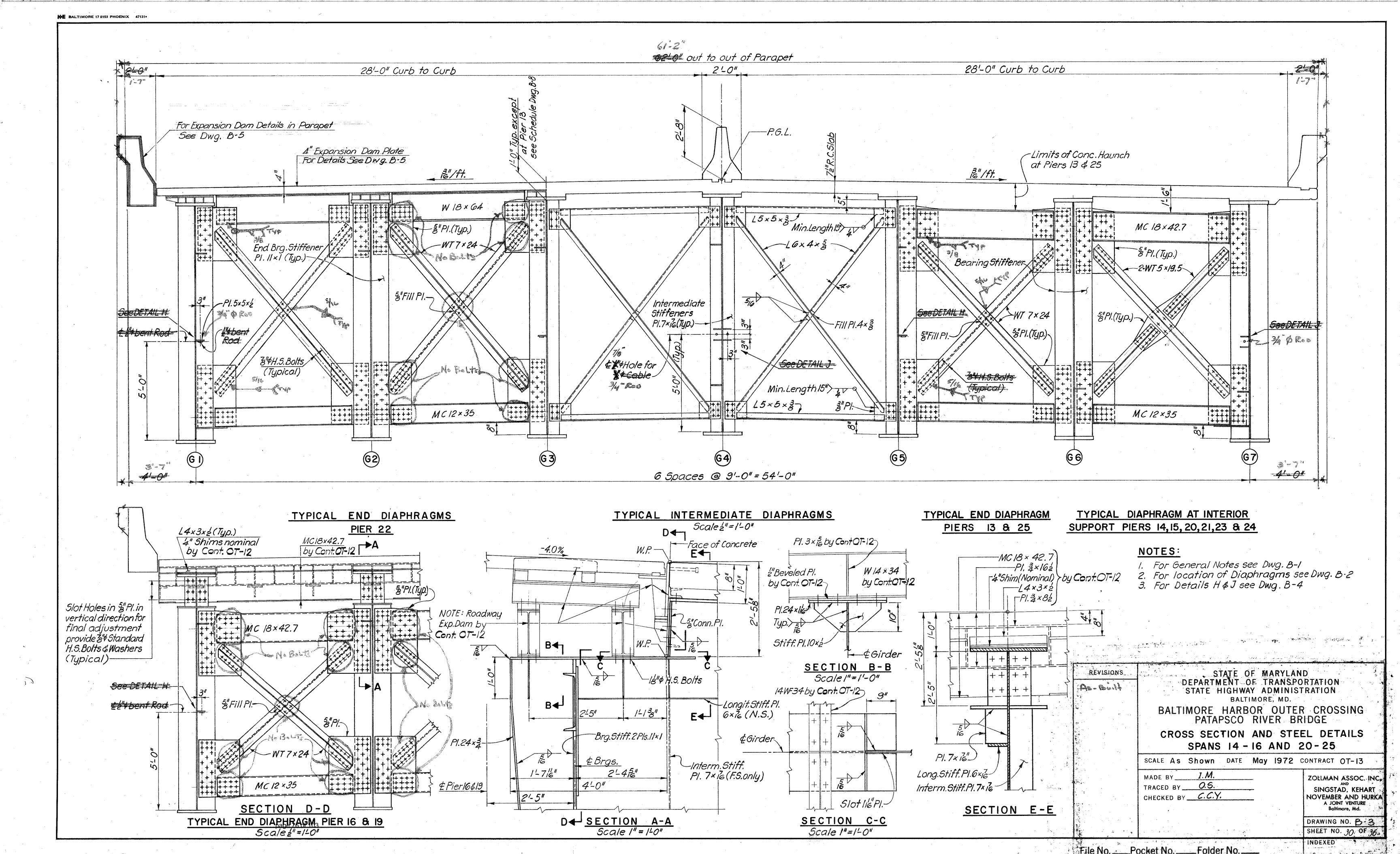


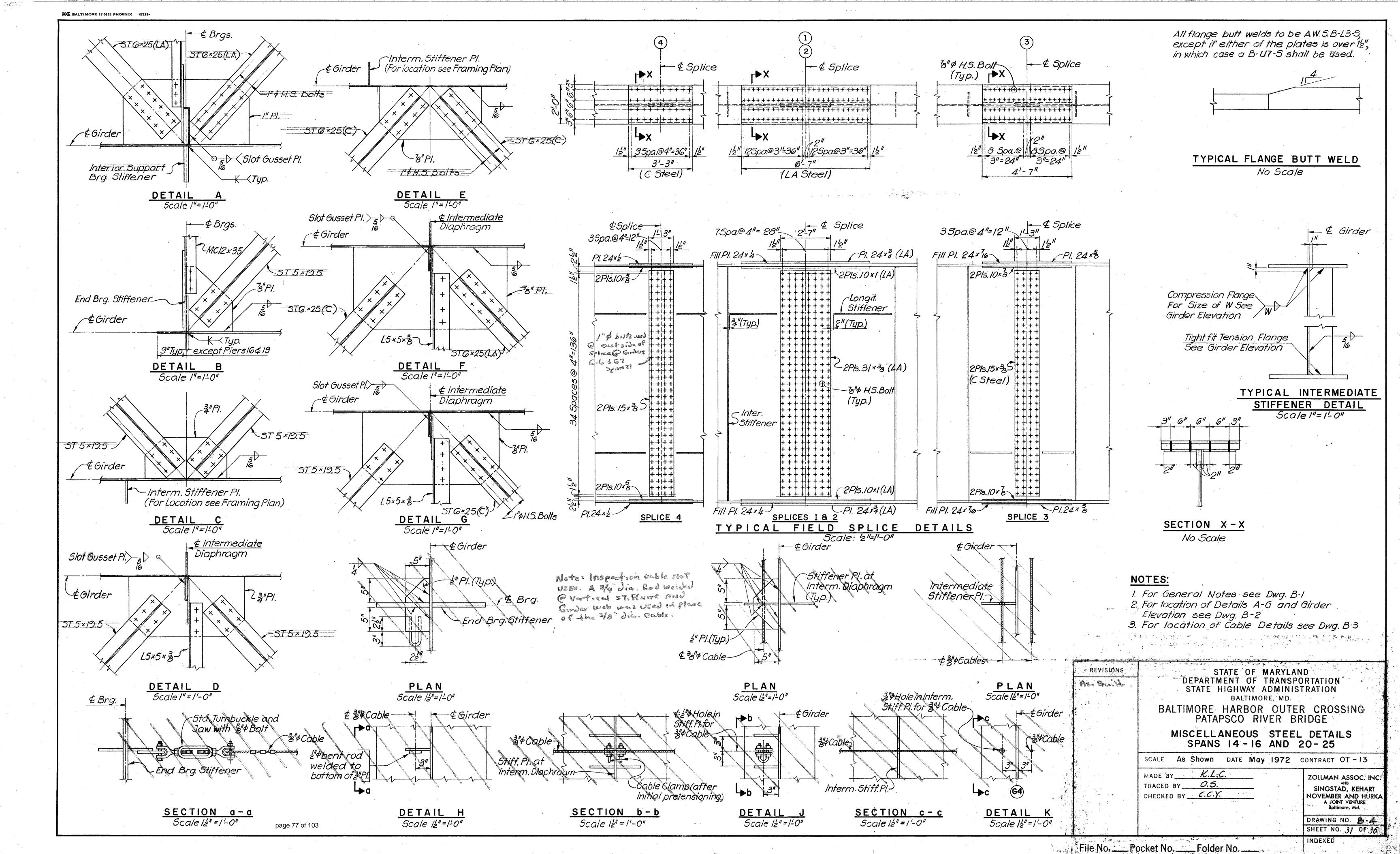
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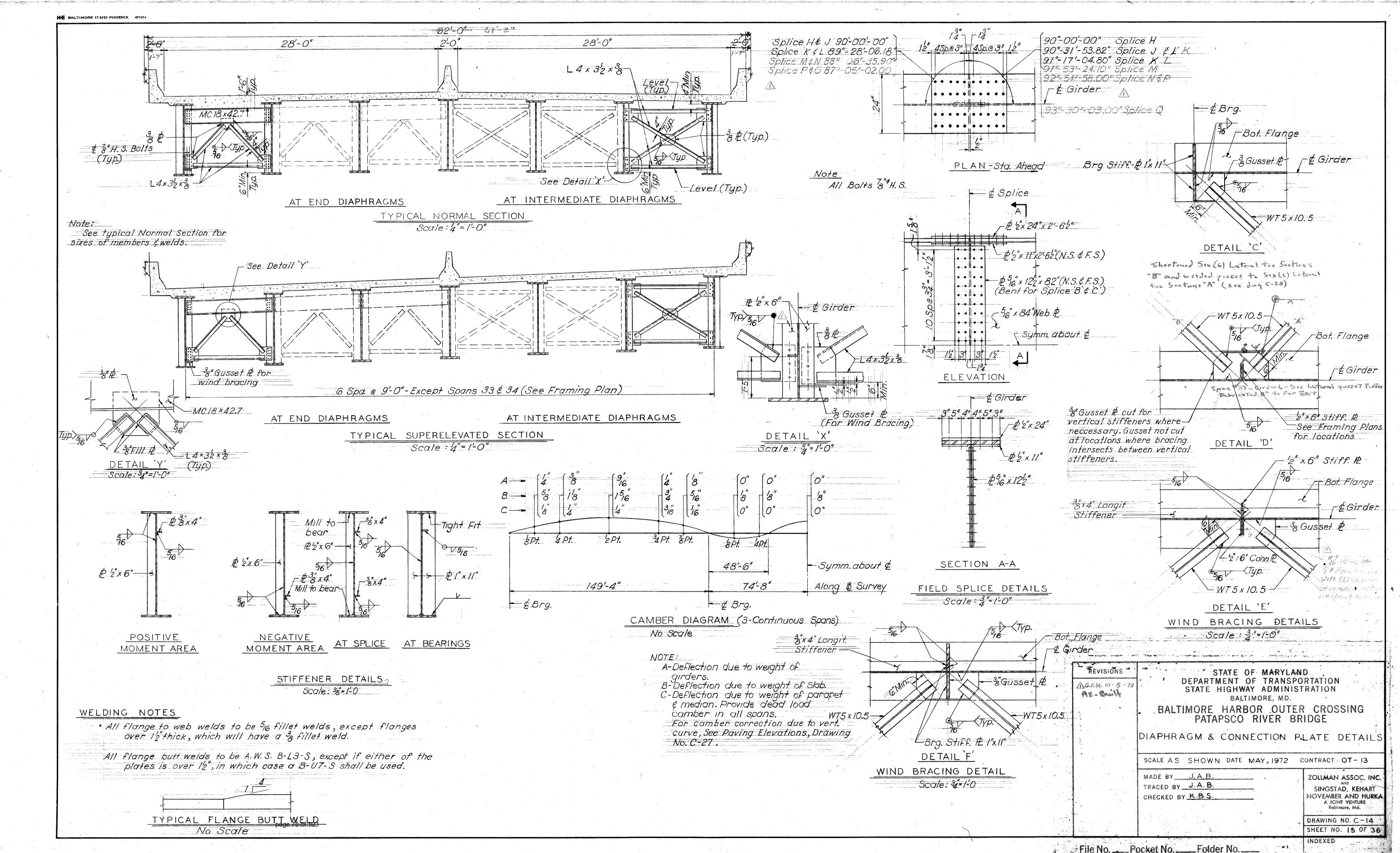


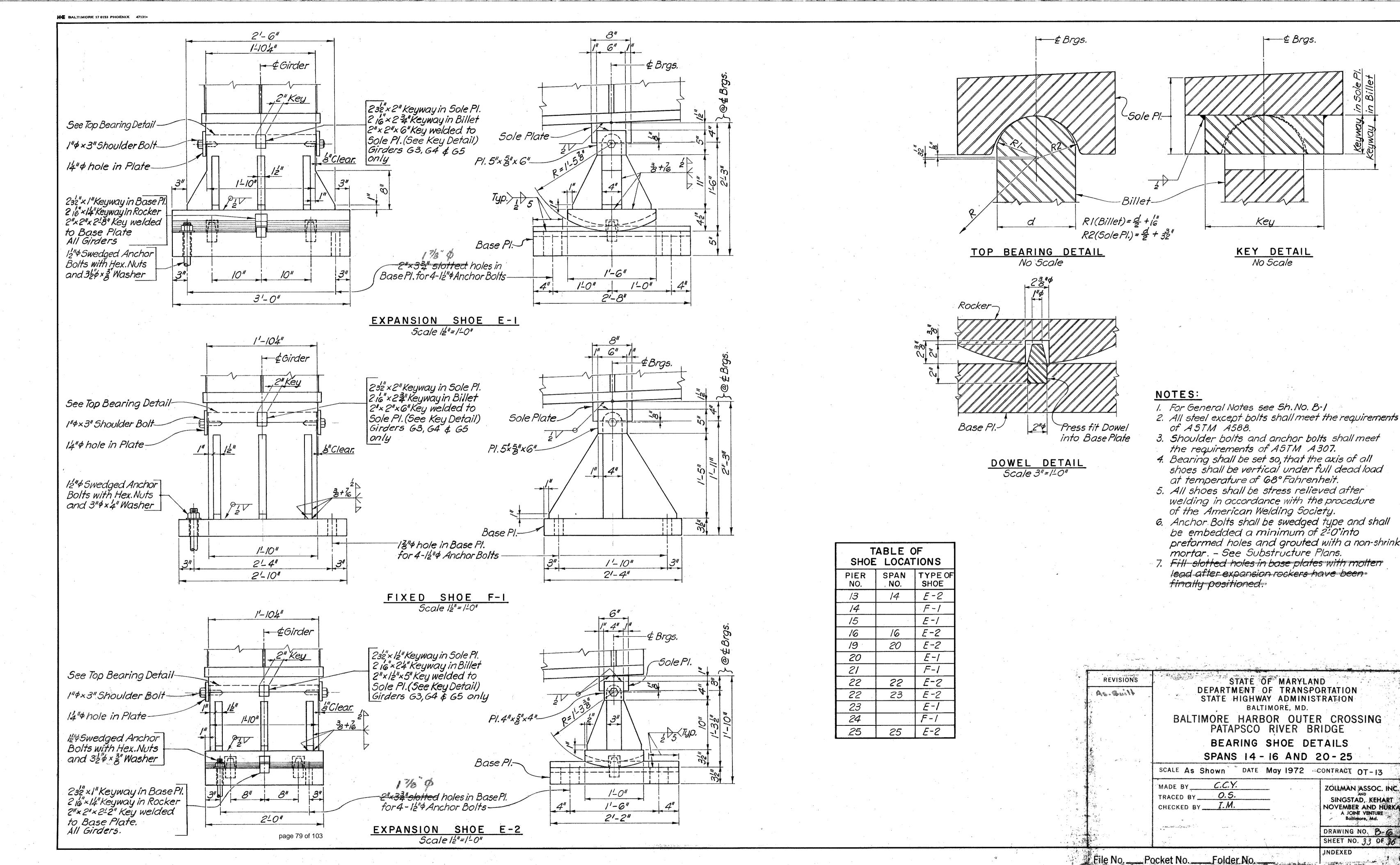










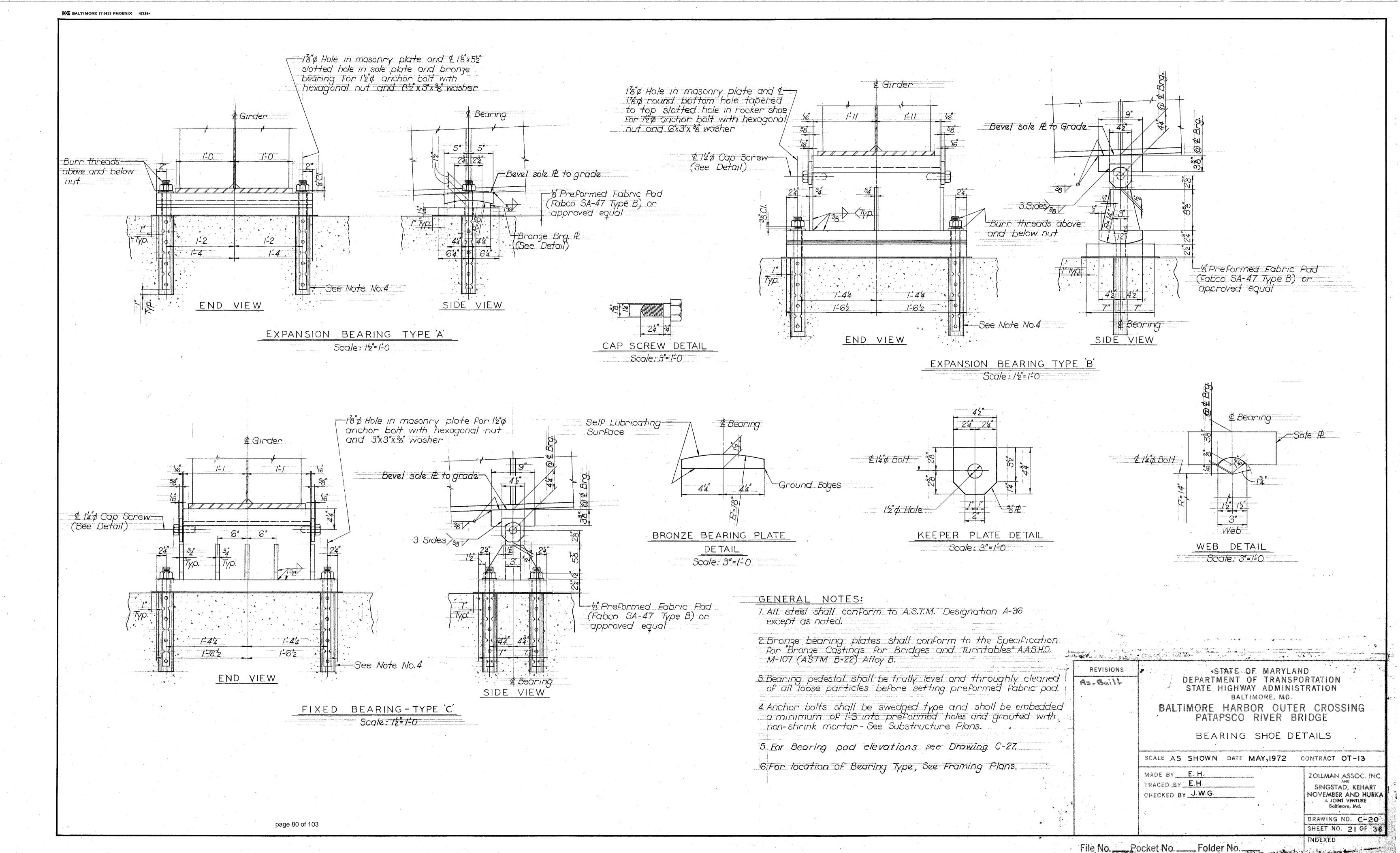


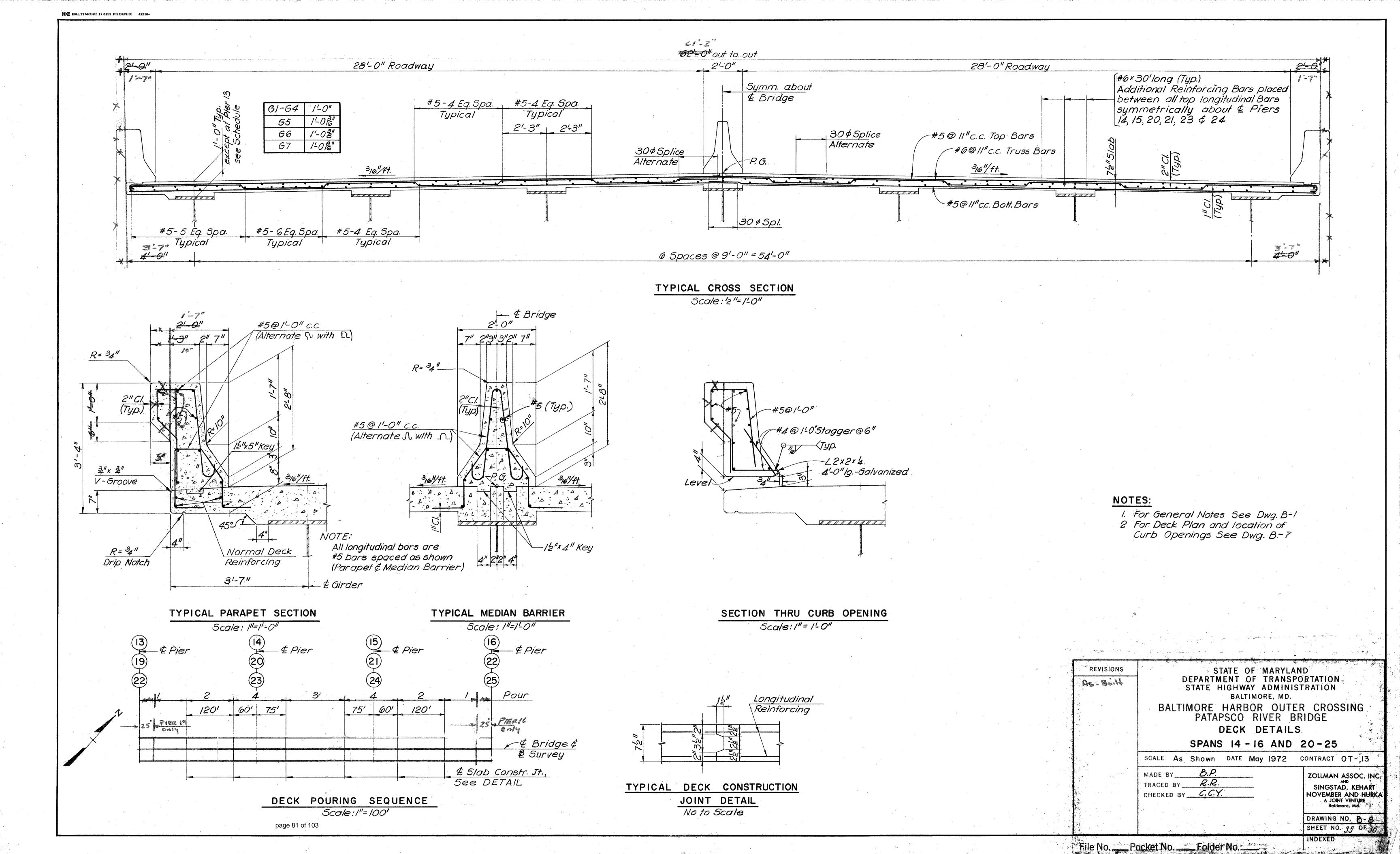
ZOLLMAN ASSOC. INC.
SINGSTAD, KEHART
NOVEMBER AND HURKA A JOINT VENTURE
Baltimore, Md.

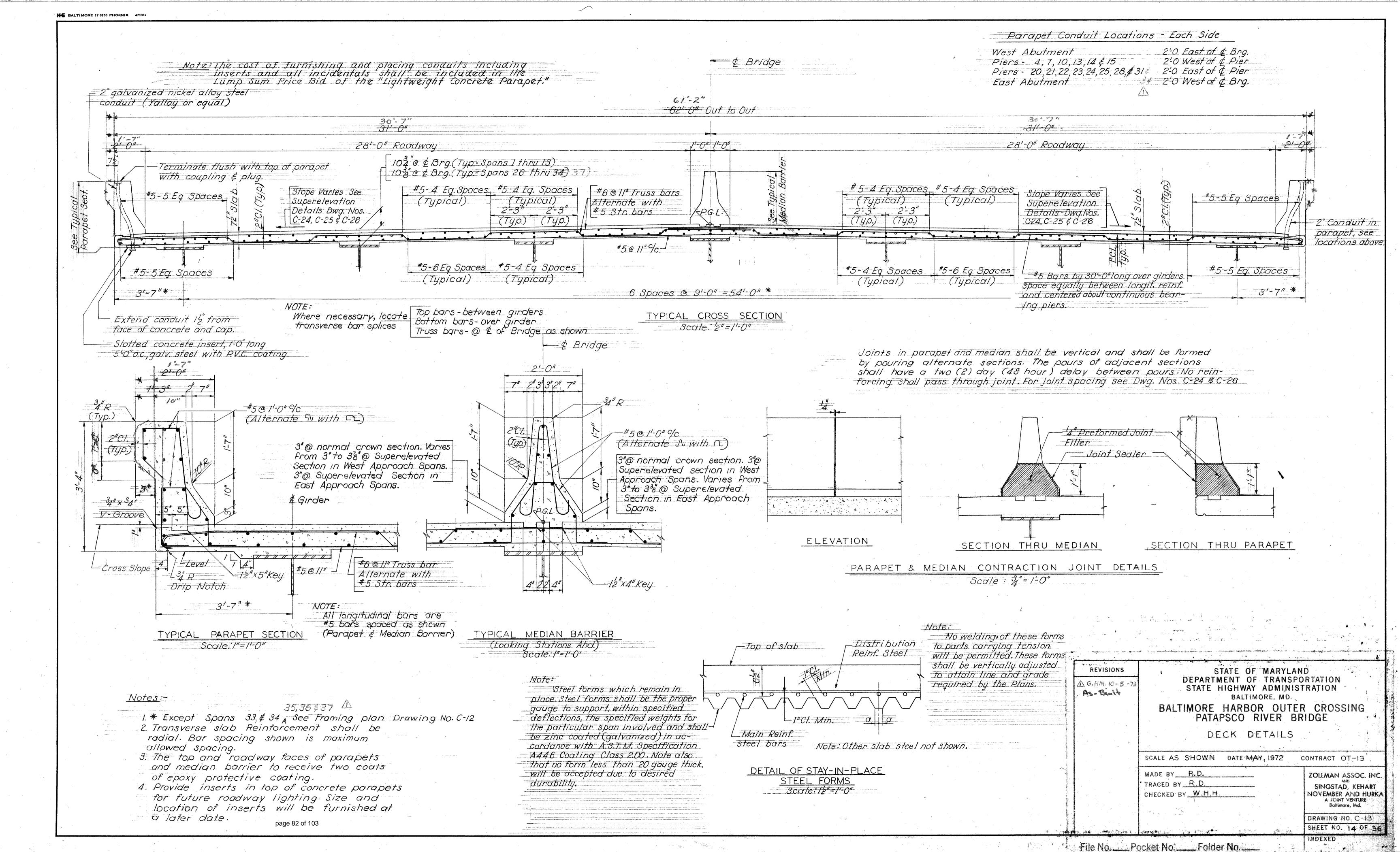
DRAWING NO. B-6

SHEET NO. 33 OF 36

JNDEXED









BIN: BCZ472001 Date: 03/29/2021

INSPECTION FINDINGS





BIN: BCZ472001 Date: 03/29/2021

MD 695 **OVER PATAPSCO RIVER**

5. Inspection Findings

- a. Load Rating Summary and Requirement
 b. Major Rehabilitation/ System Preservation Recommendation Summary
 c. Condition Rating Summary
- d. Element Data





BIN: BCZ472001 Date: 03/29/2021

MD 695 OVER PATAPSCO RIVER

2023 MAIN BIN BIENNIAL INSPECTION REPORT FOR

STRUCTURE No. BCZ472001

LOAD RATINGS SUMMARY

		RATING METHOD				
		LRFR LRFR				
Vehicle Type	Vehicle Weight (Tons)	Inventory	Operating			
HL-93	-	0.80	1.02			
H15 - Vehicle	15	17.0	24.0			
HS Vehicle	36	29.5	45.0			
Type 3S2 Modified Vehicle	40	28.0	54.0			
Type 4 Vehicle	35	27.5	43.5			
150 Kip Vehicle	75	58.0	84.0			

Load rating required:



BIN: BCZ472001 Date: 03/29/2021

MD 695 OVER PATAPSCO RIVER

Major Rehabilitation/System Preservation Recommendation Summary

Major Rehab/Sys. Preservation	candidate for e	valu	ation/Testing: NO	
If Yes, which component(s):	Deck (58):		Superstructure (59):	Substructure (60):





BIN: BCZ472001 Date: 03/29/2021

MD 695 OVER PATAPSCO RIVER

MARYLAND TRANSPORTATION AUTHORITY 2023 MAIN BIN BIENNIAL INSPECTION REPORT

Bridge No: BCZ472001 Bridge Name: BCZ427001 Date: Ma/r /29 2

Carries: MD 695 Crossing: PATAPSCO RIVE

Bridge Type: D-Steel Continuous County: 510-BALTIMORE CITY

No. of Spans: 0037 Year Built: 1976 City/Town: Baltimore City

Inspection Type: Bridge - Biennial Signature Main BIN

Inspection Crew:

ITEM 58	DECK
---------	------

MAIN B	MAIN BIN SI&A					
2023 2021						
6	6					





BIN: BCZ472001 Date: 03/29/2021

MD 695 OVER PATAPSCO RIVER

MARYLAND TRANSPORTATION AUTHORITY 2023 MAIN BIN BIENNIAL INSPECTION REPORT

Carries: MD 695 Crossing: PATAPSCO RIVE

Bridge Type: D-Steel Continuous County: 510-BALTIMORE CITY

No. of Spans: 0037 Year Built: 1976 City/Town: Baltimore City

Inspection Type: Bridge - Biennial Signature Main BIN

Inspection Crew:

ITEM 59 SUPERSTRUCTURE

MAIN E	MAIN BIN SI&A					
2023	2023 2021					
6	6					





BIN: BCZ472001

Date: 3/29/2021

MD 695 OVER PATAPSCO RIVER

MARYLAND TRANSPORTATION AUTHORITY 2023 MAIN BIN BIENNIAL INSPECTION REPORT

Carries: MD 695 Crossing: PATAPSCO RIVE

Bridge Type: D-Steel Continuous County: 510-BALTIMORE CITY

No. of Spans: 0037 Year Built: 1976 City/Town: Baltimore City

Inspection Type: Bridge - Biennial Signature Main BIN

Inspection Crew:

ITEM

60 SUBSTRUCTURE

MAIN BIN SI&A							
2023	2023 2021						
6	6						



BIN: BCZ472001 Date: 03/29/2021

MD 695 OVER PATAPSCO RIVER

MARYLAND TRANSPORTATION AUTHORITY 2023 MAIN BIN BIENNIAL INSPECTION REPORT

Bridge No: BCZ472001 Bridge Name: BCZ427001 Date: Ma/r /29 2

Carries: MD 695 Crossing: PATAPSCO RIVE

Bridge Type: D-Steel Continuous County: 510-BALTIMORE CITY

No. of Spans: 0037 Year Built: 1976 City/Town: Baltimore City

Inspection Type: Bridge - Biennial Signature Main BIN

Inspection Crew:

ITEM 61 CHANNEL

MAIN BIN SI&A						
2023	2023 2021					
7	7					

ITEM 62 CULVERTS

MAIN BIN SI&A					
2023	2021				
N	N				







BIN: BCZ472001

BRIDGE ELEMENT DATA

	Span: ALL									
Element Number	Element Description	Unit of Measure	Element Parent Number	Total Quantity	Condition State 1	Condition State 2	Condition State 3	Condition State 4		
12	Reinforced Concrete Deck (SF)	SF	-	553364	309365	234393	9606	0		
107	Steel Girder/Beam (LF)	LF	-	45039	35543	6621	3194	56		
515	Steel Protective Coating (SF)	SF	107	1105578	1034369	70322	886	1		
113	Steel Stringer (LF)	LF	-	24730	24518	212	0	0		
515	Steel Protective Coating (SF)	SF	113	137988	137799	170	19	0		
120	Steel Truss (LF)	LF	-	5280	4512	576	192	0		
515	Steel Protective Coating (SF)	SF	120	428608	416081	2239	10019	269		
8121	Steel Bottom Chord of Through Truss (LF)	LF	120	5280	4968	186	126	0		
8126	Steel Through Truss, Excluding Bottom Chord (LF)	LF	120	5280	4745	461	74	0		
148	Steel Cable- Secondary (EA)	EA	-	66	52	14	0	0		
515	Steel Protective Coating (SF)	SF	148	2926	2644	35	247	0		
152	Steel Floor Beam (LF)	LF	-	5644	4752	515	377	0		
515	Steel Protective Coating (SF)	SF	152	121850	119713	336	1801	0		
161	Steel Pin, Pin and Hanger Assembly, or Both (EA)	EA	-	132	116	14	2	0		
515	Steel Protective Coating (SF)	SF	161	290	256	15	19	0		
162	Steel Gusset Plate (EA)	EA	-	352	244	60	48	0		
515	Steel Protective Coating (SF)	SF	162	53342	53151	34	156	1		
205	Reinforced Concrete Column (EA)	EA	-	70	13	40	17	0		
210	Reinforced Concrete Pier Wall (LF)	LF	-	560	394	166	0	0		
215	Reinforced Concrete Abutment (LF)	LF	-	208	195	9	4	0		



BIN: BCZ472001 Date: 03/29/2021

Span: ALL Reinforced Pile LF Cap/Footing (LF) Reinforced Concrete LF Pier Cap (LF) **Compression Joint** LF Seal (LF) Assembly Joint LF without Seal (LF) Movable Bearing EΑ (roller, sliding, etc.) (EA) Steel Protective SF Coating (SF) Fixed Bearing (EA) EΑ Steel Protective SF Coating (SF) Metal Bridge Rail LF (LF) Steel Protective SF Coating (SF) Reinforced Concrete LF Bridge Rail (LF) Reinforced Concrete LF Median (LF) Reinforced Concrete LF **Abutment Backwall** (LF) Protected Slope (EA) EΑ Steel Dolphin (EA) EΑ Timber Fender (LF) LF LF Neoprene or Fiberglass Joint Trough (LF) Roadway Approach EΑ Transition (EA) **UWI Reinforced** EΑ Concrete Column (EA) **UWI Reinforced** LF Concrete Pier Wall (LF) **UWI Reinforced** LF Concrete Pile Cap/Footing (LF) **UWI Steel Dolphin** EΑ (EA) **UWI Timber Fender** LF (LF)





BIN: BCZ472001 Date: 03/29/2021

INSPECTION DOCUMENTS





BIN: BCZ472001 Date: 03/29/2021

MD 695 **OVER PATAPSCO RIVER**

6. Inspection Documents

- a. Hydrographic Survey (if applicable)
- b. Sounding Current Datac. Sounding Base-year Datad. Monitoring Data
- e. Test Results
- f. Miscellaneous Sketches
- g. Other





MARYLAND TRANSPORTATION AUTHORITY
BIN: BCZ472001 Date: 03/29 Date: 03/29/2021

INVENTORY



TOLL FACILITY STRUCTURE INVENTORY AND APPRAISAL REPORT BRIDGE NUMBER: BCZ472001 **IDENTIFICATION** FORM 1 OF 11 (8) STRUCTURE NUMBER 3 00000 BCZ472 01 Major Structure > Single 20' 0' Structure 300000BCZ472010 (8) FHWA NUMBER: (7) FACILITY CARRIED: MD 695 (6) FEATURE INTERSECTED: PATAPSCO RIVER (255) FEDERAL SUBMITTAL INDICATOR: Y (262) NAME OF STRUCTURE: BCZ427001 (27) YEAR BUILT: 1976 (106) YEAR RECONSTR: 0000 N (263) ADDITIONAL RECONSTRUCTION YEARS: N (1) STATE CODE: (2) DISTRICT CODE: 243 Baltimore, Harford, **Baltimore City Baltimore City** (4) PLACE CODE: (3) COUNTY CODE: 510 04000 (5) INVENTORY ROUTE: Route carried Interstate Mainline 00695 0 on" the structure Route prefix Level Of Service Number Direction (9) LOCATION: I-695 OVER PATAPSCO RIVER 0138100 (11) MILE POINT: (12) BASE HIGHWAY NETWORK: Inventory Route IS on Base Network (266) GIS ROUTE ID: B-000IS00695BU1NN (267) GIS MILEPOINT: 000042700 (268) SCENIC ROUTE: (13) LRS INVENTORY ROUTE, SUBROUTE NUMBER: (16) LATITUDE: 39123508 (B) 39133519 (A) (D) (C) 39133559 39123564 (17) LONGITUDE: 076322211 (B) 076305703 (A) 076305757 (C) 076322234 (D) (28) LANES ON: 04 LANES UNDER: 00 (42) TYPE OF SERVICE ON: TYPE OF SERVICE UNDER: Highway 5 Waterway (98) BORDER STATE: BORDER STATE's SHARE (%): (99) BORDER STATE NUMBER: page 96 of 103

CLASSIFICATI	ON								FORM 2 OF 11
CLASSIFICATI	ION								FORM 2 OF 11
(104) HWY SYSTEM:		Y	tructure/Ro	ute is on	NHS (10	3) TEMPO	RARY STR	RUCTURI	Ξ:
(105) FEDERAL LANDS	HWYS:	0	Not Applica	ble	(11)	0) NAT'L N	TWK:		Y Inventory route on National Truck Network
(26) FUNCTION CLASS:			Jrban Princi Other Freew Expressway		ial - (20)	TOLL:			1 Toll Bridge
(100) DEFENSE HWY:	1		efense high	way	(21) N	IAINTENA	NCE:	31	State Toll Authority
(101) PARALLEL STRUC	T:	N No	parallel stru	icture	(22) O	WNER:		31	State Toll Authority
(102) DIRECTION:	2	2 2-way	traffic		(37) H	ISTORICA	L:	5	Not eligible
TRAFFIC									FORM 3 OF 11
(19) DETOUR:	2:	5		(109) T	RUCK ADT	`%:	10		
(29) ADT:	030	767		(30) AD	T YEAR:		2019		
(114) FUTURE ADT:	032	863		(115) F	UTURE AD	T YEAR:	2041		
STRUCTURE T	YPE A	ND MA	TERI	AL					FORM 4 OF 11
(43) STRUCT TYPE:		D	Steel Con	tinuous	10	Truss - Th	ru		
(44) STRUCT TYPE-APP	R:	D	Steel Con	tinuous	02	Stringer/N	Iultibeam o	r Girder	
(232) BOX CULVERT ON	N PILES:								
(208) STRUCT TYPE- WIDENED/EXTENDED:		N			N			N	
(219) SLOPE PROTECTION	ON:	4	Heavy sto	one					
(228) FOOTING-ABUTM	ENT:	1	Concrete		2	Steel H Pi	le	0	Entire Structure
(229) SUBSTRUCT ABUT	ΓMENT:	1	Concrete		1	Pedestal		0	Entire Structure
(230) FOOTING-PIER:		1	Concrete		Timber Pile	Timber Pi	le	0	Entire Structure
(231) SUBSTRUCTURE F	PIER:	1	Concrete		5	Non-defin	able	0	Predominant Feature
(242) BEARING TYPE:		В	Steel plate	es	С	Steel curv	ed plates	D	Steel rollers
(108) WEARING SURFAC	CE:	1	Concrete		8	Unknown		8	Unknown
(243) JOINT TYPE:		В	Preformed	l Seal	С	Sliding Pl	ate Joint	D	Finger Joint
(206) SUPPL TYPE-MAIN	J:				(207) SUPI	PL APPRO	ACH:		No Scour Protection
(257) SCOUR PROTECTI	ON:		No Scour Protection		(270) CON	IC. DECK S	SPECIAL T	YPE:	Not Applicable
(221) STRUCTURAL STE	EEL:	05	A 588		(233) DEC	K - COMP	NON-CON	Л Р:	0 Non- Composite
(107) DECK STRUCTURI	E TYPE:	1	Concrete (Cast-in-	(259) STA	Y-IN-PLA	CE FORMS	S: Y	Yes
(235) PARAPET:		01	Jersey/F-	Shape					
(236) RAILING:	2	Concrete		9	Other	3	Ste	el	9 Other
(237) FENCING:		0	None		0	- None	e		page 97 of 103

(278) PAINT SYSTEM:	99 Other		99	Other					
(344) PAINT COLOR/NUMBER:	10 Light 0	Grey		J					
(345) YEARS PAINTED:	1976	N							
GEOMETRICS							FORM	1 5 OF 11	
(112) NBIS BRIDGE LENGTH:	Y			(49) STRUCTU	I:	0090910			
(210) NUMBER OF SPANS:	0037			(45) # SPANS I	N MAIN UN	IT:	003		
(46) # APPROACH SPANS:	0034			(209) # CONTI	NUOUS SPA	NS:	Y	7	
(48) LENGTH MAX SPAN:	1200			(238) # STRING	GER-ORIGIN	IAL:	0	7	
(240) SPACING-ORIGINAL:	8			(239) # STRING	GERS-WIDE	NED:	0	0	
(241) SPACING-WIDENED:	0			(33) BRIDGE M	MEDIAN:		3	3	
(50) CURB/SIDEWALK WIDTHS:	000	000		(205) MEDIAN	WIDTH:		00)3	
(51) DECK CURB-CURB WIDTHS:	0560		(32) A	PPROACH ROA	D WIDTH:	02	52	02	
(52) DECK OUT-OUT WIDTH:	0612		(10) I	NVENT ROUTE	CLEAR	: 1506			
(53) BRIDGE ROADWAY, MIN VER	TCLEAR:	1506	(47)	INVEN ROUTE	E, TOTAL HO	ORIZ CL	EAR: 28	30	
(54) MIN VERTICAL UNDERCLEAR	ANCE:	Н	Highway structure	beneath	1506				
(55) MIN LATERAL UNDERCLEAR.	ANCE (RIGHT):	Н	_	ot a highway or	000				
(56) MIN LATERAL UNDERCLEAR	ANCE (LEFT):	000	(342) HORIZ CLEAI	RANCE (ON): 0	2800	02800	
(34) SKEW, IN DEGREES:		00	(280) HORIZ CLEARANCE (UNDER):						
(35) STRUCTURE FLARED:		N	(253) NUMBER OF	CELLS:		N		
(256) SPAN OF CELLS:		N	(254) RISE:		N			
			(258) EARTHFILL:			N		
			(343) CENTERLINE	E LENGTH (C	Culverts/I	Pipes):	N	
(223) SHOULDER WIDTHS:	0200 02	200							
(264) TYPE AND SPAN: TST	Γ 722, 1200, 722				<u></u>				

(41) STATUS: (31) DESIGN LOAD: (398) PEDESTRIAN LOADING: (399) RAILROAD LOADING: (70) POSTING:	5 N N 5	Open HS 20 Equal to or	(224) V	VEIGHT POSTED, KIPS:	N
(398) PEDESTRIAN LOADING: (399) RAILROAD LOADING:	N N 5	Equal to or			
(399) RAILROAD LOADING:	N 5				
	5				
(70) POSTING:					
		above legal loads	(40	0) DATE OF RATING:	06 2017
(65) METHOD USED TO DETERMINE IN	IVENTORY	RATING:	3 Load a	and resistance factor rating (LR	FR)
(63) METHOD USED TO DETERMINE OF	PERATING 1	RATING:	3 Load a	and Resistance Factor Rating (I	LRFR)
		INVENT	ORY RATING	OPERATING RATING	i
HL-93 VEHICLE		(4	402)080	(401)102	
H-15 VEHICLE		(4	404)170	(403)240	
T4 REDUCED LIFT AXLE VEHICLE		(4	408)275	(407)435	
HS VEHICLE		(4	410)295	(428)450	
3S2 VEHICLE		(4	412)280	(411)540	
150K VEHICLE		(4	414)580	(413)840	
90K PERMIT COMBINATION VEHICLE		(4	416)370	(415)585	
90K MOBILE CRANE VEHICLE		(4	418)335	(417)495	
90K CARGO VEHICLE		(4	420)365	(419)510	
80K CARGO VEHICLE		(4	422)345	(421)540	
120K VEHICLE		(4	424)460	(423)675	
108K MOBILE CRANE VEHICLE		(4	426)360	(425)520	
120K MOBILE CRANE VEHICLE		(4	428)390	(427)580	
(225) SPEED LIMIT ON STRUCTURE:			55		
(226) MIN VERT CLEARANCE OVER RC	OADWAY PO	OSTED:	X	Posting signs not required	
(227) MIN VERT UNDERCLEARANCE PO		Y	Yes, all signs in place		
LOAD RATER					
LOAD RATING PROGRAM					
RATING CONDITION (AS-BUILT OR AS	INSPECTE	D)			
		,			

CONDITION INSPECTION

FORM 7 OF 11

	INSPEC	TION MONTH	(91) FREQ	UENCY	(90) INSPECTION DATE	(290) INSPECTION REPORT COMPLETION DATE
ROUTINE INSPECTION		5 24				
CRITICAL FEATURE INSPEC	TIONS	(291) INSPECTIO	N MONTH	(92)	FREQUENCY	(93) CRITICAL FEATURE INSPECTION DATE
(A) FRACTURE CRITICAL M	EMBERS	06			Y24	05/31/2023
(B) UNDERWATER INSPECT	ION	02			Y48	03/29/2021
(C) SPECIAL INSPECTION					N	
(D) HANDS-ON RAILROAD					N	
(E) CONFINED SPACE					N	
(F) ULTRASONIC TESTING (UT) PIN	02			Y96	03/06/2023
(G) ULTRASONIC TESTING (ANCHOR	(UT)				N	
(H) POST TENSIONING BAR					N	
(I) CATHODIC PROTECTION					N	11/13/2013
(J) CONSULTANT		11			N	
(K) MOVABLE BRIDGE					N	
(L) SUSPENSION BRIDGE					N	
(M) CABLE					N	
(N) MONITOR					N	
(P) FLOOD						
(Q) DAMAGES						
(R) INQUIRES						
(58) DECK: 6 Sati	sfactory co	ondition	(59) SUI	PERSTUCT	TURE: 6 Sat	isfactory condition
(60) SUBSTRUCTURE:	5 Satis	sfactory condition	(61) CH	ANNEL:	7 Bank pro	tection in need of minor repairs
(62) CULVERT: N No	 t applicabl	e				

(310) INSPECTION DATA UPD.	ATE DATE:						
(311 a) INSPECTION TEAM - CONSULTANT INSPECTION:	Y (311 b) INSPECTION TEAM - TEAM/CONSULTANT: WBCM						
(312) LEAD INSPECTOR:	John Paul Devereaux, PE						
(313) BRIDGE INSPECTOR:	Nicholas R. Ward, PE						
(314) HOURS TO INSPECT:	900 (316) DECK PLANKING %: 00 (315) DECK PUNCTURES %: 00						
(317) DECK PATCHING %:	05 (318) BLOCKING: 00 (319) POWER WASHING: N						
(320) IDENTIFICATION NO.:	N (321) INVENTORY DIRECTION: NOR TH (323) PERMIT: Y						
(324) NIGHT WORK:	N (325) WEEKEND WORK: N						
(322) LOOKING TOWARD:	DUNDALK						
(326) MAINTENANCE OF TRA	FFIC STANDARDS:						
(327) MOT COMMENTS:							
(328) LOCATION OF MIN. VER UNDERCLEARANCE:	T. Span 35, Underside of Girder 7						
(329A) CRITICAL FINDINGS:	N (329B) CRITICAL FINDINGS DATE:						
(330) CRITICAL FINDINGS CO	MMENTS:						
(331) CAUTION COMMENTS:							
(332) UNDERCLEARANCE POS SIGNS:	TING X Posting signs not required						
(340) INSPECTION EQUIPMEN	Γ:						
B Boat	T Bucket Truck						
D Diver	S Snooper						
(333) MHOI:	(334) MHOI LOCATIONS:						
(335) ADVANCED NOTIFICATION: Y							
(336) ADVANCED NOTIFICATI	ON COMMENTS:						
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APPRAISAL					FORM 8 OF	11	
(67) STRUCTURAL EVALUATION:		5		(68) DECK GEOMETRY:	4		
(69) UNDERCLEARANCE:		N		(72) APPROACH ALIGNMI	ENT: 8	_	
(71) WATERWAY ADEQUACY:		9					
(36) TRAFFIC SAFETY RAILINGS: FEATURES		1	Meets Standards				
TRANSTIONS:		1	Meets Standards				
APPROACH BARRIER:		1	Meets Standards				
APPROACH BARRIER ENDS:		1	Meets Standards				
(113) SCOUR EVALUATION:		8L	Bridge foundations determined to be stable for the				
'			assessed or calculated scour condition.				
(DT) DEDUCT CODE:							
(STAT) STATUS:							
NAVIGATION					FORM 9 OF	11	
(38) NAVIGATION CONTR	ROL:		1	(39) NAV VERT CLEARANCE:	185		
(40) NAV HORIZONTAL C	LEARANCE:		1100				
(111) PIER/ABUTMENT PROTECTION:			2				
(116) MIN NAV VERT CLEARANCE, VERT LIF BRIDGE:		Γ					
(247) DESIGN YEAR STORM:			100	(248) RUN-OFF Q:	000000		
(249) DRAINAGE AREA:			000000	(250) STRUCTURE IN TIDAL AREA:	1		
(251) HIGH WATER ELEVA	ATION:		0000				
(252) YEAR HIGH WATER ELEVATION-LATEST:							

HISTORY AND PROP	OSED IMPR	OVEM	ENTS	FORM 10	OF 11
(201) CONTRACT NUMBERS:	OT12				
(203) SHA SPEC-YEAR: 196800000000000					
(204) AASHTO SPEC-YEAR: 196900		0000			
(75) TYPE OF WORK:					
(94) BRIDGE IMPROVE COST:			(76) LENGTH OF IMPROVEMENT	·:	
(96) TOTAL PROJECT COST:			(95) ROADWAY IMPROVE COST:		
			(97) YEAR OF IMPROVEMENT:		
MISCELLANEOUS				FORM 11	OF 11
(244) SIGNS ON STRUCTURE:	Y	Yes	(245) BRIDGE ROADWAY LIGHTING:	Y	Yes
(246) ROADWAY LIGHTING:	Y	Yes			
(260) UTILITIES - ON:			(261) UTILITIES - UNDER:		
E Electric			0 None		
X Others			0 None		
0 None			0 None		
0 None			0 None		
0 None			0 None		
REMARKS:					
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