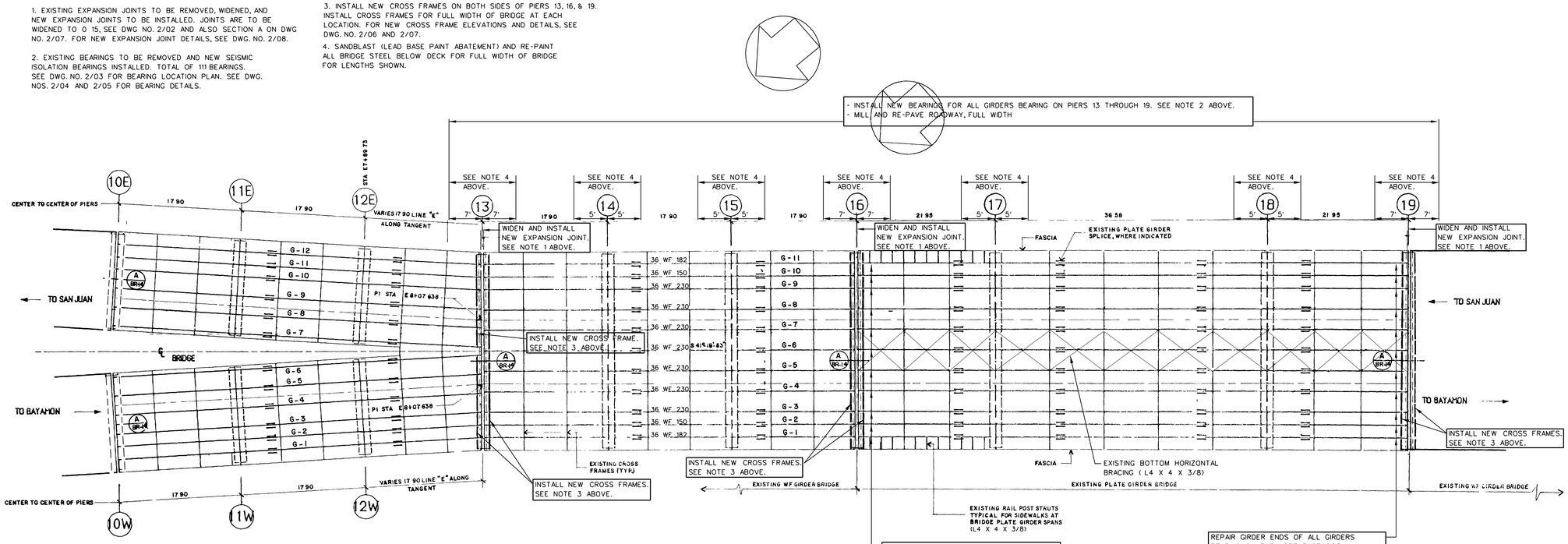
REPAIR LOCATION PLAN NOTES

1. EXISTING EXPANSION JOINTS TO BE REMOVED, WIDENED, AND NEW EXPANSION JOINTS TO BE INSTALLED. JOINTS ARE TO BE WIDENED TO 0 15, SEE DWG NO. 2/02 AND ALSO SECTION A ON DWG NO. 2/07. FOR NEW EXPANSION JOINT DETAILS, SEE DWG. NO. 2/08.

2. EXISTING BEARINGS TO BE REMOVED AND NEW SEISMIC ISOLATION BEARINGS INSTALLED. TOTAL OF 111 BEARINGS. SEE DWG. NO. 2/03 FOR BEARING LOCATION PLAN. SEE DWG. NOS. 2/04 AND 2/05 FOR BEARING DETAILS.

3. INSTALL NEW CROSS FRAMES ON BOTH SIDES OF PIERS 13, 16, & 19. INSTALL CROSS FRAMES FOR FULL WIDTH OF BRIDGE AT EACH LOCATION. FOR NEW CROSS FRAME ELEVATIONS AND DETAILS, SEE DWG. NO. 2/06 AND 2/07.

4. SANDBLAST (LEAD BASE PAINT ABATEMENT) AND RE-PAINT ALL BRIDGE STEEL BELOW DECK FOR FULL WIDTH OF BRIDGE FOR LENGTHS SHOWN.



NOTE: GUANO (BIRD DROPPINGS) MAY EXIST IN WORK AREA AND SHOULD BE CONSIDERED HAZARDOUS. (HISTOPLASMOSIS)

REPAIR LOCATION PLAN

NOT TO SCALE

NOTE: MEASUREMENTS ON THIS PLAN ARE METRIC.

CONSTRUCTION SEQUENCE:

WORK SHALL BE PERFORMED ONE PIER AT A TIME IN THE FOLLOWING ORDER: PIER NOS. 16, 13, 19, 18, 17, 15, 14.

GENERAL NOTES:

1. PRIOR TO BEGINNING WORK ON A PIER, WORK AREA SHALL BE CLEARED OF GUANO AND LEAD-BASED PAINT SHALL BE REMOVED FOR EXTENTS OF WORK FOR ENTIRE PIER.
2. CONTRACTOR SHALL COORDINATE SEQUENCE OF WORK WITH THE CONTRACTOR'S STRUCTURAL ENGINEER. SEQUENCE OF WORK SHALL BE SUBMITTED TO THE GOVERNMENT FOR INFORMATION ONLY WITH THE BRACING, JACKING AND TEMPORARY SUPPORT SUBMITTAL.
3. CONTRACTOR SHALL COMPLETE ALL WORK AT A PIER INCLUDING PAINTING OF STEEL, PRIOR TO BEGINNING WORK ON THE NEXT PIER.

BRACING, JACKING AND TEMPORARY SUPPORT NOTE:

1. CONTRACTOR SHALL PERFORM BRACING, JACKING AND PROVIDE TEMPORARY SUPPORT TO THE GIRDERS IN ORDER TO ADEQUATELY SUPPORT THE DEAD LOAD AND LIVE LOAD OF THE BRIDGE DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL HAVE A STRUCTURAL ENGINEER PERFORM THE BRACING, JACKING AND TEMPORARY SUPPORT, DESIGN. THE STRUCTURAL ENGINEER SHALL BE A PROFESSIONAL ENGINEER LICENSED IN PUERTO RICO OR THE U.S.
3. DESIGN OF BRACING, JACKING AND TEMPORARY SUPPORT SHALL BE IN ACCORDANCE WITH AASHTO AND PRHTA HIGHWAY DESIGN MANUAL. ALL APPLICABLE LOAD CASES SHALL BE INVESTIGATED INCLUDING VERTICAL, LATERAL, CONSTRUCTION LOADING, AND IMPACT EFFECTS.
4. DESIGN SHALL INCLUDE LATERAL BRACING OF GIRDER BOTTOM FLANGES AT THE POINT OF SUPPORT. DESIGN SHALL ADDRESS THE TEMPORARY BRACING REQUIRED WHEN BRIDGE CROSSFRAMES ARE TEMOPARILY DISCONNECTED.
5. DESIGN SHALL INSURE THAT BRIDGE MEMBERS AND ATTACHED UTILITIES ARE NOT OVERSTRESSED DURING JACKING.
6. MAXIMUM VERTICAL DEAD AND LIVE LOADS FOR ISOLATOR BEARING ARE GIVEN IN SPEC 3260, TABLE 1.
7. DESIGN OF BRACING, JACKING AND TEMPORARY SUPPORT SHALL BE SEALED AND SIGNED BY THE DESIGNER. DESIGN OF TEMPORARY SUPPORT SHALL BE SUBMITTED TO THE GOVERNMENT, FOR INFORMATION ONLY, 30 DAYS PRIOR TO BEGINNING JACKING OPERATION. SUBMITTAL SHALL INCLUDE DESIGN/ANALYSIS, SHOP DRAWINGS, JACKING SEQUENCE, ANDJACKING PROCEDURES.

STEEL PAINTING NOTES:

1. PAINT ON EXISTING STRUCTURE CONTAINS LEAD. REMOVAL OF PAINT SHALL BE DONE IN ACCORDANCE WITH EM 385-1-1, "SAFETY AND HEALTH REQUIREMENTS MANUAL" AND ALSO IN ACCORDANCE WITH SPECIFICATION 01355, "ENVIRONMENTAL PROTECTION". A SHELTER WILL BE REQUIRED.
2. STEEL SHALL HAVE PAINT REMOVED BY SANDBLASTING AND SHALL BE REPAINTED IN ACCORDANCE WITH SPECIFICATION 09965, "PAINTING". BRIDGE STEEL INCLUDES GIRDERS, CROSSFRAMES, HORIZONTAL BRACING, BEARINGS, AND EXPOSED EXPANSION JOINT STEEL.
3. UTILITIES IN THE AREA OF SANDBLASTING SHALL BE PROTECTED FROM SANDBLASTING.

MILLING AND PAVING NOTES:

1. LOCATION OF ROADWAY TO BE MILLED AND PAVED: FULL WIDTH OF ROADWAY BEGINNING 7 FOOT NORTHEAST OF THE CENTERLINE OF PIER 13 AND ENDING 7 FOOT SOUTHWEST OF THE CENTERLINE OF PIER 19.
2. EXISTING ASPHALTIC WEARING SURFACE SHALL BE MILLED DOWN 2 INCHES TO EXPOSE CONCRETE DECK SURFACE.
3. NEW PAVING SHALL CONSIST OF: A PRIME COAT, A TACK COAT, A 2" SURFACE COURSE OF HOT PLANT-MIX BITUMINOUS PAVEMENT.
4. MILLING AND PAVING SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02740, "HOT MIX ASPHALT PAVING".
5. CONTRACTOR SHALL RECORD STRIPING PLAN OF ROADWAY BEFORE MILLING. CONTRACTOR SHALL RE-STRIPE ROADWAY TO MATCH ORIGINAL STRIPING AFTER PAVING IS COMPLETE.

FOR INFORMATION ONLY DRAWINGS:

1. THE BRIDGE STRUCTURE HAS BEEN MODIFIED SEVERAL TIMES SINCE ORIGINALLY BUILT. CONTRACTOR SHALL VERIFY ANY INFORMATION TAKEN FROM "FOR INFORMATION ONLY" DRAWINGS TO INSURE IT REFLECTS CURRENT CONDITION.

2. M.O.T. PLANS SHOWN IN DWGS 3/01 THROUGH 3/04 ARE SHOWN FOR INFORMATION ONLY. THESE PLANS MAY OR MAY NOT MEET CURRENT REQUIREMENTS OF PRHTA. THE CONTRACTOR SHALL PREPARE AN M.O.T. PLAN ACCORDING TO SPEC 01550 AND SHALL SUBMIT PLAN FOR APPROVAL.

3. DRAWING 3/20, "JACKING UP OF BRIDGE BEAM", IS PROVIDED FOR INFORMATION ONLY. THE JACKING AND TEMPORARY SUPPORT SHOWN MAY OR MAY NOT BE ADEQUATE FOR THE REQUIREMENTS OF THIS CONTRACT. PLEASE ALSO NOTE THAT IT IS NOT POSSIBLE TO SUPPORT THE GIRDERS FROM THE TOPS OF PIERS AT MANY LOCATIONS DUE TO SPACE CONSTRAINTS. THE CONTRACTOR SHALL PROVIDE DESIGN ACCORDING TO "JACKING AND TEMPORARY SUPPORT NOTE".

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
1	A	H-1	REVISED TO ACCOMPANY AMENDMENT NO 0003	

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Inv. No. DACW17-02-B-0002
Scale: NOT TO SCALE
Dated: JULY 2001
D.O.FILE NO. 111-38,213

File name: KAB0201.DGN
Reference files: KBDR.DGN KAB0202R.DGN

RIO PUERTO NUEVO PROJECT
SAN JUAN, PUERTO RICO
CONTRACT 1A
SEISMIC RETROFIT OF CONSTITUTION BRIDGE
REPAIR LOCATION PLAN

DRAWING NO.
2/01
A