

50-329  
50-330

PRINCIPAL STAFF			
✓ A	✓	✓ PRP	✓ 130
D/RA		DE	
A/RA		DRMSP	
RC		DRMA	
PAO		SCS	
GA		ML	
NF		File	

DOCUMENTATION TRANSMITTAL

To: Stone & Webster - CIO  
PO Box 1963  
Midland, MI 48640

Transmittal No: CIO- 0046  
Date: May 18, 1984

Attention: David Beauchamp

The documentation listed below \_\_\_ is provided herewith, X was previously provided on 5-15-84 ; as requested by David Beauchamp .

Documentation Description: Nonconformance Reports - C-002241-V & C-02243-V

CIO \_\_\_ has X has not been placed on routine transmittal for the described documentation.

*Janne Kinne*  
Signature

8405300361 840518  
PDR ADUCK 05000329  
S PDR

- CC RJCook, NRC Site (w/a, unless voluminous)
- JJHarrison, NRC Region III (w/a, unless voluminous)
- DDJohnson, SMO (w/o)
- JGKepler, NRC Region III (w/a, unless voluminous)
- BHPeck, SMO (w/o)
- NIReichel, SMO (w/o)
- RAWells, MPQAD (w/o)
- CMThompson - File 24.2 (w/a, unless voluminous)

MAY 24 1984

IEO1  
11

# ORIGINAL

## NONCONFORMANCE REPORT

16 NCR NO. C-02243-V  
17 DATE ISSUED 4-2-84  
18 REV 0  
19 PAGE 1 OF 8  
*TAB 19 OF 8 4/2/84*  
*OPR 5/1/84*

1 ITEM LOCATION  
SERVICE WATER PUMP STRUCTURE WALLS

2 ITEM DRAWING/PART NO. C-94-(Q)      3 ITEM PART NAME SWI (609) C'      4 ITEM SERIAL NO. N/A

5 ITEM DESCRIPTION SOUTH (PARTIAL) CENTRAL (PARTIAL WALLS TO EL 609' & WEST HALF SERVICE GATE WALL TO EL 603'6"

6 ITEM STARTUP SYSTEM NO. 800E, F&G      7 REFERENCE DOCUMENT PQC 17220 / C 140 R/W (ACTIVITY NOS. 2.3 & 3.2 SPEC-23)      8 ASME A.N.I. REQUIRED  YES  NO

9 INSPECTION RECORD NO. V-C-140-10      LOG NO. V58      REV NO. R1      10 RESPONSIBLE ORGANIZATION CONSTRUCTION

11 NONCONFORMANCE DISCOVERED DURING:  
 POST INSPECT     TURNOVER     POST TURNOVER     DESIGN     RECEIVING     CONST     RELEASE FOR INSPECT  
 PRE-OP TEST     FINAL TURNOVER     OVERINSPECT

12 REQUIREMENT  
 ① SPEC C-231 STATE IN PART "NON SHRINK GROUT PLACEMENTS SHALL BE SOUND AND FREE FROM BOND SEPARATION SPALLING AND HOLLOW SOUNDING AREAS."  
 ② SPEC C-231 STATE IN PART "IMPERFECTIONS IN FORMED CONCRETE SHALL BE REPAIRED AS SOON AS POSSIBLE PRACTICAL AFTER REMOVAL OF FORMS."  
*EW 3/31/84*

13 NONCONFORMANCE  
 ① HOLLOW SOUNDING GROUT PATCHES AND TIE ROD PATCHES.  
 ② SURFACE IMPERFECTIONS, SPALLED CONCRETE, ROCK POCKETS, HOLES AND CRACKS.

NOTE: FOR LOCATIONS AND ADDITIONAL INFORMATION SEE ATTACHED SHEETS

14 NCR ORIGINATED BY (PERSON) Edward Wertanen 4/2/84  
 EDWARD WERTANEN DATE  
 15 NCR ORIGINATED BY (DISCIPLINE) QCD / CIVIL

20 NUMBER OF HOLD TAGS (IF APPLIED) 8      21 LOCATION OF HOLD TAGS SEE BLOCK 13 / AT VARIOUS LOCATIONS ON WALL

22 POTENTIAL 50.55(e)  YES  NO      24 ACTION ITEM NO. S06037      26 ITEM PRIORITY CODE NO. 3      28 NCR REVIEWED BY: *K. J. [Signature]*

23 REPORTED TO MPQA MANAGER DATE N/A      25 DISCIPLINE: C      27 TREND CODE CC-4 0011      DATE: 4-2-84

2/19 5/1/84

29 CAUSE ① IMPROPER METHODS USED IN PLACEMENT OF CONCRETE AND/OR PERFORMING REPAIRS.

② FAILURE TO IMPLEMENT REPAIRS AS SOON AS PRACTICAL AFTER REMOVAL OF FORMS.

30 PROCESS CORRECTIVE ACTION

YES  NO QAR NO. \_\_\_\_\_

31 RECOMMENDED DISPOSITION ~~100, 11B~~

REMORK  SCRAP/REJECT  REPAIR  USE AS IS ~~100, 11B~~

32 CONDITIONAL RELEASE

YES  NO

100, 11A, 12, 13A, 14A ~~100, 11B~~ 5/1/84

100, 106, 106, 106, 11C, 13B

31A ADDITIONAL INFORMATION

SEE ATTACHED PAGES 9 THRU 14.

33 DISTRIBUTION FOR ACTION

TEAM 29

JTD 4/19/84  
DR Wolf 4/20/84

34 DISPOSITION CONCURRENCE

[Signature] 5/4/84 [Signature] 5-4-84  
PROJECT FIELD ENGINEER DATE NPQAD CONCURRENCE DATE

PFQCE (ASME) DATE

POAE (ASME) DATE

[Signature] 12/8/84  
LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE

A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN

36 METHOD OF DISPOSITION ACTION VERIFICATION

RESULT OF DISPOSITION ACTION VERIFICATION

ACCEPTABLE  UNACCEPTABLE

IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER \_\_\_\_\_

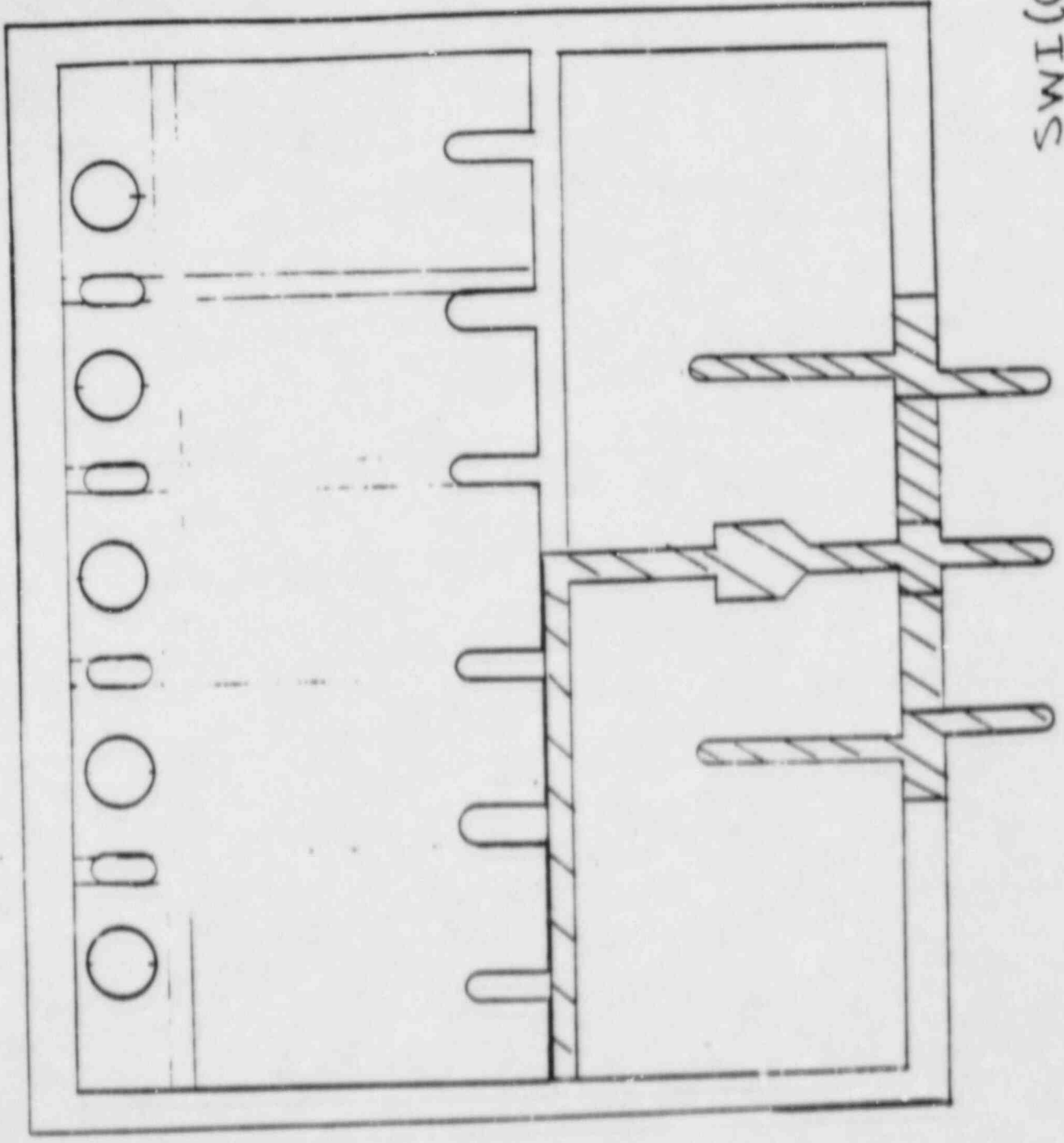
37 NCR CLOSED BY

\_\_\_\_\_  
NPQAD DATE

\_\_\_\_\_  
A.N.I. (ASME) DATE

**ORIGINAL**

4-2-84

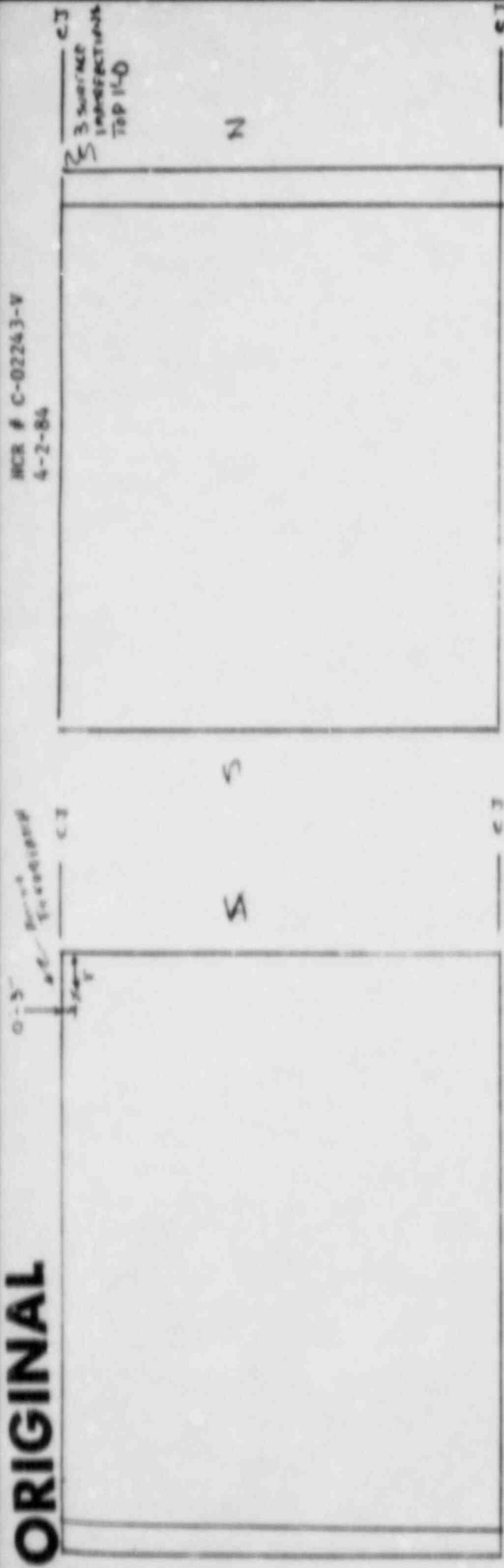


SWI(609)C  
10/10/84



**ORIGINAL**

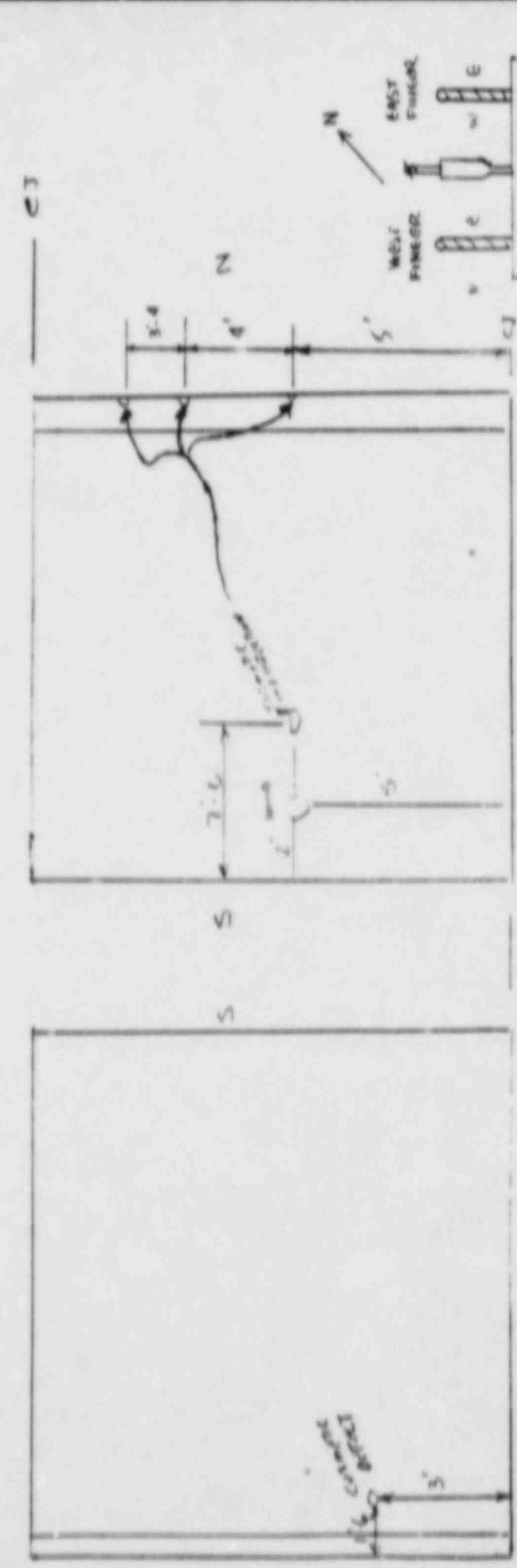
MCR # C-02243-V  
4-2-84



**WEST FINGER ELEVATIONS**

WEST FACE

EAST FACE



WEST FACE

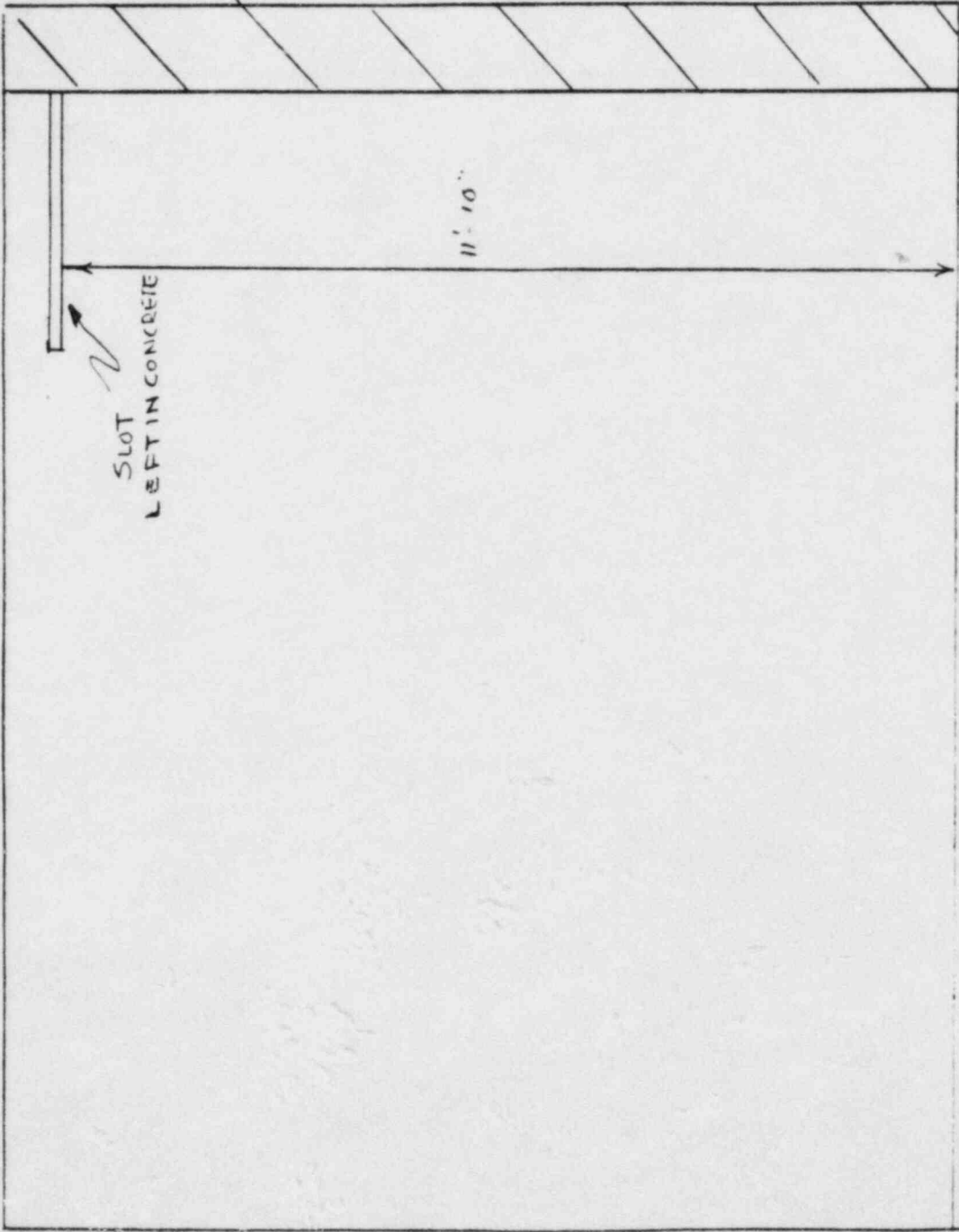
EAST FACE

**EAST FINGER ELEVATIONS**

NCR # C-02243-V  
4-2-84

**ORIGINAL**

603'-6" CJ



WEST

EAST

SWI (609) C'  
PARTIAL

SOUTH ELEVATION SLUICE GATE WALL

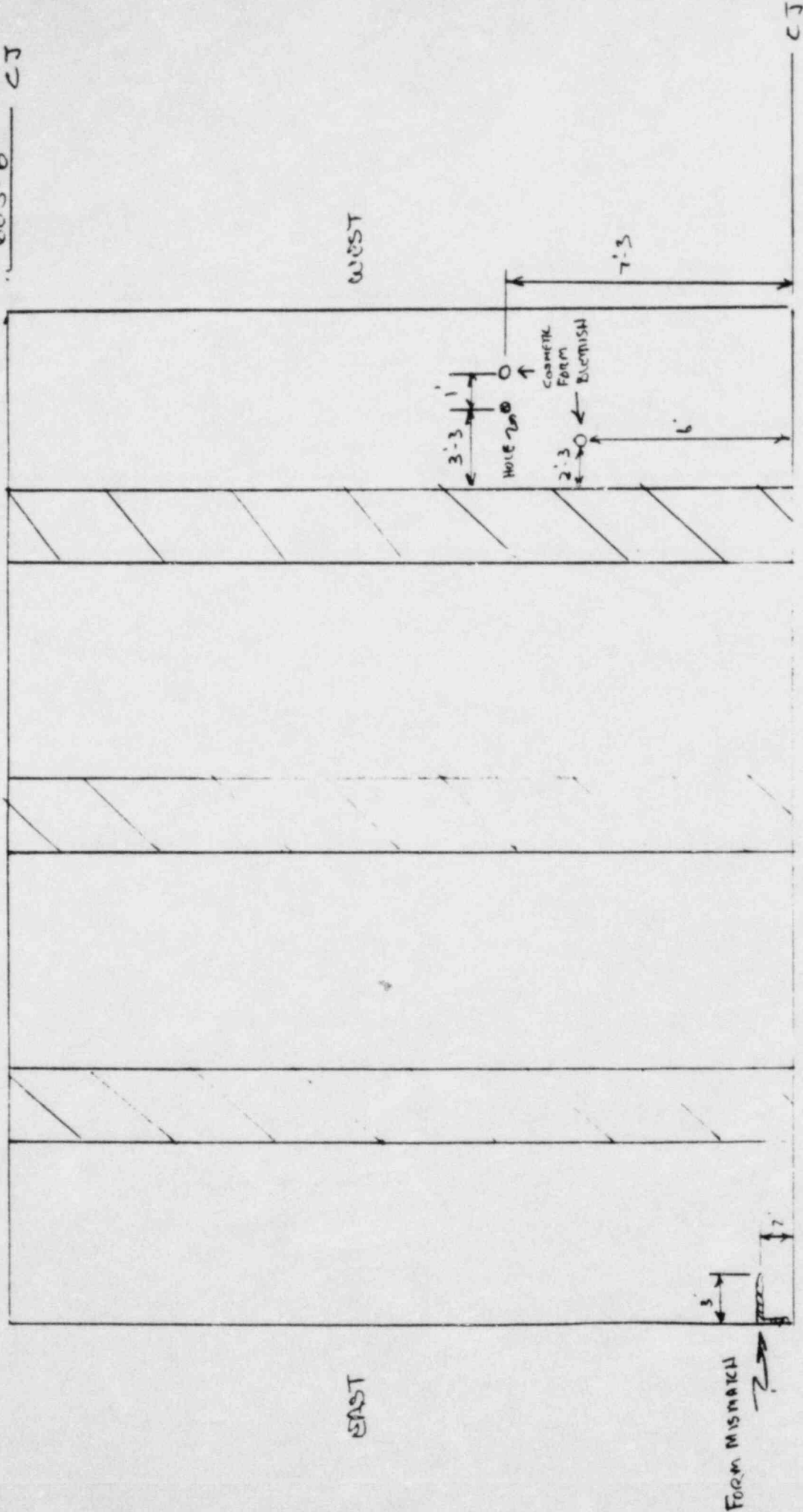
Page 6 Of 8  
10/11/84  
11/11/84

5



**ORIGINAL**

603'-6" CJ

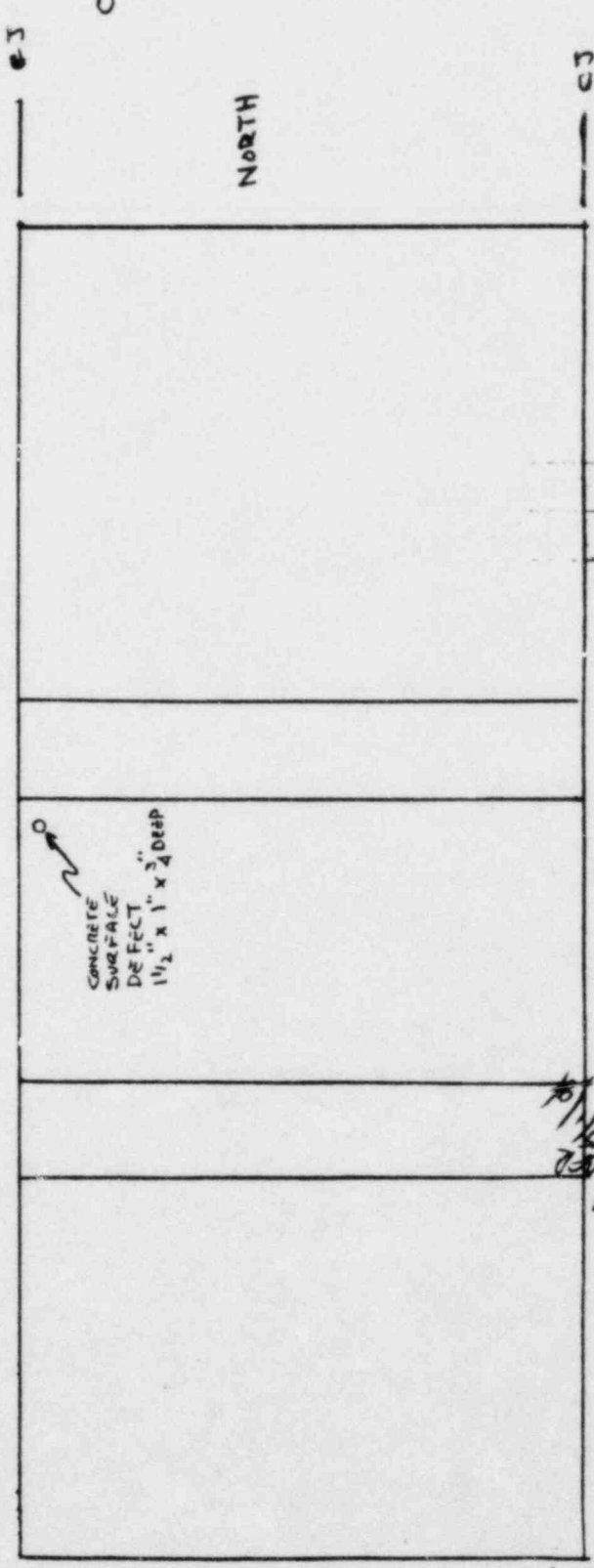
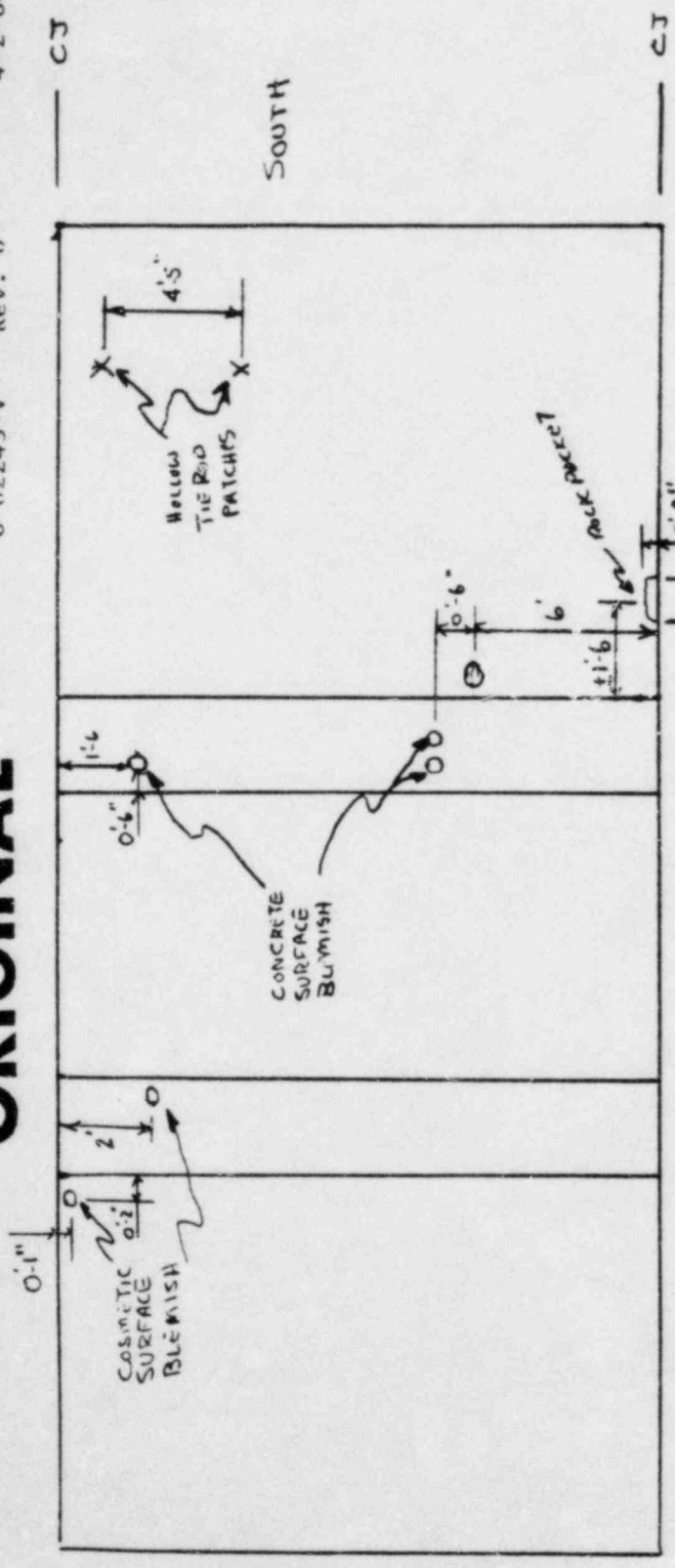


SWL (609) c'  
PARTIAL

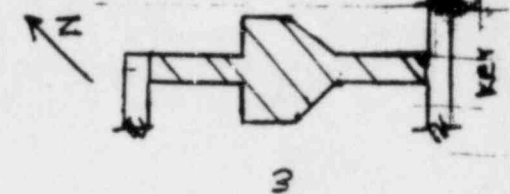
NORTH ELEVATION SLUICEGATE WALL



**ORIGINAL**



O = SURFACE IMPERFECTION



NONCONFORMANCE REPORT  
CONTINUATION SHEET

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DATE ISSUED

REV

PAGE 9 OF 19 OF 5/1/84

BLOCK 31A CONTINUED

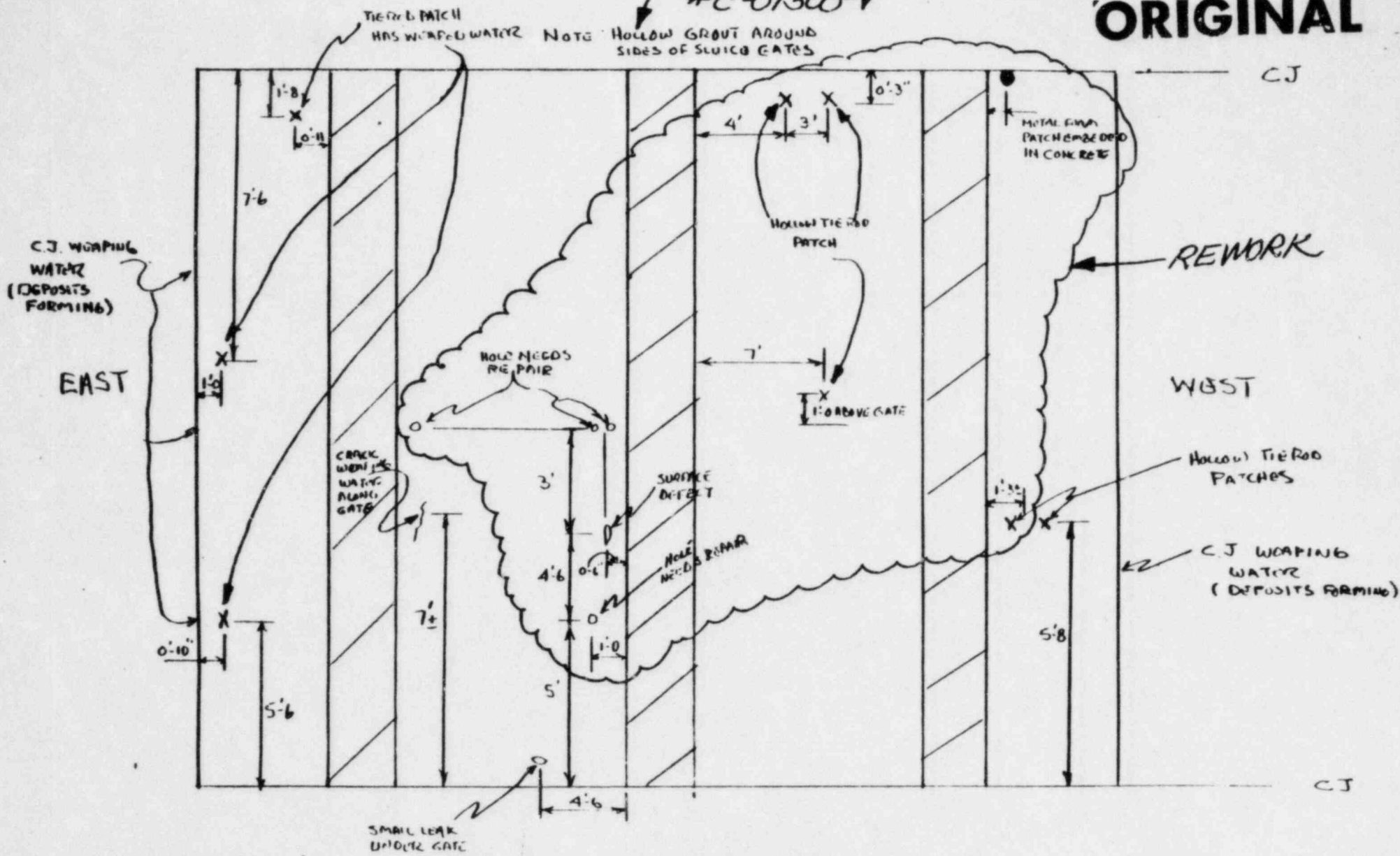
SEE ATTACHED PAGES 10 THRU 14 FOR  
IDENTIFICATION OF ITEMS AS FOLLOWS:

- (1) REWORK ITEMS NOTED THUS ; ~~REWORK~~ REWORK AS FOLLOWS WHERE APPLICABLE:
  - (A) REMOVE UNSOUND CONCRETE/GROUT/MORTAR.
  - (B) PREPARE & FILL CAVITIES (OVER 1/2" DEEP) PER SPEC. C-231, SECTION 17.0.
  - (C) REMOVE EMBEDDED WOOD.
- (2) SEE OTHER REFERENCED NCR FOR SAME ITEM, AS NOTED. DUPLICATE ITEM TO BE ADDRESSED ON REFERENCED NCR.
- (3) USE-AS-IS, FOR ALL ITEMS NOT NOTED AS INDICATED ABOVE.

J.T.M. 4/19/84

**ORIGINAL**

SEE NCR  
#C-01308-V



SWI (609) C'  
PARTIAL

NORTH FACE/SOUTH WALL ELEVATION (WATER WALL)

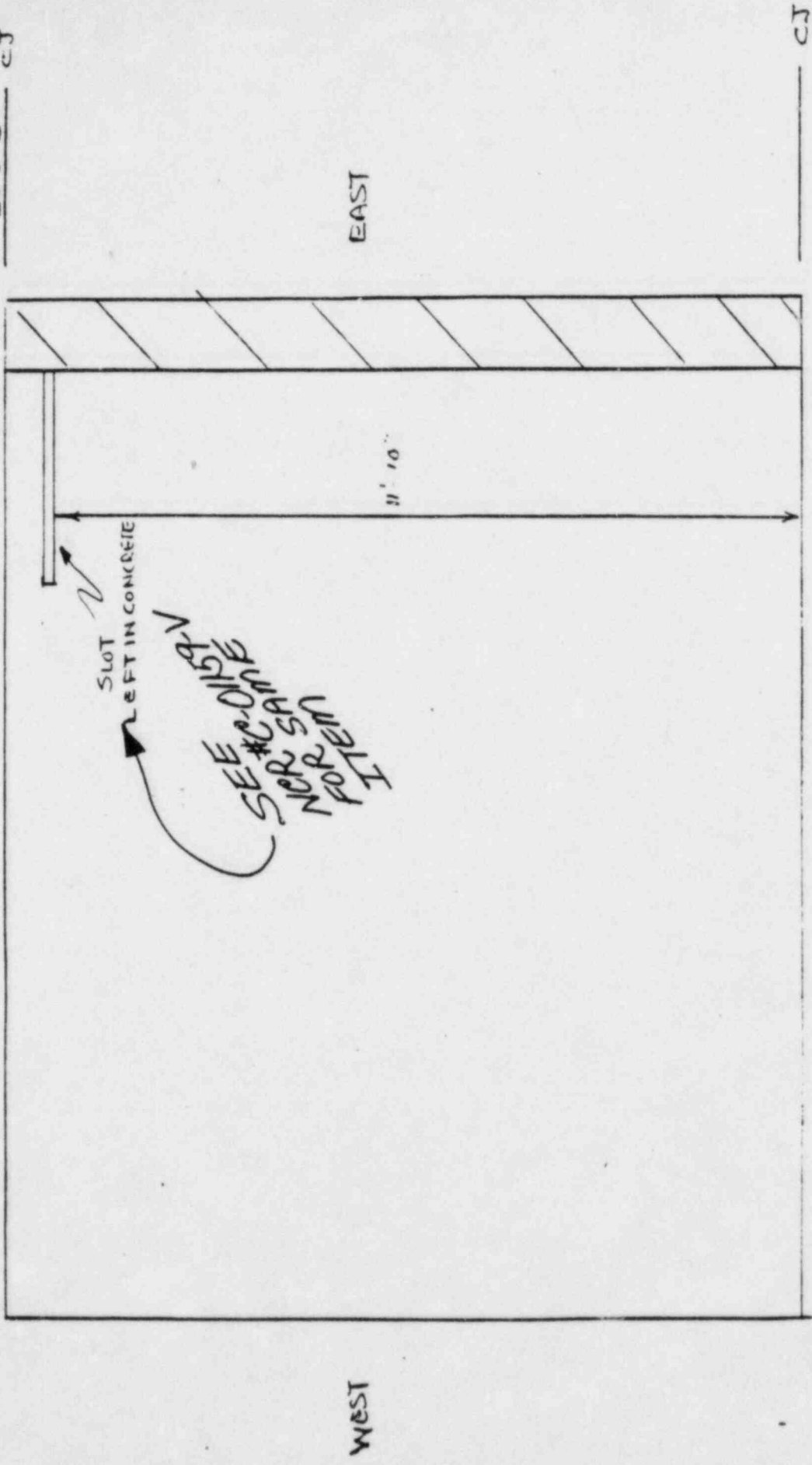
NTS



NCR # C-02243-V  
4-2-84

**ORIGINAL**

603'-6" CJ



SLOT  
LEFT IN CONCRETE

SEE #C-0159-V  
NCR SAME  
FOR ITEM  
I

SWI (609) C'  
PARTIAL

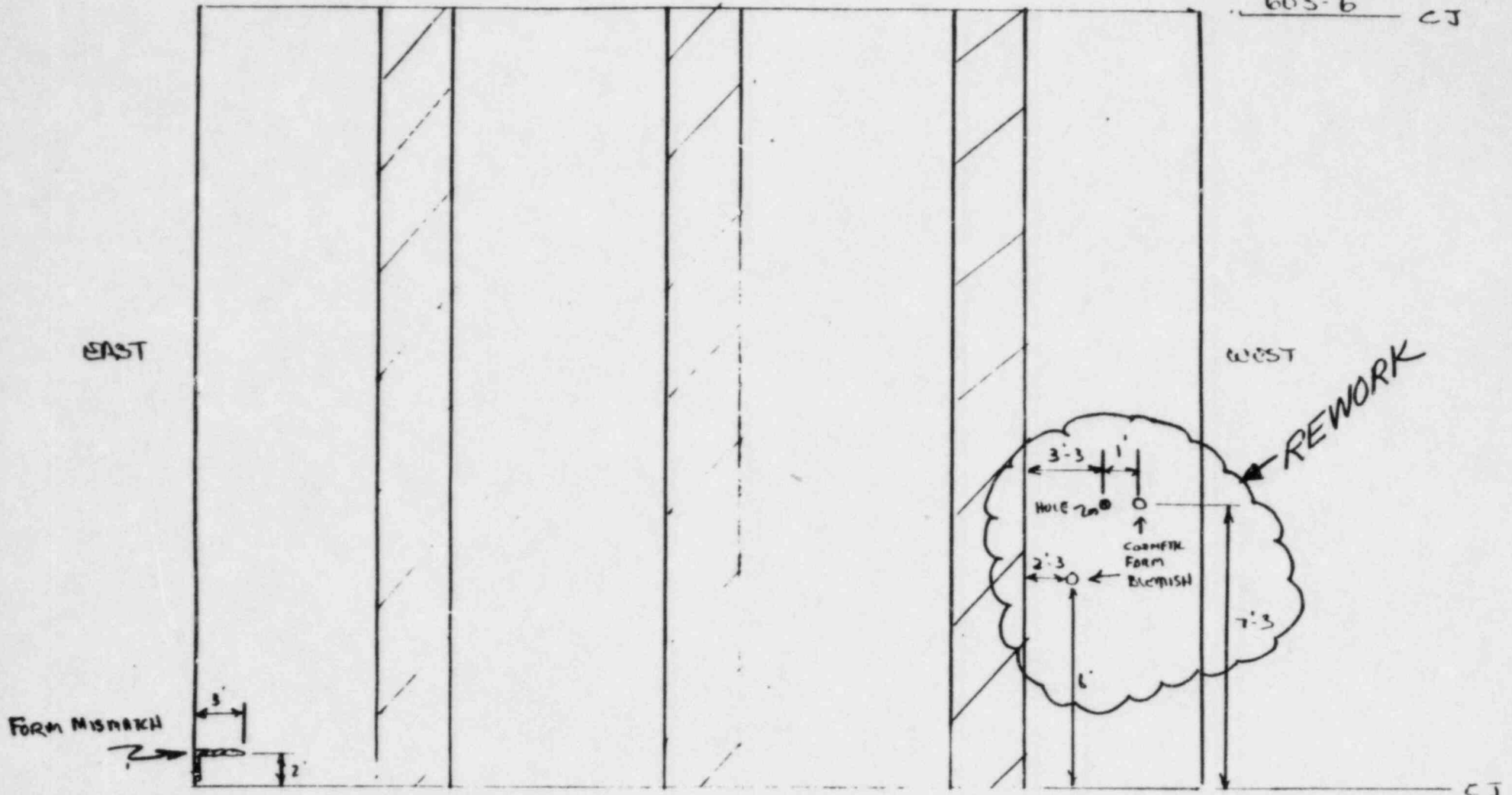
SOUTH ELEVATION SLUICE GATE WALL

Page 12 of 19  
PR  
5/1/84



**ORIGINAL**

603-b CJ



SW1 (609) C'  
PARTIAL

NORTH ELEVATION SLUCGATE WALL

19  
DEL  
4/1/84

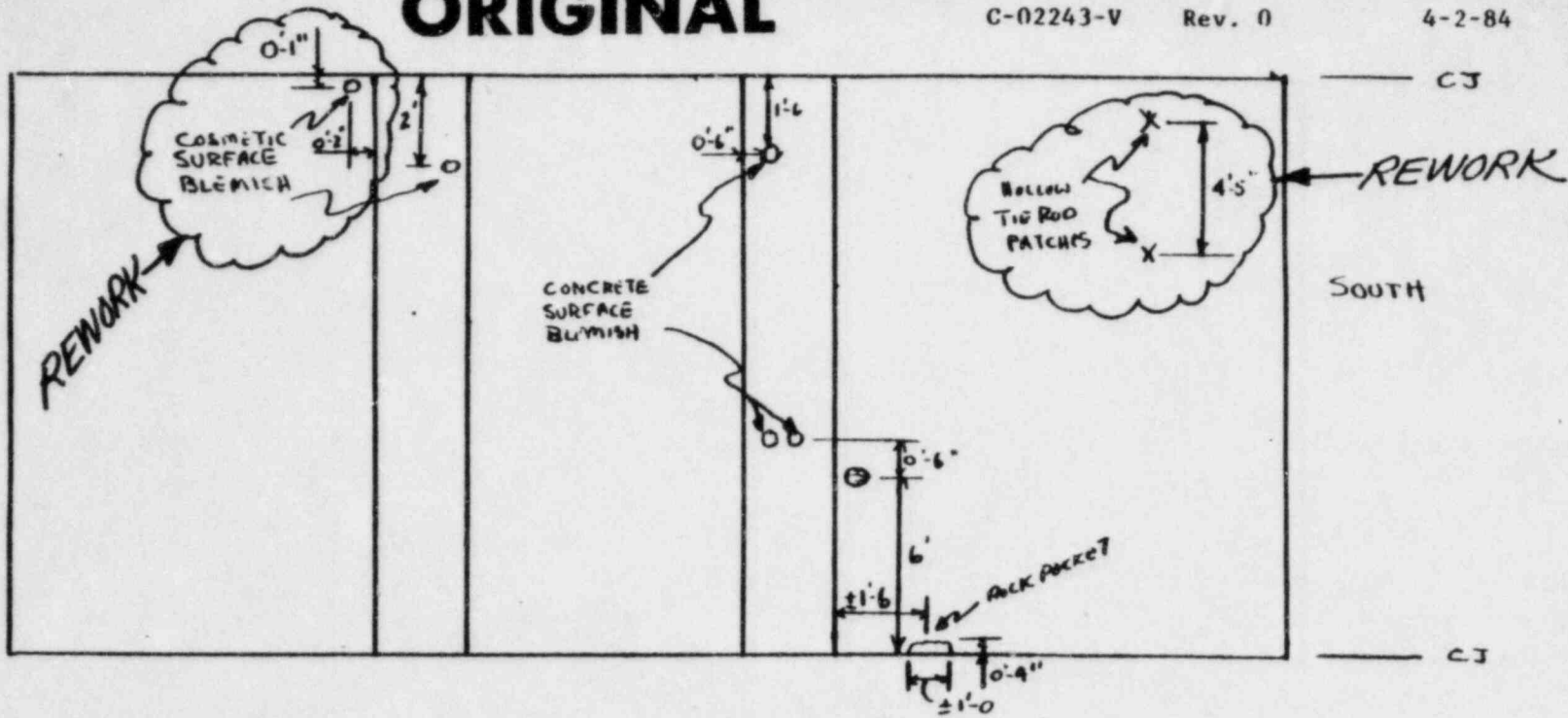


# ORIGINAL

C-02243-V Rev. 0

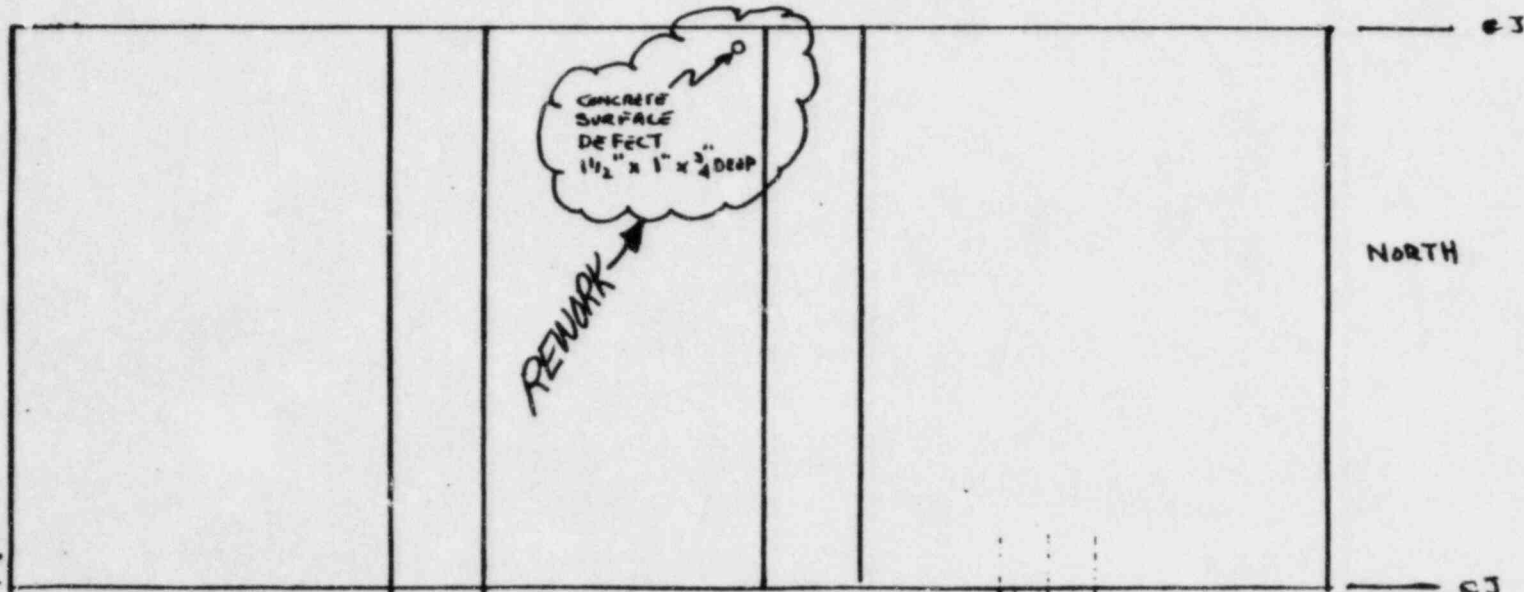
4-2-84

NORTH



WEST ELEVATION (FOLD OUT)

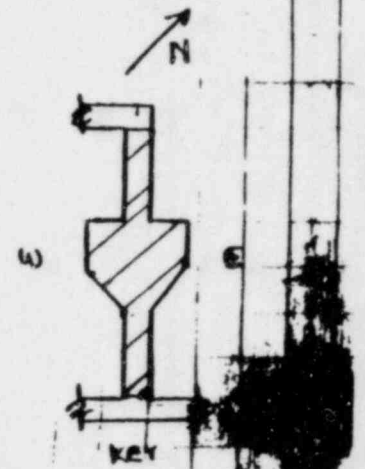
SOUTH



EAST ELEVATION (FOLD OUT)

O = SURFACE IMPERFECTIONS

NORTH



19 OK 5/1/84

BLOCK 31A (CONT'D)

Project Engineering Disposition

Items on page 10

IOA Project Engineering concurs with field engineering and recommends "REWORK" in the areas shown <sup>UP</sup> according by ~~spec~~ according to spec C-231 sect 17 4-27-84

IOB The tie rod patches at 1'-8" 7'-6" and 5'-6" from ~~the~~ THE C-Joints were found to be solid. A little moisture leakage will not affect structural integrity. The leakage will stop when hydrostatic pressure equalizes due to filling of water in the SWPS. Project Engineering recommends "USE AS IS" 4/13/84

IOC The crack weeping along the gate - The crack <sup>will</sup> build up calcium carbonate and stop leaking. This is a normal process in any marine structure. Project engineering recommends "USE AS IS" since that crack will be monitored by remedial soils group. See TOM from B Dhar to J. Hockwater dated 4-26-84 Com 149308 (See attached) 4/27/84

IOD The tie rod hole 5'-6" above C-J ~~was~~ <sup>is</sup> ~~found~~ <sup>to be</sup> ~~hollow~~ <sup>UP</sup> upon physical review. ~~The~~ disposition should be "USE AS IS" "INVALID" ~~OR~~ <sup>UP</sup> THE PATCH IS STRUCTURALLY SOUND. 4/30/84

IOD UPON PHYSICAL REVIEW, THE TIE ROD HOLE 5'-6" ABOVE THE CONSTRUCTION JOINT, IS FOUND TO BE STRUCTURALLY SOUND. P.E. DISPOSITION IS THAT THIS NONCONFORMANCE IS "INVALID". USE AS IS 8W 4/31/84

NONCONFORMANCE REPORT  
CONTINUATION SHEET

NCR NO. C-02243V	
DATE ISSUED 4-2-84	REV 0
PAGE 16 OF 1819 <i>2</i> 4-27-84	

Block 31 A (CONT'D)

Project Engineering Disposition (CONT'D)

IDE The const joint <sup>DATE 4/20/84</sup> ~~will~~ stop leaking after formation of calcium carbonate and equalization of hydrostatic pressure. This is a normal process in any marine structure. <sup>DATE 4/20/84</sup> ~~Additionally~~ <sup>ADDITIONALLY</sup> this area will be monitored by remedial soils group for crack surveys. See Form from B. Dhar to J. Hockwater dated 4/26/84 (Chron # 149300) <sup>DATE 4/30/84</sup> SEE PAGE 19. Project Engineering recommends "USE AS IS"

IDF The small leak under gate B due to tie rod patch and will stop when hydrostatic pressure equalizes. It does not affect structural integrity. The disposition is "USE AS IS"

Items on Page 11

IIA Project engineering concurs with field engineering and recommends "rework" in areas shown by clouding ~~and~~.

II B The hollow tie rod patch, upon physical review was found to be not hollow. Project Engineering's ~~recommends "USE AS IS"~~ <sup>DATE 4/20/84</sup> ~~DISPOSITION IS~~ <sup>DATE 4/20/84</sup> ~~THAT THE~~ NONCONFORMANCE IS ~~INITIAL~~ <sup>DATE 4/20/84</sup> ~~USE AS IS~~ <sup>DATE 4/20/84</sup> ~~SW~~ STRUCTURALLY SOUND.





NONCONFORMANCE REPORT  
CONTINUATION SHEET

NCR NO. C-02243 V

DATE ISSUED 4-2-84

REV 0

PAGE 18 OF 18 19 of 427-84

BLOCK 31A CONTD

PROJECT Engineering Disposition

Items on Page 14

14A Project Engineering concurs with field engineering and recommends "REwork" in areas shown by clouding on page 14. Rework according to spec C-231 sect 17

14B The concrete surface blemishes referred are of a non structural nature and give roughness to concrete. Spec C-231 sect 17.1 now requires "texture of concrete" to be "not a quality control inspection item" Project engineering. DISPOSITION IS TO "USE AS IS" - <sup>4.26.84</sup> ~~4.30/84~~ for this nonconformance see

14C The rock pocket was of minor nature. Physical review indicated that it was of no structural importance and did not damage the structural integrity. The recommended disposition is "USE AS IS"

No calcs reqd. No spec or dwg change reqd  
No impact on qual test

J. Stambler  
4.26.84

SN

J. Harkness for  
PV Raghavath 5/1/84

149308

MEMORANDUM

Page 19 of 19

TO JERRY HOEKWATER ✓ LOCATION MIDLAND JOBSITE OUTAGE BLDG.  
FROM B. DHAR DATE 4-26/84  
SUBJECT NRC C-02241-V, C-02249-V, C-01487-V JOB NO 7220  
C-2243, C-02167-V, C-2210-V, C-2299-V FILE RS-35

CIVIL STRUCTURAL ASKED FOR CIVIL SOILS RSE EVALUATION OF CRACKS THAT WERE INCLUDED IN NONCONFORMANCE OF SUBJECT NCRS. RSE COMMENTS ARE AS FOLLOWS:

DURING A MEETING WITH THE NRC (4-4/84-4-6/84) CONSUMERS POWER COMMITTED TO PERFORM AN ENGINEERING SURVEY OF THE SERVKE WATER PUMP STRUCTURE TO IDENTIFY SIGNIFICANT CRACKS. THE SURVEY SHALL BE PERFORMED AFTER COMPLETION OF THE UNDERPINNING AND BEFORE FUEL LOAD.

THE DATA COLLECTED FROM THAT ENGINEERING SURVEY SHALL BE USED TO EVALUATE THE INTEGRITY OF THE STRUCTURE. ALSO A REPORT WILL BE SUBMITTED TO THE NRC, BASED UPON THIS COMMITMENT TO PERFORM A FINAL CRACK SURVEY. PROJECT ENGINEERING RECOMMENDS USE AS IS FOR THE CRACKS IDENTIFIED.

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT JOHN DARBY AT THE MIDLAND JOBSITE, EXT. 7794.

WRR: NO

Com Use: NA

*John Darby* FOR B. DHAR



# ORIGINAL NONCONFORMANCE REPORT

16 NCR NO. C-02241-V	
17 DATE ISSUED 4-2-84	18 REV 0
19 PAGE <u>1</u> OF <u>4</u> <span style="float: right;">675 11 SWT 5-1-84</span>	

1 ITEM LOCATION SERVILE WATER PUMP STRUCTURE  
FLOOR SLAB ELEV 634'6" / CEILING ABOVE ELEV 592'

2 ITEM DRAWING/PART NO. 7220 / C-94 (R)	3 ITEM PART NAME SWI (634 <sup>2</sup> ) d	4 ITEM SERIAL NO. <b>INPUT TO DCC</b>
--	---	--

5 ITEM DESCRIPTION  
CONCRETE SLAB & BEAMS

DATE: 5-17-84

6 ITEM STARTUP SYSTEM NO. 800 D, E, F & G	7 REFERENCE DOCUMENT <u>SPEC C-231 REV 28</u> <u>PQC 7220 / C-140 REV 12 R123</u>	8 ASME A.N.I. REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
--	--	---

9 INSPECTION RECORD NO. V-C-140-33	LOG NO. V-1461	REV NO. 0	10 RESPONSIBLE ORGANIZATION CONSTRUCTION
---------------------------------------	-------------------	--------------	---

11 NONCONFORMANCE DISCOVERED DURING:

<input checked="" type="checkbox"/> POST INSPECT	<input type="checkbox"/> TURNOVER	<input type="checkbox"/> POST TURNOVER	<input type="checkbox"/> DESIGN	<input type="checkbox"/> RECEIVING	<input type="checkbox"/> CONST	<input type="checkbox"/> RELEASE FOR INSPECT
			<input type="checkbox"/> PRE-OP TEST	<input type="checkbox"/> FINAL TURNOVER	<input type="checkbox"/> OVERINSPECT	

12 REQUIREMENT  
SPEC C-231 REV 28 SECTION 17.1 STATES IN PART:  
IMPERFECTIONS IN FORMED CONCRETE SHALL BE REPAIRED AS SOON AS PRACTICABLE AFTER REMOVAL OF FORMS, IMPERFECTIONS IN FORMED CONCRETE SHALL BE REMOVED BY CHIPPING TO SOUND CONCRETE.

13 NONCONFORMANCE SEE ATTACHED SKETCH FOR THE PROXIMITY OF DEFECTS AS LISTED BELOW: IN THE WEST FACE OF EAST WALL @ ELEV 629 1/2' ± 4'9" TO 9'6" NORTH OF SOUTH WALL IN THE HORIZ. CONST. JOINT, LOOSE & HOLLOW SOUNDING GROUT & CONCRETE.  
ON THE EAST FACE OF EAST BULK HEAD OF SLUICE GATE OM 91A @ ELEV 628 ± TO 6'30" ± @ NORTH END OF BULK HEAD, HONEYCOMB AREA, EMBED FORM PATCH BOTTOM OF BEAM #1 3' ± NORTH OF SLUICE GATE WALL.

14 NCR ORIGINATED BY (PERSON)  
Jim Wyatt 4-2-84  
DATE  
15 NCR ORIGINATED BY (DISCIPLINE)  
QCD-CIVIL

20 NUMBER OF HOLD TAGS (IF APPLIED) 4	21 LOCATION OF HOLD TAGS <u>@ ITEMS # 1, 4, 8 &amp; 9</u> <u>RANDOM LOCATIONS AS LISTED ON SKETCH</u>
--	---

22 POTENTIAL 50.55(e) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	24 ACTION ITEM NO. S06035	26 ITEM PRIORITY CODE NO. 3	28 NCR REVIEWED BY: <u>K.L. Smith</u>
--	------------------------------	--------------------------------	--

23 REPORTED TO MPQA MANAGER DATE <u>N/A</u>	25 DISCIPLINE: C	27 TREND CODE CC-4 0011	DATE: 4-2-84
--	---------------------	----------------------------	-----------------

29 CAUSE POOR CLEANOUT OF FORMS PRIOR TO CONCRETE PLACEMENT POOR CONCRETE FINISH WORK AFTER FORMS WERE STRIPPED.

30 PROCESS CORRECTIVE ACTION  
 YES  NO QAR NO. \_\_\_\_\_

31 RECOMMENDED DISPOSITION ~~ITEM 3B INVALID SW~~  
 REWORK  SCRAP/REJECT  REPAIR  USE AS IS  
A.C. 1, 9, 11A, 3A, 5A <sup>5/1/84</sup> 3B, 8, 2, 4, 5B, 6, <sup>5/1/84</sup>

32 CONDITIONAL RELEASE  
 YES  NO

31A ADDITIONAL INFORMATION 5/1/84 7, 8, 10, 11B <sup>5/1/84</sup>  
SEE ATTACHED

33 DISTRIBUTION FOR ACTION  
TEAM-29  
TJD  
DRW

34 DISPOSITION CONCURRENCE  
Project Field Engineer DATE 5/4/84 J.P. DeChabon NPOAD CONCURRENCE DATE 5-4-84  
PFQCE (ASME) DATE  
LEAD DESIGN ORG DATE CP Co SMO (for turned over systems) DATE  
PQAE (ASME) DATE  
A.N.I. (ASME) DATE

35 DISPOSITION ACTION TAKEN  
ITEM 11A WORK WAS COMPLETED AND IS COVERED UNDER CWP (IRC-1.10-2081) C 755. ITEM A WORKED ON CWPC 722 (IR#C-110-8274) ALL OTHER REWORK ITEMS ARE COMPLETED.  
Tony Ochmondz 5/17/84

36 METHOD OF DISPOSITION ACTION VERIFICATION  
RESULT OF DISPOSITION ACTION VERIFICATION  
 ACCEPTABLE  UNACCEPTABLE  
IF UNACCEPTABLE, REFERENCE SUPERCEDING NCR NUMBER \_\_\_\_\_  
C-1.10-2071  
C-1.10-2081  
C-1.10-8274

37 NCR CLOSED BY  
[Signature] 5/17/84  
NPOAD DATE  
A.N.I. (ASME) DATE

# ORIGINAL

NONCONFORMANCE REPORT  
CONTINUATION SHEET

NCR NO.

C-02241-V

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0

PAGE 3 OF 4 AS WITH

IF SNTS-1-84

- ① EMBED WOOD S.E. CORNER OF RM#101, 6" BELOW CEILING ON WEST FACE OF EAST WALL  
3'6" NORTH OF THE SLUICE GATE WALL
- ② HONEYCOMB ON WEST FACE OF EAST WALL FROM 4' NORTH TO 8' NORTH OF SLUICE GATE  
WALL @ ELEV 630' TO 633'
- ③ TRASH & <sup>DEBRIS,</sup> ROCK POCKET IN THE WEST FACE OF THE EAST WALL FROM 6'4" NORTH TO 9'10"  
NORTH OF THE SLUICE GATE WALL @ ELEV 630' TO 633'
- ④ CRACKED VERTICAL CONSTRUCTION JOINT 18' NORTH OF THE SLUICE GATE WALL
- ⑤ HONEYCOMB IN THE EAST FACE OF BEAM #1, 3' TO 9' NORTH OF SLUICE GATE WALL
- ⑥ COSMETIC REPAIR ON GROUTED PENETRATIONS IN CEILING 9'4" NORTH OF SLUICE  
GATE WALL 6" EAST OF BEAM #1
- ⑦ SAME AS #6 ABOVE 14' ± NORTH OF SLUICE GATE WALL 12" EAST OF BEAM #1
- ⑧ SAND POCKET IN BOTTOM OF LIFT IN THE NORTH FACE OF THE SLUICE GATE WALL  
FROM WEST EDGE OF BEAM #1 TO 2 1/2' WEST OF BEAM (TO EAST EDGE OF BACKLIFT)
- ⑨ DEBRIS IN BOTTOM OF BEAM #2 FROM SLUICE GATE WALL TO 2' TO 3' NORTH.
- ⑩ CRACKED SLAB FROM NORTH FACE OF SLUICE GATE WALL TO 12' ± NORTH,  
PARALLEL & 1' EAST OF BEAM #2
- ⑪ CRACKED BEAM & DEBRIS @ CONSTRUCTION JOINT OF BEAM #1 18' NORTH  
OF THE SLUICE GATE WALL

ORIGINAL

C-02241-V

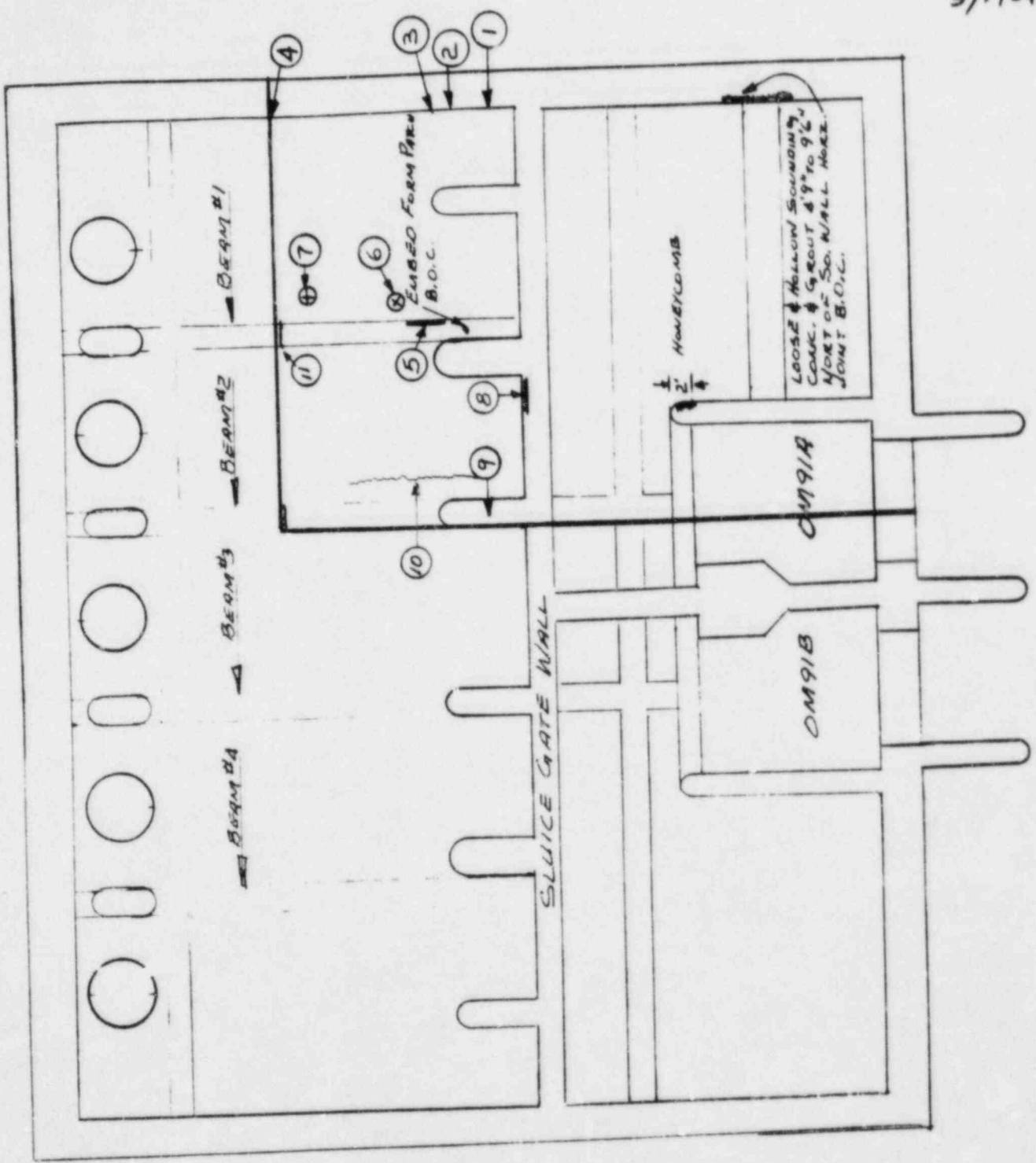
4-2-84

Rev. 0

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11 SWT  
5/1/84

SWPS SWI# (6345)d





- ⑤ REWORK (PORTION); THREE (3) CAVITIES EXCEED  $\frac{1}{2}$ " DEPTH AND TO BE FILLED PER SPEC C-231, SECTION 17.0.  
USE-AS-IS (BALANCE); BUG HOLES, NOT HONEYCOMB.
- ⑥ USE-AS-IS; "COSMETIC" CONDITION ONLY.
- ⑦ USE-AS-IS; "COSMETIC" CONDITION ONLY.
- ⑧ CORRECT LOCATION TO READ "WEST EDGE OF BEAM #2" IN LIEU OF "BEAM #1": USE-AS-IS; ~~REWORK~~ SURFACE IMPERFECTION ONLY.
- ⑨ TWO (2) SMALL ~~PIECES~~ PIECES OF PAPER (GUM WRAPPERS) EMBEDDED AT SURFACE: REWORK; REMOVE EMBEDDED DEBRIS.
- ⑩ ~~REWORK~~ USE-AS-IS; CRACKS NOT ADDRESSED IN SPEC C-231.
- ⑪ REWORK (DEBRIS); REMOVE DEBRIS (SAND/SAWDUST) FROM CONSTRUCTION JOINT ~~REWORK~~
- ~~REWORK~~ USE-AS-IS (CRACKS); CRACKS NOT ADDRESSED IN SPEC C-231.

OR WAY 4/17/84

BLOCK 31 A

Project Engineering Disposition.

Item A - In the west face of east wall @  
EG 629 1/2' ---

Project Engineering concurs with field engineering that the non conformance described should be "REWORK" according to Spec C-231

Item B - On the East face of East bulk head of  
sluice gate 0M91A ---

The item described upon physical review was found to be air voids. Form coatings applied in thick layers tend to hold the air bubbles to the form work. These air voids are of no structural consequence. The structural integrity of the building is not impaired. Project engineering recommends USE AS IS

Item C - Embedded form patch bottom of beam ---

Project Engineering concurs with field engineering and recommends "REWORK" for this item according to spec C-231. Remove form patch as necessary SW

Item 1, 3A, 5A, 5B, 5C, 5D, 5E, 5F, 5G, 5H, 5I, 5J, 5K, 5L, 5M, 5N, 5O, 5P, 5Q, 5R, 5S, 5T, 5U, 5V, 5W, 5X, 5Y, 5Z, 6A, 6B, 6C, 6D, 6E, 6F, 6G, 6H, 6I, 6J, 6K, 6L, 6M, 6N, 6O, 6P, 6Q, 6R, 6S, 6T, 6U, 6V, 6W, 6X, 6Y, 6Z, 7A, 7B, 7C, 7D, 7E, 7F, 7G, 7H, 7I, 7J, 7K, 7L, 7M, 7N, 7O, 7P, 7Q, 7R, 7S, 7T, 7U, 7V, 7W, 7X, 7Y, 7Z, 8A, 8B, 8C, 8D, 8E, 8F, 8G, 8H, 8I, 8J, 8K, 8L, 8M, 8N, 8O, 8P, 8Q, 8R, 8S, 8T, 8U, 8V, 8W, 8X, 8Y, 8Z, 9A, 9B, 9C, 9D, 9E, 9F, 9G, 9H, 9I, 9J, 9K, 9L, 9M, 9N, 9O, 9P, 9Q, 9R, 9S, 9T, 9U, 9V, 9W, 9X, 9Y, 9Z, 10A, 10B, 10C, 10D, 10E, 10F, 10G, 10H, 10I, 10J, 10K, 10L, 10M, 10N, 10O, 10P, 10Q, 10R, 10S, 10T, 10U, 10V, 10W, 10X, 10Y, 10Z, 11A, 11B, 11C, 11D, 11E, 11F, 11G, 11H, 11I, 11J, 11K, 11L, 11M, 11N, 11O, 11P, 11Q, 11R, 11S, 11T, 11U, 11V, 11W, 11X, 11Y, 11Z, 12A, 12B, 12C, 12D, 12E, 12F, 12G, 12H, 12I, 12J, 12K, 12L, 12M, 12N, 12O, 12P, 12Q, 12R, 12S, 12T, 12U, 12V, 12W, 12X, 12Y, 12Z, 13A, 13B, 13C, 13D, 13E, 13F, 13G, 13H, 13I, 13J, 13K, 13L, 13M, 13N, 13O, 13P, 13Q, 13R, 13S, 13T, 13U, 13V, 13W, 13X, 13Y, 13Z, 14A, 14B, 14C, 14D, 14E, 14F, 14G, 14H, 14I, 14J, 14K, 14L, 14M, 14N, 14O, 14P, 14Q, 14R, 14S, 14T, 14U, 14V, 14W, 14X, 14Y, 14Z, 15A, 15B, 15C, 15D, 15E, 15F, 15G, 15H, 15I, 15J, 15K, 15L, 15M, 15N, 15O, 15P, 15Q, 15R, 15S, 15T, 15U, 15V, 15W, 15X, 15Y, 15Z, 16A, 16B, 16C, 16D, 16E, 16F, 16G, 16H, 16I, 16J, 16K, 16L, 16M, 16N, 16O, 16P, 16Q, 16R, 16S, 16T, 16U, 16V, 16W, 16X, 16Y, 16Z, 17A, 17B, 17C, 17D, 17E, 17F, 17G, 17H, 17I, 17J, 17K, 17L, 17M, 17N, 17O, 17P, 17Q, 17R, 17S, 17T, 17U, 17V, 17W, 17X, 17Y, 17Z, 18A, 18B, 18C, 18D, 18E, 18F, 18G, 18H, 18I, 18J, 18K, 18L, 18M, 18N, 18O, 18P, 18Q, 18R, 18S, 18T, 18U, 18V, 18W, 18X, 18Y, 18Z, 19A, 19B, 19C, 19D, 19E, 19F, 19G, 19H, 19I, 19J, 19K, 19L, 19M, 19N, 19O, 19P, 19Q, 19R, 19S, 19T, 19U, 19V, 19W, 19X, 19Y, 19Z, 20A, 20B, 20C, 20D, 20E, 20F, 20G, 20H, 20I, 20J, 20K, 20L, 20M, 20N, 20O, 20P, 20Q, 20R, 20S, 20T, 20U, 20V, 20W, 20X, 20Y, 20Z, 21A, 21B, 21C, 21D, 21E, 21F, 21G, 21H, 21I, 21J, 21K, 21L, 21M, 21N, 21O, 21P, 21Q, 21R, 21S, 21T, 21U, 21V, 21W, 21X, 21Y, 21Z, 22A, 22B, 22C, 22D, 22E, 22F, 22G, 22H, 22I, 22J, 22K, 22L, 22M, 22N, 22O, 22P, 22Q, 22R, 22S, 22T, 22U, 22V, 22W, 22X, 22Y, 22Z, 23A, 23B, 23C, 23D, 23E, 23F, 23G, 23H, 23I, 23J, 23K, 23L, 23M, 23N, 23O, 23P, 23Q, 23R, 23S, 23T, 23U, 23V, 23W, 23X, 23Y, 23Z, 24A, 24B, 24C, 24D, 24E, 24F, 24G, 24H, 24I, 24J, 24K, 24L, 24M, 24N, 24O, 24P, 24Q, 24R, 24S, 24T, 24U, 24V, 24W, 24X, 24Y, 24Z, 25A, 25B, 25C, 25D, 25E, 25F, 25G, 25H, 25I, 25J, 25K, 25L, 25M, 25N, 25O, 25P, 25Q, 25R, 25S, 25T, 25U, 25V, 25W, 25X, 25Y, 25Z, 26A, 26B, 26C, 26D, 26E, 26F, 26G, 26H, 26I, 26J, 26K, 26L, 26M, 26N, 26O, 26P, 26Q, 26R, 26S, 26T, 26U, 26V, 26W, 26X, 26Y, 26Z, 27A, 27B, 27C, 27D, 27E, 27F, 27G, 27H, 27I, 27J, 27K, 27L, 27M, 27N, 27O, 27P, 27Q, 27R, 27S, 27T, 27U, 27V, 27W, 27X, 27Y, 27Z, 28A, 28B, 28C, 28D, 28E, 28F, 28G, 28H, 28I, 28J, 28K, 28L, 28M, 28N, 28O, 28P, 28Q, 28R, 28S, 28T, 28U, 28V, 28W, 28X, 28Y, 28Z, 29A, 29B, 29C, 29D, 29E, 29F, 29G, 29H, 29I, 29J, 29K, 29L, 29M, 29N, 29O, 29P, 29Q, 29R, 29S, 29T, 29U, 29V, 29W, 29X, 29Y, 29Z, 30A, 30B, 30C, 30D, 30E, 30F, 30G, 30H, 30I, 30J, 30K, 30L, 30M, 30N, 30O, 30P, 30Q, 30R, 30S, 30T, 30U, 30V, 30W, 30X, 30Y, 30Z, 31A, 31B, 31C, 31D, 31E, 31F, 31G, 31H, 31I, 31J, 31K, 31L, 31M, 31N, 31O, 31P, 31Q, 31R, 31S, 31T, 31U, 31V, 31W, 31X, 31Y, 31Z, 32A, 32B, 32C, 32D, 32E, 32F, 32G, 32H, 32I, 32J, 32K, 32L, 32M, 32N, 32O, 32P, 32Q, 32R, 32S, 32T, 32U, 32V, 32W, 32X, 32Y, 32Z, 33A, 33B, 33C, 33D, 33E, 33F, 33G, 33H, 33I, 33J, 33K, 33L, 33M, 33N, 33O, 33P, 33Q, 33R, 33S, 33T, 33U, 33V, 33W, 33X, 33Y, 33Z, 34A, 34B, 34C, 34D, 34E, 34F, 34G, 34H, 34I, 34J, 34K, 34L, 34M, 34N, 34O, 34P, 34Q, 34R, 34S, 34T, 34U, 34V, 34W, 34X, 34Y, 34Z, 35A, 35B, 35C, 35D, 35E, 35F, 35G, 35H, 35I, 35J, 35K, 35L, 35M, 35N, 35O, 35P, 35Q, 35R, 35S, 35T, 35U, 35V, 35W, 35X, 35Y, 35Z, 36A, 36B, 36C, 36D, 36E, 36F, 36G, 36H, 36I, 36J, 36K, 36L, 36M, 36N, 36O, 36P, 36Q, 36R, 36S, 36T, 36U, 36V, 36W, 36X, 36Y, 36Z, 37A, 37B, 37C, 37D, 37E, 37F, 37G, 37H, 37I, 37J, 37K, 37L, 37M, 37N, 37O, 37P, 37Q, 37R, 37S, 37T, 37U, 37V, 37W, 37X, 37Y, 37Z, 38A, 38B, 38C, 38D, 38E, 38F, 38G, 38H, 38I, 38J, 38K, 38L, 38M, 38N, 38O, 38P, 38Q, 38R, 38S, 38T, 38U, 38V, 38W, 38X, 38Y, 38Z, 39A, 39B, 39C, 39D, 39E, 39F, 39G, 39H, 39I, 39J, 39K, 39L, 39M, 39N, 39O, 39P, 39Q, 39R, 39S, 39T, 39U, 39V, 39W, 39X, 39Y, 39Z, 40A, 40B, 40C, 40D, 40E, 40F, 40G, 40H, 40I, 40J, 40K, 40L, 40M, 40N, 40O, 40P, 40Q, 40R, 40S, 40T, 40U, 40V, 40W, 40X, 40Y, 40Z, 41A, 41B, 41C, 41D, 41E, 41F, 41G, 41H, 41I, 41J, 41K, 41L, 41M, 41N, 41O, 41P, 41Q, 41R, 41S, 41T, 41U, 41V, 41W, 41X, 41Y, 41Z, 42A, 42B, 42C, 42D, 42E, 42F, 42G, 42H, 42I, 42J, 42K, 42L, 42M, 42N, 42O, 42P, 42Q, 42R, 42S, 42T, 42U, 42V, 42W, 42X, 42Y, 42Z, 43A, 43B, 43C, 43D, 43E, 43F, 43G, 43H, 43I, 43J, 43K, 43L, 43M, 43N, 43O, 43P, 43Q, 43R, 43S, 43T, 43U, 43V, 43W, 43X, 43Y, 43Z, 44A, 44B, 44C, 44D, 44E, 44F, 44G, 44H, 44I, 44J, 44K, 44L, 44M, 44N, 44O, 44P, 44Q, 44R, 44S, 44T, 44U, 44V, 44W, 44X, 44Y, 44Z, 45A, 45B, 45C, 45D, 45E, 45F, 45G, 45H, 45I, 45J, 45K, 45L, 45M, 45N, 45O, 45P, 45Q, 45R, 45S, 45T, 45U, 45V, 45W, 45X, 45Y, 45Z, 46A, 46B, 46C, 46D, 46E, 46F, 46G, 46H, 46I, 46J, 46K, 46L, 46M, 46N, 46O, 46P, 46Q, 46R, 46S, 46T, 46U, 46V, 46W, 46X, 46Y, 46Z, 47A, 47B, 47C, 47D, 47E, 47F, 47G, 47H, 47I, 47J, 47K, 47L, 47M, 47N, 47O, 47P, 47Q, 47R, 47S, 47T, 47U, 47V, 47W, 47X, 47Y, 47Z, 48A, 48B, 48C, 48D, 48E, 48F, 48G, 48H, 48I, 48J, 48K, 48L, 48M, 48N, 48O, 48P, 48Q, 48R, 48S, 48T, 48U, 48V, 48W, 48X, 48Y, 48Z, 49A, 49B, 49C, 49D, 49E, 49F, 49G, 49H, 49I, 49J, 49K, 49L, 49M, 49N, 49O, 49P, 49Q, 49R, 49S, 49T, 49U, 49V, 49W, 49X, 49Y, 49Z, 50A, 50B, 50C, 50D, 50E, 50F, 50G, 50H, 50I, 50J, 50K, 50L, 50M, 50N, 50O, 50P, 50Q, 50R, 50S, 50T, 50U, 50V, 50W, 50X, 50Y, 50Z, 51A, 51B, 51C, 51D, 51E, 51F, 51G, 51H, 51I, 51J, 51K, 51L, 51M, 51N, 51O, 51P, 51Q, 51R, 51S, 51T, 51U, 51V, 51W, 51X, 51Y, 51Z, 52A, 52B, 52C, 52D, 52E, 52F, 52G, 52H, 52I, 52J, 52K, 52L, 52M, 52N, 52O, 52P, 52Q, 52R, 52S, 52T, 52U, 52V, 52W, 52X, 52Y, 52Z, 53A, 53B, 53C, 53D, 53E, 53F, 53G, 53H, 53I, 53J, 53K, 53L, 53M, 53N, 53O, 53P, 53Q, 53R, 53S, 53T, 53U, 53V, 53W, 53X, 53Y, 53Z, 54A, 54B, 54C, 54D, 54E, 54F, 54G, 54H, 54I, 54J, 54K, 54L, 54M, 54N, 54O, 54P, 54Q, 54R, 54S, 54T, 54U, 54V, 54W, 54X, 54Y, 54Z, 55A, 55B, 55C, 55D, 55E, 55F, 55G, 55H, 55I, 55J, 55K, 55L, 55M, 55N, 55O, 55P, 55Q, 55R, 55S, 55T, 55U, 55V, 55W, 55X, 55Y, 55Z, 56A, 56B, 56C, 56D, 56E, 56F, 56G, 56H, 56I, 56J, 56K, 56L, 56M, 56N, 56O, 56P, 56Q, 56R, 56S, 56T, 56U, 56V, 56W, 56X, 56Y, 56Z, 57A, 57B, 57C, 57D, 57E, 57F, 57G, 57H, 57I, 57J, 57K, 57L, 57M, 57N, 57O, 57P, 57Q, 57R, 57S, 57T, 57U, 57V, 57W, 57X, 57Y, 57Z, 58A, 58B, 58C, 58D, 58E, 58F, 58G, 58H, 58I, 58J, 58K, 58L, 58M, 58N, 58O, 58P, 58Q, 58R, 58S, 58T, 58U, 58V, 58W, 58X, 58Y, 58Z, 59A, 59B, 59C, 59D, 59E, 59F, 59G, 59H, 59I, 59J, 59K, 59L, 59M, 59N, 59O, 59P, 59Q, 59R, 59S, 59T, 59U, 59V, 59W, 59X, 59Y, 59Z, 60A, 60B, 60C, 60D, 60E, 60F, 60G, 60H, 60I, 60J, 60K, 60L, 60M, 60N, 60O, 60P, 60Q, 60R, 60S, 60T, 60U, 60V, 60W, 60X, 60Y, 60Z, 61A, 61B, 61C, 61D, 61E, 61F, 61G, 61H, 61I, 61J, 61K, 61L, 61M, 61N, 61O, 61P, 61Q, 61R, 61S, 61T, 61U, 61V, 61W, 61X, 61Y, 61Z, 62A, 62B, 62C, 62D, 62E, 62F, 62G, 62H, 62I, 62J, 62K, 62L, 62M, 62N, 62O, 62P, 62Q, 62R, 62S, 62T, 62U, 62V, 62W, 62X, 62Y, 62Z, 63A, 63B, 63C, 63D, 63E, 63F, 63G, 63H, 63I, 63J, 63K, 63L, 63M, 63N, 63O, 63P, 63Q, 63R, 63S, 63T, 63U, 63V, 63W, 63X, 63Y, 63Z, 64A, 64B, 64C, 64D, 64E, 64F, 64G, 64H, 64I, 64J, 64K, 64L, 64M, 64N, 64O, 64P, 64Q, 64R, 64S, 64T, 64U, 64V, 64W, 64X, 64Y, 64Z, 65A, 65B, 65C, 65D, 65E, 65F, 65G, 65H, 65I, 65J, 65K, 65L, 65M, 65N, 65O, 65P, 65Q, 65R, 65S, 65T, 65U, 65V, 65W, 65X, 65Y, 65Z, 66A, 66B, 66C, 66D, 66E, 66F, 66G, 66H, 66I, 66J, 66K, 66L, 66M, 66N, 66O, 66P, 66Q, 66R, 66S, 66T, 66U, 66V, 66W, 66X, 66Y, 66Z, 67A, 67B, 67C, 67D, 67E, 67F, 67G, 67H, 67I, 67J, 67K, 67L, 67M, 67N, 67O, 67P, 67Q, 67R, 67S, 67T, 67U, 67V, 67W, 67X, 67Y, 67Z, 68A, 68B, 68C, 68D, 68E, 68F, 68G, 68H, 68I, 68J, 68K, 68L, 68M, 68N, 68O, 68P, 68Q, 68R, 68S, 68T, 68U, 68V, 68W, 68X, 68Y, 68Z, 69A, 69B, 69C, 69D, 69E, 69F, 69G, 69H, 69I, 69J, 69K, 69L, 69M, 69N, 69O, 69P, 69Q, 69R, 69S, 69T, 69U, 69V, 69W, 69X, 69Y, 69Z, 70A, 70B, 70C, 70D, 70E, 70F, 70G, 70H, 70I, 70J, 70K, 70L, 70M, 70N, 70O, 70P, 70Q, 70R, 70S, 70T, 70U, 70V, 70W, 70X, 70Y, 70Z, 71A, 71B, 71C, 71D, 71E, 71F, 71G, 71H, 71I, 71J, 71K, 71L, 71M, 71N, 71O, 71P, 71Q, 71R, 71S, 71T, 71U, 71V, 71W, 71X, 71Y, 71Z, 72A, 72B, 72C, 72D, 72E, 72F, 72G, 72H, 72I, 72J, 72K, 72L, 72M, 72N, 72O, 72P, 72Q, 72R, 72S, 72T, 72U, 72V, 72W, 72X, 72Y, 72Z, 73A, 73B, 73C, 73D, 73E, 73F, 73G, 73H, 73I, 73J, 73K, 73L, 73M, 73N, 73O, 73P, 73Q, 73R, 73S, 73T, 73U, 73V, 73W, 73X, 73Y, 73Z, 74A, 74B, 74C, 74D, 74E, 74F, 74G, 74H, 74I, 74J, 74K, 74L, 74M, 74N, 74O, 74P, 74Q, 74R, 74S, 74T, 74U, 74V, 74W, 74X, 74Y, 74Z, 75A, 75B, 75C, 75D, 75E, 75F, 75G, 75H, 75I, 75J, 75K, 75L, 75M, 75N, 75O, 75P, 75Q, 75R, 75S, 75T, 75U, 75V, 75W, 75X, 75Y, 75Z, 76A, 76B, 76C, 76D, 76E, 76F, 76G, 76H, 76I, 76J, 76K, 76L, 76M, 76N, 76O, 76P, 76Q, 76R, 76S, 76T, 76U, 76V, 76W, 76X, 76Y, 76Z, 77A, 77B, 77C, 77D, 77E, 77F, 77G, 77H, 77I, 77J, 77K, 77L, 77M, 77N, 77O, 77P, 77Q, 77R, 77S, 77T, 77U, 77V, 77W, 77X, 77Y, 77Z, 78A, 78B, 78C, 78D, 78E, 78F, 78G, 78H, 78I, 78J, 78K, 78L, 78M, 78N, 78O, 78P, 78Q, 78R, 78S, 78T, 78U, 78V, 78W, 78X, 78Y, 78Z, 79A, 79B, 79C, 79D, 79E, 79F, 79G, 79H, 79I, 79J, 79K, 79L, 79M, 79N, 79O, 79P, 79Q, 79R, 79S, 79T, 79U, 79V, 79W, 79X, 79Y, 79Z, 80A, 80B, 80C, 80D, 80E, 80F, 80G, 80H, 80I, 80J, 80K, 80L, 80M, 80N, 80O, 80P, 80Q, 80R, 80S, 80T, 80U, 80V, 80W, 80X, 80Y, 80Z, 81A, 81B, 81C, 81D, 81E, 81F, 81G, 81H, 81I, 81J, 81K, 81L, 81M, 81N, 81O, 81P, 81Q, 81R, 81S, 81T, 81U, 81V, 81W, 81X, 81Y, 81Z, 82A, 82B, 82C, 82D, 82E, 82F, 82G, 82H, 82I, 82J, 82K, 82L, 82M, 82N, 82O, 82P, 82Q, 82R, 82S, 82T, 82U, 82V, 82W, 82X, 82Y, 82Z, 83A, 83B, 83C, 83D, 83E, 83F, 83G, 83H, 83I, 83J, 83K, 83L, 83M, 83N, 83O, 83P, 83Q, 83R, 83S, 83T, 83U, 83V, 83W, 83X, 83Y, 83Z, 84A, 84B, 84C, 84D, 84E, 84F, 84G, 84H, 84I, 84J, 84K, 84L, 84M, 84N, 84O, 84P, 84Q, 84R, 84S, 84T, 84U, 84V, 84W, 84X, 84Y, 84Z, 85A, 85B, 85C, 85D, 85E, 85F, 85G, 85H, 85I, 85J, 85K, 85L, 85M, 85N, 85O, 85P, 85Q, 85R, 85S, 85T, 85U, 85V, 85W, 85X, 85Y, 85Z, 86A, 86B, 86C, 86D, 86E, 86F, 86G, 86H, 86I, 86J, 86K, 86L, 86M, 86N, 86O, 86P, 86Q, 86R, 86S, 86T, 86U, 86V, 86W, 86X, 86Y, 86Z, 87A, 87B, 87C, 87D, 87E, 87F, 87G, 87H, 87I, 87J, 87K, 87L, 87M, 87N, 87O, 87P, 87Q, 87R, 87S, 87T, 87U, 87V, 87W, 87X, 87Y, 87Z, 88A, 88B, 88C, 88D, 88E, 88F, 88G, 88H, 88I, 88J, 88K, 88L, 88M, 88N, 88O, 88P, 88Q, 88R, 88S, 88T, 88U, 88V, 88W, 88X, 88Y, 88Z, 89A, 89B, 89C, 89D, 89E, 89F, 89G, 89H, 89I, 89J, 89K, 89L, 89M, 89N, 89O, 89P, 89Q, 89R, 89S, 89T, 89U, 89V, 89W, 89X, 89Y, 89Z, 90A, 90B, 90C, 90D, 90E, 90F, 90G, 90H, 90I, 90J, 90K, 90L, 90M, 90N, 90O, 90P, 90Q, 90R, 90S, 90T, 90U, 90V, 90W, 90X, 90Y, 90Z, 91A, 91B, 91C, 91D, 91E, 91F, 91G, 91H, 91I, 91J, 91K, 91L, 91M, 91N, 91O, 91P, 91Q, 91R, 91S, 91T, 91U, 91V, 91W, 91X, 91Y, 91Z, 92A, 92B, 92C, 92D, 92E, 92F, 92G, 92H, 92I, 92J, 92K, 92L, 92M, 92N, 92O, 92P, 92Q, 92R, 92S, 92T, 92U, 92V, 92W, 92X, 92Y, 92Z, 93A, 93B, 93C, 93D, 93E, 93F, 93G, 93H, 93I, 93J, 93K, 93L, 93M, 93N, 93O, 93P, 93Q, 93R, 93S, 93T, 93U, 93V, 93W, 93X, 93Y, 93Z, 94A, 94B, 94C, 94D, 94E, 94F, 94G, 94H, 94I, 94J, 94K, 94L, 94M, 94N, 94O, 94P, 94Q, 94R, 94S, 94T, 94U, 94V, 94W, 94X, 94Y, 94Z, 95A, 95B, 95C, 95D, 95E, 95F, 95G, 95H, 95I, 95J, 95K, 95L, 95M, 95N, 9



Block 31 A (CONT'D)

Project Engineering Disposition

SUMMARY OF ITEMS DISPOSITIONED

REWORK :- A, C, 1, 3A (partial) <sup>see</sup> 5A (partial) <sup>see</sup>, 9, 11A

USE AS IS :- B, 2, 3 (partial) <sup>see 4/30/84</sup>, 4, 5B (partial) <sup>see</sup>  
6, 7, 8, 10, 11B

INVALID - 3 (PARTIAL) B <sup>see 4/30/84</sup>

No calcs req'd. No <sup>of</sup> dwg or spec change req'd.

No impact on qual test

*[Signature]*  
4/27/84

SN

J. Hackwater for PVR <sup>approval</sup>  
5/1/84

Block 31A

Project Engineering Disposition

Item 8 The location of the non-conformance is incorrectly described. The location should read "west edge of beam # 2". Physical review indicated that there was no sand pocket. Some surface imperfections were found which rendered this area rough. Project engineering recommends "USE AS IS" since these imperfections do not affect structural integrity.

Item 9 Project engineering concurs with field engineering and recommends "REWORK" according to spec C-231 as necessary.

Item 11 (IA) Project engineering concurs with field engineering and recommends "REWORK" THE DEBRIS <sup>IN THE</sup> ~~AND~~ <sup>OPIL.</sup> for construction joint <sup>IDENTIFIED</sup> ~~OPIL~~ Remove all debris and rework according to spec C-231

(IB) The crack in the beam will be monitored by remedial soils group. See IOM from B. Akar to J. Hockwater dated 4-26-84 Com 149308 page 11 of this NCR.) P.E. DISPOSITION IS TO "USE AS IS".

Block 31A (Cont'd)

Project Engineering Disposition

These areas will be repaired <sup>"REWORKED"</sup> Remaining areas <sup>(5B)</sup> were air voids left due to excessive application of form coatings. These air voids do not affect the structural integrity. Project engineering recommends "USE AS IS" for these areas in item 3 SB 4/18/84. For item 3B no rock pockets were found and the recommended disposition is ~~"USE AS IS"~~ <sup>"INFACT"</sup> USE AS IS <sup>SW</sup>.

Item 2 Physical review indicated that the area had air voids due to excessive application of form agent used for form separation. These air voids do not affect structural integrity. Project engineering recommends USE AS IS.

Item 4, 10 The cracks identified in these items will be monitored by remedial soils group. See attached IOM from B Dhar to J. Hoekwater dated 4-26-84 Com # 149308 (page 11 of this NCR) The disposition is "USE AS IS".

Item 6, 7 <sup>NONCONFORMANCE STATEMENTS</sup> The ~~statements~~ indicated that these areas need cosmetic repairs. Physical review indicated that these areas have rough finish. Since they do not affect structural integrity the disposition is "USE AS IS".

149308

MEMORANDUMTO JERRY HOEKWATER ✓ LOCATION MIDLAND JOBSITE OUTAGE BLDG.FROM B. DHAR DATE 4-26/84SUBJECT NRC-02241-V, C-02249-V, C-01487-V JOB NO. 7220C-2243, C-02167-V, C-2212-V, C-2249-V FILE RS-35

CIVIL STRUCTURAL ASKED FOR CIVIL SOILS RSE EVALUATION OF CRACKS THAT WERE INCLUDED IN NONCONFORMANCE OF SUBJECT NCRS. RSE COMMENTS ARE AS FOLLOWS:

DURING A MEETING WITH THE NRC (4-4/84-4-6/84) CONSUMERS POWER COMMITTED TO PERFORM AN ENGINEERING SURVEY OF THE SERVKE WATER PUMP STRUCTURE TO IDENTIFY SIGNIFICANT CRACKS. THE SURVEY SHALL BE PERFORMED AFTER COMPLETION OF THE UNDERPINNING AND BEFORE FUEL LOAD.

THE DATA COLLECTED FROM THAT ENGINEERING SURVEY SHALL BE USED TO EVALUATE THE INTEGRITY OF THE STRUCTURE. ALSO A REPORT WILL BE SUBMITTED TO THE NRC, BASED UPON THIS COMMITMENT TO PERFORM A FINAL CRACK SURVEY. PROJECT ENGINEERING RECOMMENDS USE AS IS FOR THE CRACKS IDENTIFIED.

IF YOU HAVE ANY QUESTIONS PLEASE CONTACT JOHN DARBY AT THE MIDLAND JOBSITE, EXT. 7794.

WRR: NO

Com Use: NA

*John Darby* FOR B. DHAR