

Procedure No. W-SP-13

J. A. JONES CONSTRUCTION COMPANY

SPECIAL PROCESS PROCEDURE

FOR

REPAIR, INSPECTION, DOCUMENTATION AND VERIFICATION
OF THE BASE MAT FOUNDATION BENEATH COLUMNS H10A AND H11A
LYING ON PLACEMENT 19

ADDENDUM NO. 1

WATERFORD SES UNIT NO. 3
CONTRACT NO. W3-NY-4

REV.	DATE	ENGINEERING REVIEWED BY	DATE	CONSTRUCTION REVIEWED BY	DATE	QUALITY ASSURANCE APPROVED BY	DATE
0	10-4-76	al Pries	10/4/76	D. B. Harris	10-4-76	[Signature]	10/4/76
1	10-7-76	al Pries	10/8/76	R. B. Washburn	10-8-76	[Signature]	10/8/76

REVIEWED

W/ COMMENTS

W/O COMMENTS X

REJECTED

EBASCO QUALITY ASSURANCE

BY: for [Signature]

DATE: 10-11-76

FREEDOM OF INFORMATION
ACT REQUEST

84-455

C/623

8506220091 850222
PDR FOIA
GARDE84-455 PDR

SPECIAL PROCESS PROCEDURE		PROCEDURE NO. W-SP-13 ADD. #1
TITLE: REPAIR, INSPECTION, DOCUMENTATION AND VERIFICATION OF THE BASE MAT FOUNDATION BENEATH COLUMNS H10A AND H11A LYING ON		REV. NO. 1 & DATE 10/7/76
PROJECT TITLE: PLACEMENT 19 WATERFORD SES UNIT NO. 3 CONTRACT NO. W3-NY-4		
<u>ADDENDUM NO. 1</u>		
1.0 <u>GENERAL</u>		
1.1 Verification core holes shall be 2" or 4" in diameter, as directed by the Engineer, and shall be drilled at or as near as possible to those locations on Attachments A1 and A2 to this Addendum.		
1.2 After cores are removed, visual inspection of both the core sample and the core hole shall be performed. Any voids, fractures, etc. shall be noted and documented.		
1.3 One 4" core from each column shall be cut, capped and compressive test run on it to determine integrity of grouting operation. Acceptable compressive strength shall be a minimum of 4000 PSI.		
1.4 Based upon inspection of cores and core holes, additional core holes shall be drilled, if required, and, as directed by the Engineer. The additional core holes shall be located by J. A. Jones' Quality Verification personnel on Attachment "A" and become a part of the final documentation.		
1.5 After cores are removed, visually inspect both the core and the core hole and document any voids, fractures, etc.		
1.6 Upon completion of the verification coring and inspection, the verification core holes shall be grouted as follows.		
1.7 A checklist, Appendix A, agreed to by the Engineer, of all material and equipment required for accomplishment of the work set forth in this procedure shall be initiated and checked off prior to beginning any grouting operation.		
1.8 Grout holes shall be prepared as follows and documented on Appendix B.		
1.8.1 Prior to start of work, all holes shall be cleaned by vacuuming all debris and free standing water.		
1.8.2 Install a 1/4" grout tube to a depth approximately 6" from the bottom of the hole.		
1.8.3 Pour approved aggregate loosely into the hole to an elevation to allow setting of packer.		
1.8.4 Install the mechanical packer with vent and connect to 1/4" grout tube.		
1.8.5 Install quick disconnect to grout tube.		

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<p>1.9 Grouting shall be performed in accordance with Section 2.0 of this Addendum using Concreseive* 1380 material.</p> <p>1.10 Inspection and documentation shall be performed in accordance with Section 3.0 of this procedure.</p> <p>1.11 Verification cores shall be taken, documented and tested in accordance with Section 4.0 of this procedure before further construction on subject columns may proceed.</p> <p>2.0 <u>GROUTING</u></p> <p>2.1 A minimum of four injection machines shall be on hand for the grouting operation.</p> <p>2.2 Start the grouting operation at the northern corner of Column H11A. Observe all holes for influence of grout. If grout is observed entering another hole, prepare hole for grouting and start grouting with second machine. If grout is observed flowing into other holes, add aggregate to hole as influence of grout requires. Continue pumping these holes until refusal at 180 PSI. Continuously observe all holes and add aggregate as required. When aggregate level reaches a point requiring installation of packer, then install packer, leaving vent open until all air escapes, then close vent. When any hole which is being pumped reaches refusal, then proceed to the next hole designated and prepare for grouting. Begin grouting when directed by the J. A. Jones Engineer. Continue grouting from north to south in accordance with above procedure until all holes in Column H11A are grouted.</p> <p>2.3 Start the grouting operation at the northern corner of Column H10A. Observe all holes for influence of grout. If grout is observed entering another hole, prepare hole for grouting and start grouting with third machine. If grout is observed flowing into other holes, add aggregate to hole as influence of grout requires. Continuously observe all holes and add aggregate as required. When aggregate level reaches a point requiring installation of packer, then install packer, leaving vent open until all air escapes then close vent. When any hole which is being pumped reaches refusal, then proceed to the next hole designated and prepare for grouting. Begin grouting when directed by the J. A. Jones Engineer. Continue grouting from north to south in accordance with above procedure until all holes in Column H10A are grouted.</p>		

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3.0 INSPECTION

3.1 J. A. Jones' Quality Verification personnel shall be responsible for all documentation required by this procedure.

3.2 Quality Verification personnel shall complete Material and Equipment Checklist, Appendix A, and Inspection Checklist, Appendix B, before any grouting operation begins.

3.3 Quality Verification personnel shall complete the Observation of Grout Flow Checklist, Appendix D, as the grouting operation progresses.

3.3.1 All holes in a twenty foot (20') radius of the grouting operation shall be inspected a maximum of every ten (10) minutes for evidence of grout influence. If grout is evident, the J. A. Jones Engineer shall be informed and he shall determine if aggregate is to be added.

3.4 Any direction received from the Engineer shall be documented by the Quality Verification personnel, signed, dated with the time by the directing Engineer.

3.5 The Authorized Personnel Roster, Appendix E, shall be maintained by the Quality Verification personnel and persons not listed as authorized persons for that date and shift, shall be required to leave. All persons listed as authorized personnel shall be accounted for on the Mat prior to beginning the work. This is required due to congestion of work area and the amount of documentation necessary to complete this operation.

4.0 VERIFICATION

4.1 After review of grouting operation documentation, the Engineer shall determine the number and location of verification cores. After this decision is reached, Addendum No. 2 to this procedure shall be written and approved for verification of the repair.

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<p>5.0 <u>APPENDIX</u></p> <p>5.1 Appendix A, Material and Equipment Checklist</p> <p>5.2 Appendix B, Inspection Checklist</p> <p>5.3 Appendix C, Observation of Grout Flow Checklist</p> <p>5.4 Appendix D, Authorized Personnel Roster</p> <p>6.0 <u>ATTACHMENTS</u></p> <p>6.1 A-1</p> <p>6.2 A-2</p>		

J. A. JONES CONSTRUCTION COMPANY
WATERFORD SES UNIT NO. 3

MATERIAL AND EQUIPMENT CHECKLIST

<u>MATERIALS:</u>	<u>ACCEPT</u>	<u>REJECT</u>
200 lbs. washed and dried bagged aggregate	_____	_____
200 gals. of Concresive* 1380 epoxy grouting material	_____	_____
100 ft of 1/4" tubing with Certification	_____	_____
50 lbs Sikadur Set Plug	_____	_____
25 1/4" packing gland fittings for 1/4" tube	_____	_____
25 tubing connectors 1/4" tubing to quick connect	_____	_____
20 quick disconnects	_____	_____
waterless hand cleaner	_____	_____
 <u>EQUIPMENT:</u>		
15 packers with vents and entry port for 2" and 4" diameter grout hole	_____	_____
4 grouting machines with mixing heads	_____	_____
6 flashlights with bulbs and batteries	_____	_____
12 each power outlets connected to one source with equal back up system connected to independent source with tag "DO NOT DISCONNECT WITHOUT NOTIFYING J. A. JONES ENGINEER LOCATED ON PLACEMENT 19"	_____	_____
water supply from two independent sources with tags "DO NOT DISCONNECT WITHOUT NOTIFYING J. A. JONES ENGINEER LOCATED ON PLACEMENT 19"	_____	_____
air source from two independent sources with tags "DO NOT DISCONNECT WITHOUT NOTIFYING J. A. JONES ENGINEER LOCATED ON PLACEMENT 19"	_____	_____
12 0 to 300 PSI pressure gauges with Certification	_____	_____
2 brooms	_____	_____
3 portable light stands with lights	_____	_____
1 air hose to quick disconnect fitting	_____	_____

MATERIAL AND EQUIPMENT CHECKLIST (continued)

barrier rope with AUTHORIZED PERSONNEL ONLY signs

protective glasses for all personnel

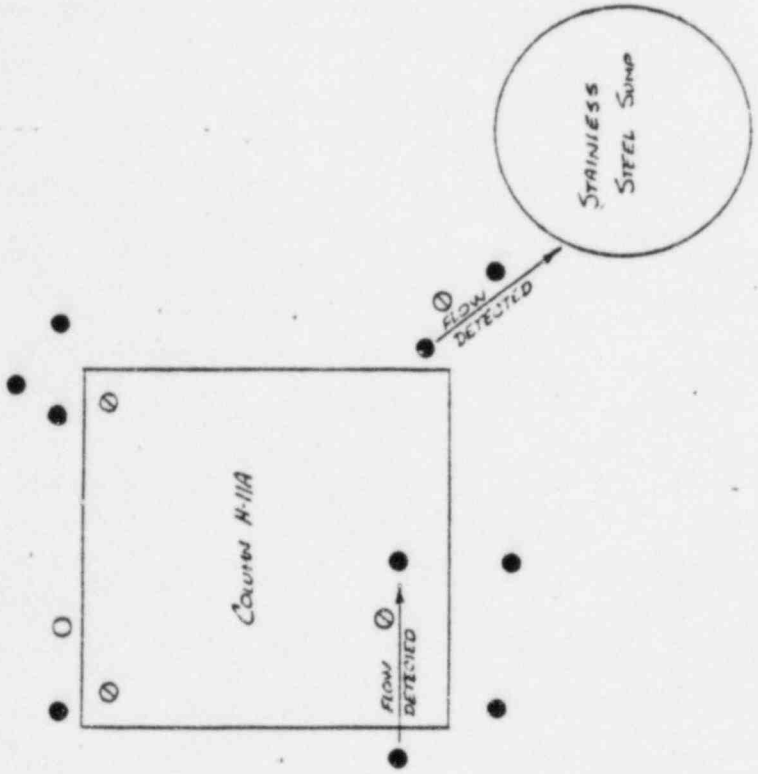
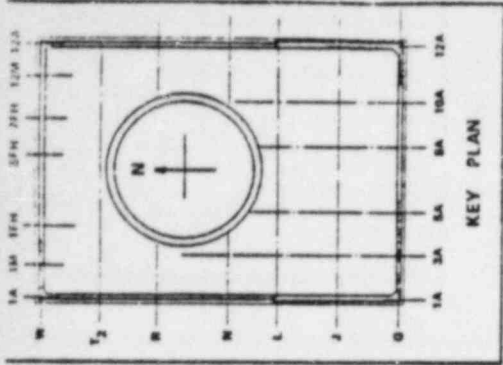
1 gang box with lock

tubing cutter and flaring tool and reamer

INSPECTED BY: _____

TIME/DATE: _____

[illegible]

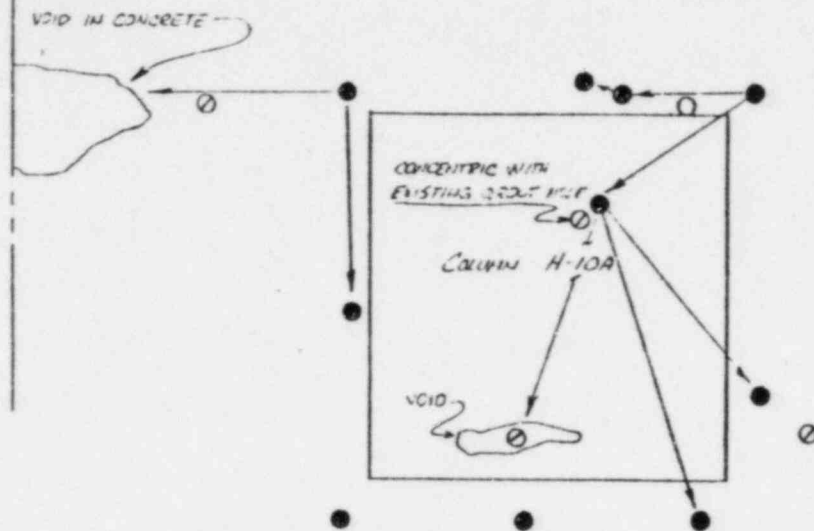


- - GROUT HOLES
- ⊙ - VERIFICATION HOLES
- - ALTERNATE VER. HOLES

J. A. JONES CONST. CO.
WATERFORD UNIT NO. 3

DATE 3-4-11
PROJECT 1 TO 2-30-13

REV	DATE	DESCRIPTION OF REVISION	ENG. NUMBER	SH. / OF
1	3-4-11		18	1



NOTES: ARROWS DENOTE DIRECTION OF FLOW

- - GROUT HOLE
- ① - VERIFICATION HOLE
- - ALTERNATE VER. HOLE

