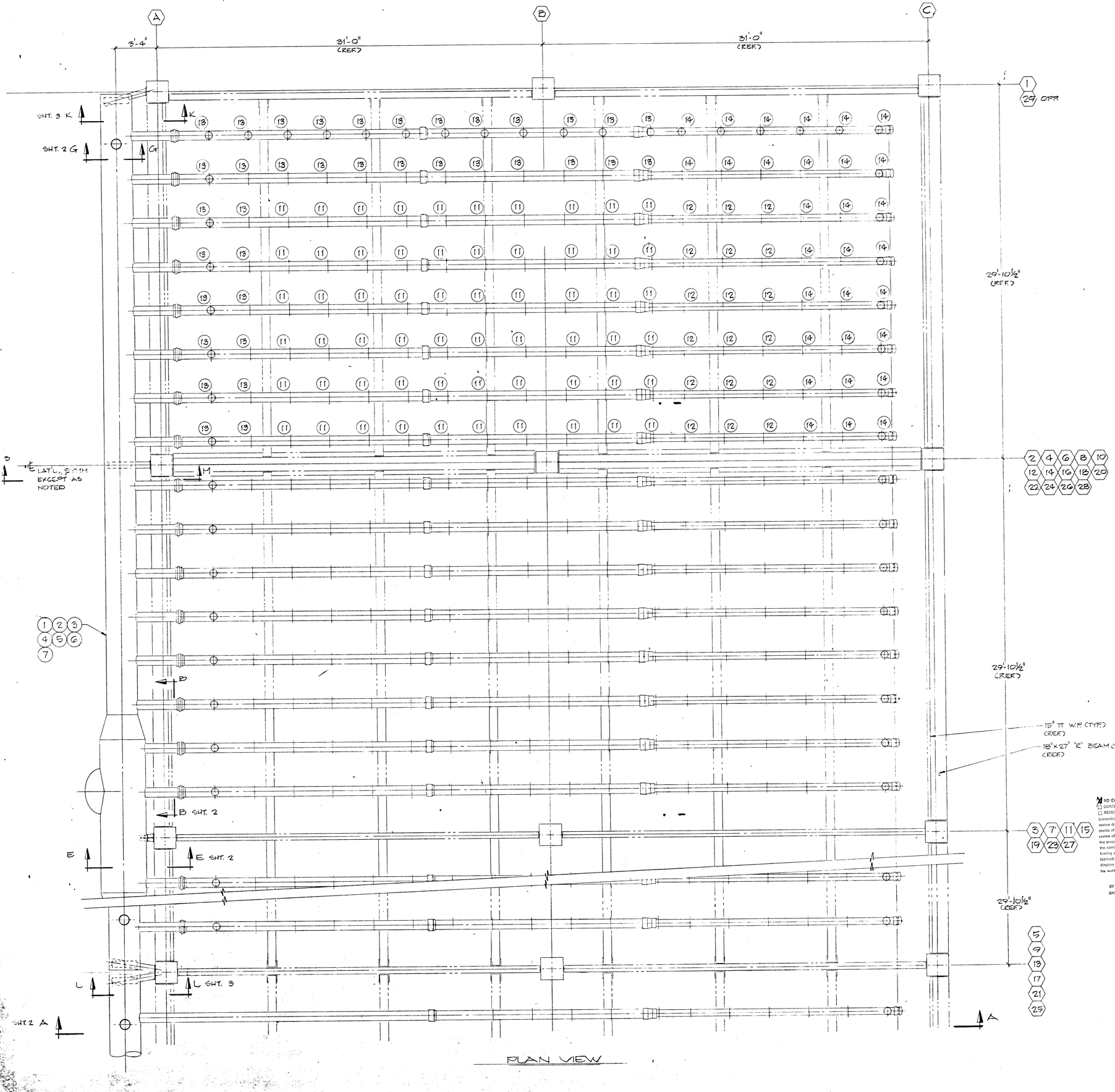
REVISIONS				
LTR.	AUTH.	DESCRIPTION	DATE	APPV'D.
A	ENG	1. SHT. 1, ADDED REF. TO DET. 'F', ON SHT 2. 2. SHT. 2, DELETED DET. 'F.F' ADDED THRUST BLOCK, DET 'F'. 3. REVISED VIEW 'A-A' TO SUIT. ABOVE IAW DESIGN DEVELOPMENTS & CUSTOMER COMMENTS.		
B	[illegible]	1. SHT. 1, DELETED ITEM 44 1/2" THK. ROD. 2. SHT. 1, REVISED LATERALS TO SHOW SLIP TYPE BELL & SPIGOT. 3. SHT 2 & 3, ADDED PROJECT BLOCK WITH BHPG CONT. NO.	10/[illegible]/88	
C		REVISED QTY'S ITEMS 42 & 43	11/[illegible]/88	
D		REVISED LGTH OF ITEM 10.	11/29/88	



PLAN VIEW

BILL OF MATERIALS

ITEM NO.	QTY	DESCRIPTION	MATERIAL	SPEC	STD
1	1	DISTRIBUTION HEADER, GEA P/N 002-095 RISER LOC. 1			
2	1				2
3	1				3
4	1				4
5	1				5
6	1				6
7	1				7
8	224	DISTRIBUTION LATERALS AND DETAILS, GEA P/N 002-096-1			
9	224				-2
10	224				-3
11	1680	SPRAYER ASSEMBLY, GEA P/N 002-100-1, .30 MM NOZZLE			
12	504			-2, .30 MM NOZZLE	
13	1008			-3, .26 MM NOZZLE	
14	840			-4, .26 MM NOZZLE	
15	7	DISTRIBUTION HEADER SUPPORT, GEA P/N 002-102-1			
16	6				-2
17	14				-3
18	1				-4
19	1				-5
20	28				-6
21	56				-7
(2) 22	7	ANCHOR PLATE DETAILS, RISTR. HDR GEA P/N 002-101-1			
(2) 23	22				-2
24					
(6) 25	14	VENT PIPE GEA P/N 002-099			
26					
(6) 27	7	VALVE, BALL 1" NPT THRD SERIES 1000 JAMESBURY "DOUBLE SEAL" BRONZE W/SST, REPUBLIC 87 NO 11-1130TT			
(6) 28	A/R	PIPE, 1" IPS, SCH. 40	GALV'D	A-53	
29					
30					
(6) 31	7	HALF COUPLING, 1" STD SEAMLESS STL, REPUBLIC 87-GALV'D			
(6) 32	14	90° ELBOW, 1" IPS MCMASTER 94 4515K35 - GALV'D			
33					
34	63	SLIDE BEARING "FLUOROGOLD" FC-1010-CG1/4L-5½x6½"			
35	63			-4½x5½"	
36					
(4)(3) 37	A/R	GROUT, CEMENT-3000 PSI MIN. STRENGTH.			
(3) 38	A/R	SEALANT, VULKEM 922 & JOINT BACKING ROD OR TAPE			
(3) 39	30 GAL.	EPOXY BONDER, CONCRETE "RG16" - RESCON TECHNOLOGY CORP.			
40					
41					
42	2,888	CEMENT WAVE, "TOSCHI"			
43	1,344	POLYETHYLENE FILM, 10'x10'x 6 MIL. THK MIN.			
44					

NOTES:

1. ALL WORK ON THIS DWG. DONE BY GEA/WILLIAMS.
2. ANCHOR PLATE (ITEMS 22 & 23) ARE SUPPLIED WITH PRECAST COLUMNS. SEE THOMAS CONCRETE DRAWINGS.
3. INSTALL IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS.
4. ITEMS REFERING TO THIS NOTE ARE SUPPLIED BY INSTALLATION CONTRACTOR.
5.
6. ITEMS REFERING TO THIS NOTE ARE SUPPLIED BY NATKIN/WILLIAMS.
7. QUANTITIES SHOWN IN BILL OF MATERIALS ARE FOR ENTIRE TOWER.
8. ELEVATION AT TOP OF NEW CURB IS 633'-6".

☒ NO EXCEPTIONS TAKEN ☐ REJECTED
☐ CORRECT AS NOTED & SUBMIT CORRECTED COPIES
☐ RECEIVED FOR INFORMATION ONLY

Corrections or comments made on the shop drawings during the review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions selecting fabrication processes and techniques of construction coordinating his work with that of all other trades and performing his work in a safe and satisfactory manner.

GEA/AM-HOLMES JOINT VENTURE GROUP
BY _____
DATE 12/15/88

☐ REJECTED
☒ NO EXCEPTIONS TAKEN
☐ CORRECT AS NOTED & SUBMIT CORRECTED COPIES

WILLIAMS CONSTRUCTION CO.
BY _____
DATE 12/16/88

11 87 016 20

GRAND RIVER DAM AUTHORITY UNIT NO. 1
PROJECT NO. 1187-016-20
CONTRACT 151 - MODIFICATIONS TO THE UNIT NO. 1 COOLING TOWER
CONTRACTOR PROJECT NUMBER GEA 88-213 / W 811
SUBCONTRACTOR PROJECT NUMBER _____
SUBMITTAL NUMBER GEA-024
BHPG DRAWING REFERENCE _____
BHPG SPECIFICATION REFERENCE 2.5.17

CONTRACTORS CERTIFICATION:

Contractor has determined or verified all quantities, dimensions, field construction criteria, material, catalog numbers, and similar data, and has coordinated the information within the submittal and the requirements of the contract documents, and assumes full responsibiblity for so doing.

GEA POWER COOLING SYSTEMS, INC.
By _____ Date 10/26/88

NO.	TITLE	DWG. NO.
2	HEADER NOZZLE SEAL	002-098
1	COOLING TOWER GENERAL ARR.	002-090

REFERENCE DRAWINGS

GRDA UNIT NO.1 COOLING TOWER--CONTRACT 151

GEA W

JOINT VENTURE OF GEA POWER COOLING SYSTEMS, INC. AND WILLIAMS CONSTRUCTION COMPANY

BHPG CONT NO. V110 RH

REV.	BY	DATE	CK.
D	JRG	11/29/88	TGC
C	TH	11/16/88	TGC
B	CM	10/18/88	TGC
A	JRG	9/29/88	TGC

GEA Power Cooling Systems, Inc.

DESIGNED
DRAWN J. GILLIHAN 9-29-88
CHECKED TGC 9/18/88
APPROVED

DISTRIBUTION ARRANGEMENT AND DETAILS

TOLERANCES: SCALE 3/8"=1'-0" OR NOTED | PROPOSAL/CONTRACT NO. 88-213 | DESIGNATION | DRAWING NO. SHT. 1 OF 3 002-094 | REV. D

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