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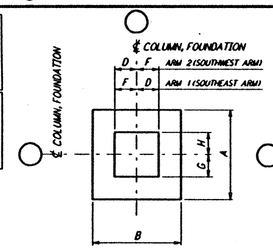


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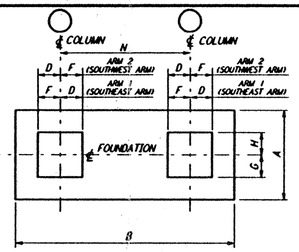
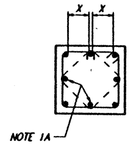


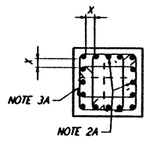

PLAN - TYPE B

4 - BARS
TYPE A

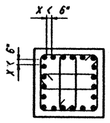



8 - BARS
TYPE B

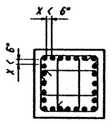
12 - BARS
TYPE C




16 - BARS
TYPE D




20 - BARS
TYPE E




24 - BARS
TYPE F

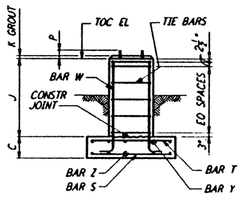
TIE ARRANGEMENT TYPE

**TIE REINFORCEMENT NOTES:**

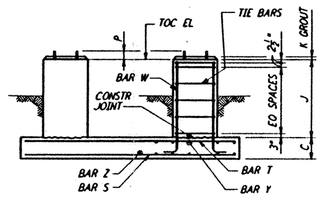
1A. THESE BARS MUST BE TIED AS SHOWN BY DASHED LINES WHEN X DISTANCE IS OVER 6 INCHES.
2A. THESE BARS NEED NOT BE TIED WHEN X DISTANCE IS 6 INCHES OR LESS.
3A. ALTERNATE 90° HOOKS IN COLUMNS.

**NOTES:**

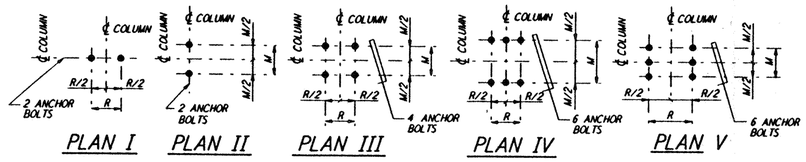
1. CONSTRUCTION SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE GENERAL NOTES ON DRAWING LA-S-001.
2. THE BAR SPACING IS BASED ON CENTER TO CENTER OF TIE SET.
3. FOR ANCHOR BOLT DETAILS SEE DRAWING LA-S-003.
4. FOUNDATION SCHEDULE SHOWN IS FOR ONE (1) BUILDING ONLY. TWO (2) BUILDINGS REQUIRED.




ELEV - TYPE 1



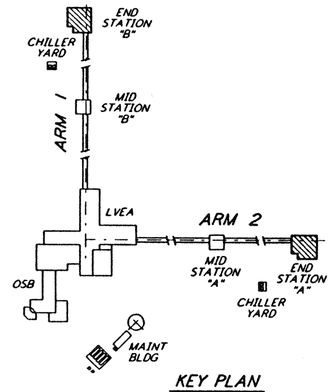

ELEV - TYPE 2




PLAN I | PLAN II | PLAN III | PLAN IV | PLAN V

ANCHOR BOLT PLAN

| FOUNDATION NO OF FDNS REQD | FOUNDATION LOCATION | TOP OF CONC EL | FOUNDATION TYPE PLAN | FOUNDATION TYPE ELEV | DIMENSIONS A | B | C | D | F | G | H | J | K | M | R | N | ANCHOR BOLTS PER PIER ANCHOR BOLT PLAN | TYPE | NO PER PIER | SIZE Ø | L | P | REINFORCING PER FOUNDATION BAR S NO | BAR S SIZE | BAR Z NO | BAR Z SIZE | BAR T NO | BAR T SIZE | BAR Y NO | BAR Y SIZE | BAR W NO | BAR W SIZE | TIE BAR TYPE | TIE BAR SIZE | TIE BAR NO REQD | CONC CY | FDN LOC PLAN | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| END STATION STRUCTURES (FOR ARM 1 & ARM 2) SEE NOTE 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | C3, C4 | 100'-0" | A | 1 | 3'-6" | 3'-6" | 1'-0" | 10" | 10" | 10" | 10" | 1'-8" | 1" | 7" | 7" | — | III | 2 | 4 | 1" | 1'-4" | 4" | 5 | #4 | 5 | #4 | — | — | — | — | 8 | #5 | B | #4 | 4 | 1.3 | LA-S-301 | |
| 1 | D4 | 100'-0" | A | 1 | 5'-0" | 5'-0" | 1'-0" | 10" | 10" | 1'-3½" | 10" | 1'-8" | 1" | 7" | 7" | — | III | 2 | 4 | 1" | 1'-4" | 4" | 7 | #4 | 7 | #4 | 7 | #4 | 7 | #4 | 8 | #6 | B | #4 | 4 | 1.2 | LA-S-301 | |
| 1 | D5 | 100'-0" | A | 1 | 5'-0" | 5'-0" | 1'-0" | 10" | 1'-3½" | 1'-3½" | 10" | 1'-8" | 1" | 7" | 7" | — | III | 2 | 4 | 1" | 1'-4" | 4" | 7 | #4 | 7 | #4 | 7 | #4 | 7 | #4 | 8 | #6 | B | #4 | 4 | 1.2 | LA-S-301 | |
| 2 | C1, C2 | 100'-0" | A | 1 | 15'-0" | 8'-0" | 2'-0" | 1'-3½" | 12" | 1'-3½" | 12" | 4'-0" | 1" | 7" | 7" | — | III | 2 | 4 | 1" | 1'-4" | 4" | 18 | #6 | 10 | #6 | 18 | #6 | 10 | #6 | 8 | #7 | B | #4 | 6 | 9.7 | LA-S-301 | |
| 1 | C5 | 100'-0" | A | 1 | 15'-0" | 8'-0" | 2'-0" | 12" | 1'-3½" | 12" | 12" | 4'-0" | 1" | 7" | 7" | — | III | 2 | 4 | 1" | 1'-4" | 4" | 18 | #6 | 10 | #6 | 18 | #6 | 10 | #6 | 8 | #6 | B | #4 | 6 | 9.7 | LA-S-301 | |
| 1 | D2 | 100'-0" | B | 2 | 6'-0" | 26'-0" | 2'-0" | 1'-3½" | 12" | 1'- 3½" | 12" | 1'-8" | 1" | 7" | 7" | 20'-0" | III | 2 | 4 | 1" | 1'-4" | 4" | 8 | #6 | 31 | #6 | 8 | #6 | 31 | #6 | 8 | #7 | B | #4 | 4 | 12.2 | LA-S-301 | |
| | D3 | 100'-0" | | | | | | 12" | 12" | 1'-3½" | 12" | 1'-8" | 1" | 7" | 7" | | III | 2 | 4 | 1" | 1'-4" | 4" | | | | | | | | | 8 | #6 | B | #4 | 4 | | | |
| — | A2, A3, B1, B2, B3, B5 | 100'-0" | — | — | — | — | — | — | — | — | — | — | 1" | 7" | 7" | — | III | 2 | 4 | 1" | 1'-4" | 4" | — | — | — | — | — | — | — | — | — | — | — | — | — | — | LA-S-301 | FOR ANCHOR BOLTS ONLY |
| — | A1, A4, A5, B4 | 100'-0" | — | — | — | — | — | — | — | — | — | — | 1" | 7" | 7" | — | III | 1 | 4 | 1" | 1'-4" | 4" | — | — | — | — | — | — | — | — | — | — | — | — | — | — | LA-S-301 | FOR ANCHOR BOLTS ONLY |




KEY PLAN

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Mon Jul 22 18:41:47 1996 S3-V18B2 J:\PLOTS\QUEUES\V18B2\ST401.PRF

REFERENCES

| DRAWING NO. | DESCRIPTION |
|---|---|

REVISIONS

| NO. | DATE | BY | CHKD | ENGR | PROJ | DESCRIPTION |
|---|---|---|---|---|---|---|
| B | 7-24-96 | MCS | DDM | BP | TDM | ISSUED FOR BID |
| A | 6-14-96 | MCS | DDM | BP | TDM | FINAL DESIGN REVIEW |

| | |
|---|---|
| DRAWN | MCS |
| CHECKED | |
| ENGINEER | |
| PROJ | |

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
GRAVITATIONAL-WAVE OBSERVATORY
SITE NO. 2 - LIVINGSTON, LOUISIANA

TITLE: STRUCTURAL END STATIONS "A" & "B" FOUNDATION SCHEDULE AND DETAILS

SCALE: NONE | CONTRACT NUMBER: PP150969 | PROJECT NUMBER: 8094

SHEET NUMBER: LA-S-401 | REVISIONS: B

LIGO-D960953-B-O

LIGOLAF.BDR