





- conductor of 4/C #10 cable to conduit system in adjacent ballbox.
- Spool light housing shall be grounded by means of bonding the 4th conductor of 4/C #10 cable to conduit system in ballbox mounted on structure wall.
- Pier light housing shall be grounded by means of bonding the 3rd conductor of 4/C #10 cable to conduit system in ballbox mounted on structure wall.
- The Schematic Conduit Diagram does not purport to show all ball or terminal boxes that may be required. The Contractor shall furnish and install any additional boxes required for proper installation of cables.
- The Schematic Conduit Diagram does not purport to show all ball or terminal boxes that may be required. The Contractor shall furnish and install any additional boxes required for proper installation of cables.
- The Schematic Conduit Diagram does not purport to show all ball or terminal boxes that may be required. The Contractor shall furnish and install any additional boxes required for proper installation of cables.

to each working date.  
 Provide grounded rods in junction well adjacent

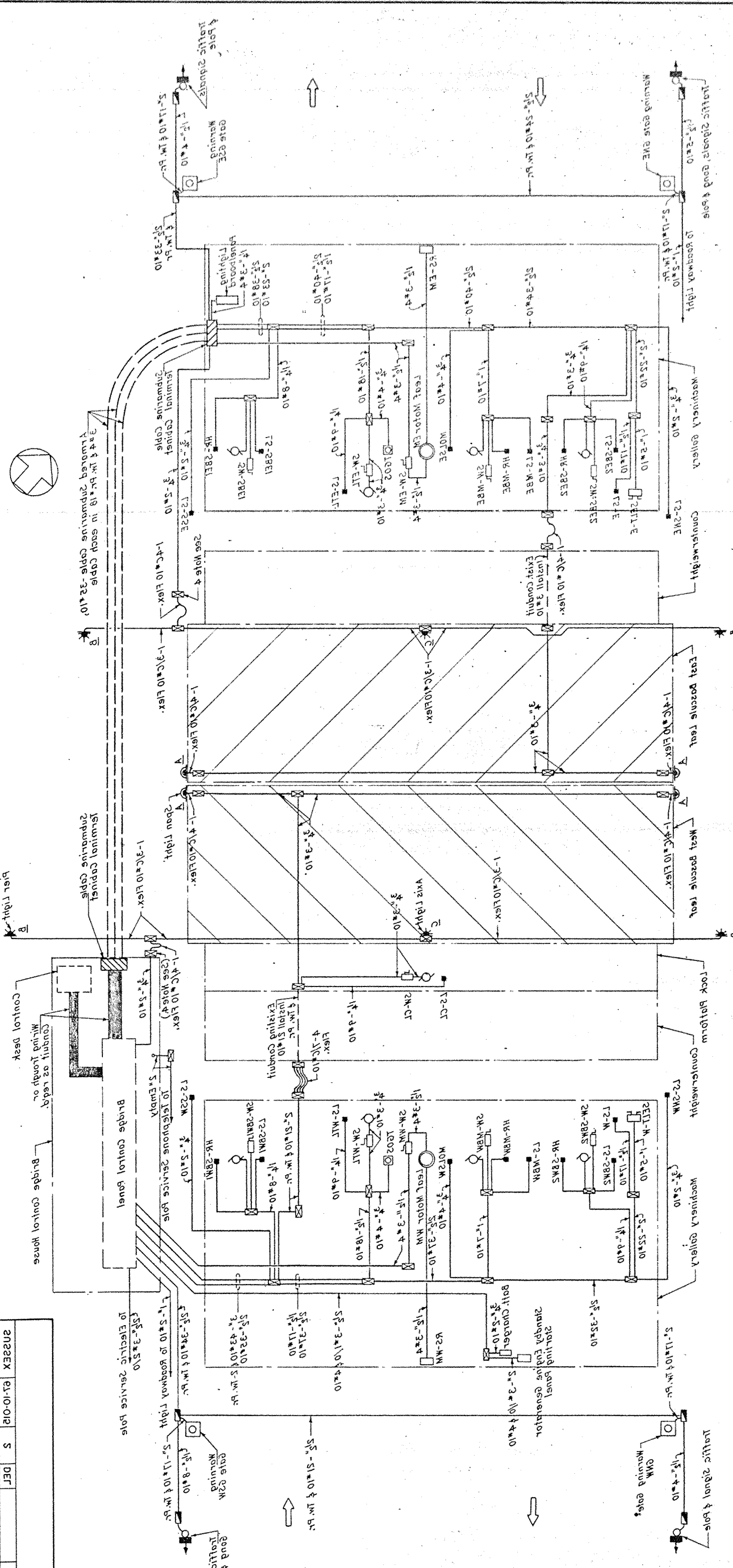
REFERENCE NOTES:  
 1. For details for navigation lights, see sheet 23.  
 2. For connections of lead pipes, see sheet 20.

- LEGEND
- - Limb Switch
  - - Disconnect Switch
  - - Junction Well of Structure
  - - H.D. Galv. Cl. Ballbox or Terminal Box

BRIDGE ENGINEER  
 APPROVED BY:  
 SCALE  
 NONE  
 DATE  
 J. K. A. S.  
 D. S. V. S.  
 DEPARTMENT OF HIGHWAYS & TRANSPORTATION  
 DELAWARE

SCHEMATIC CONDUIT DIAGRAM  
 OVER LEWES & REHOBOTH CANAL  
 SAVANNAH ROAD BRIDGE

NO.	REVISIONS	BY	DATE

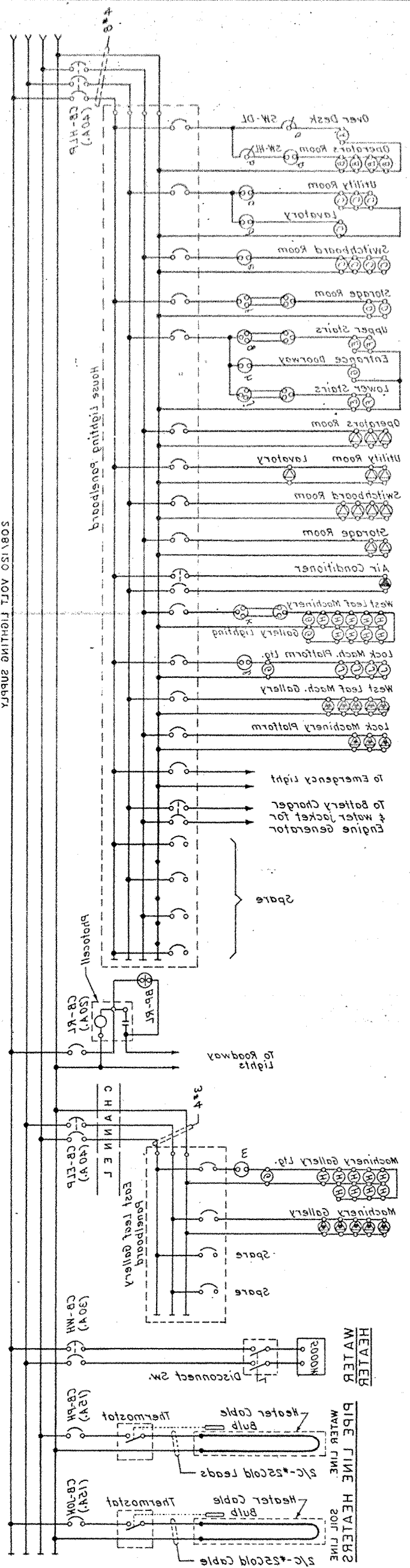


CONTRACT NO.	2022EX 01-10-012
DATE	5 DEF
NO. SHEETS	28
SHEET NO.	28





SERVICE LIGHTING



NO.	REVISIONS	BY	DATE

C.H.B.H.  
L.K.A.S.  
D.H.B.H.

HOME SCALE  
APPROVED BY:

BRIDGE ENGINEER

DEPARTMENT OF HIGHWAYS & TRANSPORTATION  
DELAWARE

DIVISION OF HIGHWAYS

OVER LEWES & REHOBOTH CANAL  
SAVANNAH ROAD BRIDGE

NOTE:  
See Sheet No. 80.  
S. for schedule of lighting equipment  
and list of symbols see Sheet No. 21.  
For general notes for electrical work

TRAFFIC SIGNALS

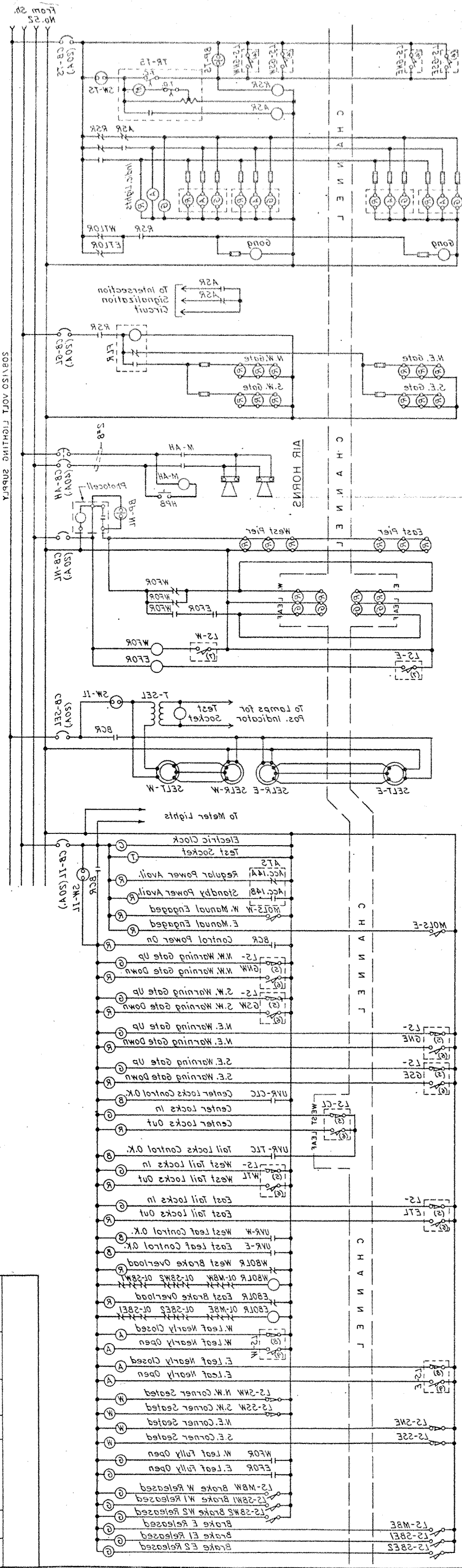
Note: All Green 2 Amber

WARNING LIGHTS

LIGHTS AND SIGNALS NAVIGATION

INDICATORS POSITION

INDICATING LIGHTS



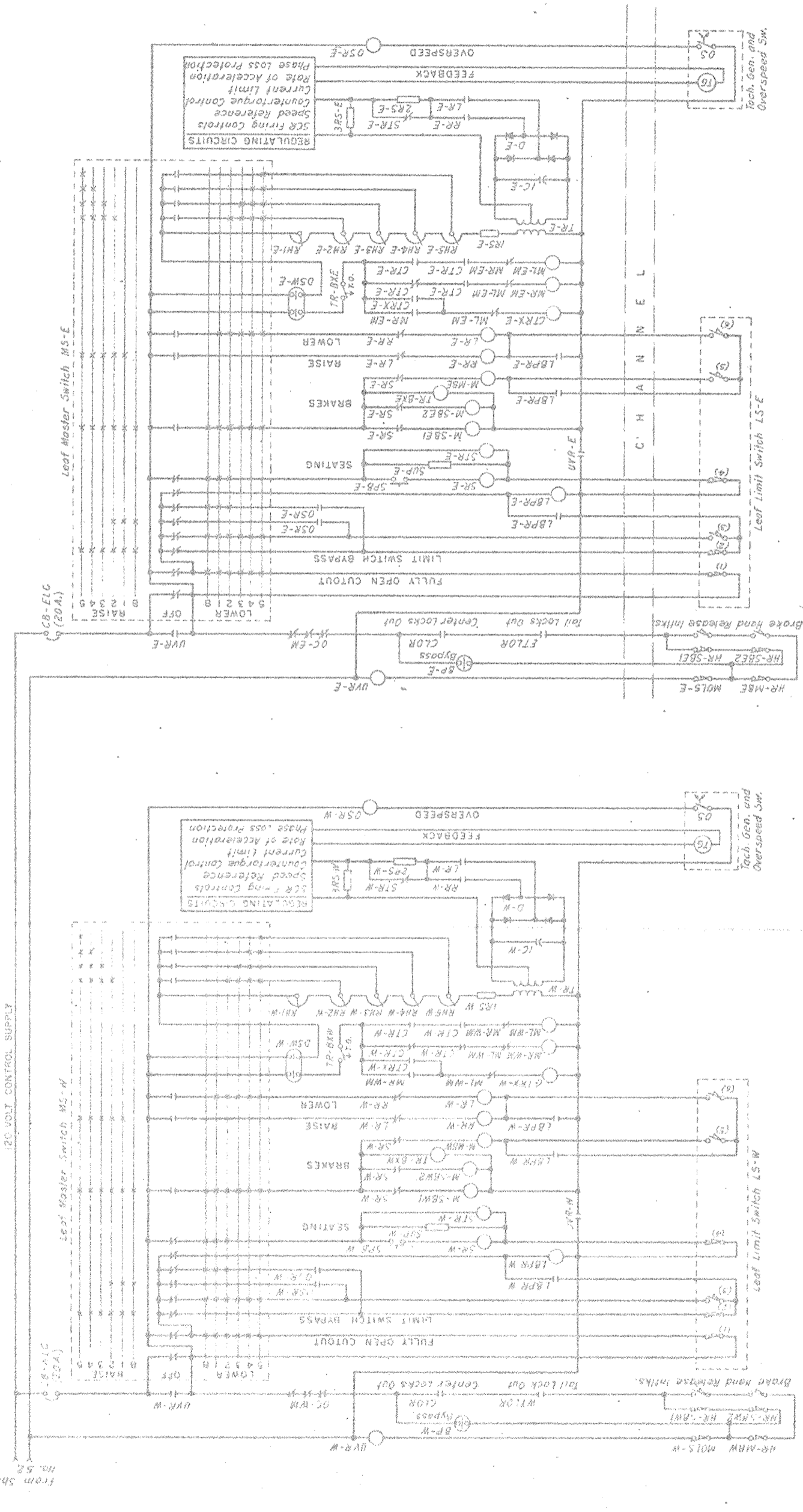
2022EX	91-10-012	S	DEL	22
COMPLY	CONTRACT	REV. NO.	DATE	NO. SHEET

NOTE:  
 For General Notes for Electrical Work  
 and List of Symbols, see Sheet No. 51

DELAWARE  
 DEPARTMENT OF HIGHWAYS & TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 SAVANNAH ROAD BRIDGE  
 OVER LEWES & REHOBOTH CANAL  
 WIRING DIAGRAM  
 LEAF CONTROLS

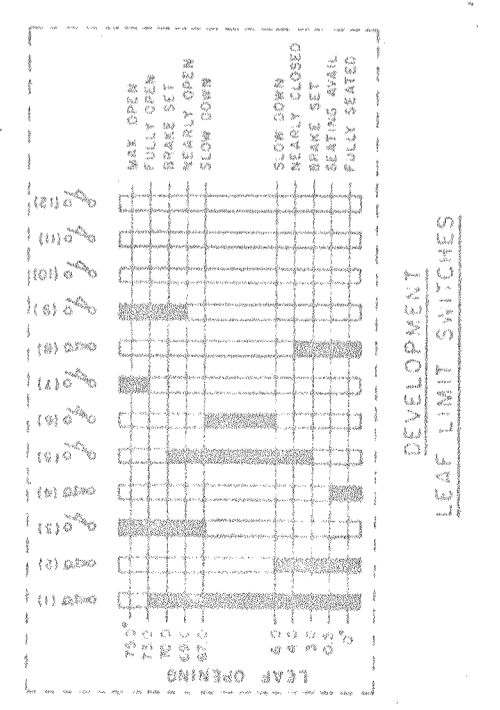
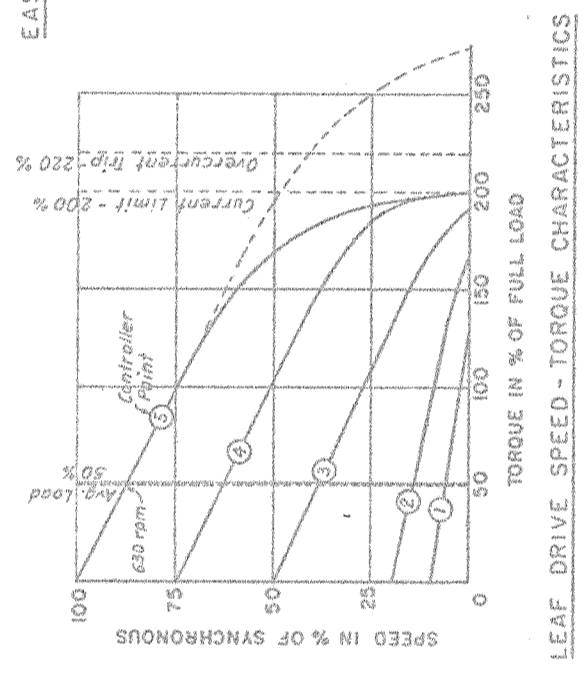
SCALE: NONE  
 APPROVED BY: D.H.B.H. T.K.A.S. C.H.B.H.  
 BRIDGE ENGINEER

NO.	REVISIONS	DATE



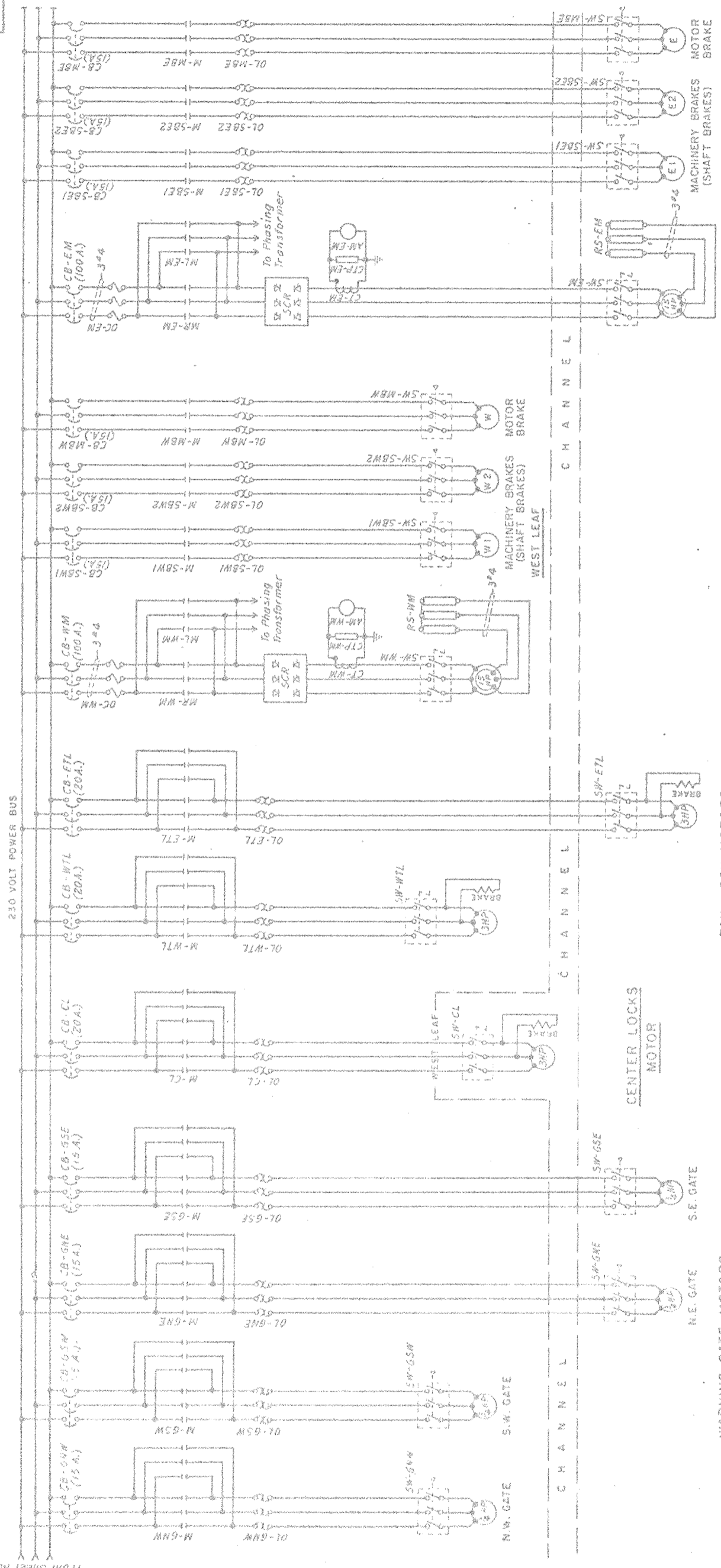
EAST LEAF

WEST LEAF



DEVELOPMENT  
 LEAF LIMIT SWITCHES

COUNTRY	CONTRACT	DATE	SCALE	APPROVED BY
SUSSEX	67-10-015	2 DEL	54	



**LEAF MOTORS AND BRAKES**

**WARNING GATE MOTORS**

**TAIL LOCK MOTORS**

**CENTER LOCKS MOTOR**

**EAST LEAF**

**WEST LEAF**

**CHANNEL**

**NOTE:**  
For General Notes for Electrical Work and List of Symbols, see Sheet No. 51.

SHEET 2

**DELAWARE**  
DEPARTMENT OF HIGHWAYS & TRANSPORTATION  
DIVISION OF HIGHWAYS

**SAVANNAH ROAD BRIDGE**  
OVER LEWES & REHOBOTH CANAL  
WIRING DIAGRAM  
MOTORS AND BRAKES

APPROVED BY:  
D.H.B.H.  
T.K.A.S.  
& H.B.H.

SCALE: NONE

BRIDGE ENGINEER

NO.	REVISIONS	BY	DATE

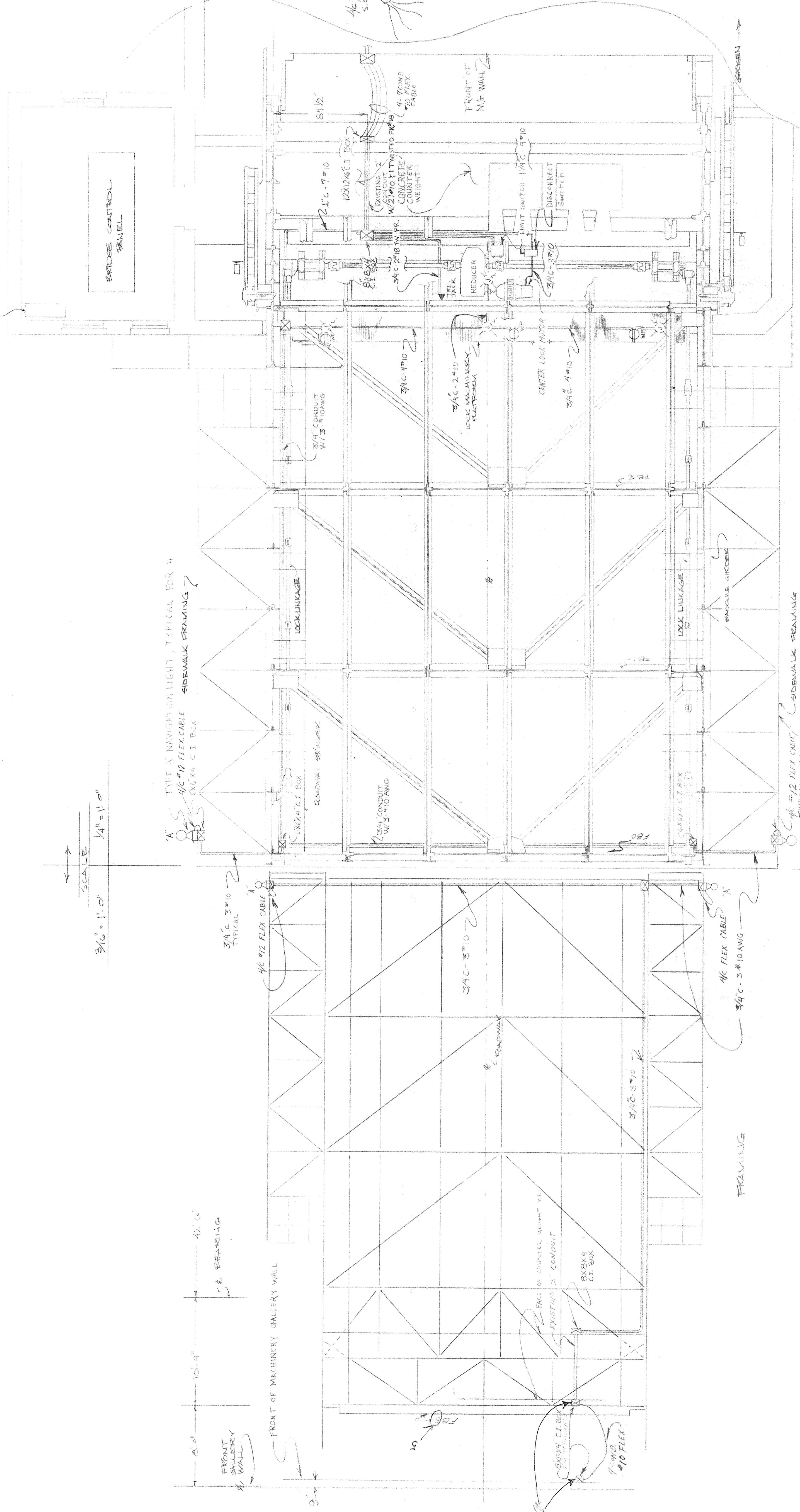
From Sheet No. 52







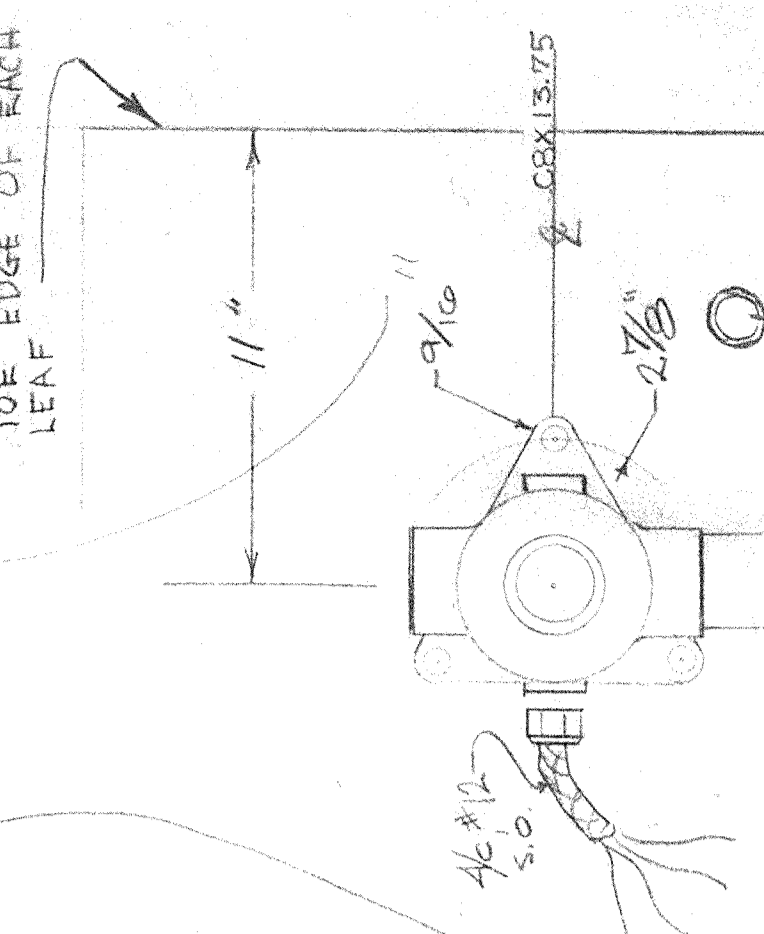
SILICONES CABLE TERMINAL CABINET



SCALE  
 3/16" = 1'-0"  
 1/4" = 1'-0"

'A' TYPE A NAVIGATION LIGHT, TYPICAL FOR 4  
 1/2" X 1/2" FLEX CABLE  
 6X6X4 CI BOX

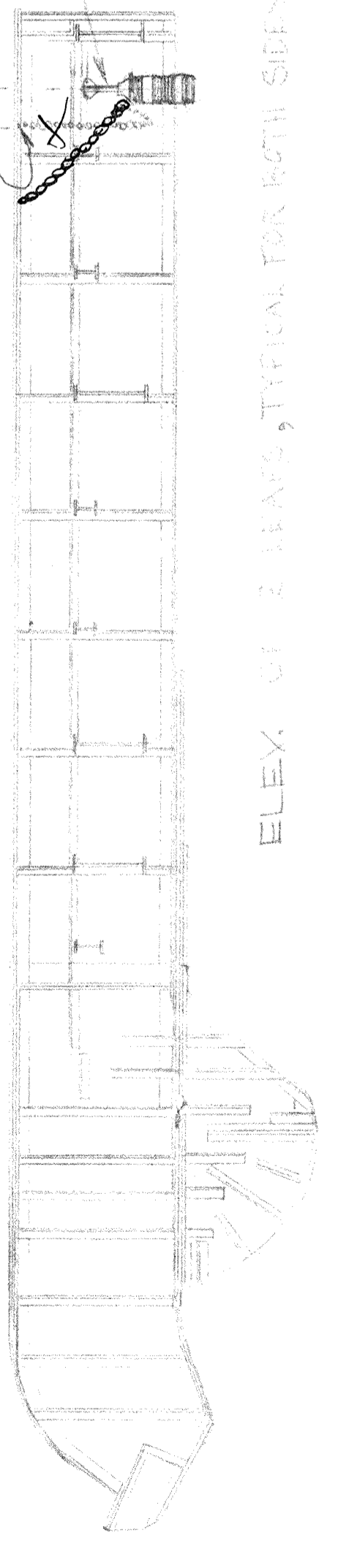
FRONT OF MACHINERY GALLERY WALL  
 42'-6"  
 FRONT GALLERY WALL



NAVIGATIONAL LIGHT DETAILS  
 N.T.S.

WEST LEAF

EAST LEAF



MOUNT NAVIGATIONAL LIGHT ON  
 5" OF 1" GALV BEAM OF SIDE WALK (CBX13.75)  
 SEE BOLT PATTERN @ RIGHT

CAST IRON JUNCTION OR TERMINAL BOX

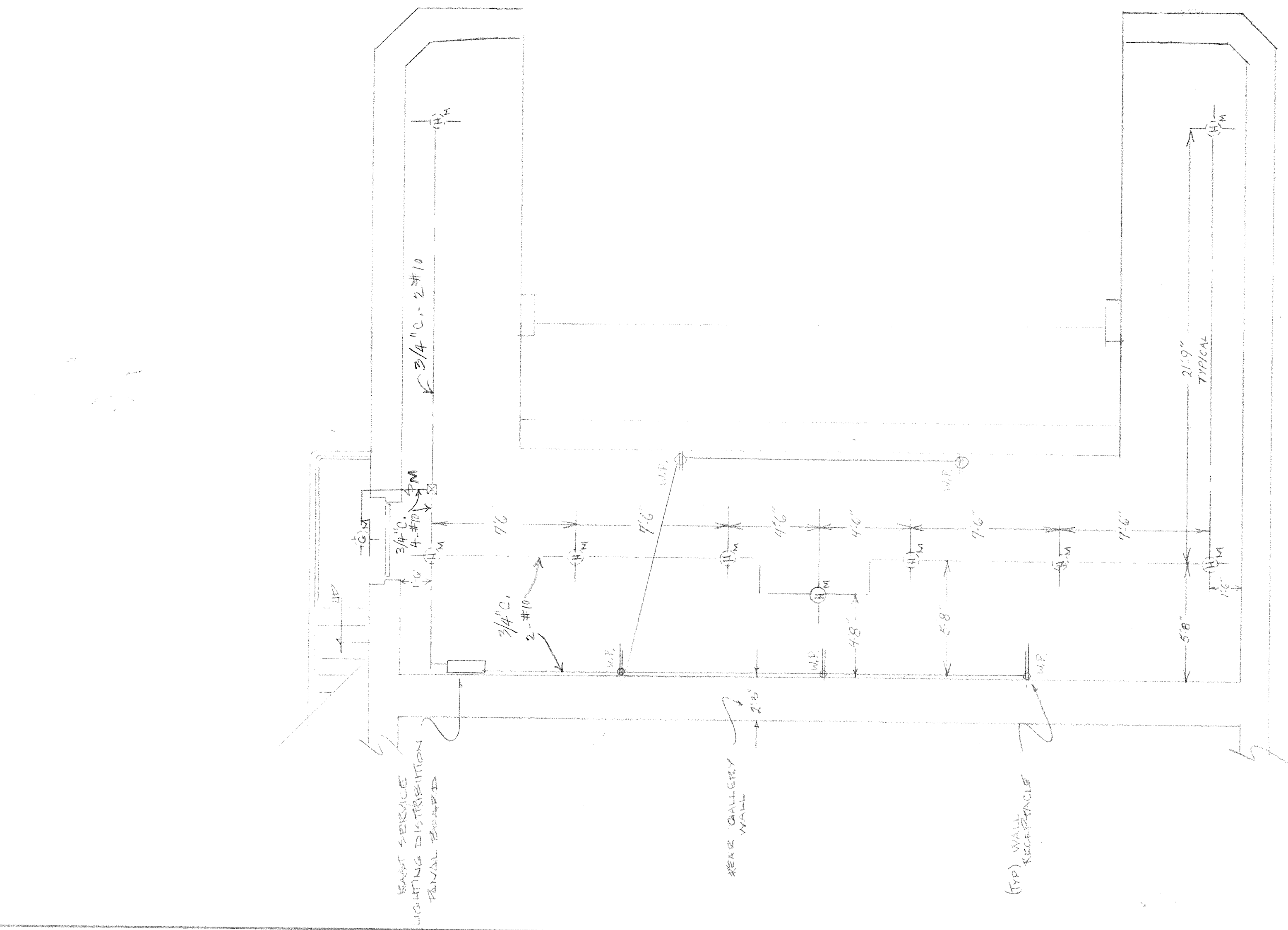
NOTES:  
 1. ALL BOXES ARE 6X6X4 UNLESS MARKED OTHERWISE

2. CONDUIT RIMS SHALL BE INSTALLED ON THE SIDES OF BRASS GIRDERS  
 REUSE AND RESUBMIT TO APPROVED CHECK MACHINERY EQUIP.

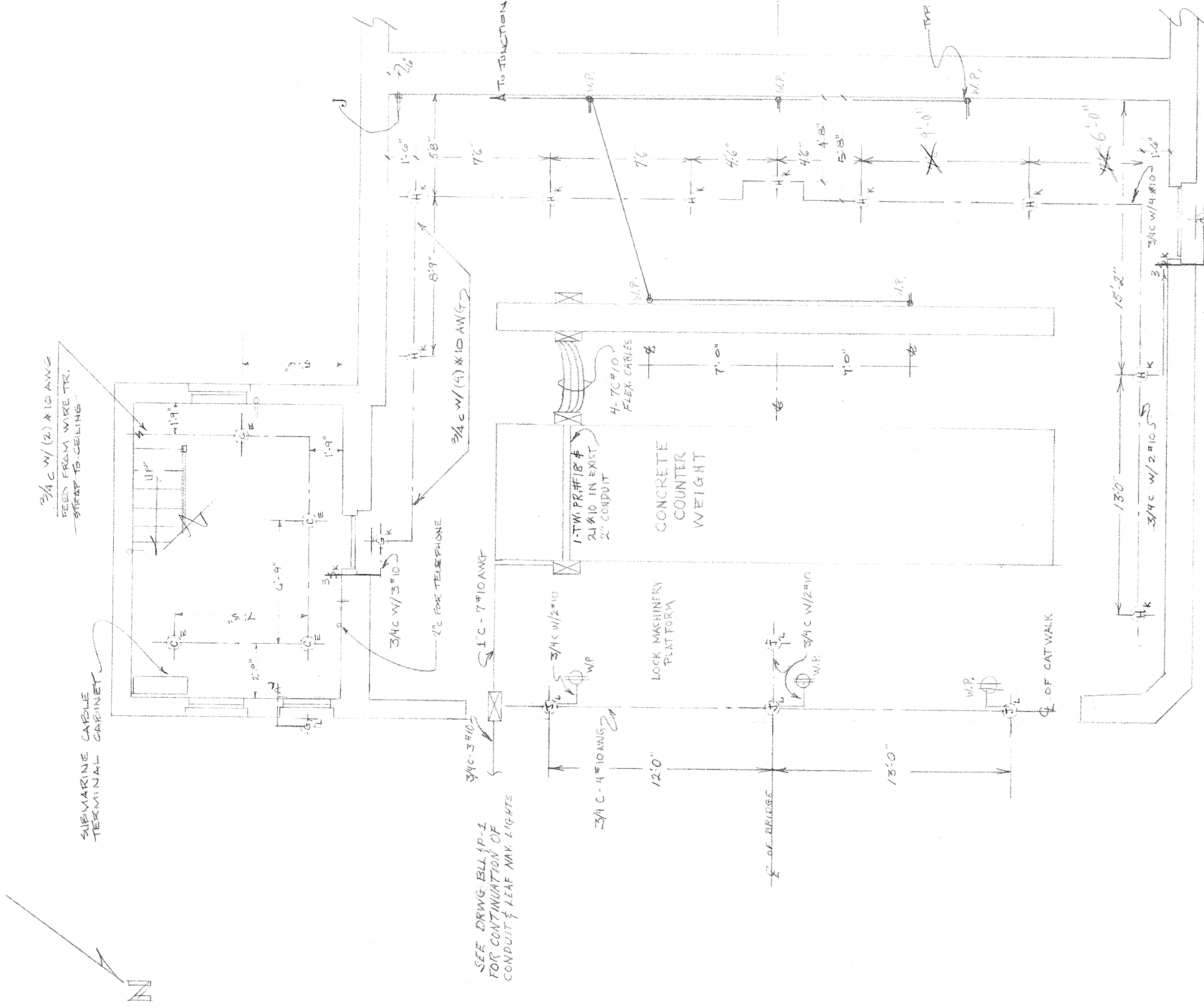
NOT APPROVED  APPROVED AS NOTED   
 Checking is only for conformance with the information given in the Contract Documents. Contractor is responsible for dimensions, materials, workmanship, and safety to the satisfaction of the Engineer. The Engineer's approval does not constitute a warranty or a guarantee of the construction or the performance of the work.

SAVANNAH ROAD BRIDGE  
 LEWIS I. DEBEL  
 SCALE: AS LISTED  
 DATE: 1/21/83  
 PASCALE LEAF LIGHTING & POWER  
 TUDOR Z ELEC  
 DRAWING NUMBER  
 OFFICE COPY

HARDESTY & HANOVER  
 CONSULTING ENGINEERS  
 W. B. Burgess  
 MAY 2, 1983



= EAST =  
MACHINERY PLATFORM



= WEST =  
MACHINERY PLATFORM

REVISE AND RESUBMIT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is only for conformance with the design concept of the Project and compliance with the information given on the drawings. It is not intended to constitute a warranty or a guarantee of the work. The contractor shall be responsible for the construction of the work at all times.  
**HARDESTY & HANOVER**  
 CONSULTING ENGINEERS  
*W. B. Burgard*  
 APR 5 1983

OFFICE COPY

CIRCUIT LINE	1-1/2"	SURFACE MOUNT LIGHT
	1-1/2"	CEILING MOUNT LIGHT - CONCEALED IN SLAB
	1-1/2"	WALL MOUNT LIGHT
	1-1/2"	EMERGENCY LIGHT
<b>SAVANNAH BRIDGE</b>		
<b>LEVES, DEL</b>		
SCALE AS NOTED	DRAWN BY	APPROVED BY
DATE 7/6/82		
<b>EAST &amp; WEST MACHINERY PLATFORM LIGHTING LAYOUT</b>		
<b>TUDOR ELEC</b>	<b>NOVEMBER</b>	<b>DRAWING NUMBER 81-L-1</b>

PLAN VIEW OF MACHINE GALLEY WEST SIEK

EXIST TIEZ SIMILAR / REVERSE  
20' 1 1/2"

FACE OF FRONT GALLERY WALL

TACHY METER & SUPPORT  
M/S 39 4120 F21

REDUCTION GEAR SUPPORT

MACHINE BRAKE SUPPORT

15' 10 1/2"

BRAKE & LEVER STAND  
M/S 40 21 25 F21

BRIDGE

MACHINE BRAKE

FLEX CABLES

HAND BRAKE LIMIT SWITCH

TACHY METER SUPPORT  
M/S 39

1/2" OF BRIDGE

1 1/2"

2" OF BRIDGE LEVEL SUPPORT

8' 0"

NOTE: CONTROL BOX NOT SHOWN  
SEE LEVEL 2 WEN 2

SEE DRAWING ELEV 416 FOR LIMIT SWITCH POSITION TRANSMITTER

FLEX CABLE

NOTE: 1" CONDUIT & MOTOR BRAKE TUNCTION BOX NOT SHOWN  
SEE ELEV 416

FLEX CONDUIT

16' 1 1/2"

1' 6" x 9 3/4"

REVISE AND RESUBMIT  APPROVED

NOT APPROVED  APPROVED AS NOTED

Checking is only for conformance with the design concept in the Contract Documents. Contractor is responsible for the design and construction of the work shown on this drawing. The Engineer is not responsible for the design, construction, or operation of the work shown on this drawing.

HARDESTY & HANOVER  
CONSULTING ENGINEERS

M.B. Berglund

APR 5 1983

OFFICE COPY

SAVANNAH ROAD BRIDGE	LEVER, DEL
SCALE: AS NOTED	DATE: 1/15/83
APPROVED BY:	DRAWN BY: M.B. BERGLUND
SCALED ELEC. W/ MACHINERY 2%	
TUDOR 2 ELEC. POWER	DRAWING NUMBER: ELEV # 4

1/2" FLEX METAL HOSE  
W/ 1/2" 1/4" ANGLE

8 X 8 X 4 DIM. 1/2" 1/4" BOX

1/2" FLEX METAL HOSE  
W/ 5/8" 1/4" ANGLE

1/2" FLEX METAL HOSE  
W/ 22# 1/4" ANGLE

POSITION TRANSMITTER

W/ 5/8" 1/4" ANGLE

W/ 22# 1/4" ANGLE

PLAN VIEW

SECTION A-A

SECTION A-A



REVISION AND RESUBMIT  APPROVED AS NOTED

Checking is only for conformance with the design concept of the drawing. It is not intended to constitute an approval of the design or to be a substitute for the designer's responsibility. The designer is responsible for the accuracy of the information provided and for the safety of the work. The engineer is responsible for the safety of the work and for the accuracy of the information provided. The engineer is not responsible for the safety of the work or for the accuracy of the information provided.

HARDESTY & HANOVER  
CONSULTING ENGINEERS

M.B. Bergeron  
APR 5 1983

OFFICE COPY



2" ALUMINUM CHANNEL WITH  
BRACKET FOR CONDUIT

2" ALL CONDUIT WITH  
CONDUIT BRACKET

1/2" DIA TAPPED HOLE IN  
BEAM (SEE DETAIL A)

POST SUPPORT COLUMN  
(NOTE-B)

2" DIA 1/2" DIA (1/2")  
(SEE DETAIL A)

DRILL 1/2" HOLE IN  
SUPPORT COLUMN

WINDOW FRAME

2" X 1/2" INCH LUG

1/2" FIBER BUSHING  
(DRILL 1/2" HOLE IN BASE PLATE  
(DETAIL B))

(1) 1/2" DIA 1/2" IN 1/2" CONDUIT

(A) #10 TO WOOD'S  
(B) #10 TO LIGHTS AB B  
(C) #10 TO BUSH LIGHT  
L21 # 8 A1K

GROUNDING AND PROTECTION LIGHTING  
FOR ALL ELECTRICAL AND CONDUIT

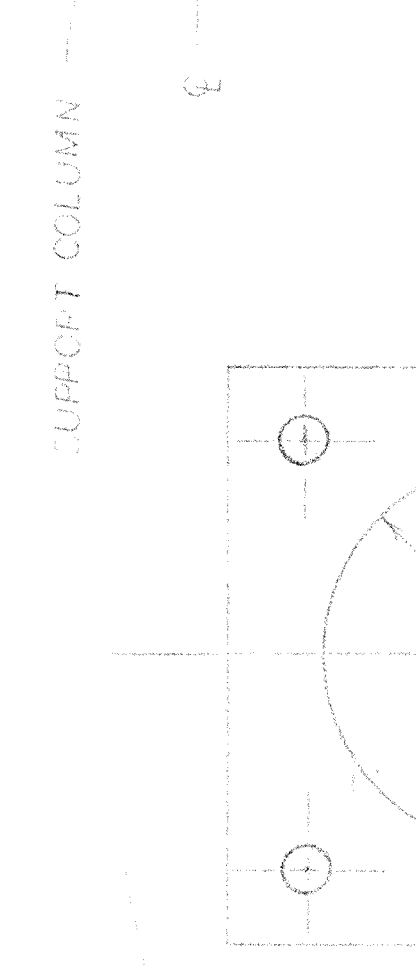
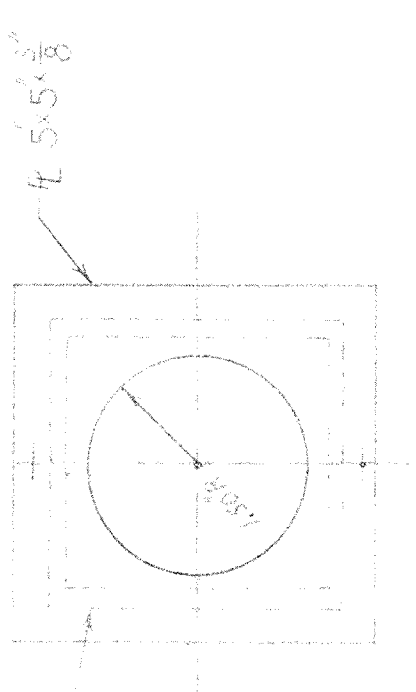
1/2" DIA 1/2" IN 1/2" BOX  
W/COVER CASSET

1/2" DIA 1/2" IN 1/2" IN BEAM  
(SEE DETAIL A AS APPROPRIATE)

BRACKET (LENGTH) FLEXIBLE METAL  
CONDUIT (1/2" INCH)

1/2" INCH DIA 1/2" IN 1/2" FLEXIBLE METAL  
CONDUIT (CUT TO FIT)

1/2" X 1/2" X 1/2" FLEXIBLE METAL  
CONDUIT (CUT TO FIT)

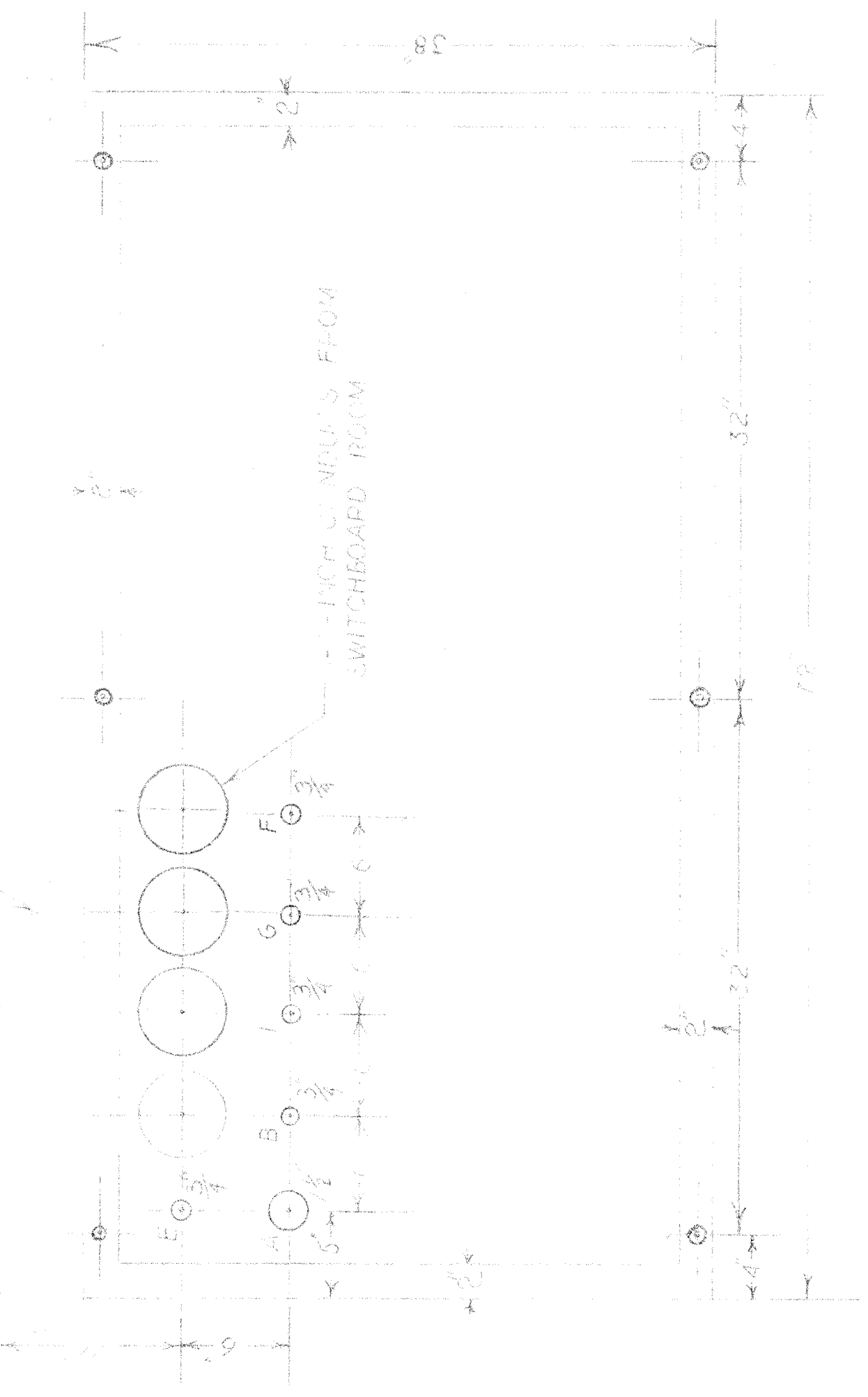


**NOTES**

- (A) DRILL TWO 1/2 INCH HOLES IN L1 CONDUIT  
(SEE FACTORY MOUNTING DETAIL SHEET NC.60)
- (B) STRUCTURAL RAILWAY-NC NFC COFF. CN THIS  
WIRING METHOD IS RECOGNIZED AS AN  
APPROVED METHOD BY AMERICAN ELECTRICIANS  
HANDBOOK NO. 6 (PART II, 5-13 SEC. 3C)
- (C) ALL BOLTS SHALL BE 2" X 20 X 1" STAINLESS STEEL

DETAIL A A  
SCALE 1/8" = 1" FOOT

WALL CONTROL ROOM



DETAIL B B  
SCALE 1/8" = 1" FOOT

**NOTES**  
ALL DIMENSIONS TO BE ROUNDED TOGETHER  
WITH ROUND BUSHINGS (USE NO. 6-CU)

REVISE AND RESUBMIT  APPROVED AS NOTED

Checking is only for conformance with the design, except  
in the Control Roomwork. Contractor is responsible for  
the accuracy of the drawings and for the proper  
interpretation of the drawings. The contractor shall  
be responsible for the proper interpretation of the  
drawings and for the proper interpretation of the  
drawings.

HARDISTY & HANOVER  
CONSULTING ENGINEERS  
11. 8. 1988 MAR 5 1983

SAVANNAH ROAD BRIDGE

SCALE: AS SHOWN

DATE: 11/15/82

APPROVED BY: [Signature]

DRAWN BY: [Signature]

TUDOR ELECT. Co. POWER

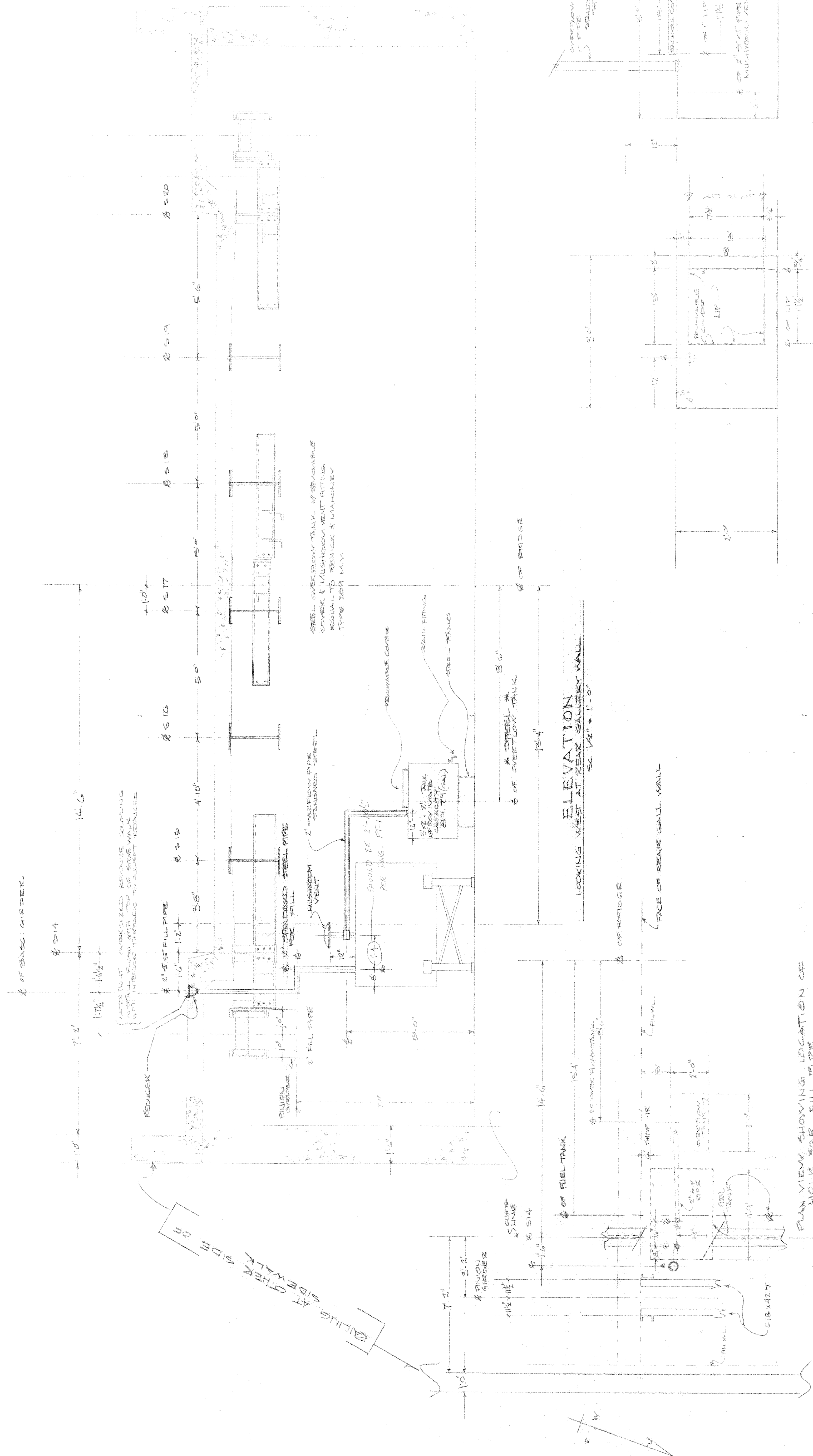
CONTROL ROOM DETAILS

DRAWING NUMBER: 5A

OFFICE COPY

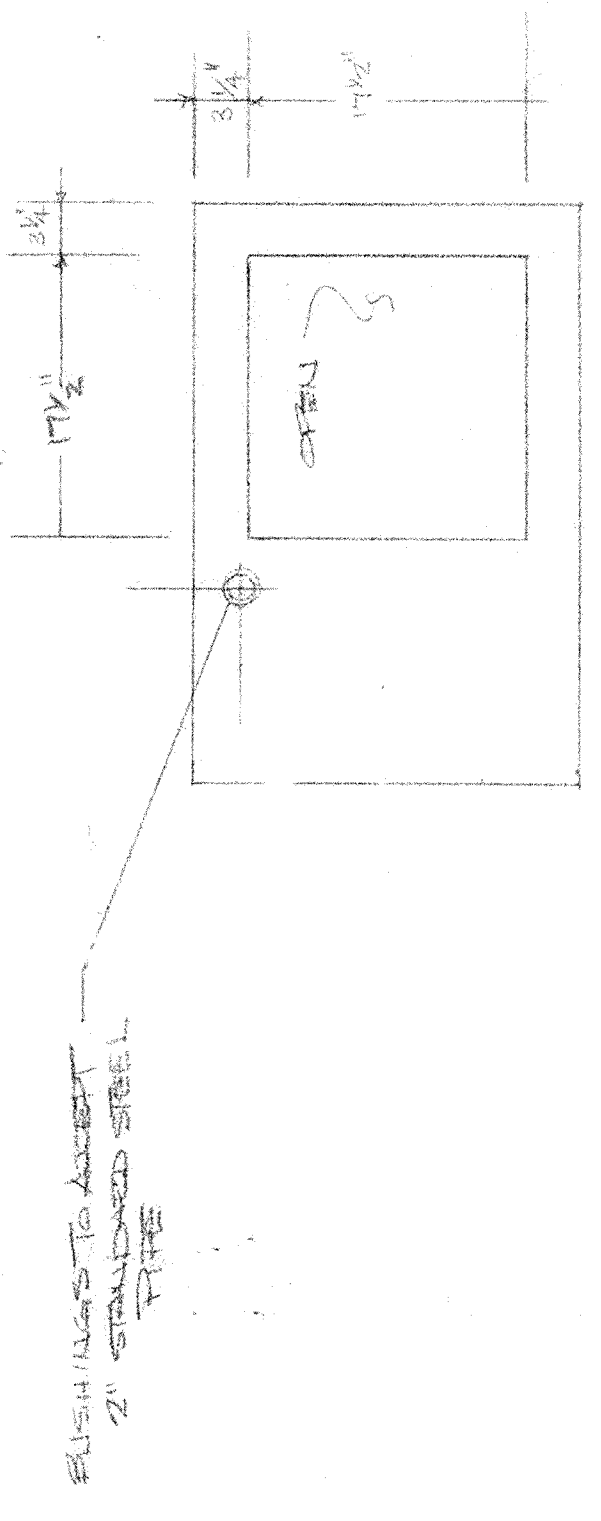






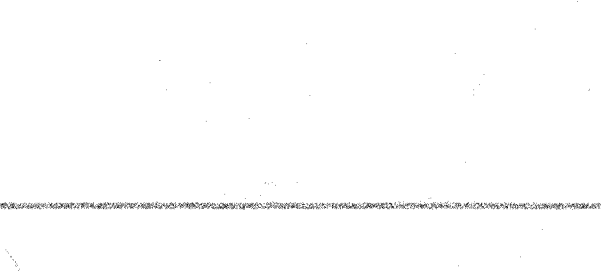
PLAN VIEW OF OVERFLOW TANK  
SCALE 1" = 1'-0"

OVERFLOW TANK NOTES  
1. TANK TO BE MADE OF STEEL



ELEVATION WEST AT REAR GALLERY WALL  
SCALE 1/2" = 1'-0"

PLAN VIEW SHOWING LOCATION OF HOLE FOR FILL PIPE  
SCALE 3/8" = 1'-0"



FRONT (WEST) SIDE  
SCALE 1" = 1'-0"

REVISE AND RESUBMIT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is only for conformity with the design of the Project and compliance with the information herein. It is not a guarantee of the accuracy of the dimensions or the construction of the work. The contractor is responsible for the construction of the work of all trades.

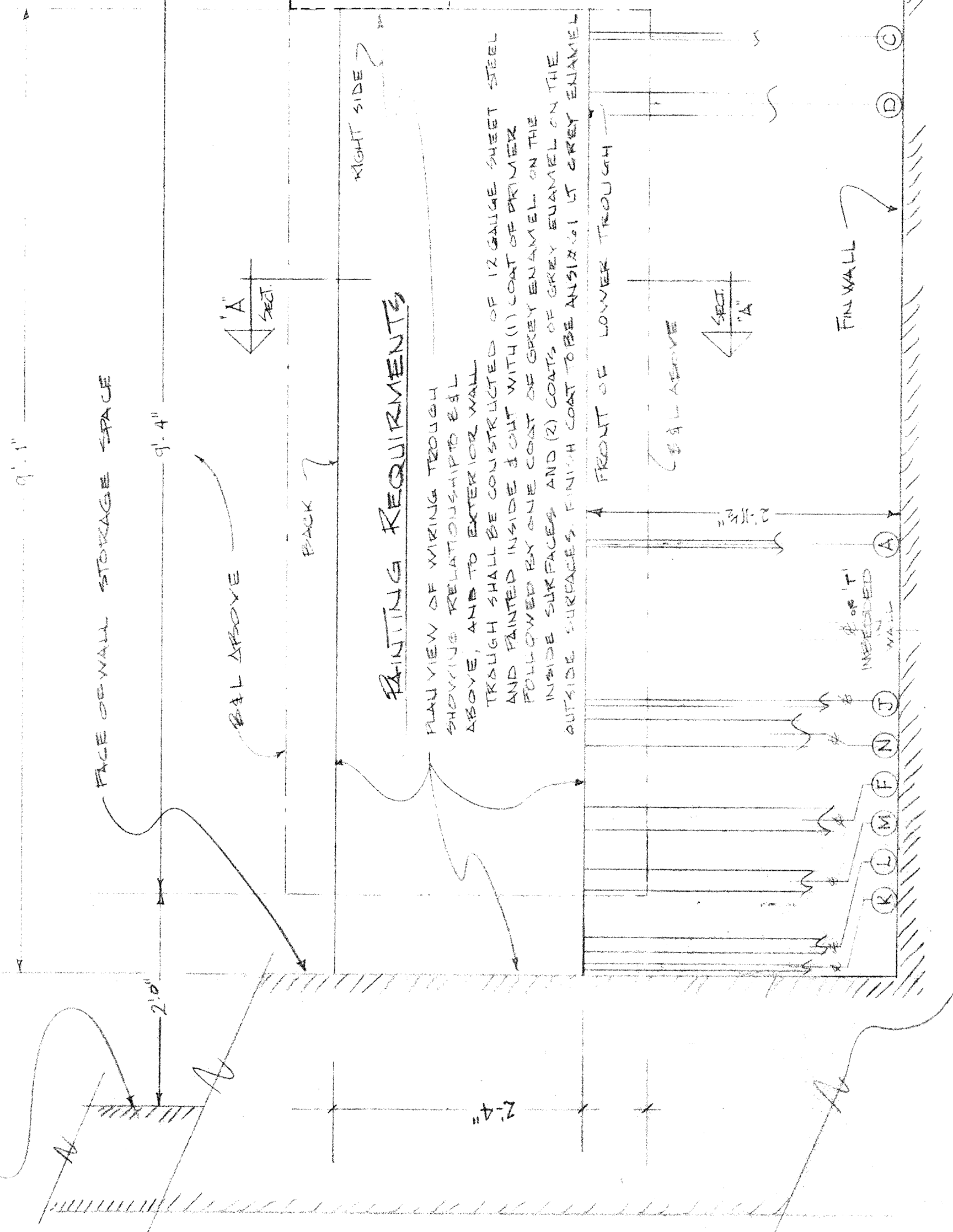
HARDESTY & HANOVER  
CONSULTING ENGINEERS  
1108 W. 11th St. N. W.  
TULSA, OKLA. 74103  
APPROVED BY: *[Signature]*  
DATE: 12/07/82

SAVANNAH LEWIS DEL  
REBROGUE  
FILL PIPE LOCATION AT  
OVERFLOW TANK  
TUDOR ELEC. POWER DEL  
DRAWING NUMBER FT-2

OFFICE COPY

# LOWER TROUGH

FINISH WALL ABOVE ELEV 11.6



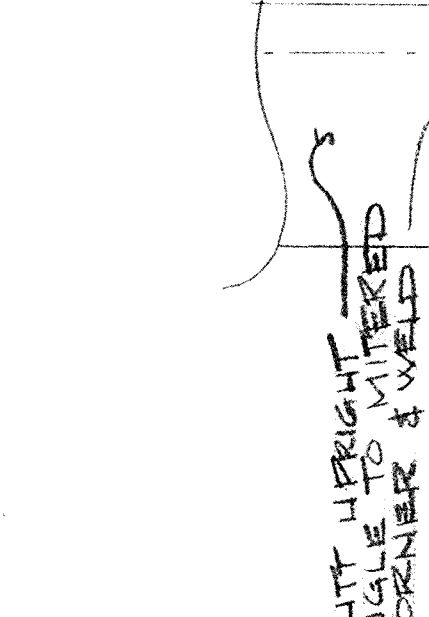
## PAINTING REQUIREMENTS

PLAN VIEW OF LOWER TROUGH SHOWING RELATIONSHIPS E-11 ABOVE, AND TO EXTERIOR WALL AND PAINTED INSIDE JOINT WITH (1) COAT OF PRIMER FOLLOWED BY ONE COAT OF GREY ENAMEL ON THE INSIDE SURFACES AND (2) COATS OF GREY ENAMEL ON THE OUTSIDE SURFACES. FINISH COAT TO BE ANGLIZOLIT GREY ENAMEL.

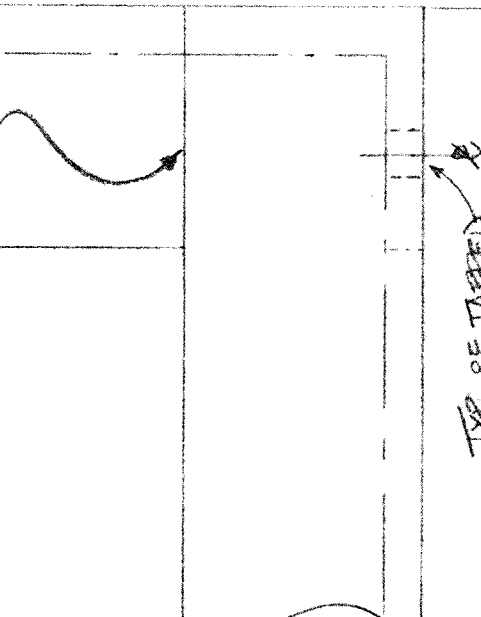
1/2" INTERMEDIATE DIAPHRAGMS OF MOLDED PHENOLIC COMPOUND 1 1/2" x 1/2" x 1/8" THICK STRAPS BOLTED TO FRAME AFTER INSTALLATION TO HOLD PHENOLIC COMPOUND.

(2) 1/4" x 1/4" x 1/4" ANCHORS BOLT TO WALL. DRILLS ACCEPT 1 1/2" STAINLESS STEEL MOUNTING STRIPS AFTER INSTALLATION OF FRAME. BOLT HOLDING STRIPS OVER PHENOLIC COMPOUND.

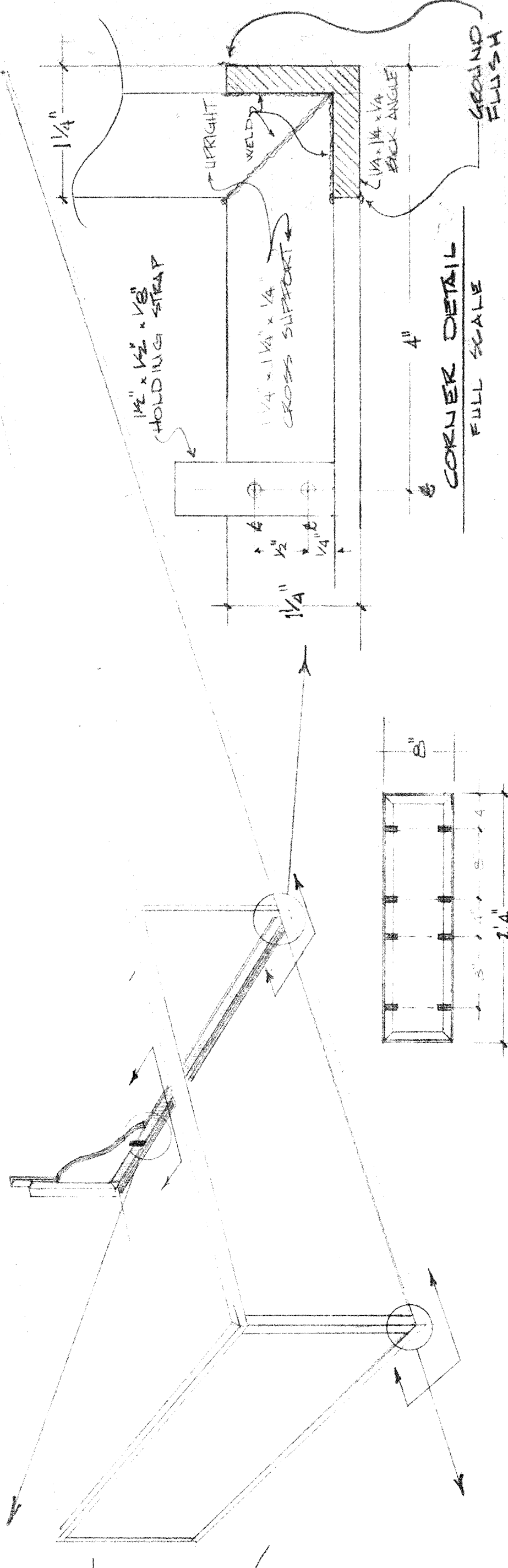
## CROSS BRACE DET. FULL SCALE



BUTT UPRIGHT MITERED CORNER & WELD



HOLE TO ACCEPT 1/4\"/>

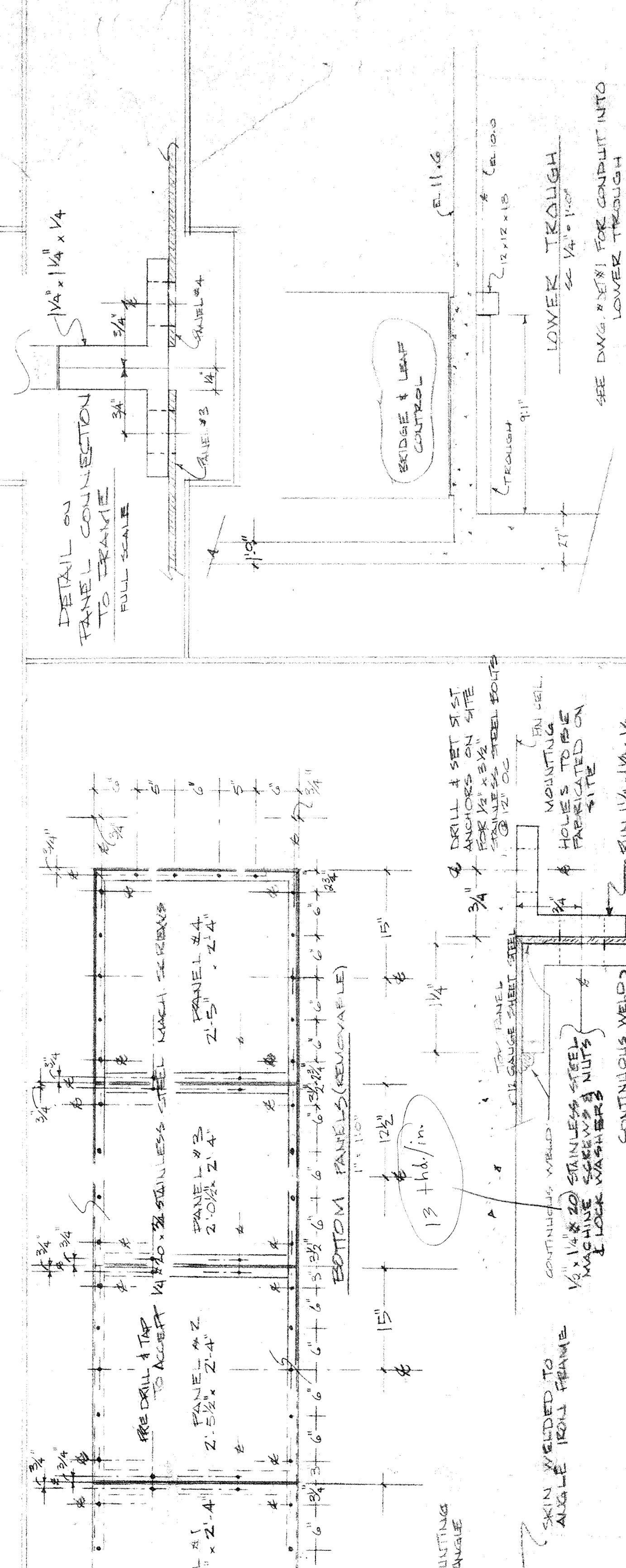


## CORKER DETAIL FULL SCALE

GROUND FLUSH

## NOTES

1. TROUGH FRAME TO BE CONSTRUCTED OF 1/4" x 1/4" x 1/4" ANGLE IRON AS SHOWN ABOVE. 12 GAUGE SHEET STEEL SKIN TO BE ATTACHED TO TOP AND FOUR SIDES BY CONTINUOUS WELDS. ALL EXTERIOR WELDS TO BE GROUND FLUSH WITH ANGLE IRON PROFILE.
2. ALL MOUNTING BOLTS, FASTENERS ETC. TO BE STAINLESS STEEL.



## MOUNTING DETAIL FULL SCALE

DRILL & SET SIX ANCHORS ON SITE FOR 1/2\"/>

SKIN WELDED TO ANGLE IRON FRAME

CONTINUOUS WELD 1/4\"/>

12 GAUGE STEEL SKIN

13 TAB/IN.

1/4\"/>

1/2\"/>

1/4\"/>

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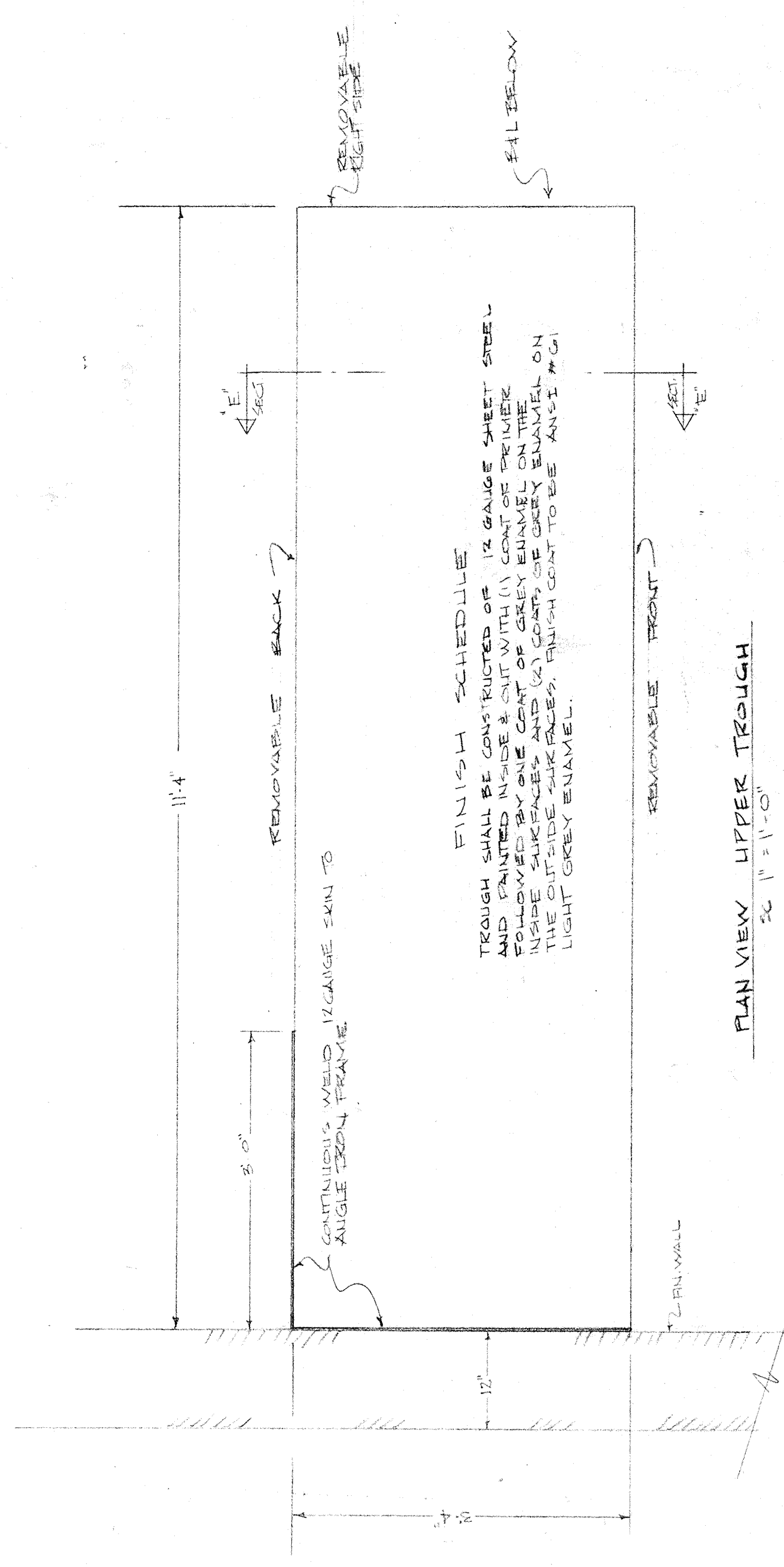
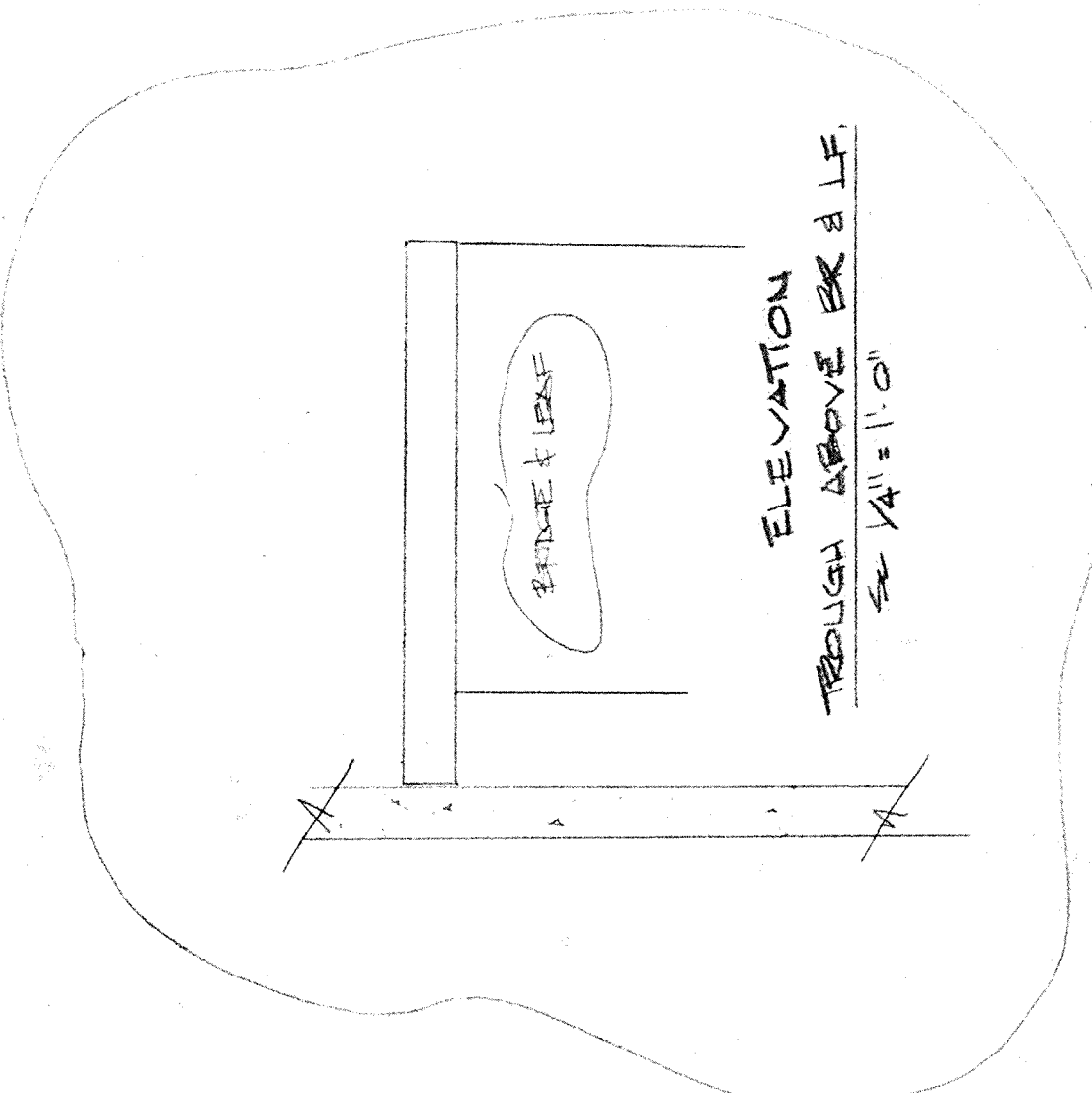
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1/4\"/>

# UPPER TROUGH



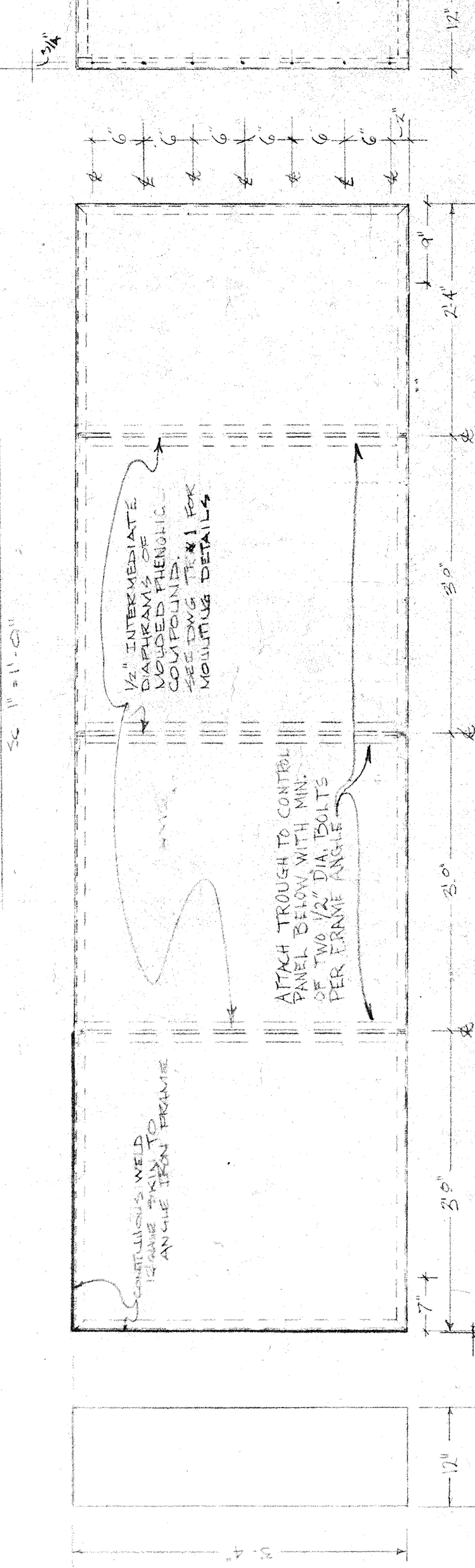
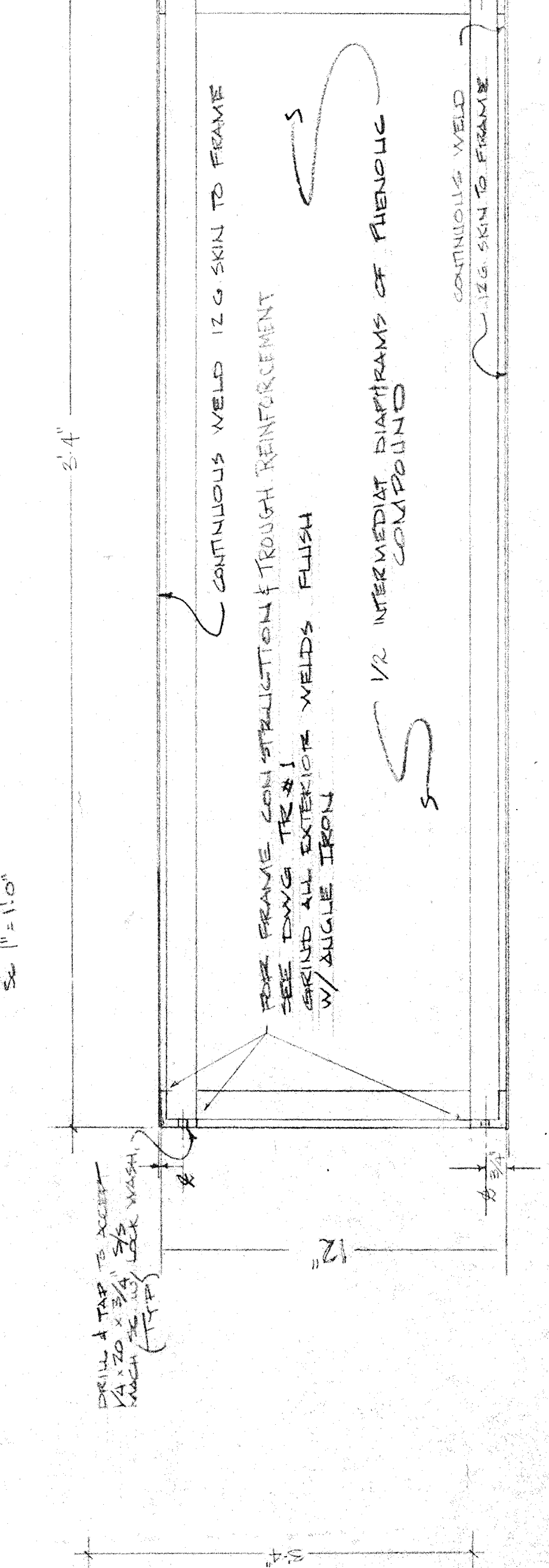
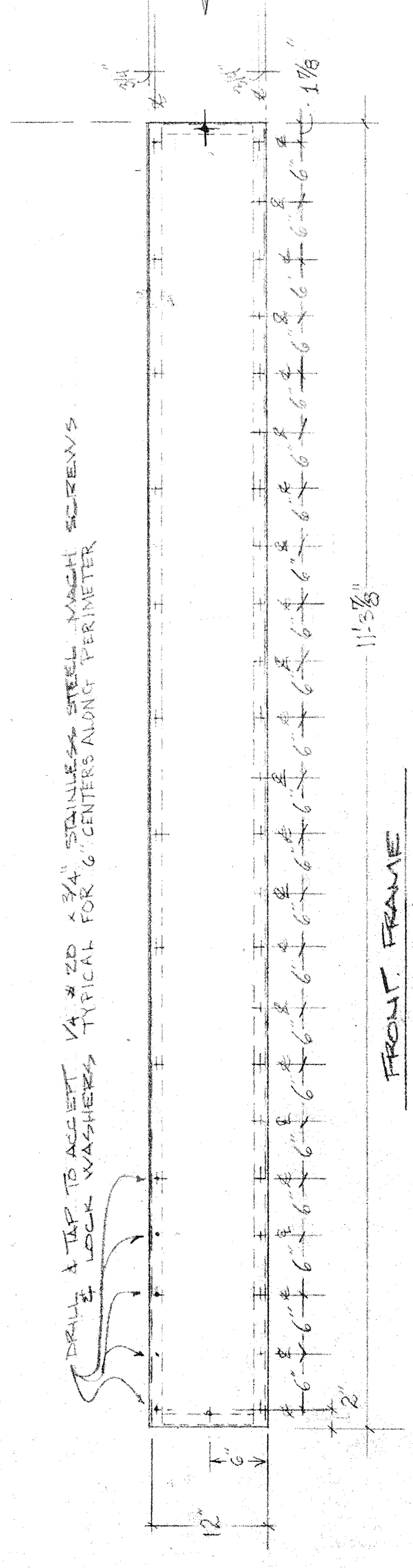
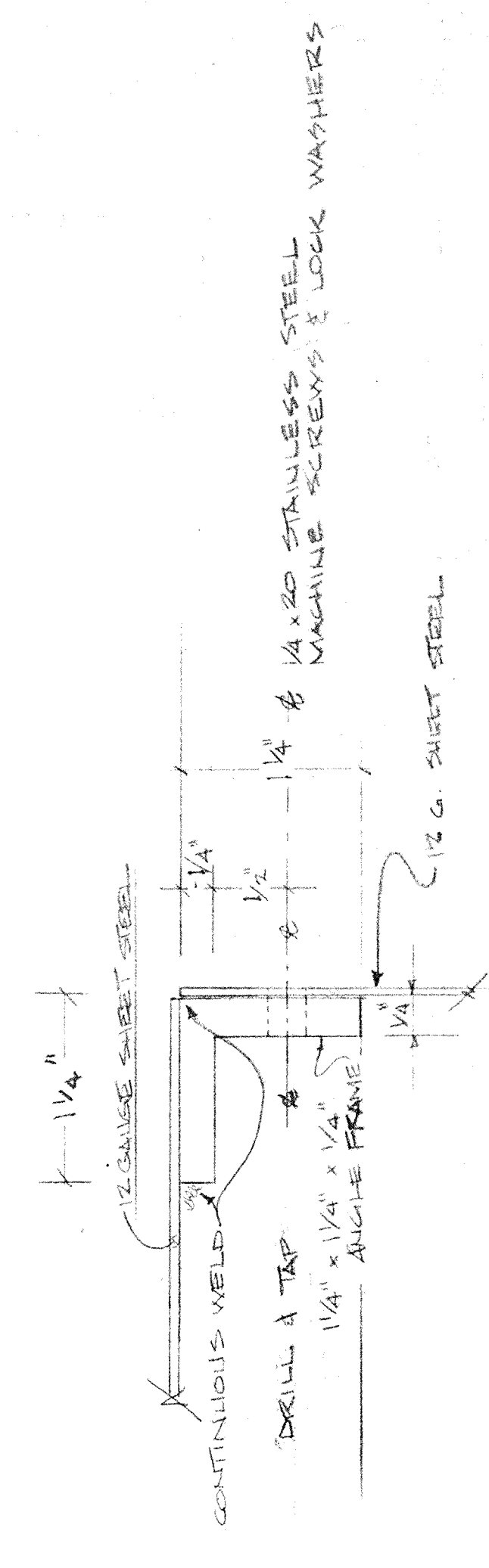
NOTE  
SEE DWG # CLR-1 FOR CONDUIT ARRANGEMENT

3" CONDUITS FROM SUBMARINE CABINET & CONDUIT PIPING ENTER TROUGH HERE

1/2" INTERMEDIATE DIAPHRAGMS (34" LONG) & LOCK WASHERS @ 6" ON CENTER

THIS PANEL NOT REMOVEABLE

PLAN VIEW UPPER TROUGH  
SCALE 1/4" = 1'-0"



CONDUCTORS PASSING THRU TROUGH TO BRIDGE LEAF CONTROL PANELS SHALL BE ROUTED VIA GALVANIZED WIPPLES W/ BUSHINGS ON BOTH ENDS

SECTION E-E  
SCALE 1/4" = 1'-0"

REVISE AND RESUBMIT  APPROVED  APPROVED AS NOTED

Checking is only for conformance with the data given of the project and compliance with the information given in the drawings. The contractor is responsible for the information that pertains solely to the fabrication and construction of the work of all trades.

HARDESTY & HANOVER CONSULTING ENGINEERS  
M. B. Bingham  
FEB 15 1983

SAVANNA BRIDGE LEVES, DEL.

UPPER TROUGH  
TR-2

THINK ELEC.

SAVANNA BRIDGE LEVES, DEL.

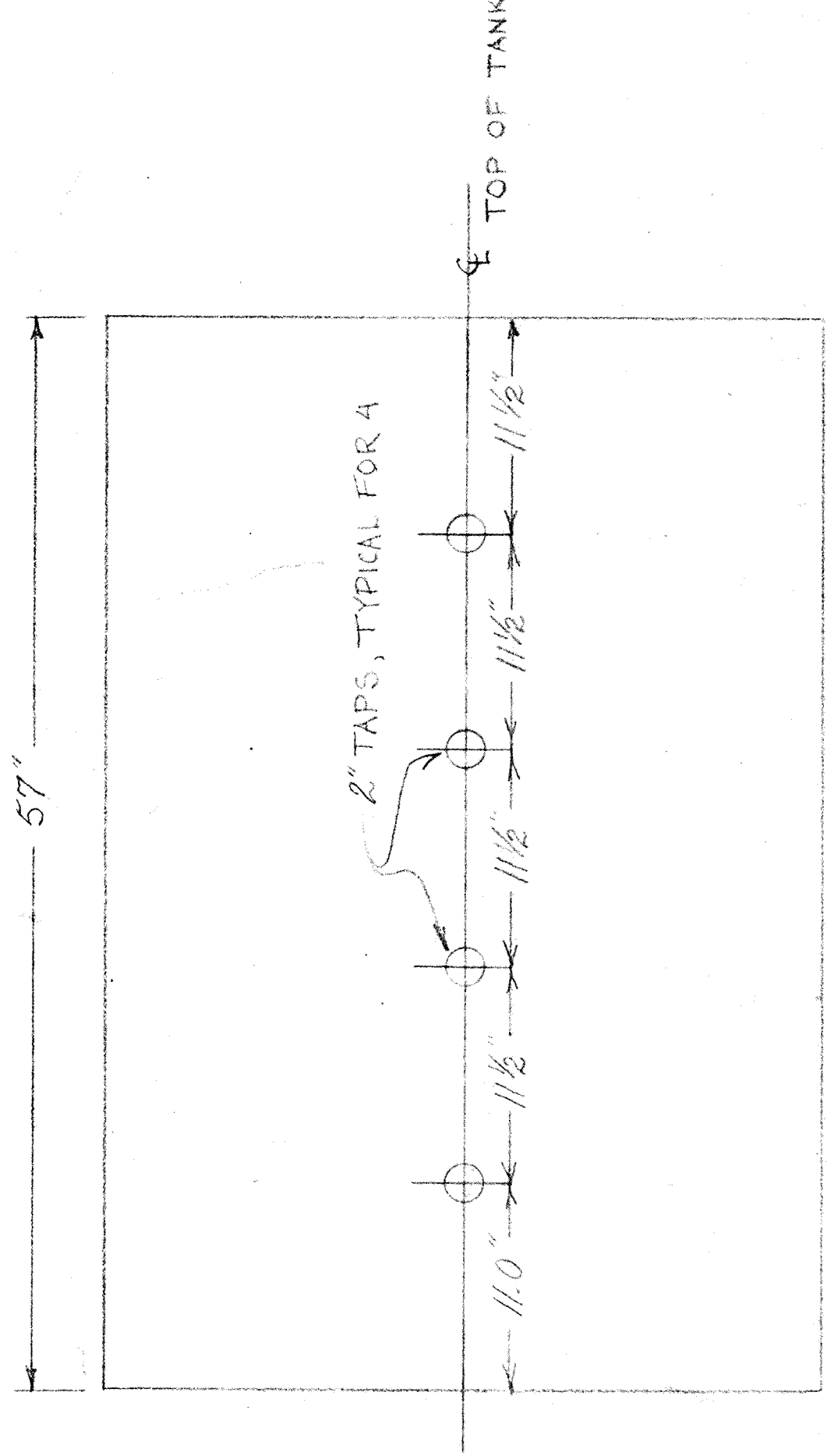
APPROVED BY: [Signature]

DATE: 11/25/82

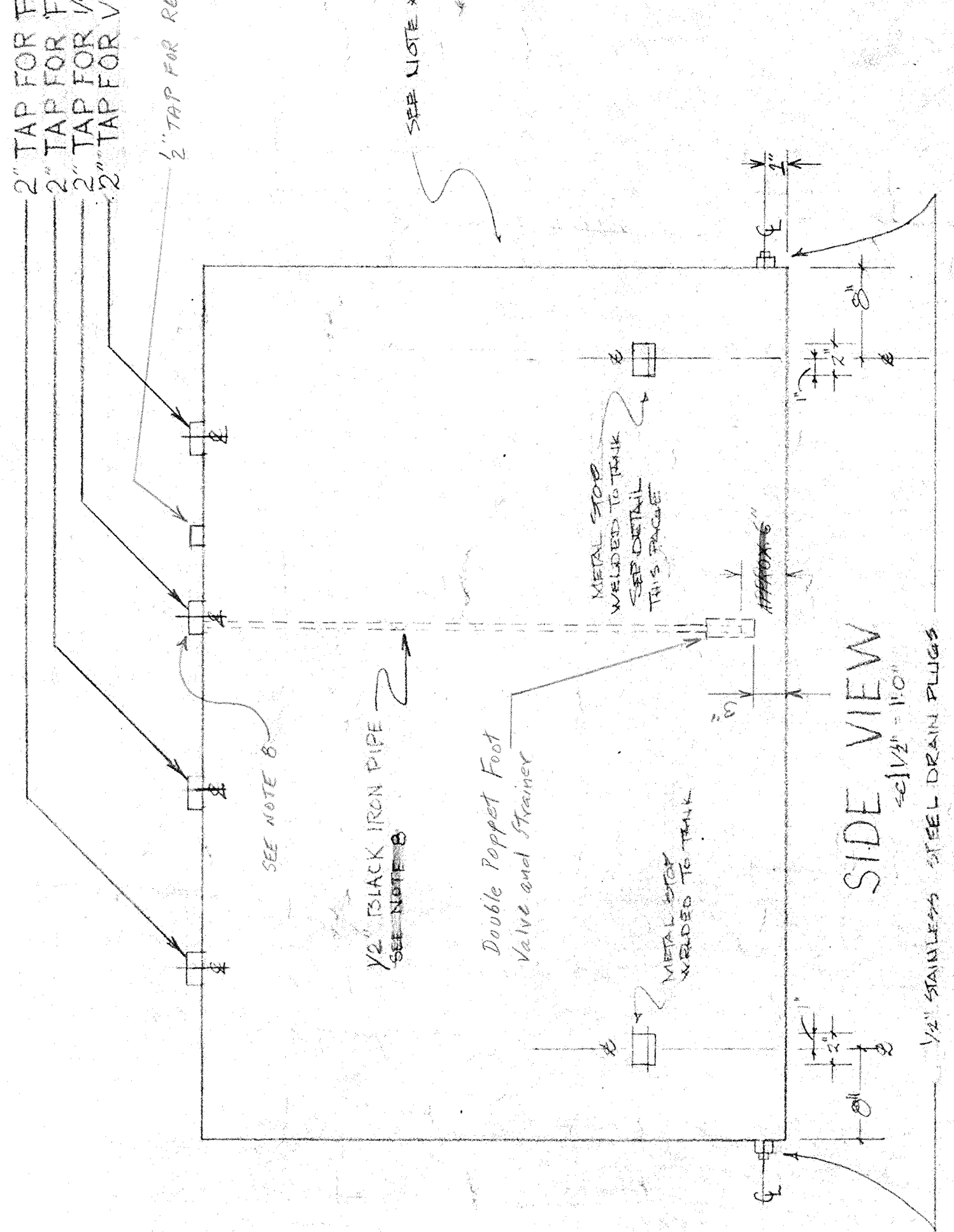
SCALE: 1/4" = 1'-0"

DRAWING NUMBER: TR-2

OFFICE COPY



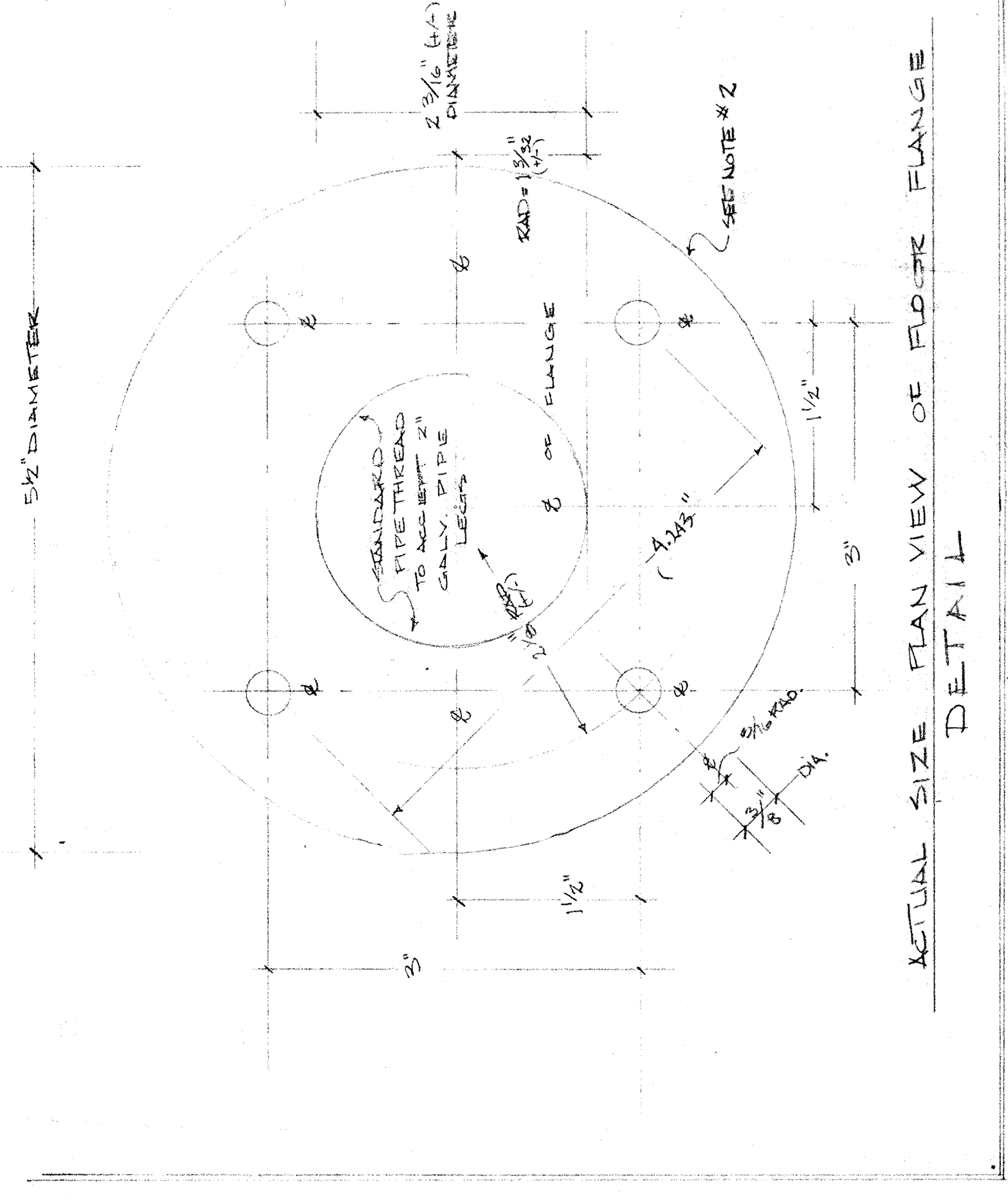
TOP VIEW  
SCALE: 1/2" = 1'-0"



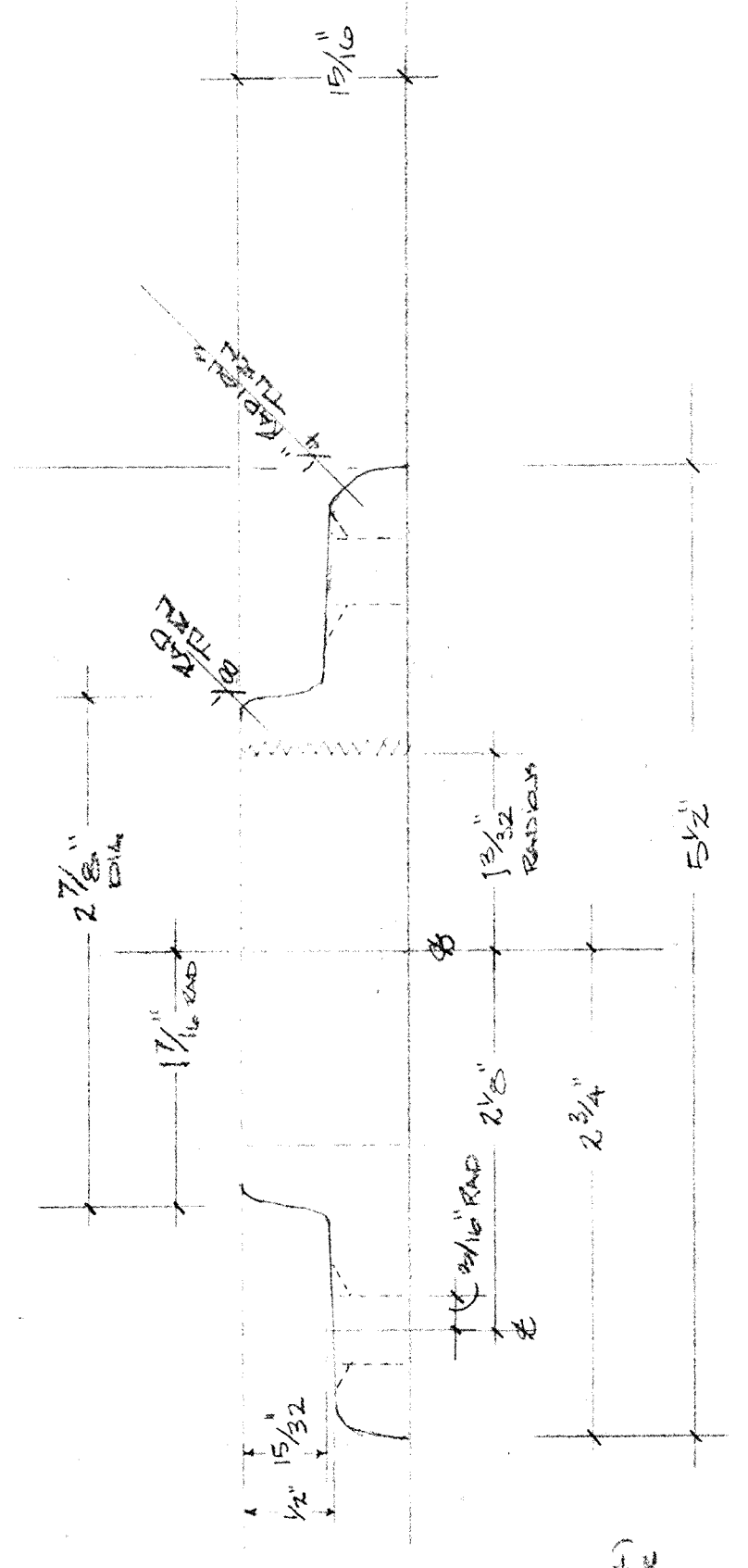
SIDE VIEW  
SCALE: 1/2" = 1'-0"

275 GALLON FUEL TANK

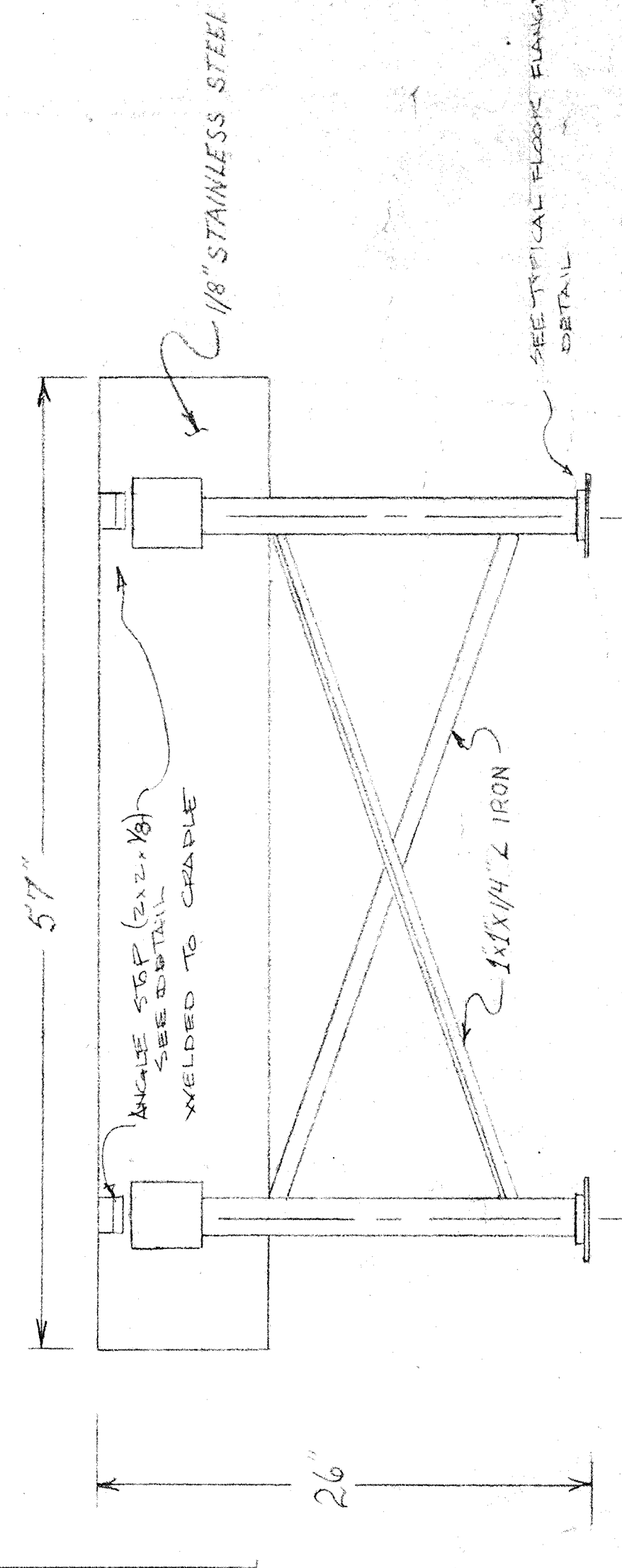
- \* NOTE
- TANK SHALL BE FABRICATED OF #12 GAUGE 18-8 TYPE 304 L STAINLESS STEEL W/ CONTINUOUSLY WELDED JOINTS.
  - FLANGE TO BE CAST IRON
  - STOPS TO BE STAINLESS STEEL
  - STAINLESS STEEL - ASTM A776 TYPE 304 L
  - PIPE ASTM A53
  - PAINT - INORGANIC ZINC & VINYL TOP COAT PER SEC. 606
  - FOR 1/2" TAPS, 1/2" METRIC TAPERS TO BE USED. THE TAPERS WILL BE CUT & THREADED BY THE FABRICATOR. THE TAPERS WILL BE CUT & THREADED BY THE FABRICATOR. THE TAPERS WILL BE CUT & THREADED BY THE FABRICATOR. THE TAPERS WILL BE CUT & THREADED BY THE FABRICATOR.
  - INSTALLATION & EQUIPMENT DETAIL ARE FORTH COMING ON SHOP DRAWINGS FOR FUEL GAUGE



ACTUAL SIZE PLAN VIEW OF FLOOR FLANGE  
DETAIL

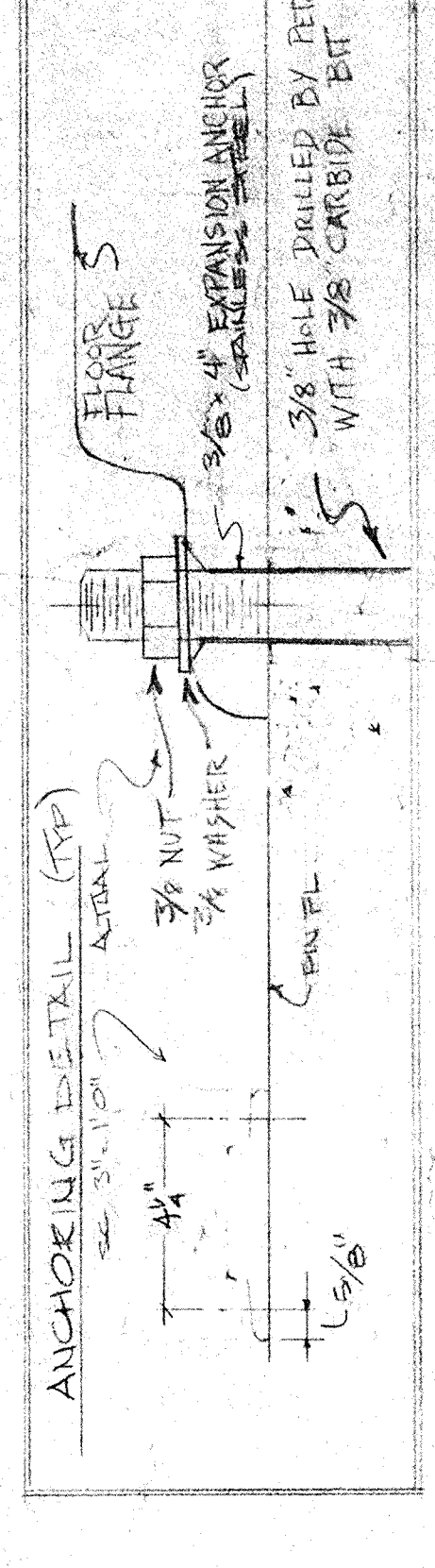


ACTUAL SIZE ELEVATION OF FLOOR FLANGE

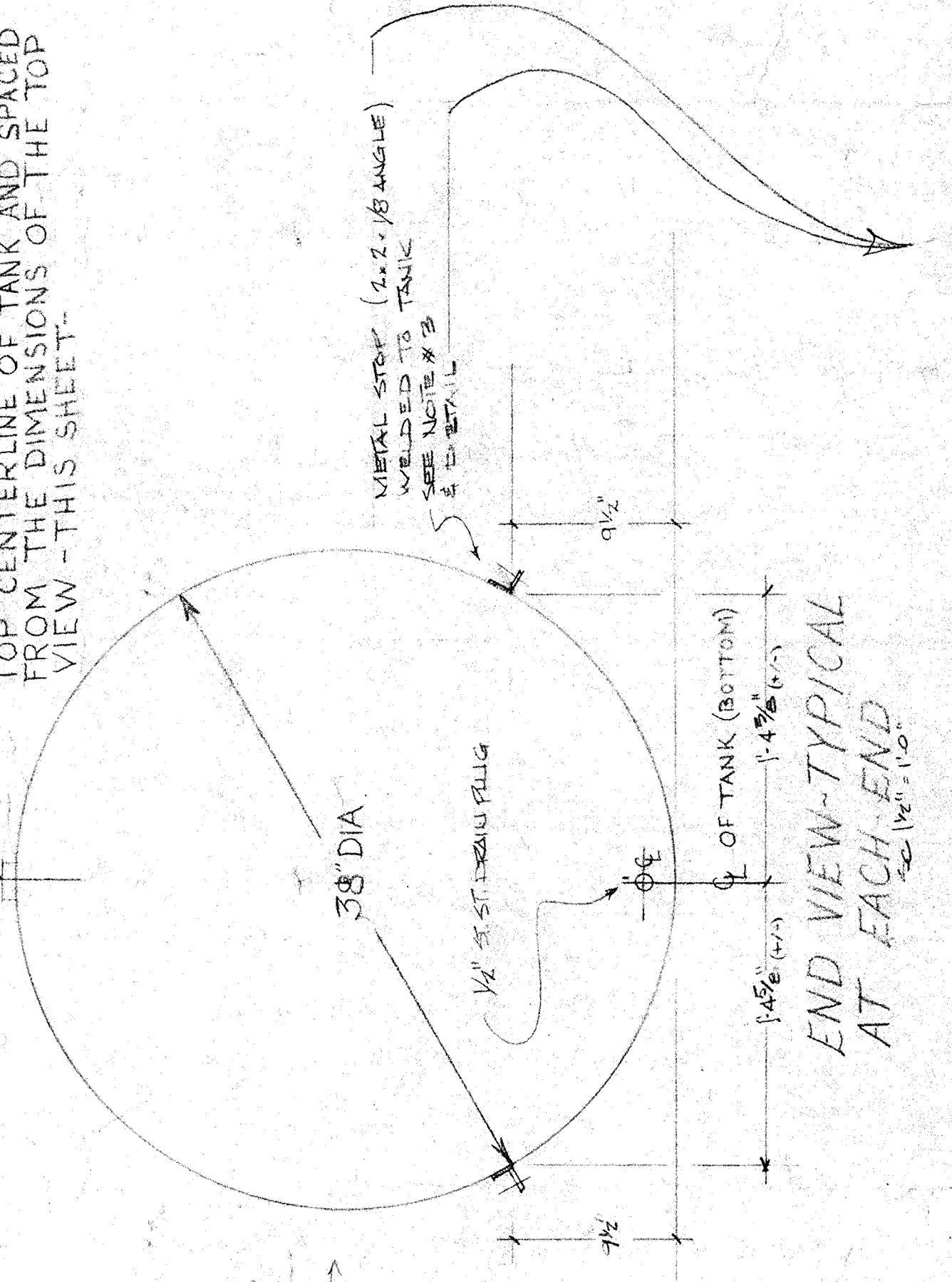


SIDE VIEW OF CRADLE  
SCALE: 1/2" = 1'-0"

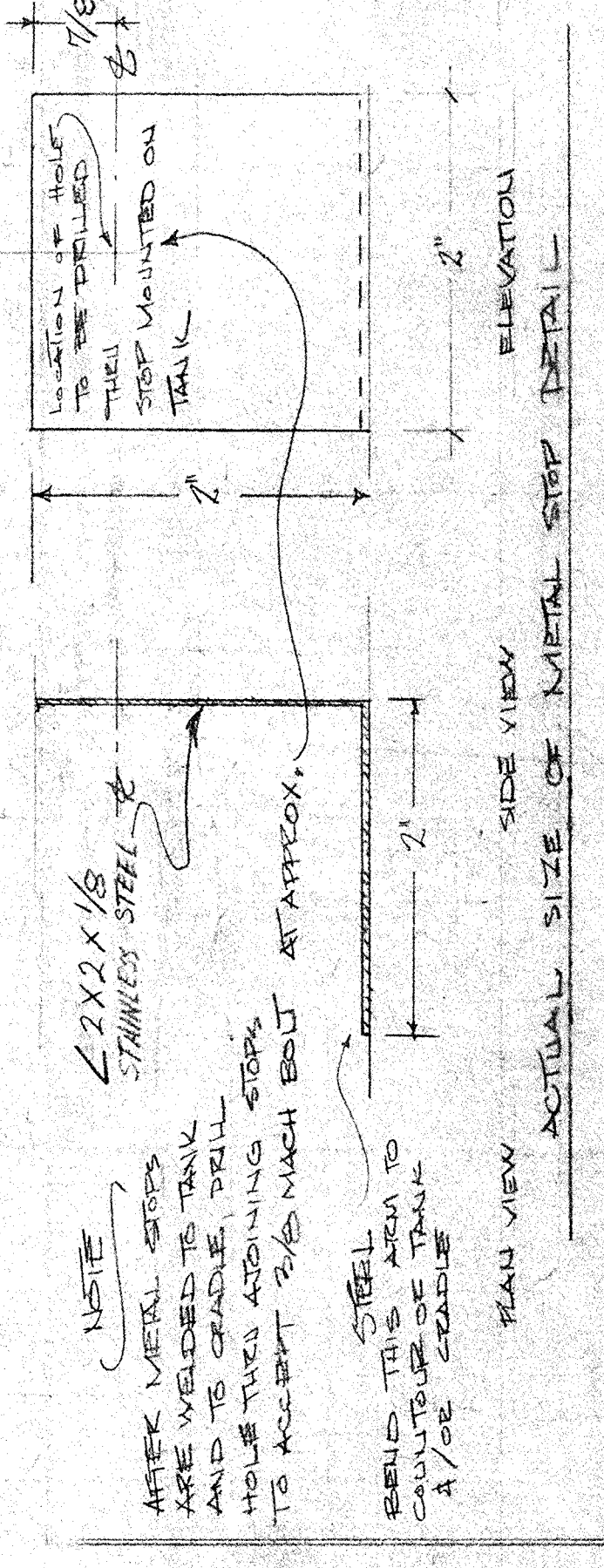
ALL TAPS TO BE STAINLESS STEEL 1/2" COUPLINGS AND WELDED TO THE TOP CENTERLINE OF TANK AND SPACED FROM THE DIMENSIONS OF THE TOP VIEW - THIS SHEET.



ANCHORING DETAIL (TOP)  
SCALE: 1/2" = 1'-0"



END VIEW-TYPICAL AT EACH END  
SCALE: 1/2" = 1'-0"



ACTUAL SIZE OF METAL STOP DETAIL  
ELEVATION

END VIEW OF TANK CRADLE  
SCALE: 1/2" = 1'-0"

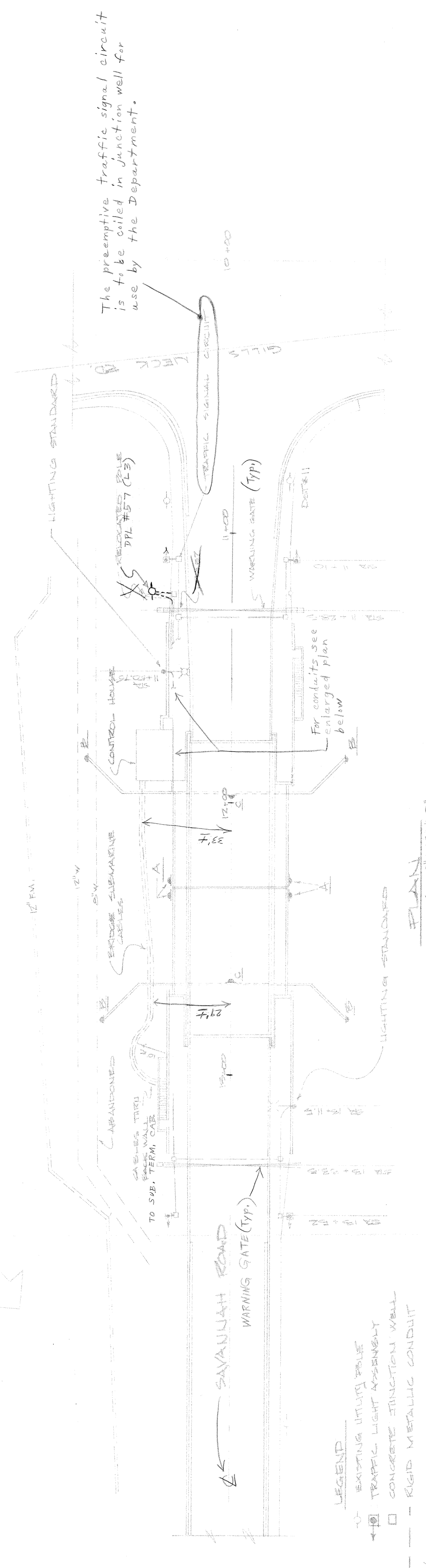
REVISE AND RESUBMIT  APPROVED AS NOTED   
NOT APPROVED  APPROVED AS NOTED

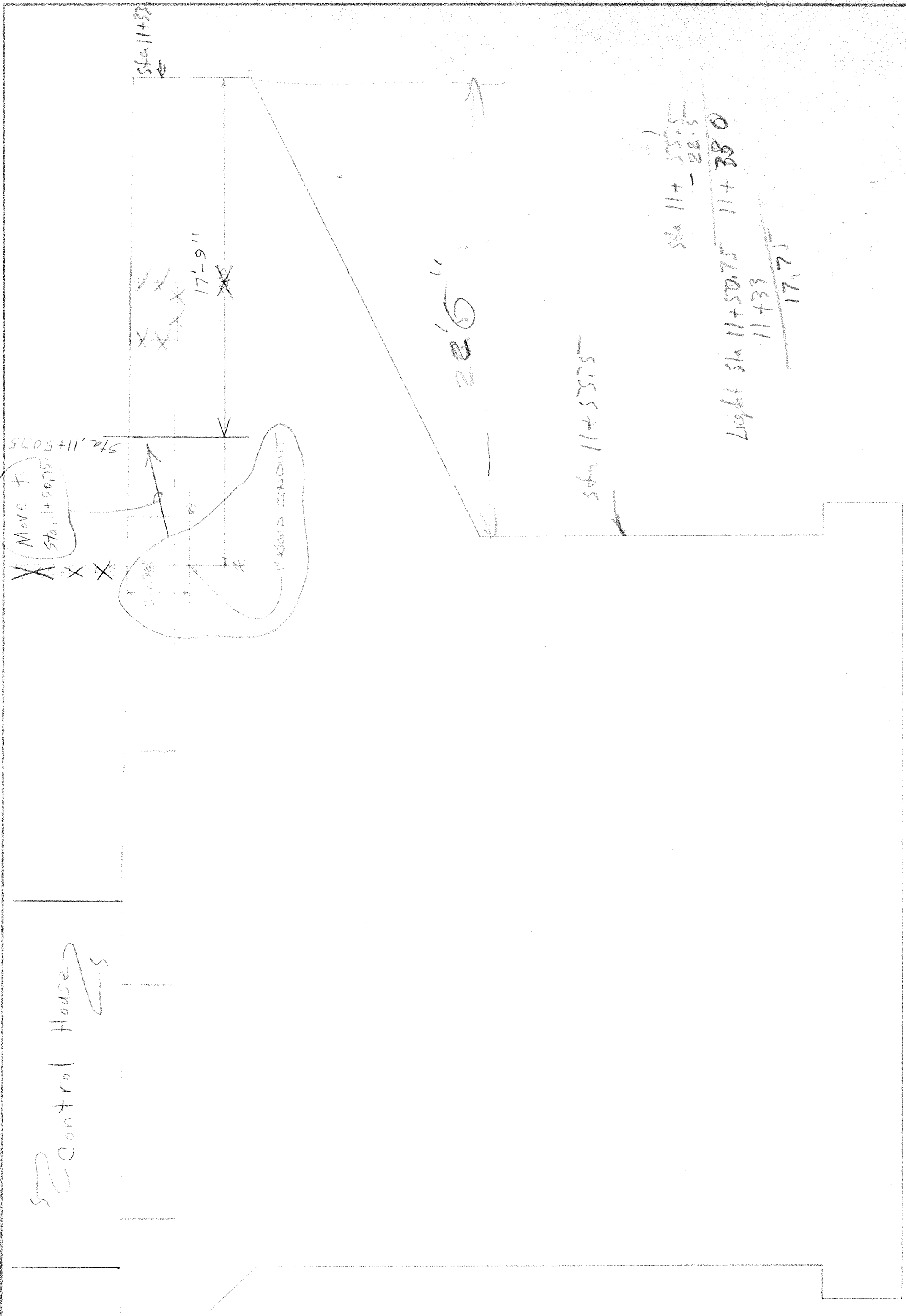
Checking is only for reference with the design of the project and compliance with the minimum requirements of the code. It is not intended to constitute a warranty or endorsement of the work of any contractor.

HARDISTY & HANOVER  
CONSULTING ENGINEERS  
11. B. H. H. FEB 15 1983

SAVANNAH ROAD BRIDGE	
SCALE: 1/2" = 1'-0"	APPROVED BY: [Signature]
DATE: 7-23-82	DRAWN BY: ZB/BJ
275 GALLON TANK & CRADLE	
TUDOR ELECTRIC	
DRAWING NUMBER: FT 1	

OFFICE COPY





SECTION LOOKING SOUTH AT INSIDE WEST PIER

~~West~~ PIER

NOTE: SEE DRAWG. 61 OF STATE HIGHWAY PRINTS FOR DETAILS ON BOLT PATTERN FOR PARAFET LIGHTING STANDARD MOUNTING

see sh 24 of 87

see F.F.

Black notes are check notes by Anatele

SEE SHEET 61 OF CONTRACT DRAWINGS, SECTION A-A OF LIGHTING STANDARD MOUNTING

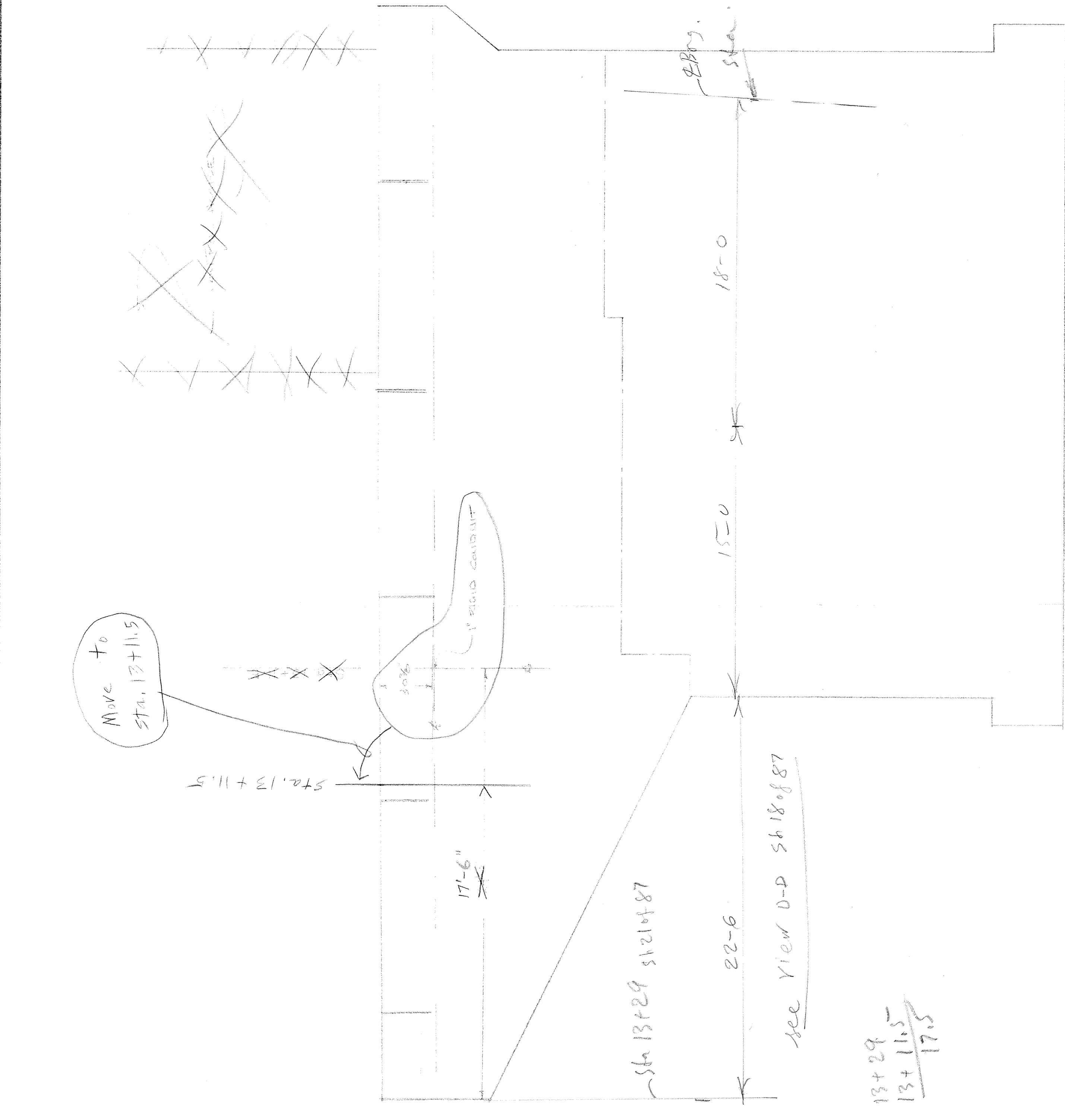
REVISE AND RESUBMIT  APPROVED AS NOTED

Checking is only for conformance with the design concept of the Project and compliance with the information given in the drawings. It is not intended to constitute a warranty, nor does it represent an approval of the materials, methods, or processes or to the responsibility of construction and for construction of the work of all trades.

HARDESTY & HANOVER CONSULTING ENGINEERS

M. B. Burgess

JAN 26 1983



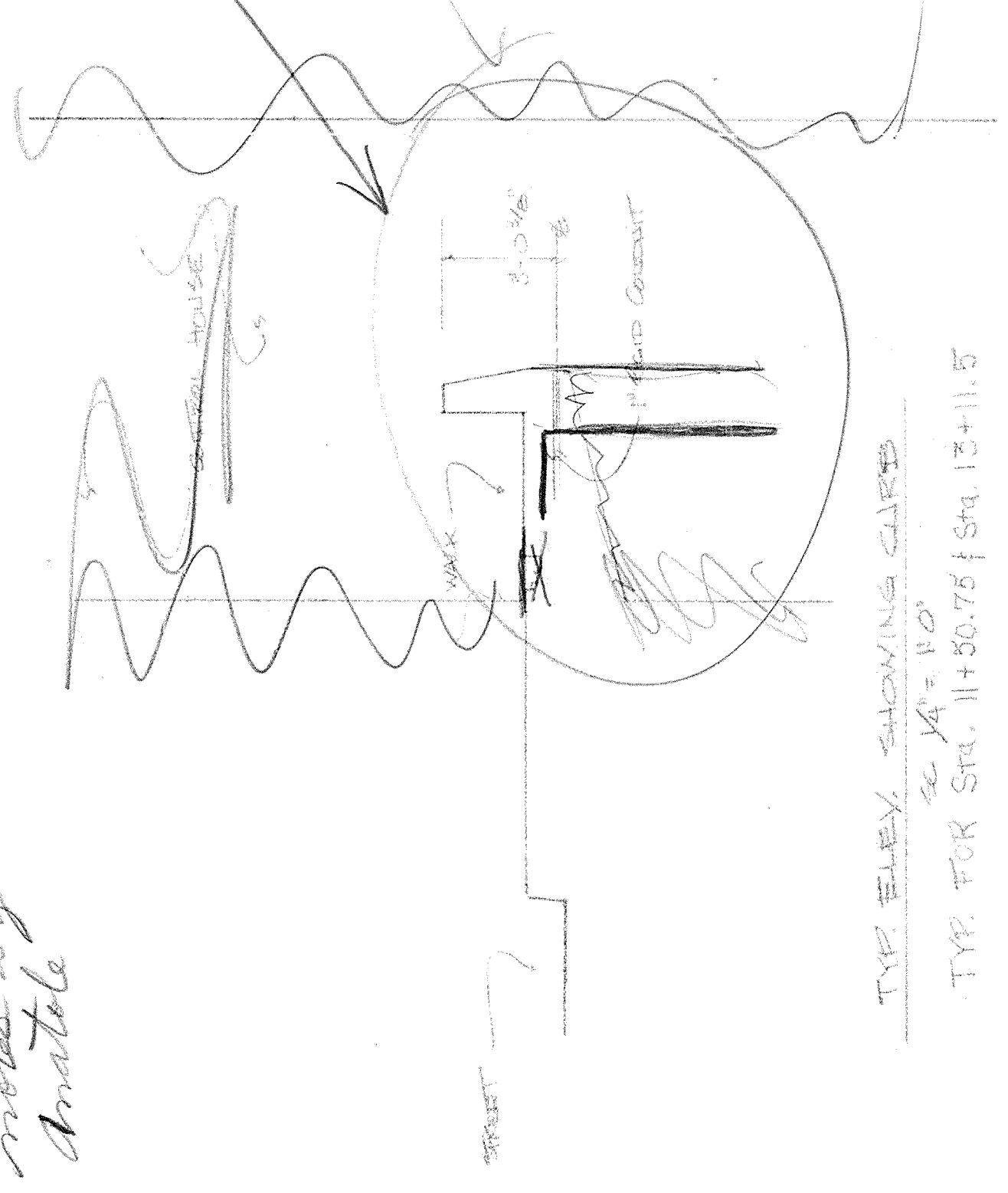
NORTH ELEVATION

~~East~~ PIER

East

see View D-D Sh 18 of 87

13+29  
13+11.5  
17.5



TYP. ELEV. SHOWING CLIPS

TYP. FOR Sta. 11+50.75 & Sta. 13+11.5

SAVANNAH RD BRIDGE  
LEVIN'S DEL  
DATE: 1/23/83 APPROVED BY: [Signature]  
SCALE: 1/4" = 1'-0"  
DRAWING NUMBER: 1504-1  
TUDOR ELEC. CO. LSCPL

OFFICE COPY

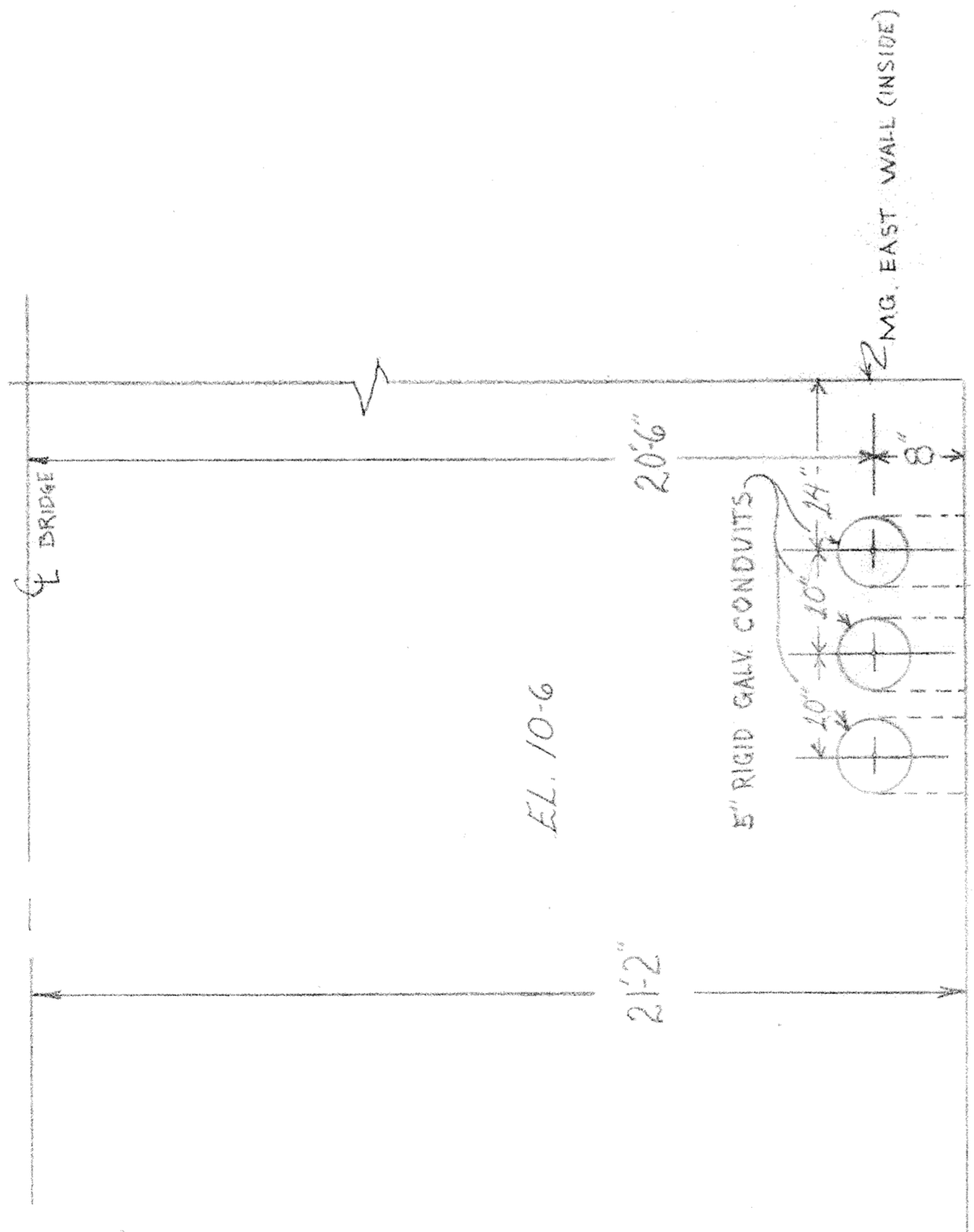




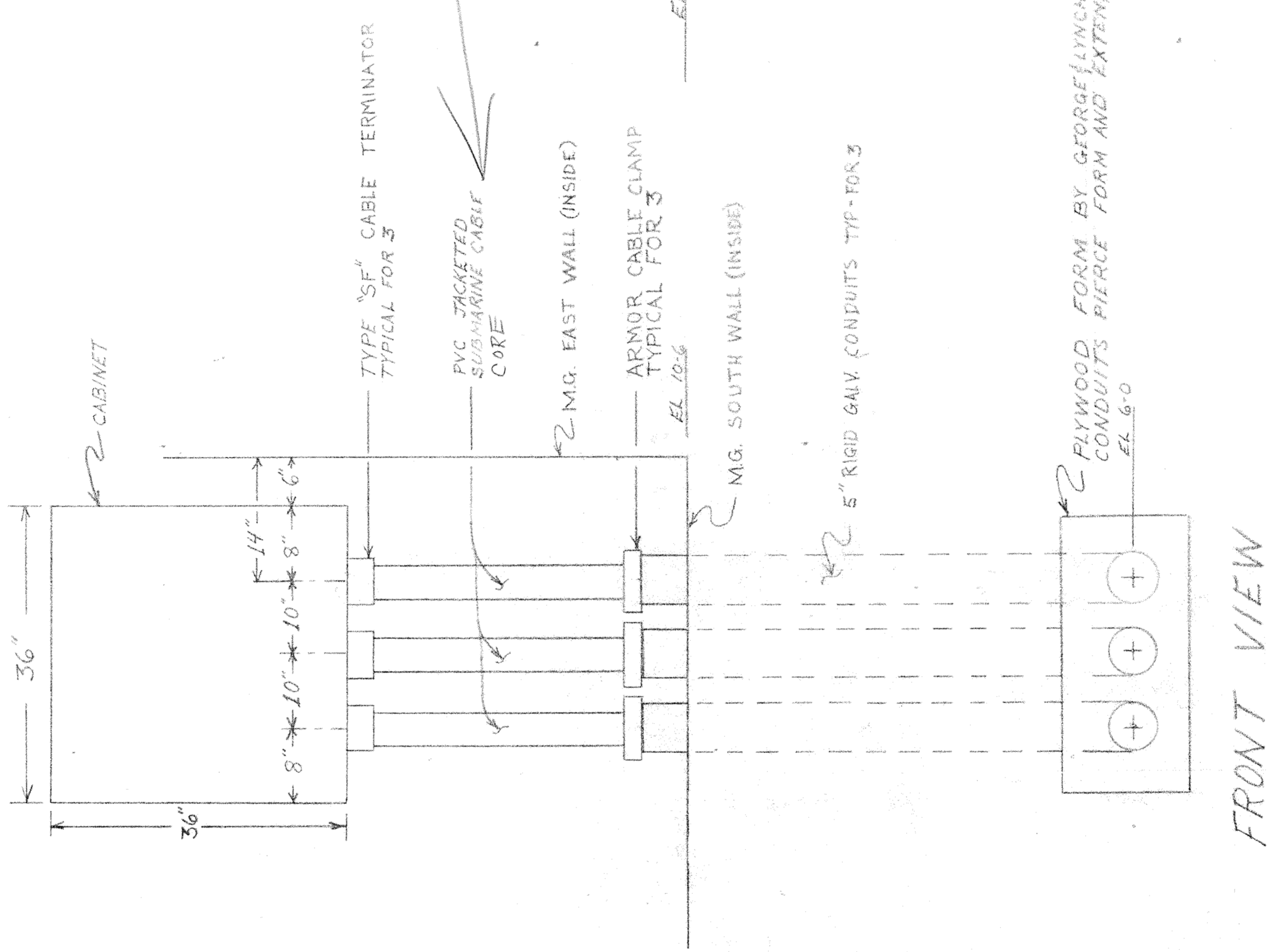




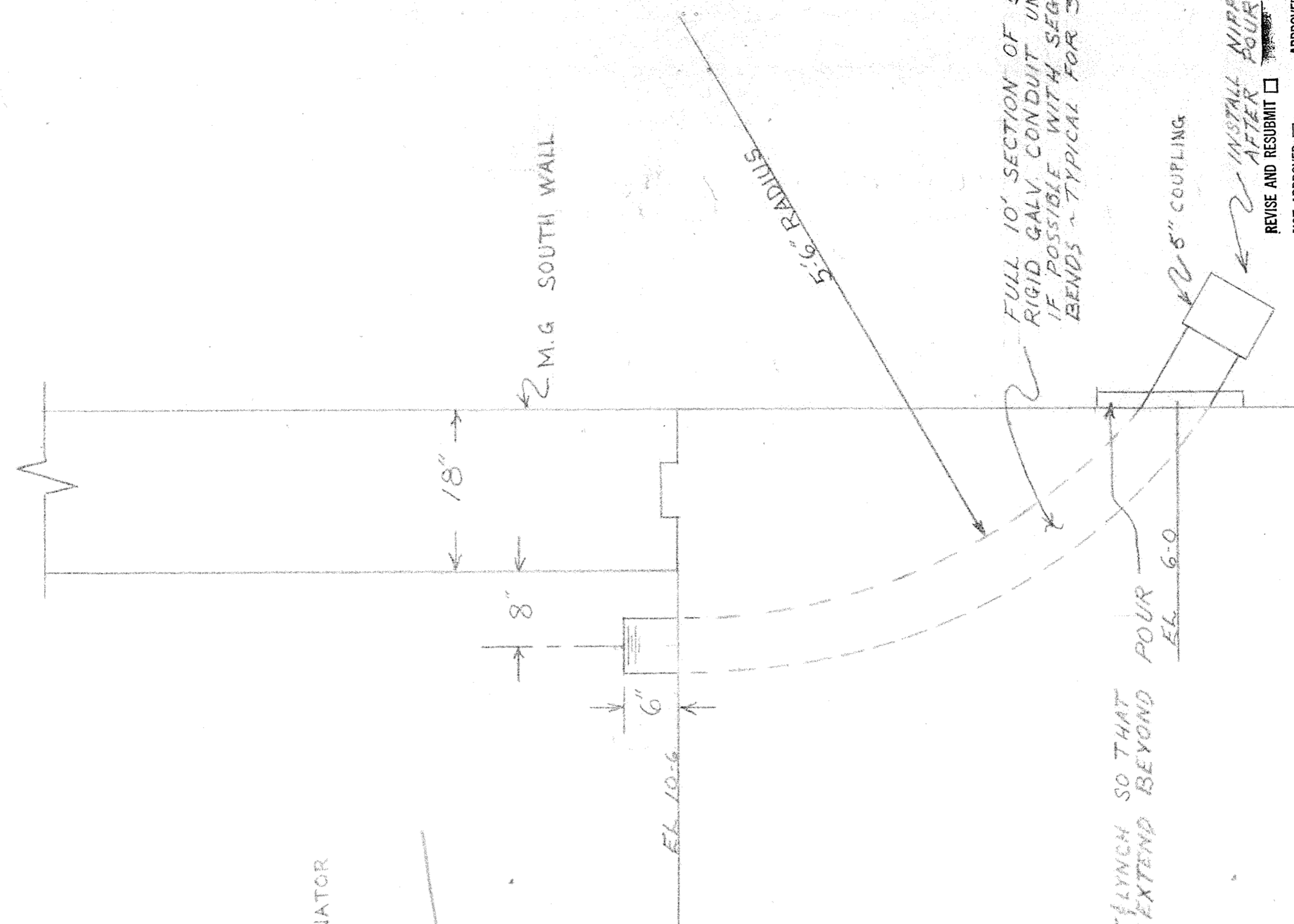




TOP VIEW



FRONT VIEW



SIDE VIEW

FULL 10' SECTION OF 5" RIGID GALV CONDUIT UN-CUT IF POSSIBLE WITH SEGMENT BENDS - TYPICAL FOR 3

5" COUPLING

APPROVED AS NOTED  NOT APPROVED  REUSE AND RESUBMIT

Checking is only for conformance with the design concept in the contract documents. The Contractor is responsible for dimensions to be contained and verified in the job. This process is not a substitute for the construction and for construction of the work of all trades.

HARDESTY & HANOVER CONSULTING ENGINEERS  
W. B. Buryana

JUL 14 1982

EAST PIER SUBMARINE CABLE CONDUITS AND LAYOUT FOR FOOTER POUR

SAVANNAH BRIDGE

SCALE: 1" = 1'-0"

DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

DRAWN BY: BORDZ

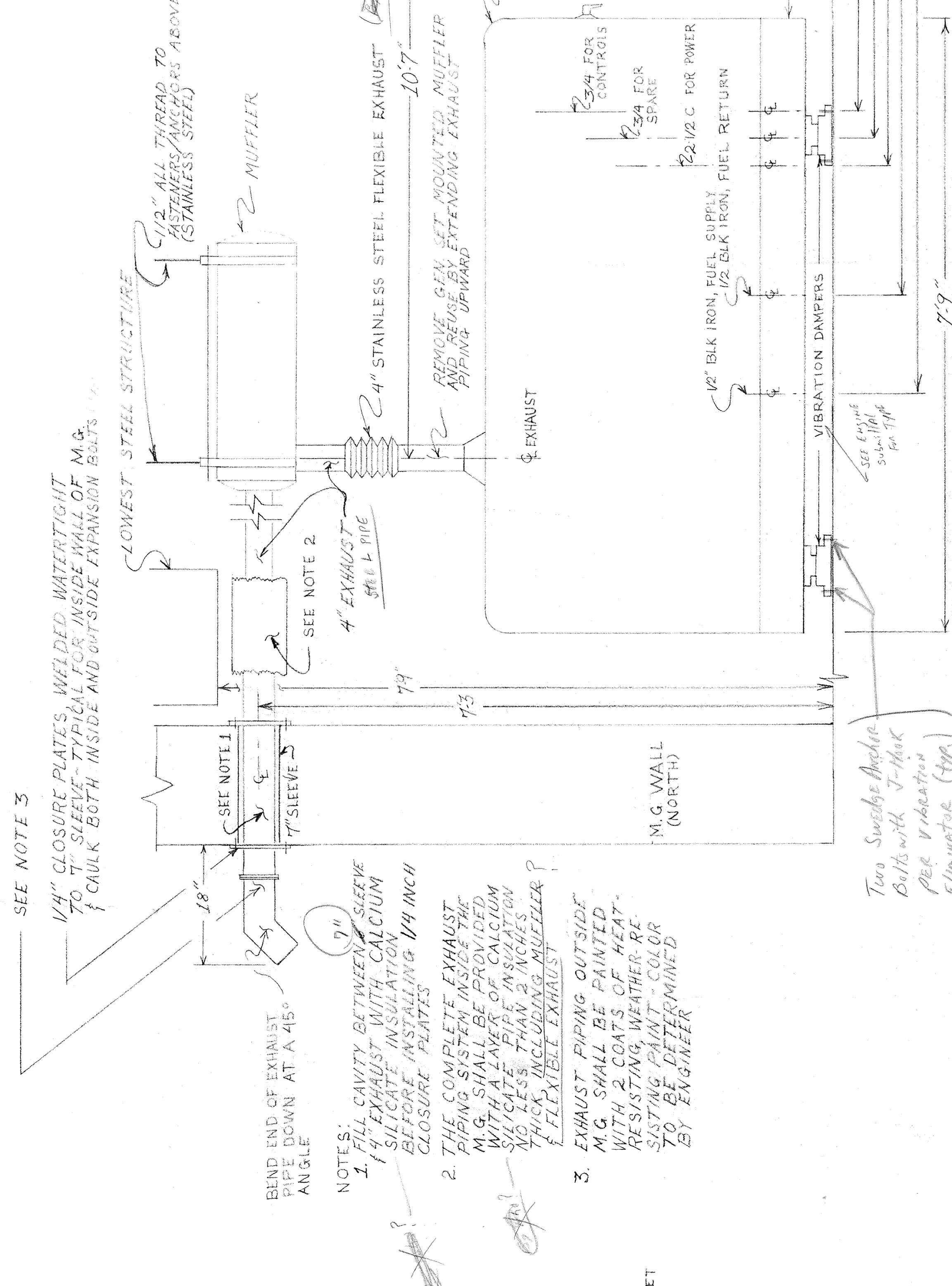
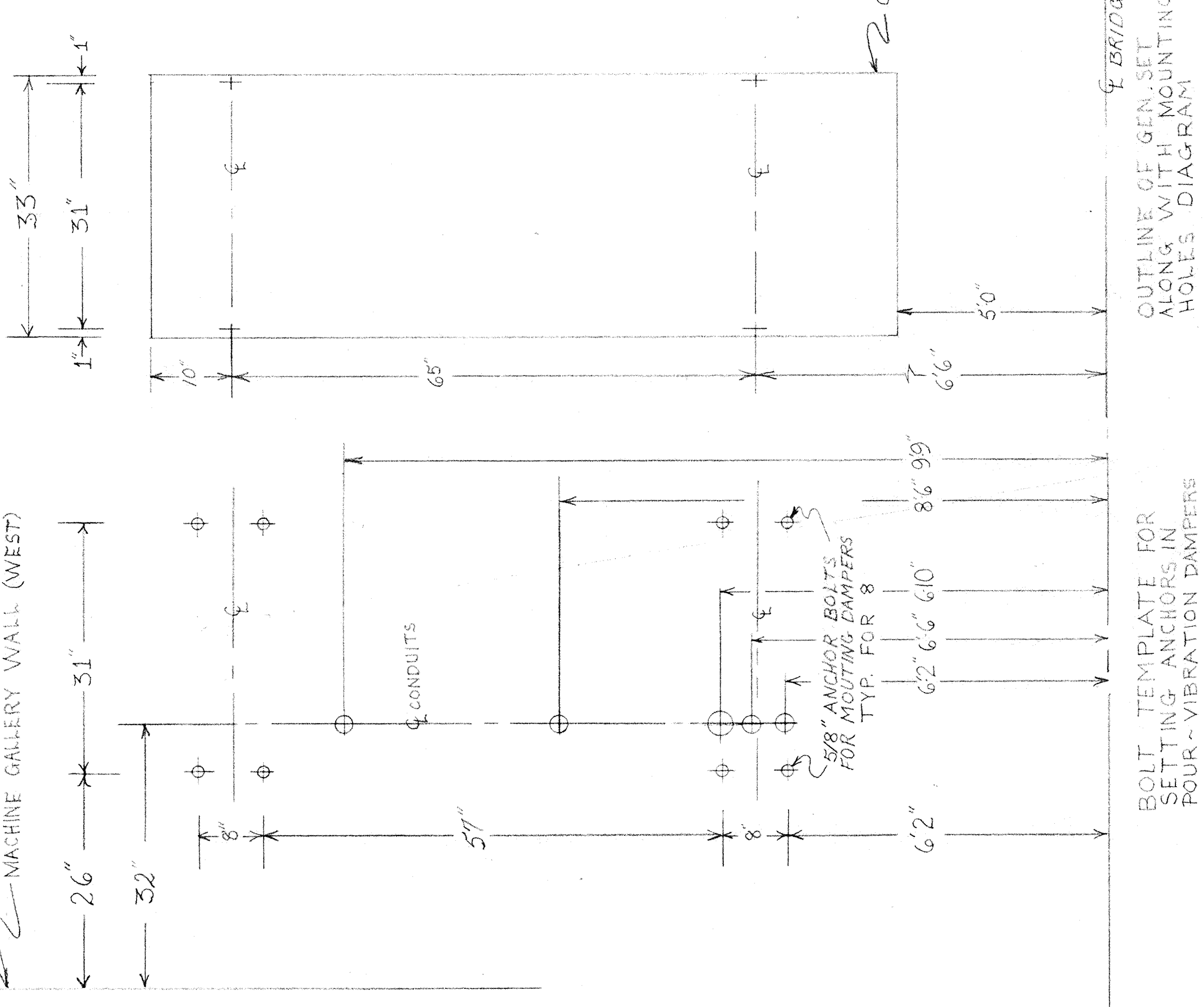
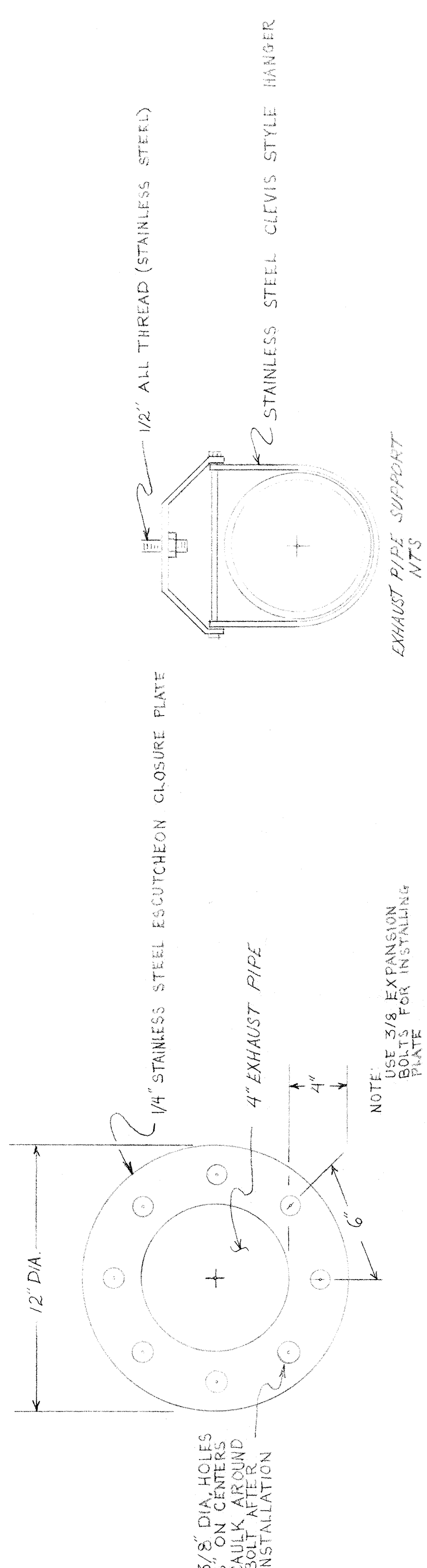
EAST PIER FOOTER POUR

TUDOR ELECTRIC EEP-2

DRAWING NUMBER

OFFICE COPY





- NOTES:
1. FILL CAVITY BETWEEN SLEEVE & 4" EXHAUST WITH CALCIUM SILICATE INSULATION BEFORE INSTALLING 1/4" INCH CLOSURE PLATES
  2. THE COMPLETE EXHAUST PIPING SYSTEM INSIDE THE M.G. SHALL BE PROVIDED WITH CALCIUM SILICATE INSULATION NO LESS THAN 2 INCHES THICK INCLUDING MUFFER & FLEXIBLE EXHAUST
  3. EXHAUST PIPING OUTSIDE M.G. SHALL BE PAINTED WITH 2 COATS OF HEAT-RESISTING WEATHER-RESISTING PAINT - COLOR TO BE DETERMINED BY ENGINEER

REVISION AND RESUBMIT

APPROVED AS NOTED

APPROVED AS NOTED

APPROVED AS NOTED

APPROVED AS NOTED

HARDESTY & HARDNER

CONSULTING ENGINEERS

500 BROADWAY

NEW YORK, N. Y. 10036

AUG 3 1962

BRIDGE

SCALE ~1" = 1'-0"

"BB"

SCALE 1" = 1'-0"

OFFICE COPY

SAVANNAH ROAD BRIDGE

GENERATOR SET DETAILS

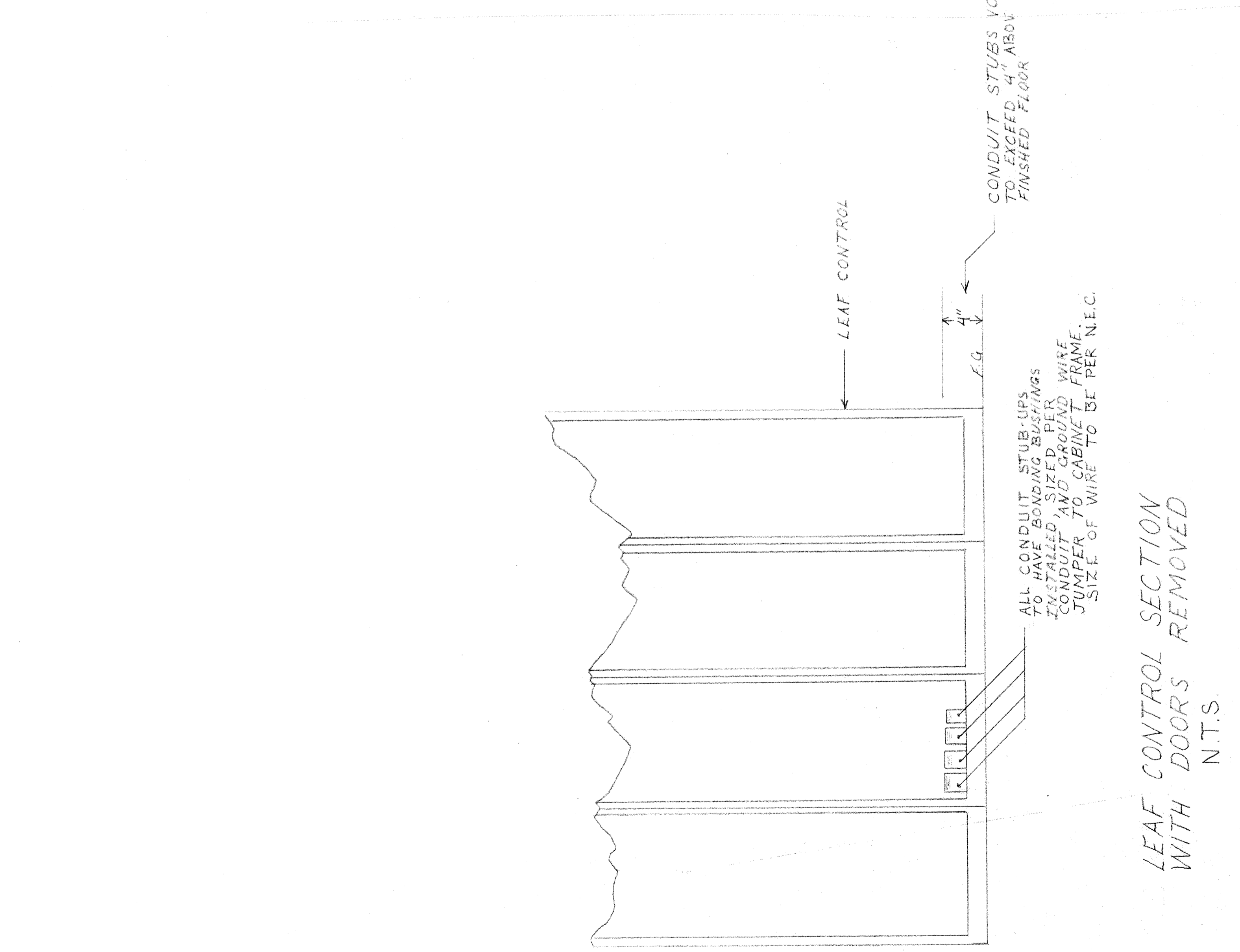
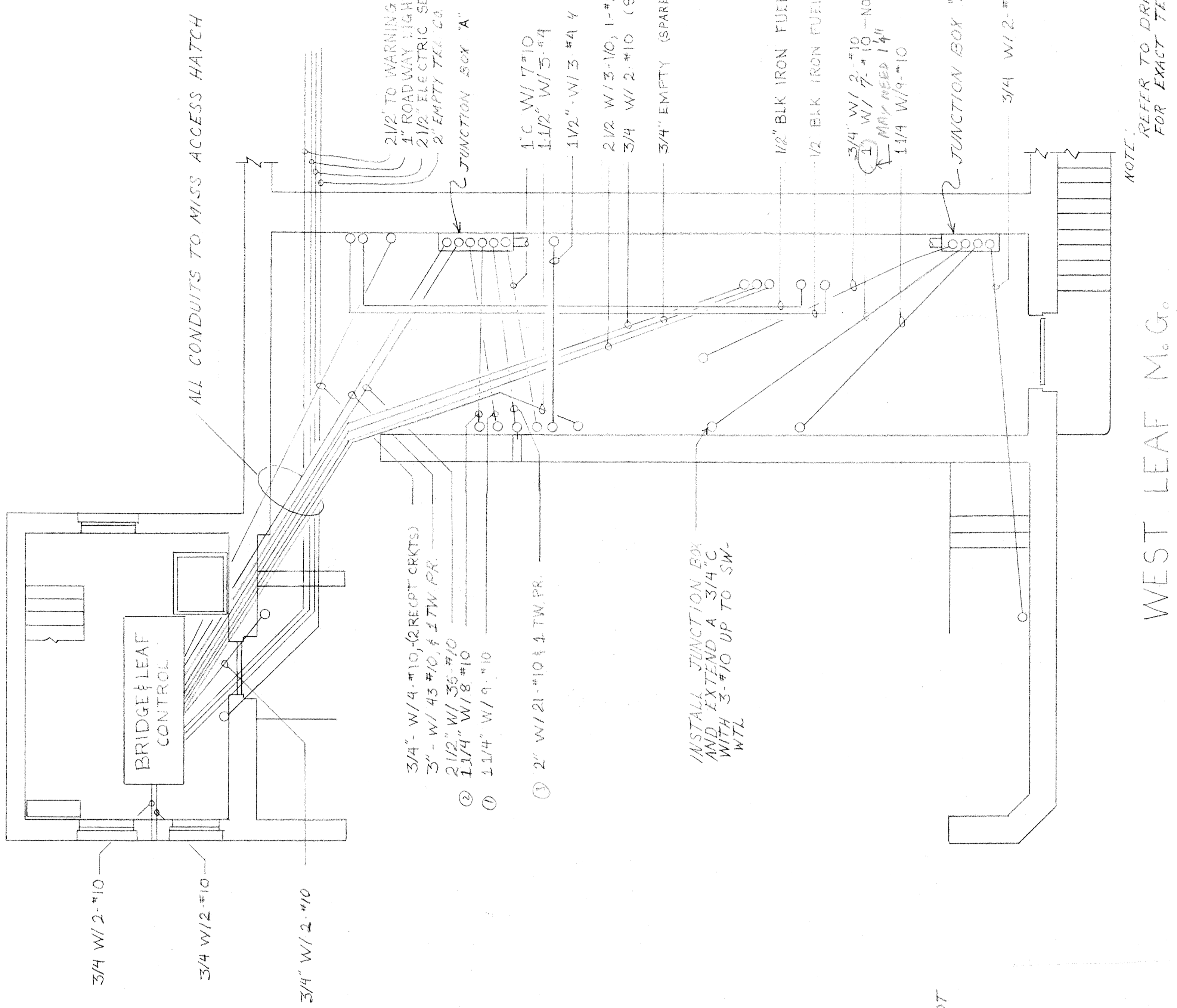
TUDOR ELECTRIC

DRAWING NUMBER GSD-1

APPROVED BY

DATE 6-27-62

DRAWN BY



LEAF CONTROL SECTION  
WITH DOORS REMOVED  
N.T.S.

WEST LEAF M.G.

NOTE: REFER TO DRAWING DP-1 REVISED FOR EXACT TERMINATION OF CONDUITS

JUL 29 1982

HARDESTY & HANOVER CONSULTING ENGINEERS

Pat Cox

APPROVED AS NOTED   
NOT APPROVED  REUSE AND RESUBMIT   
Checking is only for conformance with the design concept of the Project and compliance with the International Electrical Code. It is not intended to be a substitute for the professional judgment of the engineer or architect. The contractor is responsible for the correct installation of the work and for the safety of the workmen. The engineer or architect is not responsible for the construction of the work of all trades.

3/4" W/ 2-#10 - NOTE (S) CONDUIT AND WIRE OVERHEAD MAY BE 1 1/4" FROM JUNCTION BOX A  
1 1/4" W/ 9-#10

1/2" BLK IRON FUEL RETURN  
1/2" BLK IRON FUEL SUPPLY

INSTALL JUNCTION BOX AND EXTEND A 3/4" C WITH 3-#10 UP TO SW- WTL

3/4" W/ 2-#10 (START CONTROL)

2 1/2" W/ 3-#10, 1-#2, 1-#2-#10

1 1/2" W/ 3-#4

1" C W/ 7-#10

2" JUNCTION BOX A

3/4" W/ 4-#10, (2 RECEPT CRKTS)  
3" - W/ 43-#10, 4 TW PR.  
2 1/2" W/ 36-#10  
1 1/4" W/ 8-#10  
1 1/4" W/ 9-#10

2 1/2" TO WARNING GATES W/ 34-#10 & 1 TW PR  
4" ROADWAY LIGHTS W/ 2-#10  
2 1/2" ELECTRIC SERVICE W/ 3-2/0 & 1-#2  
2" EMPTY TEL. CO. CONDUIT

ALL CONDUITS TO MISS ACCESS HATCH

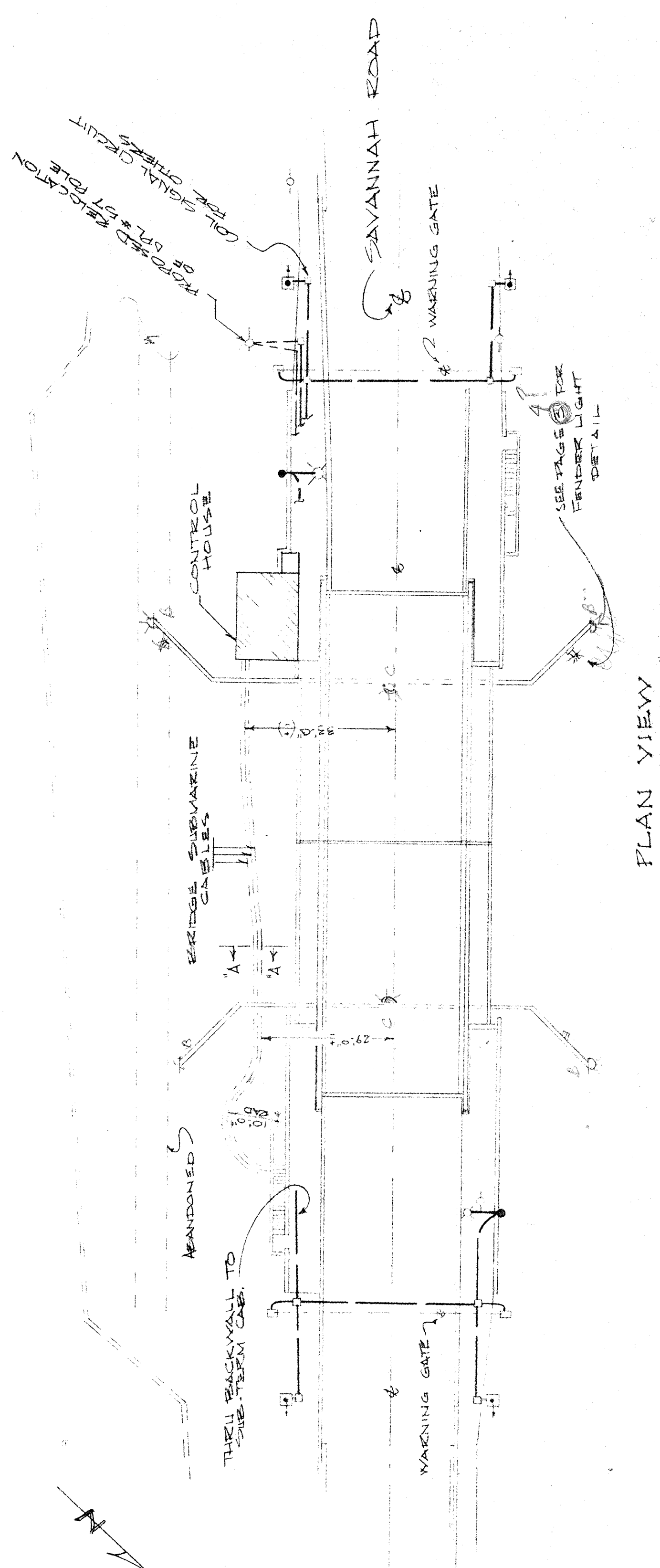
3/4" W/ 2-#10

3/4" W/ 2-#10

3/4" W/ 2-#10

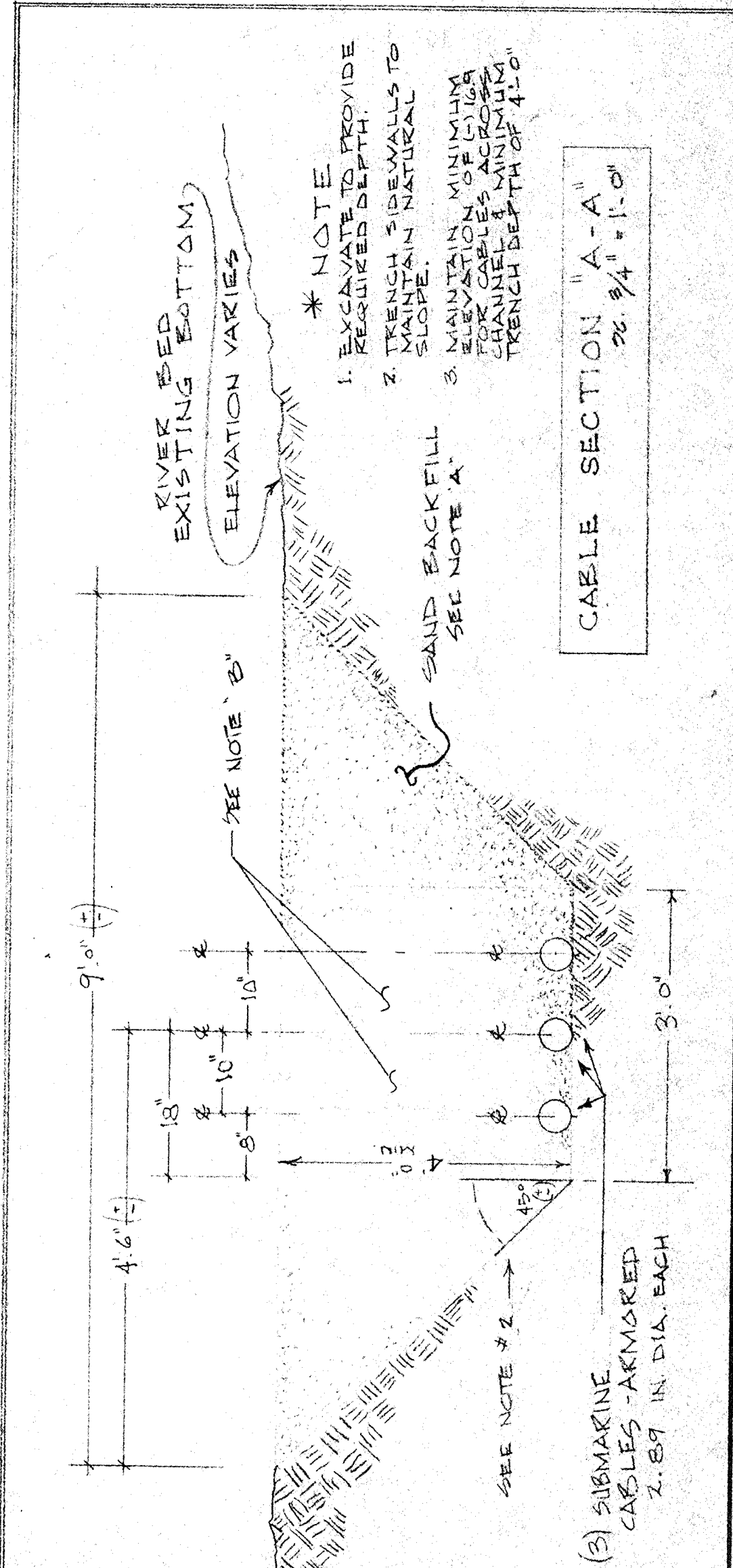
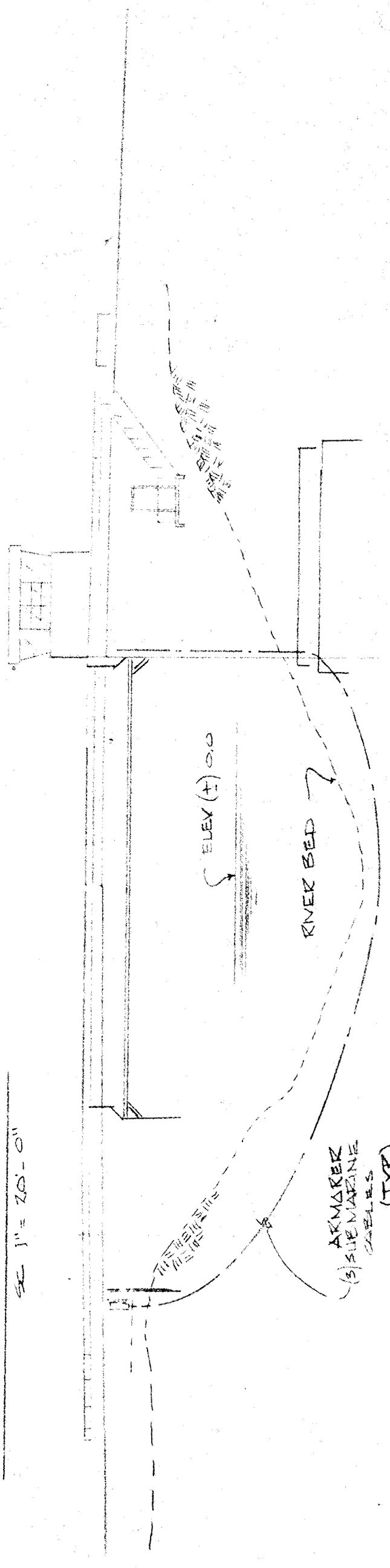
BRIDGE LEAF CONTROL

SAVANNAH BRIDGE RR	
SCALE: 1/4" = 1'	APPROVED BY:
DATE: 6-23-82	DRAWN BY: 2/22/82
DECK POUR-2	
TUDOR ELECTRIC	
DRAWING NUMBER: DP-2	

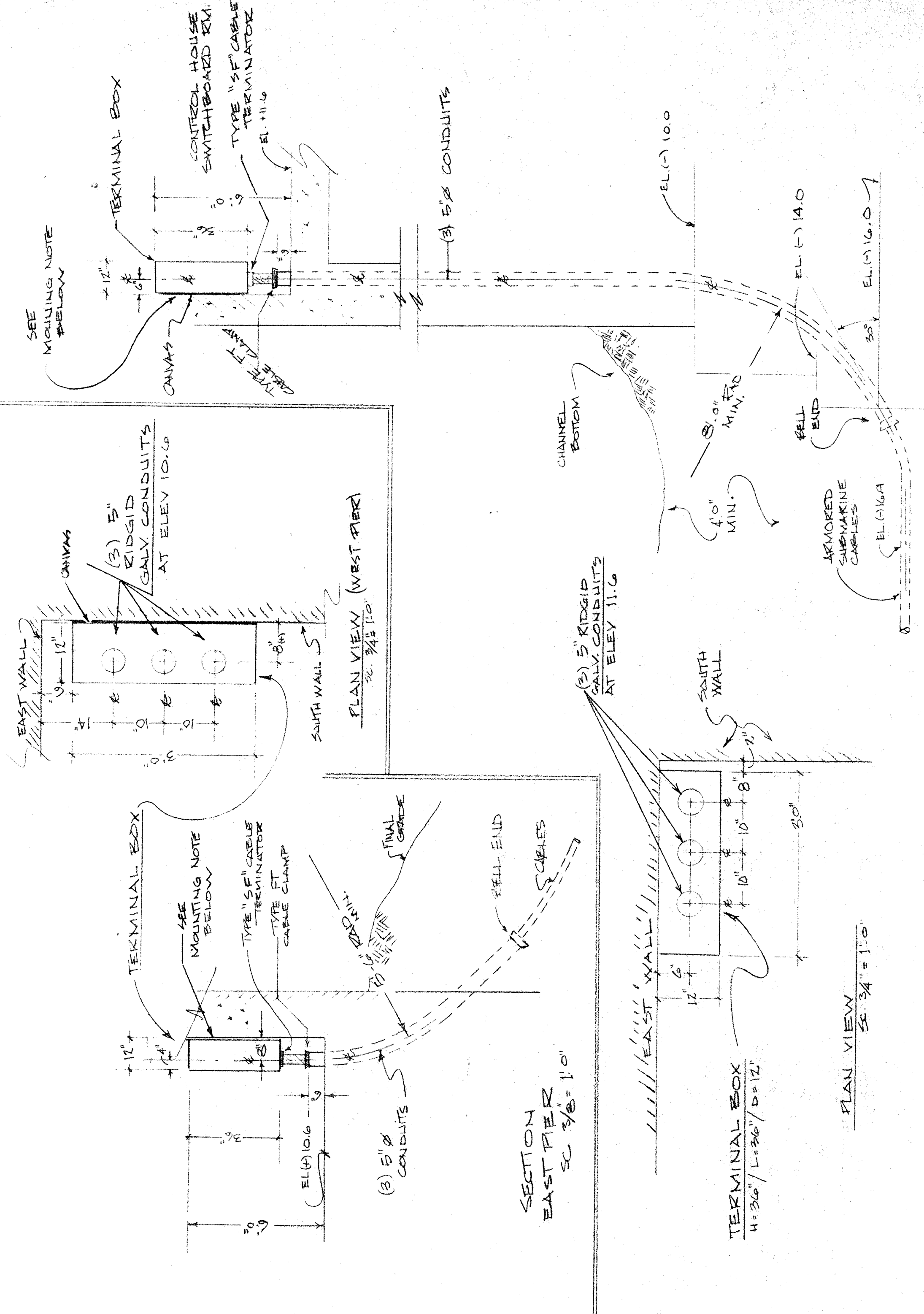


PLAN VIEW  
SC: 1" = 20'-0"

TYP. ELEVATION  
SC: 1" = 20'-0"



CABLE SECTION "A-A"  
SC: 3/4" = 1'-0"



SECTION EAST PIER  
SC: 3/8" = 1'-0"

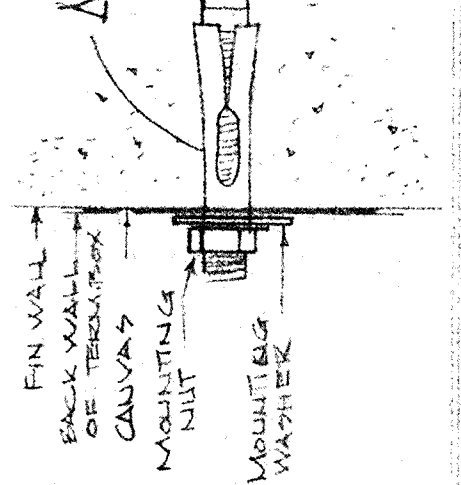
PLAN VIEW  
SC: 3/4" = 1'-0"

SECTION WEST PIER  
SC: 3/8" = 1'-0"

**MOUNTING NOTE**

1. SUBMARINE CABLE TERMINAL BOX TO BE MOUNTED TO WALL WITH EXPANSION (WEDGE TYPE) ANCHORS DRILLED INTO CONCRETE WITH CARBIDE BIT. AS DESCRIBED ON CONTRACT SPECS. PAGE 184.
2. BETWEEN SUB CABLE TER. BOX & WALL 1/2" BE RED LEAD. INSTALLATION TO BE AS PER PAGE 183 OF CONTRACT SPECS.

**ANCHOR DETAIL**  
NO SCALE



- NOTE "A"** - PRIOR TO BACKFILLING: EACH CABLE SHALL BE TESTED TO DETERMINE ITS INSULATION RESISTANCE TO GROUND.
2. SIX COPIES OF THE TEST REPORT SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
  3. DIVER HAS DIRECTLY REPORTED TO THE ENGINEER THAT CABLES HAVE BEEN PROPERLY PLACED IN THE EXCAVATED TRENCH AND THE ENGINEER HAS GIVEN HIS APPROVAL FOR BACKFILLING.

**NOTE "B"**  
SPACING TO BE MAINTAINED - NO CABLE CROSSOVER ALLOWED

REVISION AND RESUBMIT  APPROVED AS NOTED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is only for conformity with the information contained in the Project and drawings with the information contained in the Contract Documents. Consultant is responsible for the accuracy of the information provided to the Client. The Client is responsible for the accuracy of the information provided to the Consultant. The Consultant is not responsible for the construction of the work of all trades, construction, and for the safety of the work.

HARDESTY & HANOVER  
CONSULTING ENGINEERS

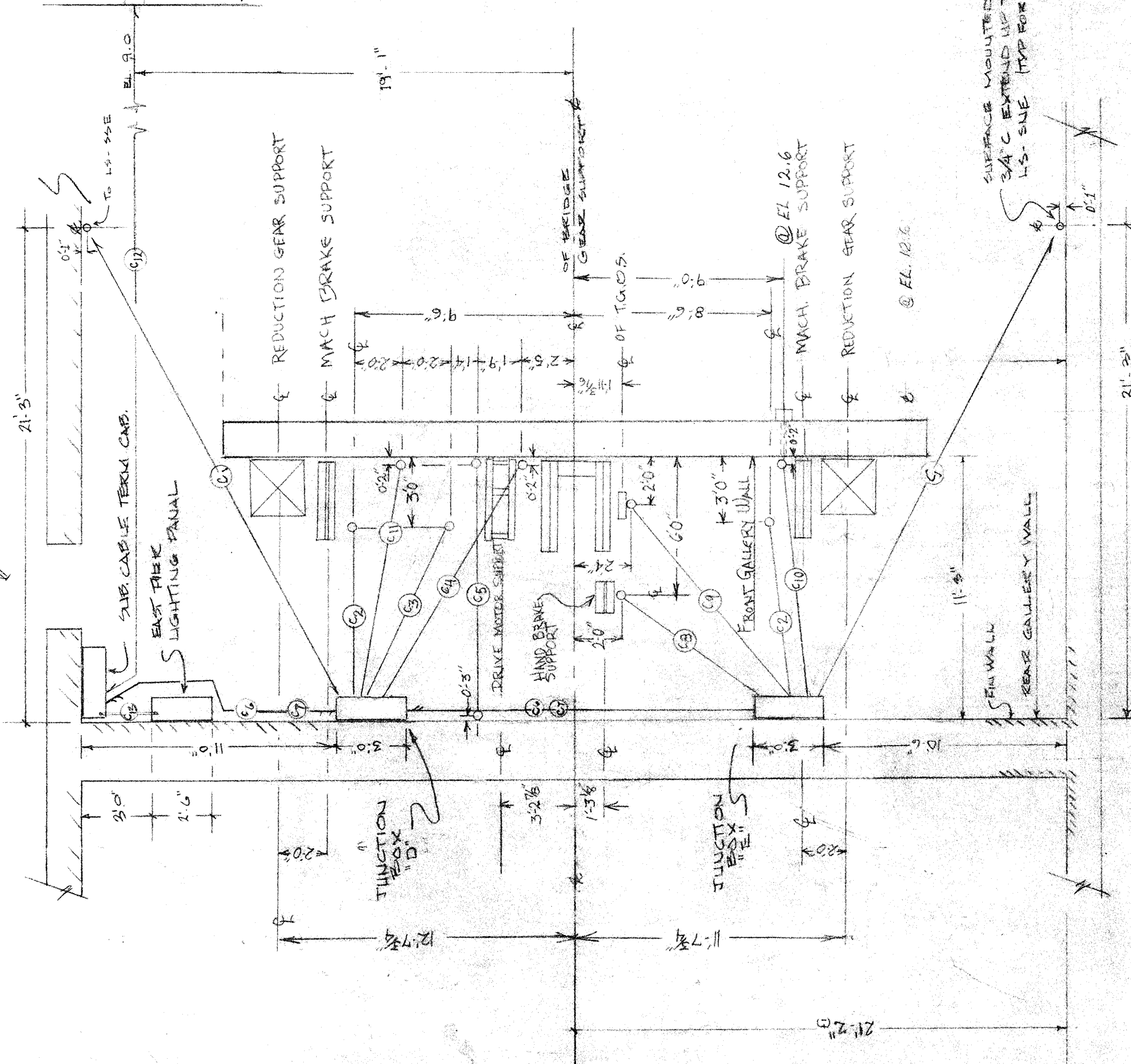
OCT 26 1982







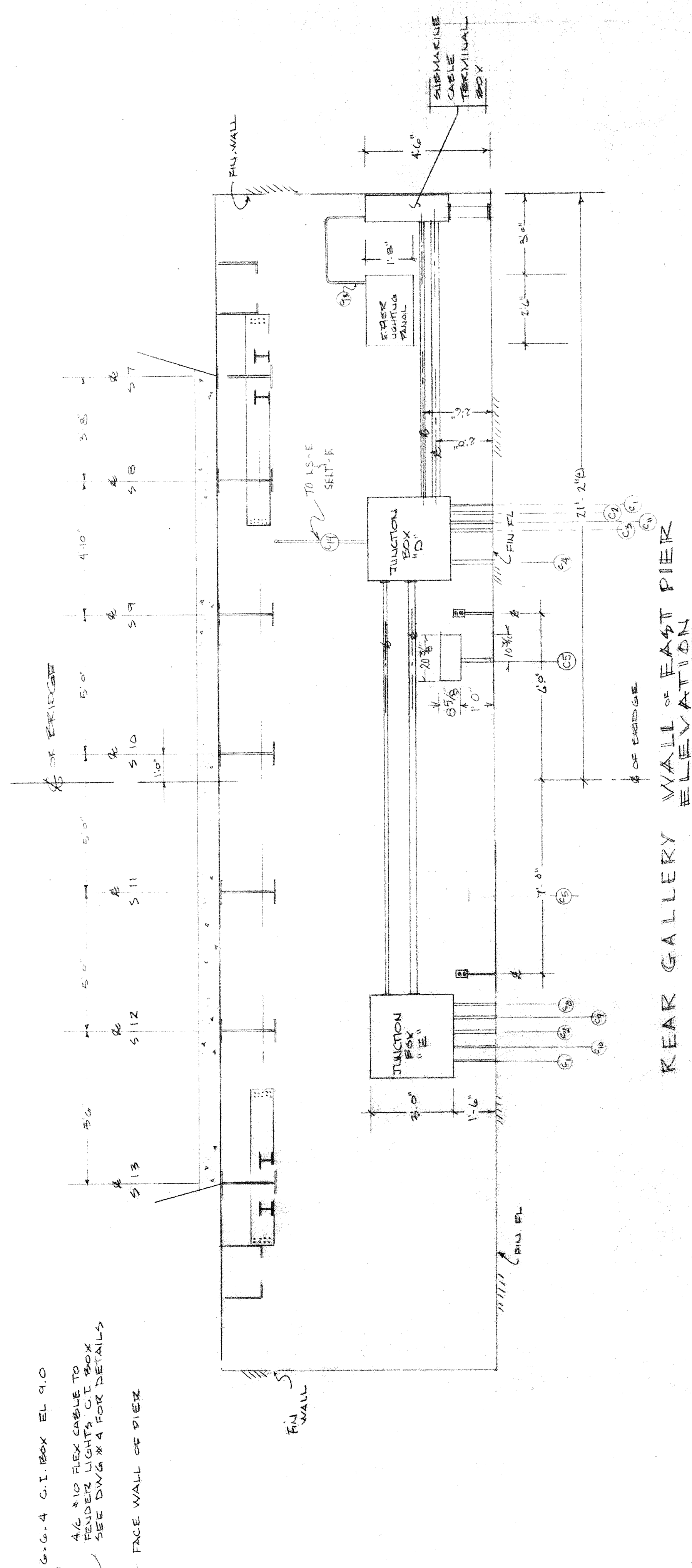




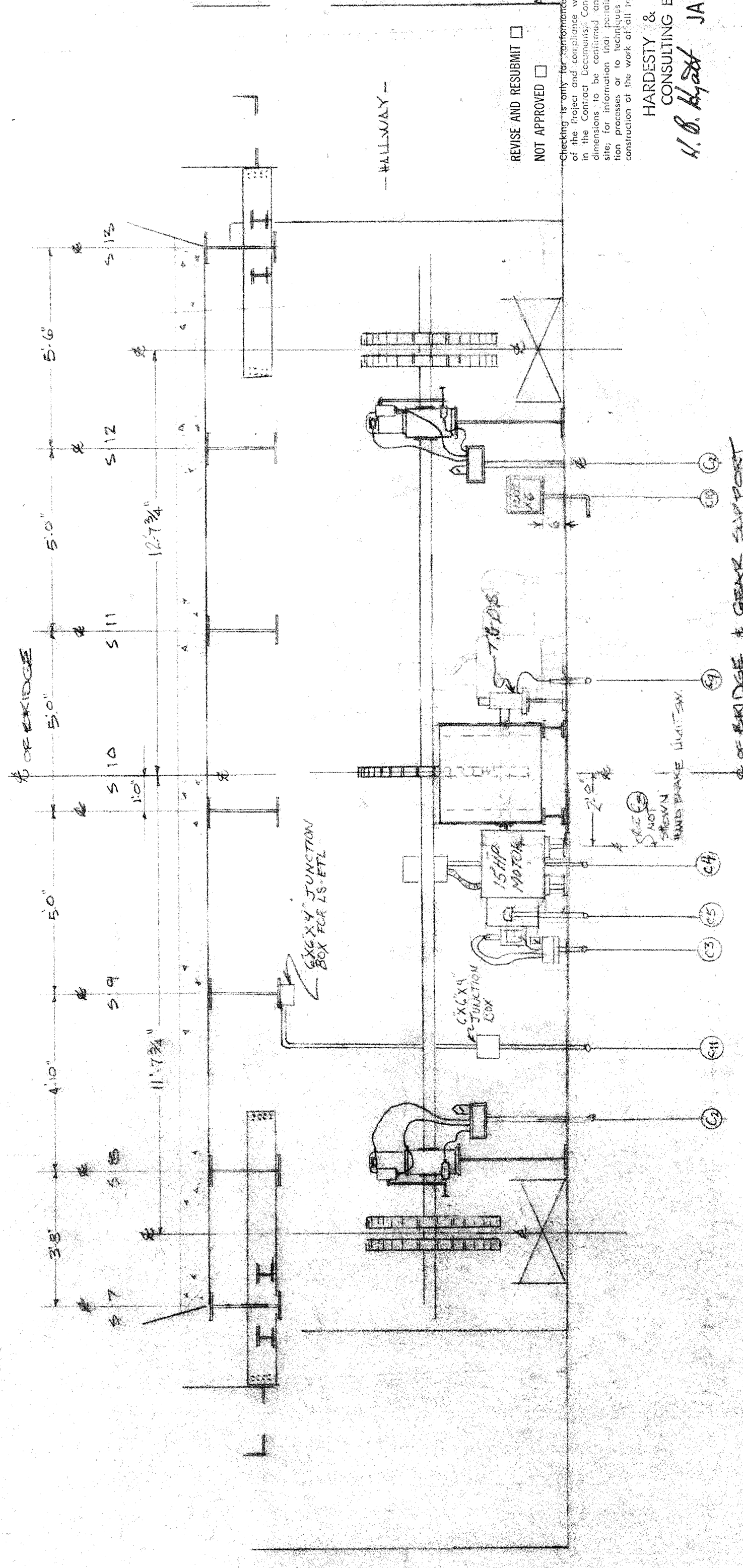
**EAST PIER CONDUIT RUNS**  
SC 14" = 1'-0"

**CONDUIT LEGEND**

- C1 2" 3/4" W/ (2) #10 IN EA. CONDUIT - 1-2" C W/ 2#10 TO LS-SNE (1-2" C W/ 2 #10 TO LS-SNE)
- C2 1 1/2" W/ (4) #10 TO MACH. BRAKE
- C3 1 1/2" W/ (7) #10 TO MACH. BRAKE
- C4 1 1/2" W/ (3) #4 TO M.G. 10 HORSE
- C5 1 1/2" W/ (3) #4 (RESERVE LINE CONDUIT)
- C6 2 1/2" W/ (8) #10 FROM JUNCTION TO JUNCTION
- C7 2 1/2" W/ (8) #10 FROM JUNCTION TO JUNCTION
- C8 1 1/2" W/ (3) #10 TO HAND BRAKE LIMIT SWITCH
- C9 1 1/2" W/ (3) #10 TO PARKING LIGHTS
- C10 1 1/2" W/ (3) #10 TO LS-LET
- C11 1 1/2" W/ (2) #10 TO FENDER LIGHTS
- C12 1 1/2" W/ (3) #10 TO LIGHTING PANEL
- C13 1 1/2" W/ (3) #10 TO LS-E BELT
- C14 2" C



**REAR GALLERY WALL OF EAST PIER ELEVATION**  
SC 3/8" = 1'-0"

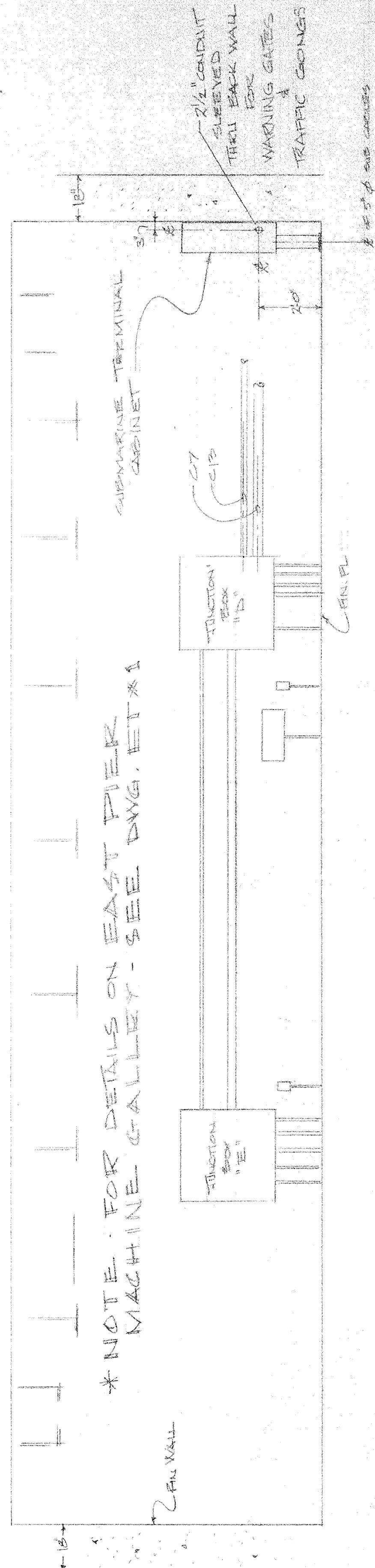


**FRONT GALLERY WALL OF EAST PIER ELEVATION**  
SC 3/8" = 1'-0"

REVISION AND RESUBMIT NOT APPROVED  APPROVED AS NOTED   
 HARDISTY & HANOVER CONSULTING ENGINEERS  
 1.8.1988 JAN 10 1983

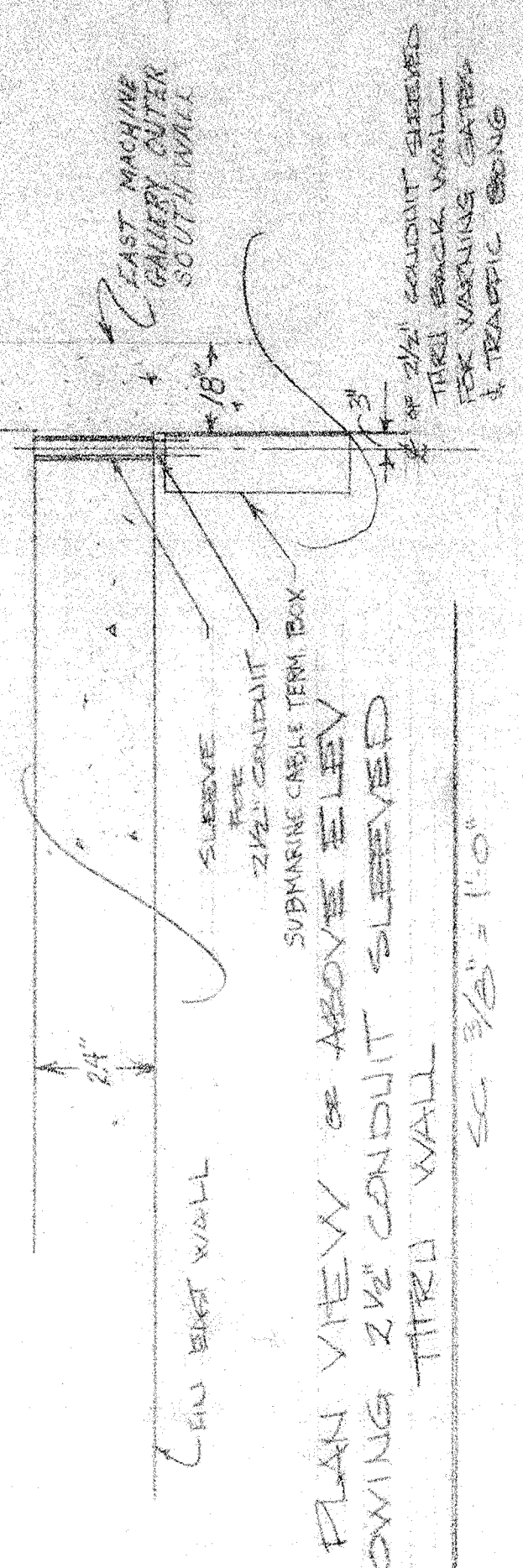
**SAVANNAH BRIDGE**  
 LEWIS DEL  
 DRAWN BY  
 DATE 9/13/82  
 EXETER - CONDUIT RUNS - ELEVATIONS  
 TUDOR ELECTRIC POWER  
 DRAWING NUMBER  
 E.T. #1  
 OFFICE COPY

\* NOTE: FOR DETAILS ON EAST PIER MACHINE GALLERY - SEE DWG. ET-1



PLAN VIEW OF EAST SIDE (MACH GALLERY) EAST WALL SHOWING LOCATION OF 2 1/2" CONDUIT SLEEVED THRU BACK WALL

SC 3/8" = 1'-0"



PLAN VIEW OF ABOVE ELEV SHOWING 2 1/2" CONDUIT SLEEVED THRU WALL

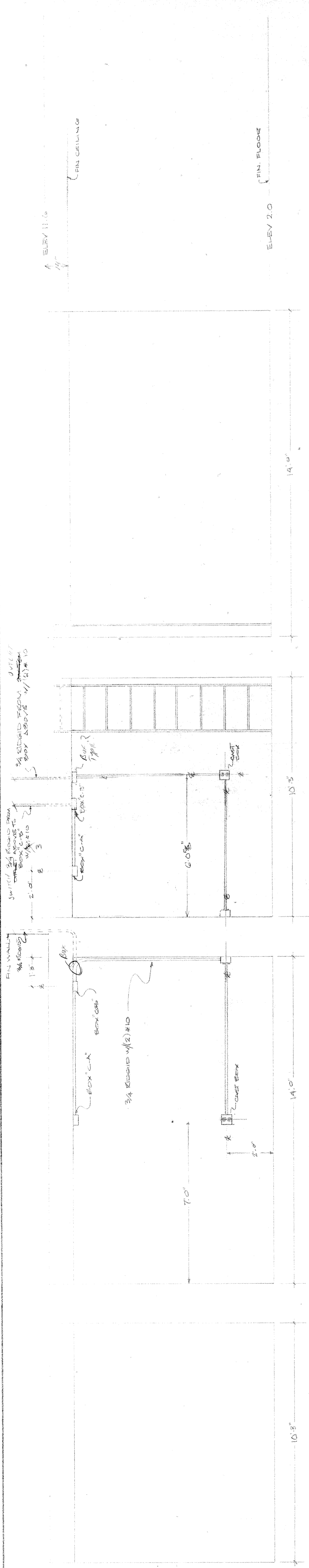
SC 3/8" = 1'-0"

REVISE AND RESUBMIT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Check for compliance with the design conditions of the project and compliance with the information shown on the drawings. If any discrepancies are noted, the drawings should be corrected and resubmitted at the project site for information that pending approval, the contractor shall be responsible for the construction of the work of all trades.

HARDISTY & HANOVER  
 CONSULTING ENGINEERS  
 11.6.14.84 JAN 18 1983

SAVANNAH RD BRIDGE  
 LEWIS DEL  
 SLEEVE FOR EAST MACHINE GALLERY  
 TUDOR Z ELEC DEL  
 DRAWN BY: [Signature]  
 DATE: 3/8/83  
 SCALE: 3/8" = 1'-0"  
 APPROVED BY: [Signature]  
 PREPARED BY: [Signature]  
 ET-2

OFFICE COPY

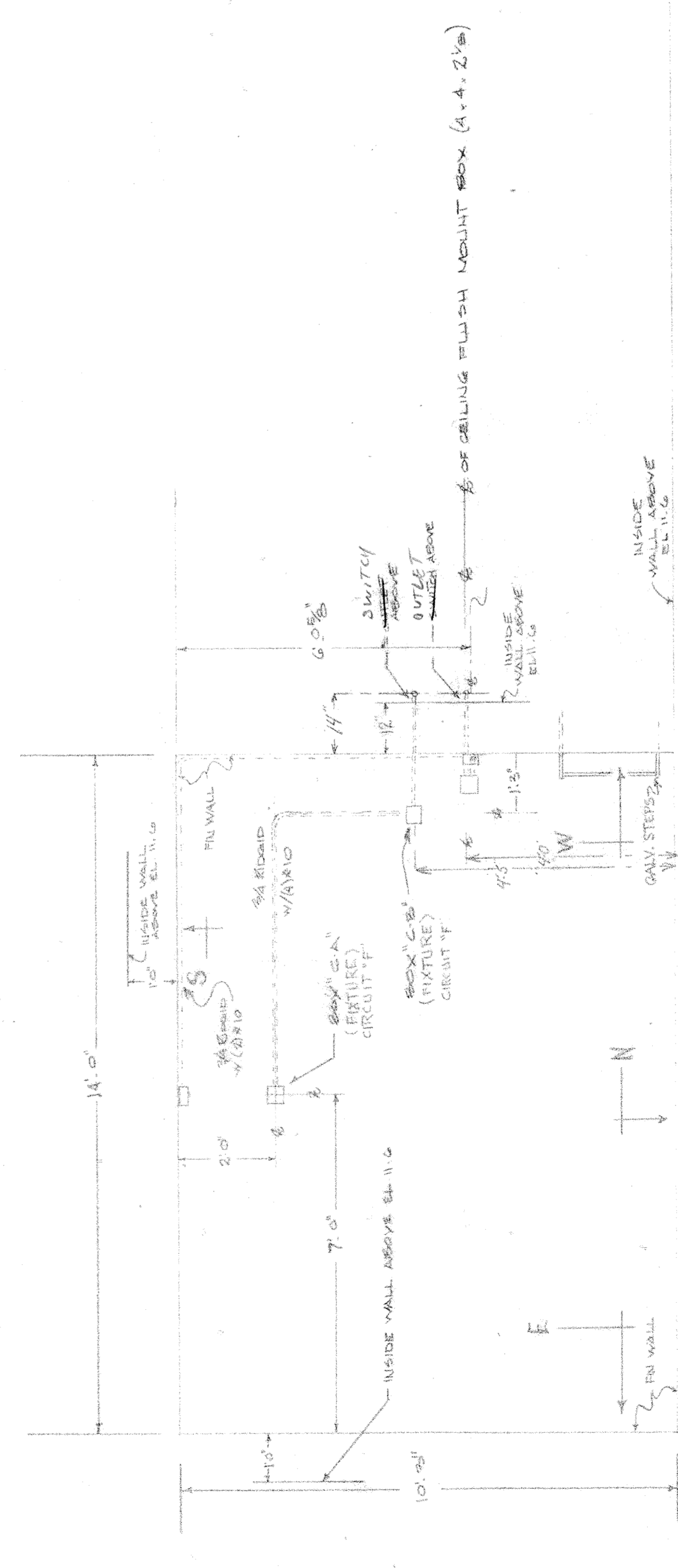


NORTH INT. WALL

WEST INT. WALL

SOUTH INT. WALL

ELEVATIONS OF WALLS  
SCALE: 1/8" = 1'-0" (max)



PLAN VIEW  
SCALE: 1/8" = 1'-0"

REVISE AND RESUBMIT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is only for conformity with the design code in the Contract Documents. Contractor is responsible for the design. Information that pertains solely to the contractor's process or work of all trades, supplementary and not contractually required, is not to be included in the contract documents.  
**HARDESTY & HANOVER**  
 CONSULTING ENGINEERS  
*Pat Cury*  
**DEC 13 1982**

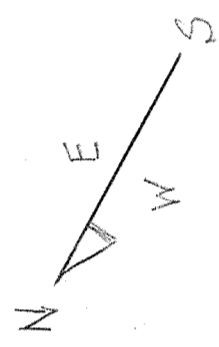
SAVANNAH RD BRIDGE  
 LEWIS DEL  
 DRAWN BY  
 SCALE AS NOTED  
 DATE 11/23/82  
 APPROVED BY  
 STORAGE RM. LIGHTS & RECP  
 TUDOR ELEC DOREY DEL  
 DRAWING NUMBER  
 SR18-1



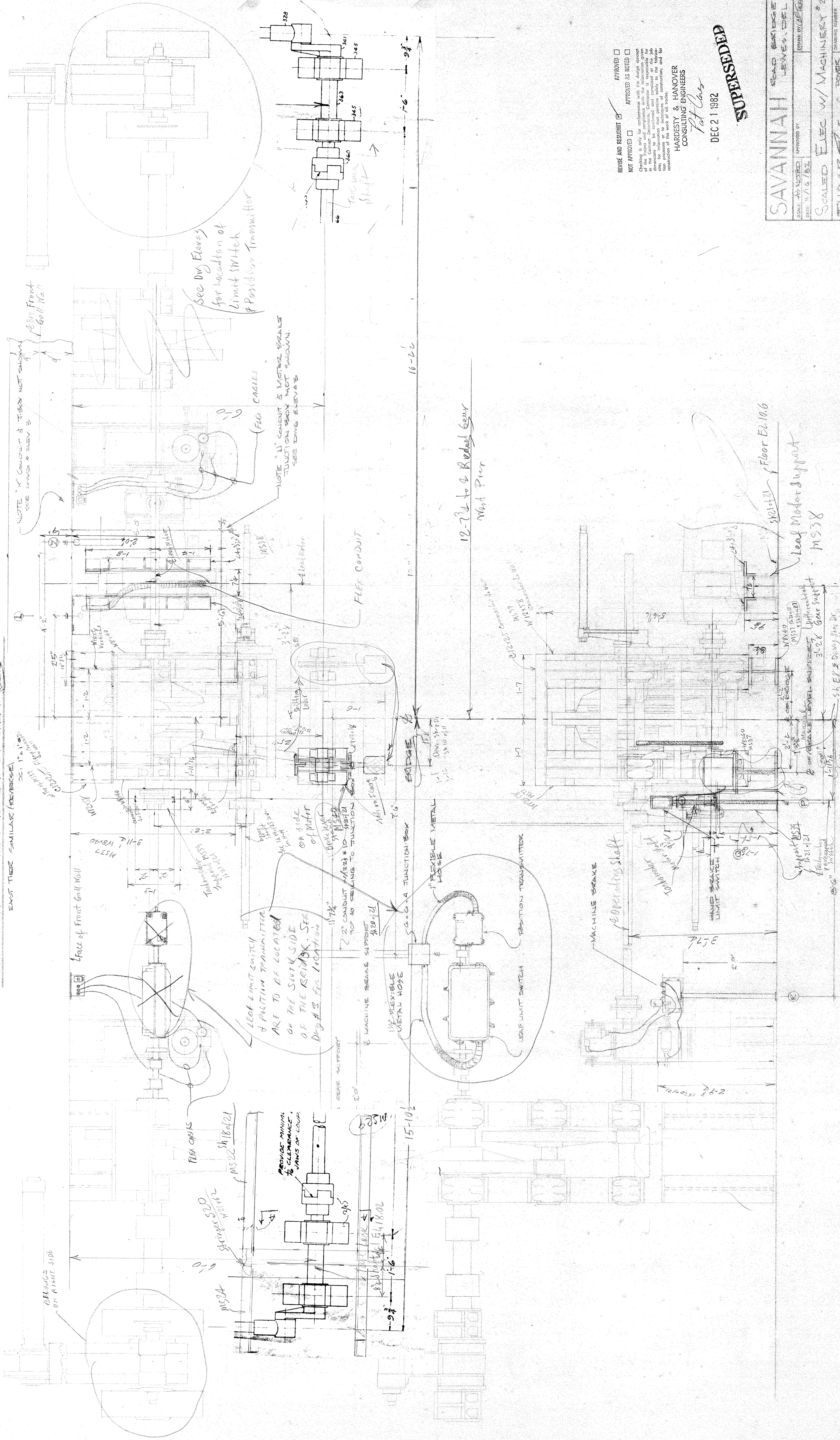








PIER  
PLAN VIEW OF MACHINE GALLEY WEST (REVISED)  
EAST THESE SIMILAR (REVERSE)



REVISE AND RESUBMIT  APPROVED   
NOT APPROVED  APPROVED AS NOTED   
This drawing is subject to change without notice. It is the responsibility of the user to verify the information shown on this drawing against the actual work. The user is responsible for obtaining all necessary permits and for compliance with all applicable codes and regulations. The user is also responsible for providing all necessary information for the completion of the work.

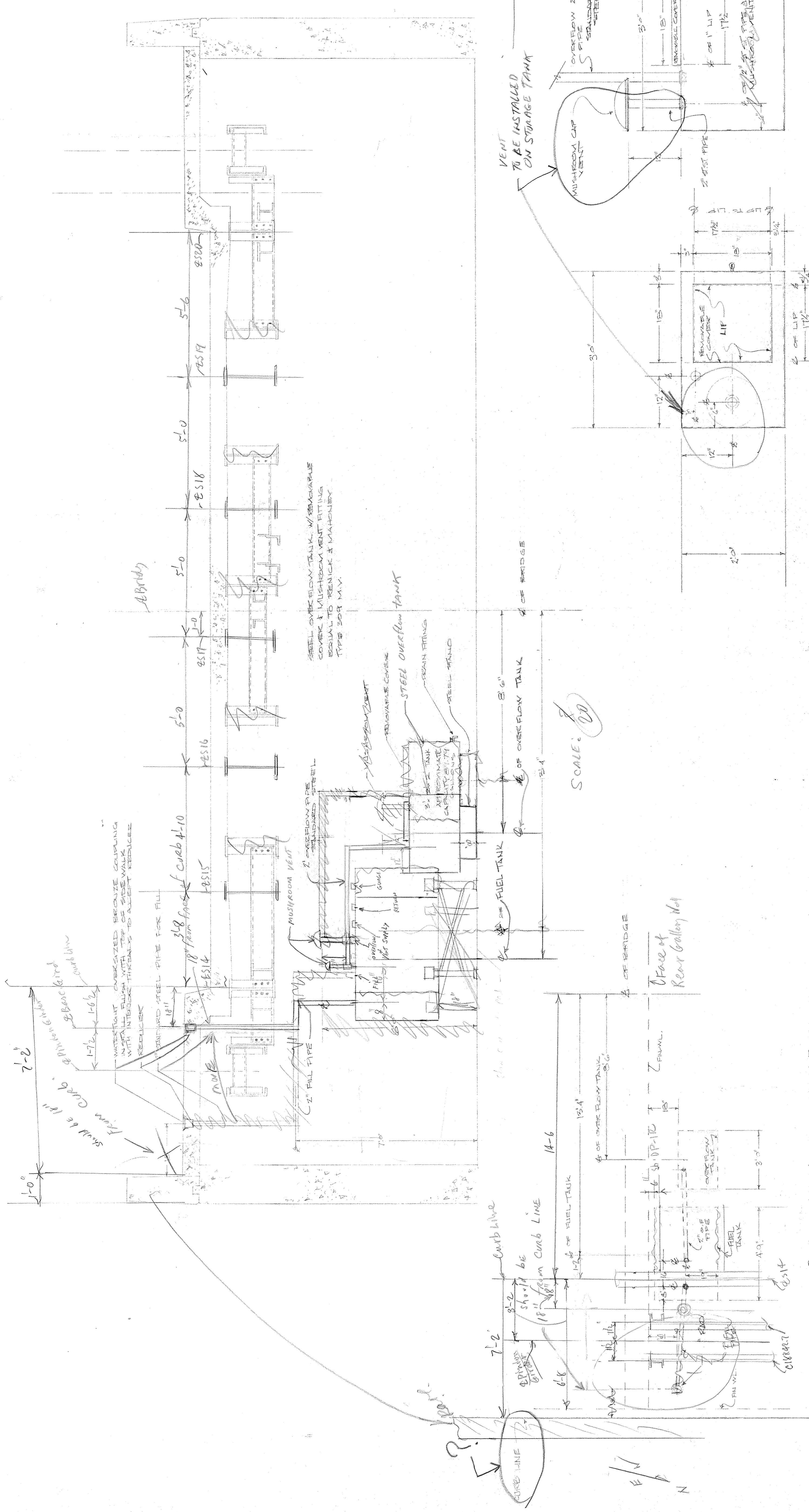
HARDESTY & HANOVER  
CONSULTING ENGINEERS  
Pat Carls

DEC 21 1982

**SUPERSEDED**

SAVANNAH	READ BRIDGE
LEWES, DEL	
SCALE: AS NOTED	APPROVED BY:
DATE: 11/12/82	BY: [Signature]
SCALED ELEC W/ MACHINERY 2	
TUDOR	ELEC CO POWER DEL
	DRAWING NUMBER: ELSY 84





PLAN VIEW SHOWING LOCATION OF HOLE FOR FILL PIPE  
SCALE: 3/8" = 1'-0"

PLAN VIEW OF OVERFLOW TANK  
SCALE: 1" = 1'-0"

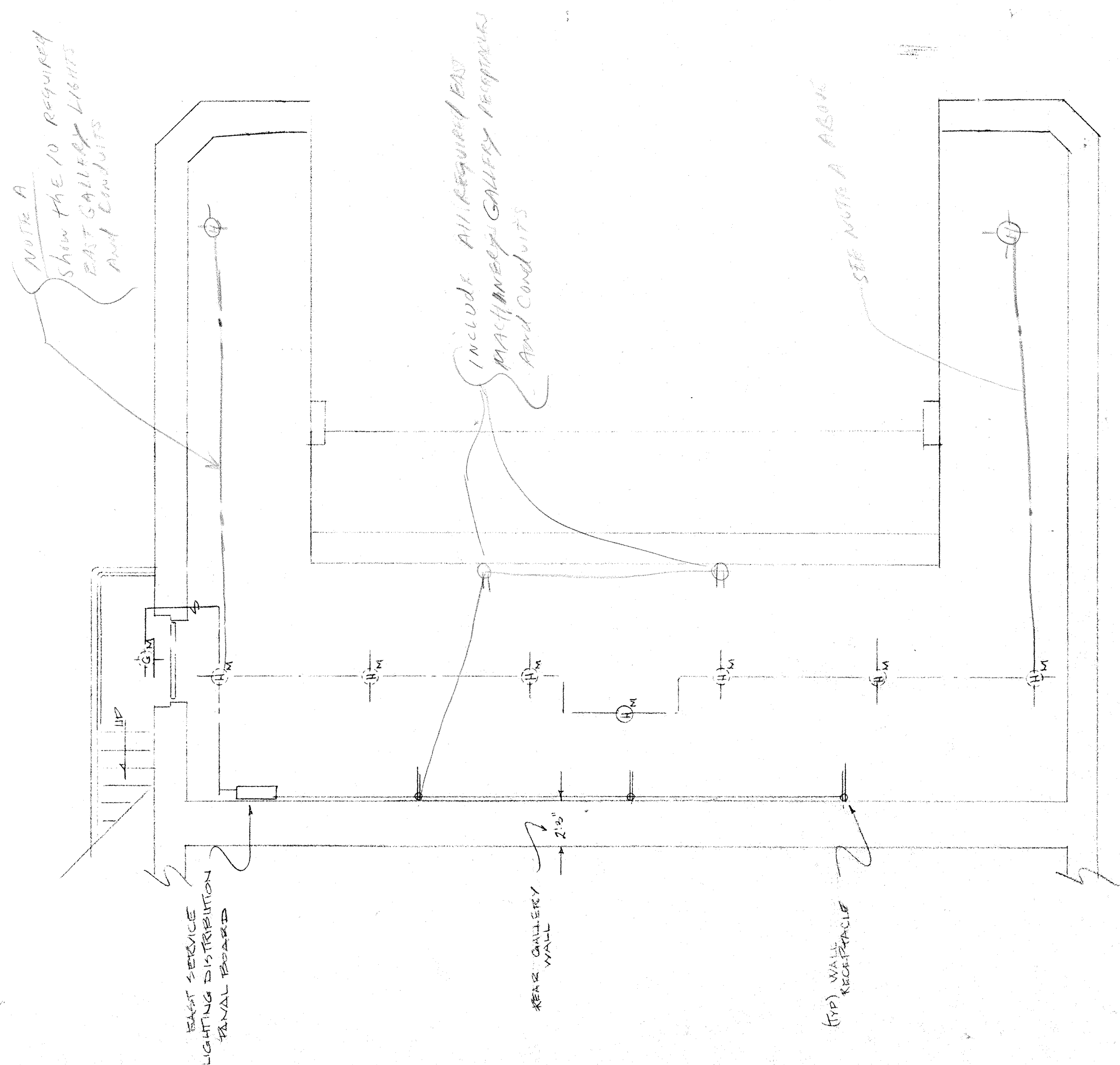
ELEVATIONS SIDE

OVERFLOW TANK NOTES  
1. TANK TO BE MADE OF STEEL

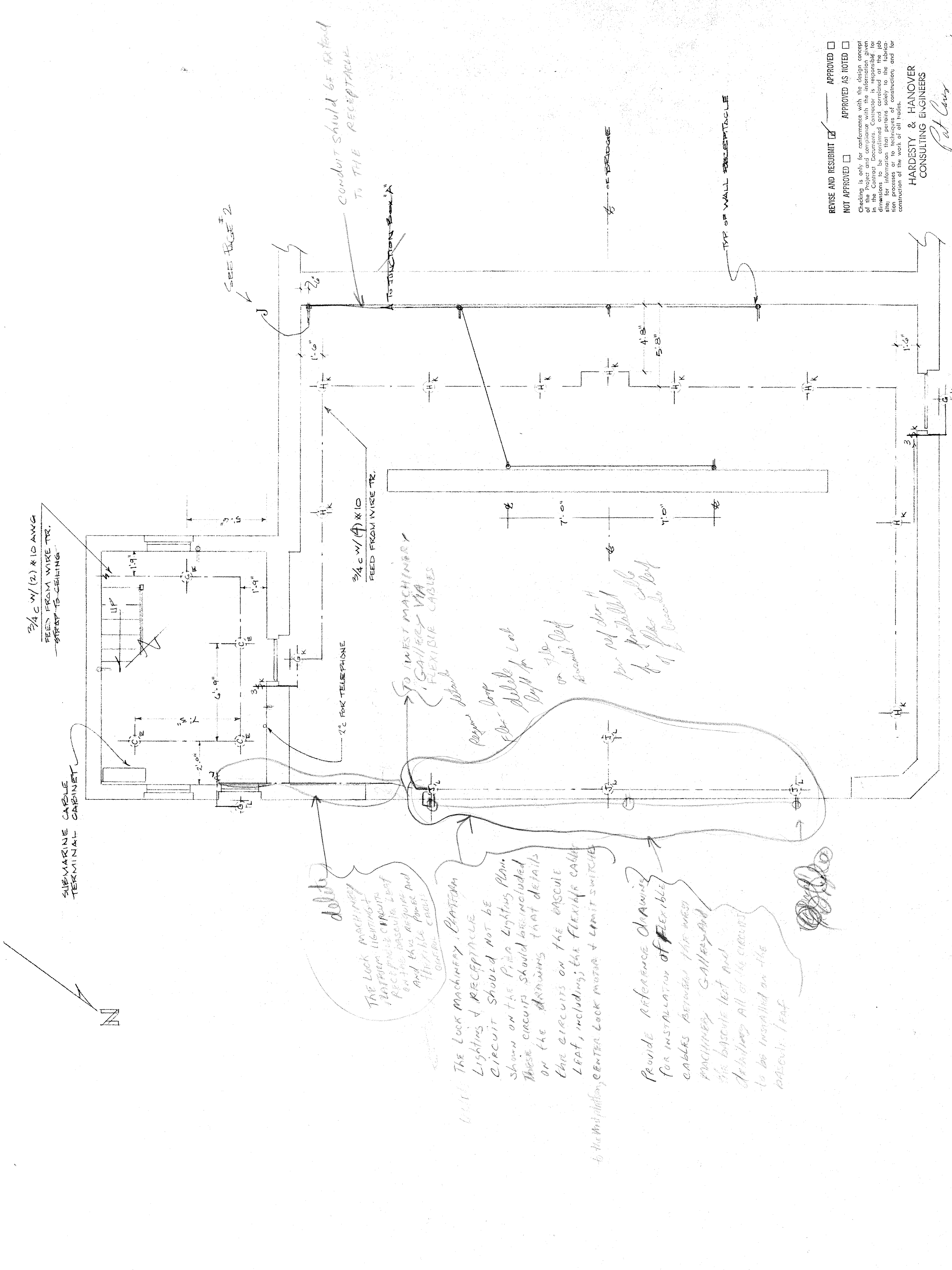
REVISION AND RESUBMIT  APPROVED   
NOT APPROVED  APPROVED AS NOTED

Office Copy  
DATE 12/07/82  
APPROVED BY  
DRAWN BY  
SAVANDEP  
SUPERVISOR  
TUDOR ELEC  
FT-2

HARDISTY & HANOVER  
CONSULTING ENGINEERS  
DEC 28 1982  
OFFICE COPY



= EAST =  
MACHINERY PLATFORM



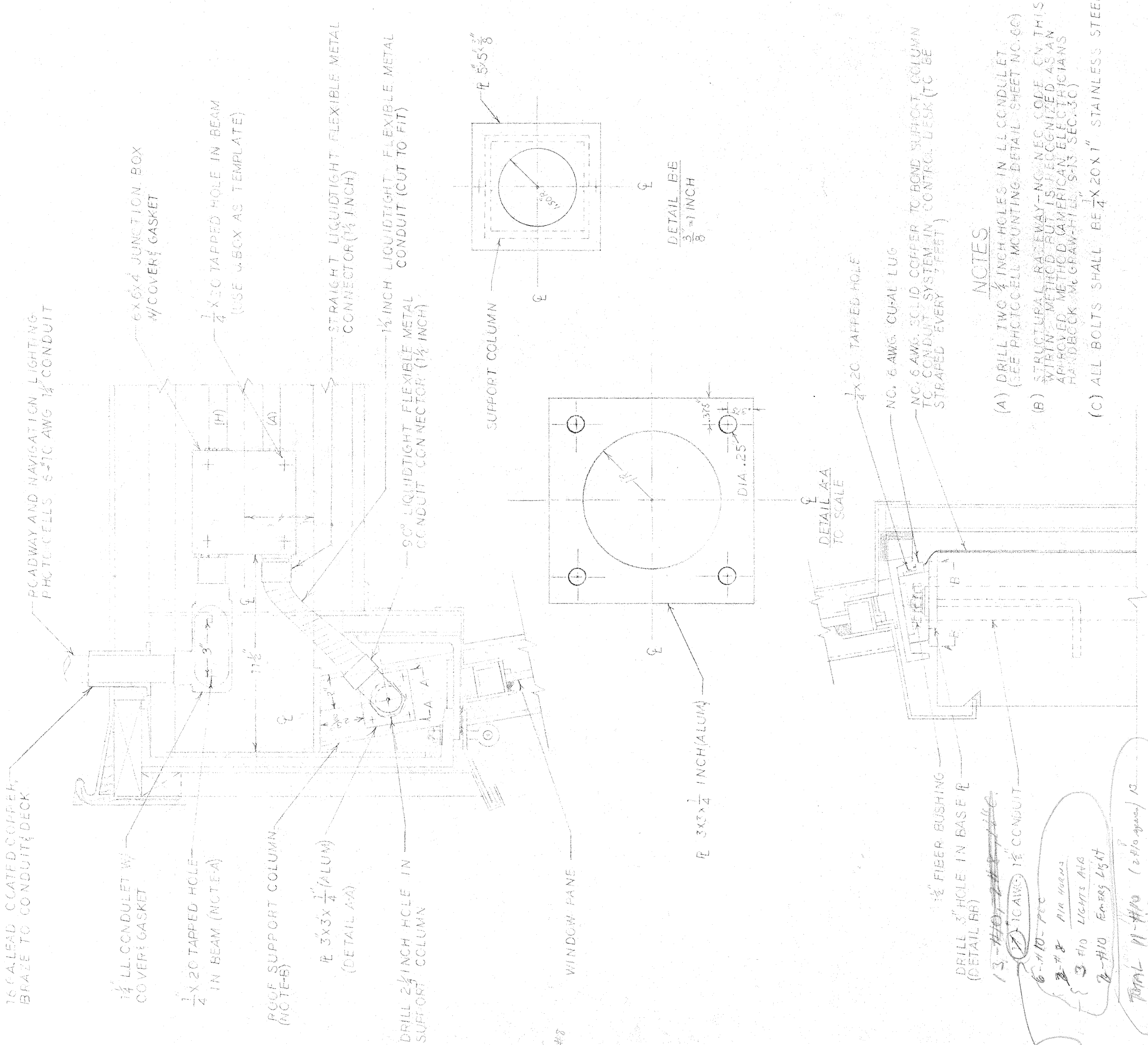
= WEST =  
MACHINERY PLATFORM

REVISE AND RESUBMIT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Consulting to verify for compliance with the design concept of the project and compliance with the information given in the Contract documents. The design is subject to change. This information that pertains to the job is for the use of the contractor and is not to be used for the construction of the work of all trades, machinery and for other purposes.

HARDESTY & HANOVER  
CONSULTING ENGINEERS  
Pat Lewis  
OCT 26 1982

**SUPERSEDED**

CREDIT LINE	
$\frac{1}{2}$ "	SHROUSE MOUNT LIGHT
$\frac{3}{4}$ "	CEILING MOUNT LIGHT CONCEALED IN SLAB
$\frac{3}{8}$ "	WALL MOUNT LIGHT
$\frac{1}{2}$ "	EMERGENCY LIGHT
<b>SAVANNAH BRIDGE</b>	
LEWIS, DEL	
SCALE: AS NOTED	APPROVED BY
DATE: 9/16/82	DRAWN BY: C. J. [unclear]
EAST & WEST MACHINERY PLATFORM LIGHTING LAYOUT	
TUDOR ELEC DEL	NOV 82
	DRAWING NUMBER: 81-1-1



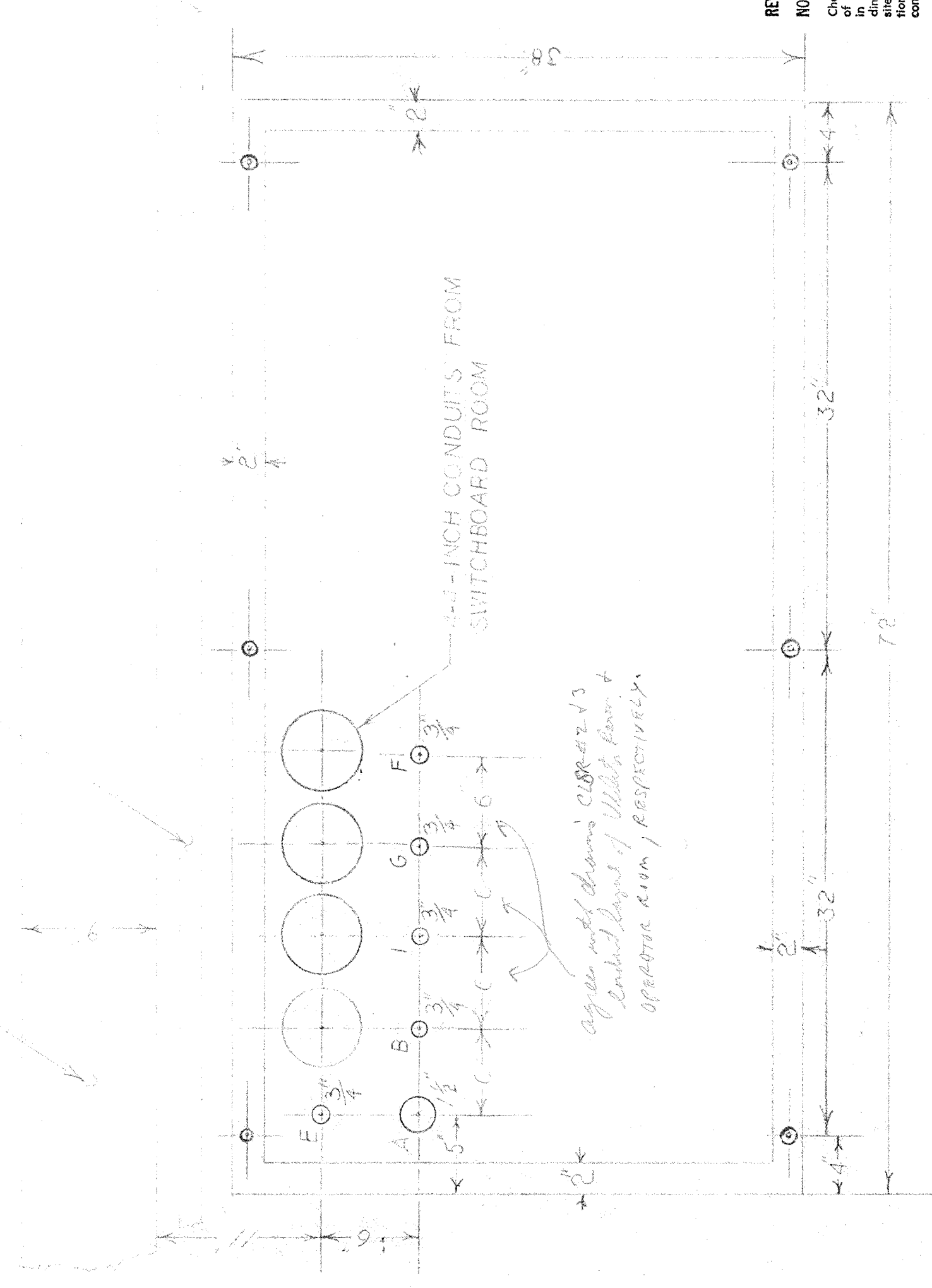
P124 T-20  
 Light AIR - v-#10  
 Acc's - 6-#10  
 AH - 2-#8  
 Eng. Light - 2-#10  
 THOR (2-#10), 2-#8

REQUIRE  
 11-#10, 2-#8 MIN  
 6-110-sec  
 2-#8 AIR TUBES  
 3-#10 LIGHTS AND  
 2-#10 ENERGY LIGHT  
 TOTAL 11-#10 (2-#10 spares) 12-#8  
 ANY SPARES

DETAIL AA  
SCALE 3" = 1' FOOT

NOTES

- (A) DRILL TWO 1/2 INCH HOLES IN LL CONDULET (SEE PHOTO CELL MOUNTING DETAIL SHEET NC-60)
- (B) STRUCTURAL BACKWAY-NC-60 (OLF CV-115) WITH 1/2 INCH BUSHINGS IS RECOGNIZED AS AN APPROVED METHOD FOR MOUNTING PHOTO CELLS HANDBOOK NO. GRAW-HILL, S3 (SEC. 3C)
- (C) ALL BOLTS SHALL BE 1/4 X 20 X 1" STAINLESS STEEL



DETAIL BB  
SCALE 1/2" = 1' FOOT

NOTES  
 ALL CONDUITS TO BE ROUNDED TOGETHER WITH BONDING BUSHINGS (USE NO. 6-CU)

SUPERSEDED  
 Provide a better numbering system for your drawings

Approved  
 1-20-82  
 1-20-82

REUSE AND RESUBMIT  APPROVED AS NOTED  AFFECTED   
 This drawing is only for information with the exception of the Contract Documents, Contractor is responsible to the Client for information that pertains solely to the labor conditions of the work shown on this drawing, and for the work shown on this drawing.

HARDSEY & HANOVER  
 CONSULTING ENGINEERS  
 SEP 28 1982



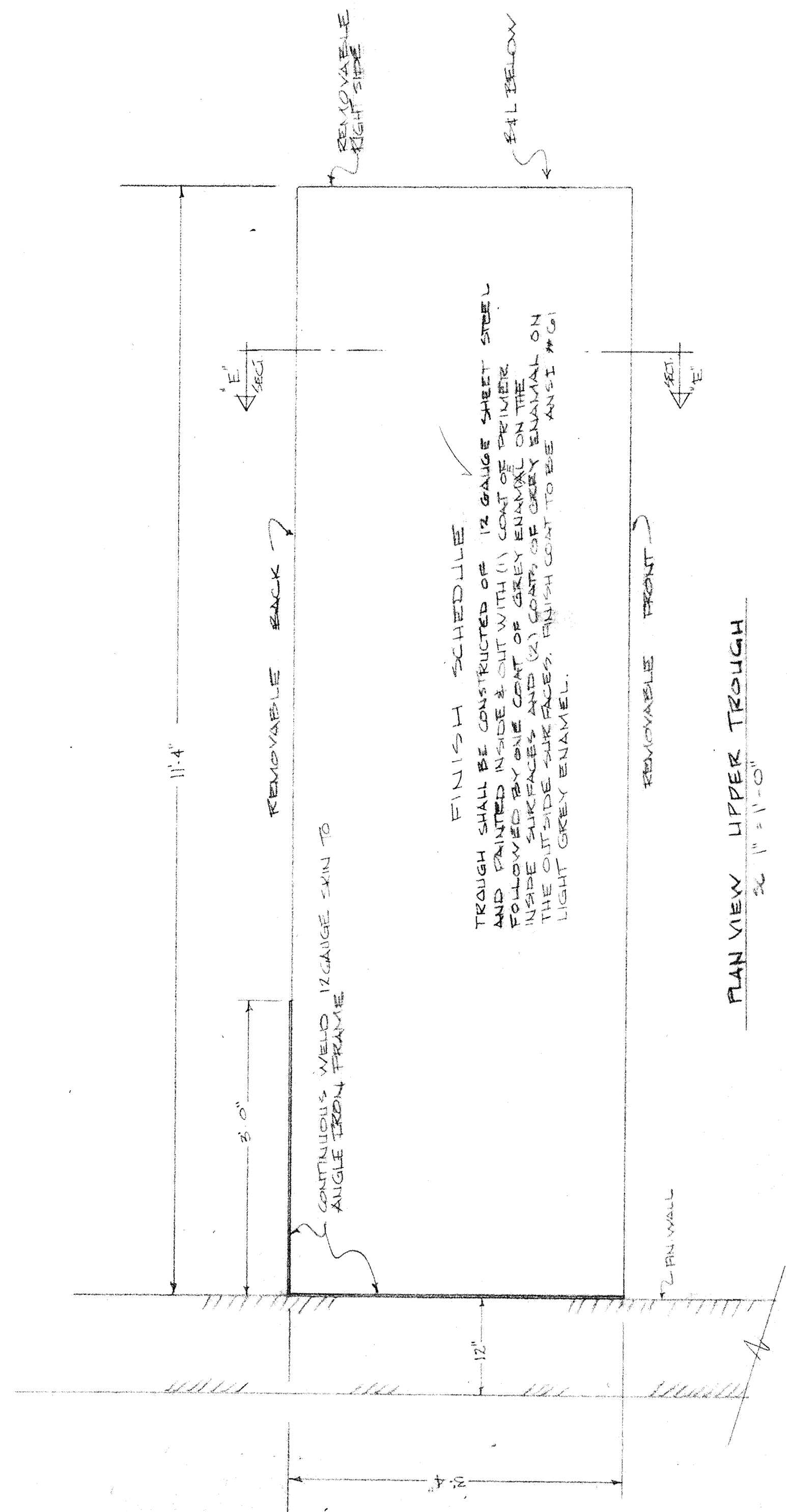
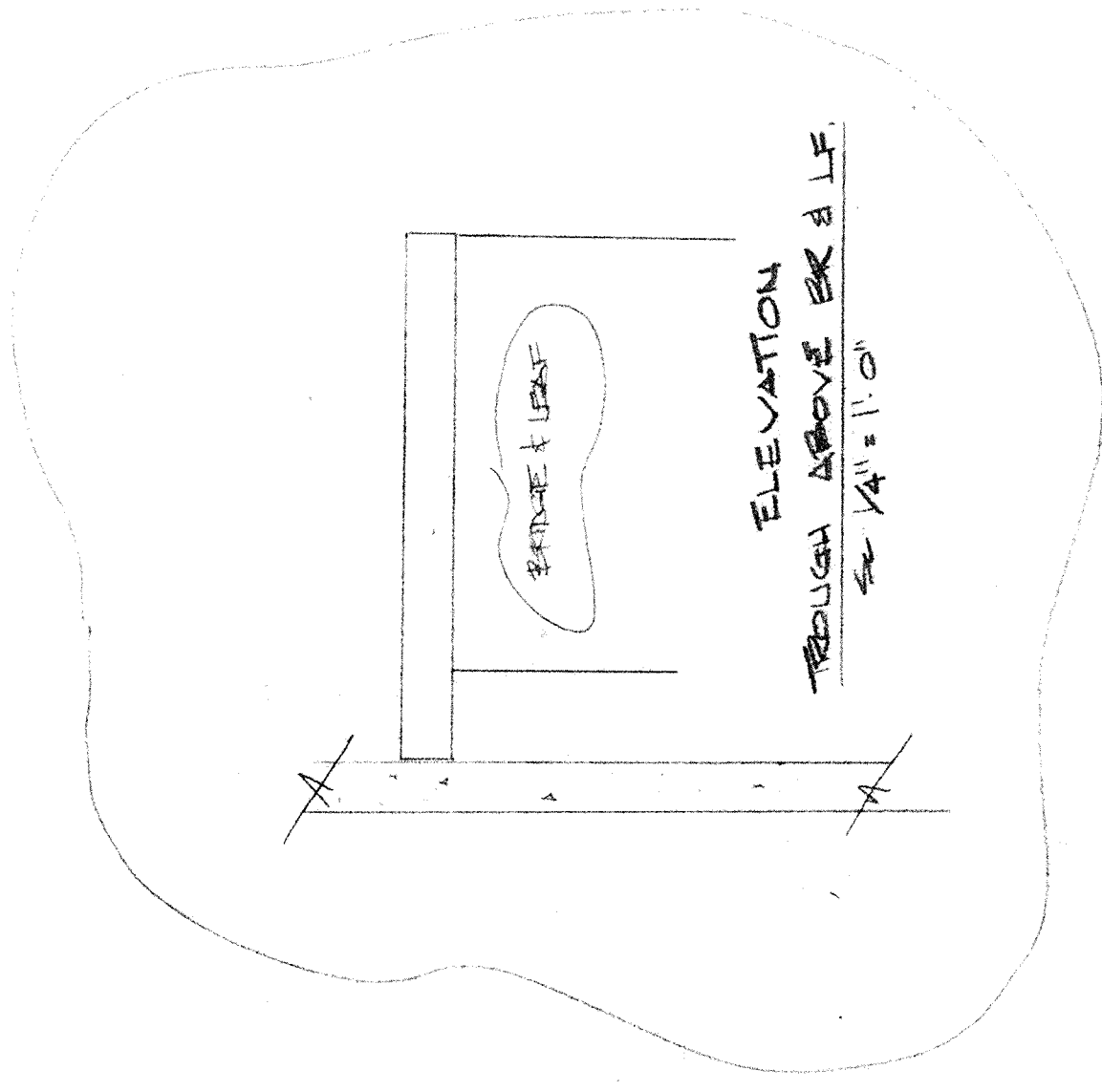






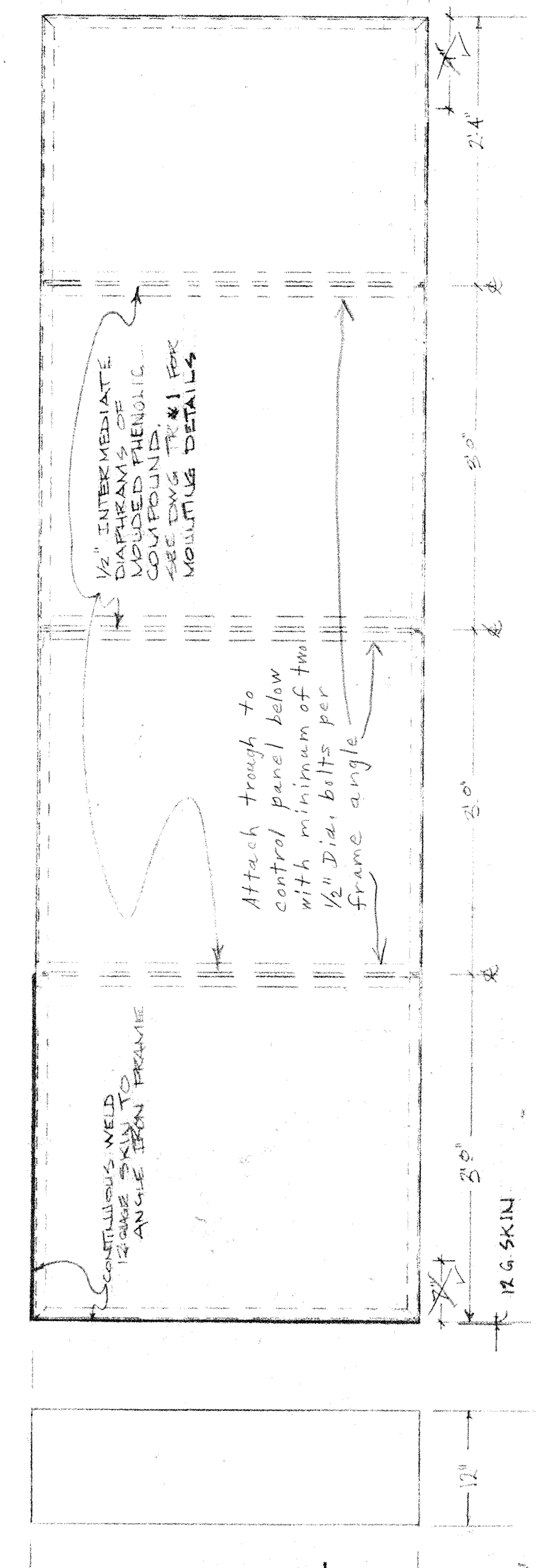
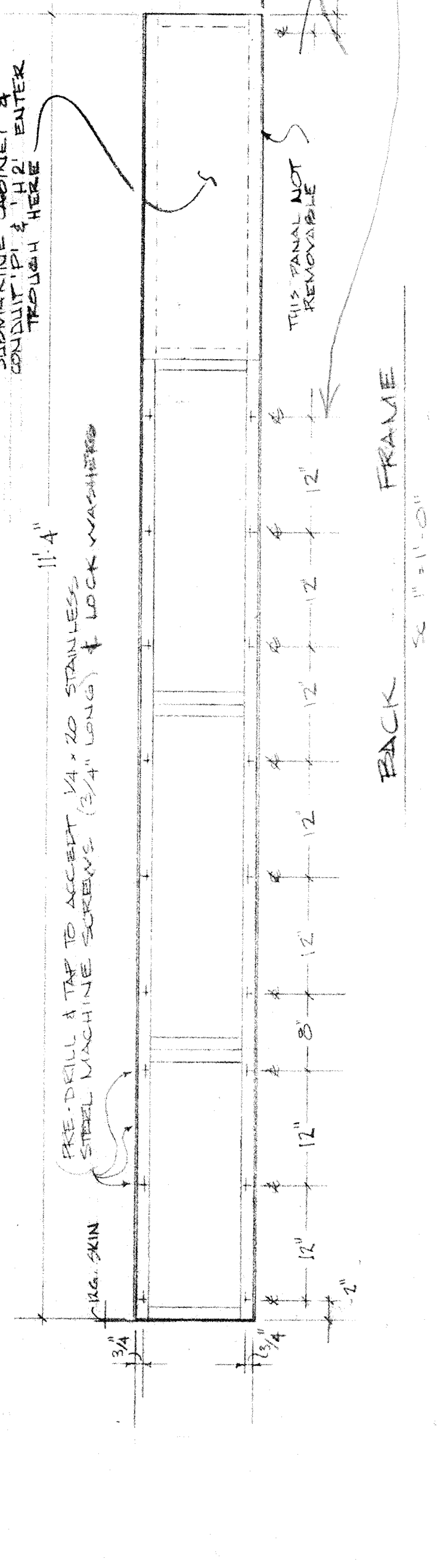


# UPPER TROUGH



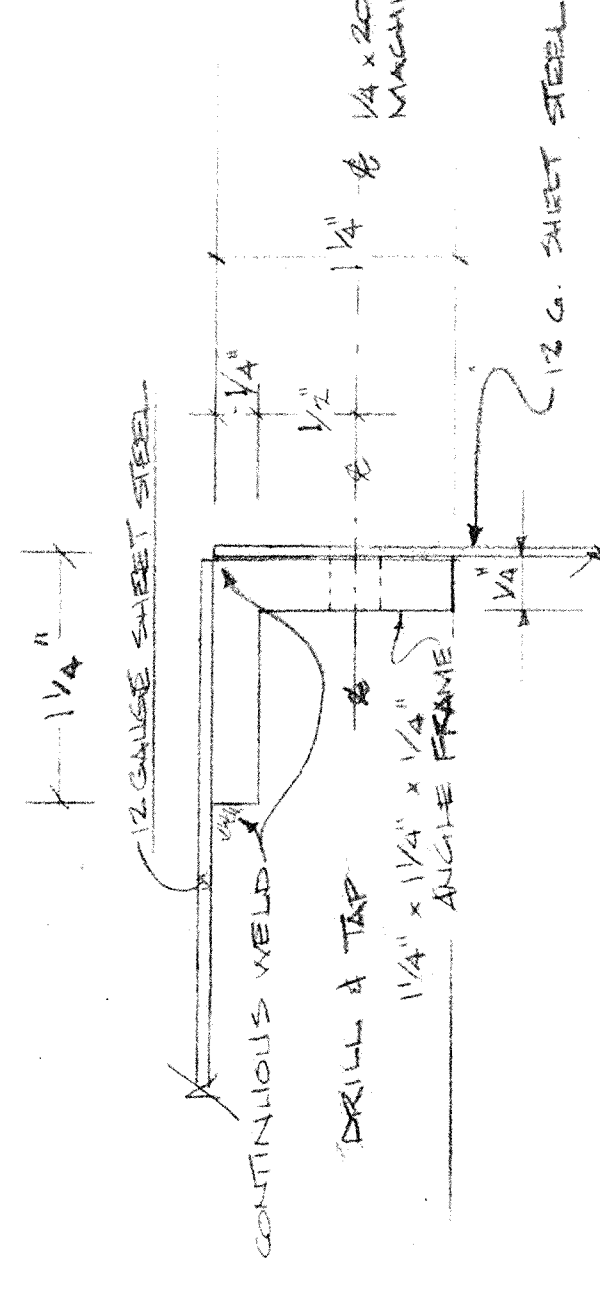
FINISH SCHEDULE  
 TROUGH SHALL BE CONSTRUCTED OF 12 GAUGE SHEET STEEL AND PAINTED INSIDE & OUT WITH (1) COAT OF PRIMER FOLLOWED BY ONE COAT OF GREY ENAMEL ON THE INSIDE SURFACES AND (2) COAT OF GREY ENAMEL ON THE EXTERIOR SURFACES. FINISH COAT TO BE ANSI #2 LIGHT GREY ENAMEL.

SEE NOTE # CLEAR FOR CONDUIT ARRANGEMENT  
 3) 5" CONDUITS FROM SUBMACHINE CABINET & CONDUIT THROUGH HERE ENTER

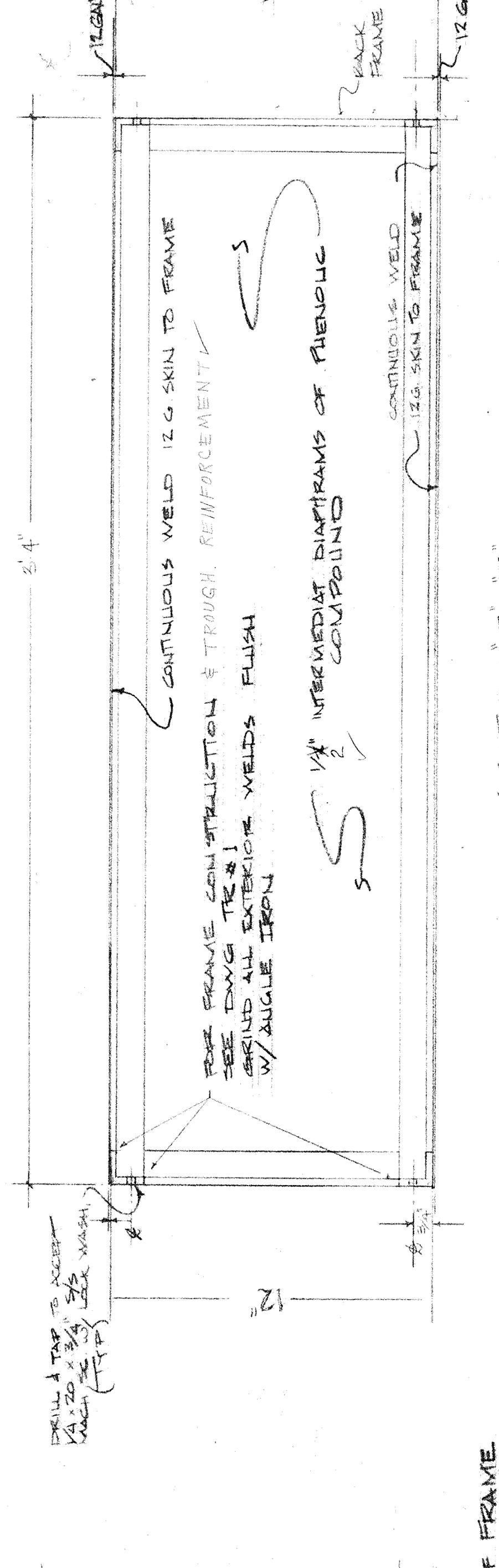
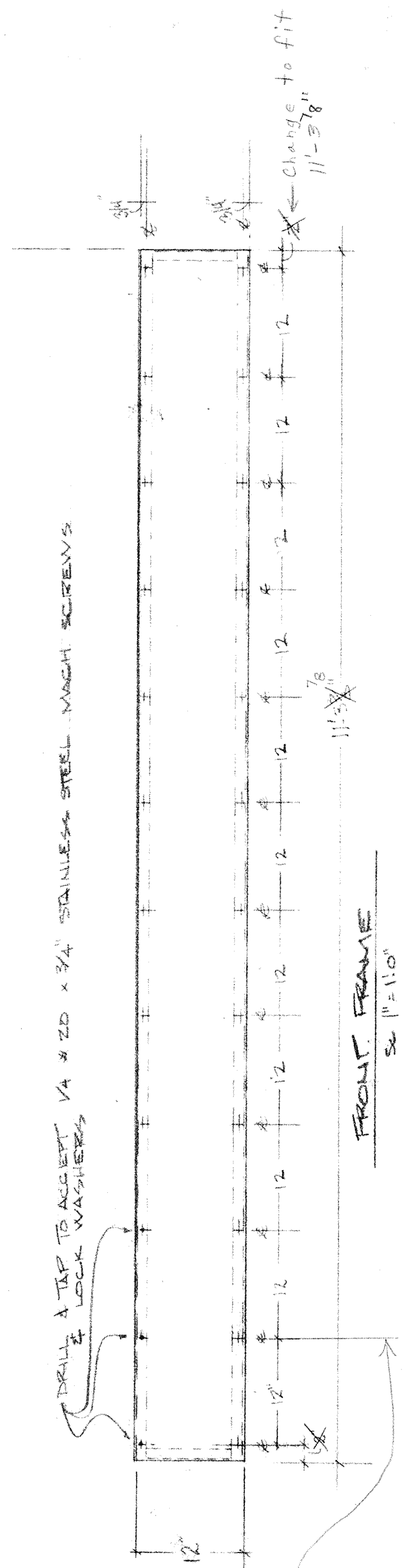


PLAN VIEW SHOWING INTERIOR  
 SC 1/4" = 1'-0"

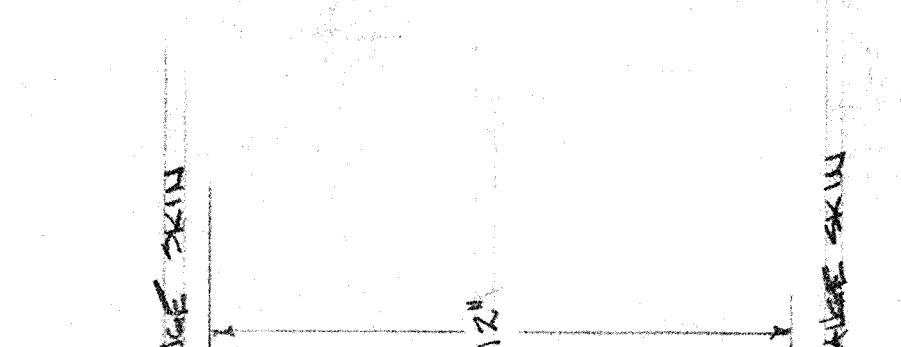
NORTH  
 FRONT (SPRINT SIDE)  
 SC 1/4" = 1'-0"



CORNER DETAIL  
 FULL SCALE



RIGHT SIDE OF FRAME  
 SC 1/4" = 1'-0"



SECTION E-E  
 SC 3/4" = 1'-0"

REVISION AND RESUBMIT  
 NOT APPROVED  
 APPROVED AS NOTED  
 APPROVED

Checking is only for workmanship with the design concept in the Contract Documents. Contractor is responsible for the design and construction of the work. The Engineer is not responsible for the design or construction of the work. The Engineer is not responsible for the design or construction of the work. The Engineer is not responsible for the design or construction of the work.

HARDESTY & HANOVER  
 CONSULTING ENGINEERS  
 M. B. Burgess  
 JAN 19 1983

OFFICE COPY

OFFICE COPY

NOTES -  
 1) STRUCTURAL STEEL ANGLE TYPE 1 1/4" x 1 1/4" x 1/4"

SAVANNA BRIDGE  
 LEAVES DEL

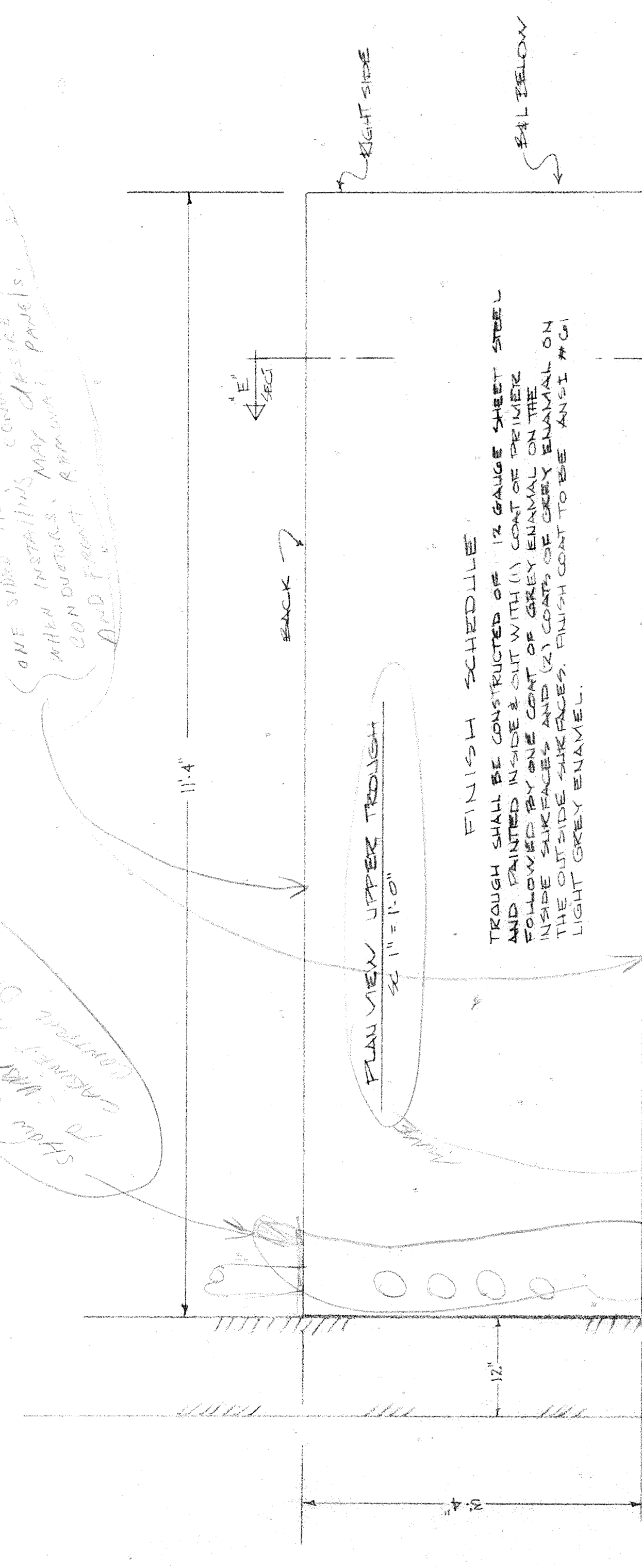
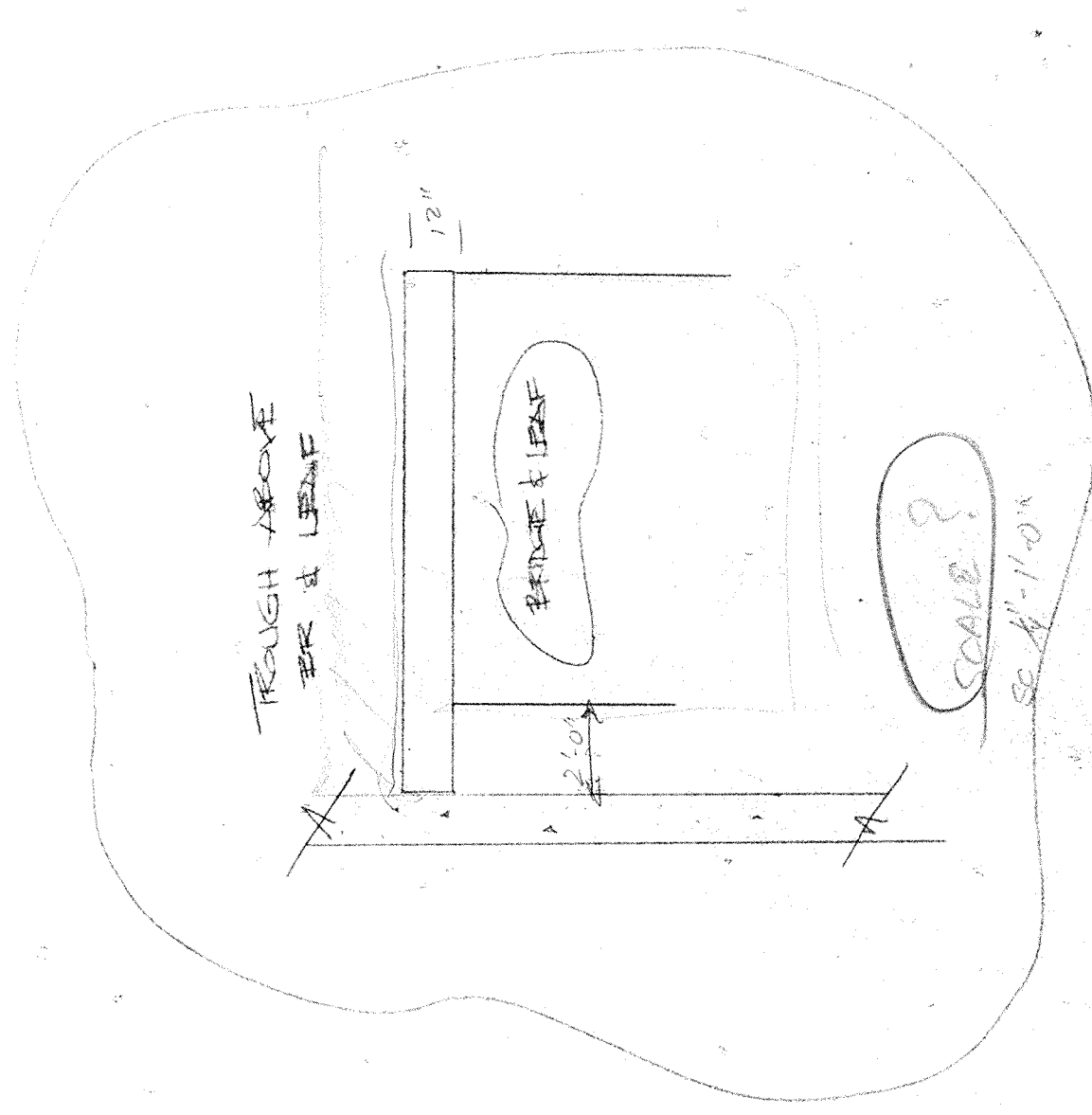
APPROVED BY  
 DATE 11/8/82

UPPER TROUGH  
 TUDOR ELEC.

DRAWING NUMBER  
 TR 2

# UPPER TROUGH

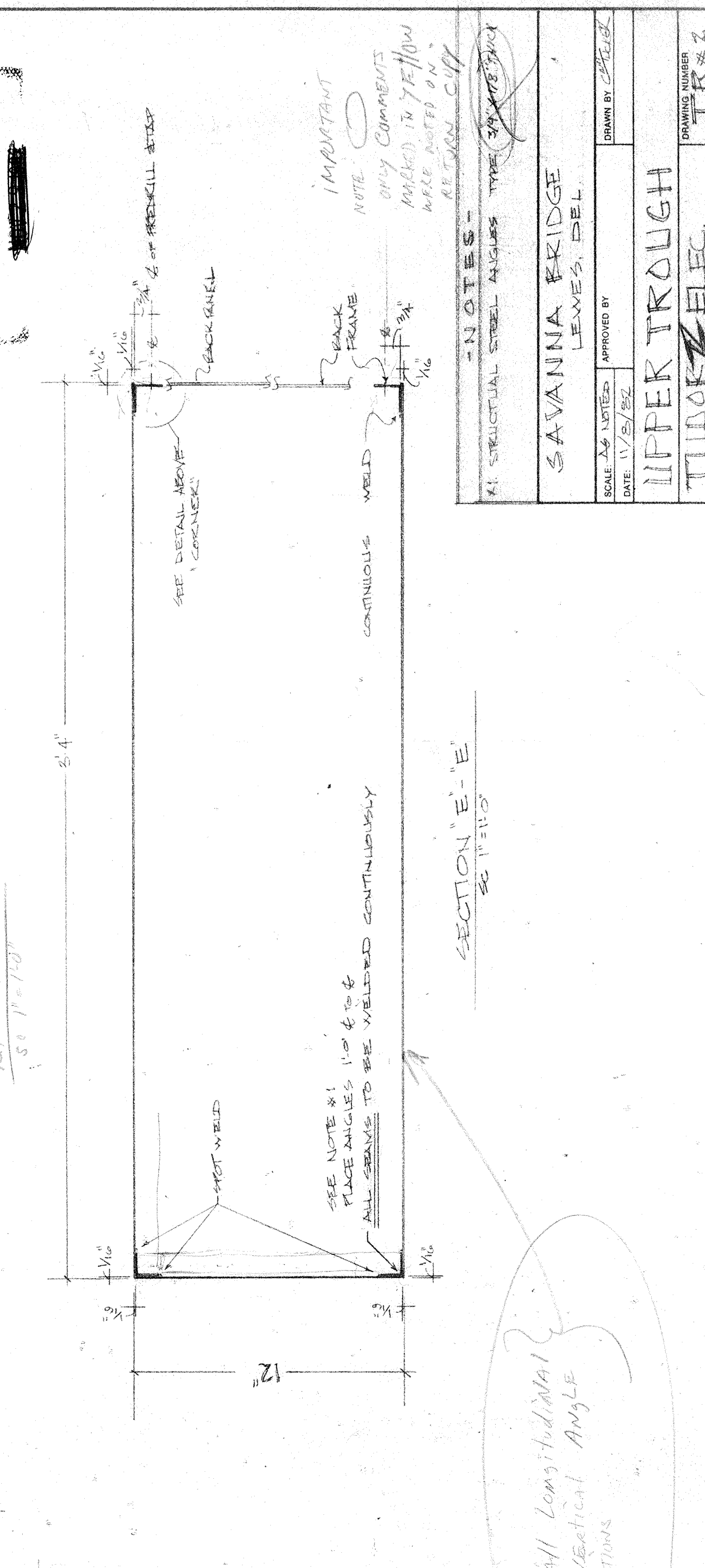
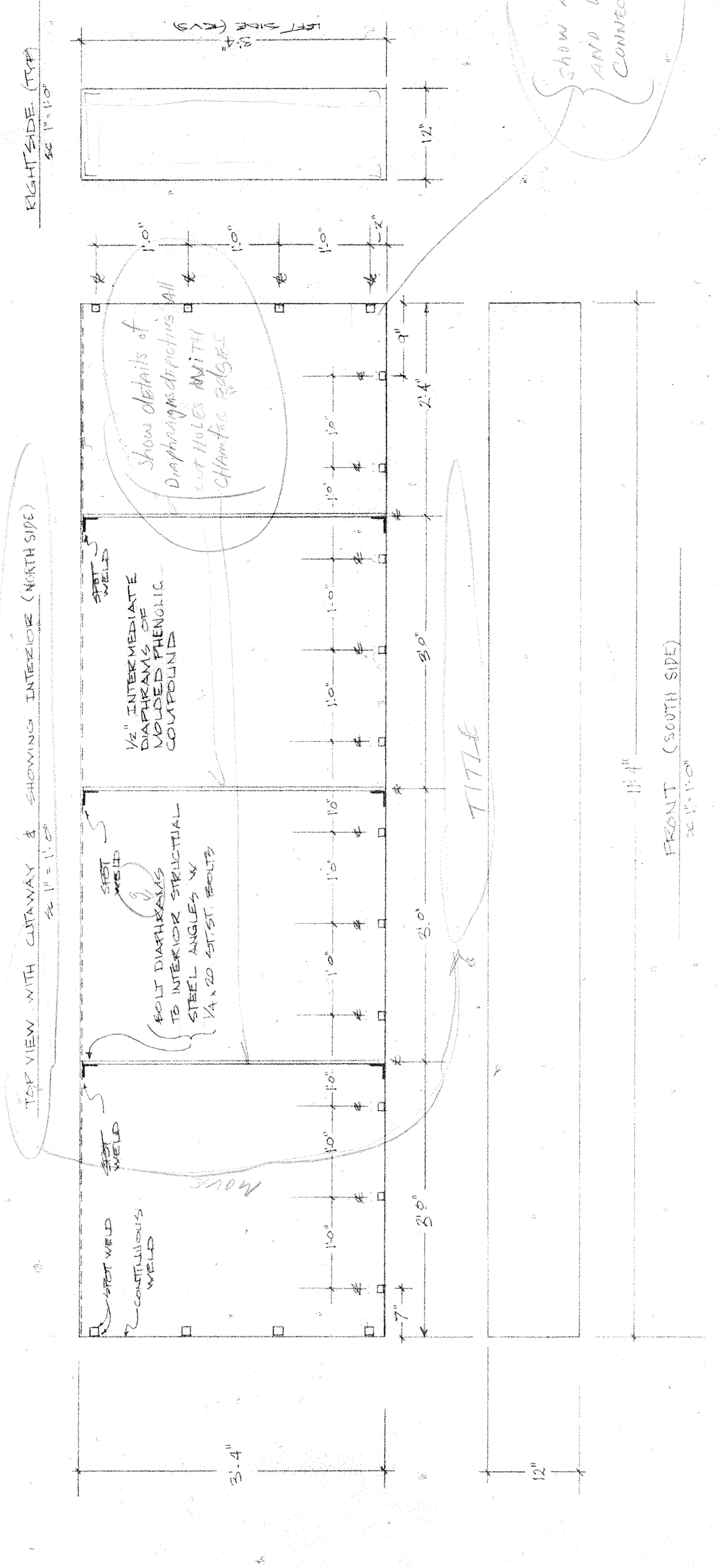
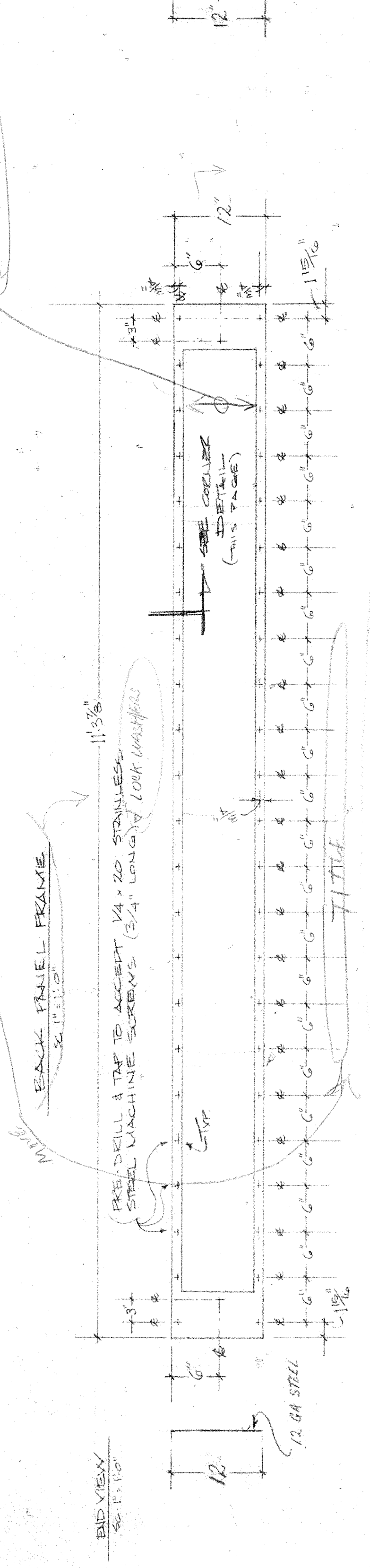
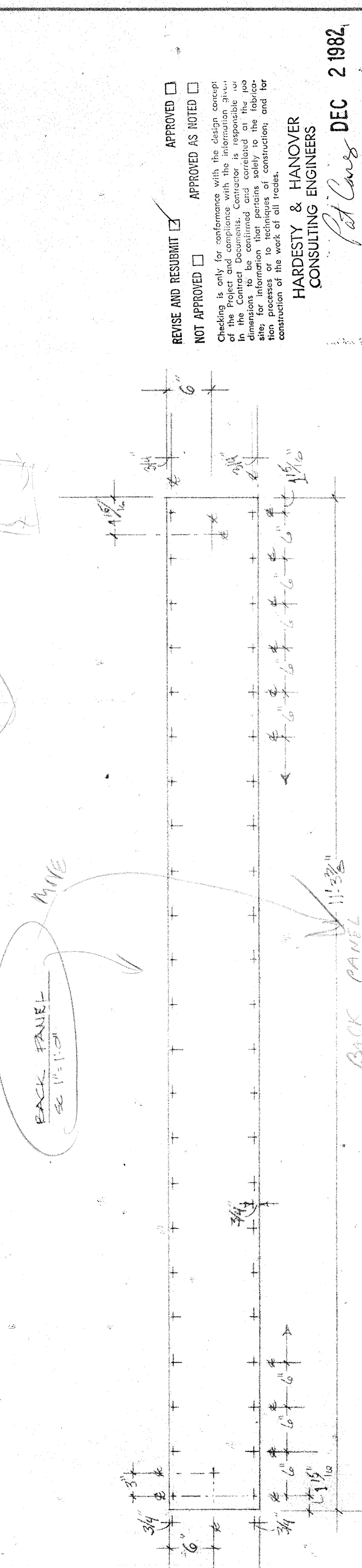
SHOW CONNECTIONS TO JOINTS AND TO CONTAIN DECK  
 ONE SIDE ACCESS MAY BE TRICKLE SOME  
 WITH INSTALLING CONDUITS AND BACK  
 CONDUITS APPROVAL PANELS  
 AND FRONT APPROVAL PANELS



FINISH SCHEDULE  
 TROUGH SHALL BE CONSTRUCTED OF 12 GAUGE SHEET STEEL AND PAINTED INSIDE & OUT WITH (1) COAT OF PRIMER ALLOWED TO DRY ONE COAT OF GREY ENAMEL ON THE INSIDE SURFACE AND (2) COAT OF GREY ENAMEL ON THE OUTSIDE SURFACE. ENAMEL COAT TO BE ANSI #01 LIGHT GREY ENAMEL.

IMMEDIATE ACCESS SLAB

1/4\"/>



REVISE AND RESUBMIT  APPROVED AS NOTED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is only for performance with the design concept of the Project. The Contractor is responsible for all dimensions to be confirmed and verified to the fabricator prior to construction. The Contractor is responsible for the proper process of the work of all materials and for the continuation of the work of all materials.

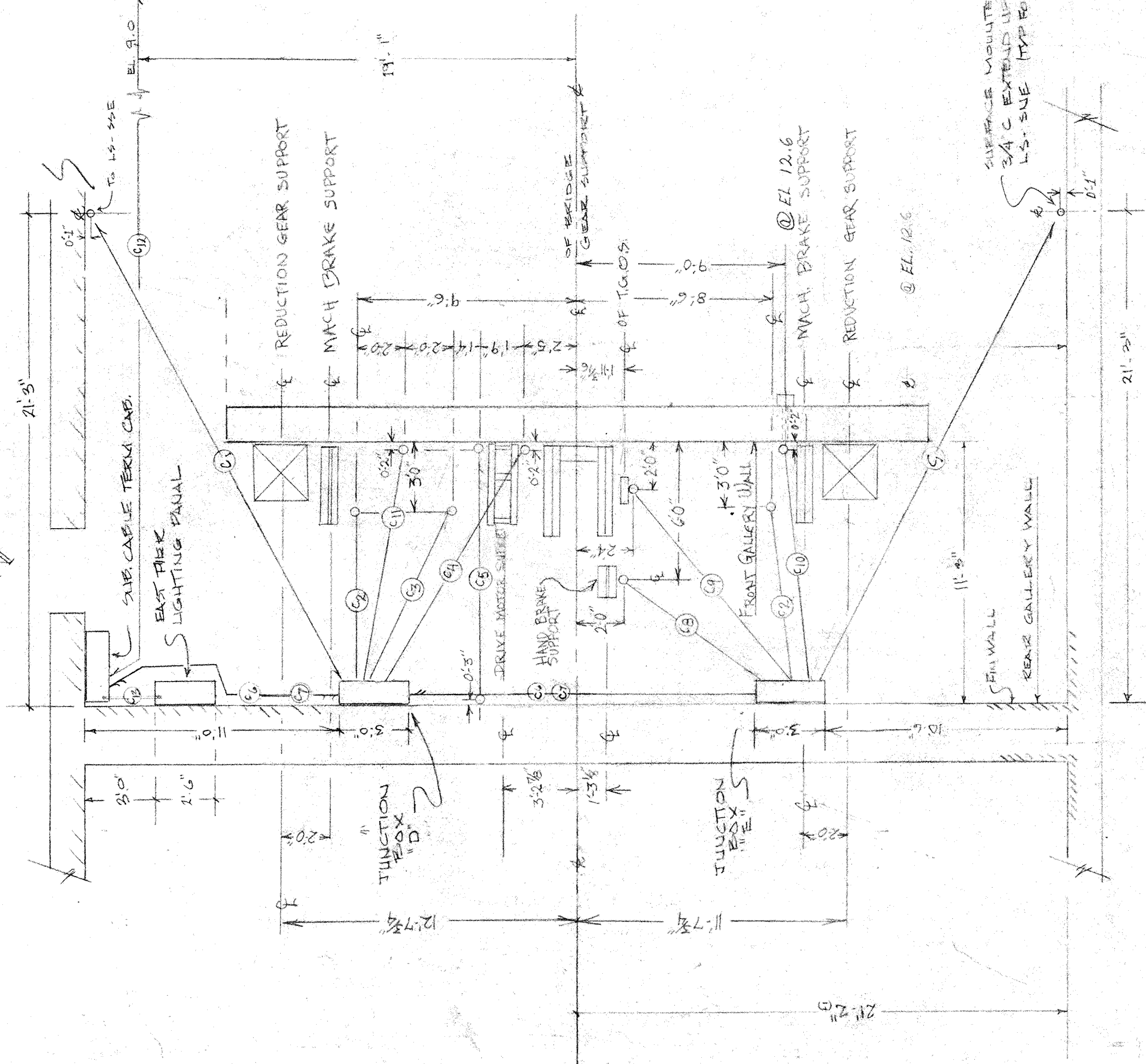
HARDESTY & HANOVER  
 CONSULTING ENGINEERS  
 P. J. C. DEY  
 DEC 2 1982

NOTES -  
 #1 STRUCTURAL STEEL ANGLES TYPE 304 STAINLESS  
 SAVANNA BRIDGE  
 LEWES, DEL.  
 UPPER TROUGH  
 TUBOR ELEC.  
 SCALE: AS NOTED  
 DATE: 11/25/82  
 APPROVED BY: [Signature]  
 DRAWN BY: [Signature]  
 DRAWING NUMBER: TR #2  
 SUPERSEDED

SHOW ALL LONGITUDINAL AND VERTICAL ANGLE CONNECTIONS

1/2\"/>

1/2\"/>

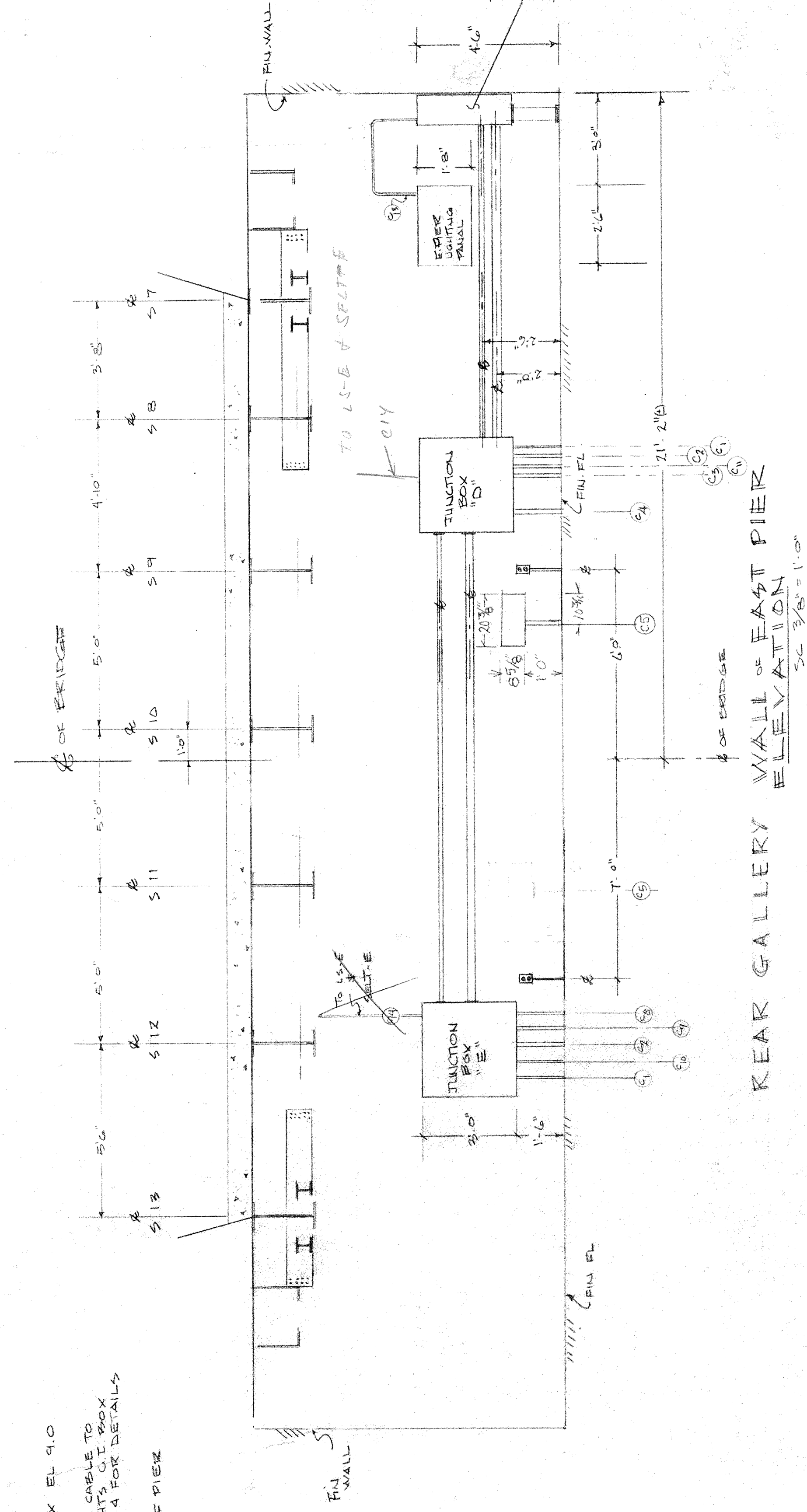


**EAST PIER CONDUIT RUNS**  
SC 14" = 1'-0"

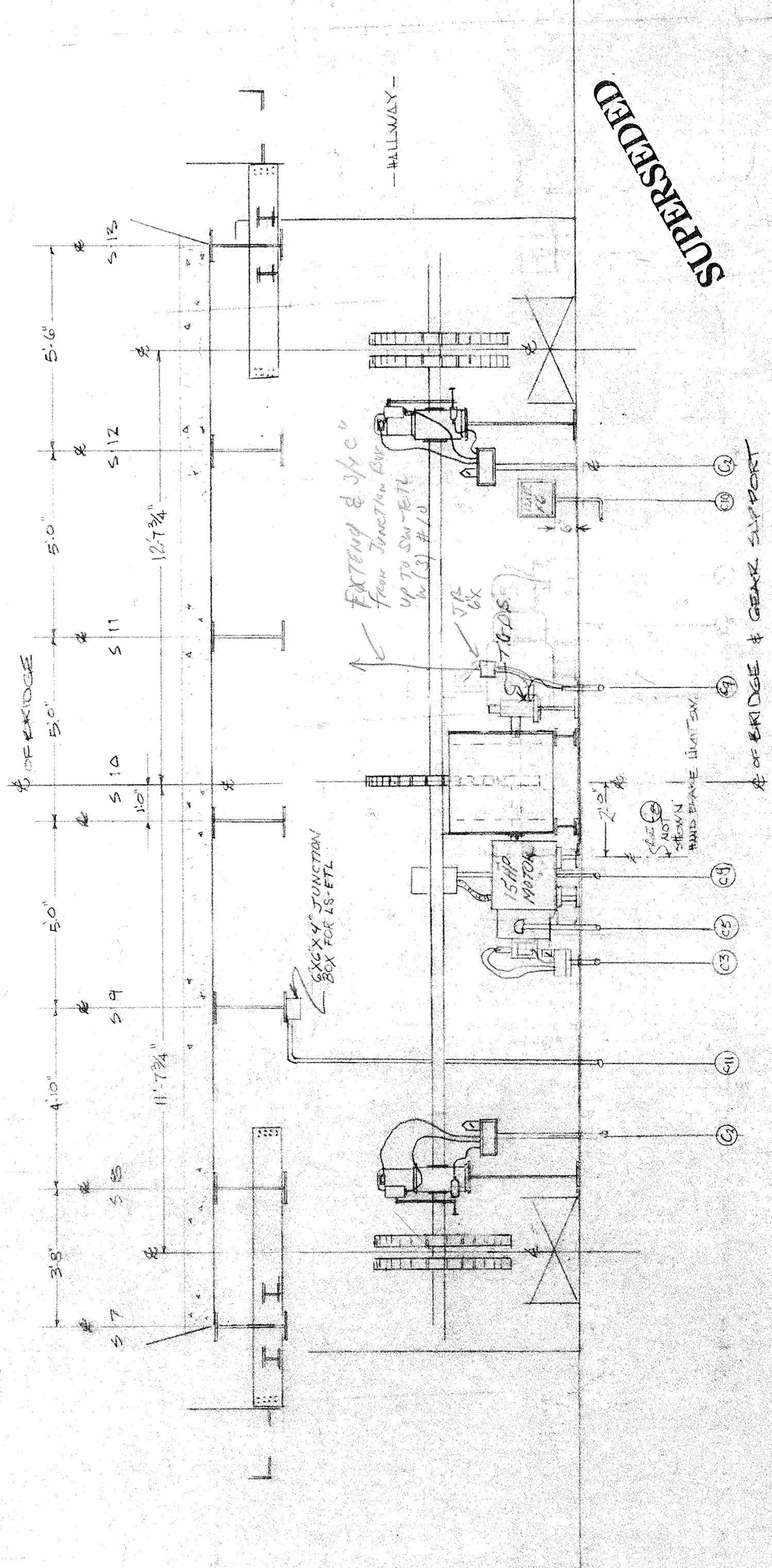
**CONDUIT LEGEND**

- C1 2-3/4" W/ (2) #10 IN EA. CONDUIT - 1-3/4" C/W/ 2" HD TO LS-SUE
- C2 1-1/2" W/ (1) #10 TO MOTOR "BRAKE"
- C3 1-1/2" W/ (1) #10 TO MOTOR "BRAKE"
- C4 1-1/2" W/ (1) #10 TO M.C. 15-HORSE
- C5 1-1/2" W/ (1) #10 FROM JUNCTION D TO JUNCTION D-2
- C6 2-1/2" W/ (2) #10 FROM JUNCTION D TO JUNCTION D-2
- C7 2-1/2" W/ (2) #10 FROM JUNCTION D TO JUNCTION D-2
- C8 2-1/2" W/ (2) #10 TO HAND BRAKE LIMIT SWITCH
- C9 1-1/2" W/ (1) #10 TO T.G.S. 7 SW-ETL
- C10 1-1/2" W/ (1) #10 TO BRIDGE LEAF LIGHTS
- C11 3/4" W/ (1) #10 TO FENDER LIGHTS
- C12 3/4" W/ (1) #10 TO FENDER LIGHTS
- C13 2" W/ (2) #10 TO LIGHTS
- C14 2" W/ (2) #10 TO LIGHTS

G.G.4 C.I. BOX EL 9.0  
4/2 #10 FLEX CABLE TO FENDER LIGHTS, C.I. BOX SEE DWG #4 FOR DETAILS  
FACE WALL OF PIER



**REAR GALLERY WALL OF EAST PIER ELEVATION**  
SC 3/8" = 1'-0"



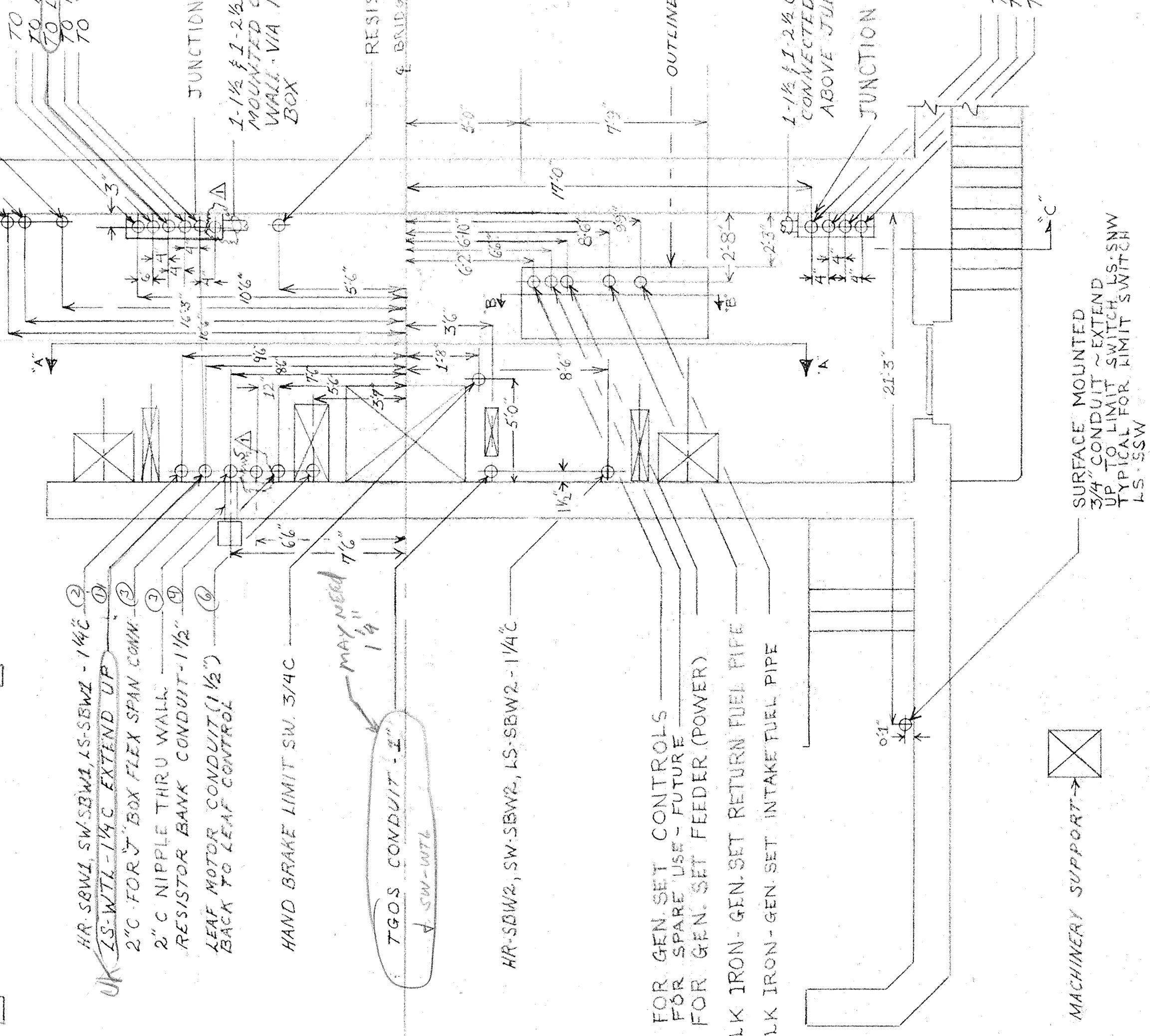
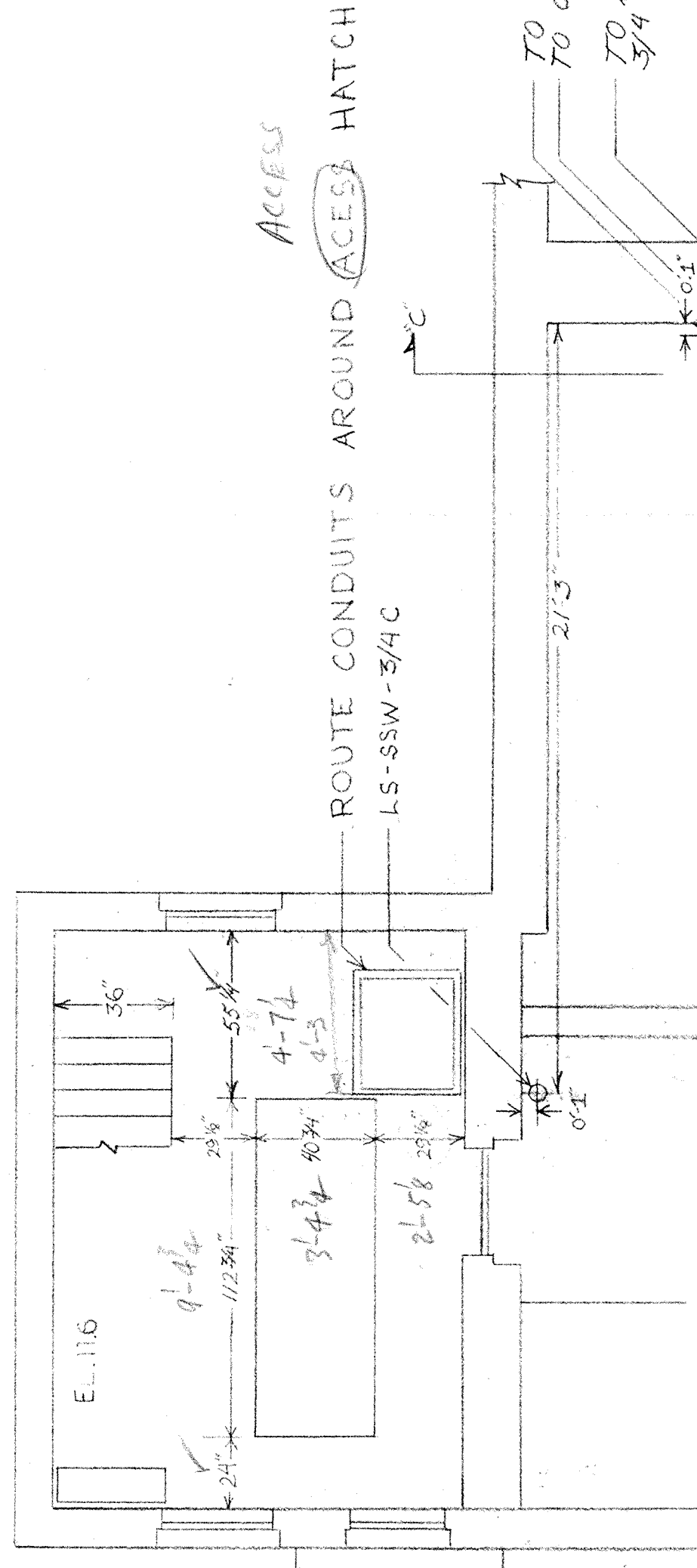
**FRONT GALLERY WALL OF EAST PIER ELEVATION**  
SC 3/8" = 1'-0"

REVISION AND REQUIREMENT  NOT APPROVED  APPROVED AS SHOWN  APPROVED  
Checking is only for conformity with the Project and compliance with the in abstract dimensions to be continued contractor is responsible for the accuracy of the work of all trades, construction and to  
**HARDESTY & HANOVER CONSULTING ENGINEERS**  
*Pat Carey*  
DEC 17 1982

**SUPERSEDED**

**SAVANNAH BRIDGE**  
LEWIS, DEL  
SCALE AS NOTED  
DATE 12/15/82  
DRAWN BY C. J. LEFF  
APPROVED BY  
**EXETER - CONDUIT RUNS - ELEVATIONS**  
TUDOR ELECT. CO. DRAWING NUMBER  
P. I. ET. # 1

REVISIONS  
 1. C W/7" HIG FROM JUNCTION BOX A SW-MBW HR-MBW LS-MBW CONDUIT B FROM LETTER MOUNTED MAN 18, 1983 IS BELIEVED FROM THE AND IS NOW ROUTED OVER HEAD FROM JUNCTION BOX A - 2C W/2" - 10 (NOT SHOWN - OVERLAP CONDUIT B TO LS-MW SET)



NOTE: CABLES WITH ALL X OR W/POSS. V CONDUIT STRIP ALL UP THRU ALL OTHERS MOUNTED UNLESS OTHERWISE NOTED

NOTE: SURFACE MOUNTED 3/4\"/>

REVISE AND RESUBMIT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is only for conformance with the instructions of the Project and compliance with the instructions of the Authority having jurisdiction. The contractor is responsible for the design and construction of the work. The contractor shall be responsible for the safety of the work and for the connection of the work of all trades.

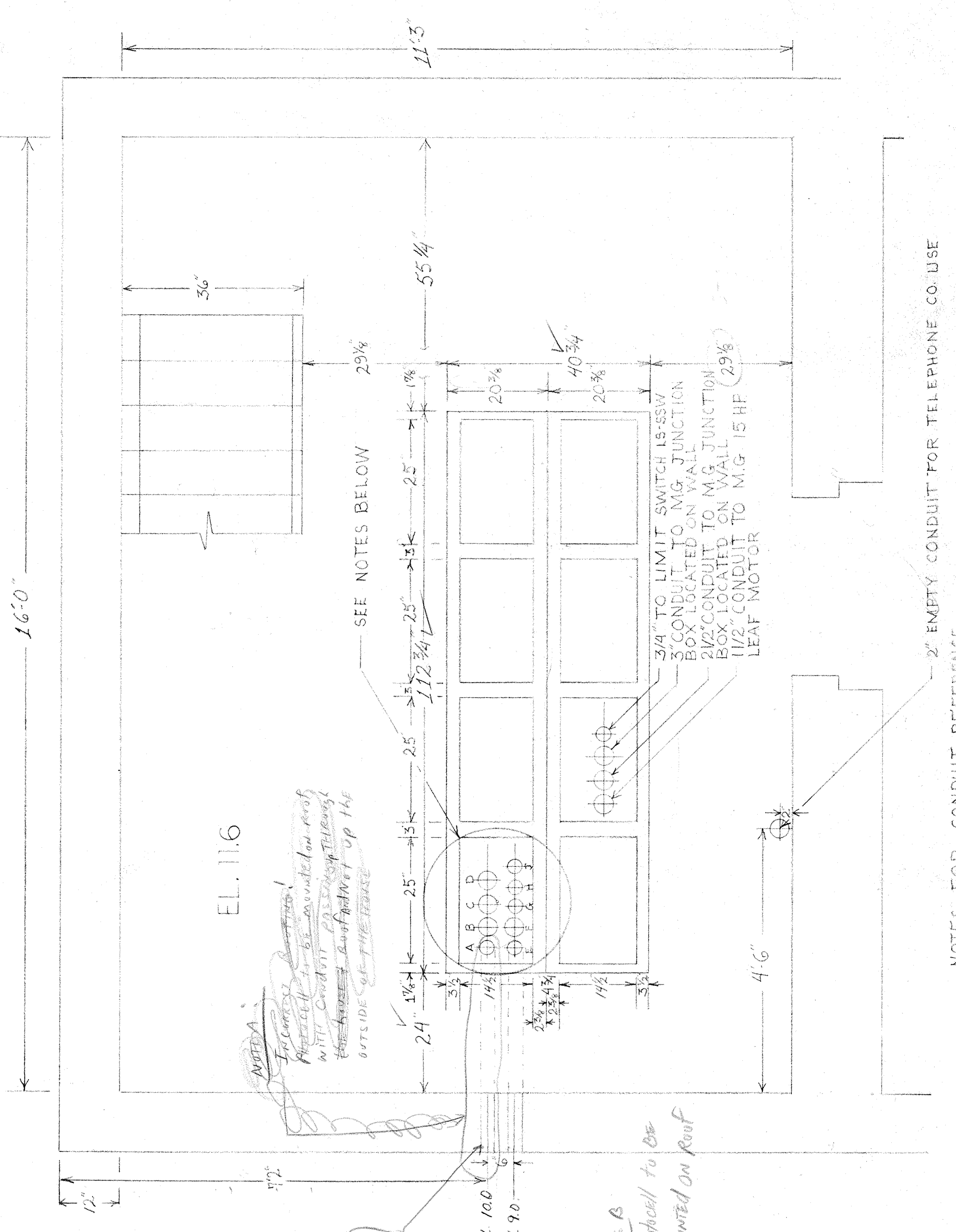
HARDESTY & HANOVER CONSULTING ENGINEERS  
 Pat Coy  
 JUL 29 1982

OFFICE COPY

SAVANNAH BRIDGE RD

SCALE: VARIES APPROVED BY: [Signature]  
 DATE: 6-15-82

DECK POUR-1-REVISED  
 TUDOR ELECTRIC  
 DRAWING NUMBER: DP-1-R



SEE NOTES BELOW

2\"/>

EL. 11.6

ROUTE CONDUITS AROUND ACCESS HATCH

LS-SSW-3/4C

RESISTOR CONDUIT 1 1/2\"/>

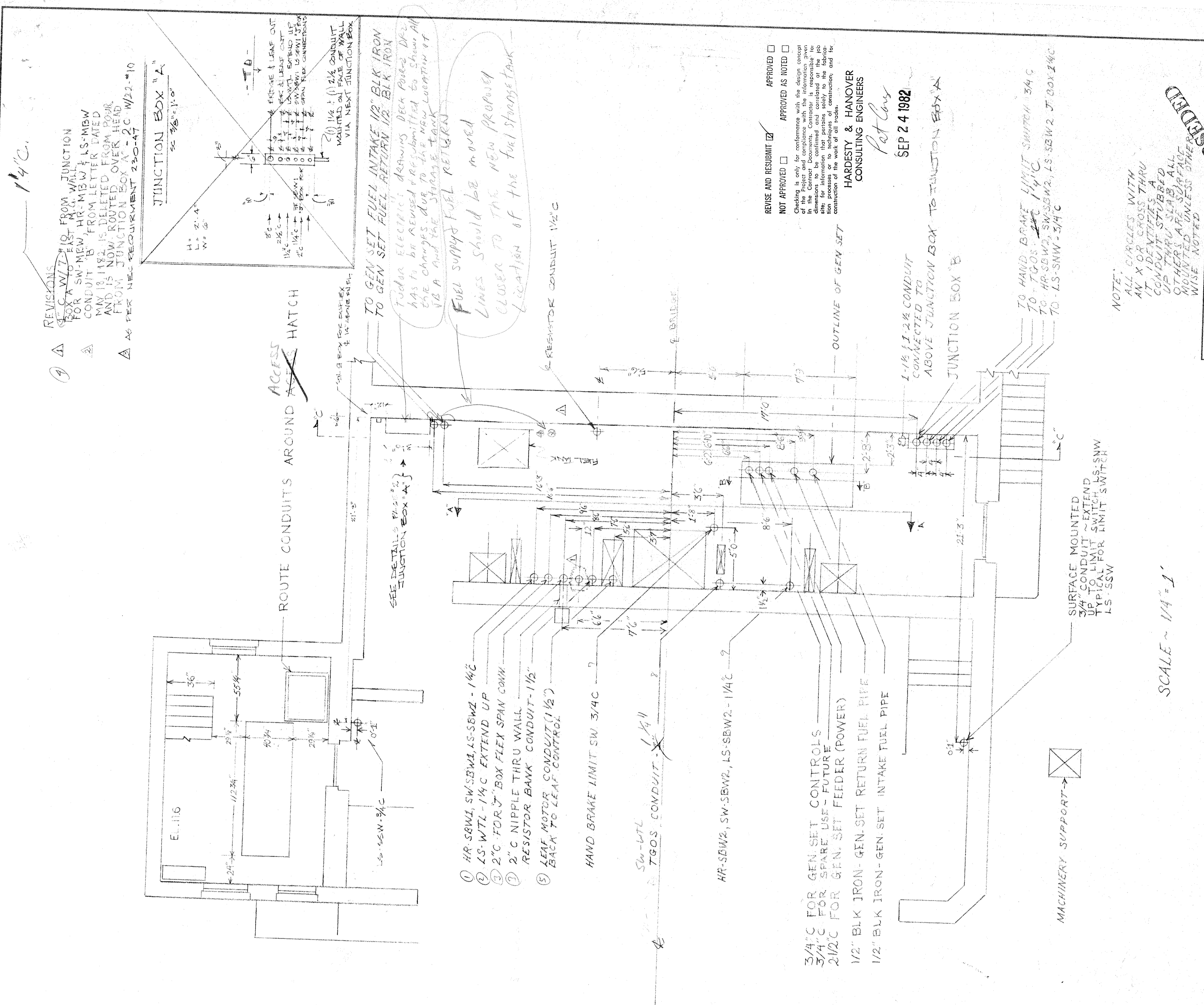
NOTE A: INCORRECT ROUTING OF CONDUIT FROM PHOTO CELL TO ENTRY HOUSE VIA ROOF. SEE EL. 10.0 SHEET 60 OF CONTRACT DRAWINGS.

NOTE B: PHOTOCELL TO BE MOUNTED ON ROOF.

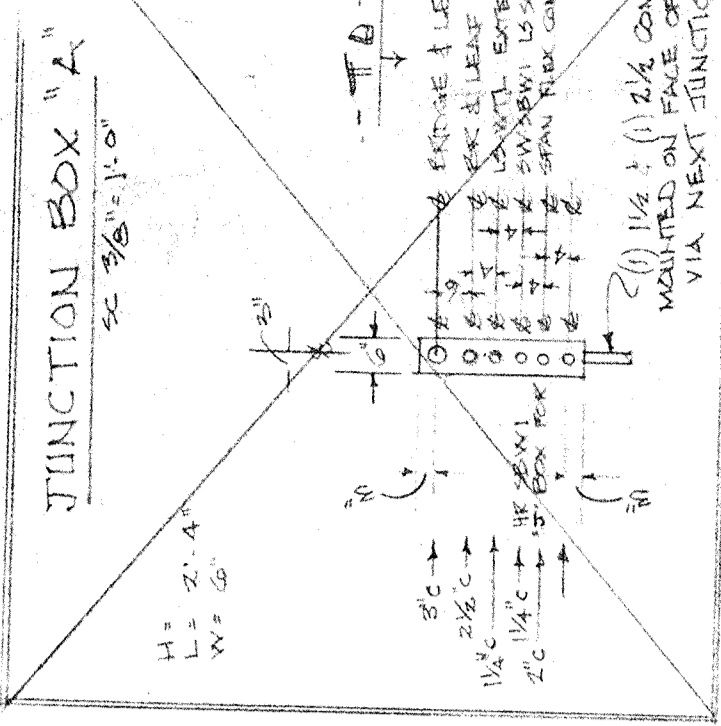
WEST LEAF MACHINE GALLERY & BRIDGE CONTROL HOUSE CONDUIT ARRANGEMENT

SCALE ~ 3/4\"/>





REVISIONS  
 1. FROM JUNCTION BOX TO WALL FOR A NEW 1/2" CONDUIT TO MR. MBW & LS-MBW FROM LETTER E AND IS NOW ELIMINATED FROM POOR FROM JUNCTION BOX TO JUNCTION BOX A - 2" W/2" - 10  
 2. AS PER REQUIREMENT 250-47



TO GEN SET FUEL INTAKE 1/2" BLK IRON  
 TO GEN SET FUEL RETURN 1/2" BLK IRON  
 Fuel supply fuel return lines should be moved closer to the new proposed location of the fuel storage tank  
 RESISTOR CONDUIT 1 1/2" C

REVISIONS AND RESUBMIT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is left for reference with the contractor of the Project and compliance with the information of the Common Documents. Contractor is responsible to the information that pertains solely to the fabric construction of the work of all trades.  
 HARDESTY & HANOVER  
 CONSULTING ENGINEERS  
 Pet Cas  
 SEP 24 1982

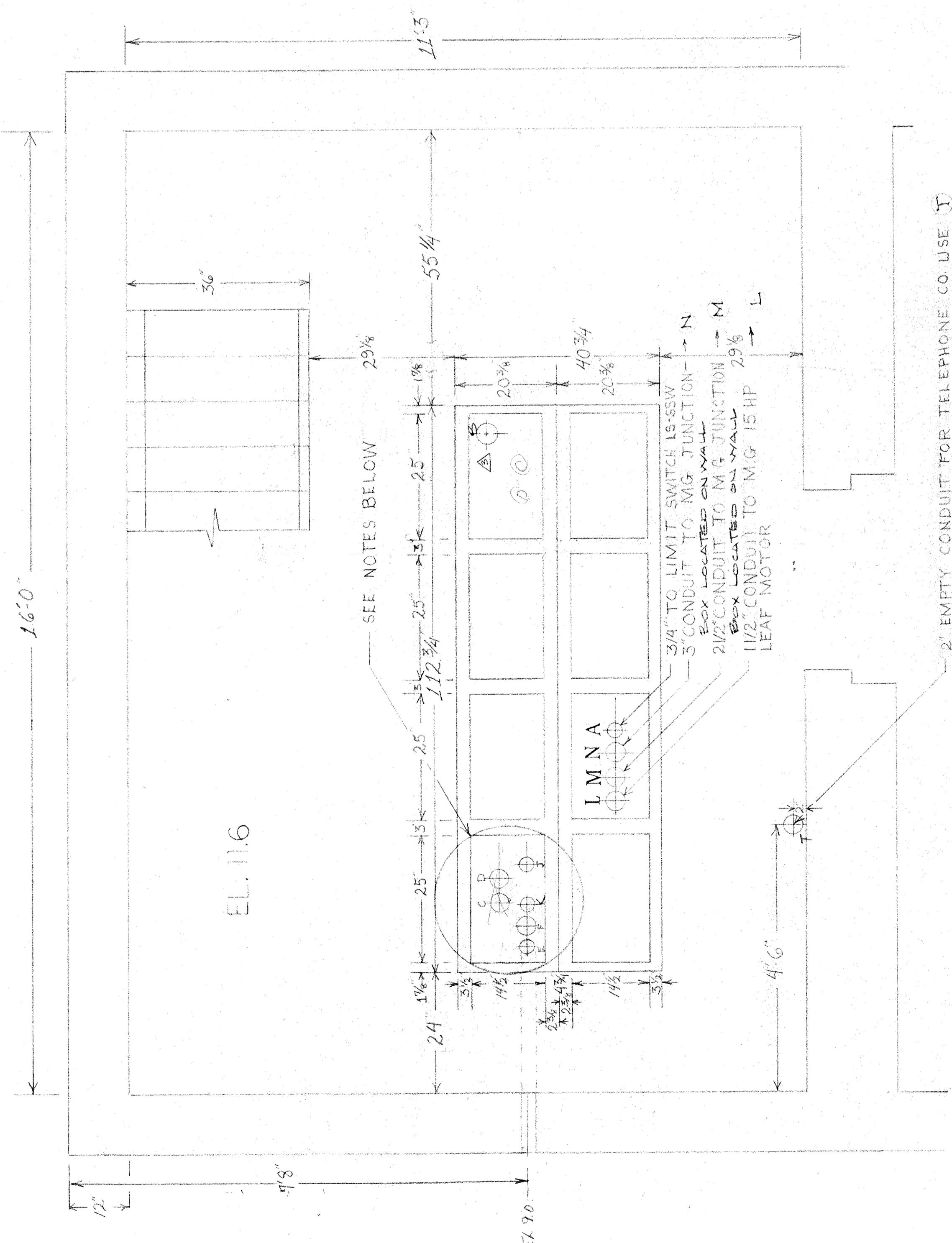
NOTE:  
 ALL CIRCLES WITH AN X OR CROSS THRU IT IDENTIFIES A CONDUIT STUDIED AT THAT SLAB ALL MOUNTED UNLESS OTHERWISE NOTED

SCALE: 1/4" = 1'	APPROVED BY: [Signature]	DRAWN BY: [Signature]	DRAWING NUMBER: [Number]
DATE: 6-15-82	BY: [Signature]	DESIGNED BY: [Signature]	DRAWING NUMBER: [Number]
SAVANNAH BRIDGE RD			DRAWING NUMBER: [Number]
DECK POUR-1-REVISED			DRAWING NUMBER: [Number]
TUDOR ELECTRIC			DRAWING NUMBER: [Number]

- 1. HR-SBW1 SW-SBW2-LS-SBW2-1 1/2" C
- 2. LS-WTL-1 1/4" C EXTEND UP
- 3. 2" C FOR JUNCTION BOX FLEX SPAN CONN
- 4. 2" C NIPPLE THRU WALL RESISTOR BANK CONDUIT-1 1/2"
- 5. LEAF MOTOR CONDUIT (1 1/2") BACK TO LEAF CONTROL

- 3/4" C FOR GEN SET CONTROLS
- 3/4" C FOR SPARE USE - FUTURE
- 2 1/2" C FOR GEN SET FEEDER (POWER)
- 1/2" BLK IRON - GEN SET RETURN FUEL PIPE
- 1/2" BLK IRON - GEN SET INTAKE FUEL PIPE

SCALE ~ 1/4" = 1'

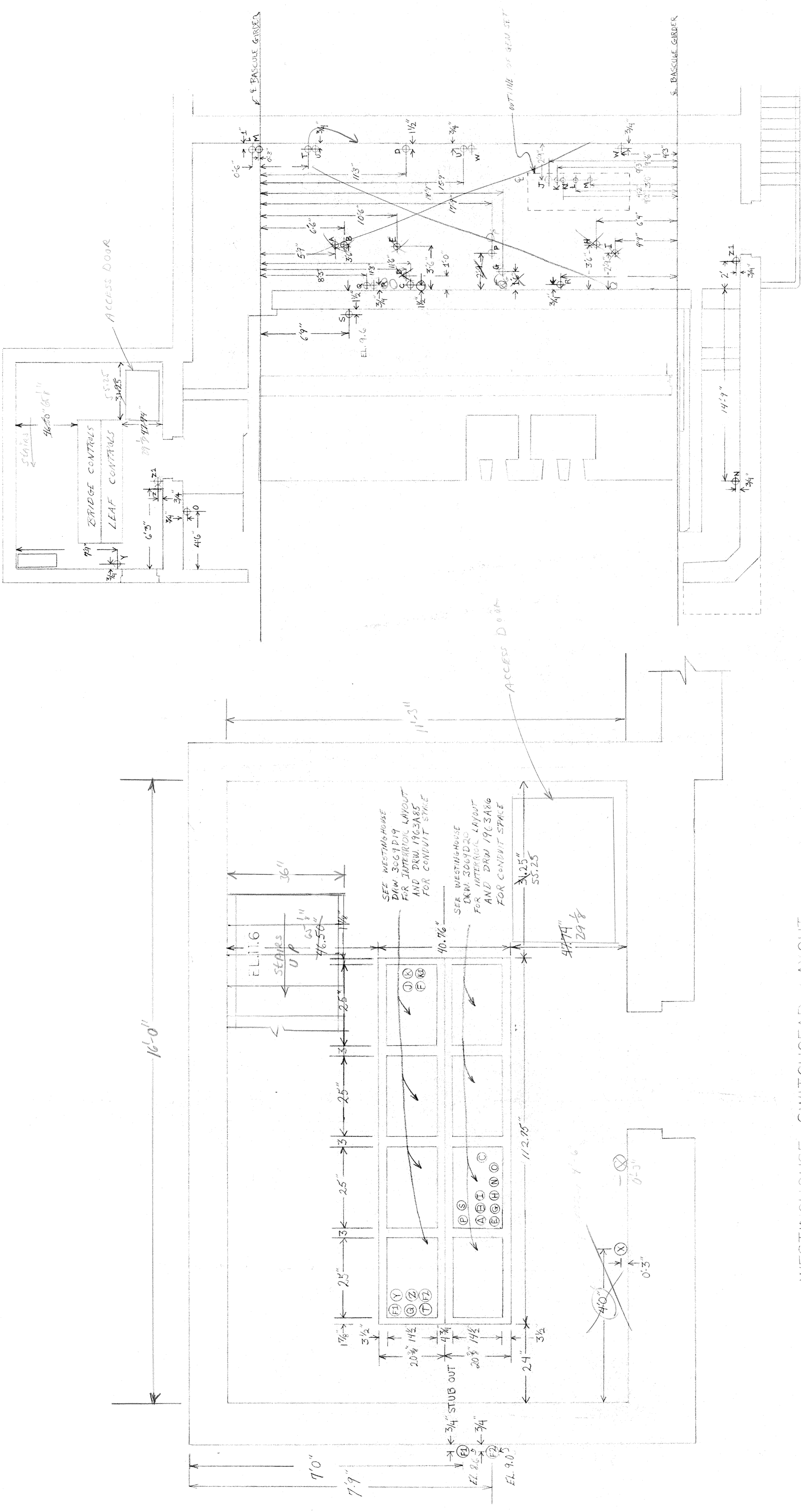


NOTES FOR CONDUIT REFERENCE  
 B - 2 1/2" C FOR SERVICE LIGHTS  
 C - 1" C FOR ROADWAY LIGHTS  
 D - 2 1/2" C FOR WARNING GATES & GONGS - ETC.  
 E - 1" C FOR FENDER LIGHTS  
 F - 2 1/2" C FOR GEN SET POWER CABLES  
 K - 3/4" C FOR GEN SET CONTROL WIRING  
 J - 3/4" C FOR M.G. RECP. FEED  
 2" EMPTY CONDUIT FOR TELEPHONE CO. USE (T)

WEST LEAF MACHINEERY & BRIDGE CONTROL HOUSE  
 COND ARRANGEMENT

SCALE ~ 3/4" = 1'





WESTINGHOUSE SWITCHGEAR LAYOUT AND CONDUIT ARRANGEMENT  
SCALE 3/4"=1'

NOTE: CIRCLES WITH LETTER INSIDE DESIGNATE CONDUIT SIZE THAT IS ON ATTACHED SHEET  
EXAMPLE: (A) IS A 1/2" CONDUIT FOR THRUSTER BRAKE W/ 8-70 CONDUCTORS

SCALE 1/4"=1'

REVISE AND RESUBMIT  APPROVED  APPROVED AS NOTED   
 Checking is only for accuracy of the design concept of the project and compliance with the design concept. The Designer is responsible for the design and construction of the project. The Designer is not responsible for the construction of the project. The Designer is not responsible for the construction of the project.

HARDISTY & HANOVER CONSULTING ENGINEERS  
NO ACTION TAKEN

SEP 24 1982

No Action  
H. Chay

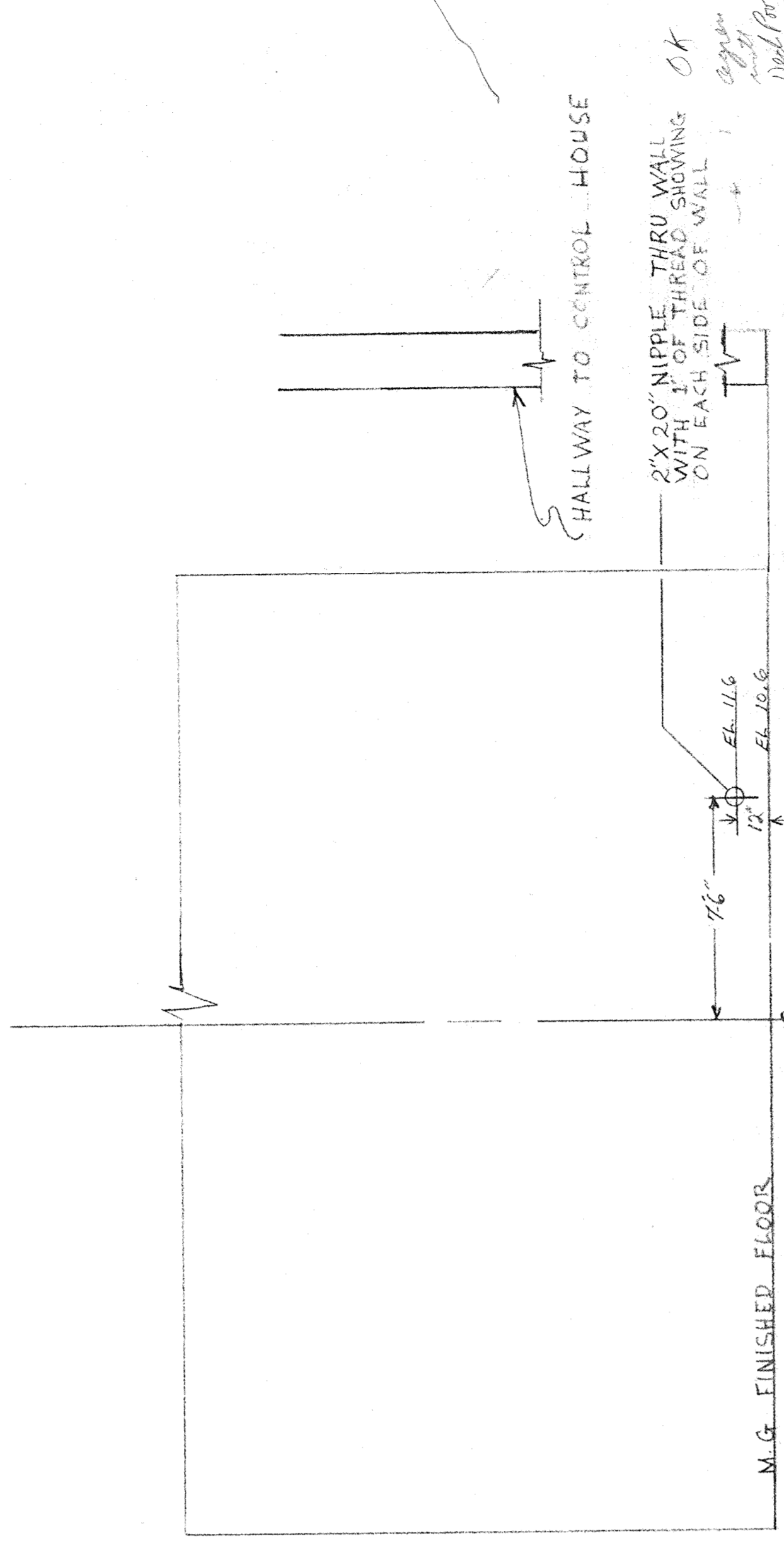
THIS DRAWING SUPERSEDES DRAWING NO. 67  
SUPERSEDED

SAVANNAH ROAD BRIDGE	APPROVED BY	DRAWN BY D.J.J.
DATE	DATE	DATE
DECK POUR - CONDUIT LAYOUT		
TUDM ELECTRIC		DRAWING NUMBER DP-1

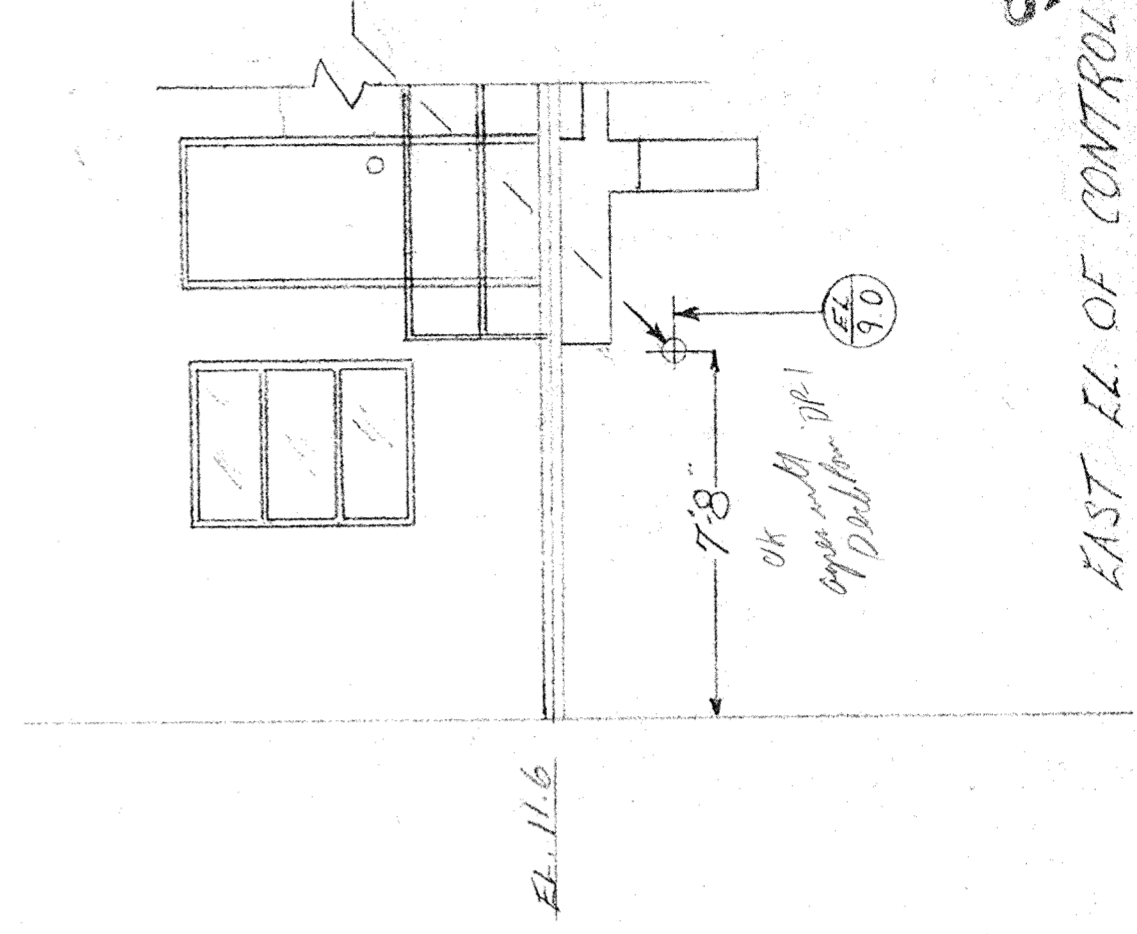




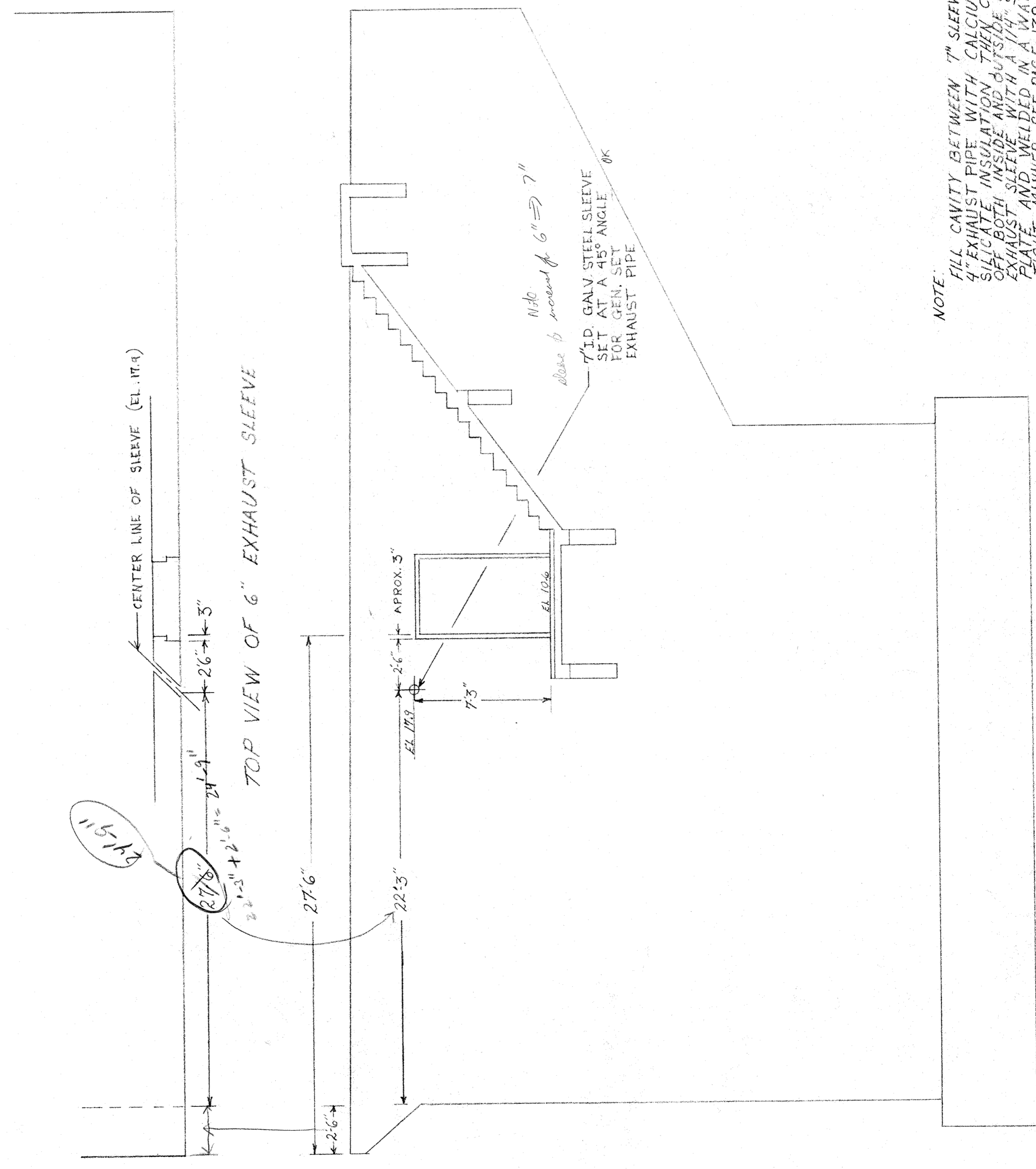




EAST WALL OF M.G. WEST LEAF  
AS LOOKING FROM INSIDE M.G.  
SCALE ~ 1/4" = 1 FT.



EAST END OF CONTROL HOUSE  
CONDUIT STUB OUTS  
SCALE ~ 1/4" = 1 FT.



NORTH WALL ~ WEST LEAF  
SCALE ~ 1/4" = 1 FT.

NOTE:  
FILL CAVITY BETWEEN 7" SLEEVE & 4" EXHAUST PIPE WITH CALCIUM SILICATE INSULATION THEN CLOSE OFF BOTH INSIDE AND OUTSIDE M.G. EXHAUST SLEEVE WITH A 1/4" STEEL PLATE AND WELDED WITH A WATER TIGHT FANWER SLEET, PAGE 10 OF DRAWING GSD-1 FOR MORE DETAILS

REUSE AND RESUBMIT  APPROVED   
NOT APPROVED  APPROVED AS NOTED   
Checking is only for conformance with the specifications and drawings. It is not a warranty, a license, or an endorsement. The contractor is responsible for the design and construction of the work. The engineer's work is limited to the design and construction of the work of art.

HARDESTY & HAROVER  
CONSULTING ENGINEERS  
1501 BROADWAY  
NEW YORK, N. Y. 10036

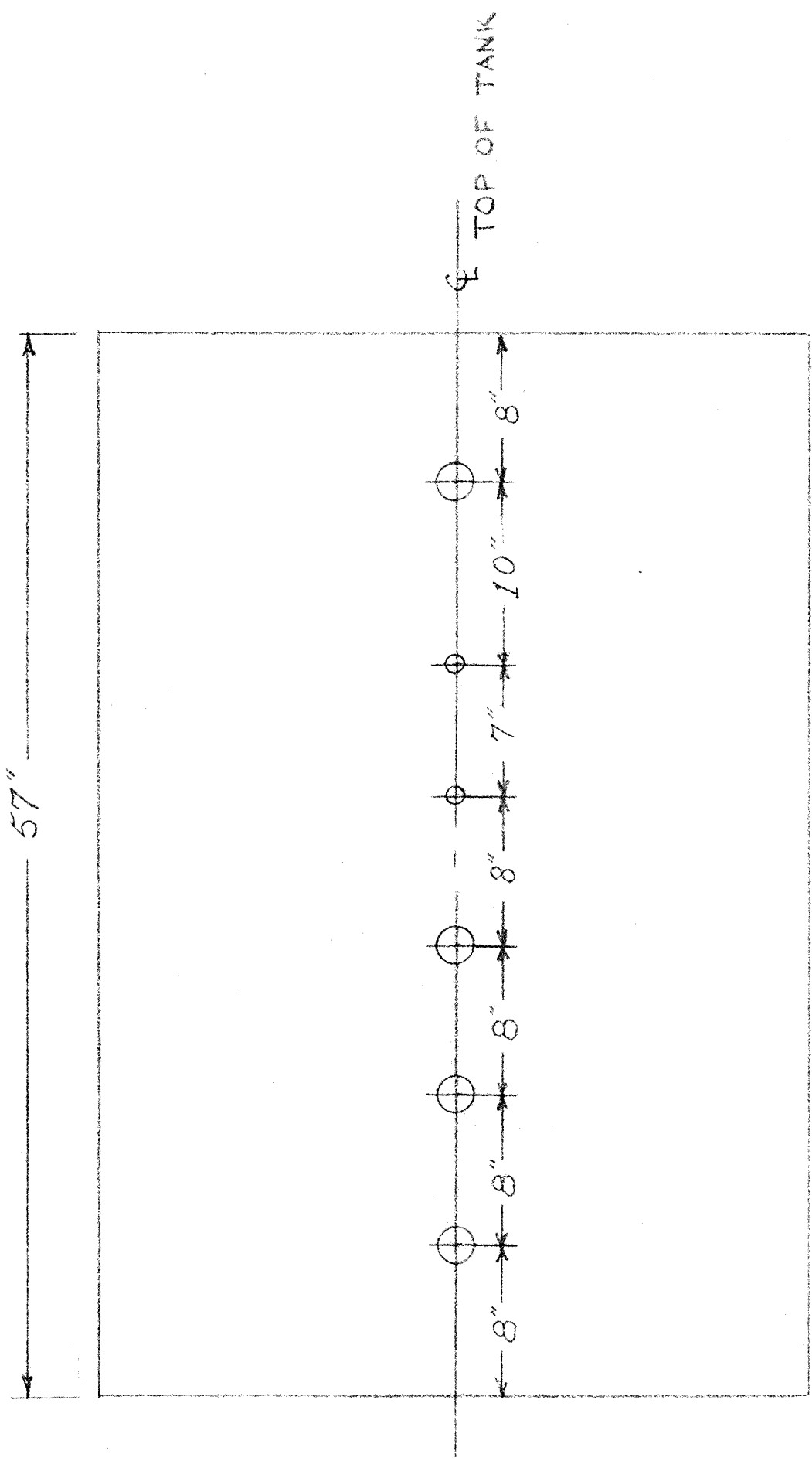
By: *P. Kelly*

AUG 3 1982  
OFFICE COPY

SPERSEBRED

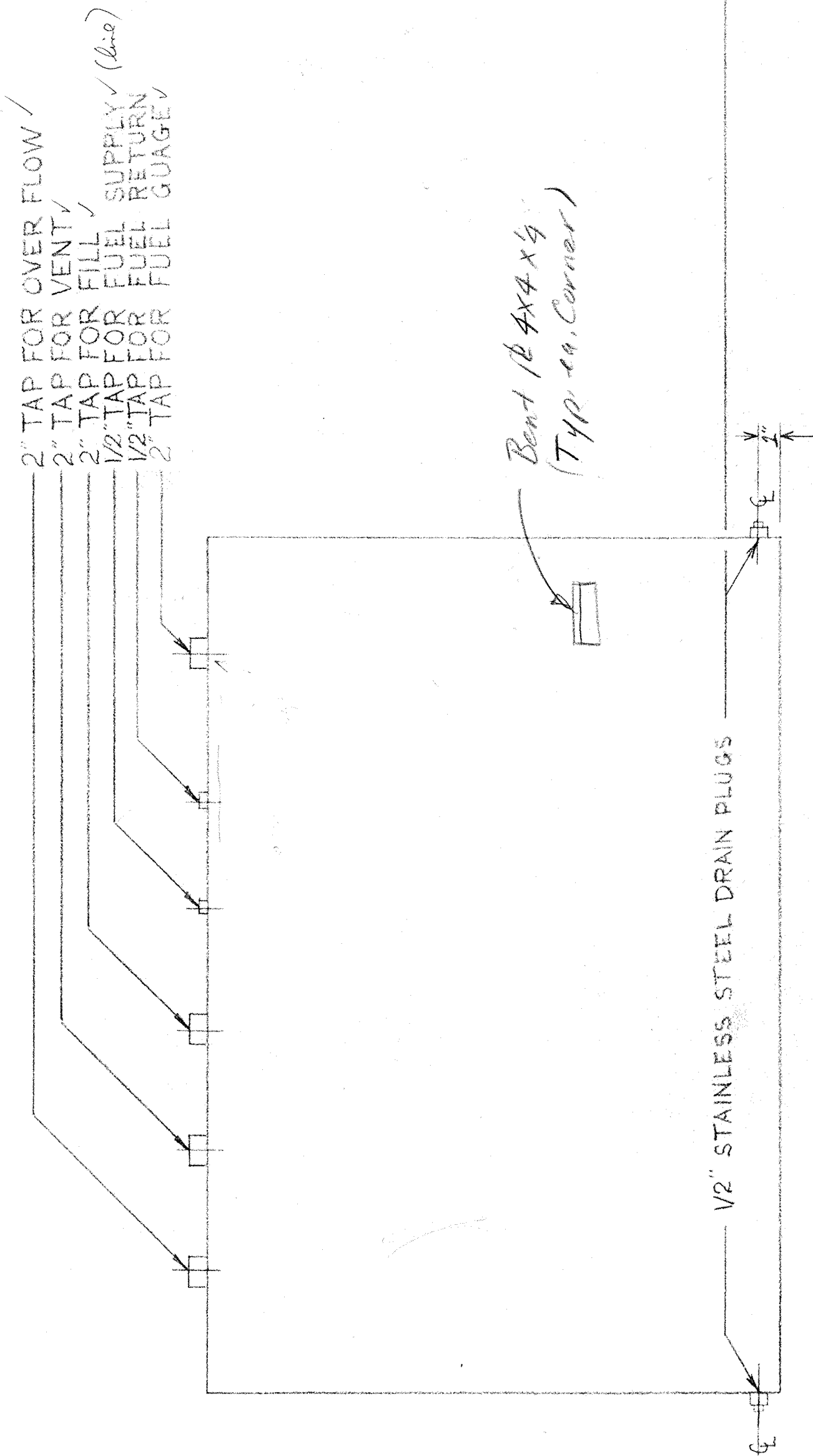
SCALE: 1/4" = 1 FT.	APPROVED BY:	SAVANNAH ROAD BRIDGE
DATE: 8-3-82	DRAWN BY: Kelly	
		MISC. CONDUIT DETAILS
		TUDOR ELECTRIC
		DRAWING NUMBER MCD-1





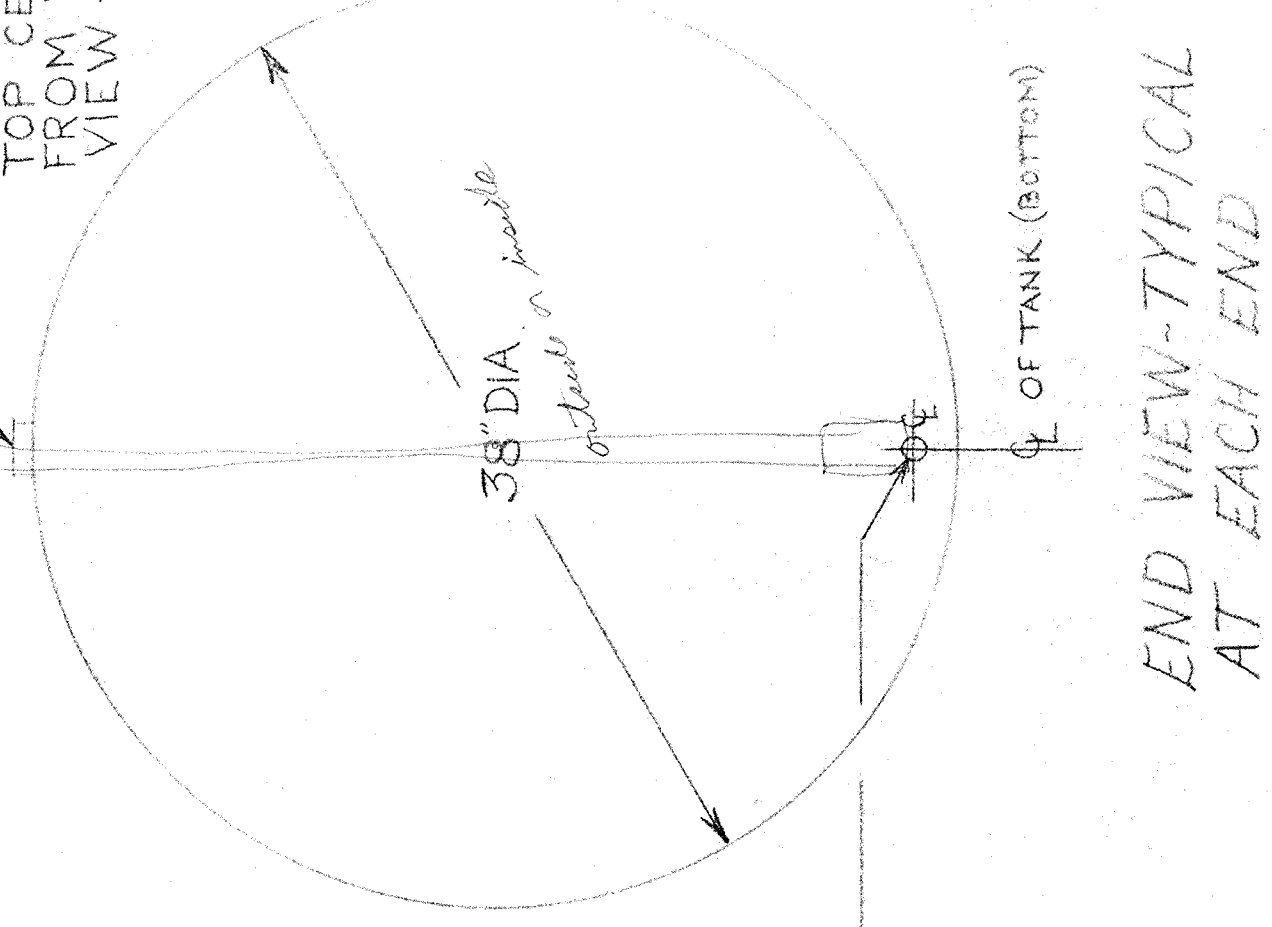
TOP VIEW

NOTES:  
TANK SHALL BE FABRICATED OF NO. 12 GAUGE 18-8  
TYPE 304L STAINLESS STEEL WITH CONTINUOUSLY  
WELDED JOINTS

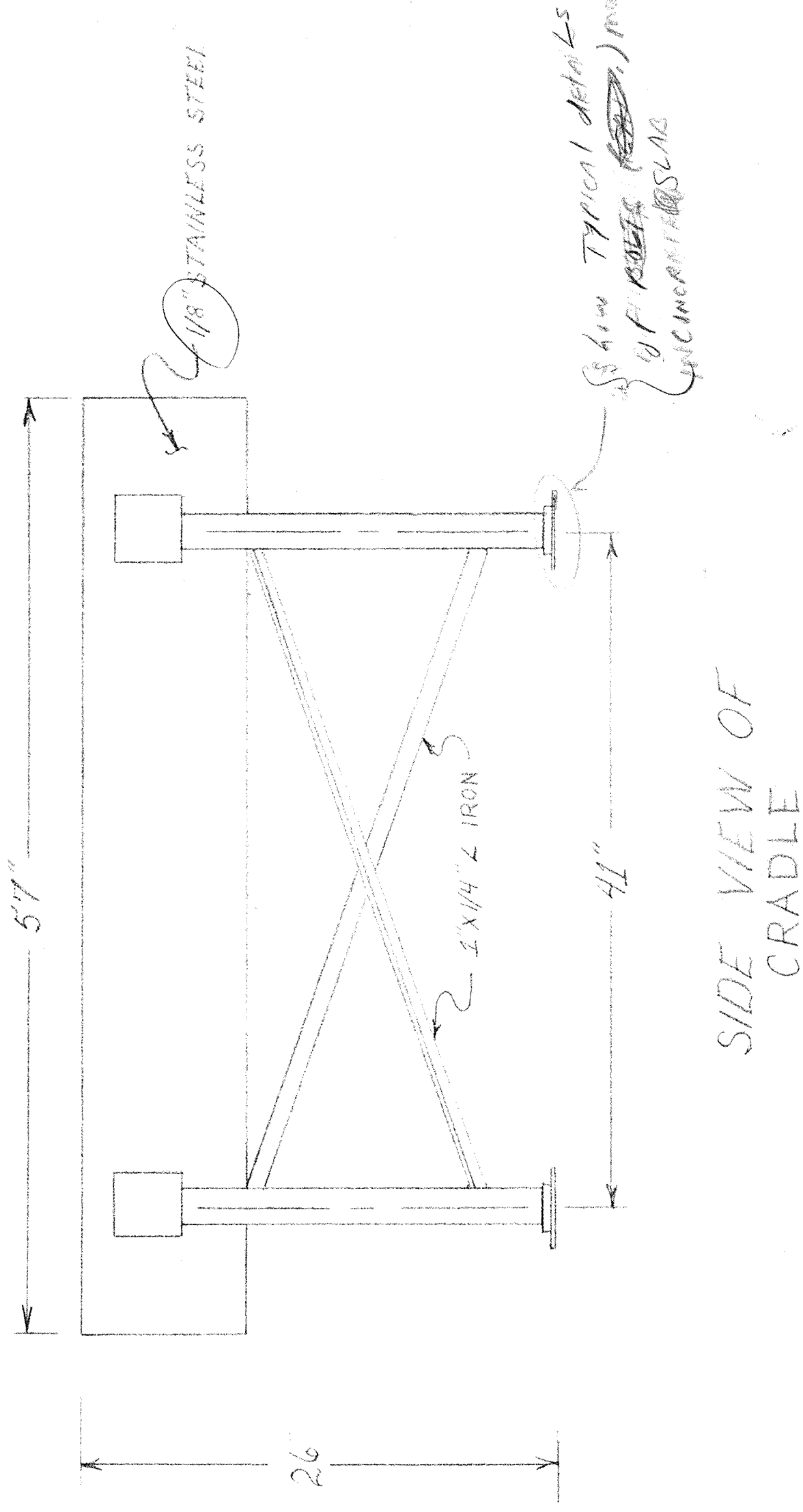


SIDE VIEW

ALL TAPS TO BE STAINLESS STEEL  
1/2" COUPLINGS AND WELDED TO THE  
TOP CENTERLINE OF TANK AND SPACED  
FROM THE DIMENSIONS OF THE TOP  
VIEW - THIS SHEET.



END VIEW-TYPICAL  
AT EACH END

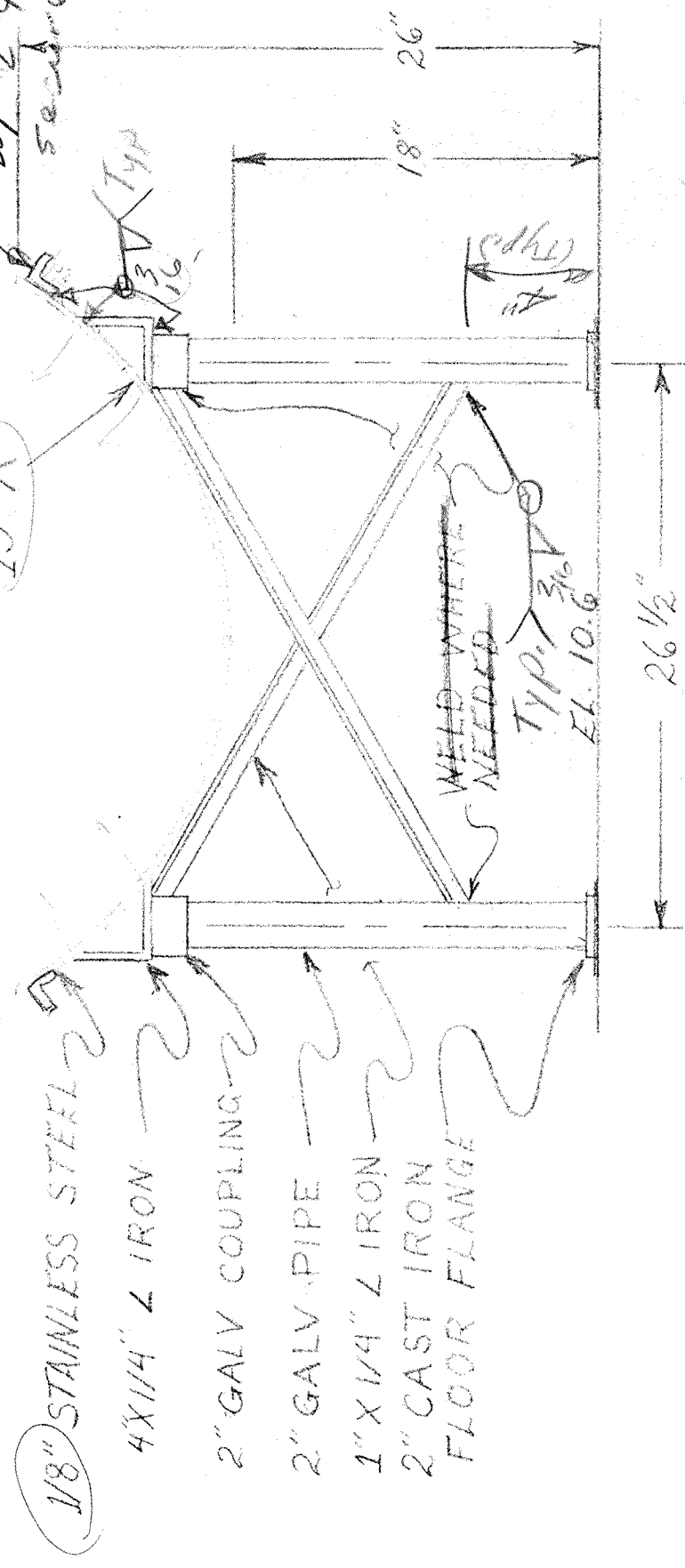


SIDE VIEW OF  
CRADLE

18" = 1" = 0"

Bent 1/2 4x4x4  
(Typ. ea. corner)

Bent 1/2 4x4x4  
w/ 2 1/4" BOLTS TO  
SECE-TANK.



END VIEW OF TANK CRADLE

Steel - A11m A36 Stainless Steel - A11m 276 Type  
304L  
Pipe - A11m A53 Grade B  
Paint: Inorg  
Savannah Road Bridge

No. 10: Fuel line and  
over-flow line  
to be on floor  
of machinery gallery.  
All cast concrete placed  
providing details.

275 GALLON FUEL TANK

SAVANNAH ROAD BRIDGE  
SCALE 1/2" = 1'-0"  
DATE 7-23-58  
DRAWN BY T. G. GIBBY  
275 GALLON TANK & CRADLE  
TUDOR ELECTRIC  
FT. I.

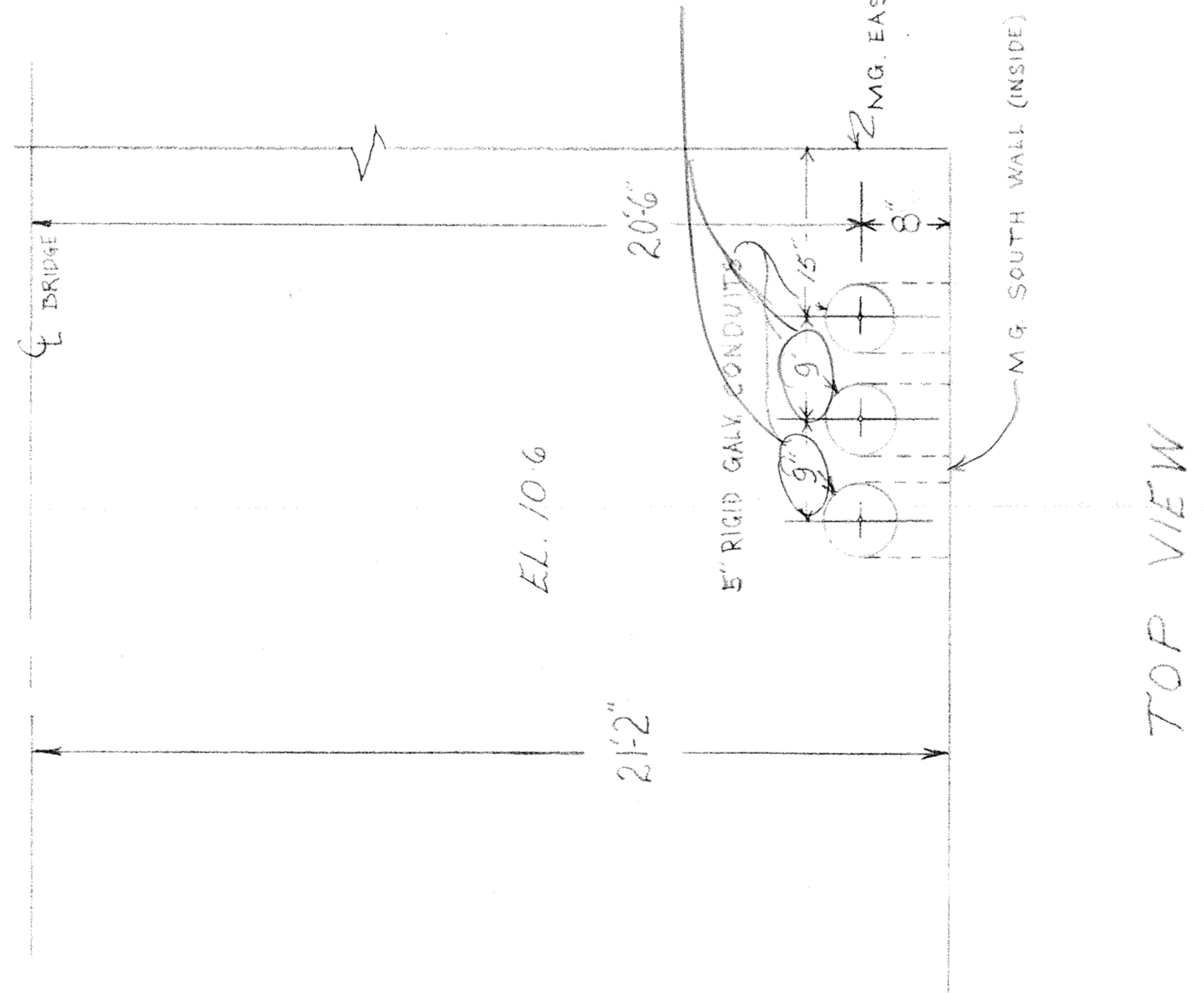




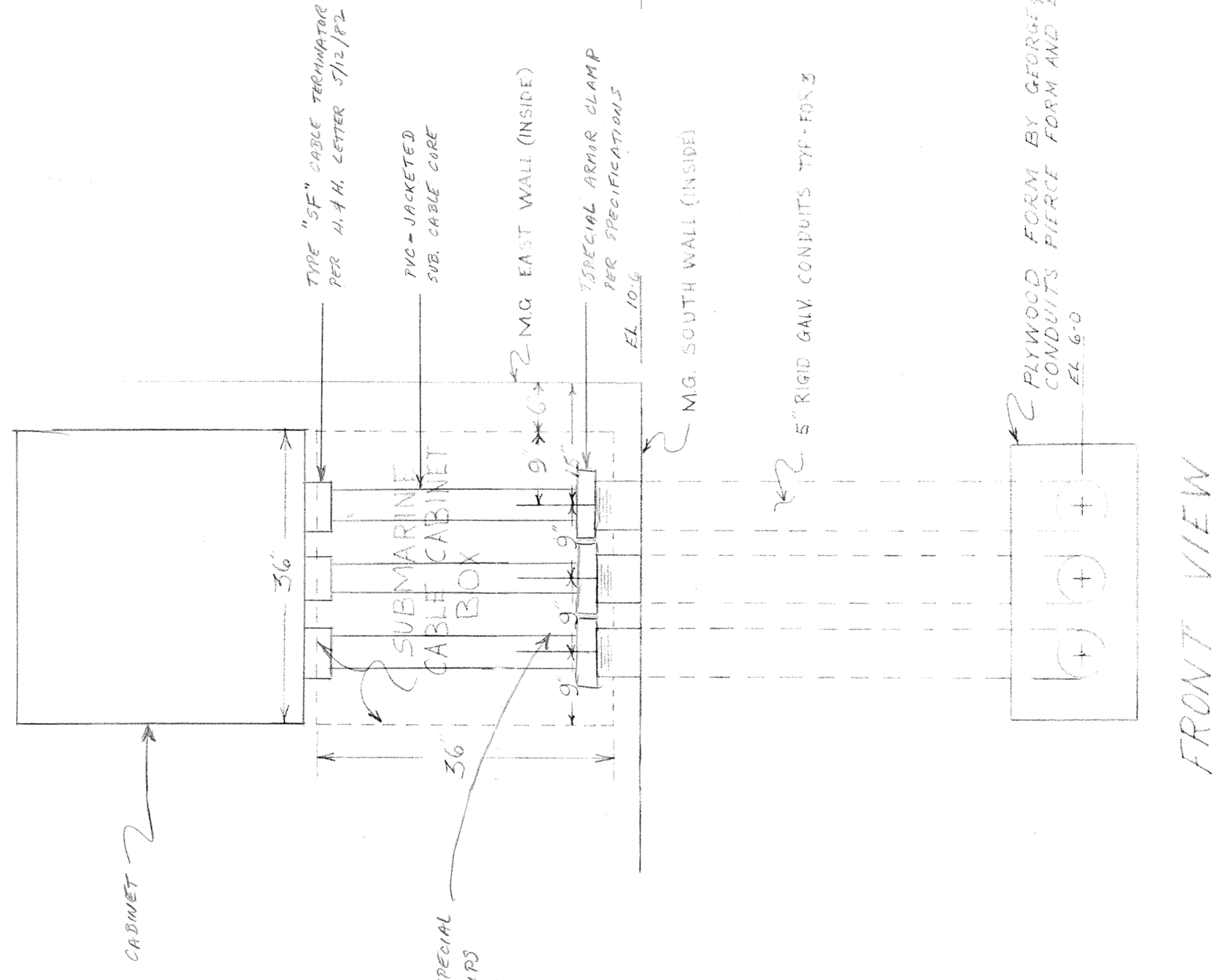




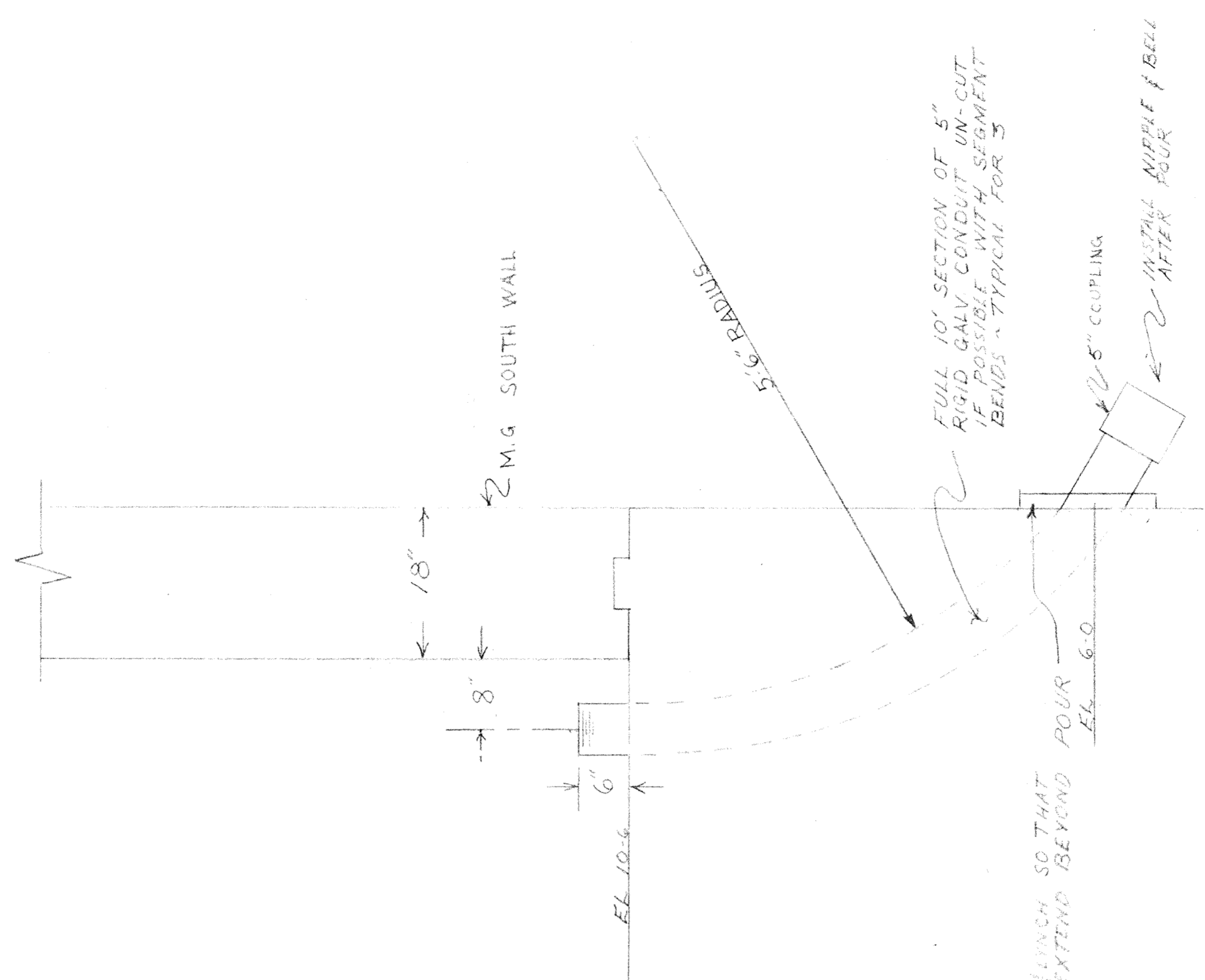




TOP VIEW



FRONT VIEW



SIDE VIEW

REVISE AND RESUBMIT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is only for conformance with the design concept in the Contract Documents. Contractor is responsible for determining the accuracy of the information used in the construction process and to interpret the construction, and for compliance with the Contract Documents.

HARDESTY & HANOVER  
 CONSULTING ENGINEERS  
 W. B. Burgers  
 JUL 6 1982  
 OFFICE COPY

**SUBMITTED**

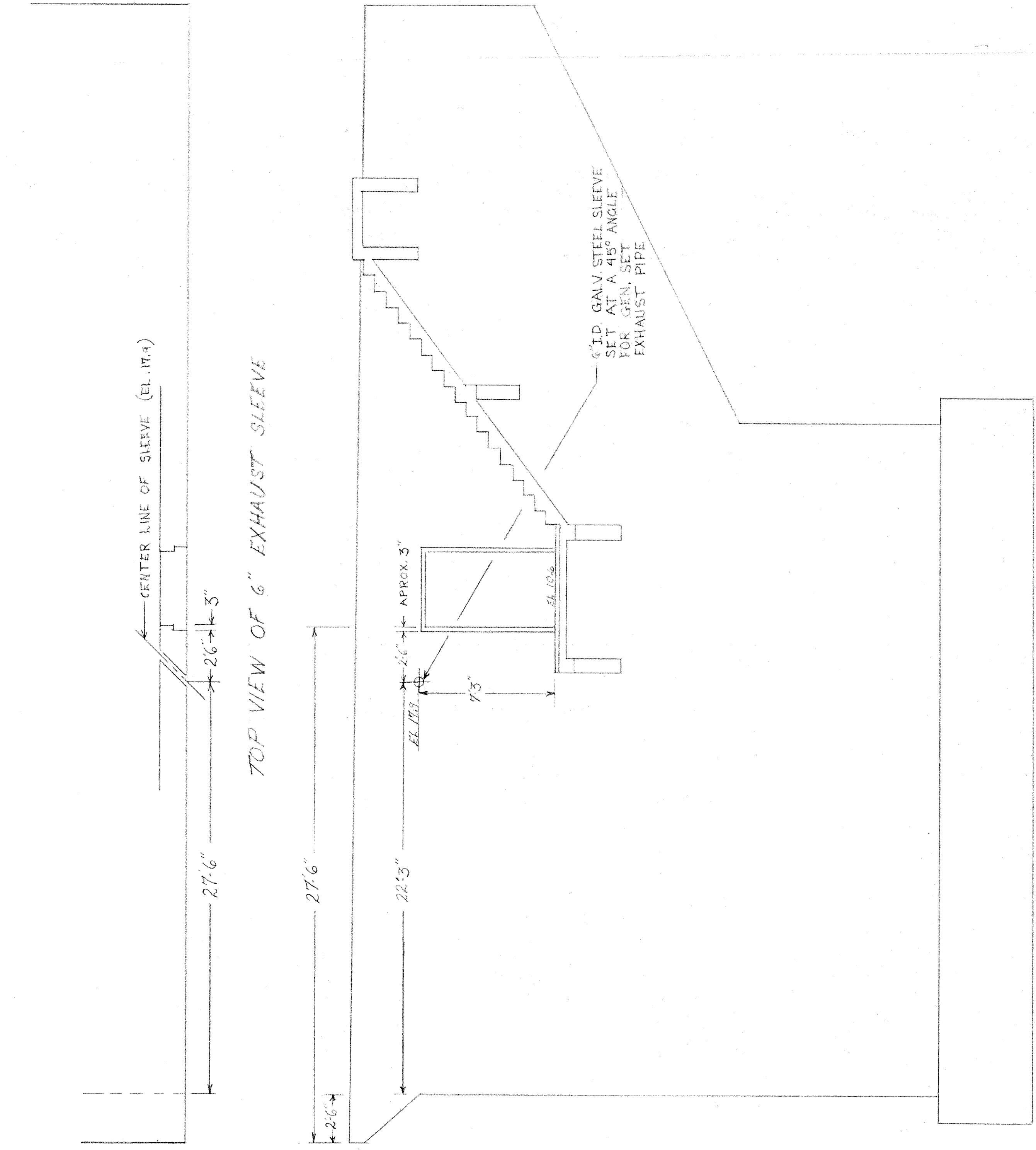
RD. *Burrows*

PIER  
 EAST LEAF SUBMARINE CABLE CONDUITS AND LAYOUT FOR FOOTER POUR

SAVANNAH BRIDGE	APPROVED BY	DATE
EAST LEAF FOOTER FOUR	PIER	
TUPPER ELECTRIC	DRAWN BY	DRAWING NUMBER
	BURGER	ELF.P1

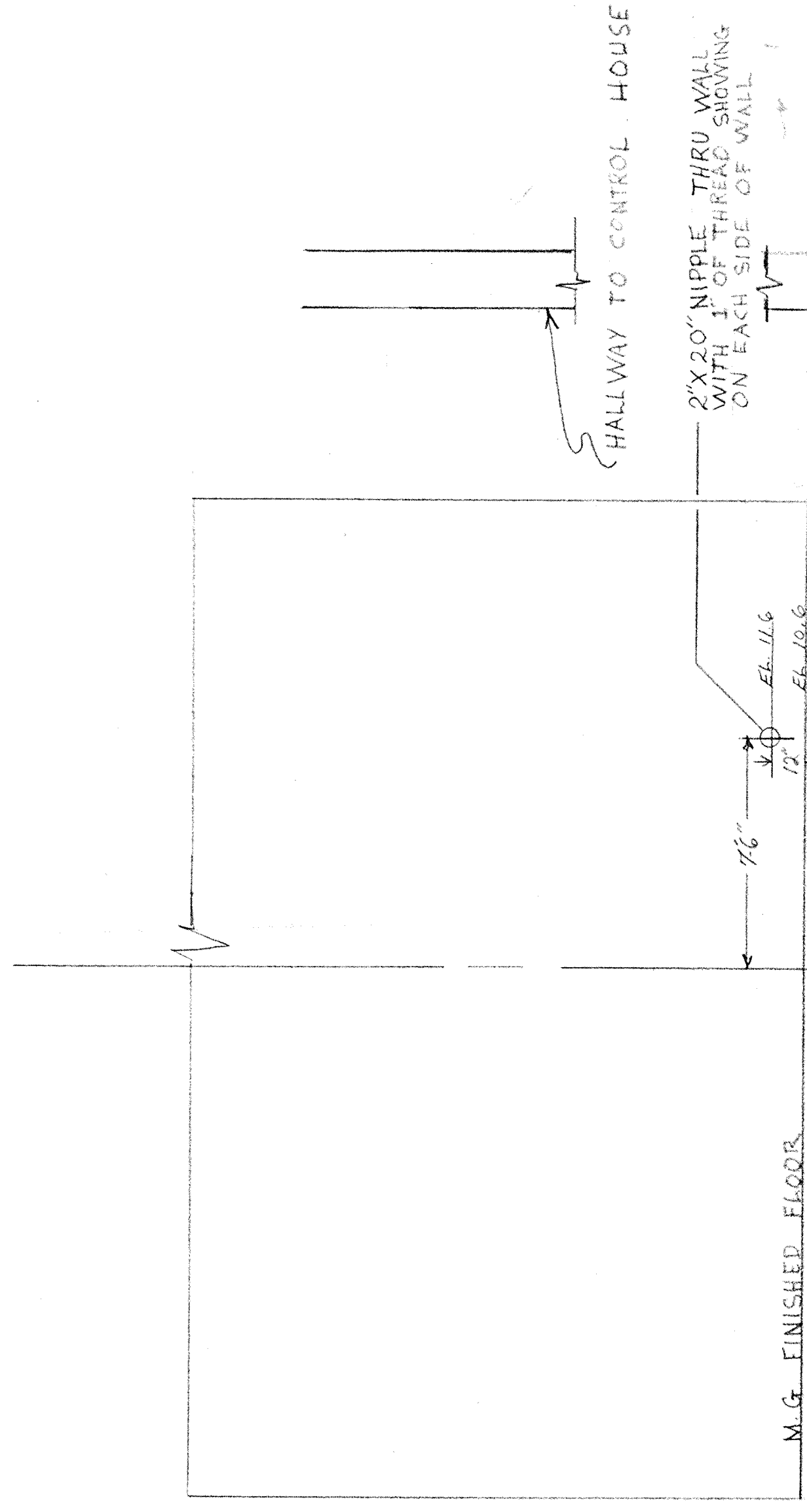




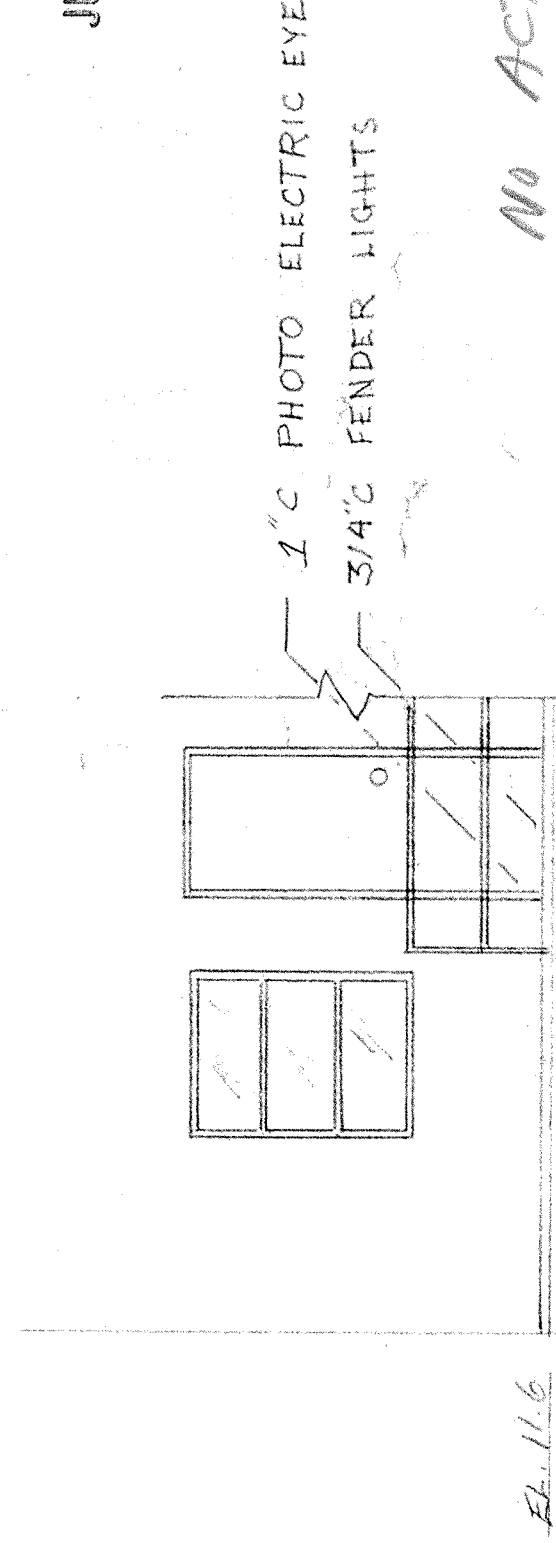


NORTH WALL ~ WEST LEAF

SCALE ~ 1/4" = 1 FT.



EAST WALL OF M.G. ~ WEST LEAF AS LOOKING FROM INSIDE M.G. SCALE ~ 1/4" = 1 FT.



NO ACTION!

SEE OUR TRANSMITTAL OF July 6, 1982 FOR REQUIRED CORRECTIONS

EAST EL. OF CONTROL HOUSE CONDUIT STUB OUTS SCALE ~ 1/4" = 1 FT.

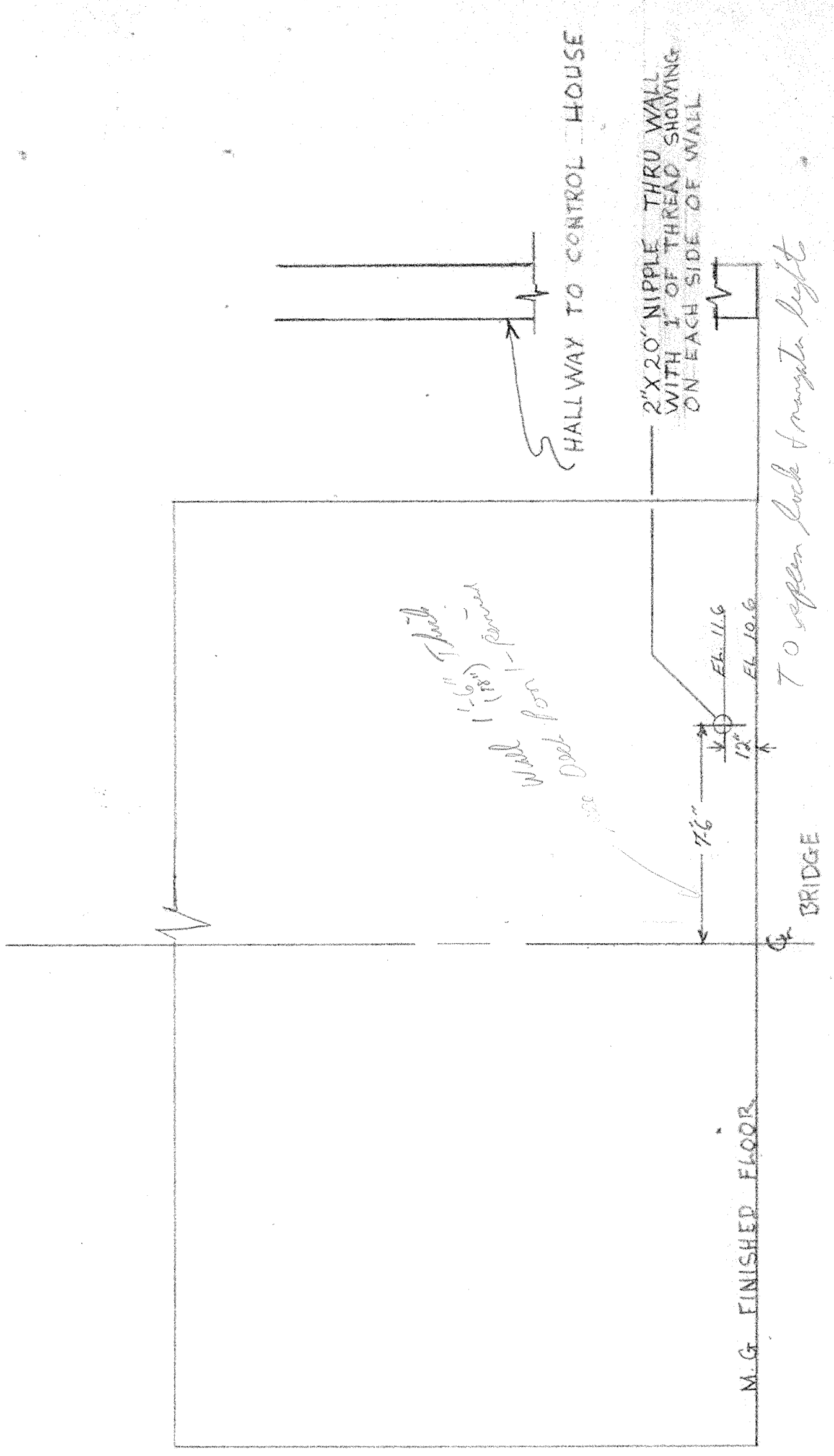
REUSE AND RESUBMIT  APPROVED  APPROVED AS NOTED   
 Checking is not the responsibility of the Project and compliance with the design, construction, and performance of the work is the responsibility of the Contractor. The Contractor is responsible for obtaining all necessary permits and for the safety of the work. The Contractor shall be responsible for the construction of the work of all trades, construction, and for the safety of the work.

HARPESTY & HANOVER CONSULTING ENGINEERS

JUL 29 1982

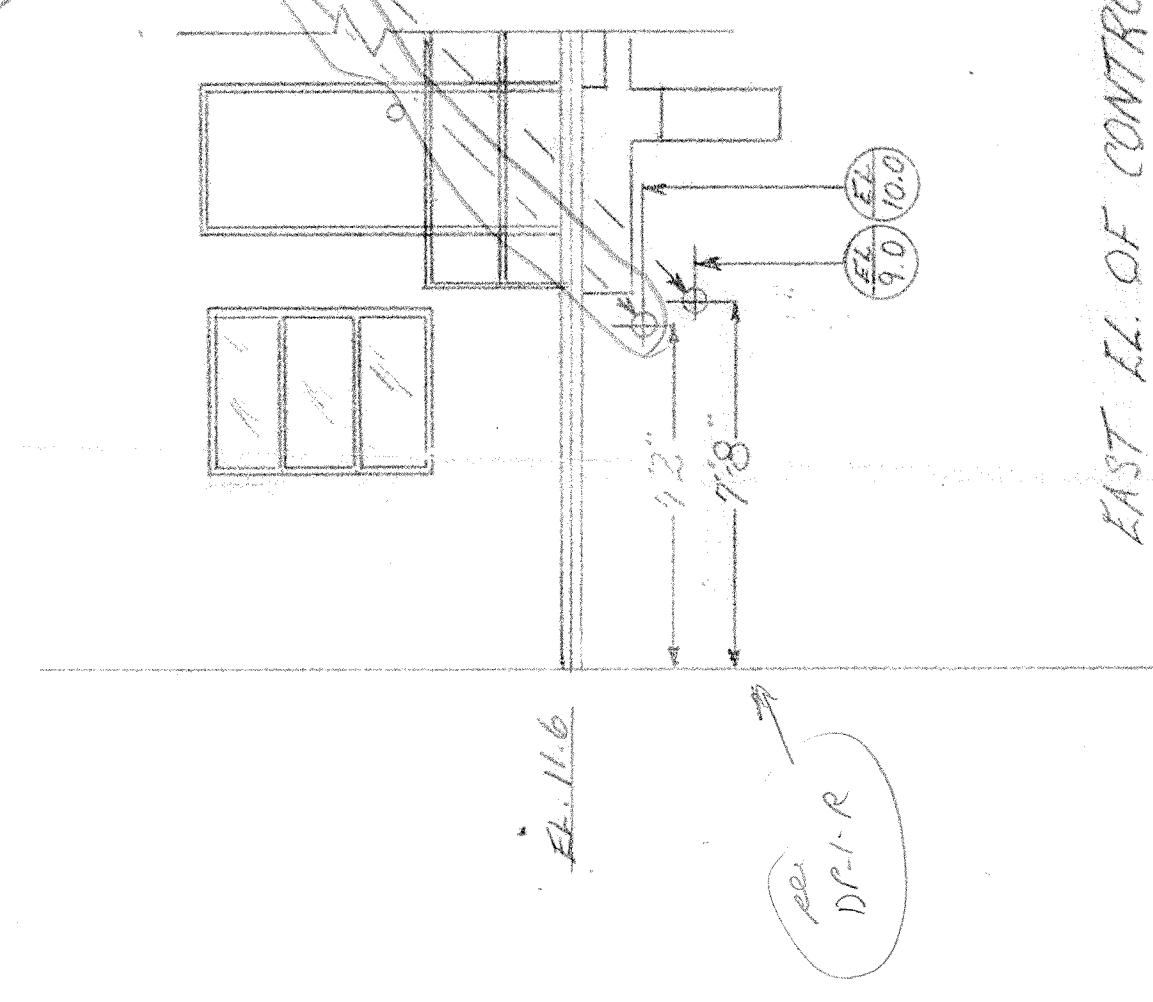
STRENGTHENED

SCALE: AS SHOWN	APPROVED BY: [Signature]	DRAWN BY: [Signature]
DATE: 6-28-82	SAVANNAH ROAD BRIDGE	
	MISC. CONDUIT DETAILS	
	TUDOR ELECTRIC	
	DRAWING NUMBER: MCD-1	



EAST WALL OF M.G. WEST LEAF  
AS LOOKING FROM INSIDE M.G.  
SCALE ~ 1/4" = 1 FT

*Incorrect Routing!*  
Photo cell to be mounted  
on roof, with conduit  
passing through the roof  
of the house - And not  
through this wall. See  
Sheet No. 60 of Contract  
Drawings for details



EAST WALL OF CONTROL HOUSE  
CONDUIT STUB OUTS  
SCALE ~ 1/4" = 1 FT

REVISE AND RESUBMIT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is only for conformance with the information of the Project and compliance with the information shown on the drawings. The Contractor is responsible for the dimensions to be confirmed and made responsible for the information that pertains solely to the fabrication and construction of the work of all trades.

HARDESTY & HANOVER  
CONSULTING ENGINEERS  
P. Casey  
JUL 6 1982

SAVANNAH ROAD BRIDGE

MISC. CONDUIT DETAILS

TUDOR ELECTRIC

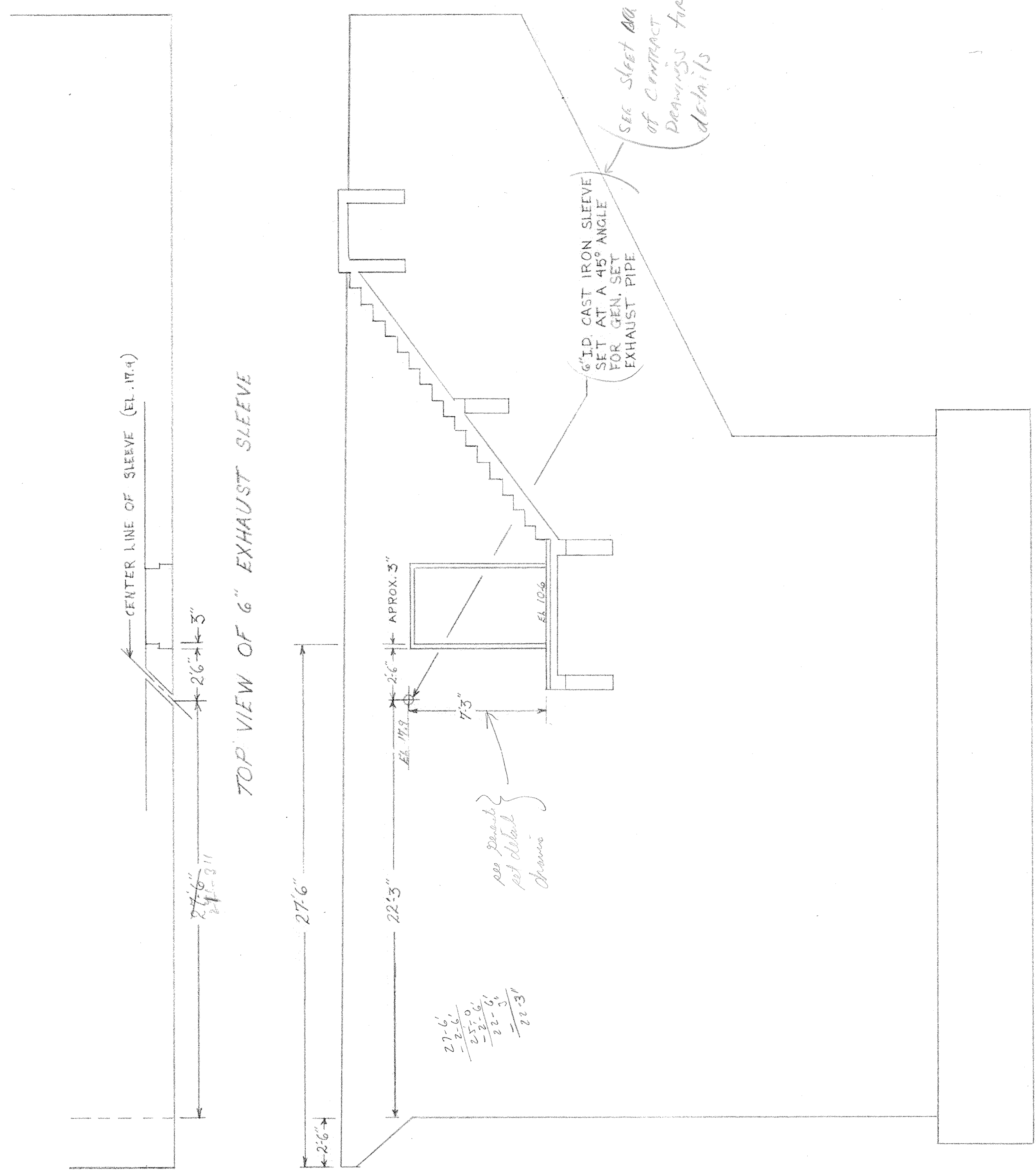
DRAWING NUMBER MCD-1

SCALE AS NOTED

DATE: 6-28-82

APPROVED BY

DRAWN BY



TOP VIEW OF 6" EXHAUST SLEEVE

NORTH WALL ~ WEST LEAF  
SCALE ~ 1/4" = 1 FT.

27'6"  
- 2'6"  
-----  
25'0"  
- 2'6"  
-----  
22'3"

see drawing  
for detail  
of  
chassis

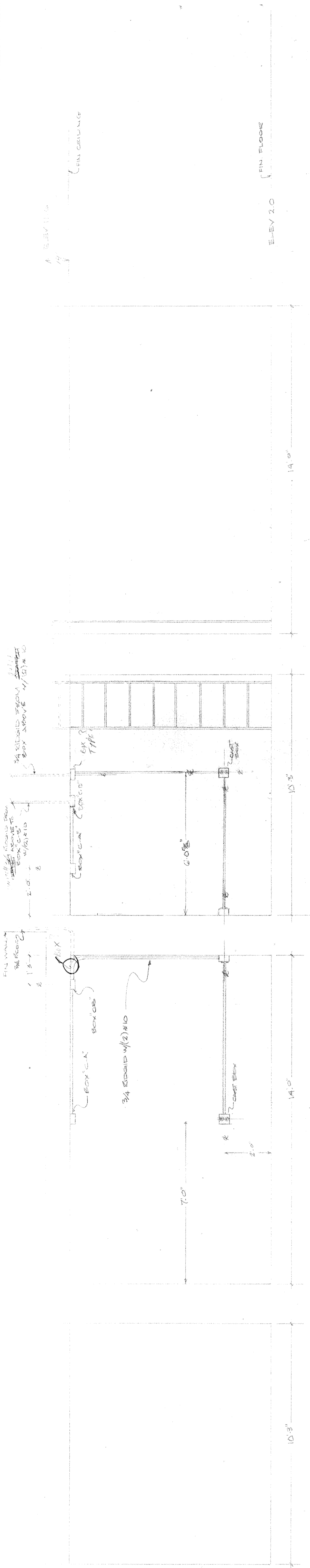
6" I.D. CAST IRON SLEEVE  
SET AT A 45° ANGLE  
FOR GEN. SET  
EXHAUST PIPE

SEE SHEET NO. 60  
OF CONTRACT  
DRAWINGS FOR  
DETAILS





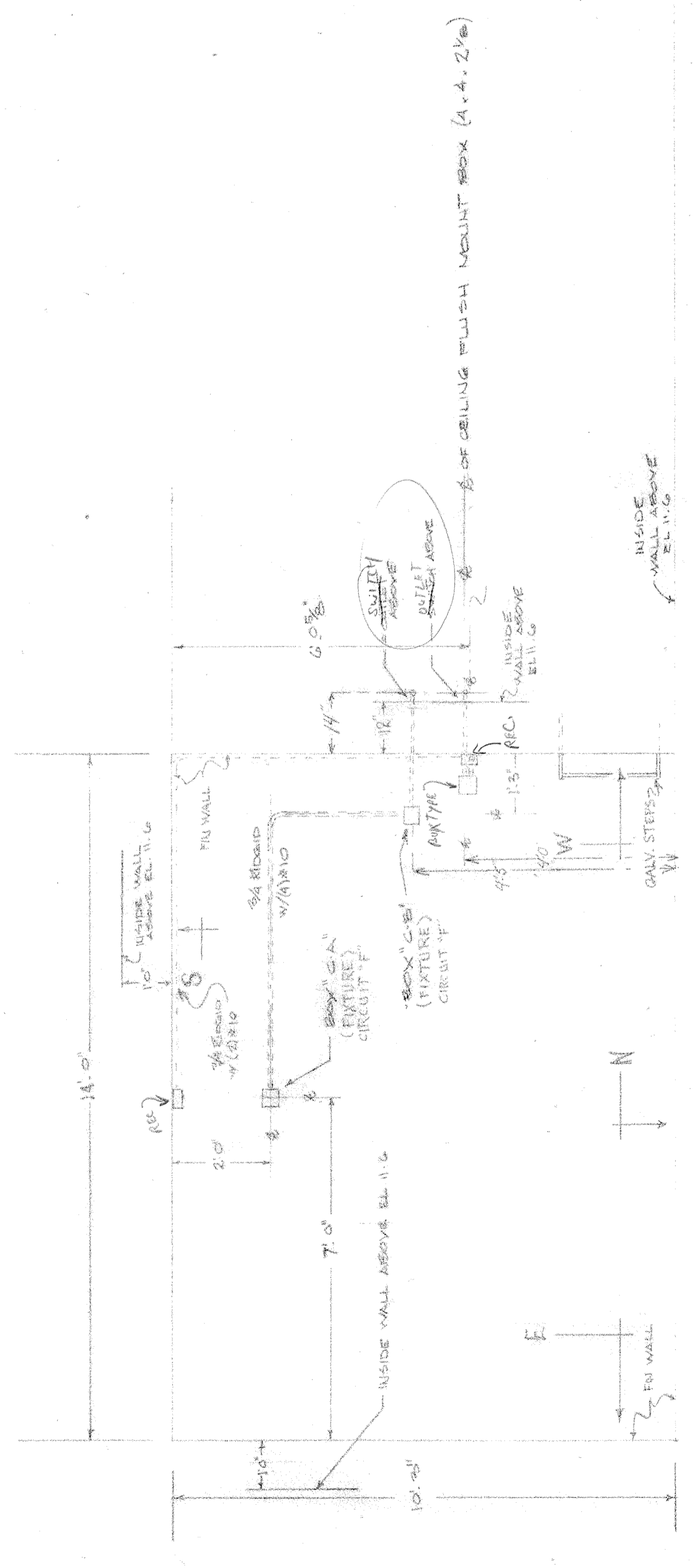




EAST INTERIOR WALL      SOUTH INT. WALL      WEST INT. WALL      NORTH INT. WALL

ELEVATIONS OF WALLS  
 ± 2.2 = 11'0" (FIN)

9-15  
 4-73



PLAN VIEW  
 1/8" = 1'-0"

STAMPED  
 DEC 13 1982

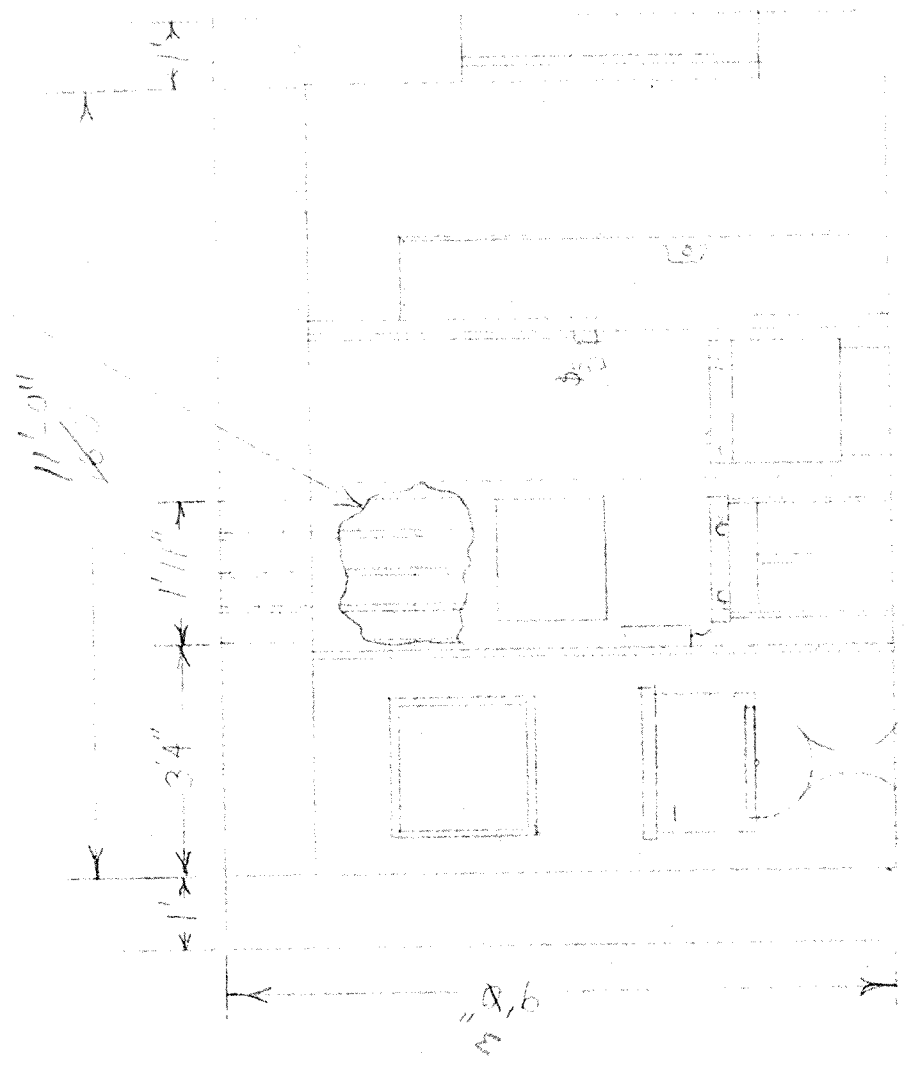
SAVANNAH	RD BRIDGE
LEWIS, DEL	
DATE: 11/25/82	APPROVED BY:
DRAWN BY: G. B. B. B.	
STORAGE RM. LIGHTS & REPT.	
TUDOR ELEC. CO.	DRAWING NUMBER: SRUR.1



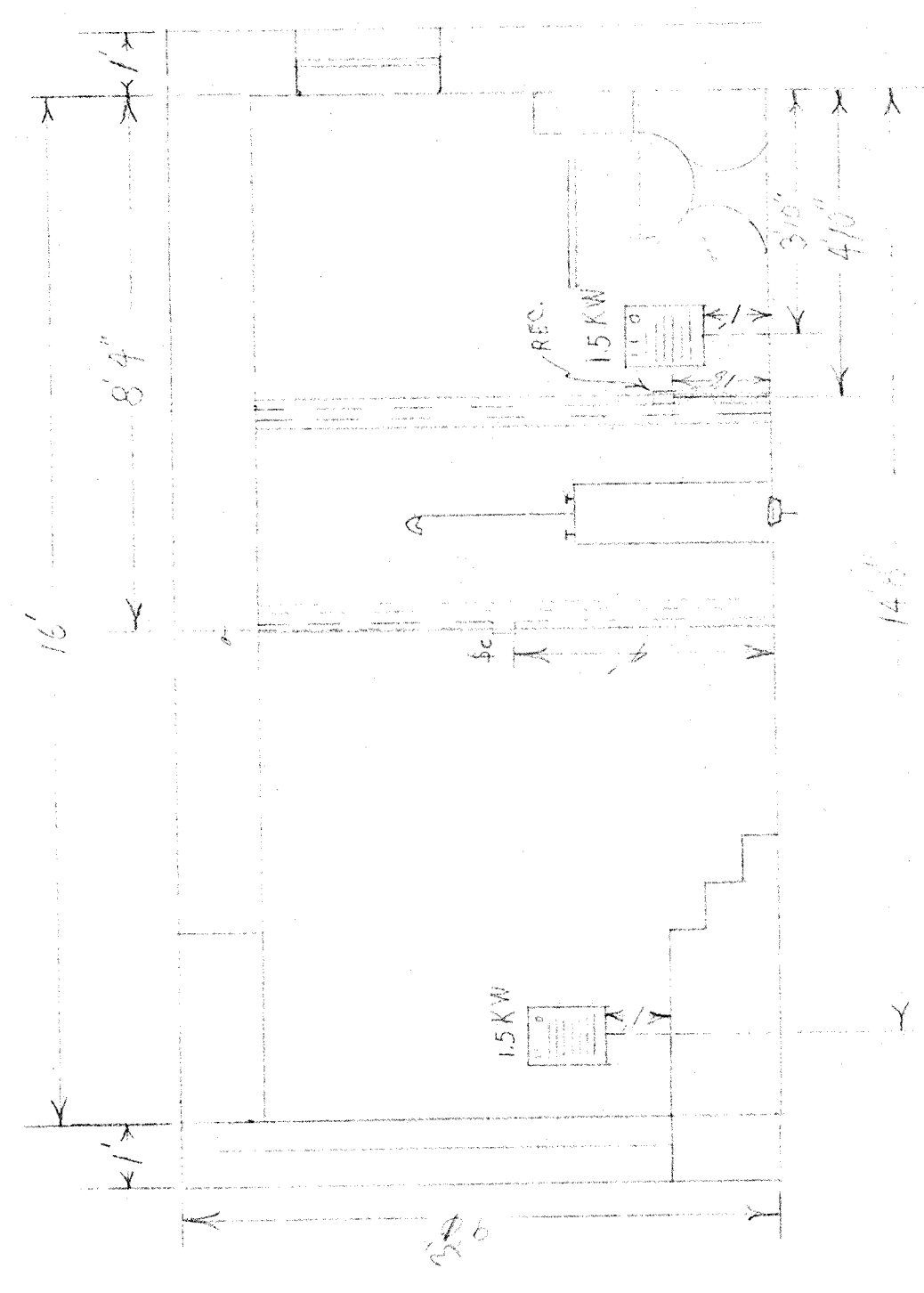




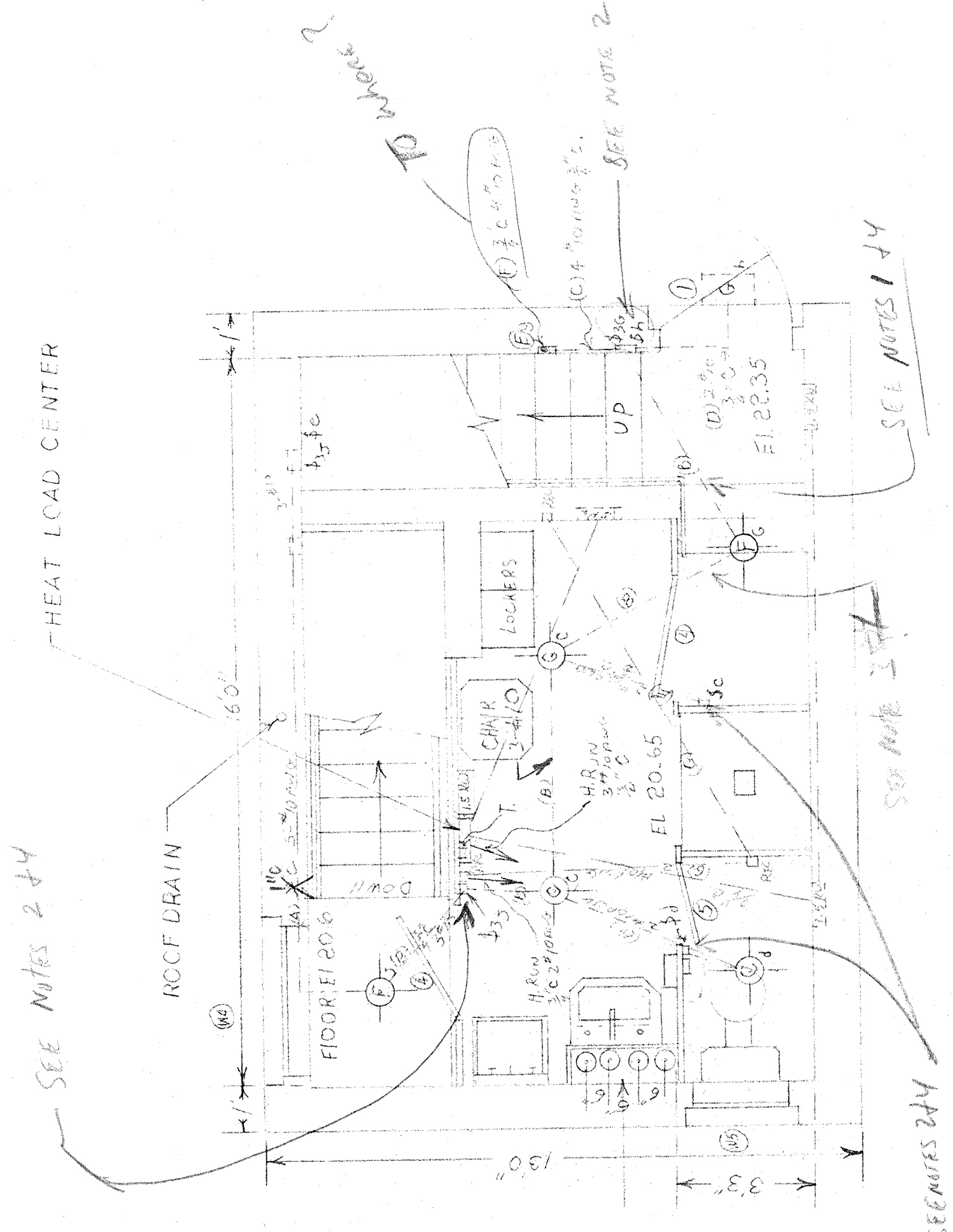
-4-4 CONDUITS FOR CONTROL PANEL IN CHASE



ELEVATION OF EAST WALL  
FIRST ELEVATION  
SCALE - 3/8" = 1 FOOT



ELEVATION OF NORTH WALL  
SCALE - 3/8" = 1 FOOT

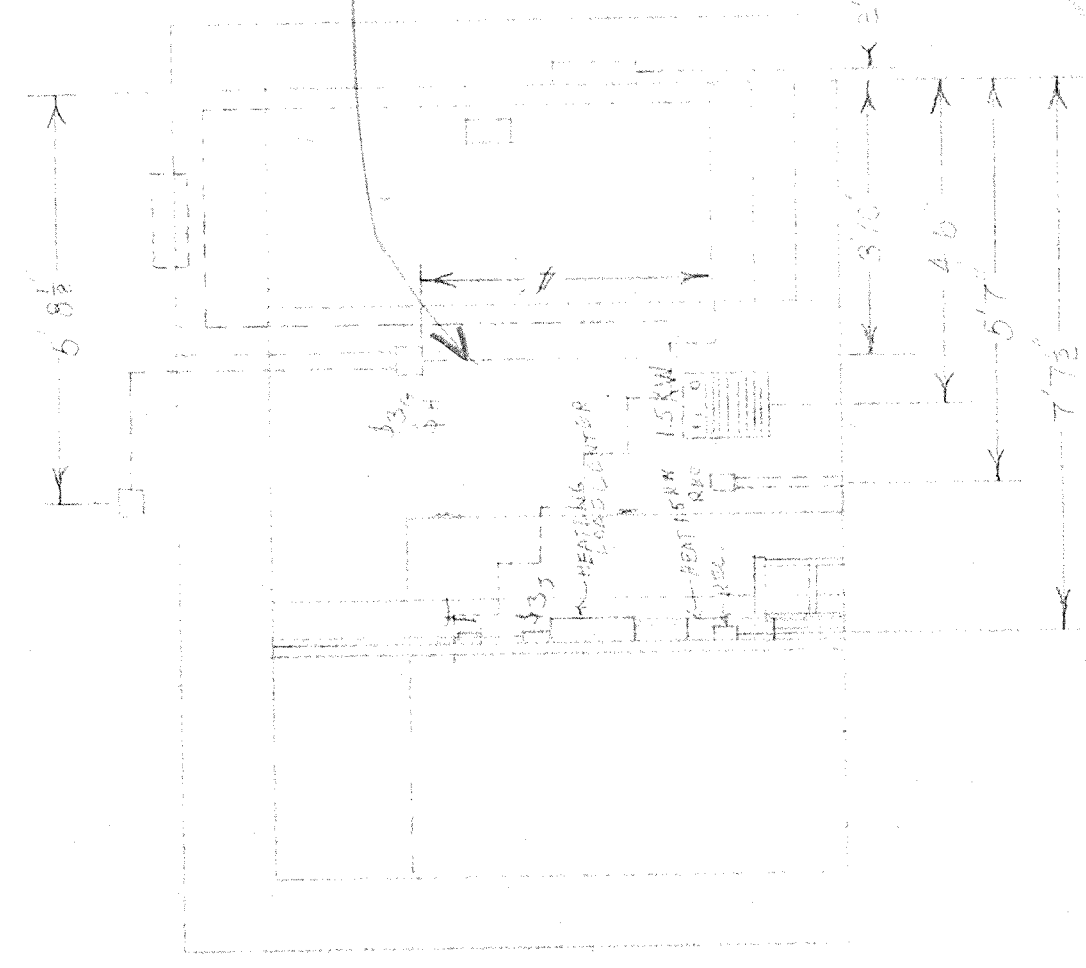


UTILITY OPERATORS' RM.  
SCALE - 3/8" = 1 INCH

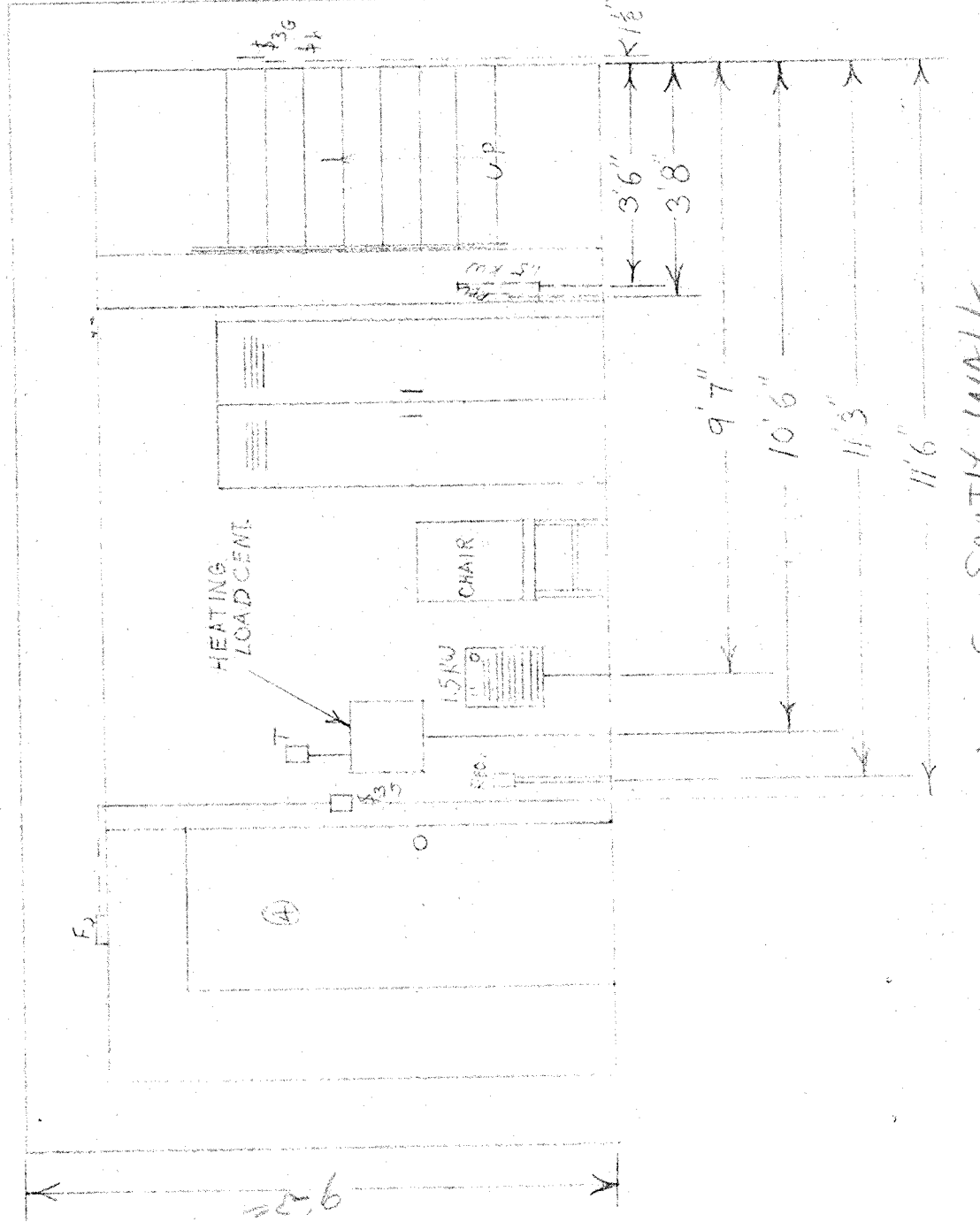
NOTE ALL SWITCHES SHALL BE 4 FEET RECEPTILES 18" ABOVE FLOOR

Lighting Comments

- 1) How do we run get to light D & C?
- 2) How are these circuits connected to the control panels?
- 3) Why is this run required?
- 4) We need to know the routing of these circuits



ELEVATION OF WEST WALL  
WEST ELEVATION  
SCALE - 3/8" = 1 FOOT



ELEVATION OF SOUTH WALL  
SCALE - 3/8" = 1 FOOT

WASNE AND RESIDENT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is only for conforming with the design except where noted. It is not intended to constitute a warranty or a contract. The contractor shall be responsible for the proper installation and operation of the work. The contractor shall be responsible for the proper installation and operation of the work. The contractor shall be responsible for the proper installation and operation of the work.

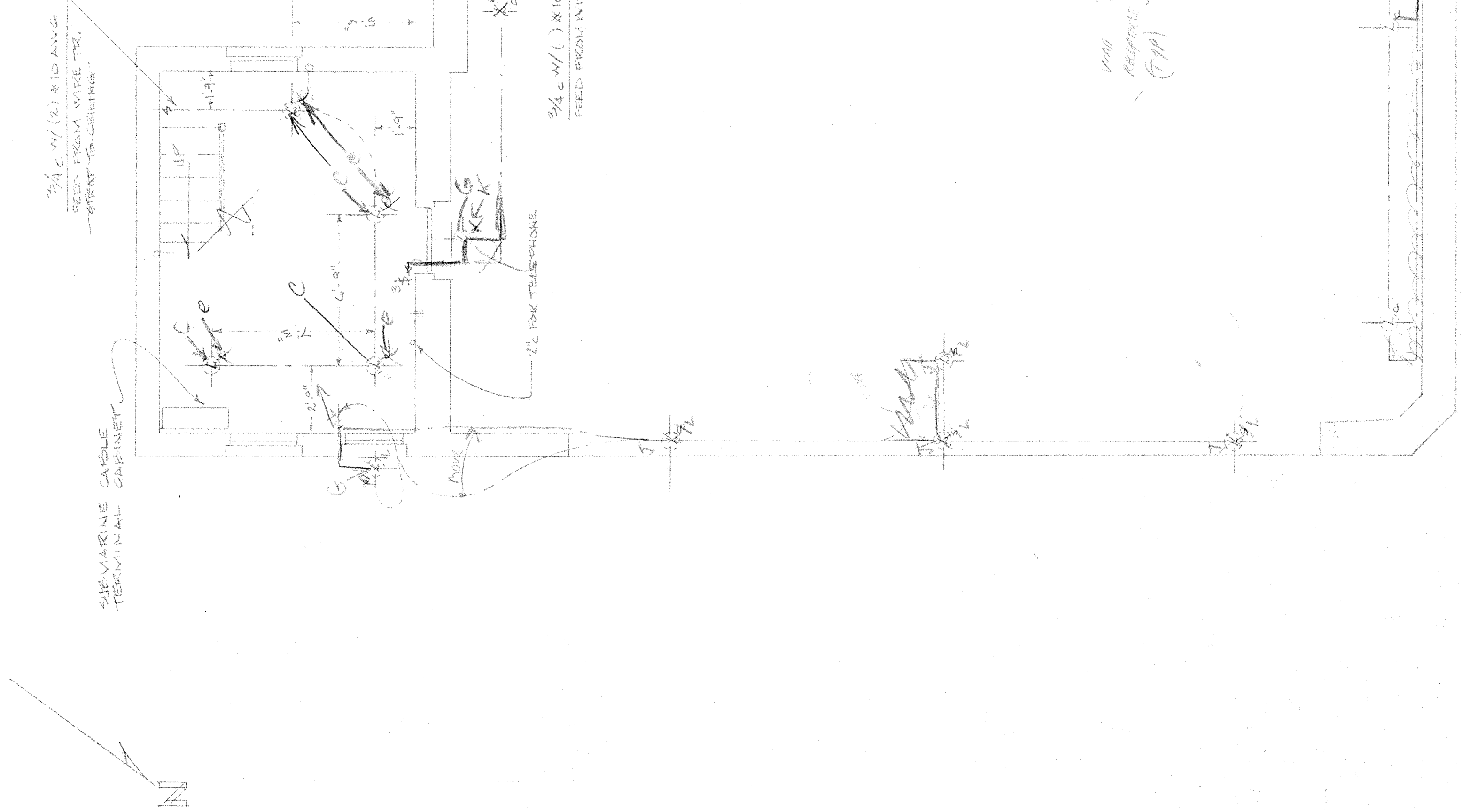
SEE NOTE TO LIGHT D & C?

HARDESTY & HANOVER  
CONSULTING ENGINEERS  
Pat Cary  
SEP 14 1982

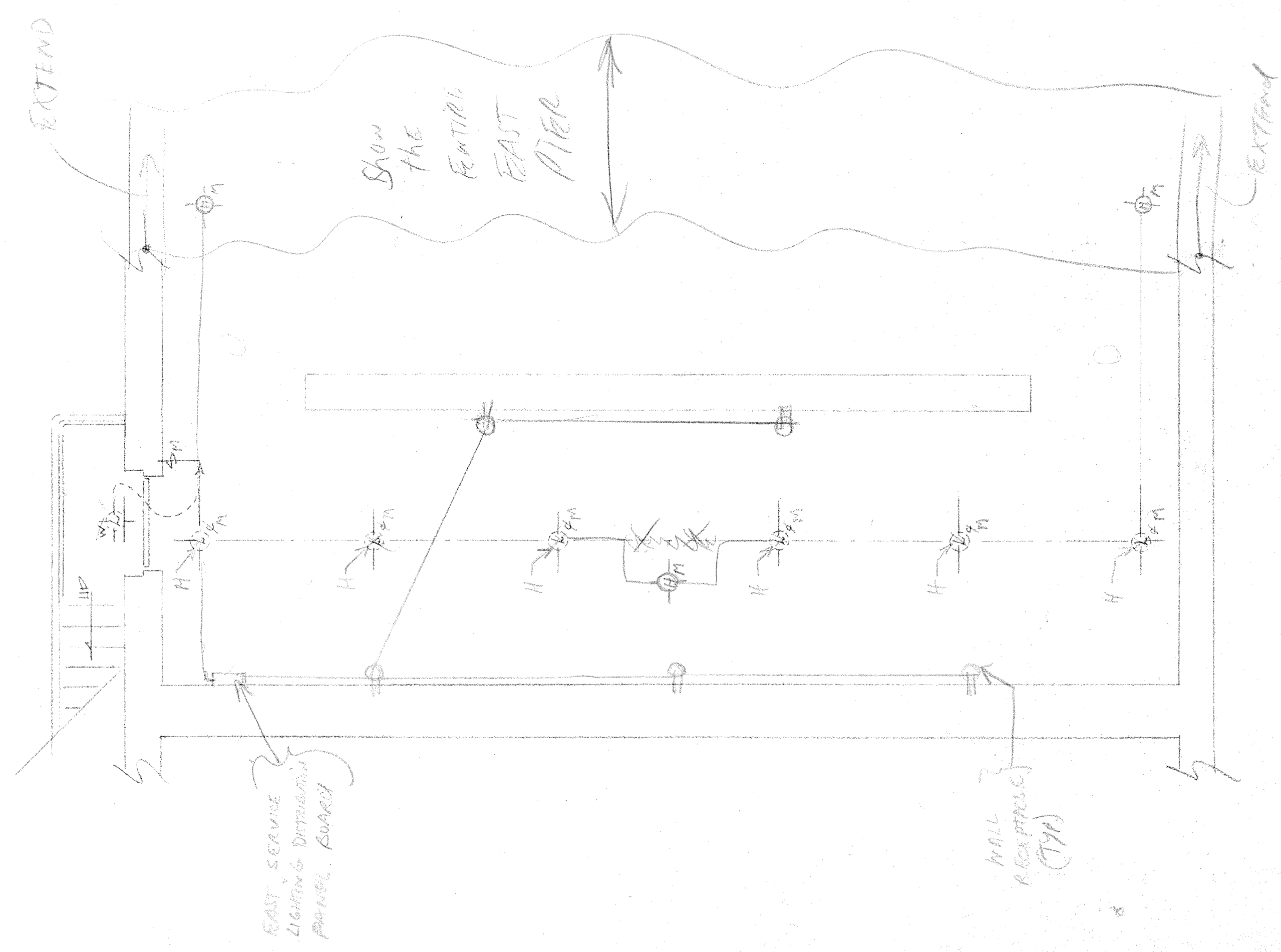
UTILITY ROOM  
CONTROL HOUSE CONDUIT LAYOUT?  
SAVANNAH ROAD BRIDGE

SAVANNAH ROAD BRIDGE	DATE: 9/14/82	APPROVED BY: [Signature]	DRAWN BY: L.H.D.
UTILITY ROOM CONDUIT PLAN	SCALE: 3/8" = 1 FOOT	DATE: 9/14/82	CONDUIT LAYOUT AND CONDUIT SIZE
			NO. AND GAGE OF CONDUCTORS
			DRAWING NUMBER # 2

SUPERSEDED



= WEST =  
MACHINERY  
PLATFORM



= EAST =  
MACHINERY  
PLATFORM

REVISE AND RESUBMIT  APPROVED   
 NOT APPROVED  APPROVED AS NOTED   
 Checking is only for conformance with the design concept in the Contract Documents. Contractor is responsible for the design and construction of the system. This drawing is for information only and does not constitute a contract. For information that pertains solely to the fabrication process or to techniques of construction and for construction methods, refer to the specifications and the contract documents.

HARDESTY & HANOVER  
CONSULTING ENGINEERS

SEP 28 1982  
Pat Gray

PROVIDE A BETTER NUMBERING SYSTEM FOR THE DRAWING. DMS #3 WAS ALREADY USED FOR THE ROOM DESIGNATION OF THE OPERATORS LAYOUT.

CIRCUIT LINE

1-1	SURFACE MOUNT LIGHT
1-2	CEILING MOUNT LIGHT CALLED IN SLAB
1-3	WALL MOUNT LIGHT
1-4	EMERGENCY LIGHT

SAVANNAH BRIDGE  
LEWIS, DEL  
 SCALE AS NOTED  
 DATE 9/2/82  
 APPROVED BY  
 TUDOR ELEC NOV 1982  
 DRAWING NUMBER  
 HANOVER

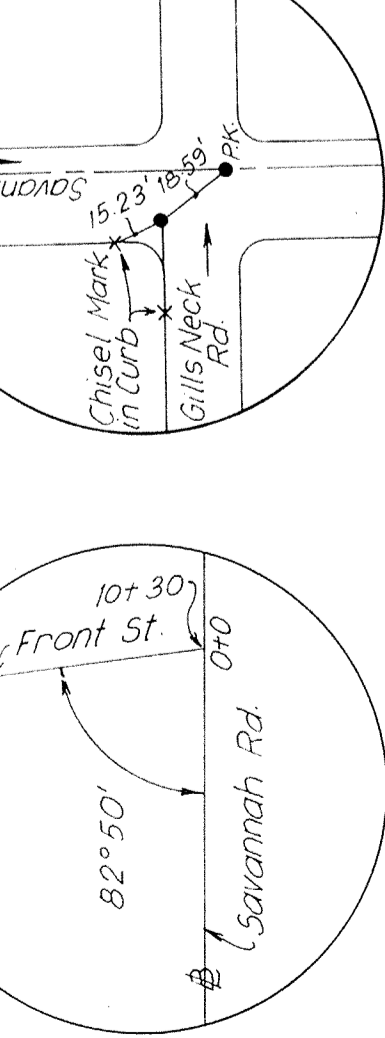


CONTRACT	COUNTY	STATE	R.P.R. REG. NO.	FISCAL YEAR	SHEET NUMBER	TOTAL SHEETS
80-023-02	SUSSEX	DEL.	2			

SHEET # 10

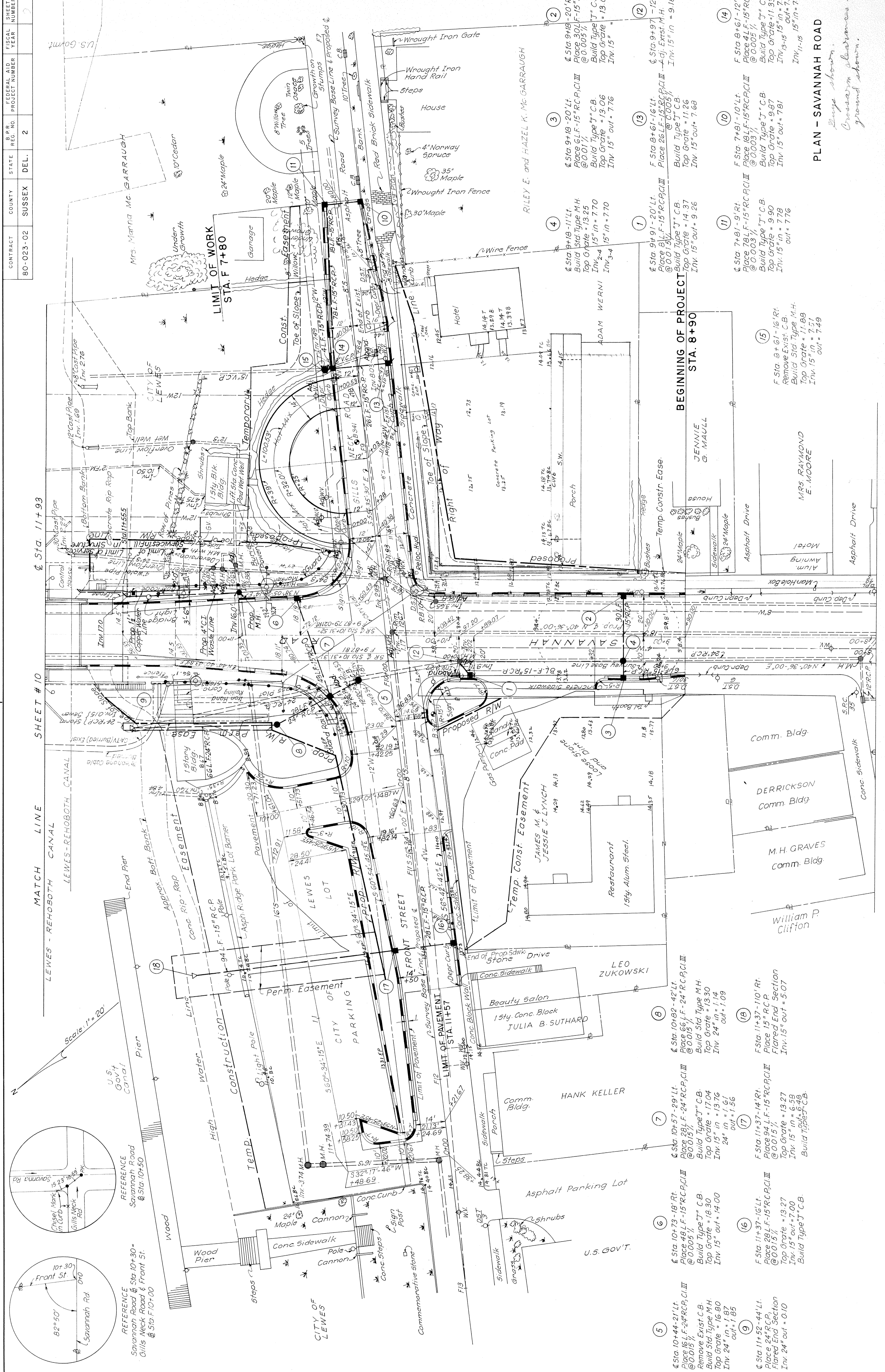
MATCH LINE

Scale 1" = 20'



REFERENCE Savannah Road @ Sta. 10+30 = Gills Neck Road & Front St. @ Sta. F10+00

REFERENCE Savannah Road @ Sta. 10+50 = U.S. Govt. Canal



LIMIT OF WORK STA. F 7+80

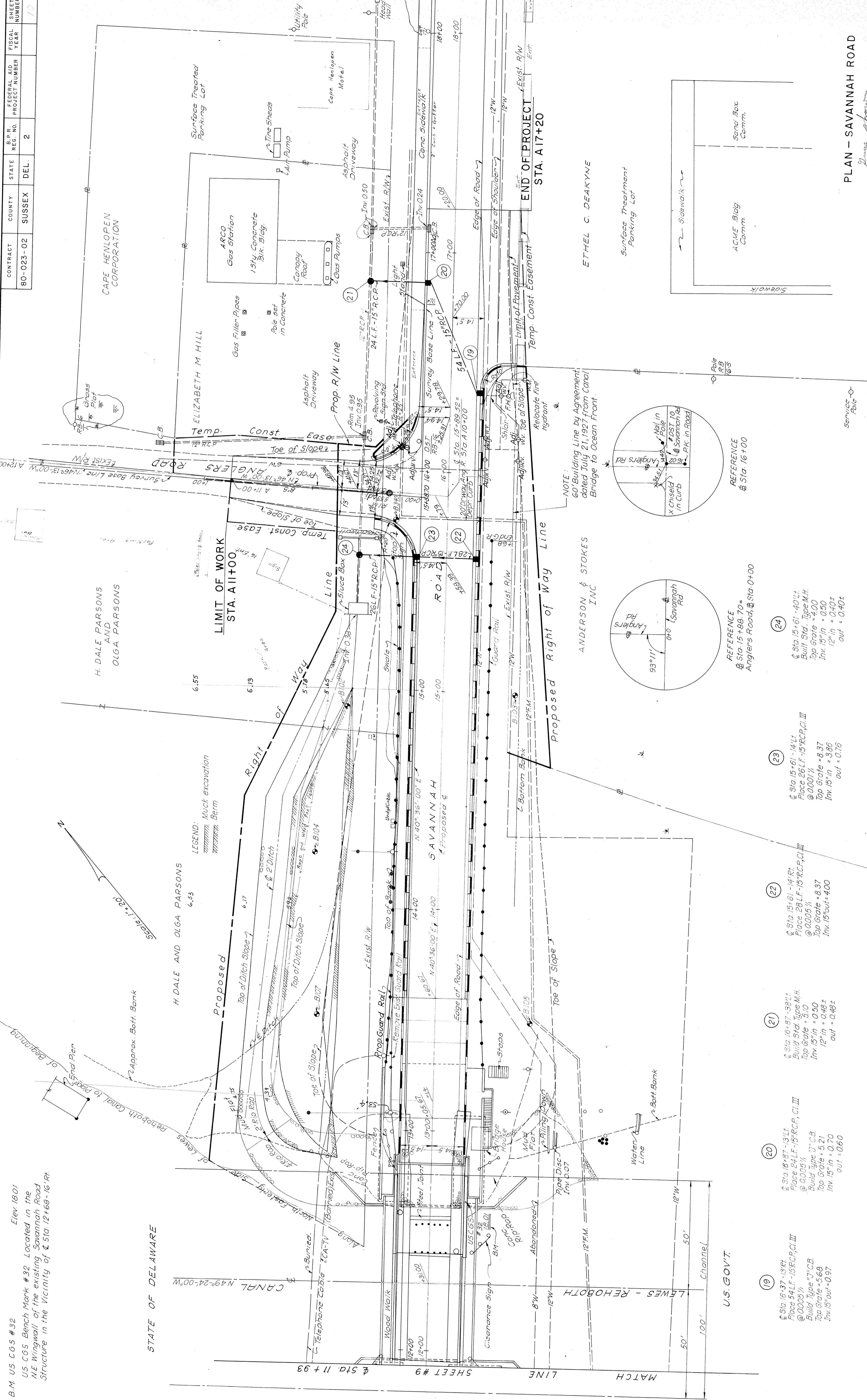
BEGINNING OF PROJECT STA. 8+90

PLAN - SAVANNAH ROAD

Buyer shown.  
Cross-section elevations to ground shown.

- (1) Sta. 9+91-20' Lt. Place 8" L.F.-15" R.C.P. III @ 0.005% / Build Type "J" C.B. Top Grate = 14.37 Inv. 15" out = 9.26
- (2) Sta. 9+18-20' Lt. Place 30" L.F.-15" R.C.P. III @ 0.005% / Build Type "J" C.B. Top Grate = 13.06 Inv. 15" out = 7.76
- (3) Sta. 9+18-20' Lt. Place 30" L.F.-15" R.C.P. III @ 0.005% / Build Type "J" C.B. Top Grate = 13.06 Inv. 15" out = 7.76
- (4) Sta. 9+18-20' Lt. Place 30" L.F.-15" R.C.P. III @ 0.005% / Build Type "J" C.B. Top Grate = 13.06 Inv. 15" out = 7.76
- (5) Sta. 10+44-91' Lt. Place 16" L.F.-24" R.C.P. C.I. III @ 0.005% / Remove Exist. C.B. Build Sid. Type M.H. Top Grate = 16.80 Inv. 24" in = 1.87 out = 1.85
- (6) Sta. 10+73-18' Rt. Place 48" L.F.-15" R.C.P. C.I. III @ 0.005% / Build Type "J" C.B. Top Grate = 18.30 Inv. 15" in = 13.76 24" in = 1.61 out = 1.56
- (7) Sta. 10+57-29' Lt. Place 28" L.F.-24" R.C.P. C.I. III @ 0.015% / Build Sid. Type M.H. Top Grate = 17.04 Inv. 15" in = 13.76 24" in = 1.61 out = 1.56
- (8) Sta. 10+80-42' Lt. Place 66" L.F.-24" R.C.P. C.I. III @ 0.015% / Build Sid. Type M.H. Top Grate = 13.30 Inv. 24" in = 1.14 out = 1.09
- (9) Sta. 11+37-16' Lt. Place 24" R.C.P. C.I. III @ 0.015% / Remove Exist. C.B. Flared End Section Top Grate = 13.27 Inv. 15" out = 7.00 24" in = 6.29 20" in = 4.49 Build Type "J" C.B. out = 0.10
- (10) Sta. 7+81-9' Rt. Place 78" L.F.-15" R.C.P. C.I. III @ 0.003% / Build Type "J" C.B. Top Grate = 9.90 Inv. 15" in = 7.78 out = 7.76
- (11) Sta. 7+81-9' Rt. Place 78" L.F.-15" R.C.P. C.I. III @ 0.003% / Build Type "J" C.B. Top Grate = 9.90 Inv. 15" in = 7.78 out = 7.76
- (12) Sta. 8+61-12' Rt. Place 48" L.F.-15" R.C.P. C.I. III @ 0.005% / Build Type "J" C.B. Top Grate = 11.33 Inv. 15" in = 7.55 out = 7.53 Inv. 11" in = 7.55
- (13) Sta. 8+61-16' Lt. Place 26" L.F.-15" R.C.P. C.I. III @ 0.005% / Build Type "J" C.B. Top Grate = 14.37 Inv. 15" out = 7.68
- (14) Sta. 8+61-12' Rt. Place 48" L.F.-15" R.C.P. C.I. III @ 0.005% / Build Type "J" C.B. Top Grate = 11.33 Inv. 15" in = 7.55 out = 7.53
- (15) Sta. 8+61-16' Lt. Place 26" L.F.-15" R.C.P. C.I. III @ 0.005% / Remove Exist. C.B. Build Sid. Type M.H. Top Grate = 11.89 Inv. 15" in = 7.51 out = 7.49

CONTRACT NO.	80-023-02	COUNTY	SUSSEX	STATE	DEL.	B.P.R. REG. NO.	2	FEDERAL AID PROJECT NUMBER		FISCAL YEAR		SHEET NUMBER	13	TOTAL SHEETS	15
--------------	-----------	--------	--------	-------	------	-----------------	---	----------------------------	--	-------------	--	--------------	----	--------------	----



B.M. U.S. CGS #32 Elev. 18.01  
 U.S. CGS Bench Mark #32 Located in the  
 NE Wingwall of the existing Savannah Road  
 Structure in the Vicinity of Sta. 12+68-16' RT

STATE OF DELAWARE

H. DALE AND OLGA PARSONS  
 6.53  
 6.17  
 6.13  
 6.55

LEGEND:  
 Muck excavation  
 Berm

SHEET #9  
 & STA. 11+93

LINE

MATCH

U.S. GOV'T.

LEWES - REHOBOTH

Channel

50'

100'

50'

12' F.M.

12' W

12' W

12' W

12' W

12' W

12' W

12' W

12' W

12' W

12' W

(19) \$ Sta. 16+37 - 13' RT  
 Place 54 LF - 15' R.C.P., CI, III  
 @ 0.005 %  
 Build Type "T" CB  
 Top Grade = 5.69  
 Inv. 15' in = 0.97  
 out = 0.60

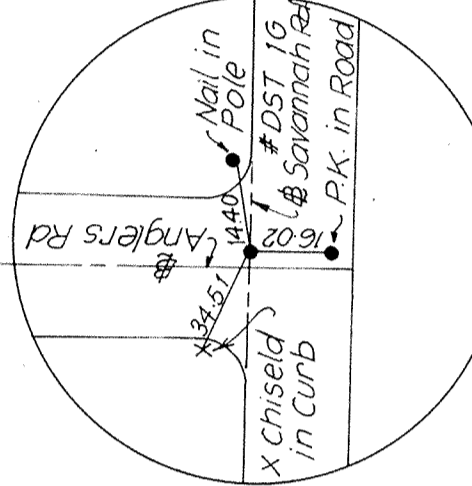
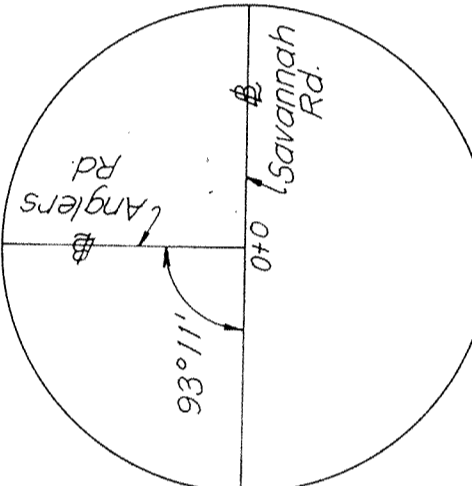
(20) \$ Sta. 16+87 - 13' RT  
 Place 24 LF - 15' R.C.P., CI, III  
 @ 0.005 %  
 Build Type "T" CB  
 Top Grade = 5.21  
 Inv. 15' in = 0.70  
 out = 0.60

(21) \$ Sta. 16+87 - 13' RT  
 Place 24 LF - 15' R.C.P., CI, III  
 @ 0.005 %  
 Build Type "T" CB  
 Top Grade = 5.10  
 Inv. 15' in = 0.50  
 out = 0.48 ±

(22) \$ Sta. 15+61 - 14' RT  
 Place 28 LF - 15' R.C.P., CI, III  
 @ 0.005 %  
 Top Grade = 8.37  
 Inv. 15' in = 3.86  
 out = 0.76

(23) \$ Sta. 15+61 - 14' RT  
 Place 26 LF - 15' R.C.P., CI, III  
 @ 0.005 %  
 Top Grade = 8.37  
 Inv. 15' in = 3.86  
 out = 0.76

(24) \$ Sta. 15+61 - 14' RT  
 Place 26 LF - 15' R.C.P., CI, III  
 @ 0.005 %  
 Top Grade = 4.00  
 Inv. 15' in = 0.50  
 out = 0.40 ±



NOTE:  
 60' Building Line by Agreement  
 dated July 21, 1927 from Canal  
 Bridge to Ocean Front

ETHEL C. DEAKYNE

PLAN - SAVANNAH ROAD

Dimensions shown  
 Crossarm dimensions to ground  
 shown.