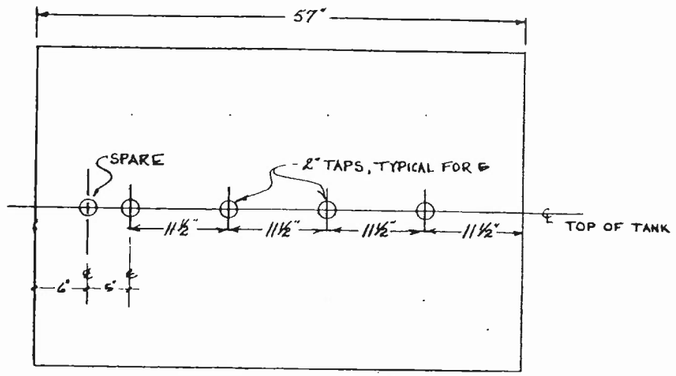
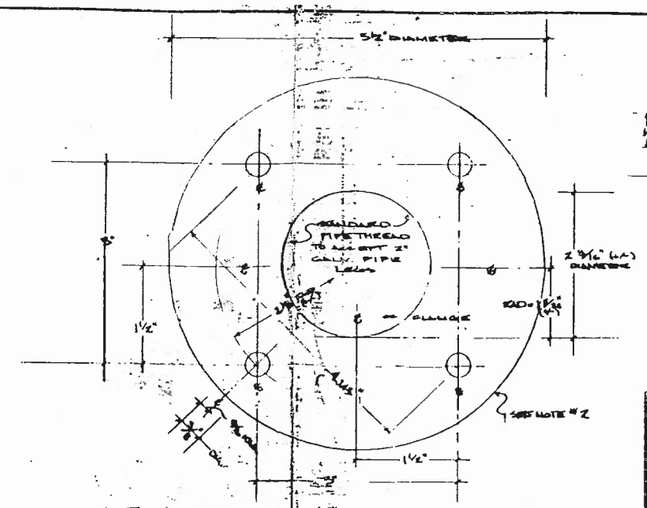
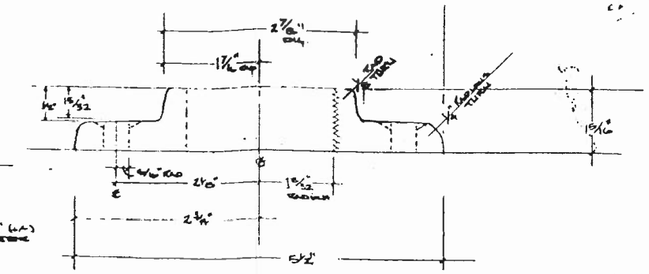


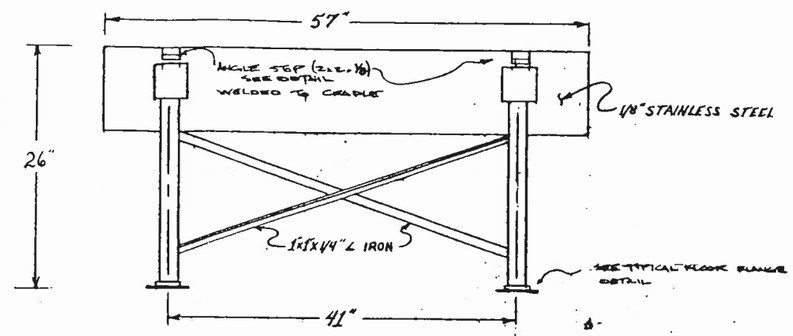
TOP VIEW



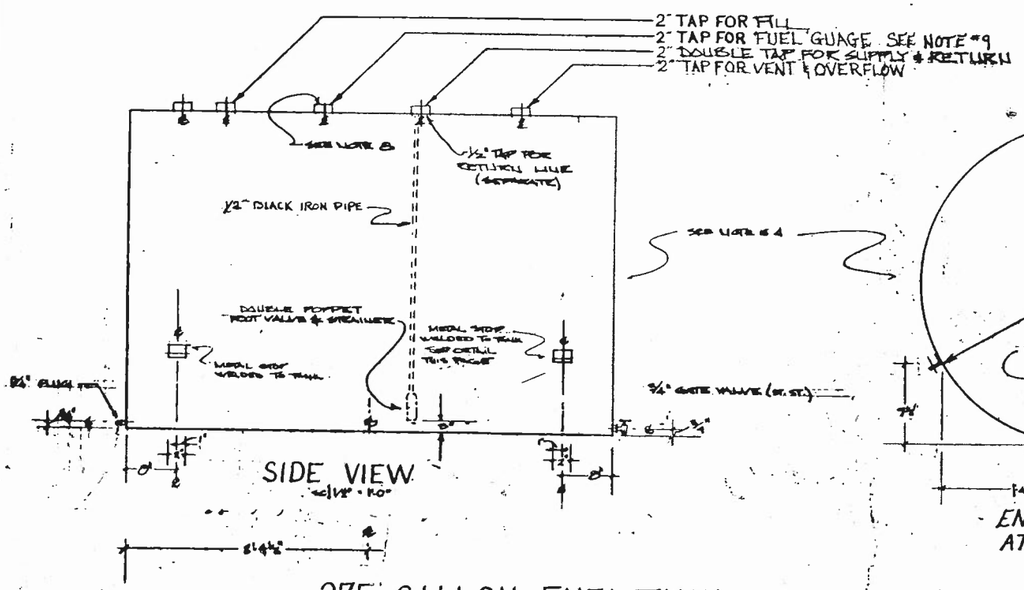
ACTUAL SIZE PLAN VIEW OF FLOOR FLANGE
DETAIL



ACTUAL SIZE ELEVATION OF FLOOR FLANGE

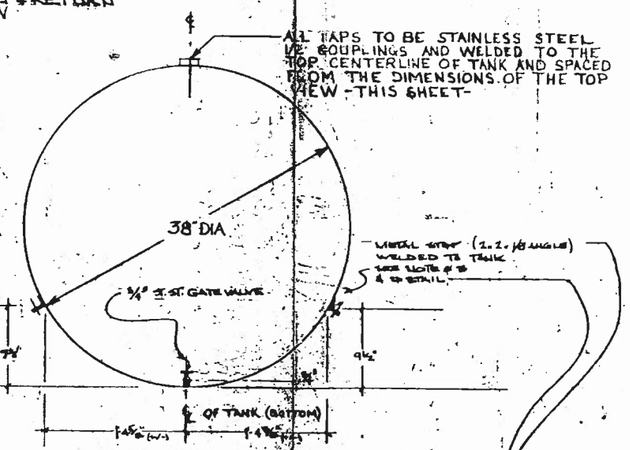


SIDE VIEW OF CRADLE
SC 1½" = 1'0"

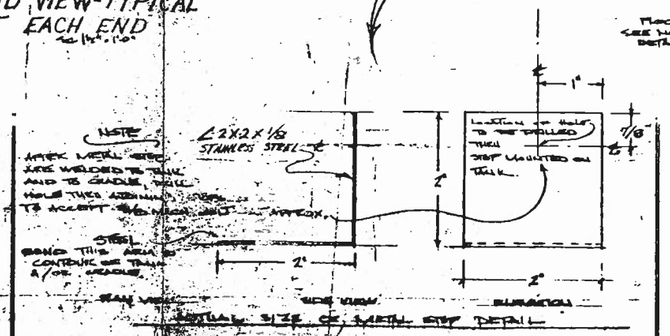


SIDE VIEW
SC 1½" = 1'0"

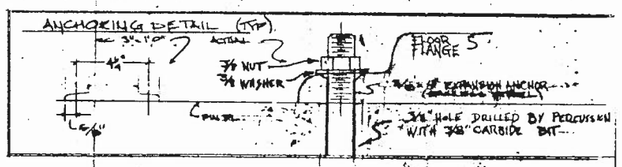
275 GALLON FUEL TANK

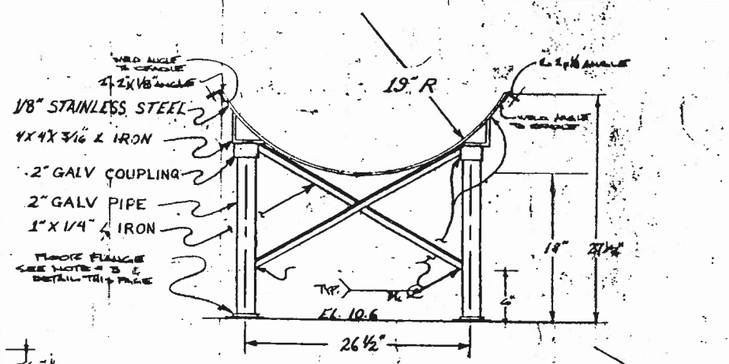


END VIEW-TYPICAL AT EACH END
SC 1½" = 1'0"



ACTUAL SIZE OF METAL STOP DETAIL



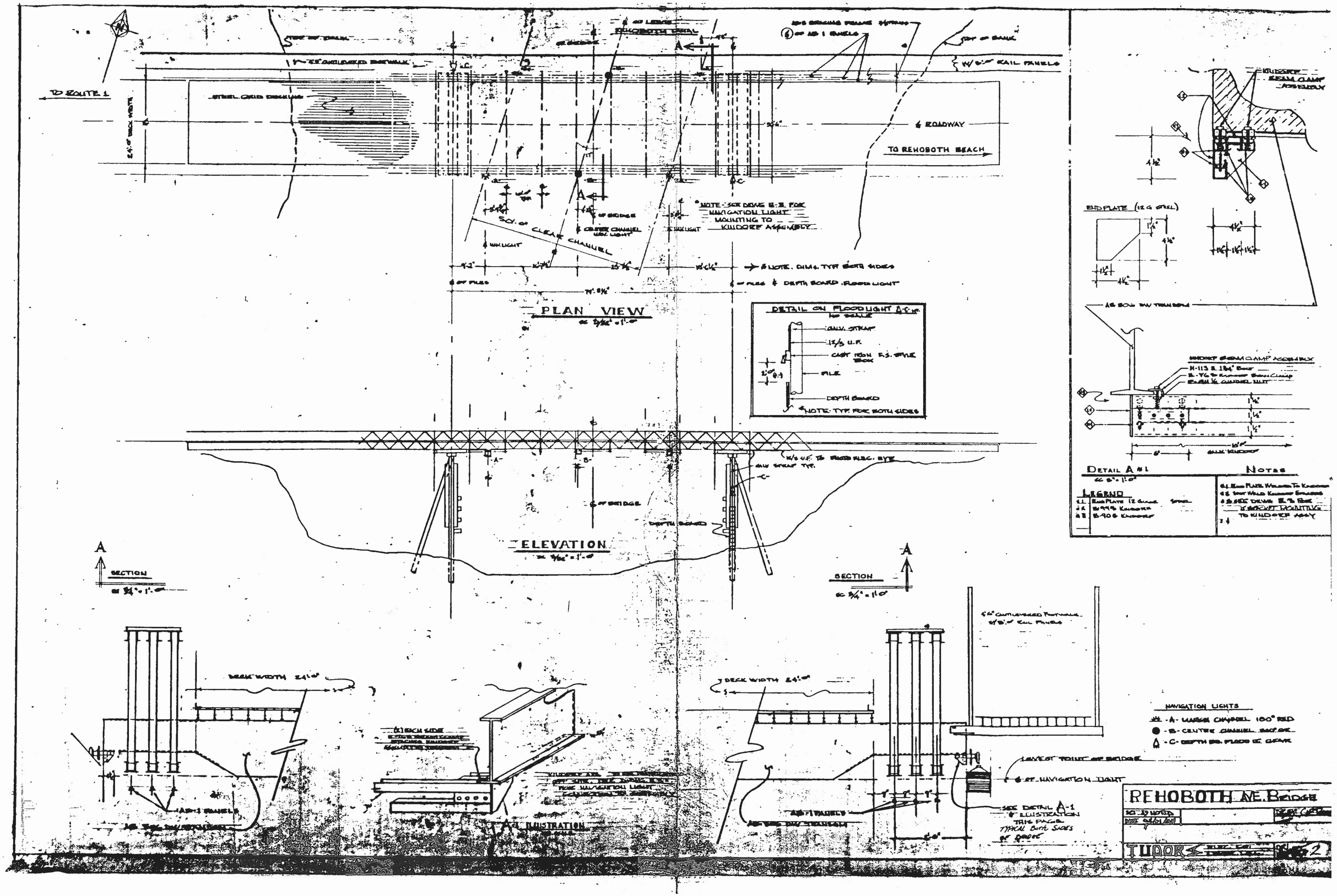


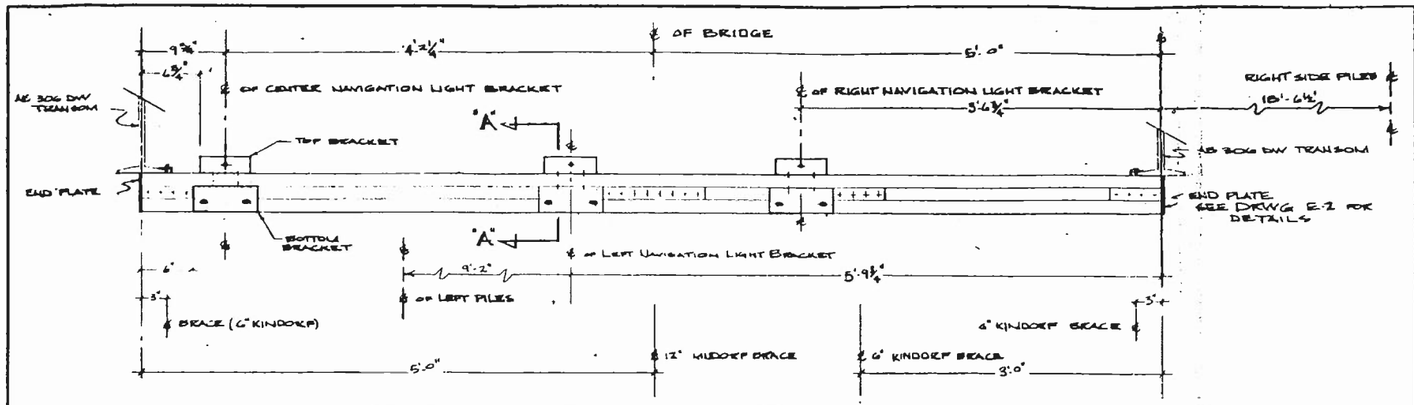
END VIEW OF TANK CRADLE
SC 1½" = 1'0"

* NOTE

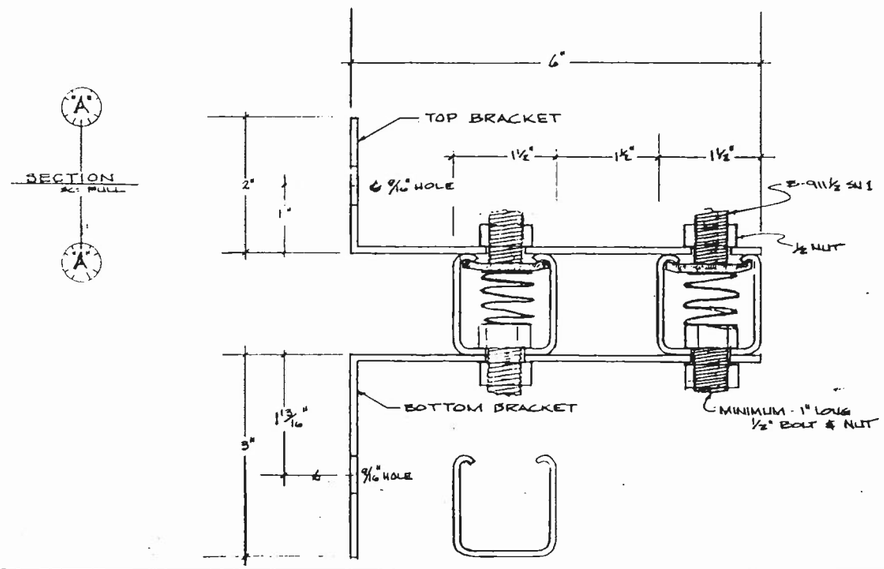
1. TANK SHALL BE FABRICATED OF 3/16 GAUGE 18-8 TYPE 304 L STAINLESS STEEL W/ CONTINUOUSLY WELDED JOINTS
2. FLANGE TO BE CAST IRON
3. STOPS TO BE STAINLESS STEEL
4. STAINLESS STEEL - ASTM 276 TYPE 304 L
5. STEEL - ASTM A 36
6. PIPE ASTM A 53 GRADE B
7. PAINT - INORGANIC ZINC & VINYL TOP COAT SEE SEC 606
8. 2" TAP FOR 2-½" FUEL LINES (SUPPLY & RETURN) INSTALLATION OF ½ FUEL LINES INTO TANK SHALL BE MADE WITH A 2" BUSHING, DOUBLE TAPPED (BOTH TOP & BOTTOM) ½" STANDARD PIPE THREADS. SUPPLY LINE WILL BE CUT & THREADED TO PROPER LENGTH APPROX. 3⅛ INCHES, THEN INSTALLED BY SCREWING INTO ONE OF THE ½" TAPPED HOLES ON THE BOTTOM OF THE 2" BUSHING BEFORE INSTALLING BUSHING IN TANK. RETURN LINE WILL BE FLUSH WITH THE BOTTOM OF BUSHING.
9. INSTALLATION & EQUIPMENT DETAIL ARE FORTH COMING ON SHOP DRAWINGS FOR FUEL GUAGE

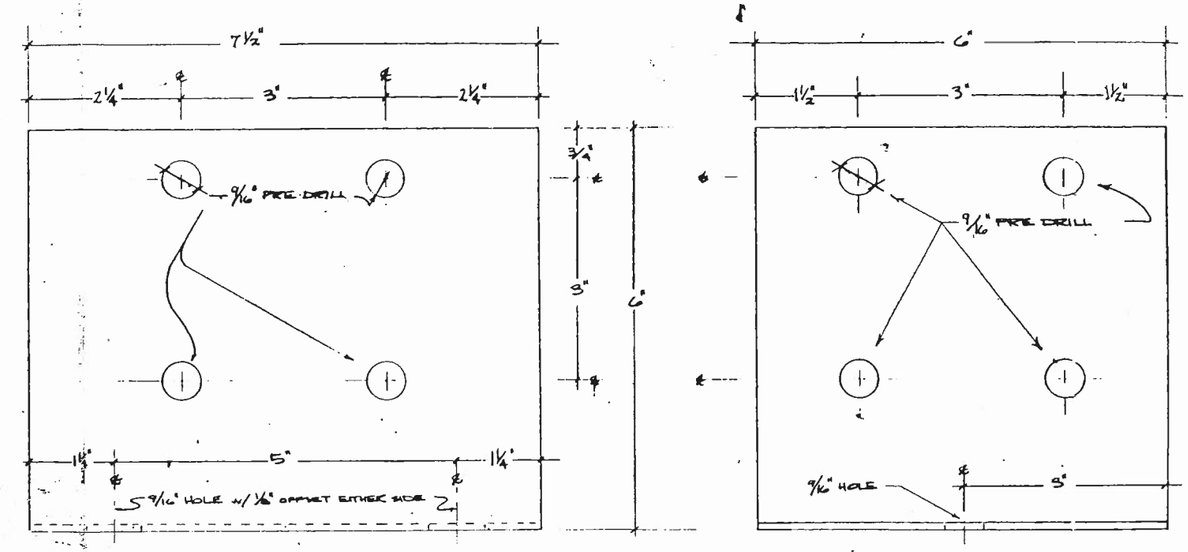
REHOBOTH BEACH BRIDGE	
SCALE: 1/8" = 1'0"	APPROVED BY
DATE: 1/25/65	DRAWN BY Zielly
275 GALLON TANK & CRADLE	
TUDOR ELECTRIC	DRAWING NUMBER E-1


TO ROUTE 1
STEEL GRID DECKING
ROADWAY
TO REHOBOTH BEACH
50'-0" CLEAR CHANNEL
PLAN VIEW
DETAIL ON FLOODLIGHT
NO SCALE
CAST IRON F.S. STYLE BOX
FILE
DEPTH BOARD
NOTE: TYP. FOR BOTH SIDES
ELEVATION
SECTION
DECK WIDTH 24'-0"
ILLUSTRATION
NAVIGATION LIGHTS
A - MARGIN CHANNEL 180° RED
B - CENTER CHANNEL
C - DEPTH BD. FLOOD LIGHT
SEE DETAIL A-1 & ILLUSTRATION THIS PAGE TYPICAL BOTH SIDES OF BRIDGE
REHOBOTH AVE. BRIDGE
TUDOR
END PLATE (12 G STEEL)
DETAIL A #1
NOTES
LEGEND

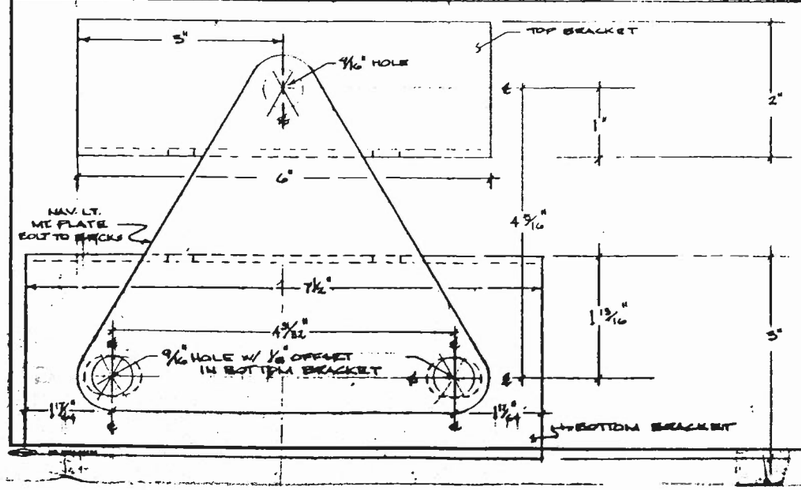


ELEVATION OF TYP. KINDORF ASSEMBLY SHOWING (L), (C) & (R) LIGHT BRACKETS
SCALE 1 1/2" = 1'-0"





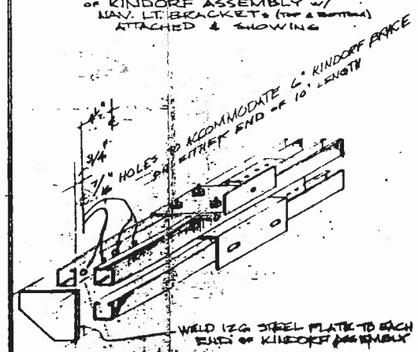
BRACKET PLAN VIEW
SCALE FULL



BRACKET ELEVATION
SCALE FULL
SHOWING NAV. LT. MOUNTING PLATE

ILLUSTRATION

OF KINDORF ASSEMBLY w/ NAV. LT. BRACKETS (TOP & BOTTOM) ATTACHED & SHOWING



NOTES

REHOBOTH AVE. BRIDGE
REHOBOTH BEACH, DEL.

SCALE: 1/4 NOTED	APPROVED BY	DRAWN BY CARP
DATE: 7/10/84		

KINDORF ASSEMBLY SHOWING NAV LT BRACKETS & BRACKET PLACEMENT

TUDOR ELEC. CO. DOVER, DEL.

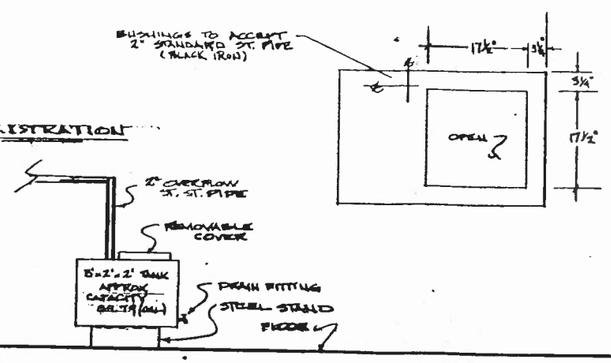
DRAWING NUMBER E-3

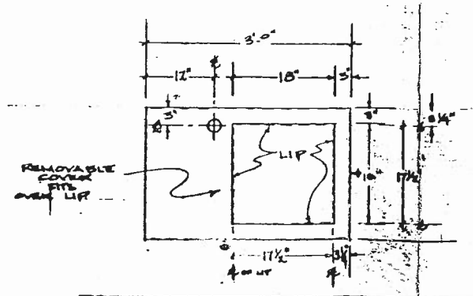
OVERFLOW TANK

SCL 1" = 1'-0"

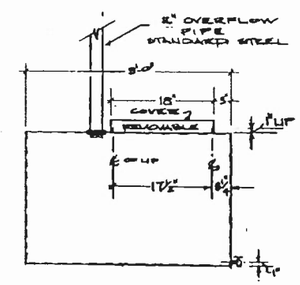
(MADE OF 12 GAUGE STANDARD STEEL)

TANK TO BE PAINTED AS PER REQ. SECTION 806 OF SPECIFICATIONS

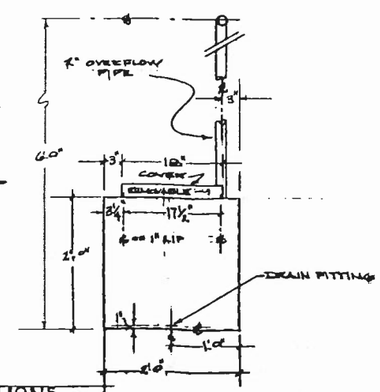




PLAN VIEW OF OVERFLOW TANK



FRONT (WEST)



ELEVATIONS

SIDE

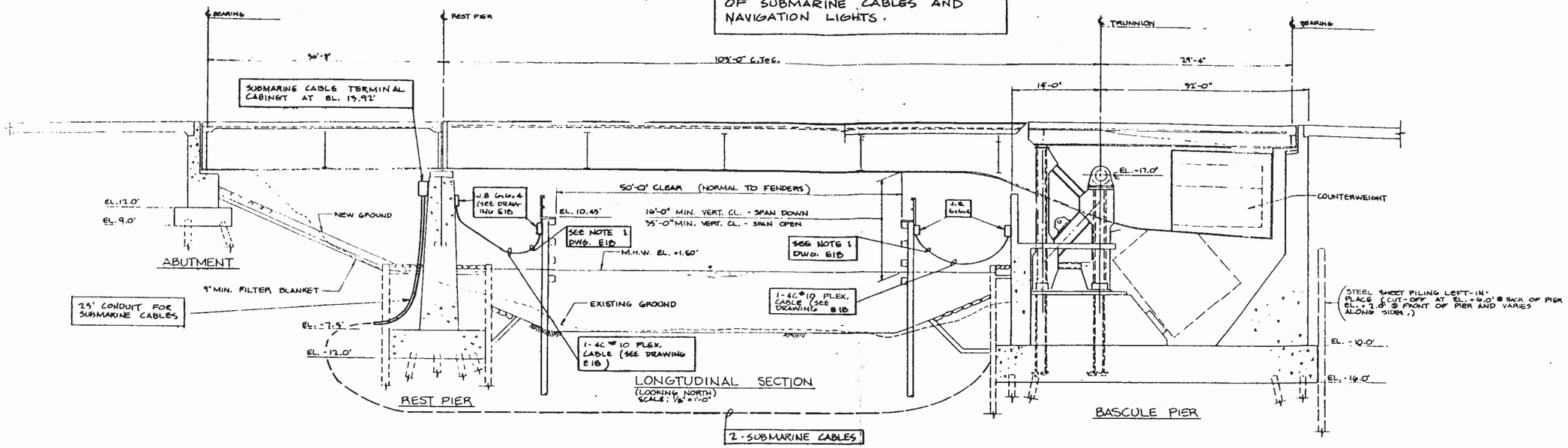
REHOBOTH AVE. BRIDGE
REHOBOTH BEACH, DEL.

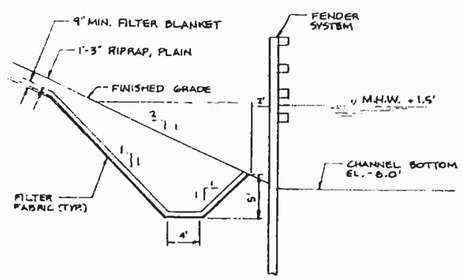
SCALE: 1/2" = 1'-0"
DATE: 8/1/83
APPROVED BY
DRAWN BY

TUDOR ELEC. CO. DOVER, DEL.

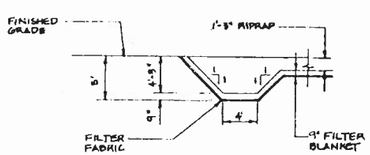
DRAWING NUMBER E4

USE DRAWING FOR INSTALLATION OF SUBMARINE CABLES AND NAVIGATION LIGHTS.



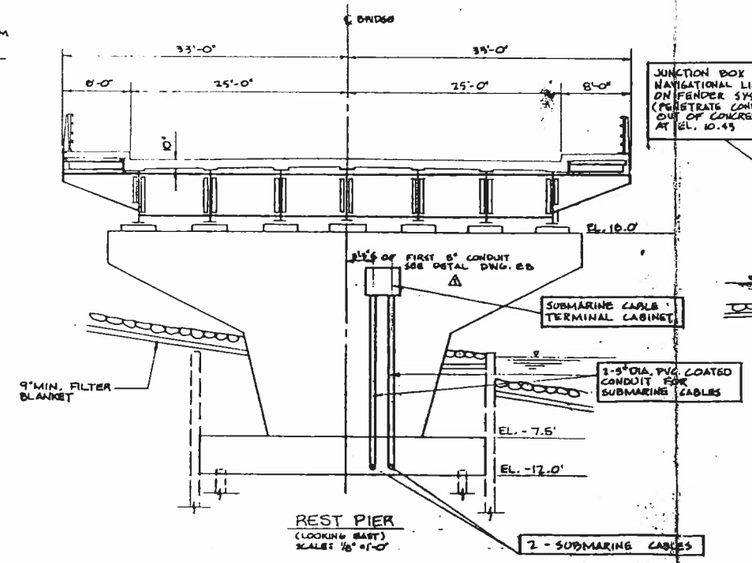


RIPRAP BLANKET & TOE DETAIL
SCALE: 1/8" = 1'-0"



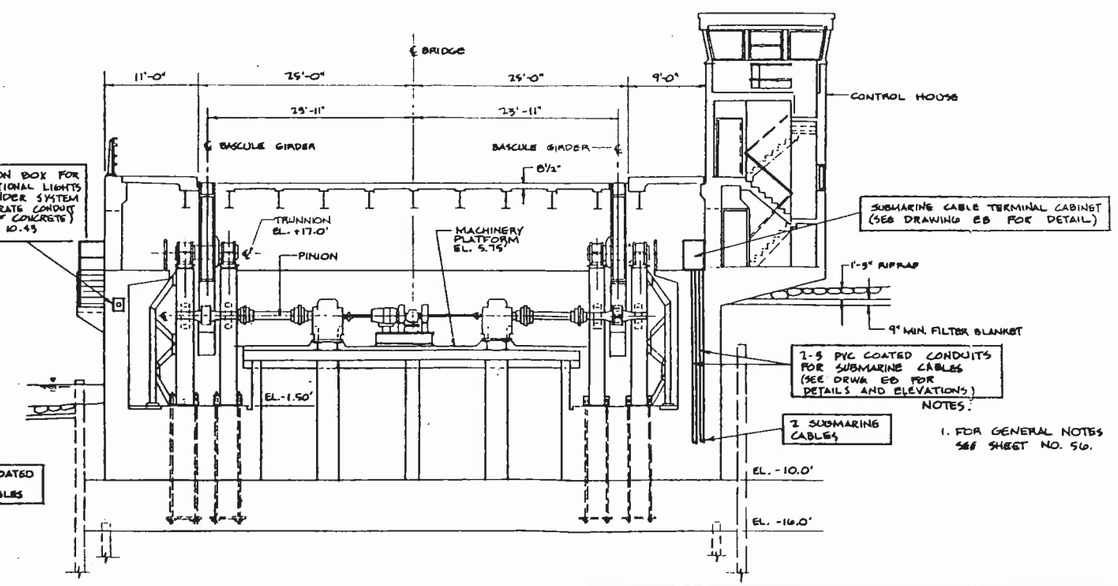
DETAIL OF CUTOFF AT EDGES OF RIPRAP BLANKET
NO SCALE

NOTE:
RIPRAP WITH BE ROADWAY ITEM.



REST PIER
(LOOKING EAST)
SCALE: 1/8" = 1'-0"

JUNCTION BOX FOR NAVIGATIONAL LIGHTS ON FENDER SYSTEM (PENETRATE CONDUIT OUT OF CONCRETE) AT EL. 10.45



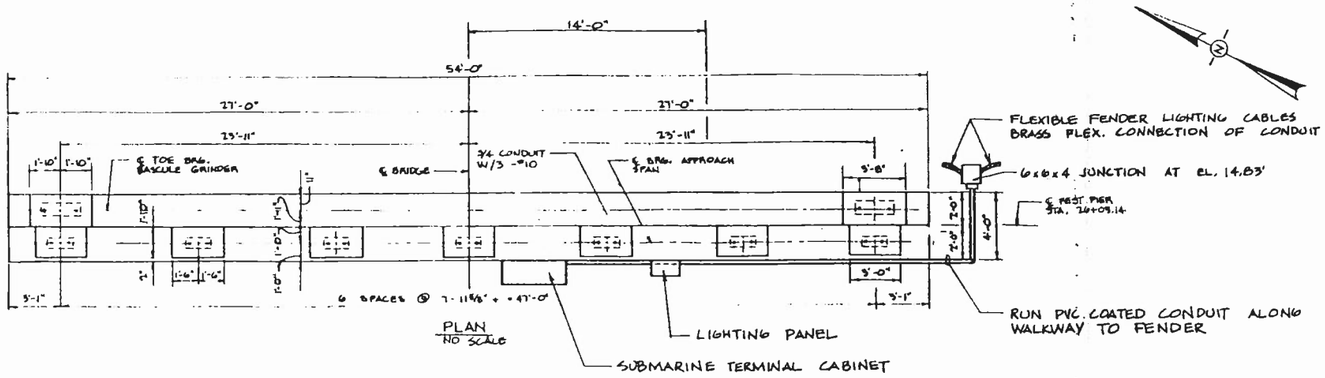
TRANSVERSE SECTION
(LOOKING EAST)
SCALE: 1/8" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE SHEET NO. S6.

MEMBER I.A.O
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

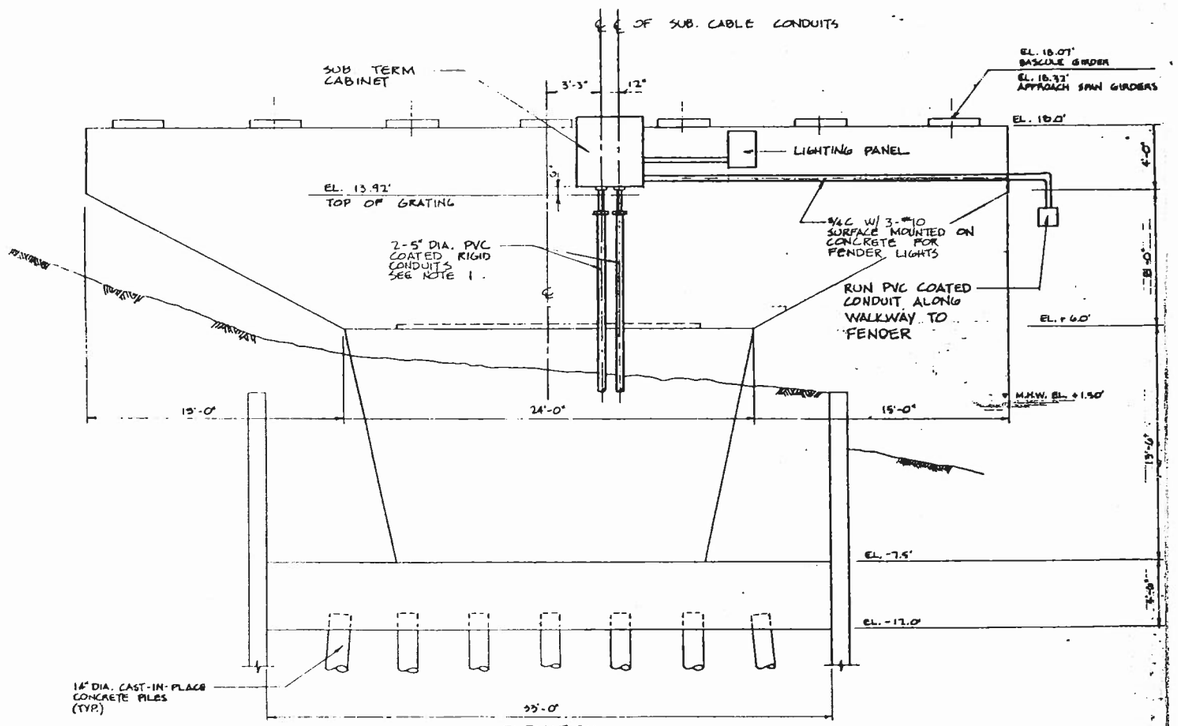
REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE	
	DRAWN BY: JEL	TITLE TYPICAL BRIDGE SECTIONS AND RIPRAP DETAILS
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS
1 - 6/20/85	DATE 3/10/85	DRAWING NO. E5



PLAN
NO SCALE

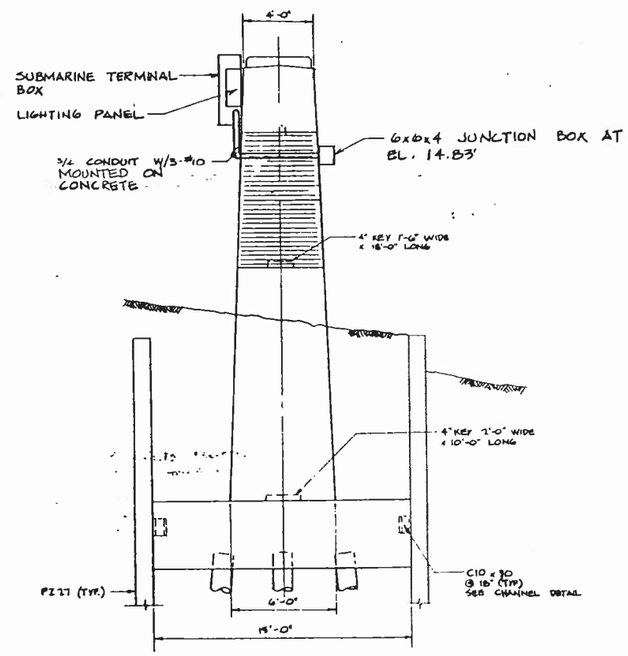
NOTES:

1. FOR INSTALLATION OF SUBMARINE CABLES, CONDUITS AND TERMINAL CABINET, REFER TO DRAWINGS E5, E8, E16 AND E18.
2. ALL CONDUITS EXPOSED TO OUTDOOR ENVIROMENT SHALL BE RIGID GALV. CONDUIT WITH PVC COATED JACKET WITH COVERING.



ELEVATION
NO SCALE

AS LOOKING EAST
FROM WEST ABUTMENT



END VIEW
NO SCALE

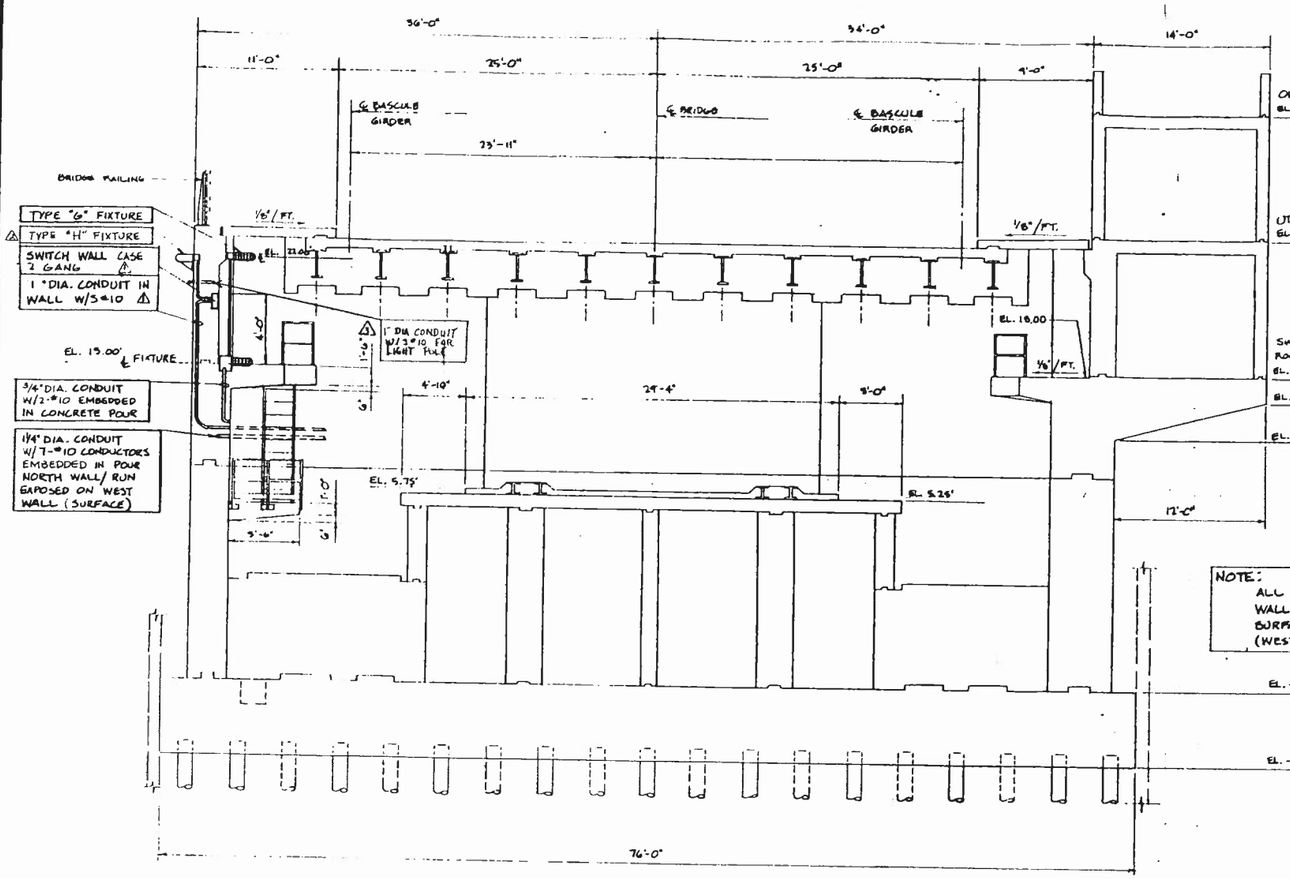
Tudor Electric
Approval Sheet
Job Rehoboth Ave Br. dgc
Date 10/9/86
Item Fender Lighting Cond. at Rest Pier

MEMBER E C A O
Residential
Commercial
Industrial

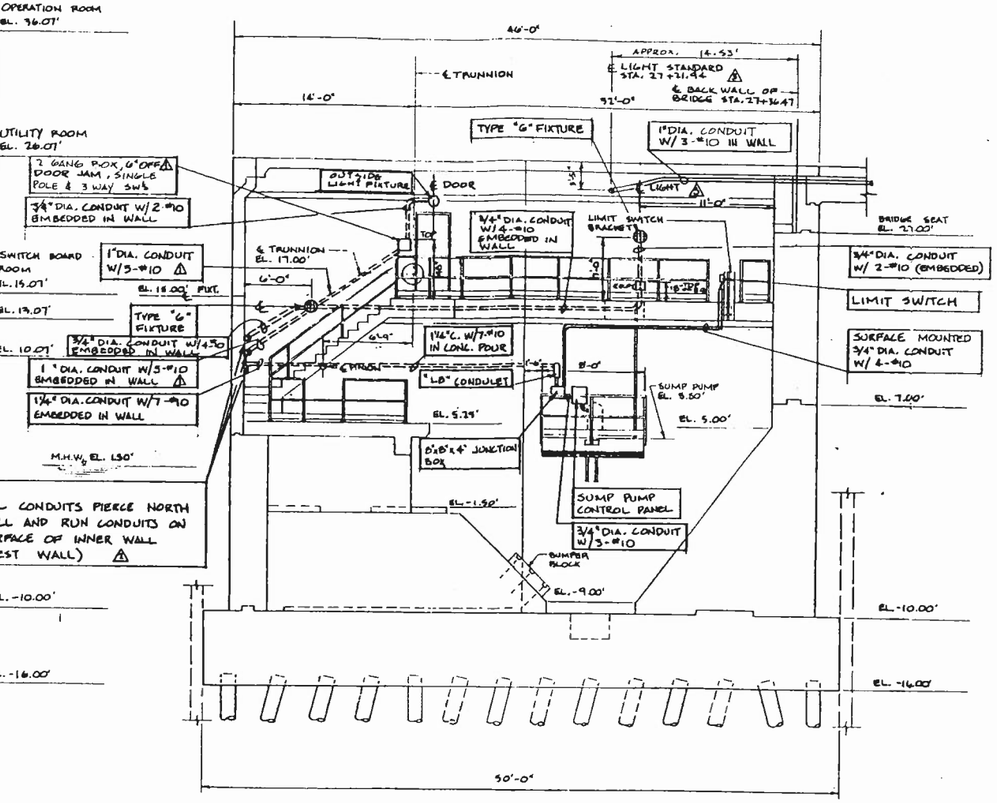
TUDOR ELECTRIC, Inc.
Electrical Contractor

1068 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE FENDER LIGHTING CONDUIT AT REST PIER	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAY	DRAWING NO. E6
	DATE 3/9/86		

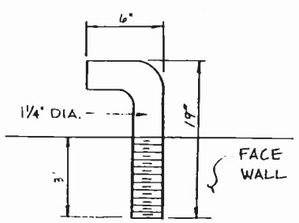


LONGITUDINAL SECTION
NO SCALE

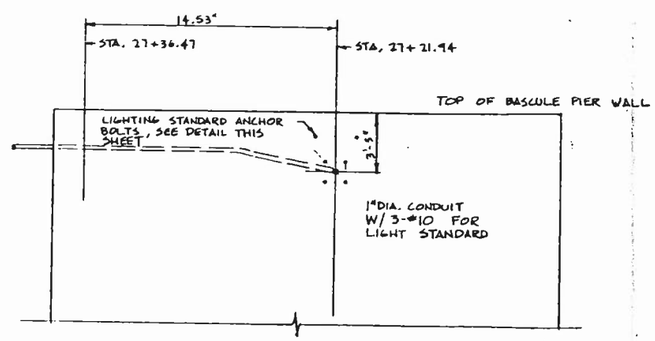


TRANSVERSE SECTION
NO SCALE

NOTE:
FOR VIEW OF LIGHTING ON SOUTH GALLERY WALL REVERSE AND DELETE 1 1/2" DIA. CONDUIT FOR SUMP PUMP AND LIMIT SWITCH

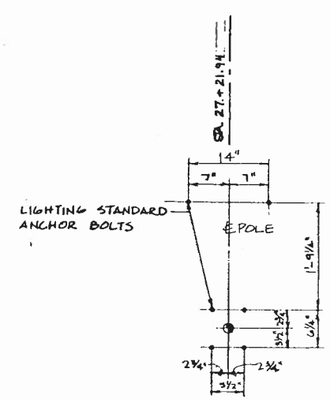


1 1/4" STN. STL. ANCHOR BOLT DETAIL
NO SCALE
3



SECTION OF NORTH BASCULE WALL AS IF LOOKING SOUTH
NO SCALE
3

WORK THIS DRWG WITH E-50



ANCHOR BOLT DETAIL FOR LIGHTING STANDARD
NO SCALE
3

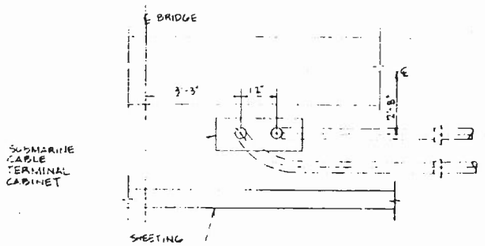
Tudor Electric
Approved Sheet
Job: Lewes Bridges
Date: 11/18/85
Item: Bascule Pier Longitudinal & Transverse Sections

MEMBER E.C.A.D.
Residential Commercial Industrial

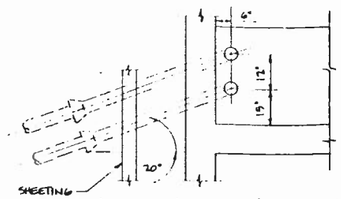
TUDOR ELECTRIC, Inc.
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT		
3 10/17/85 INCREASE CONDUIT SIZE	REHOBOTH AVENUE BRIDGE		
2 11/9/85	DRAWN BY: JEL	TITLE BASCULE PIER LONGITUDINAL AND TRANSVERSE SECTIONS	
1 11/18/85	SCALE NONE	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E7
	DATE 3/11/85		

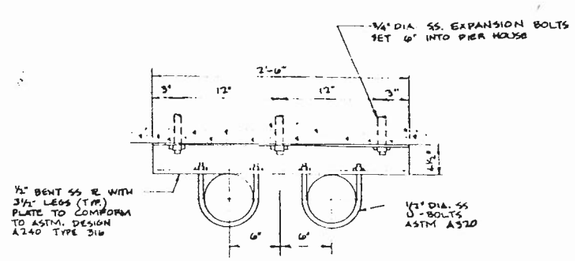


PLAN



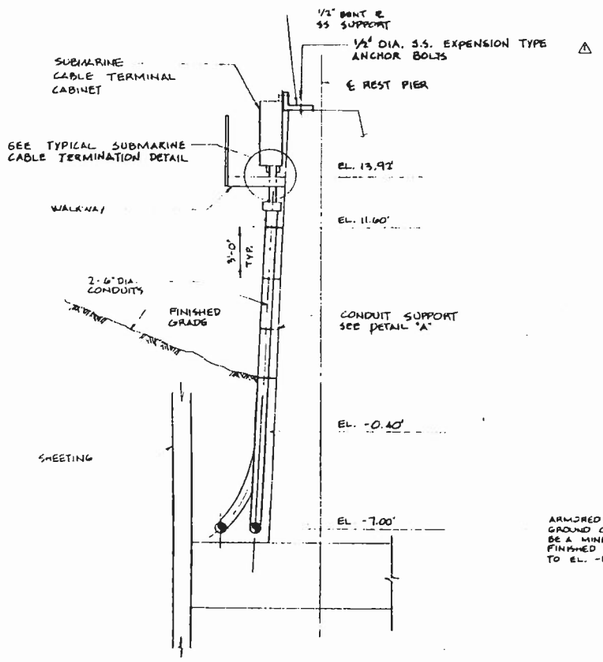
ELEVATION 15.07' AT CONTROL HOUSE

PLAN

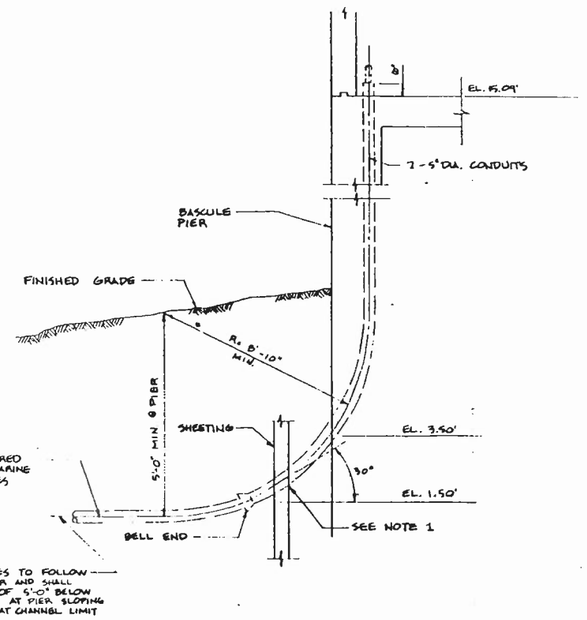


NOTE:
ONE BRACKET REQ'D EVERY 3'-0"

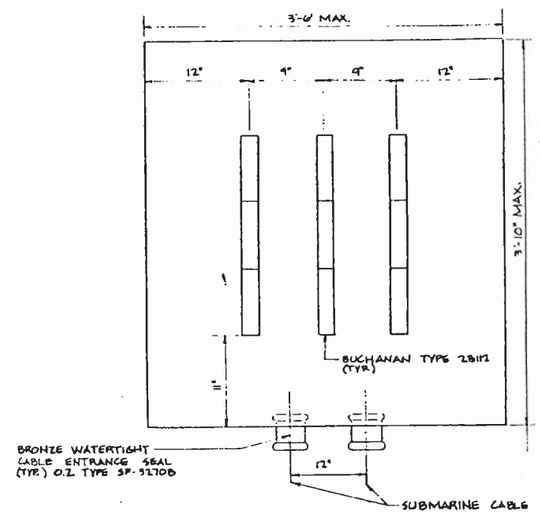
DETAIL "A" CONDUIT SUPPORT
NO SCALE



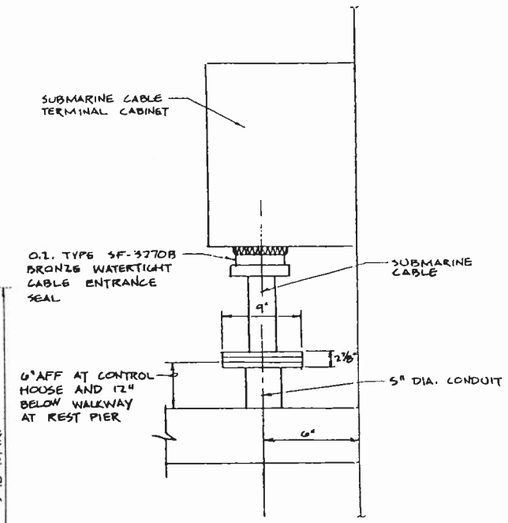
ELEVATION AT REST PIER



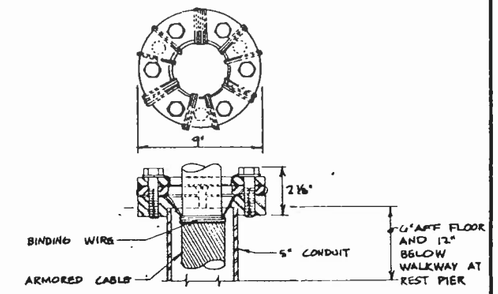
ELEVATION AT CONTROL HOUSE



SUBMARINE CABLE TERMINAL CABINET
NO SCALE / SEE CATALOG CUT SHEET FOR DETAILS



⚠ TYPICAL SUBMARINE CABLE TERMINATION DETAIL
NO SCALE



⚠ CABLE SUPPORT DETAIL
NO SCALE

SUBMARINE CABLE & CONDUIT DETAILS
NO SCALE

NOTE:

1. WHERE SUBMARINE CABLE CONDUIT PASSES THROUGH SHEET PILING, APPROPRIATE SIZE HOLE SHALL BE CUT IN SHEETING.

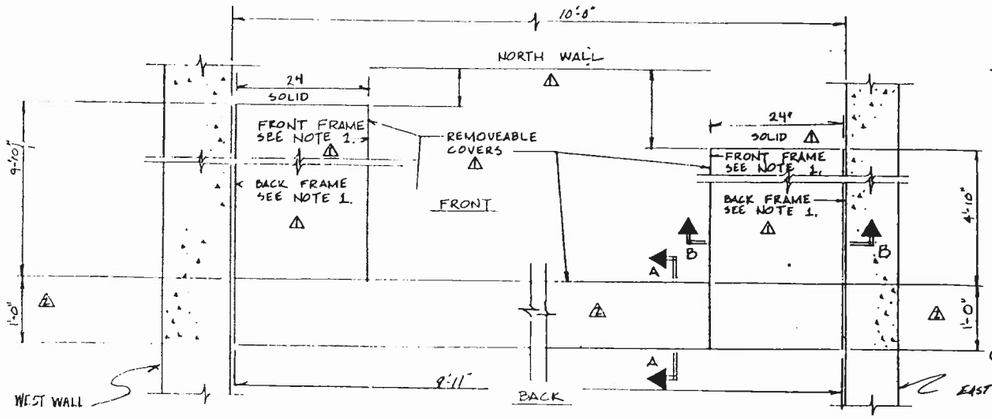
Tudor Electric
Approval Sheet
Job Rehoboth Ave. Bridge
Date 10/16/85
Item Sub. Cable Details

MEMBER E.C.A.D.
Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

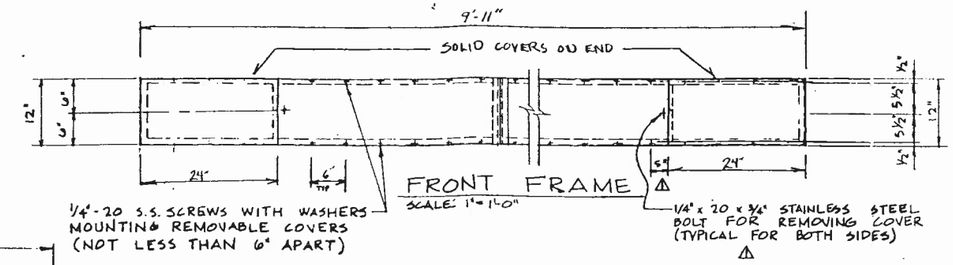
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JGL	TITLE: SUBMARINE CABLE DETAILS	
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E6
⚠ - 6/28/85	DATE: 5/11/85		

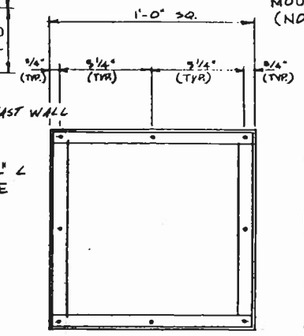


PLAN VIEW UPPER TROUGH
SCALE: 1" = 1'-0"

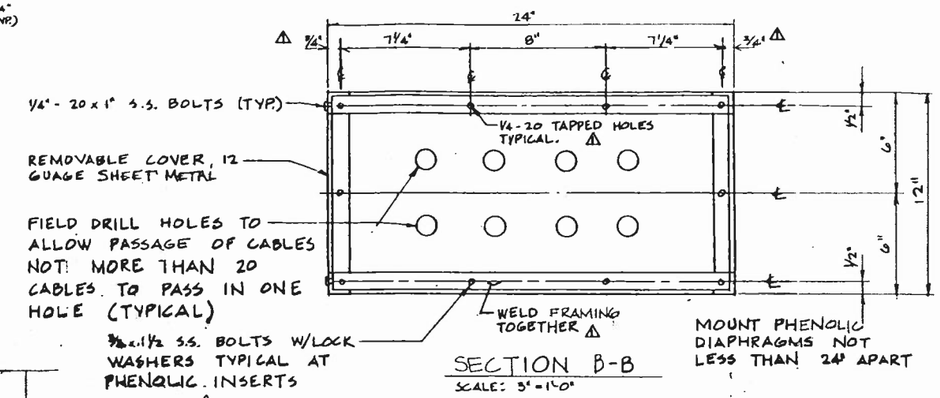
NOTE:
1. USE 1¼" x 1¼" x ¼" ∠ FOR ALL FRAME CONSTRUCTION.



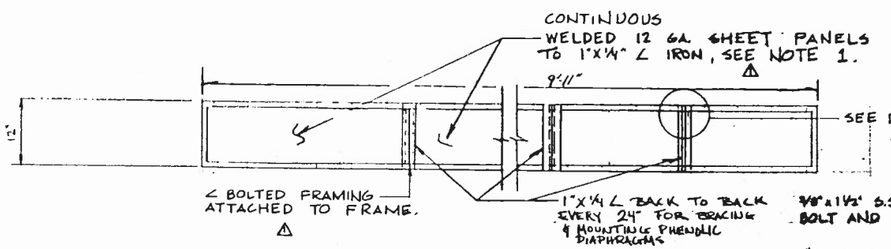
FRONT FRAME
SCALE: 1" = 1'-0"



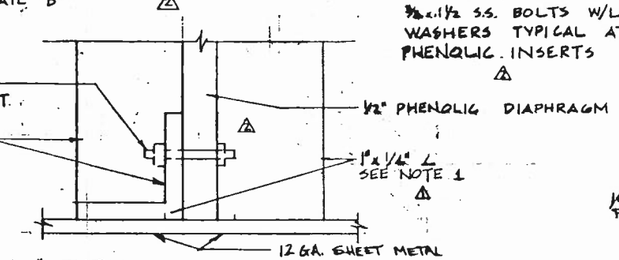
SECTION A-A
SCALE: 3" = 1'-0"



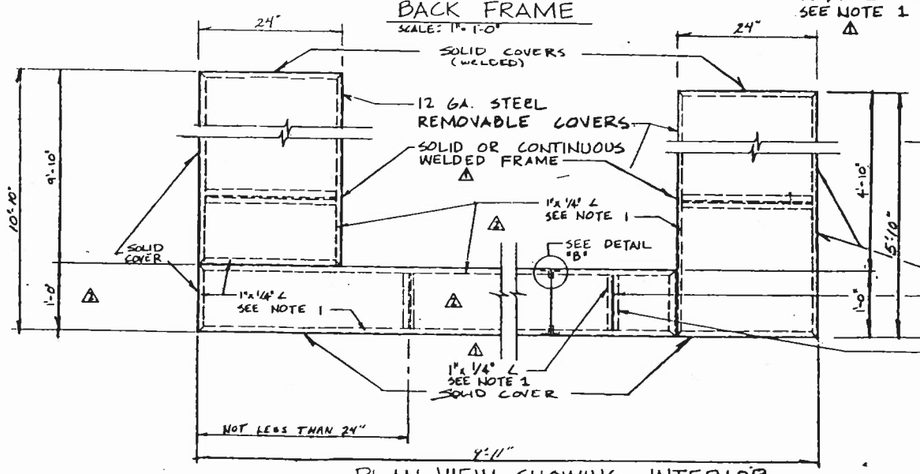
SECTION B-B
SCALE: 3" = 1'-0"



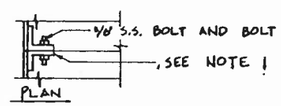
BACK FRAME
SCALE: 1" = 1'-0"

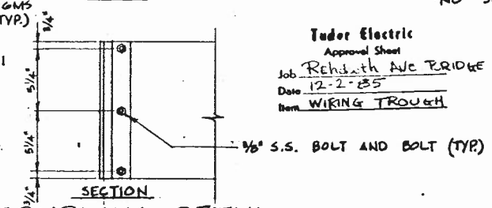


½" PHENOLIC DIAPHRAGM DETAIL
DETAIL "B"
NO SCALE

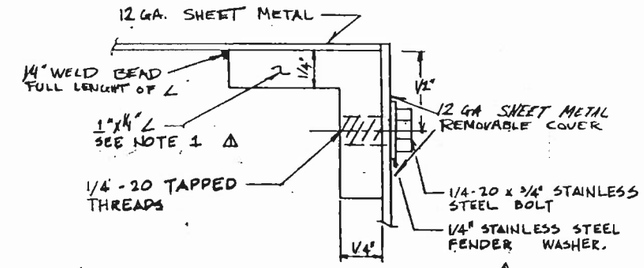


PLAN VIEW SHOWING INTERIOR
SCALE: 1" = 1'-0"





COUPLING DETAIL
NO SCALE



TYPICAL CORNER DETAIL
NO SCALE

Tudor Electric
Approval Sheet
Job Rehoboth Ave BRIDGE
Date 12-2-85
Item WIRING TROUGH

PAINTING:

AFTER PRIMER HAS BEEN APPLIED, THE INSIDE OF THE TROUGH SHALL BE PAINTED WITH ONE COAT OF GRAY ENAMEL AND TWO COATS OF GRAY ENAMEL ON THE OUTSIDE, PAINT SHALL BE ANSI. 61 LIGHT GRAY ENAMEL

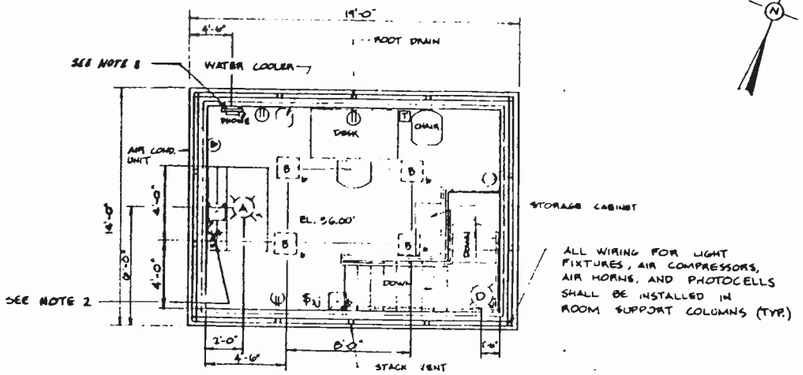
NOTE:

ALL SHEET METAL USED IN THE CONSTRUCTION OF THE WIRING TROUGH SHALL BE 12 GA. STEEL. AFTER FABRICATION, ALL WELDS ARE BE GRINDED FLUSH & SMOOTH, THEN PAINT ALL METAL PARTS WITH ONE COAT OF PRIMER

MEMBER N.E.C.A.D.
Residential Commercial Industrial

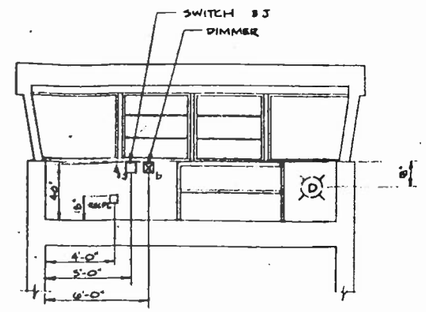
TUDOR ELECTRIC, Inc.
Electrical Contractors
1068 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT		
1/10/86	REHOBOTH AVENUE BRIDGE		
3/25/86	DRAWN BY: JEL	TITLE UPPER TROUGH	
	SCALE AS SHOWN		
	DATE 11/2/85	OWNER STATE OF DELAWARE DEPT. OF TRAN DIVISION OF HIGHWAYS	DRAWING NO. E9

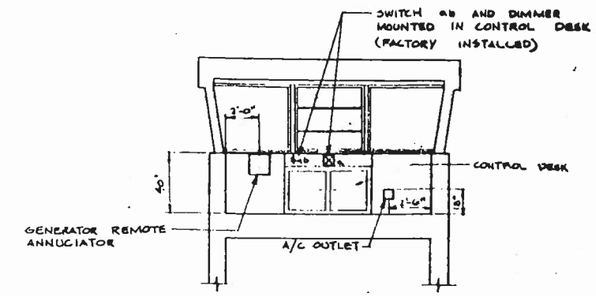


PLAN - OPERATOR'S ROOM
SCALE: 1/4" = 1'-0"

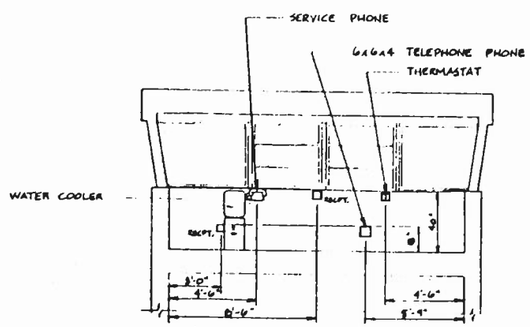
NOTES.
1. ALL SWITCHES TO BE 40" ABOVE FINISH FLOOR.
2. DIMMER SWITCH AND SINGLE POLE SWITCH ARE MOUNTED IN CONTROL DESK CONSOLE. (⊠a & ⊠b)
3. SERVICE PHONE IS TO BE MOUNTED 40" ABOVE FINISHED FLOOR
4. SEE DRWG E C2 FOR RECPT DIMENSIONS
5. SEE DRWG E6E FOR CONDUIT RISER DIAGRAM



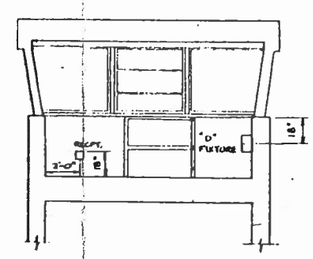
SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



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



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



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

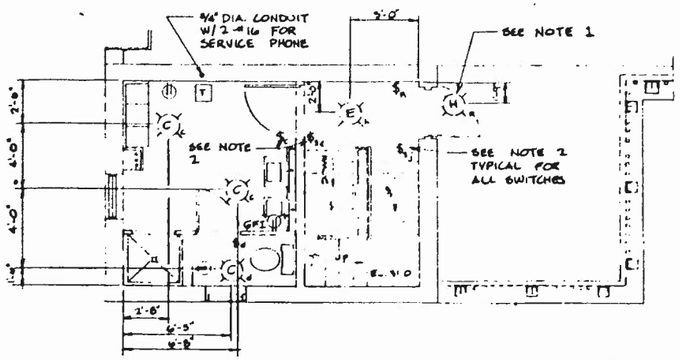
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 11/14/85
Item Conduit Layout - Operator's Room

MEMBER I.A.E.I.

TUDOR ELECTRIC, Inc.
Electrical Contractors

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

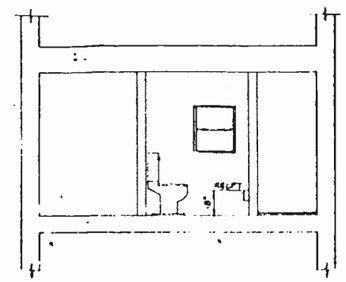
REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
11/14/85 ADDED SWITCH & DIMM AND MISC EQUIP on WALL ELEVATIONS	DRAWN BY: JBL	TITLE RECPT. CONDUIT LAYOUT FOR OPERATOR'S ROOM	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E10
	DATE 11/5/85		



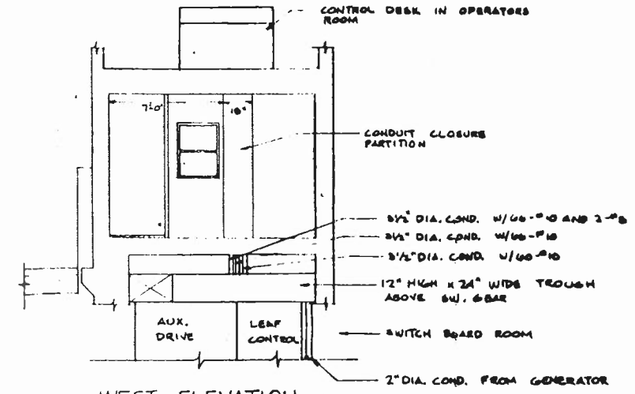
PLAN - UTILITY ROOM
SCALE: 1/4" = 1'-0"

NOTES:

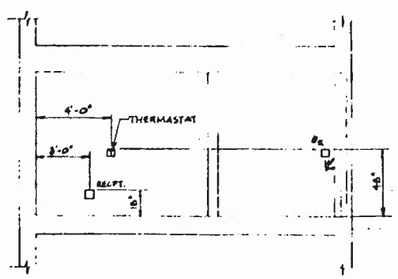
1. MOUNT LIGHT FIXTURE "H" 9" OVER DOOR JAM.
2. MOUNT ALL SWITHES 6" OFF DOOR JAM AND 48" A.F.F.
3. SEE DRWG E 66 FOR CONDUIT RISER DIAGRAM



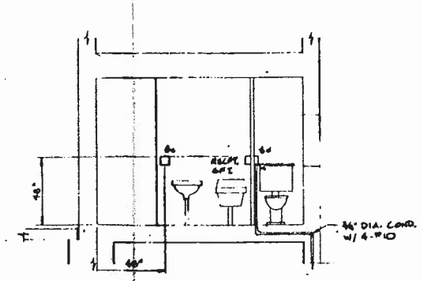
SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



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



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



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

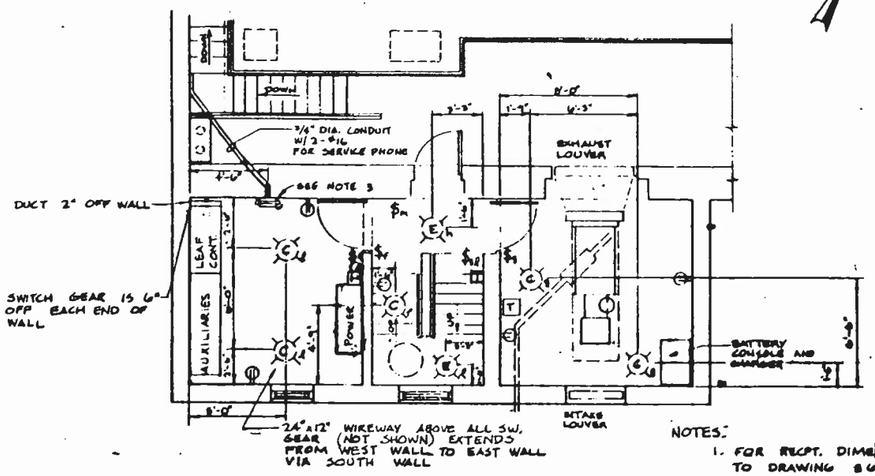
Tudor Electric
Approval Stamp
Job Rehoboth Ave Bridge
Date 11/14/85
Conduit Layout - Utility Room

MEMBER N.E.C.A.
Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

1066 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
11/14/85 ADDED SW. RECPT & MISC EQUIP ON WALL ELEVATIONS	DRAWN BY: JBL	TITLE CONDUIT LAYOUT FOR UTILITY ROOM	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E11
	DATE 11/5/85		

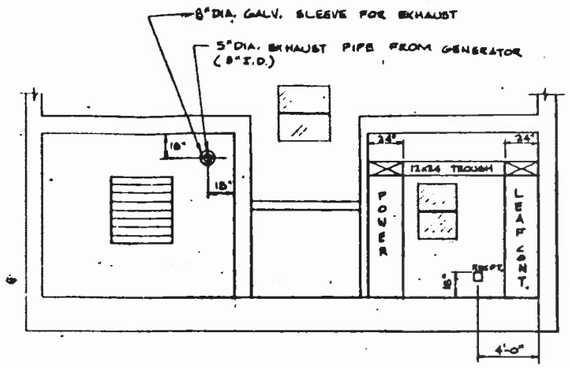


PLAN - SWITCHBOARD AND ENGINE ROOM

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

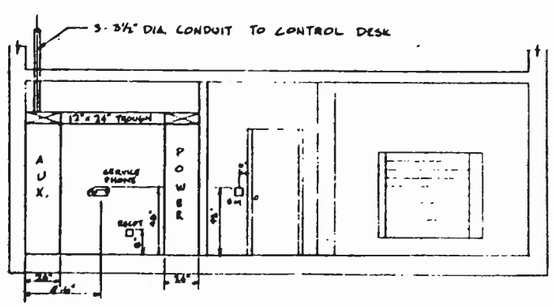
NOTES:

1. FOR RECPT. DIMENSION REFER TO DRAWING E-C2.
2. ALL SWITCHES TO BE 6" OFF DOOR JAM AND 48" ABOVE FINISHED FLOOR.
3. MOUNT SERVICE PHONE 48" A.F.F.
4. SEE DRWG E-C2 & C6 FOR CONDUIT RISERS



SOUTH ELEVATION

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



NORTH ELEVATION

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

Tudor Electric
Approval Sheet
Job Rehoboth Ave. Bridge
Date 11/9/85
Item Conduit Layout - Switchboard & Engine Room

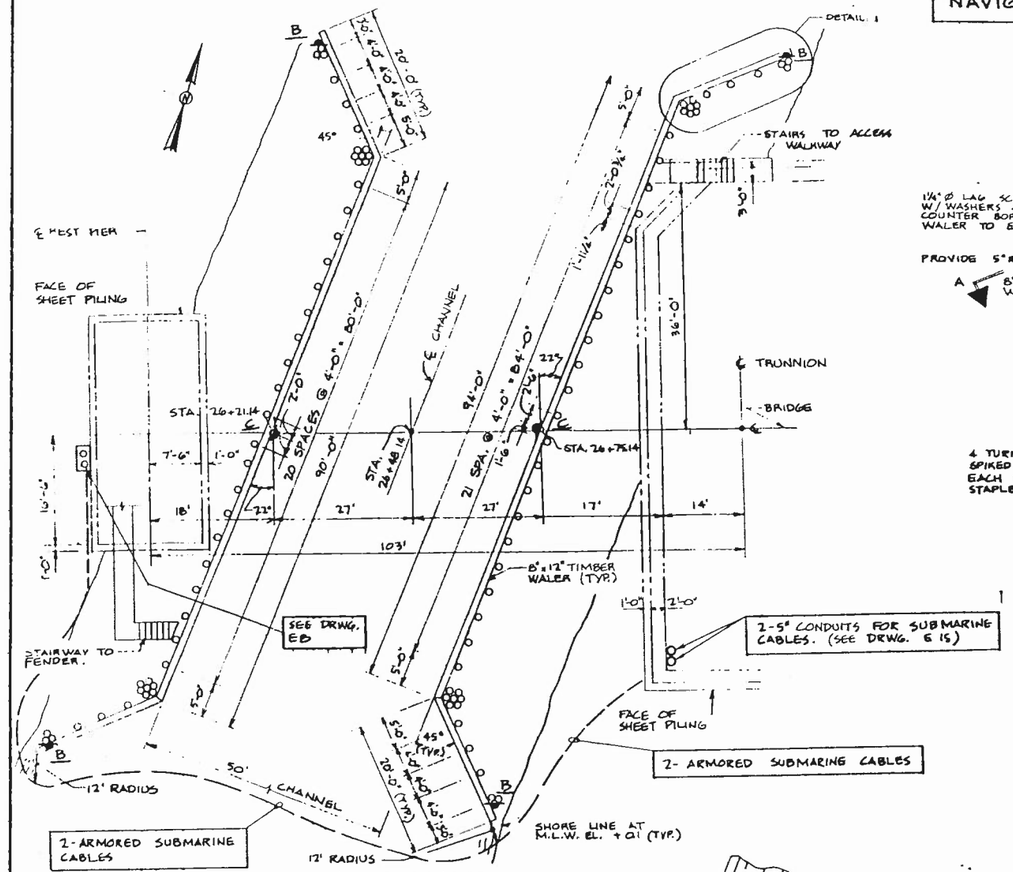
MEMBER N.E.C.A.

TUDOR ELECTRIC, Inc.
Electrical Contractors

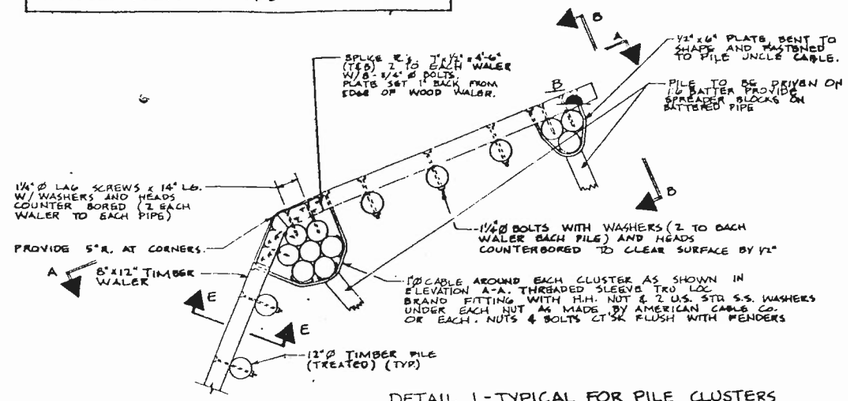
1006 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE	
11/11/85 - ADDED SW. GEAR & ENGINE ROOM ELEVATION	DRAWN BY: JEL	TITLE: CONDUIT LAYOUT FOR SWITCHBOARD & ENGINE ROOM
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF PROJECTS
	DATE: 11/5/85	DRAWING NO. E-C2

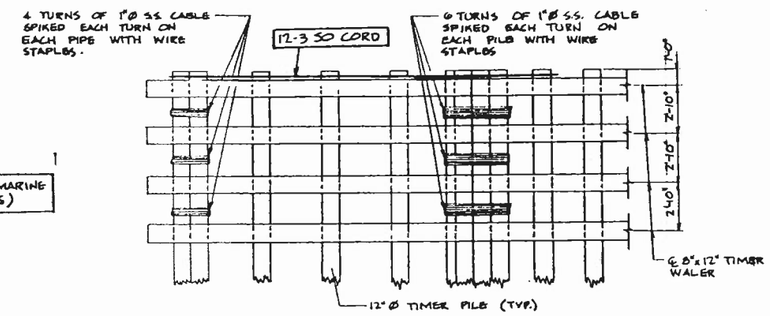
USE DRAWING FOR INSTALLATION OF SUBMARINE CABLES AND NAVIGATION LIGHTS



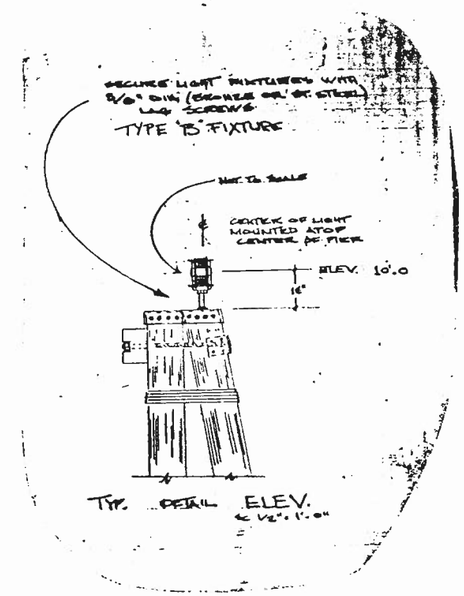
PLAN OF FENDER
SCALE: 1"=10'

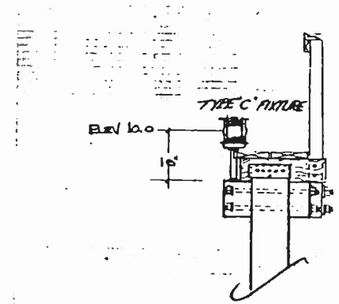


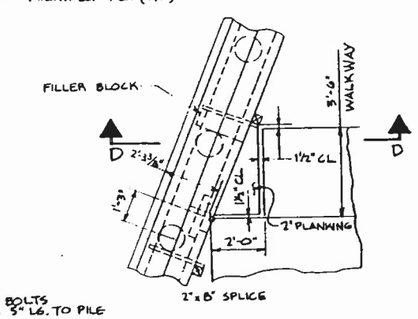
DETAIL 1 - TYPICAL FOR PILE CLUSTERS
SCALE: ½" = 1'-0"



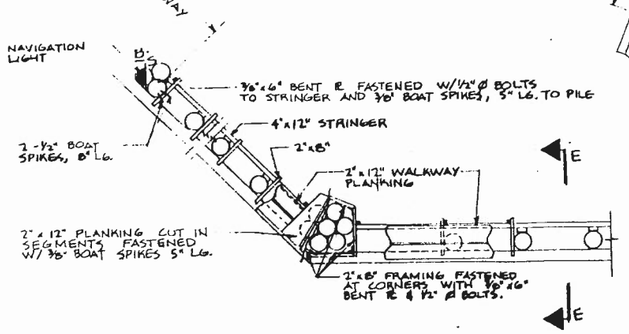
ELEVATION A-A
SCALE: ½" = 1'-0"



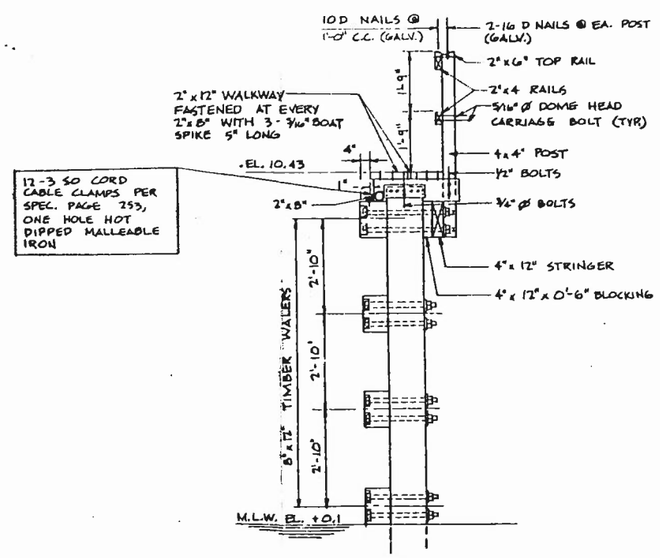




ACCESS WALKWAY TO BASCOLE PIER
SCALE: ⅜" = 1'-0"



TYPICAL WALKWAY PLAN
SCALE: ½" = 1'-0"

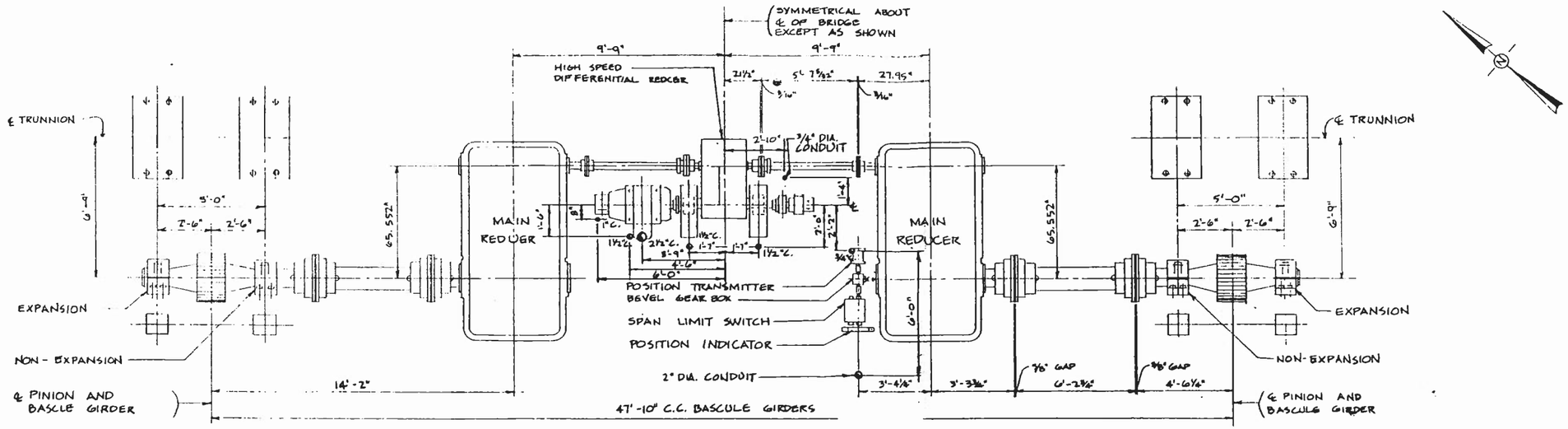


SECTION E-E

MEMBER E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

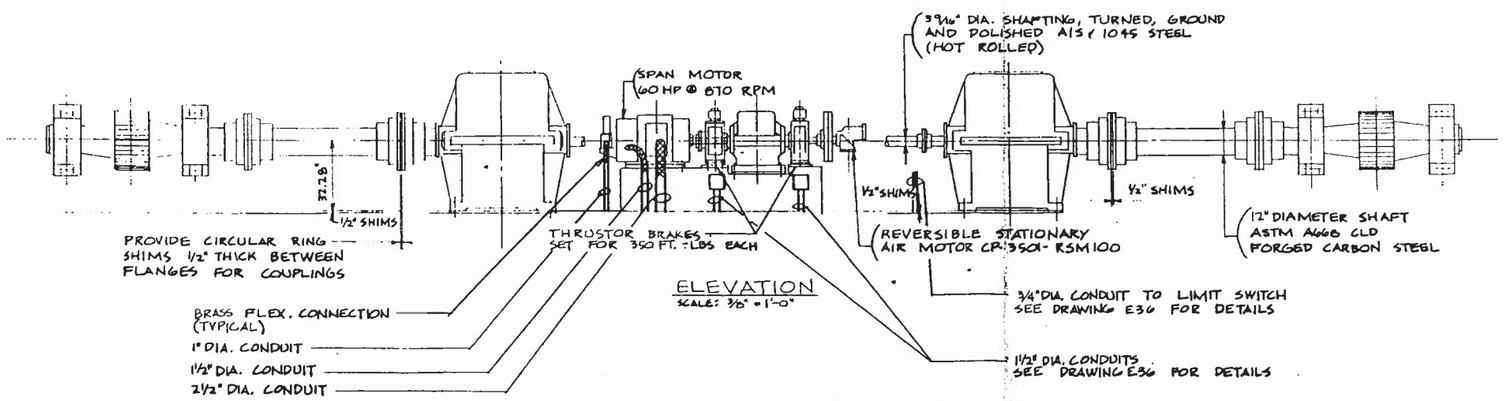
REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE: FENDER SYSTEM	
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E13
	DATE: 5/7/85		



PLAN OF OPERATING MACHINERY

SCALE: 3/8" = 1'-0"

1



ELEVATION

SCALE: 3/8" = 1'-0"

NOTE:
WORK THIS DRAWING WITH E58.

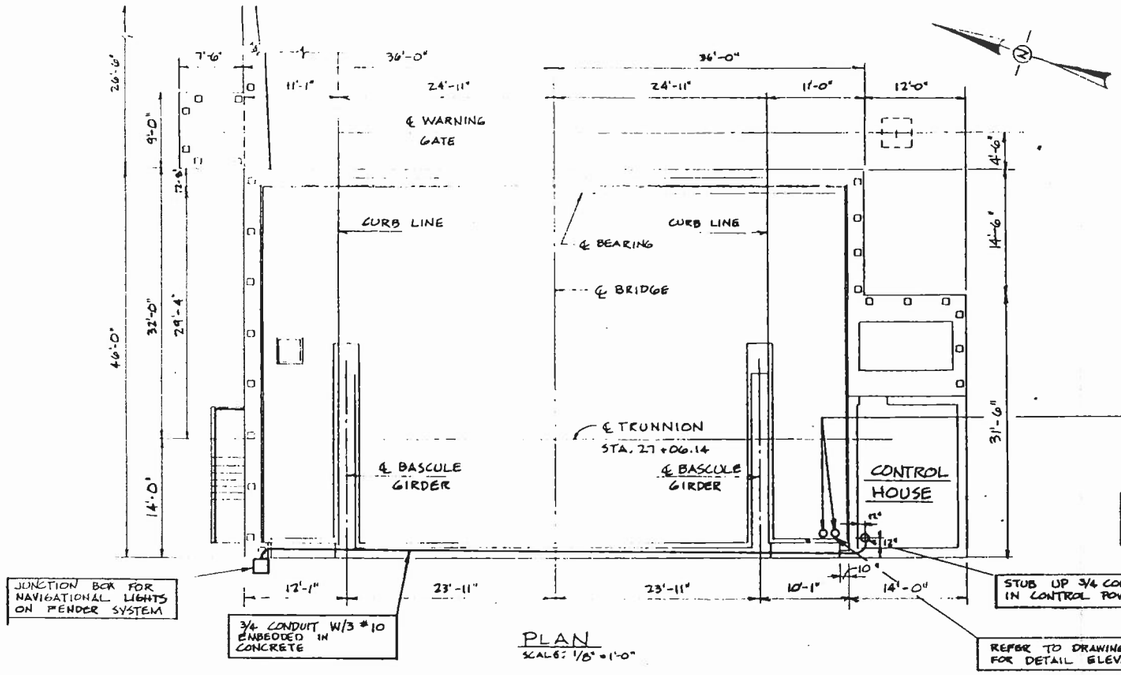
MEMBER I.C.A.D.

Residential Commercial Industrial

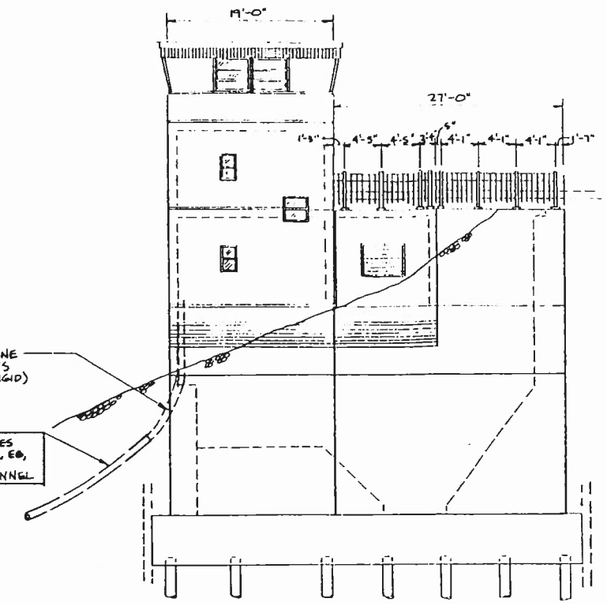
TUDOR ELECTRIC, Inc.
Electrical Contractors

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

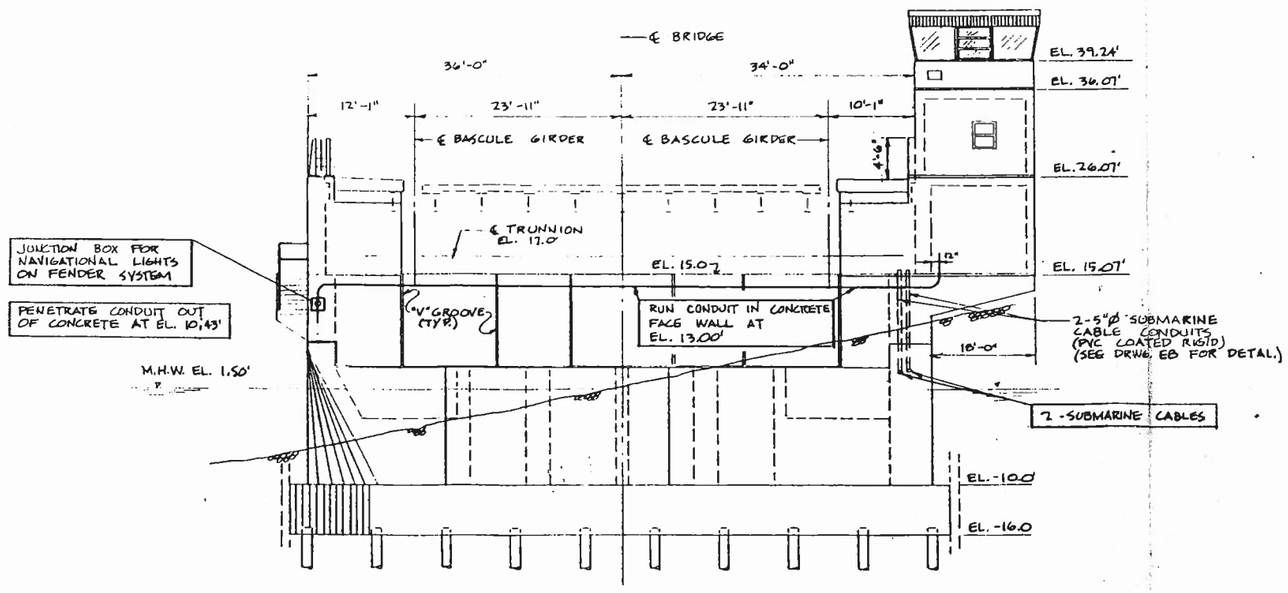
REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE: OPERATING MACHINERY ASSEMBLY	
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E14
	DATE: 1/10/86		



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



SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



WEST ELEVATION
SCALE 1/8" = 1'-0"

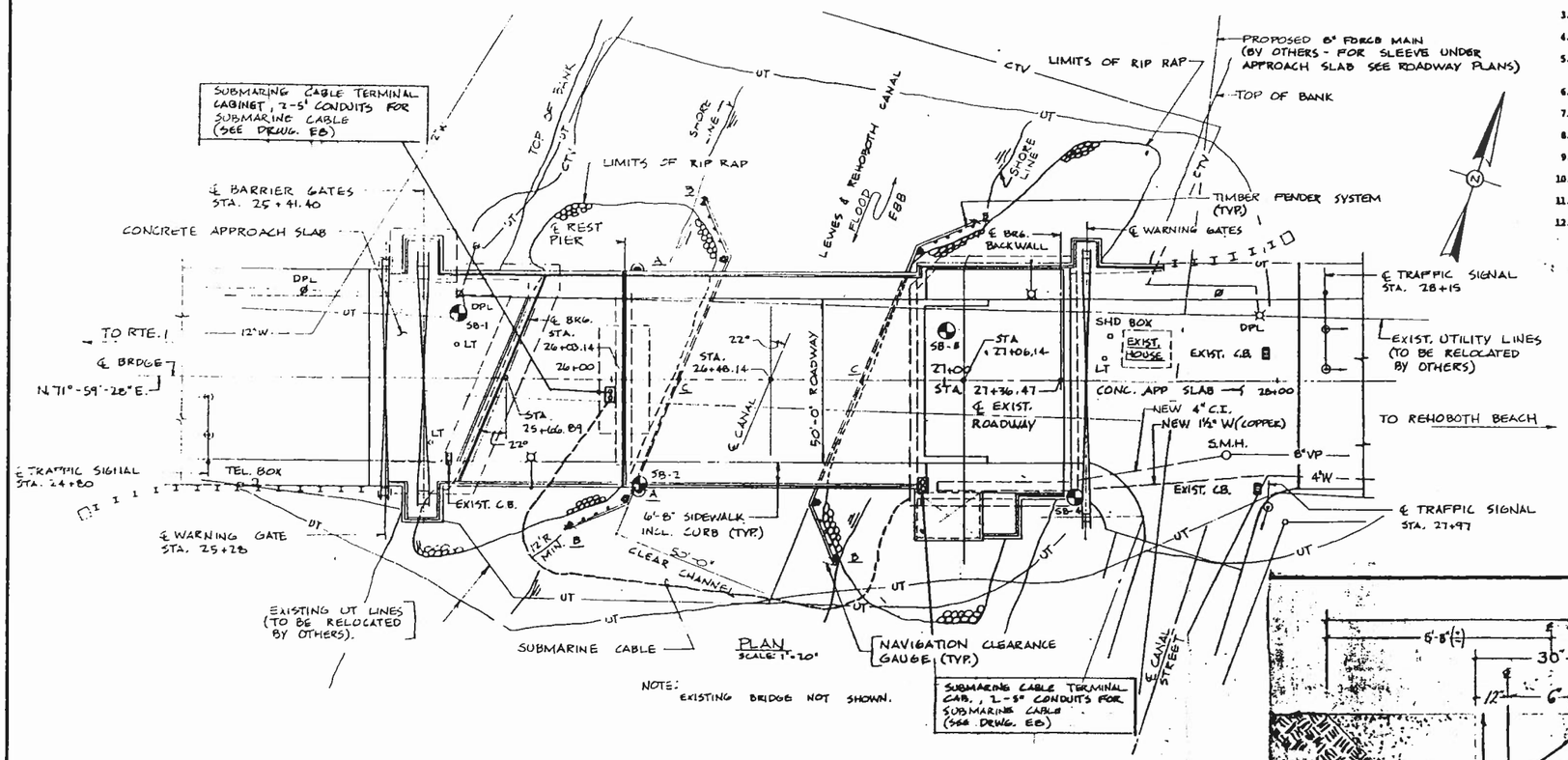
MEMBER E.C.A.D.
Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

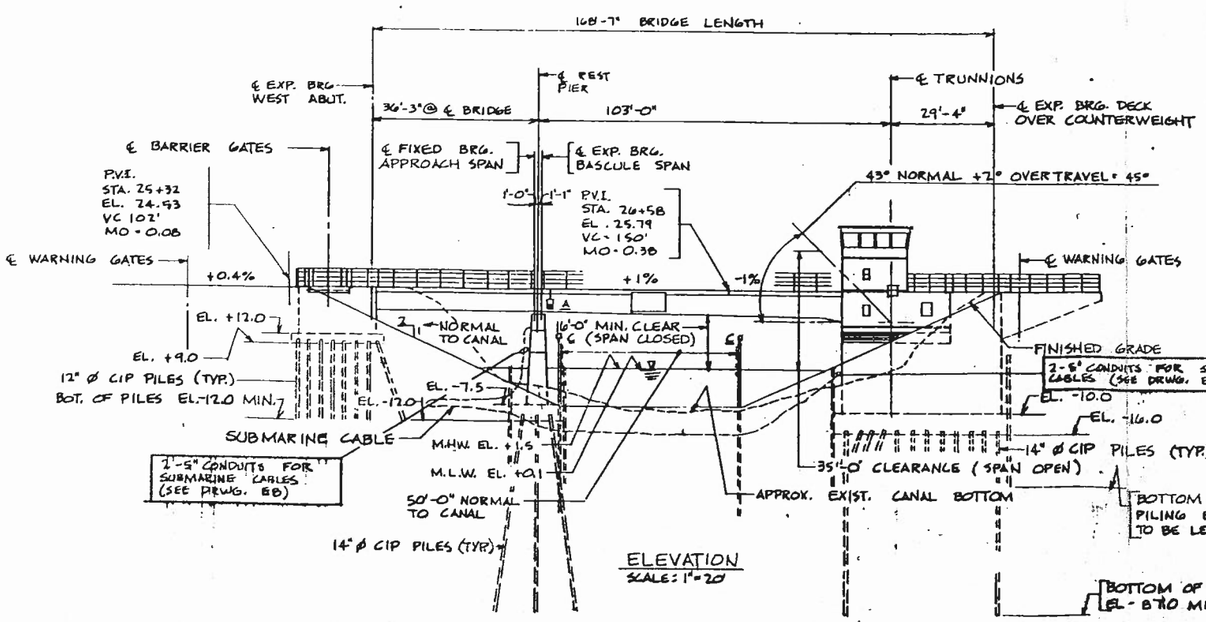
REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE	
	DRAWN BY: JEL	TITLE: BASCULE PIER PLAN AND ELEVATION
	SCALE: AS SHOWN	OWNER
	DATE	DRAWING NO. E15

DRAWING TO BE USED FOR NAVIGATION LIGHT DETAILS AND SUBMARINE CABLE INSTALLATION DETAILS



PLAN
SCALE: 1"=20'

NOTE:
EXISTING BRIDGE NOT SHOWN.



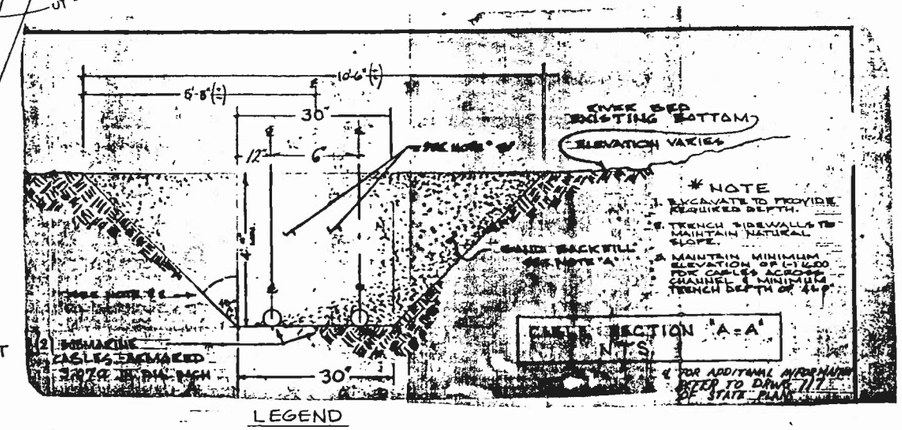
ELEVATION
SCALE: 1"=20'

SUBMARINE CABLE INSTALLATION

1. Layout path of excavation
2. Excavation to be performed by two clam shell excavators, one on each side of canal
3. Excavate to EL-16
4. Diver to check for proper excavation
5. Note: Excavation to approx. EL-13 in beginning, to allow for sighting, prior to cable installation
6. Arrange for inspector's diver to check excavation
7. Reels to be placed on west bank for installation
8. Trench to above water level for initial installation
9. Place cables SEE NOTES "B"
10. Have diver check for proper installation
11. Train cables to each termination point
12. Install proper terminators as prescribed

NOTE 'A' - PRIOR TO BACKFILLING:
1. EACH CONDUCTOR IN 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 EXCAVATED TRENCH AND THE ENGINEER HA GIVEN HIS APPROVAL FOR BACKFILLING.

NOTE 'B'
SPACING TO BE MAINTAINED - NO CABLE CROSSOVER ALLOWED

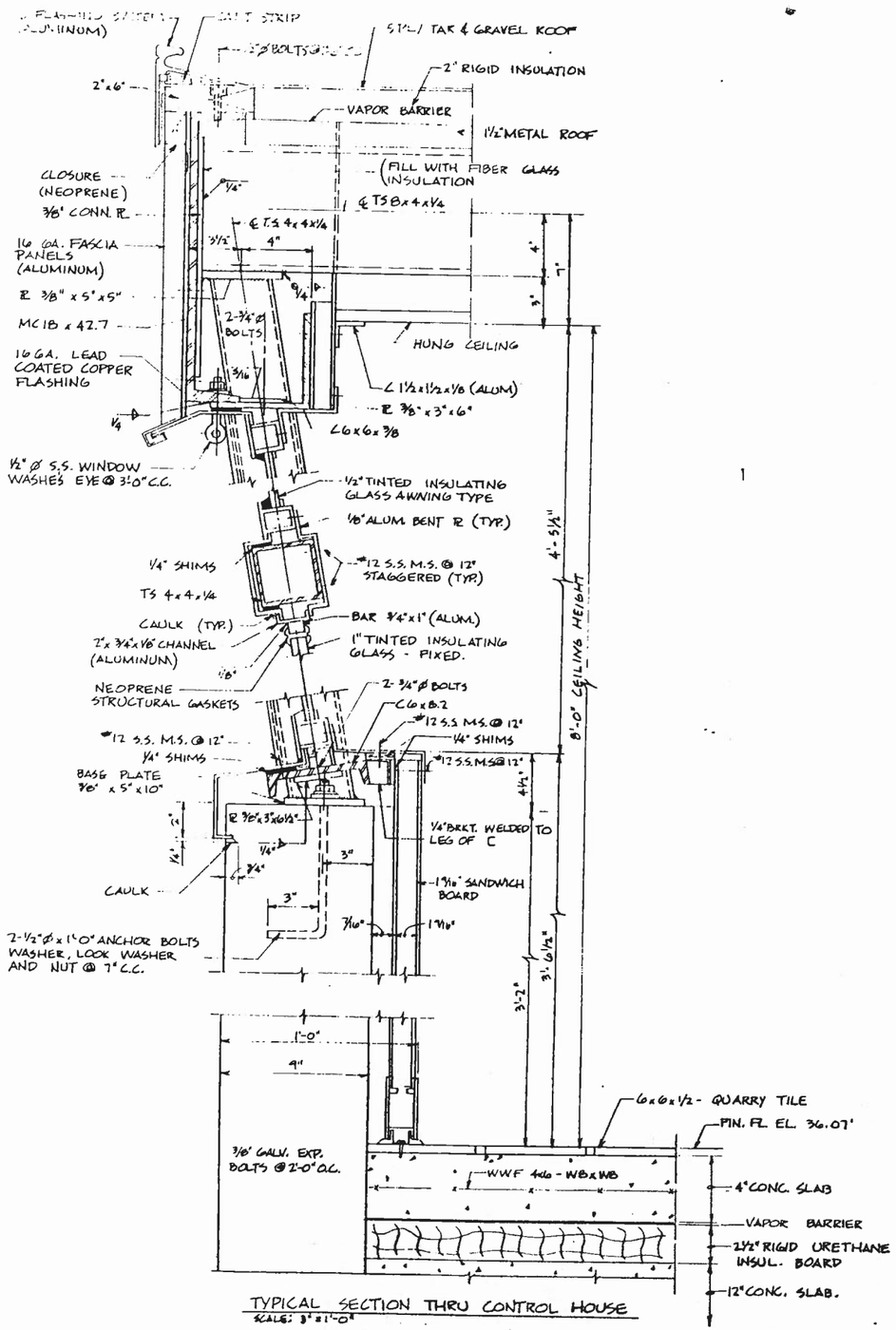


LEGEND

- A — BASCULE SPAN LIGHT 180° RED, SPAN CLOSED 180° GREEN, SPAN OPEN
- B — PIER LIGHT, 180° RED
- C — AXIS LIGHT, 180° RED
- TRAFFIC SIGNAL ASSEMBLY
- SB — STRUCTURE BORING
- ROADWAY LIGHTING STD. ASSY. W/250 W H.P.S. LUMINAIRE

MEMBER I.E.A.D.
Residential Commercial Industrial
TUDOR ELECTRIC, Inc.
Electrical Contractor
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE: PLAN AND ELEVATION BASCULE BRIDGE	
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E16
	DATE: 5/13/86		



TYPICAL SECTION THRU CONTROL HOUSE
SCALE: 3" = 1'-0"

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Residential
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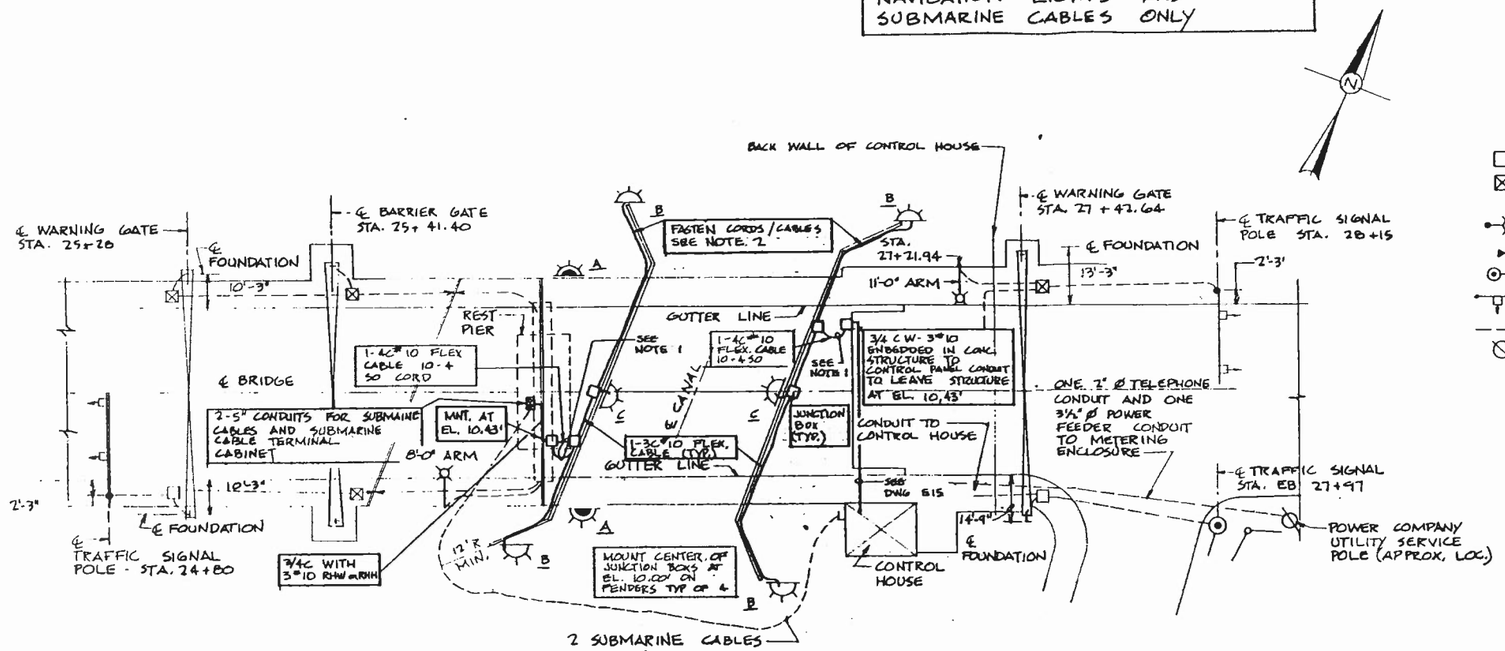
TUDOR ELECTRIC, Inc.
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE: CONTROL HOUSE TYP. SECTION	
	SCALE: AS SHOWN	OWNER	DRAWING NO. E17
	DATE		

USE DRAWING FOR INSTALLATION OF NAVIGATION LIGHTS AND SUBMARINE CABLES ONLY



PLAN
NO SCALE

LEGEND

- CONCRETE JUNCTION WELL
- SIDEWALK TERMINAL BOX (CAST IRON)
- ROADWAY LIGHTING STANDARD ASSEMBLY
- R.M.C. EXPANSION JOINT
- TRAFFIC LIGHT ASSEMBLY
- MAST ARM TRAFFIC LIGHT ASSEMBLY
- RIGID METALLIC CONDUIT
- UTILITY SERVICE POLE

NAVIGATION LIGHTS

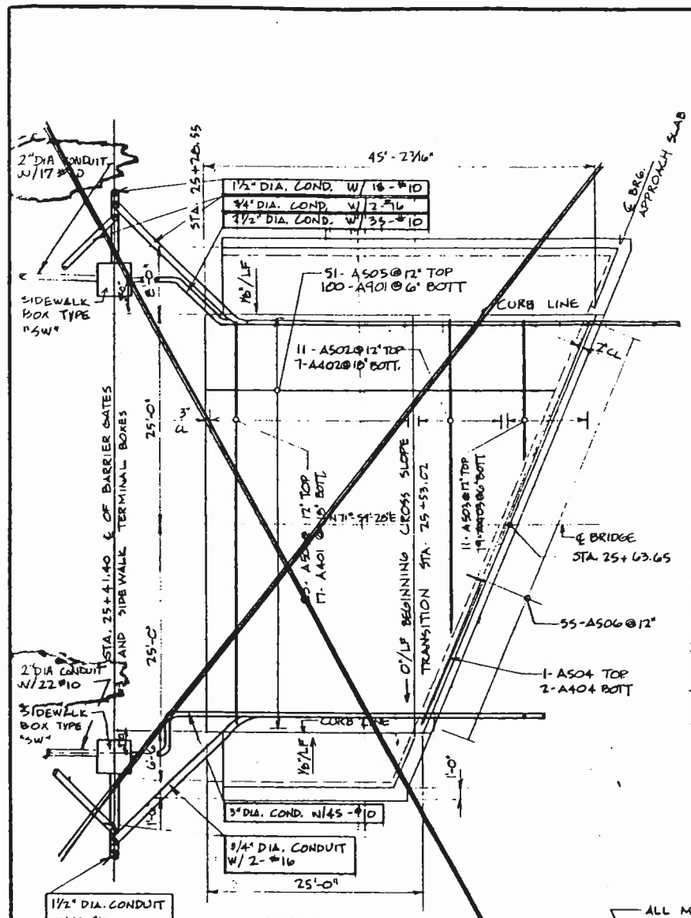
- 360° RED/GREEN BASCULE LIGHT
- 180° RED AXIS MARKER LIGHT
- 180° RED CHANNEL MARKER LIGHT

NOTES:

1. RUN CABLE ALONG WALKWAY BETWEEN PIERS AND FENDERS.
2. CLAMP CHORDS / CABLES WITH ONE HOLE, HOT DIPPED MALLEABLE IRON CLAMPS.
3. ALL FENDERS AND BRIDGE NAVIGATIONAL LIGHT JUNTION BOXES TO BE CAST IRON, WITH TREADED HUBS. (SPRING CITY TYPE HC) SIZE OF BOXES WILL BE 6x6x4 WITH THE EXCEPTION OF THE BASCULE LEAF MAIN FEEDER FLEXIBLE CORDS (NOT SHOWN ON THIS DRAWING.)
4. ⚠ ALL WIRE / CABLES TO HAVE TYPE RHW / RHH INSULATION TROUGH OUT BRIDGE STRUCTURE WITH THE EXCEPTION OF THE SUBMARINE CABLE (SEE SPEC'S FOR SUBMARINE CABLE)

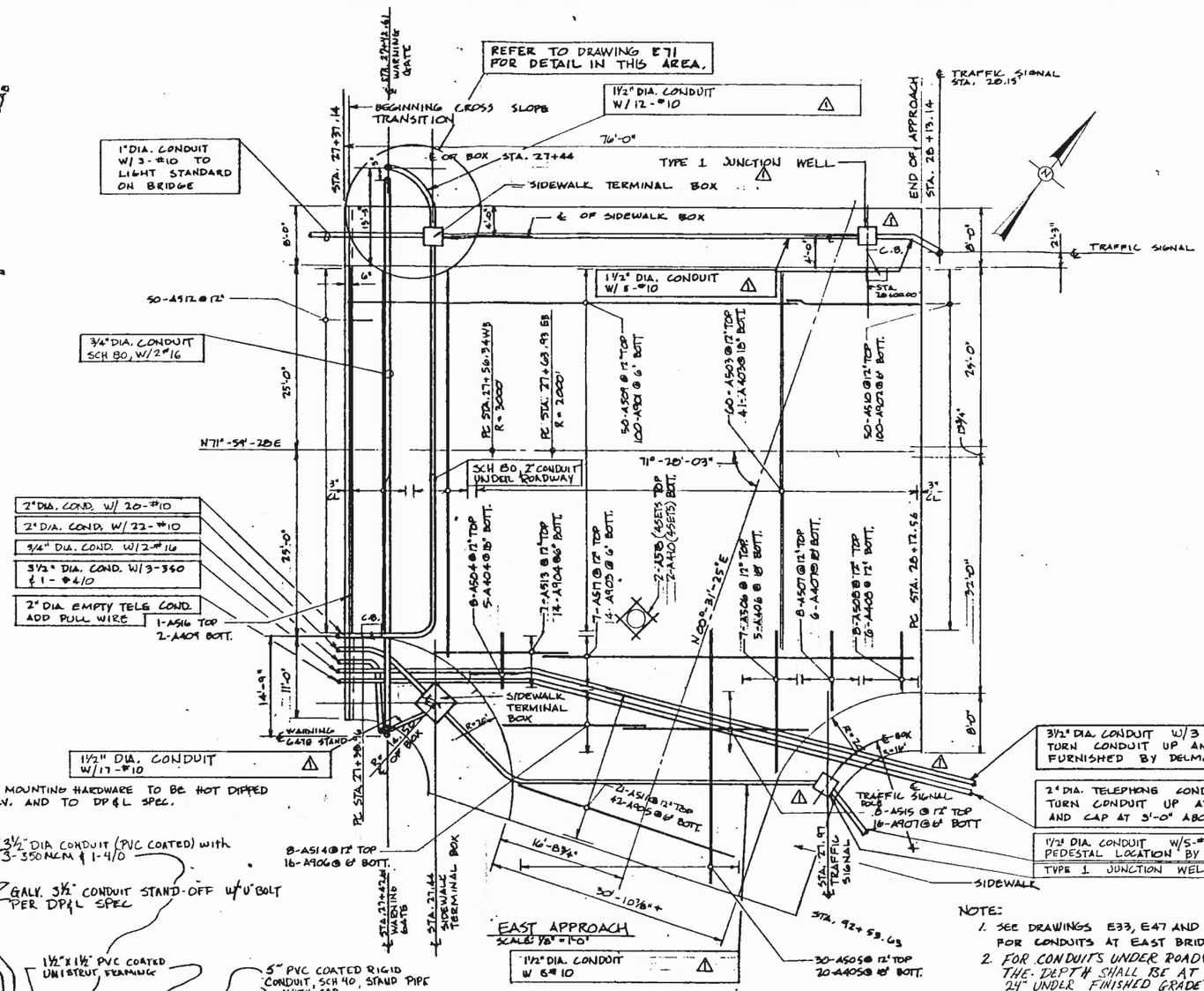
MEMBER E.C.A.D.
Residential Commercial Industrial
TUDOR ELECTRIC, Inc.
Electrical Contractors
1088 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE ELECTRICAL DETAIL III	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E18
⚠ 6/20/85	DATE 5/15/85		



WEST APPROACH
SCALE: 1/8" = 1'-0"

NOTE:
SEE DRAWINGS E27 AND E33 FOR MORE DETAIL ON WEST APPROACH

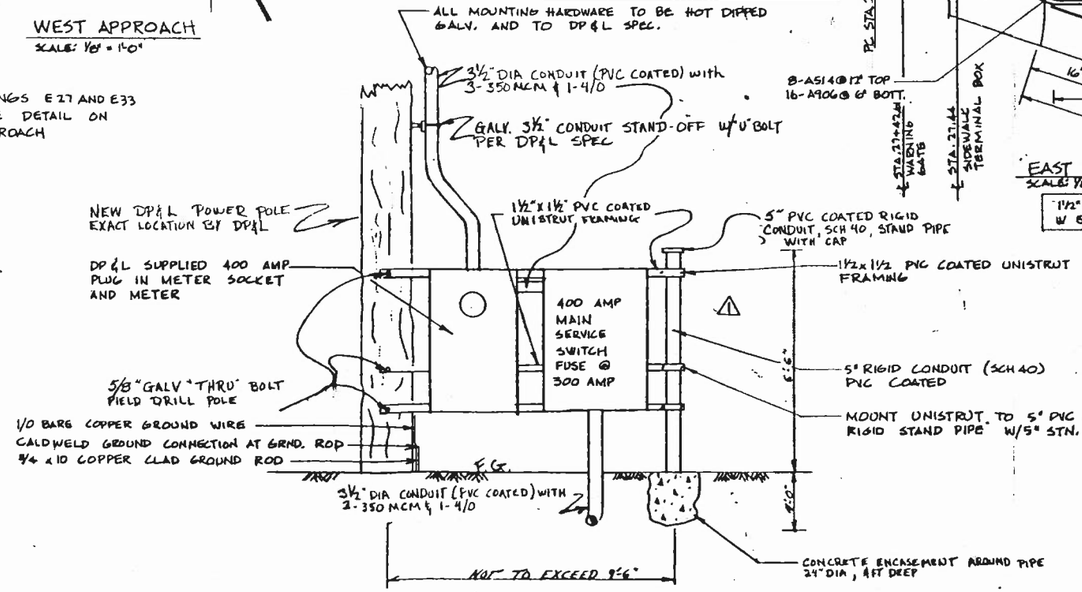


EAST APPROACH
SCALE: 1/8" = 1'-0"

1½" DIA. CONDUIT W 6-#10

NOTE:
1. SEE DRAWINGS E33, E47 AND E51 FOR CONDUITS AT EAST BRIDGE
2. FOR CONDUITS UNDER ROADWAY THE DEPTH SHALL BE AT LEAST 24" UNDER FINISHED GRADE

FOR WARNING GATE AND TRAFFIC SIGNAL CONCRETE BASES REFER TO DRWG. E46



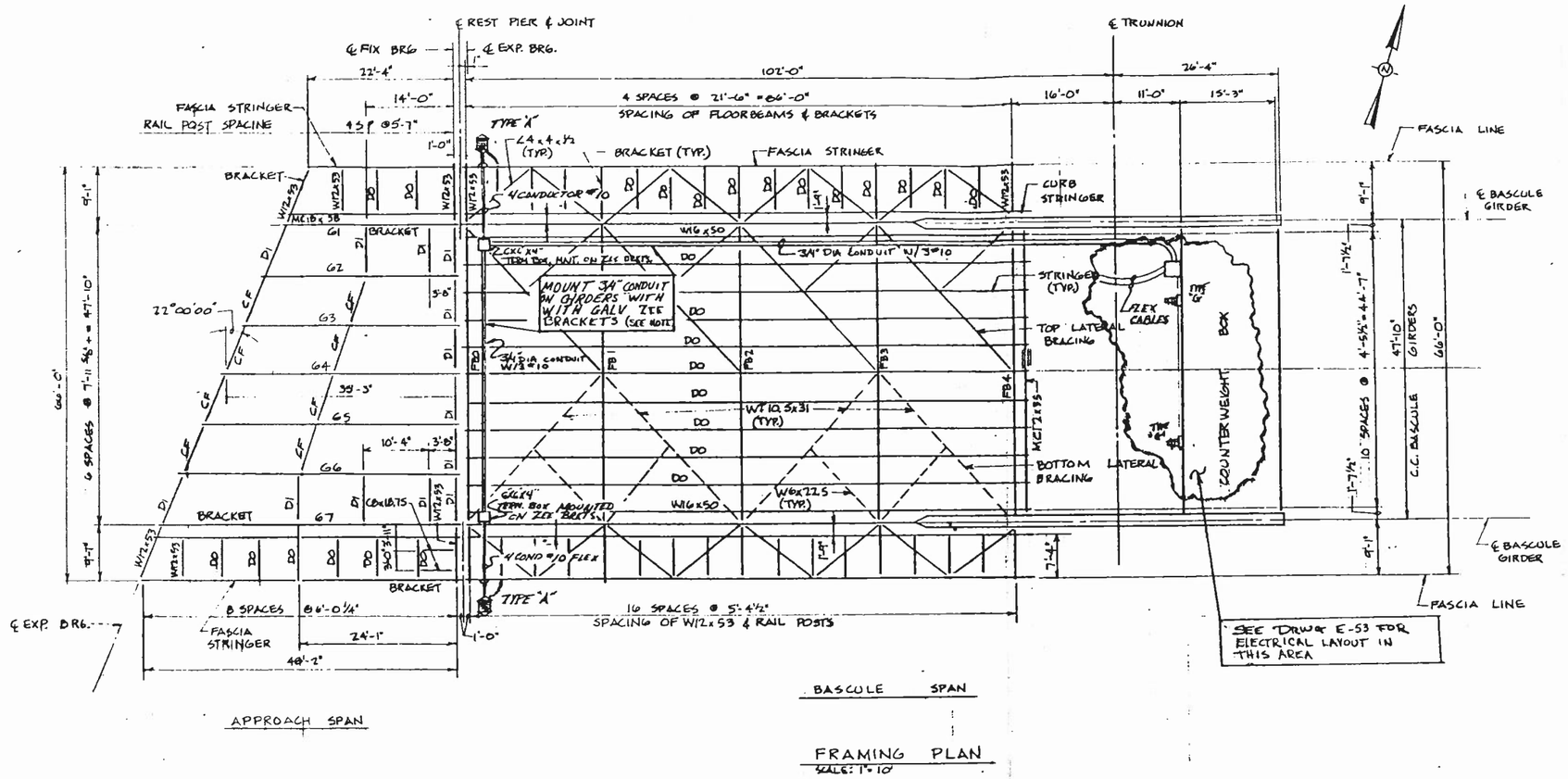
DP&L SERVICE POLE DETAIL

Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 11/20/85
Item Conduits at Approach Slabs

MEMBER C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1066 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT		
1/13/86	REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE CONDUITS AT APPROACH SLABS	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E19
	DATE 11/19/85		



APPROACH SPAN

BASCULE SPAN

FRAMING PLAN
SCALE: 1" = 10'

WORK THIS DRWG WITH E21, E52, E53 & E56

NOTE
FOR DETAILS ON "ZEE" BRACKET
SEE DRWG E-27

Tudor Electric
Approval Sheet
Job Rehoboth AVE BRIDGE
Date 12-2-85
Item BASCULE SPAN

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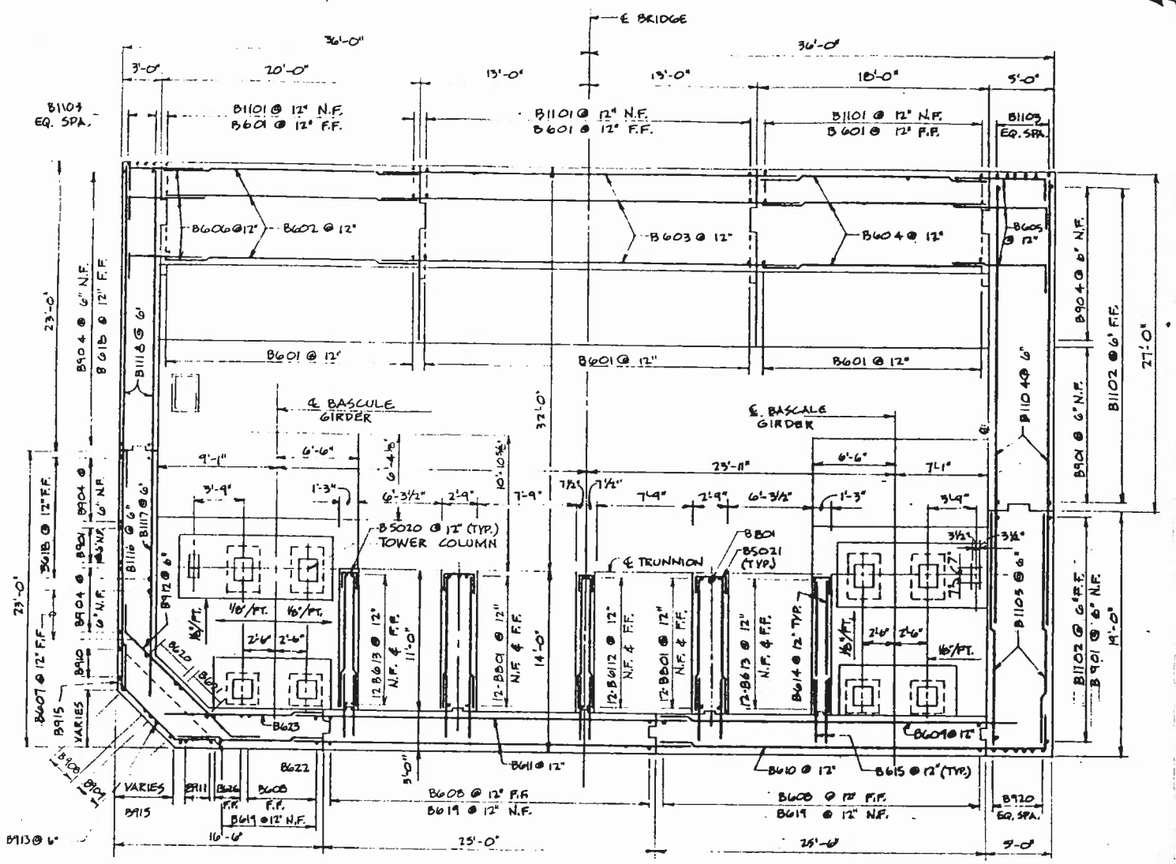
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

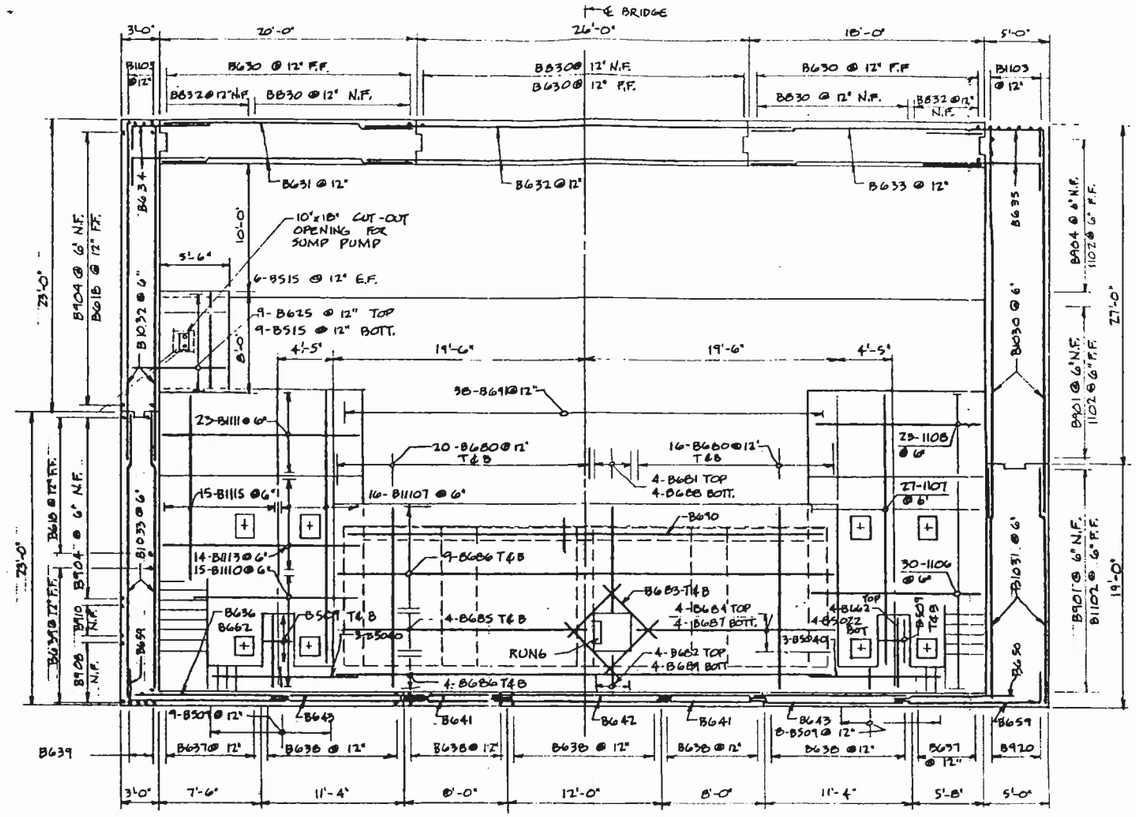
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 735-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE BASCULE SPAN AND APPROACH SPAN FRAMING PLAN	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT OF TRANS. DIV. OF HIGHWAYS	DRAWING NO. E20
	DATE 12-2-85		



SECTION AT ELEVATION +1.0

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



SECTION AT ELEVATION +9.0

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

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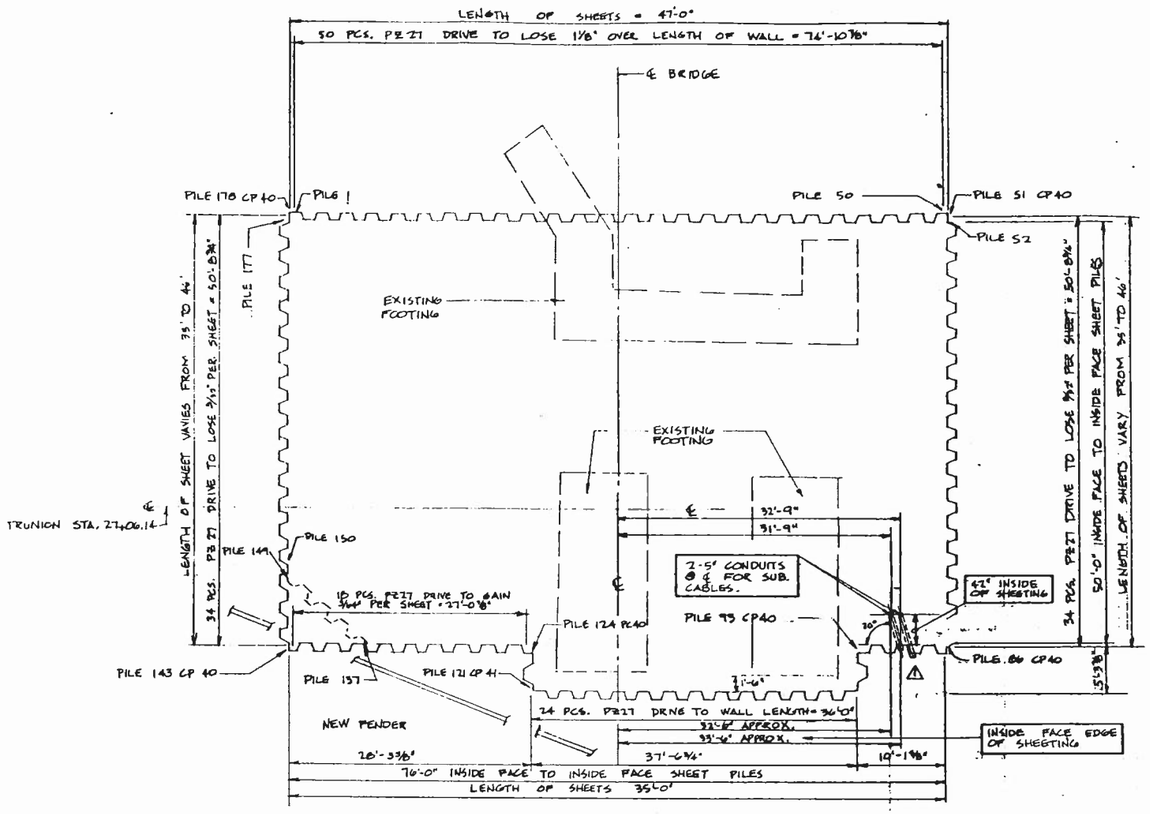
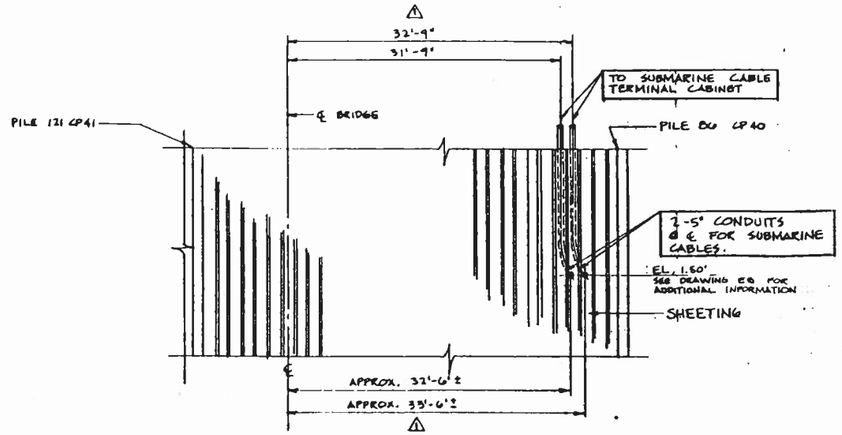
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

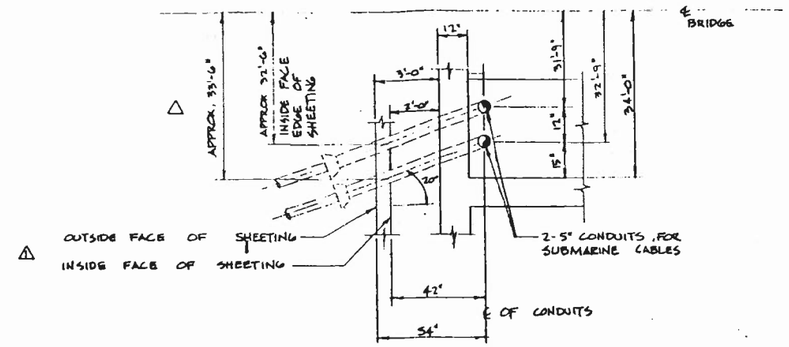
REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE	
	DRAWN BY: JEL	TITLE: BASCULE PIER SECTION AT ELEVATIONS +1.0 AND +9.0
	SCALE: AS SHOWN	OWNER
	DATE	DRAWING NO. E21



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



ELEVATION
SCALE: 1/8" = 1'-0"



PLAN AT CONTROL HOUSE
NO SCALE

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Residential Commercial Industrial

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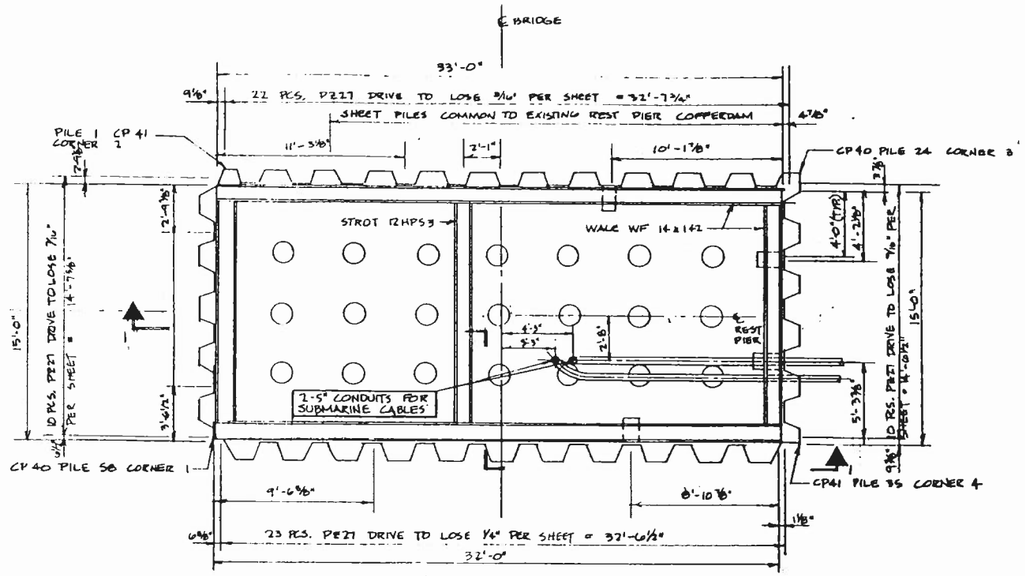
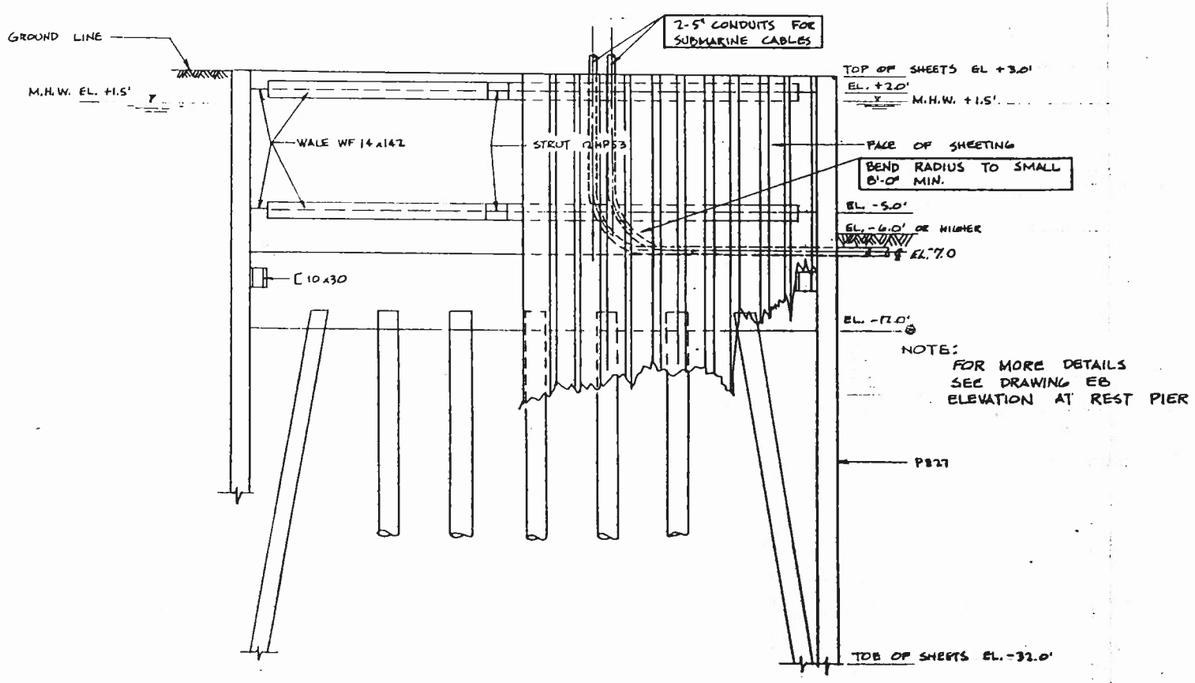
DOVER, DELAWARE 19901
Phone 735-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE BASCOLE PIER COFFERDAN	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E22
△ - 6/20/05	DATE 5/22/05		



REST PIER - PLAN
SCALES 1/4" = 1'-0"



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

Tudor Electric
Approval Sheet
Job Rehoboth Ave. Bridge
Date 10/16/85
Item Conduits @ Rest Pier

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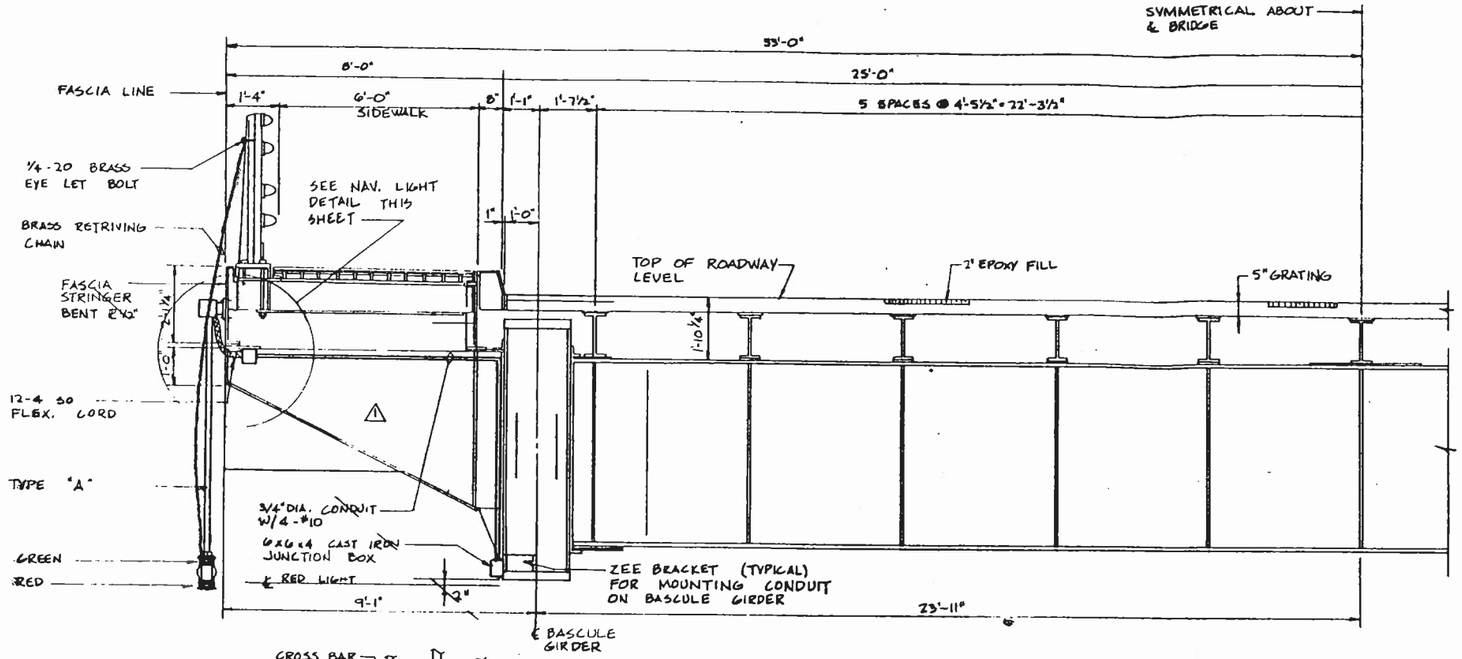
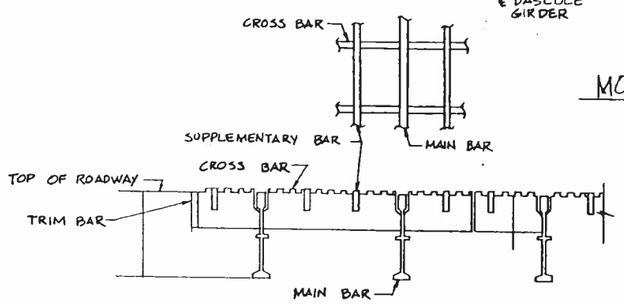
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

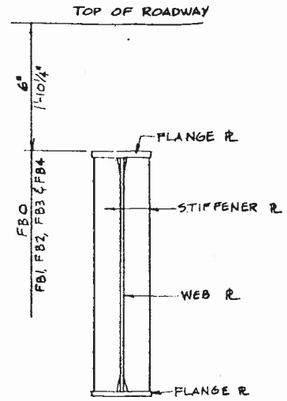
REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE NEW REST PIER COFFERDAM	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E23
	DATE 8/23/85		



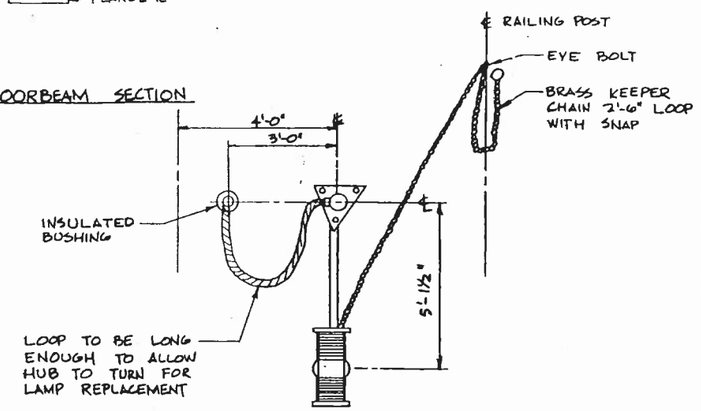
MOUNT NAVIGATION LIGHT PER SKETCH NEAR "FBO"



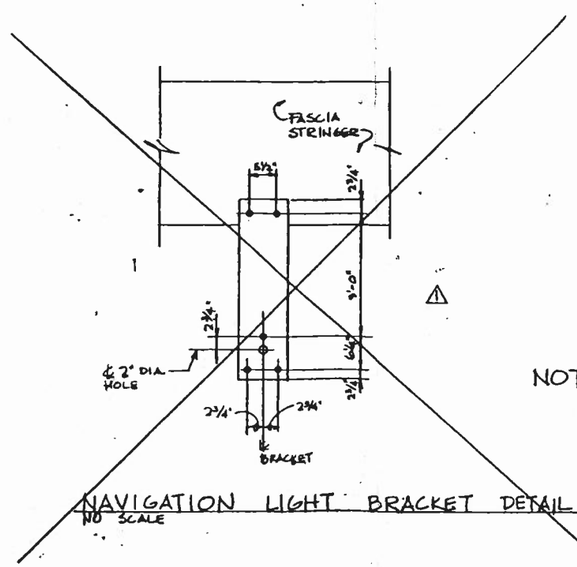
TYPICAL SUPPLEMENTARY WELD
FOR ROADWAY GRATING
NO SCALE



TYPICAL FLOORBEAM SECTION
NO SCALE

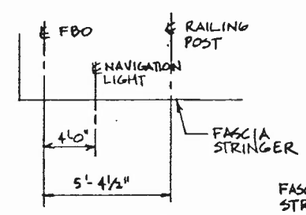


ELEVATION

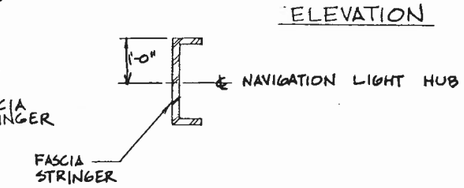


NAVIGATION LIGHT BRACKET DETAIL
NO SCALE

NOTE:
WORK WITH DRAWING E73



PLAN VIEW
LOCATION



NAVIGATION LIGHT DETAIL
NO SCALE

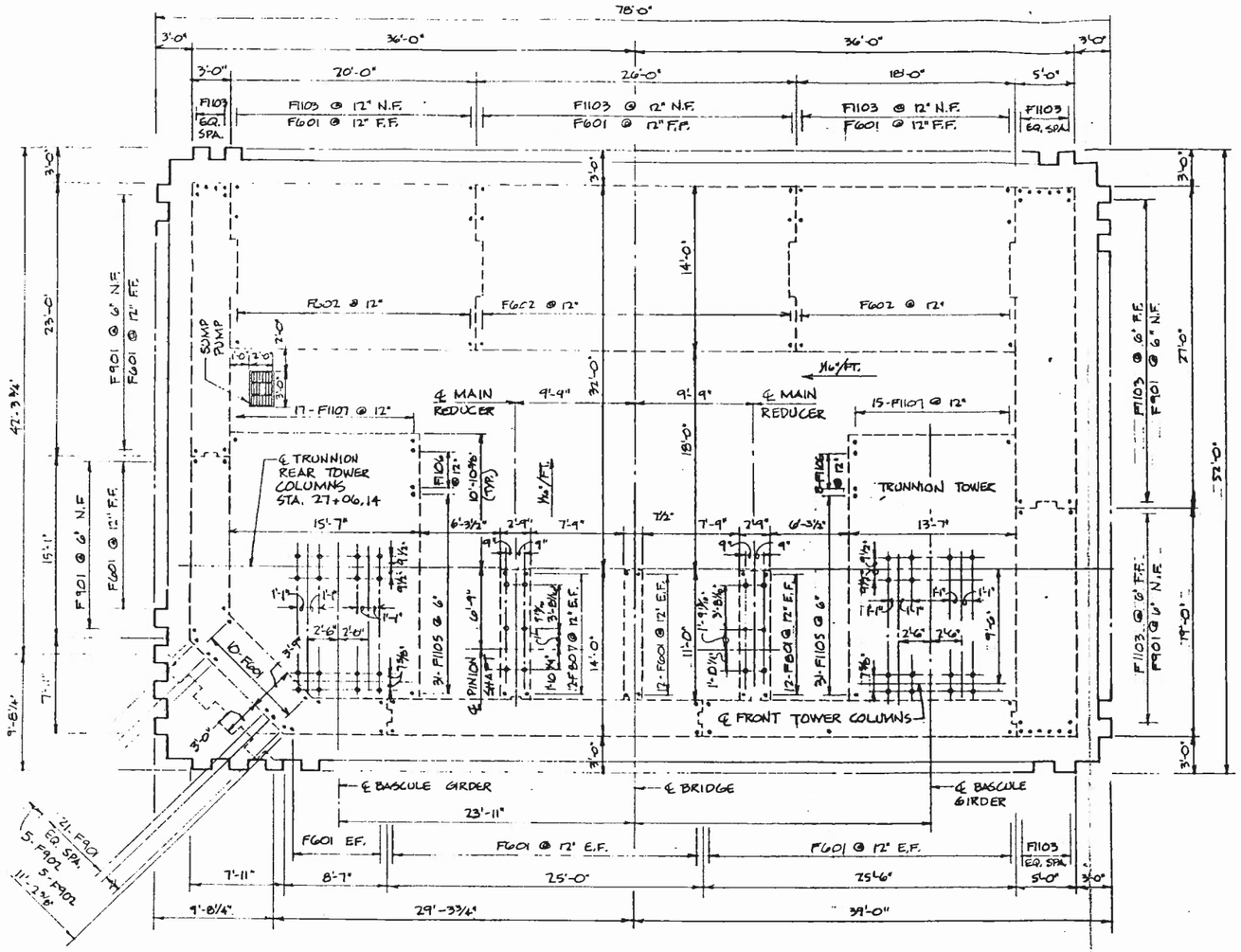
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 2/15/86
Item Bascule Leaf Navigational Light

MEMBER N.E.C.A.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

1066 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT		
1 - 2/5/86	REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE: BASCULE SPAN FLOORBEAM FB4	
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAY	DRAWING NO. E24
	DATE: 10/28/85		



SECTION AT ELEVATION -10.0
SCALE: 3/16" = 1'-0"

MEMBER I. C. A. D.

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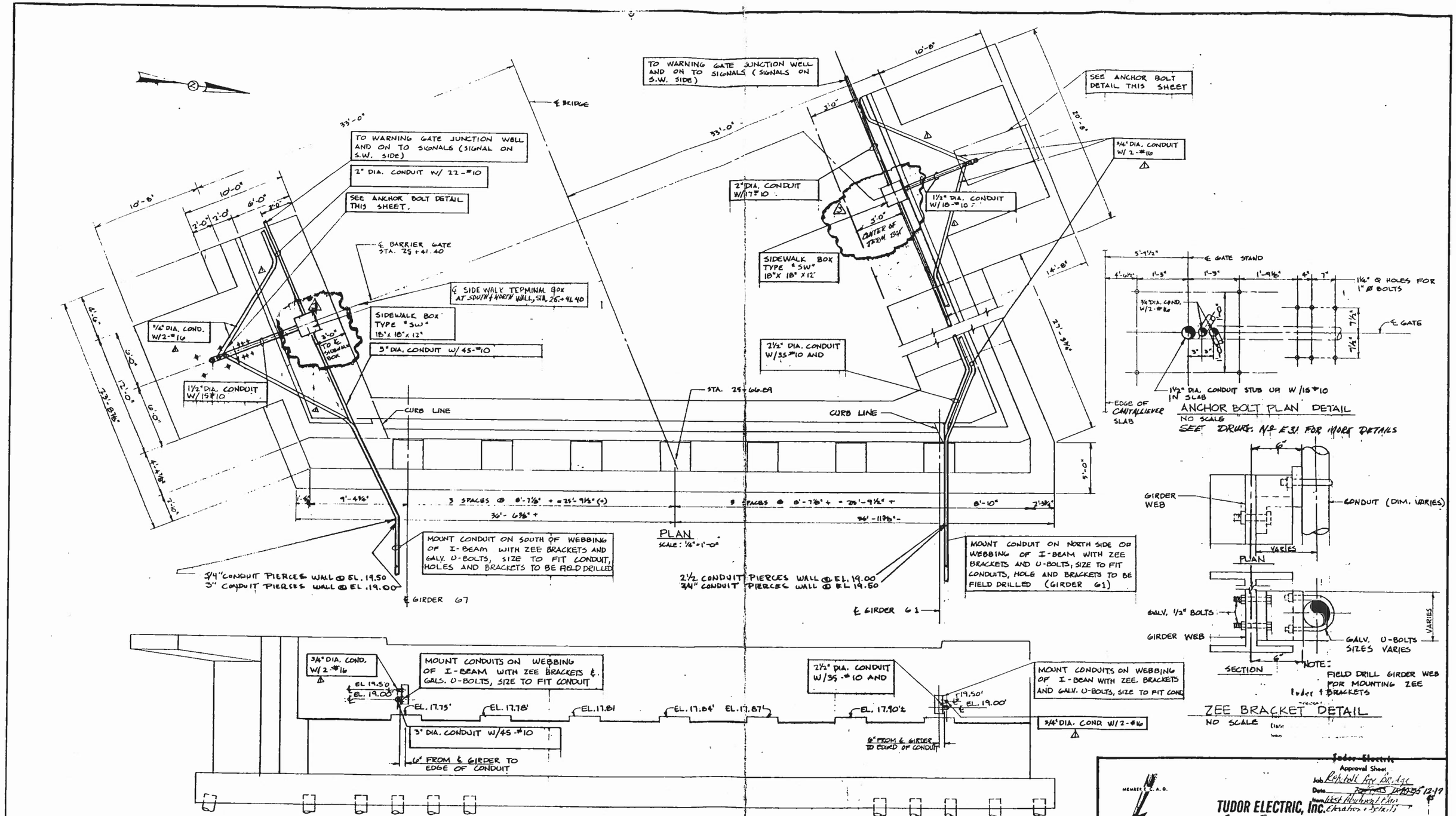
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE	
	DRAWN BY: JEL	TITLE BASCULE PIER SECTION AT ELEVATION -10.0'
	SCALE AS SHOWN	OWNER
	DATE	DRAWING NO. E-25



NOTE:
FOR ADDITIONAL DETAIL SEE DRAWING E31.

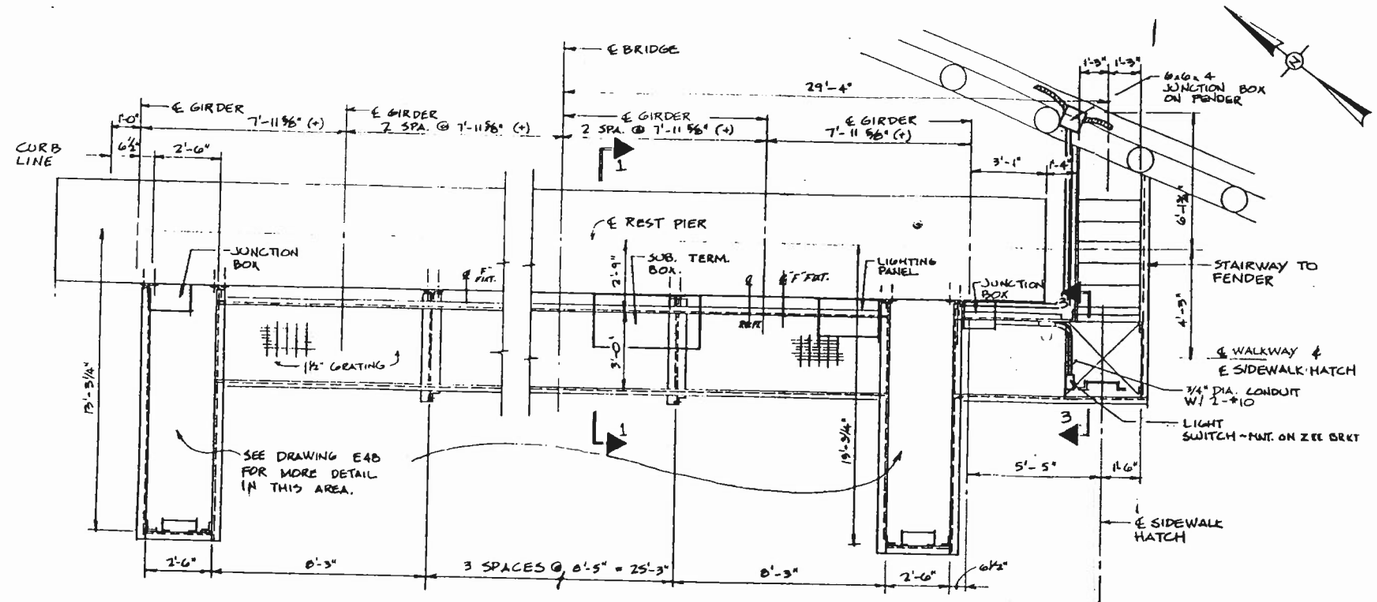
~~Tudor Electric~~
Approval Sheet
Job Rehoboth Ave. Bridge
Date ~~[illegible]~~ 12-17
Item West Abutment Plan Elevation & Details

MEMBER N.E.C.A.O.
Residential Commercial Industrial

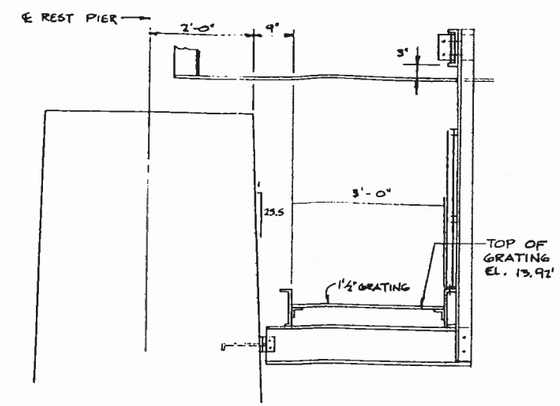
TUDOR ELECTRIC, Inc.
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

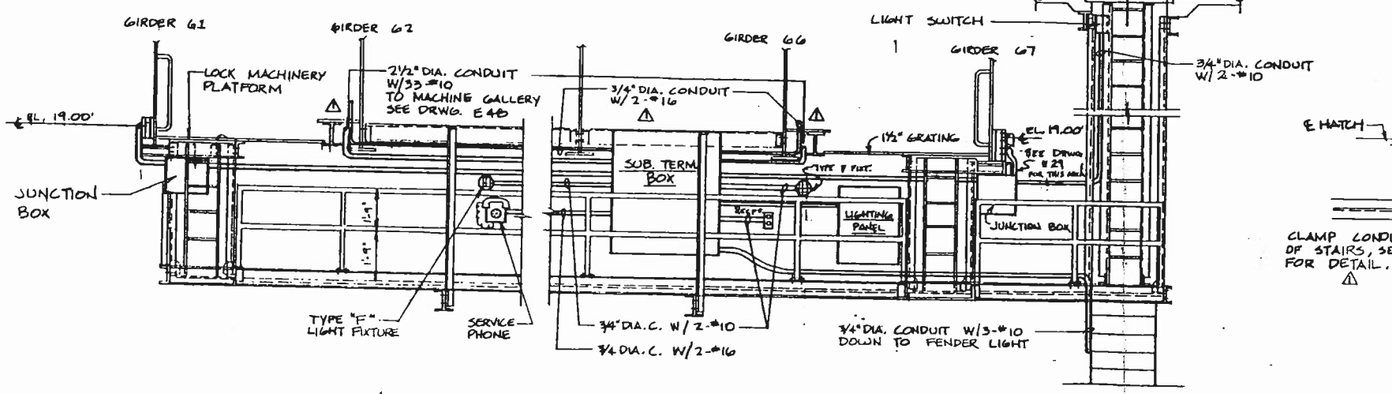
REVISIONS	PROJECT		
1 11/11/85	REHOBOTH AVENUE BRIDGE		
2 11/20/85 MOVED SOUTH SIDEWALK BOX	DRAWN BY: JEL	TITLE WEST ABUTMENT PLAN, ELEVATION AND DETAILS	
3 12/19/85 ADDED SIDEWALK TERM. BOX	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E27
	DATE 6/17/85		



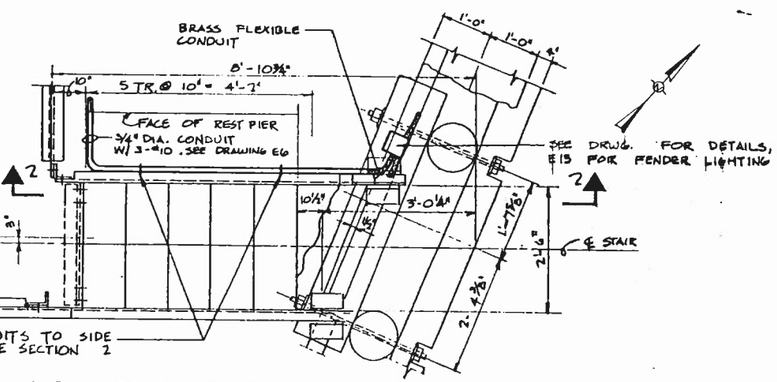
PLAN
NO SCALE



SECTION 1
SCALE: ¾" = 1'-0"

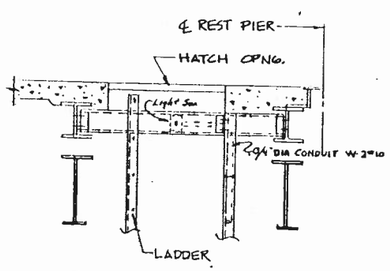


ELEVATION
NO SCALE
SEE DRWG E-39

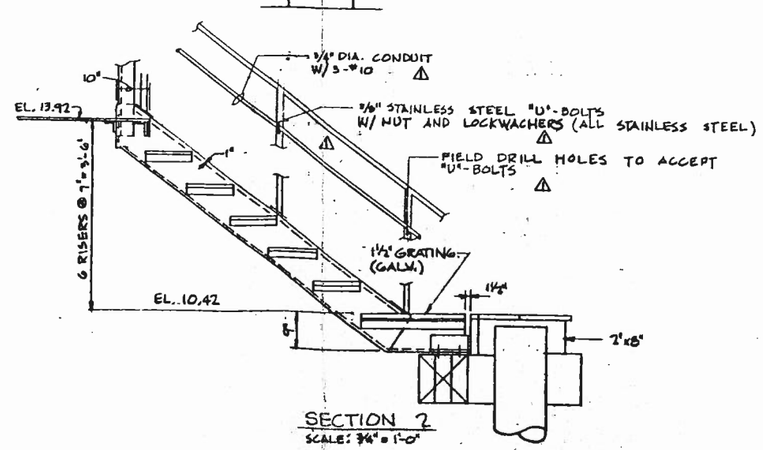


PLAN- STAIRWAY TO FENDER
SCALE: ¾" = 1'-0"

NOTE:
REFER TO DRAWING E39 FOR DETAILS



SECTION 3
SCALE: ½" = 1'-0"



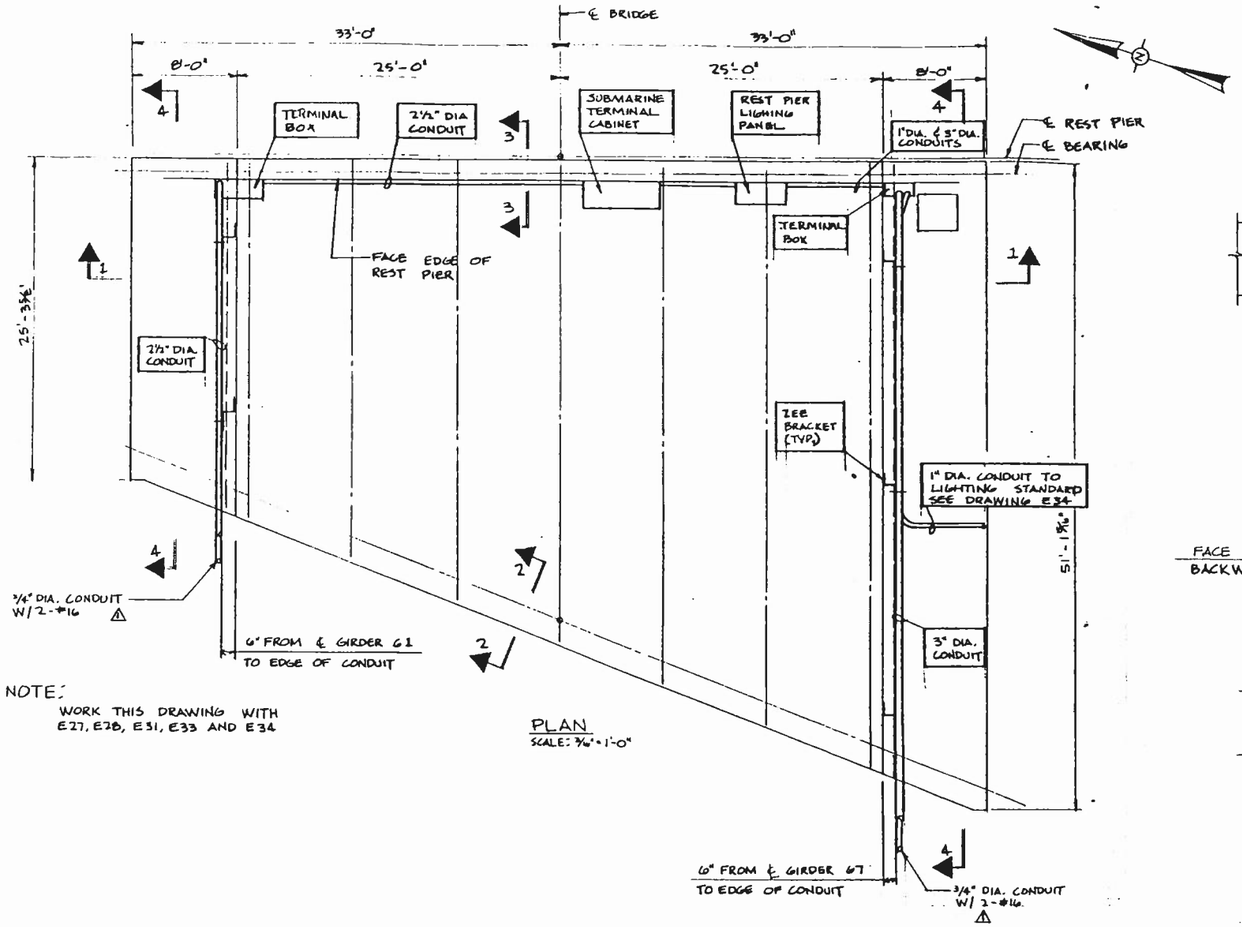
SECTION 2
SCALE: ¾" = 1'-0"

Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 12-17-85
Item Walkway & Ladder Details

MEMBER C.A.D.
Residential Commercial Industrial

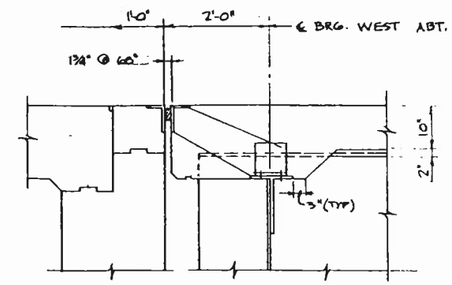
TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE	
1 12/16/85	DRAWN BY: JEL	TITLE: WALKWAY DETAILS AT REST PIER
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRAN DIVISION OF HIGHWAYS
	DATE: 6/18/85	DRAWING NO. E28

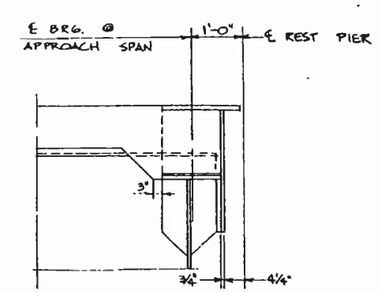


NOTE:
WORK THIS DRAWING WITH E27, E28, E31, E33 AND E34

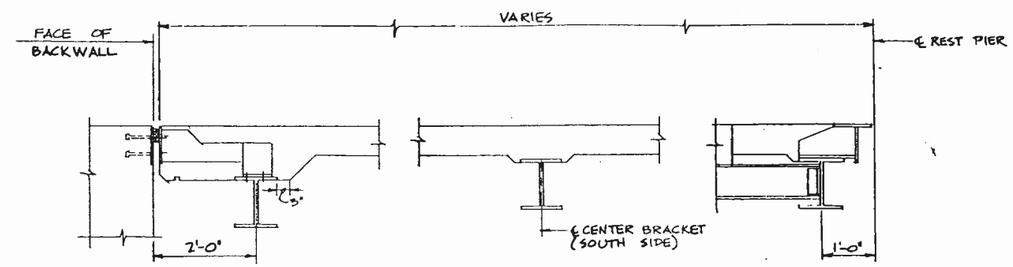
PLAN
SCALE: ⅜" = 1'-0"



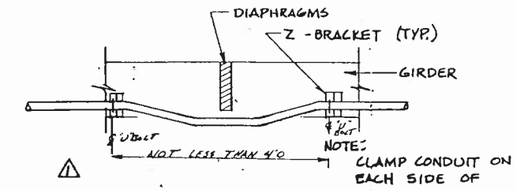
SECTION 2
SCALE: ¾" = 1'-0"



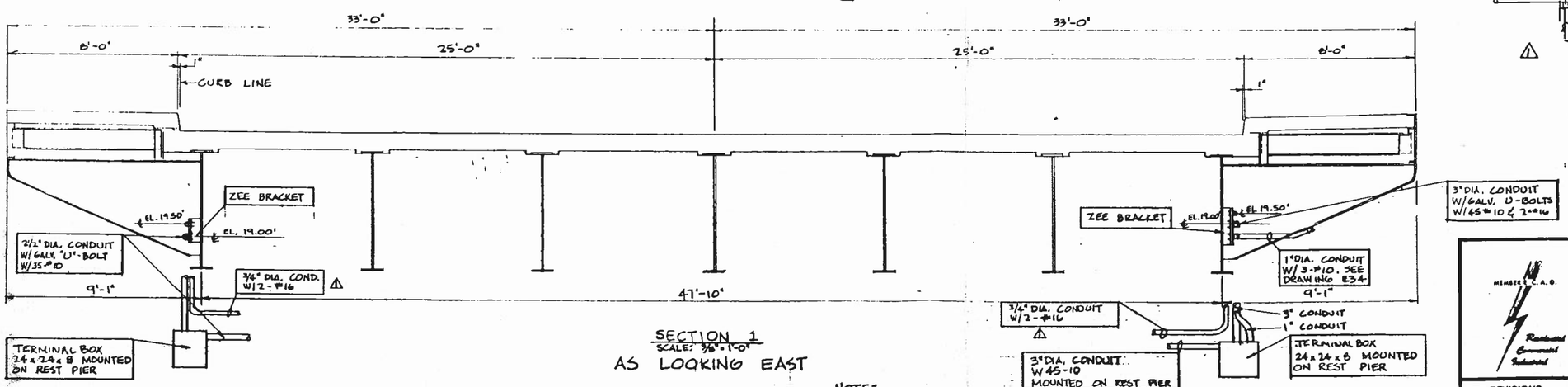
SECTION 3
SCALE: ¾" = 1'-0"



SECTION 4
SCALE: ¾" = 1'-0"



NOTE:
CLAMP CONDUIT ON EACH SIDE OF DIAPHRAGMS



SECTION 1
SCALE: ⅜" = 1'-0"
AS LOOKING EAST

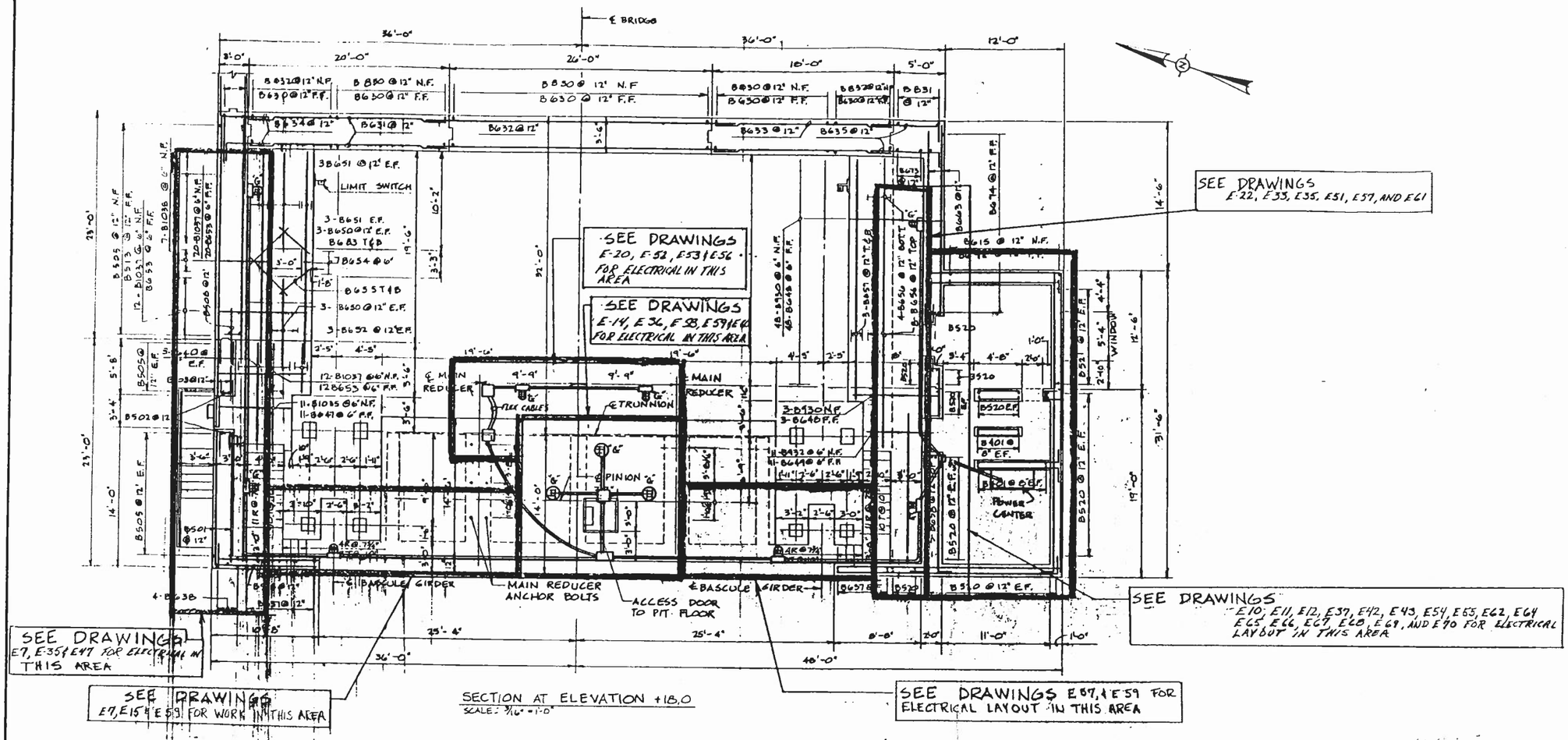
NOTE:
SEE DRAWING E28 FOR CONDUITS AND CABINETS LOCATED ON THE FACE WALL OF REST PIER

Tudor Electric
Approved Shop Dwg.
Job Rehoboth Ave. Bridge
Date 11-15-85
Item Approach Span - Deck Slab

MEMBER N.E.C.A.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT		
1 11/15/85	REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE APPROACH SPAN - DECK SLAB	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E29
	DATE 6/20/85		



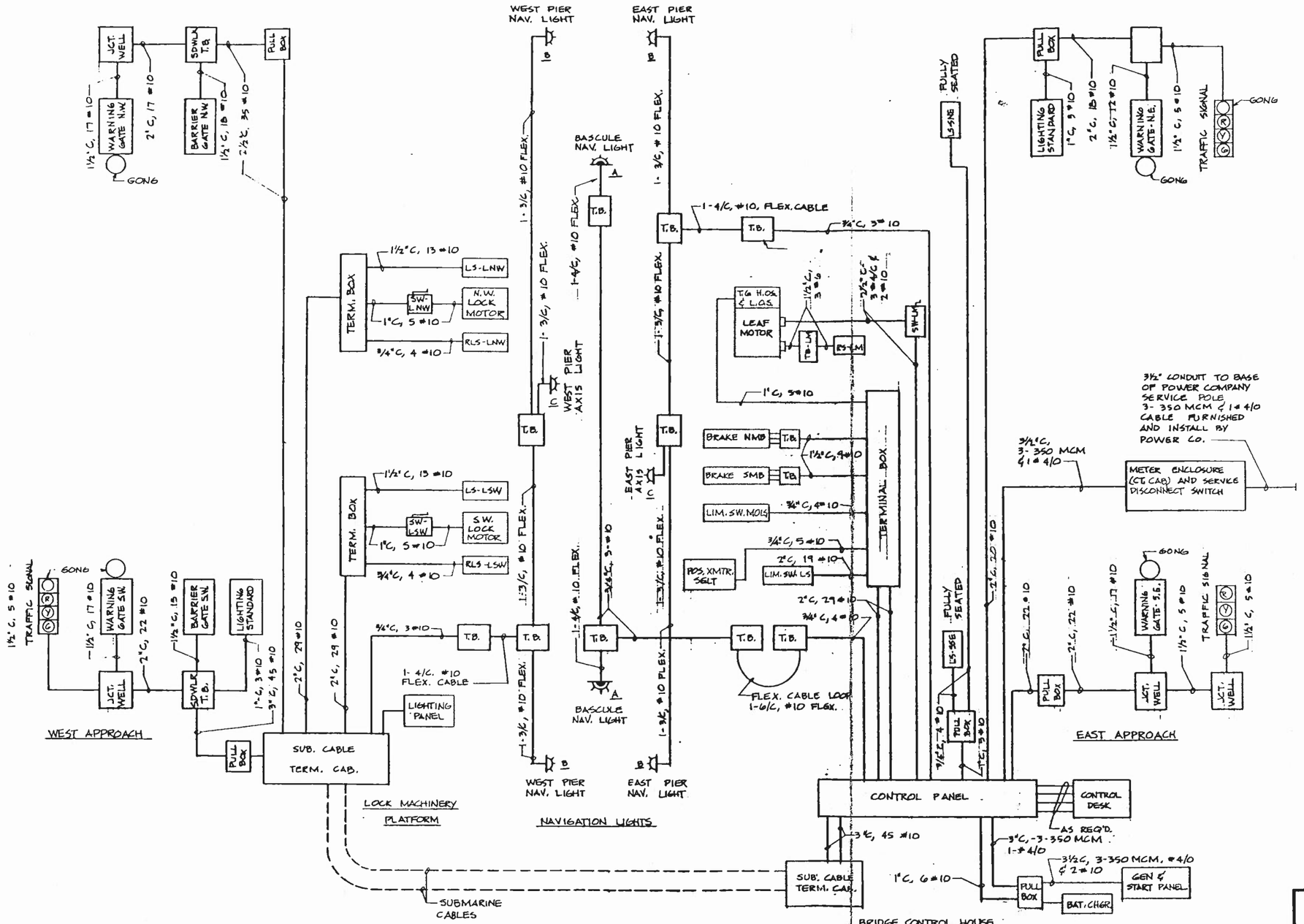
SECTION AT ELEVATION +18.0
SCALE: 3/16" = 1'-0"

Tudor Electric
Approval Sheet
Job: Rehoboth AVE BRIDGE
Date: 12-2-85
Item: REFERENCE DRWG

MEMBER E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1066 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE LIGHTING LAYOUT AT BASCULE PIER	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E30
	DATE 7/25/85		

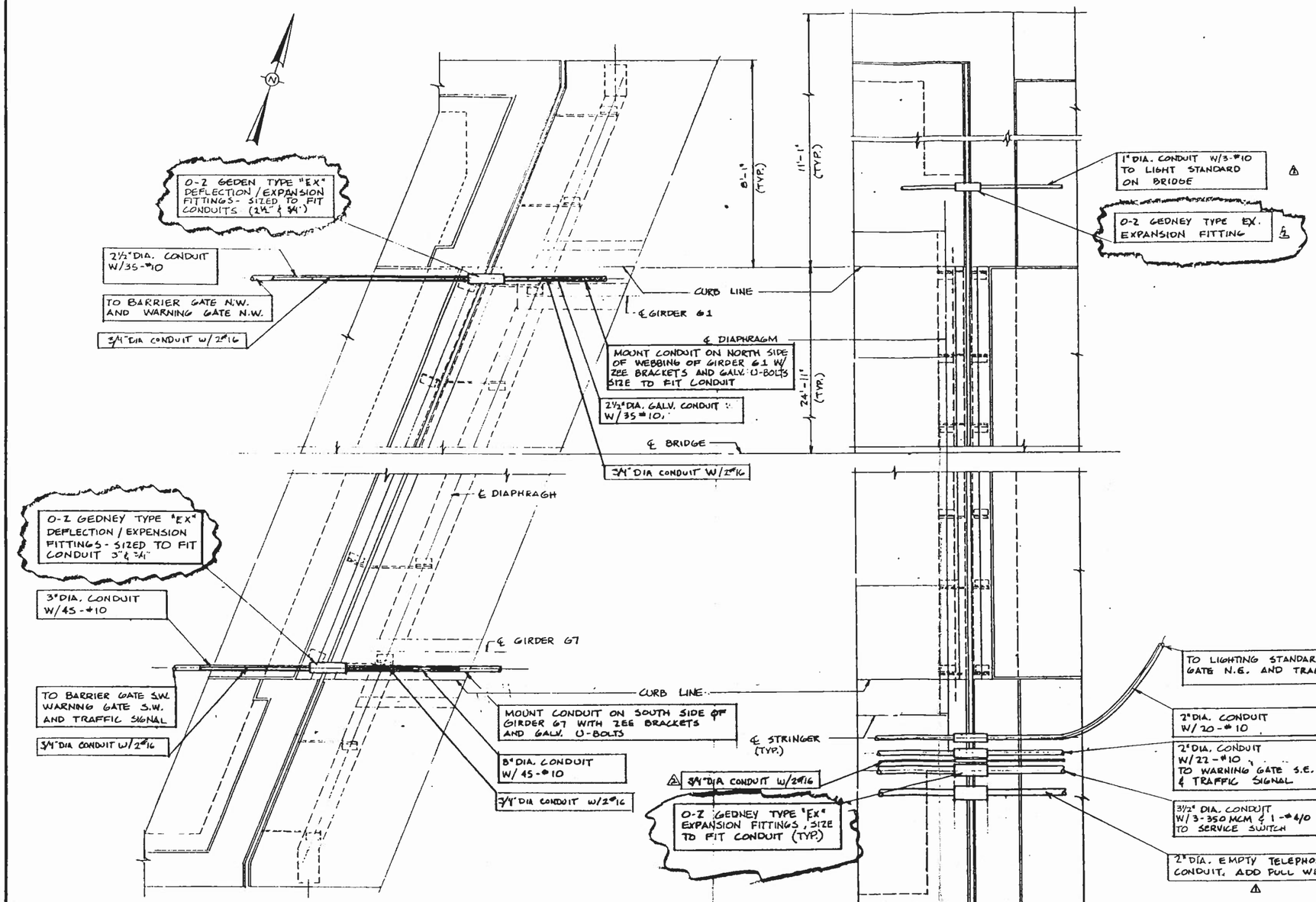


LIST OF SYMBOLS

2¾"C, 3#10	RIGID CONDUIT, THE NUMBER AND SIZES OF CABLES AND SIZE OF CONDUIT ARE NOTED.
1C-#1C FLEX.	ONE FLEXIBLE CABLE, THE NUMBER AND SIZE OF CONDUCTORS ARE NOTED.
T.B.	TERMINAL BOX
	DISCONNECT SWITCH
A	180 DEGREE RED/GREEN BASCULE LEAF NAVIGATION LIGHT
B	180 DEGREE RED PIER NAVIGATION LIGHT
C	180 DEGREE AXIS NAVIGATION LIGHT

MEMBER N.E.C.A.
Residential Commercial Industrial
TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE
DRAWN BY: JEL	TITLE: SCHEMATIC CONDUIT DIAGRAM
SCALE: NO SCALE	OWNER
DATE	DRAWING NO. E32



WEST ABUTMENT

DECK OVER COUNTERWEIGHT

EXPANSION JOINT PLAN
~NO SCALE~

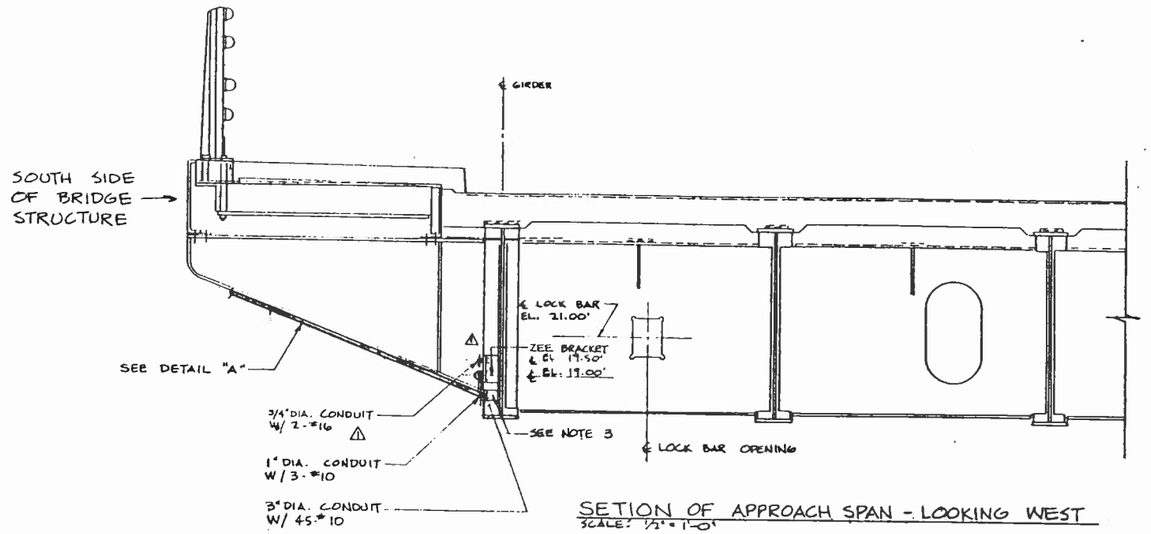
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date ~~10/9/85~~ 11/15/85
Item Expansion Joint Details

MEMBER E.C.A.D.
Residential Commercial Industrial

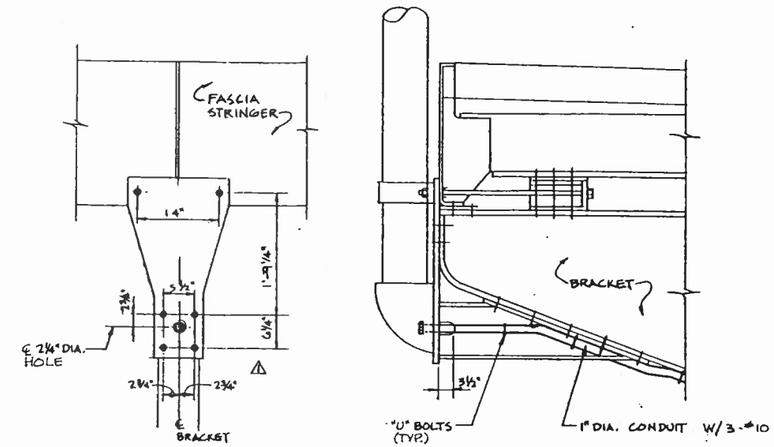
TUDOR ELECTRIC, Inc.
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

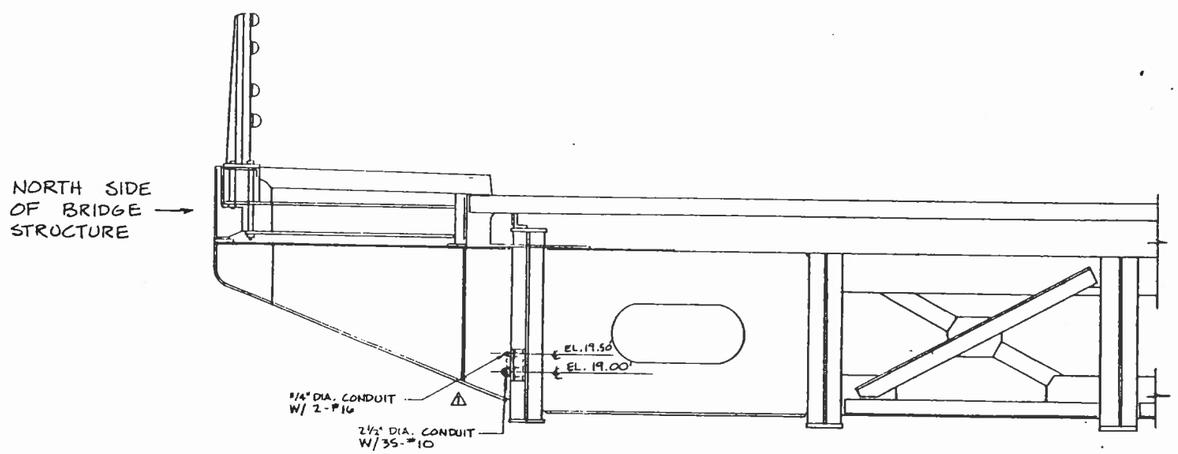
REVISIONS	PROJECT	
1 10/17/85 ADD TELE. CONDUIT	REHOBOTH AVENUE BRIDGE	
1 11/11/85	DRAWN BY: JEL	TITLE: EXPENSION JOINT DETAILS
	SCALE: NONE	OWNER: STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS
	DATE: 7/11/85	DRAWING NO. E33



SETION OF APPROACH SPAN - LOOKING WEST
SCALE: 1/2" = 1'-0"



DETAIL "A" - LIGHT POST SUPPORT
SCALE: 1" = 1'-0"



SECTION OF APPROACH SPAN - LOOKING EAST
SCALE: 1/2" = 1'-0"

Tudor Electric
Approval Sheet
Job: Rehoboth Ave Bridge
Date: ~~10/1/85~~ 11/15/85
Item: Approach Span Structural Details

CONDUIT LAYOUT OF BRIDGE SPAN (FIXED) FROM WEST ABUTMENT TO REST PIER

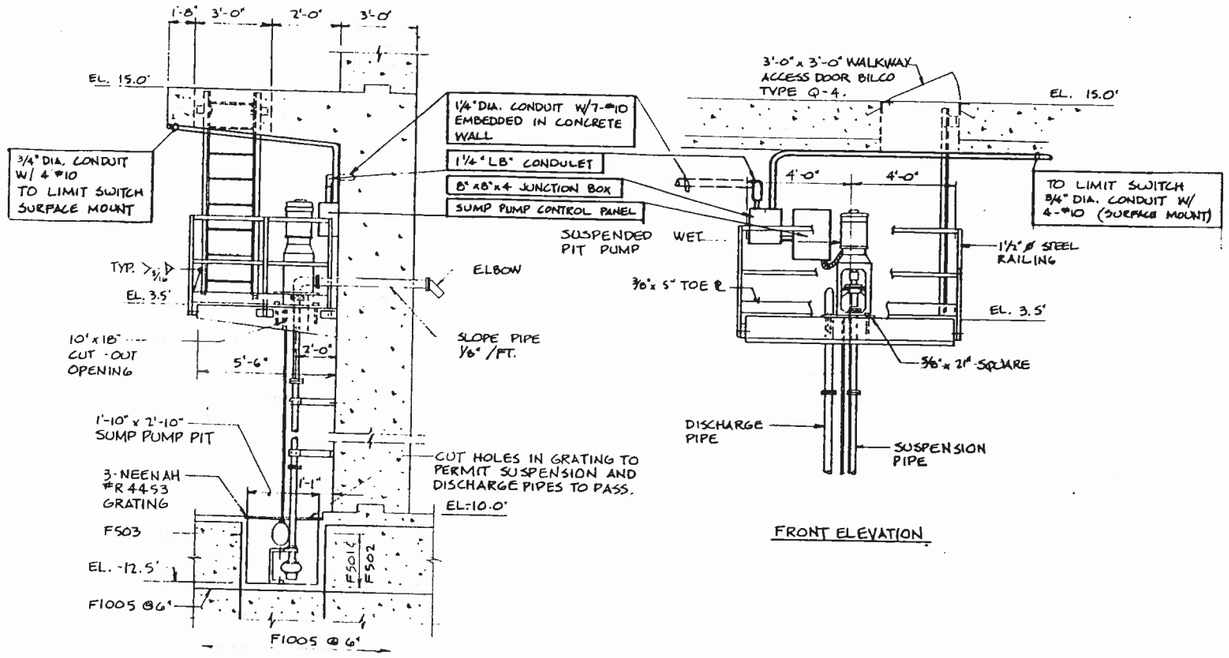
NOTES.

1. CONDUITS TO BE MOUNTED ON WEB OF GIRDER WITH ZEE BRACKET (TYP. FOR ALL CONDUITS RUNNING ON WEB OF GIRDERS)
2. ~~WHERE CONDUITS CANNOT PASS THRU DIAPHRAMS IN STRUCTURE FIELD DRILL WITH HOLE SIZES APPROX. 3/4" LARGER THAN CONDUIT DIA. IN DIAPHRAMS, ONLY TO ALLOW PASSAGE OF CONDUIT - EXAMPLE. 2" DIA. CONDUIT - 2 3/4" HOLE.~~ △
3. ZEE BRACKET TO ACCOMODATE ALL 3/4", 1", & 3" CONDUITS

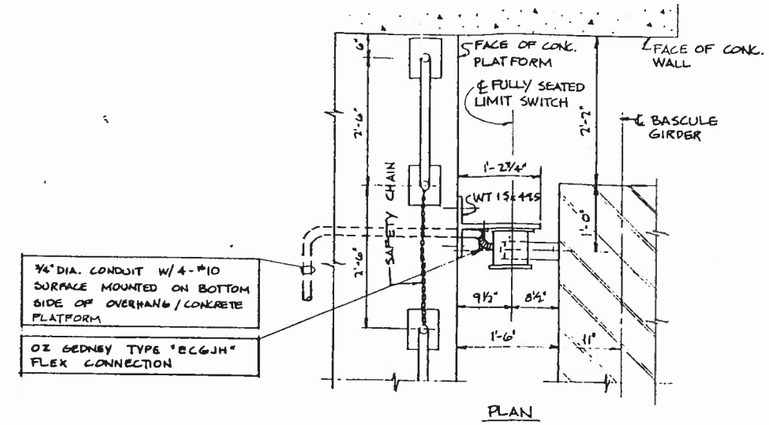
MEMBER I.C.A.D.
Residential Commercial Industrial

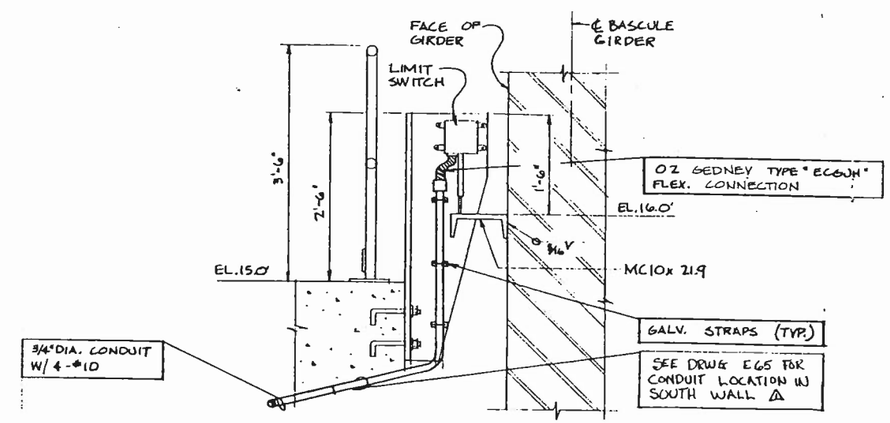
TUDOR ELECTRIC, Inc.
Electrical Contractor
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
△ 11/9/85	DRAWN BY: JEL	TITLE: APPROACH SPAN STRUCTURAL DETAILS	
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAY	DRAWING NO. E34
	DATE: 7/7/85		



SUMP PUMP DETAIL
N.T.S.





ELEVATION
- TYPICAL -
FULLY SEATED LIMIT SWITCH BRACKET DETAIL
SCALE: 1" = 1'-0"

Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date ~~10/9/85~~ 10-25-85
Item Bascule Pier Misc Details II

NOTES:

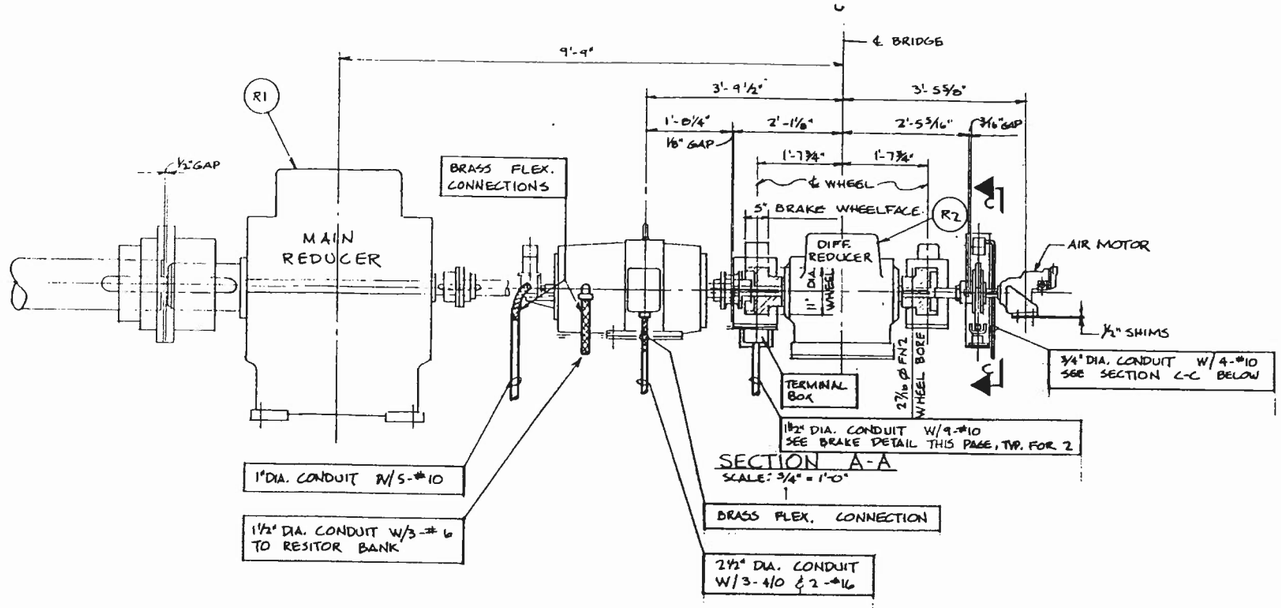
1. ON NORTH WALL - 3/4" DIA. CONDUIT RUNS TO JUNCTION BOX NEAR SUMP PUMP CONTROL PANEL - ON SOUTH WALL - 3/4" DIA. CONDUIT RUNS IN SLAB DIRECTLY TO LEAF CONTROL PANEL
2. WORK THIS DRAWING WITH E7.

MEMBER E.C.A.D
Residential Commercial Industrial

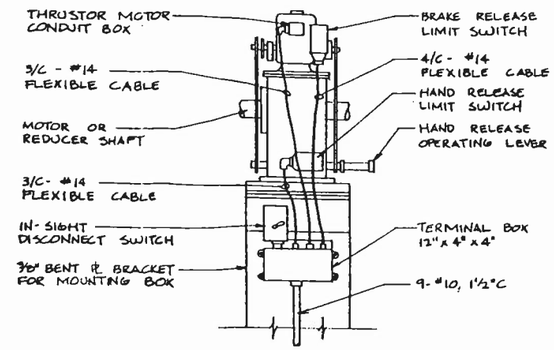
TUDOR ELECTRIC, Inc.
Electrical Contractor

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

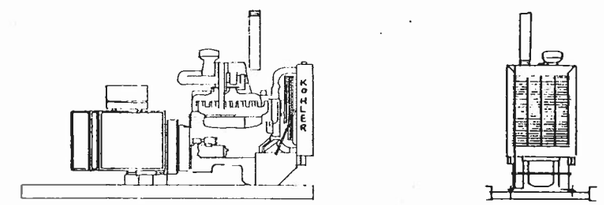
REVISIONS	PROJECT		
Δ 10-25-85	REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE BASCULE PIER MISCELLANEOUS DETAILS II	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E3S
	DATE 7/27/85		



SECTION A-A
SCALE: ¾" = 1'-0"



TYPICAL BRAKE DETAIL
NO SCALE
(2-REQUIRED).



GENERATOR DETAIL
NO SCALE

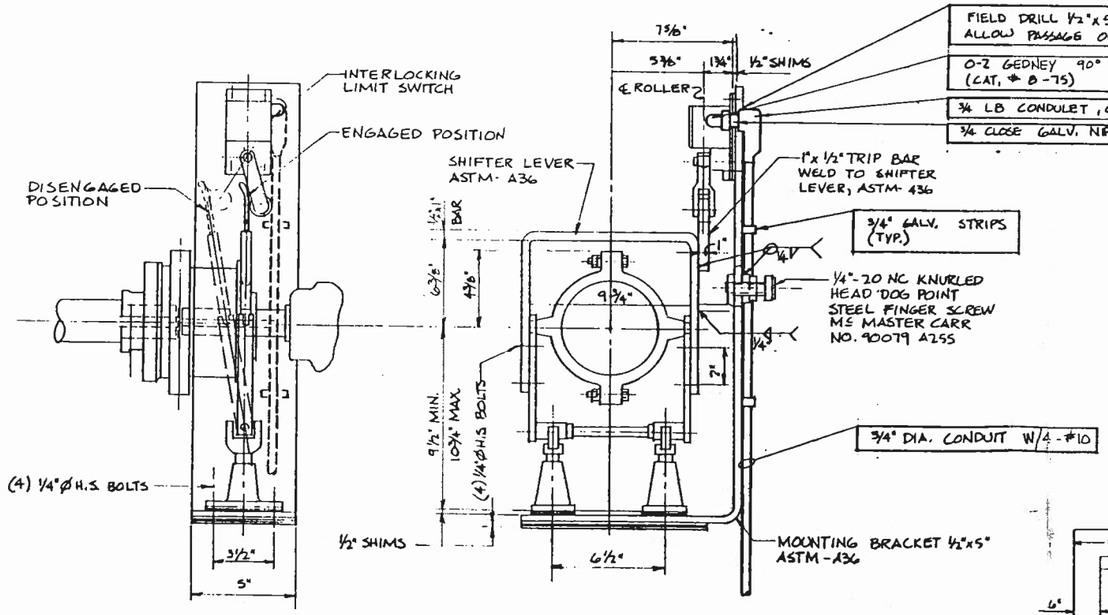
SEE DRAWINGS E5B & 5C ⚠ FOR CONDUIT STUB-UPS FOR THESE CONDUITS AND POSTION. TRANSMITTER AND LIMIT SWITCH, POSITION TRANSMITTER AND LIMIT SWITCH NOT SHOWN ON THIS DRAWING.

FIELD DRILL ½" x 5" MOUNTING BACKET TO ALLOW PASSAGE OF NIPPLE/CONDUIT

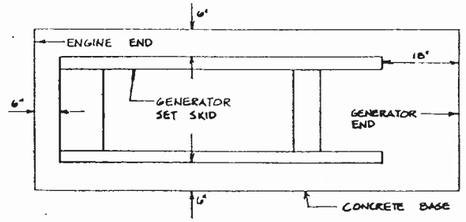
O-Z GEDNEY 90° SHORT CONDUIT ELBOX (CAT. # B-75)

¾ LB CONDULET, CAST IRON

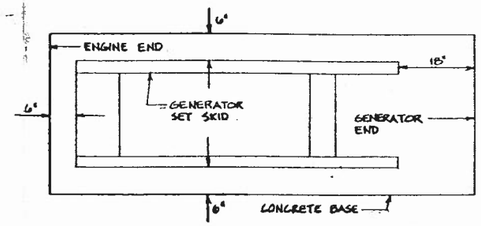
¾ CLOSE GALV. NIPPLE



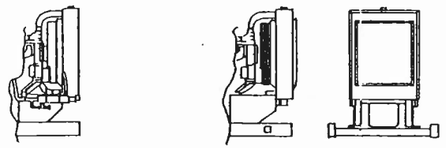
SECTION C-C
SCALE: 3" = 1'-0"



MOUNTING BASE DETAIL
NO SCALE



MOUNTING BASE DETAIL
NO SCALE



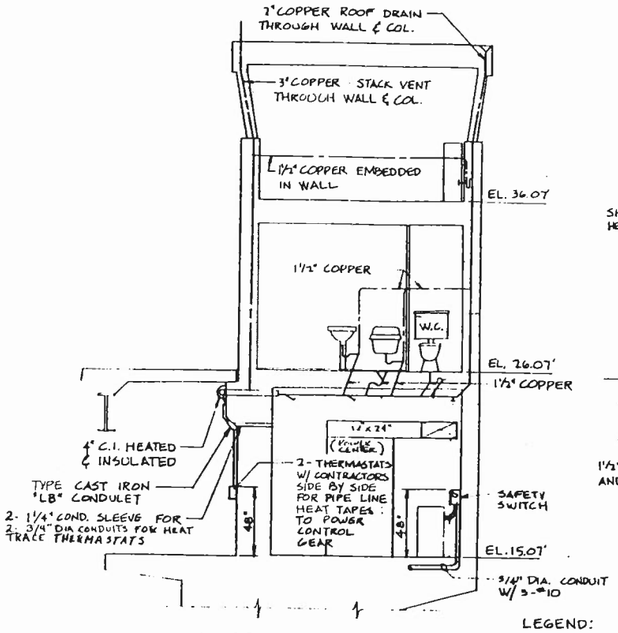
Tudor Electric
Approval Sheet
Job Rehoboth AVE Bridge
Date ~~10/16/85~~ 10-25-85
Item Conduits & Machinery

MEMBER I.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

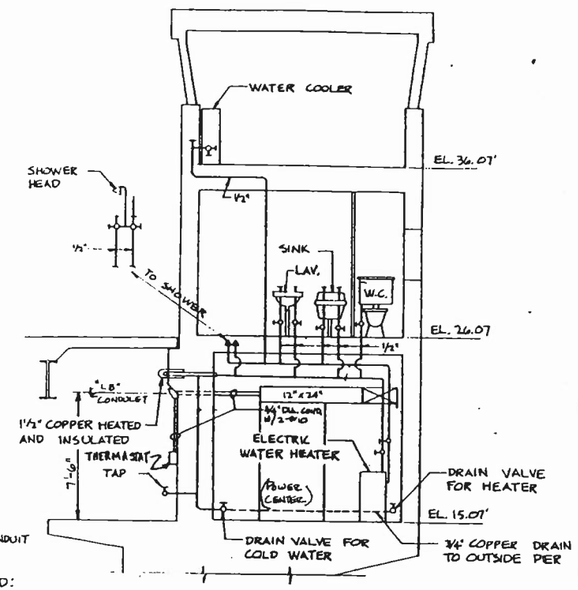
1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
⚠ 10-25-85	DRAWN BY: JEL	TITLE: OPERATING MACHINERY DETAILS	
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E36
	DATE: 7/27/85		

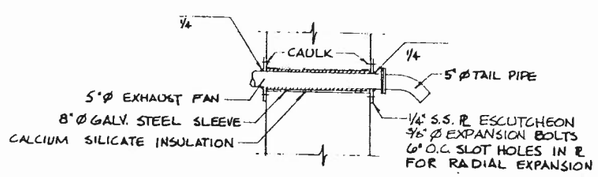


WASTE PIPING DIAGRAM
SCALE: ¼" = 1'-0"

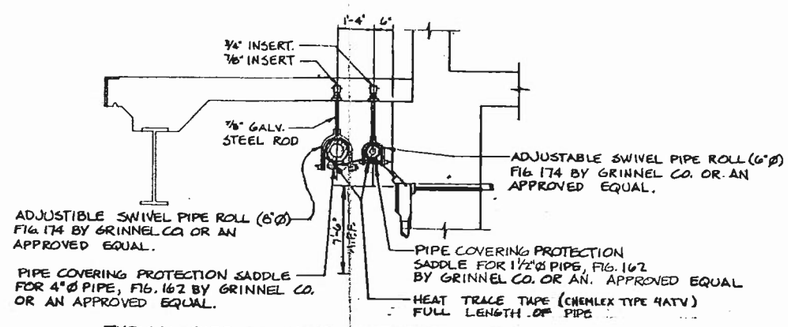
LEGEND:
——— = VENT
——— = DRAIN



WATER PIPING DIAGRAM
SCALE: ¼" = 1'-0"



EXHAUST PIPE DETAIL
AT CONTROL HOUSE SOUTH WALL
NO. SCALE



TYPICAL SUPPORT UNDER CANTILEVERED SIDEWALK
SCALE: ½" = 1'-0"

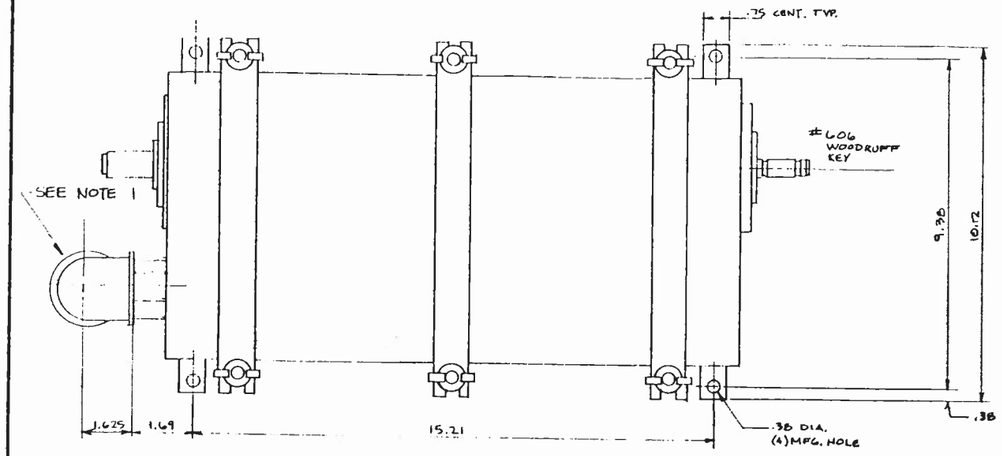
Tudor Electric
Approval Sheet
Job: Rehoboth Ave. Bridge
Date: 11/19/85
Item: HEAT TRACING

MEMBER I.C.A.D.
Residential Commercial Industrial

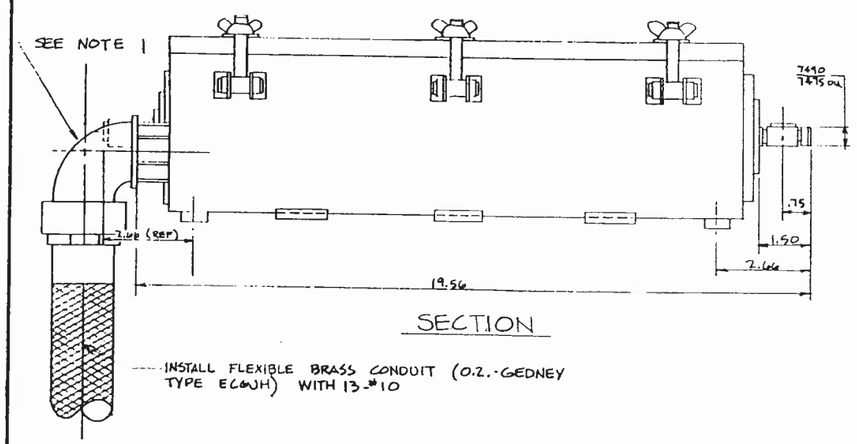
TUDOR ELECTRIC, Inc.
Electrical Contractor

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

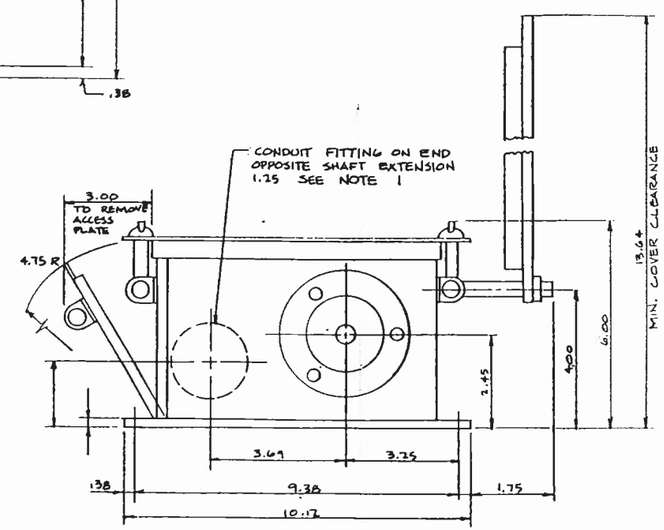
REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE	
	DRAWN BY: JEL	TITLE: CONTROL HOUSE HEAT TRACING FOR PLUMBING PIPES
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRAN DIVISION OF HIGHWAYS
	DATE: 7/30/85	DRAWING NO. E 37



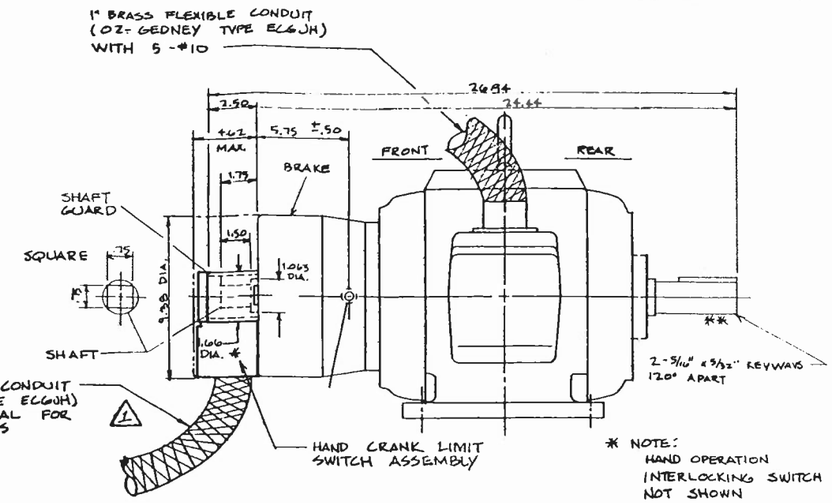
PLAN
SPAN LIMIT SWITCH



SECTION



SECTION



ELEVATION
SPAN LOCK MOTOR AND BRAKE

NOTE:
1) INSTALL AN O-Z GEDNEY 90° SHORT CONDUIT ELBOW (CAT. #8-125) ON THE 1¼" HUB OF SPAN LIMIT SWITCH, THIS SHOULD BE INSTALLED, BECAUSE OF THE LIMITED SPACE AVALIBLE TO TERMINATE CONDUIT.
2) FOR LOCATION OF SPAN LIMIT SWITCH AND SPAN LOCK MOTOR AND BRAKE (SEE DRAWING E41) REFER TO HARRIS STRUCTUAL STEEL AND EARLE INDUSTRIES INC. DRAWINGS FOR EQUIPMENT THESE ITEMS BOLT UP ~ TO.

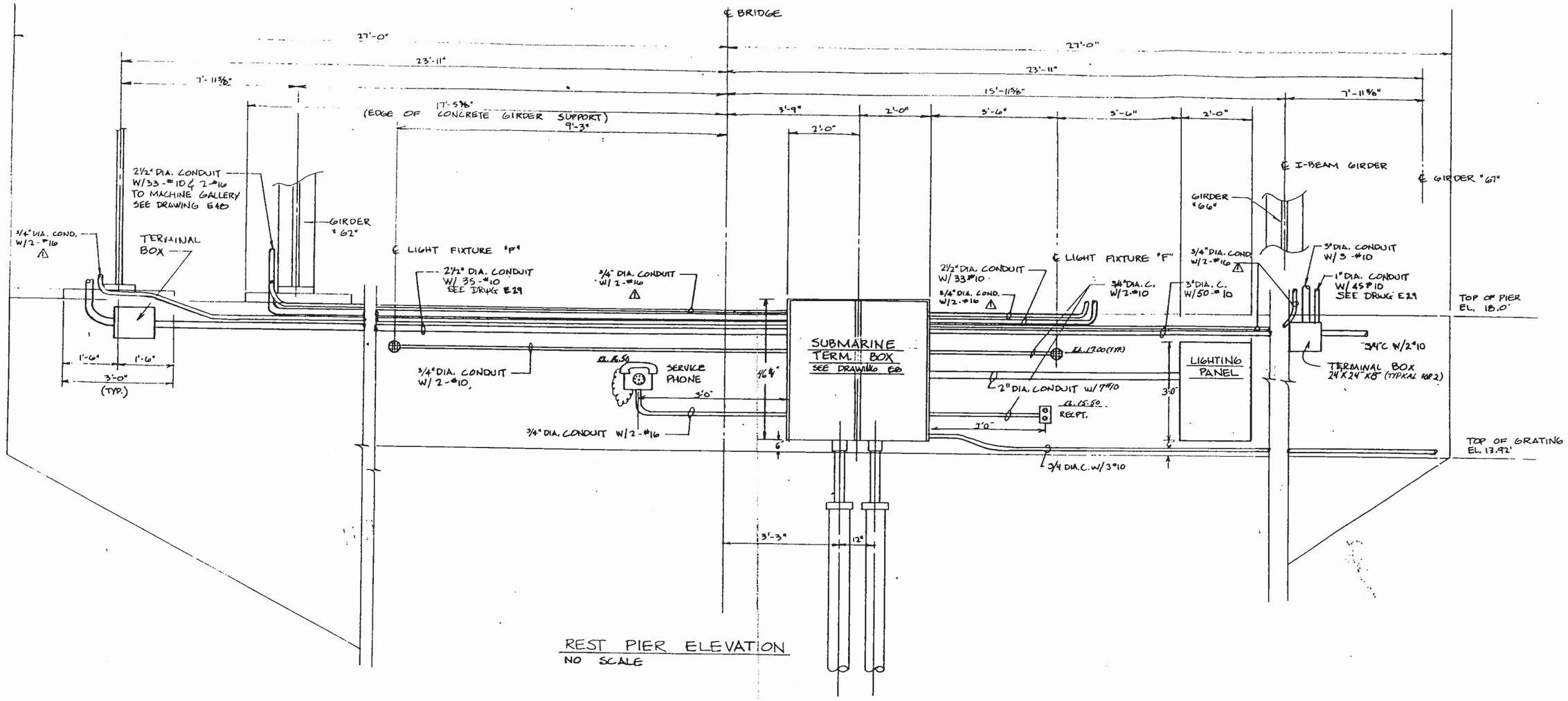
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 02/18/86
Span Lock Motor - Hand Crank Limit Switch Detail

MEMBER C.E.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
1 2-18-86 ADD LIMIT Switch	DRAWN BY: JEL	TITLE SPAN LOCK MOTOR AND BRAKE AND SPAN LIMIT SWITCH	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAY	DRAWING NO. E38
	DATE 8/10/85		



REST PIER ELEVATION
NO SCALE

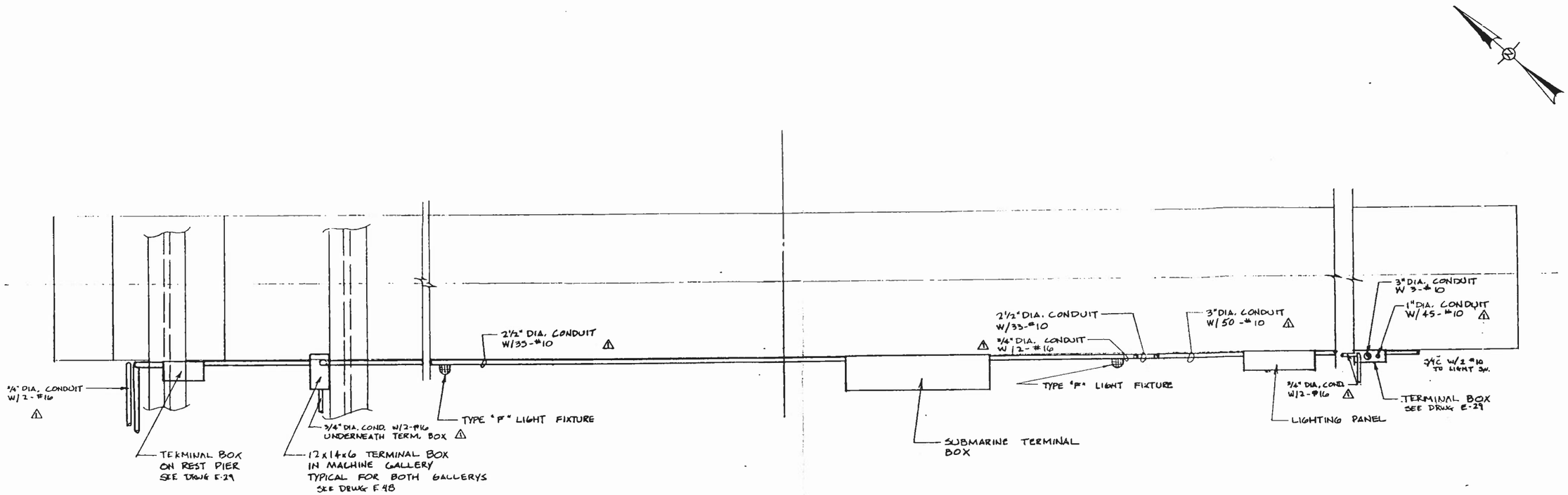
Tudor Electric
Approval Sheet
Job: Rehoboth Ave Bridge
Date: 11-15-85
Item: Rest Pier Elevation, Part A

MEMBER E.C.A.D.
Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT		
1 11/15/85	REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE REST PIER ELEVATION PART A	
	SCALE NONE	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E39
	DATE 8/8/85		



REST PIER PLAN
NO SCALE

Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 11-15-85
Item Rest Pier Plan Part B

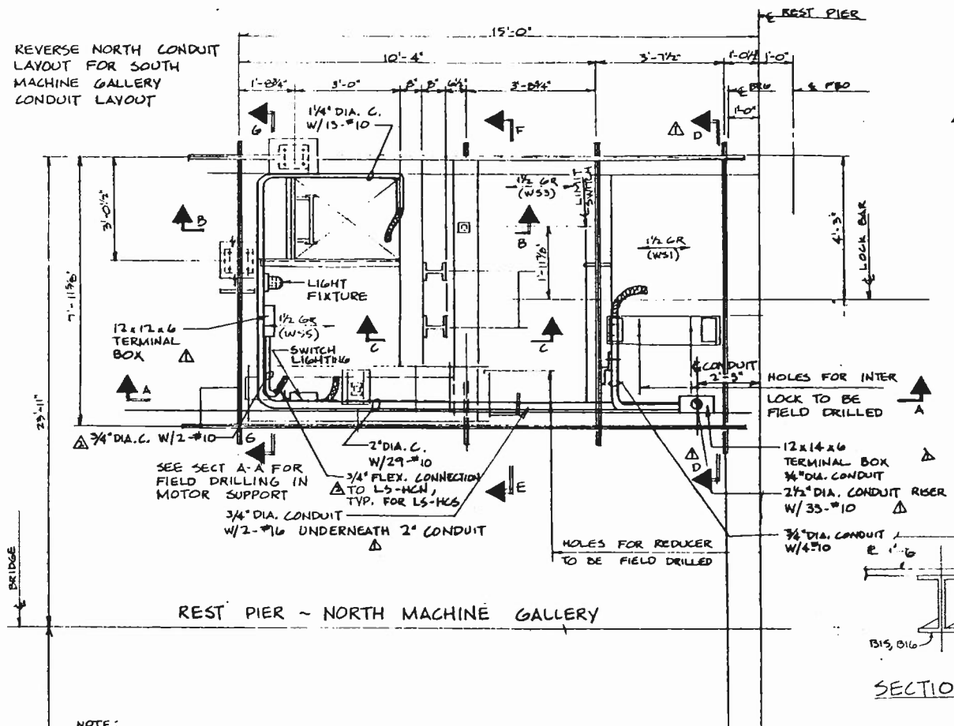
MEMBER E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

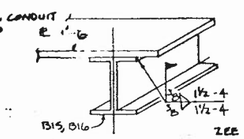
1068 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT		
1 11/15/85	REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE REST PIER PLAN PART B	
	SCALE NONE	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E40
	DATE 8/8/85		

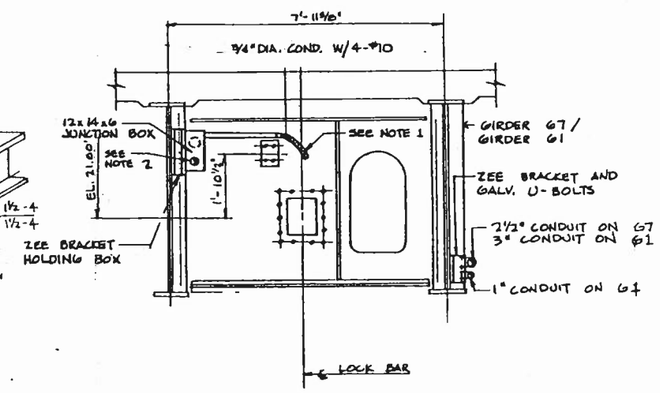
REVERSE NORTH CONDUIT LAYOUT FOR SOUTH MACHINE GALLERY CONDUIT LAYOUT



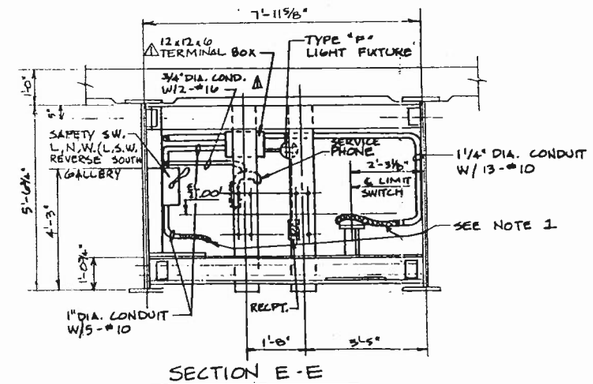
REST PIER ~ NORTH MACHINE GALLERY



SECTION "F"

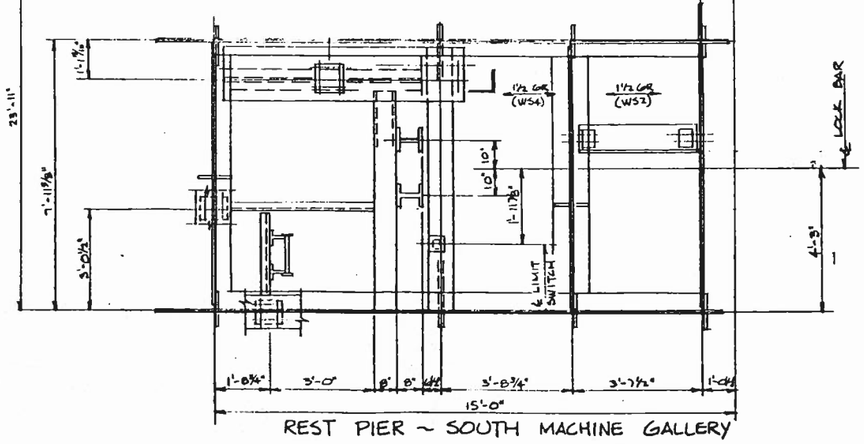


SECTION D-D



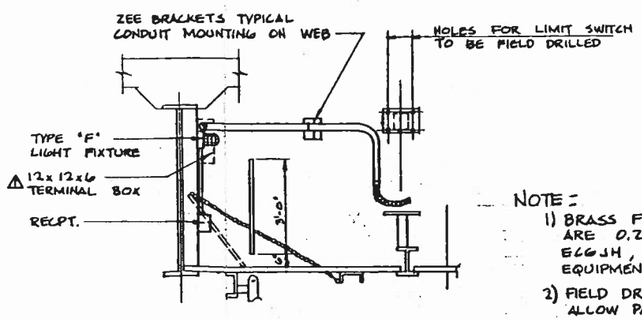
SECTION E-E

NOTE:
FRAMING AND SECTIONS ON SOUTH SIDE OF BRIDGE ARE OPPOSITE HAND FROM NORTH SIDE.

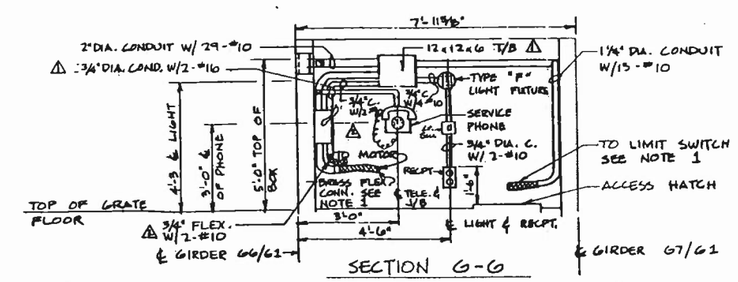


REST PIER ~ SOUTH MACHINE GALLERY

PLAN OF LOCK MACHINERY SUPPORT FRAMING
NO SCALE



SECTION B-B



SECTION G-G

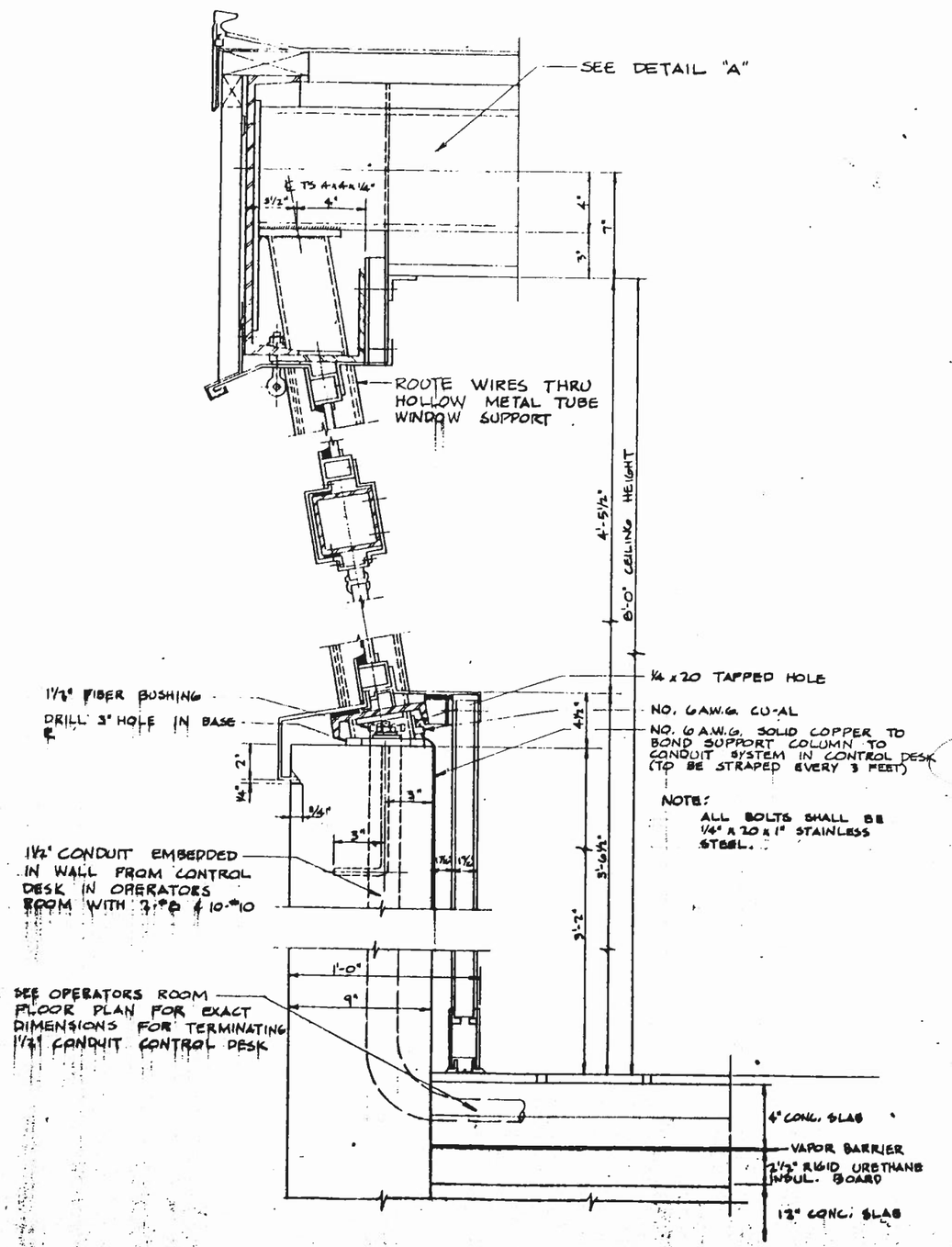
NOTE:
1) BRASS FLEX. CONNECTIONS ARE O.Z. GENDEY TYPE ELGJH, TYPICAL FOR ALL EQUIPMENT CONNECTIONS.
2) FIELD DRILL DIAPHRAGM TO ALLOW PASSAGE OF CONDUITS.

Tudor Electric
Approval Sheet
Job: Rehoboth Ave Bridge
Date: 2/5/80
Approved: Span Framing Plan, Lock Machinery Support

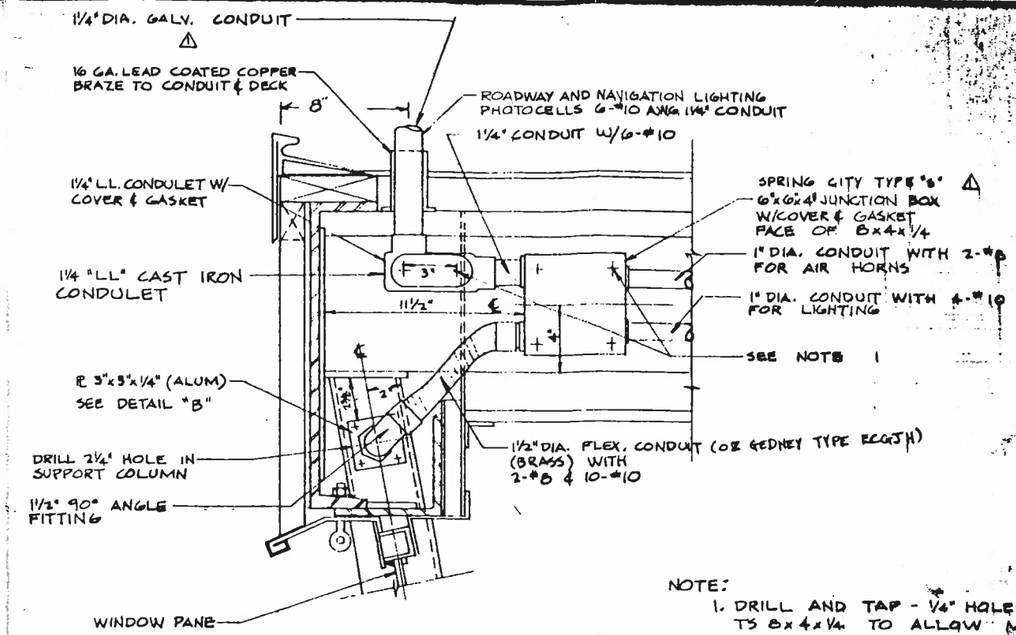
MEMBER N.E.C.A.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS		PROJECT		
1	11/9/85	REHOBOTH AVENUE BRIDGE		
2	2/5/86	DRAWN BY: JEL	TITLE: APPROACH SPAN FRAMING PLAN - LOCK MACHINERY SUPPORT	
		SCALE: NO SCALE	OWNER: STATE OF DELAWARE DEPT. OF TRANS DIVISION OF HIGHWAYS	DRAWING NO. E41
		DATE: 8/17/85		

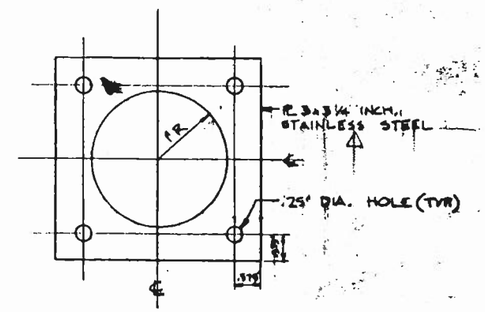


TYPICAL SECTION THRU CONTROL HOUSE
SCALE: 3" = 1'-0"

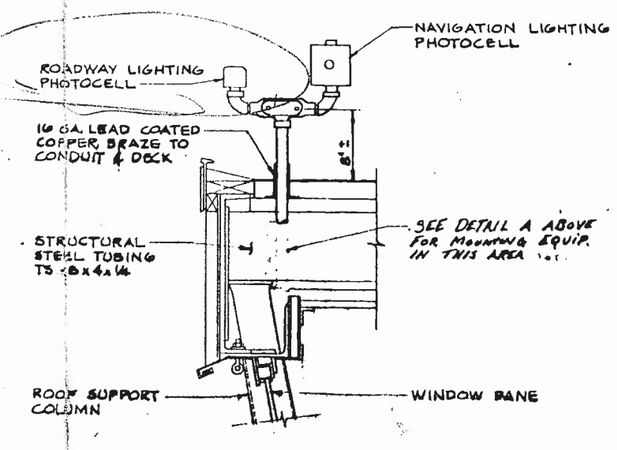


DETAIL A
SCALE: 3" = 1'-0"

NOTE:
1. DRILL AND TAP - 1/4" HOLES IN TS 8x4x1/4 TO ALLOW MOUNTING OF 6x6x4 JUNCTION BOX AND "LL" CONDULET / MOUNT. WITH STAINLESS STEEL - 1/4 x 20 BOLTS



DETAIL B
NO SCALE



PHOTOCELL MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"

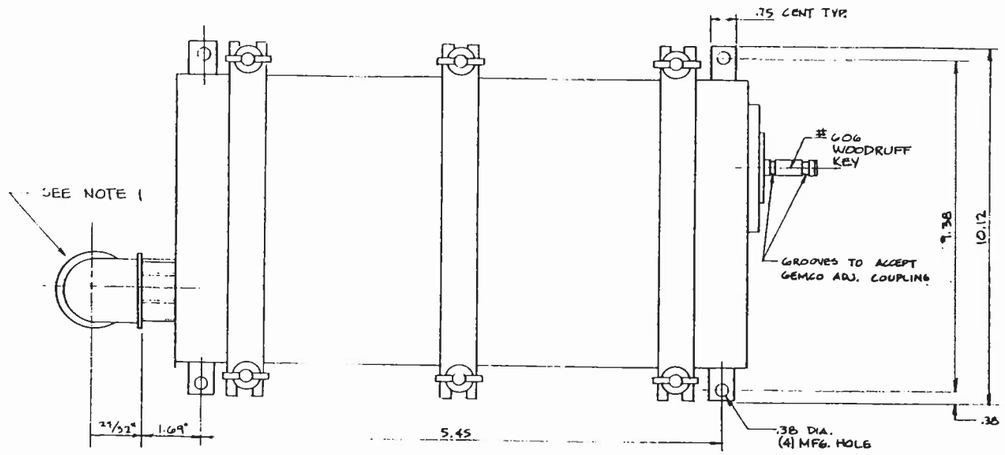
NOTE:
SEE DRAWING E63 FOR PLAN LOCATION

Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 12/19/85
Item Electric Details - Roof

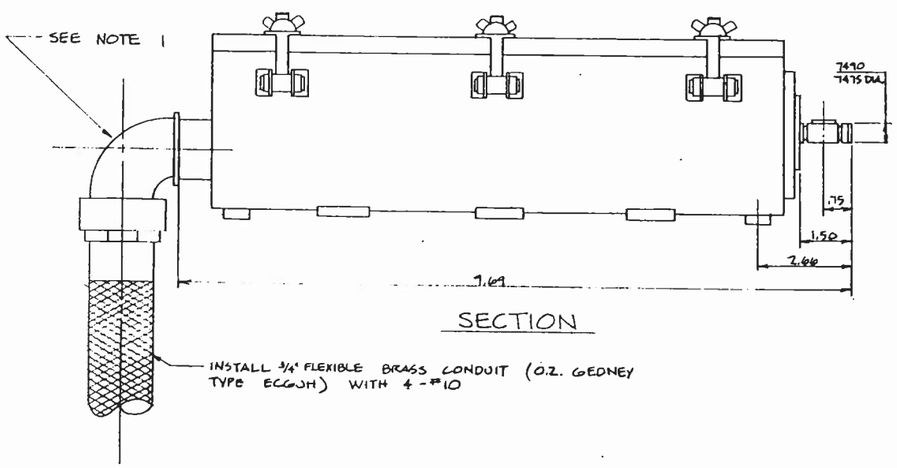
MEMBER N.E.C.A.

TUDOR ELECTRIC, Inc.
Electrical Contractors
1006 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1466

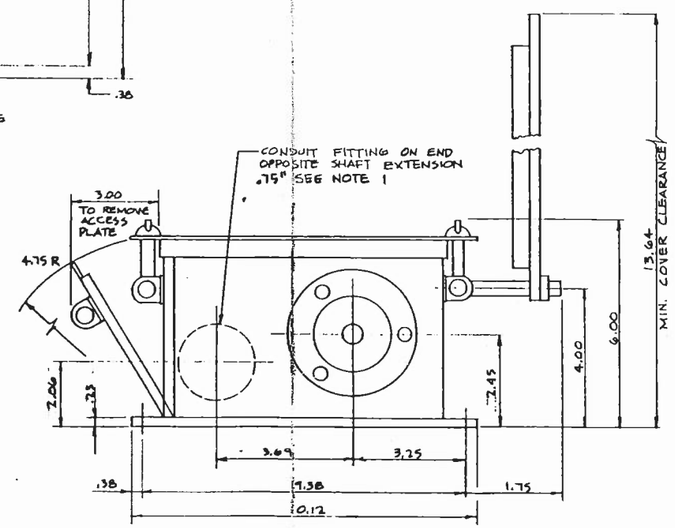
REVISIONS	PROJECT	
12/14/85	REHOBOTH AVENUE BRIDGE	
	DRAWN BY: JEL	TITLE: ELECTRIC DETAILS/ROOF
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS
	DATE: 9/5/85	DRAWING NO. E-4



PLAN



SECTION



SECTION

NOTES:

1) INSTALL AN O-Z GEDNEY 90° SHORT CONDUIT ELBOW (CAT. # B-75) ON THE 3/4" HUB OF SPAN LIMIT SWITCH, THIS SHOULD BE INSTALLED, BECAUSE OF THE LIMITED SPACE AVALIBLE TO TERMINATE CONDUIT.

2) FOR LOCATION OF SPAN LIMIT SWITCH AND SPAN LOCK MOTOR AND BRAKE (SEE DRAWING E41 AND E49) REFER TO HARRIS STRUCTUAL STEEL AND EARLE INDUSTRIES INC. DRAWINGS FOR EQUIPMENT THESE ITEMS BOLT UP ~ TO.

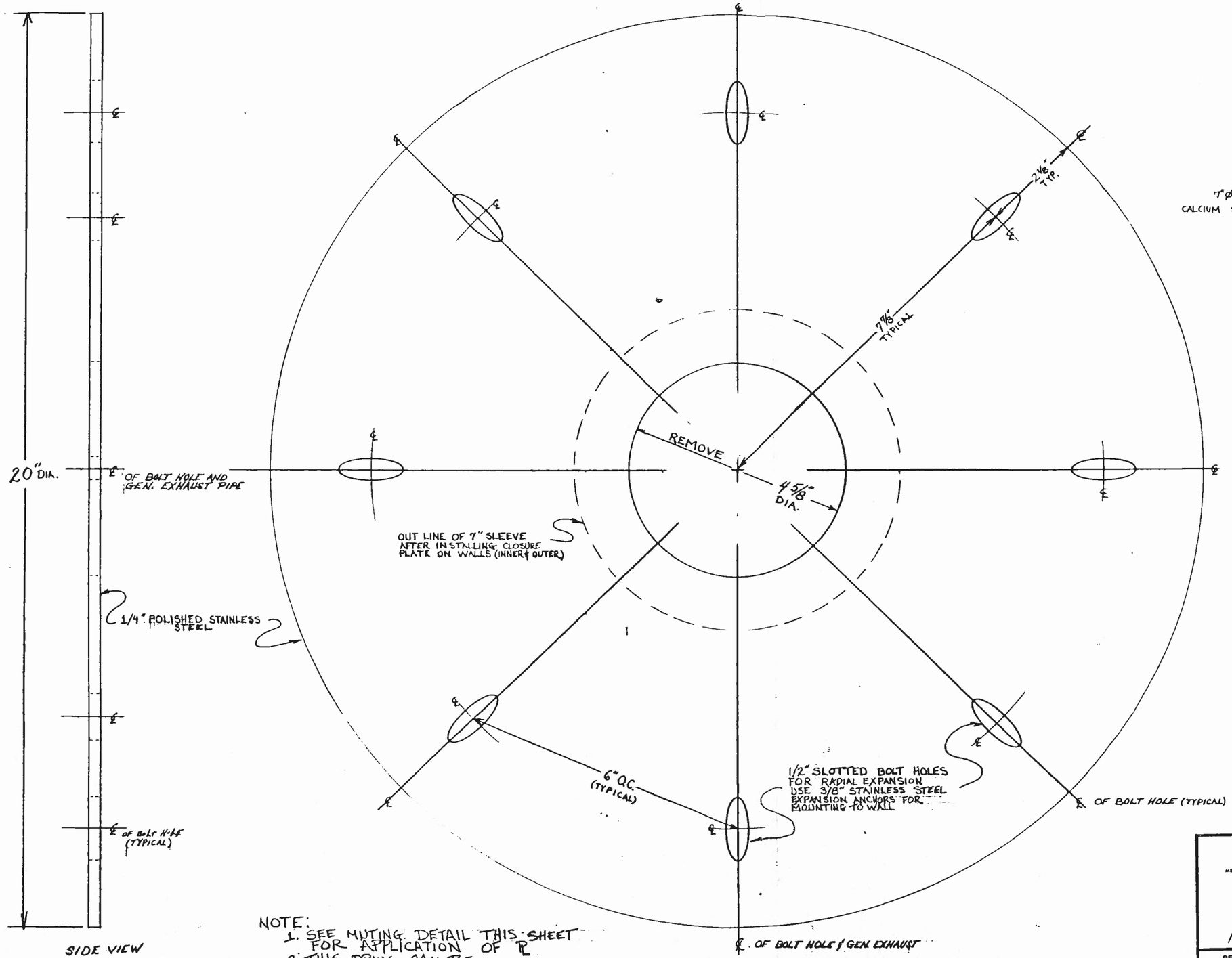
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 10/9/85
Item Span Lock Limit Switch

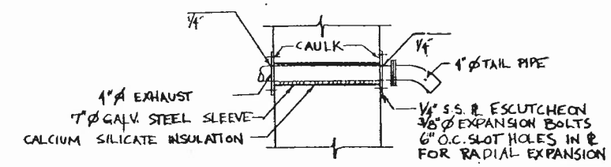
MEMBER E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE: SPAN LOCK LIMIT SWITCH	
	SCALE: NO SCALE	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E44
	DATE: 9/10/85		





EXHAUST PIPE DETAIL
AT CONTROL HOUSE SOUTH WALL
NO SCALE

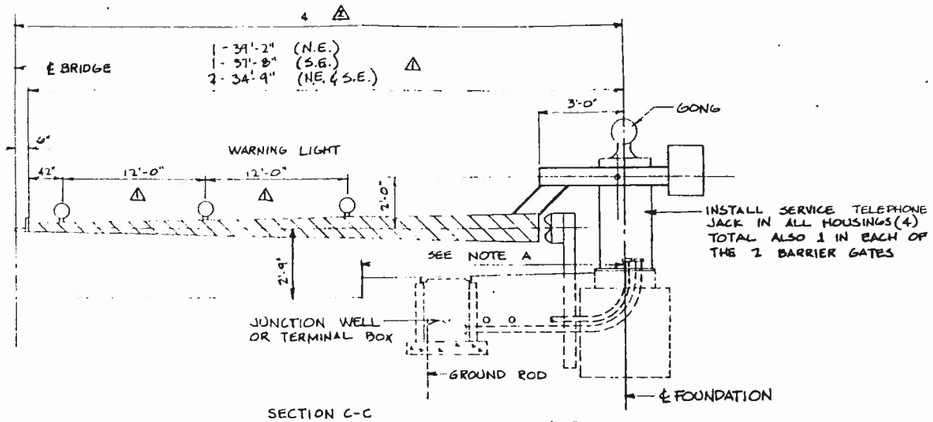
NOTE:
1. SEE MUTING DETAIL THIS SHEET FOR APPLICATION OF ESCUTCHEON
2. THIS DRWG CAN BE USED FOR TEMPLATE

GENERATOR EXHAUST ~ WALL CLOSURE PLATE
("S.S. ESCUTCHEON")

MEMBER N.E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1066 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVE. BRIDGE		
	DRAWN BY: B.T.	TITLE GEN. EXHAST PLATE	
	SCALE FULL	OWNER STATE OF DELAWARE DEPT OF TRANS. DIV. OF HIGHWAYS	DRAWING NO. E45
	DATE 9-9-85		

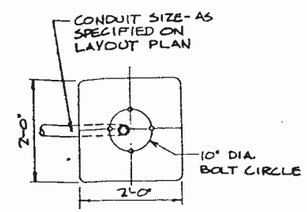


SECTION C-C

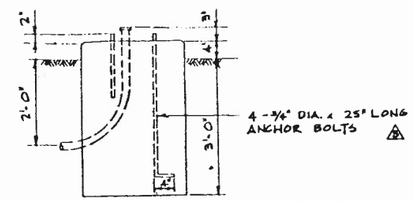
TYPICAL DETAIL AT WARNING GATE

SCALE: 3/8" = 1'-0"

NOTE:
A - 2 AT 10'-9"
1 AT 14'-9"
1 AT 13'-3"



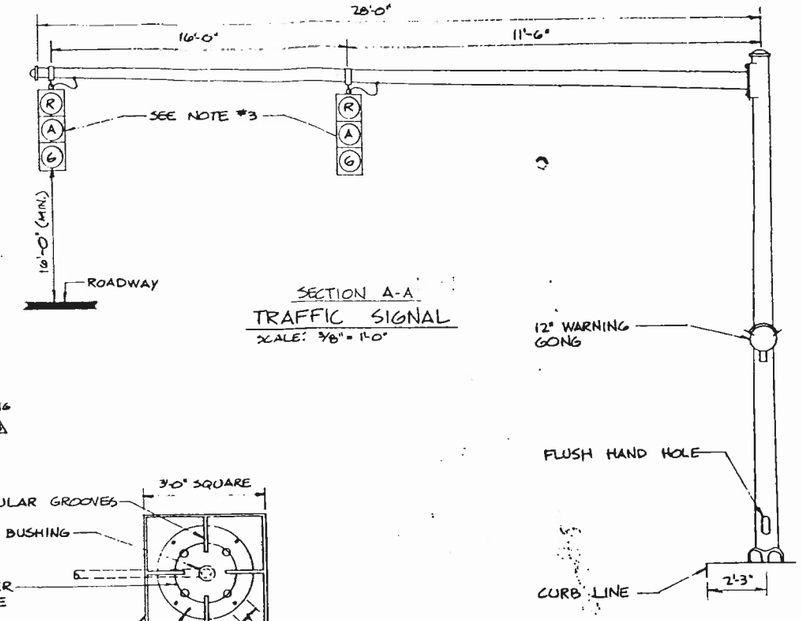
PLAN



ELEVATION

PEDESTAL BASE

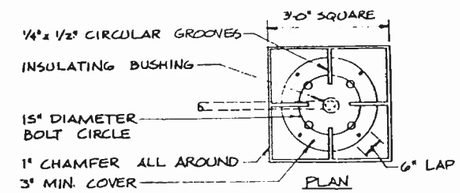
SCALE: 3/4" = 1'-0"



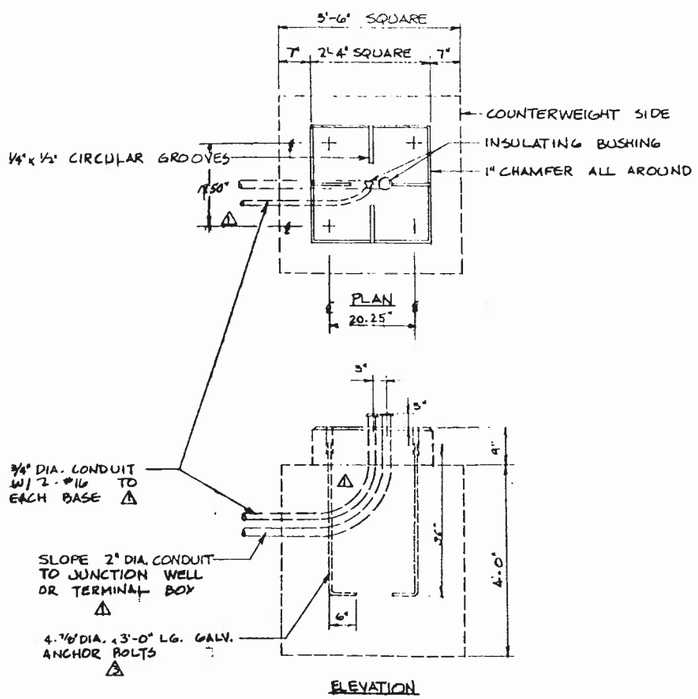
SECTION A-A

TRAFFIC SIGNAL

SCALE: 3/8" = 1'-0"



PLAN

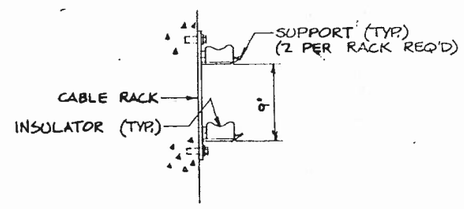


ELEVATION

WARNING GATE FOUNDATION DETAILS *

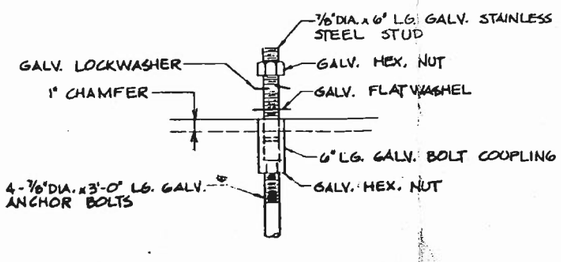
SCALE: 3/4" = 1'-0"

* (S.W., N.W. & SE. GATES)



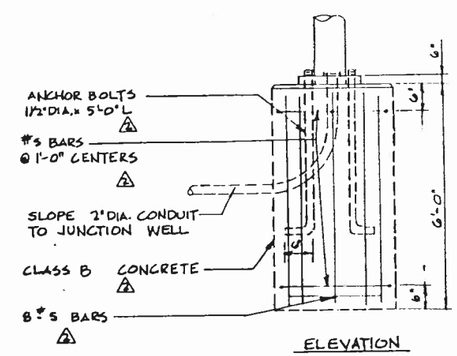
TYPICAL CABLE RACK ASSEMBLY FOR STANDARD JUNCTION WELLS

NO SCALE



GATE ANCHOR BOLT ASSEMBLY DETAIL

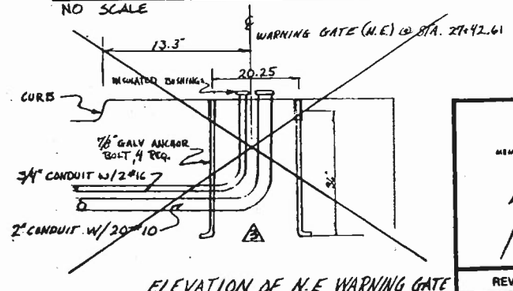
NO SCALE



ELEVATION

TRAFFIC SIGNAL POLE FOUNDATION DETAILS

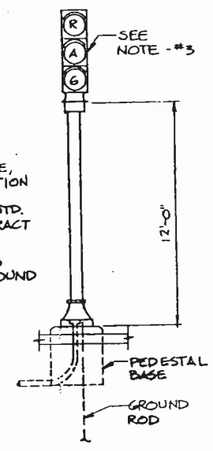
NO SCALE



ELEVATION OF N.E WARNING GATE FOUNDATION

NOTE: 1. FOR PLAN VIEW OF ANCHOR BOLT ARRANGEMENT, REFER TO WARNING GATE FOUNDATION DETAILS FOR SW, NW. & SE. GATES

2. SEE DRAWING E7



NOTES:

1. FOR PEDESTAL BASE, SIGNAL POLE FOUNDATION & CONCRETE WELL CONSTRUCTION, SEE STD. SHEET T-2 AND CONTRACT SPEC'S.

2. BOND GATE HOUSING AND CONDUITS TO GROUND ROD IN ADJACENT JUNCTION WELL.

3. ALL TRAFFIC SIGNAL HEADS FURNISHED AND INSTALLED BY DELAWARE D.O.T.

SECTION B-B

TYPICAL DETAIL AT TRAFFIC SIGNAL

SCALE: 3/8" = 1'-0"

TOP OF WARNING GATE FOUNDATION S.W. SHOULD BE AT THE SAME TOP ELEVAION OF S.E. WARNING GATE FOUNDATION, ALSO WARNING GATES. NE. & SE. SHOULD HAVE THE SAME FINISHED TOP ELEVATIONS

Tudor Electric
Approval Sheet
Job Rehoboth Ave Corridor 12-5-05
Date 11/7/05 AS BUILTS
Checked By JL

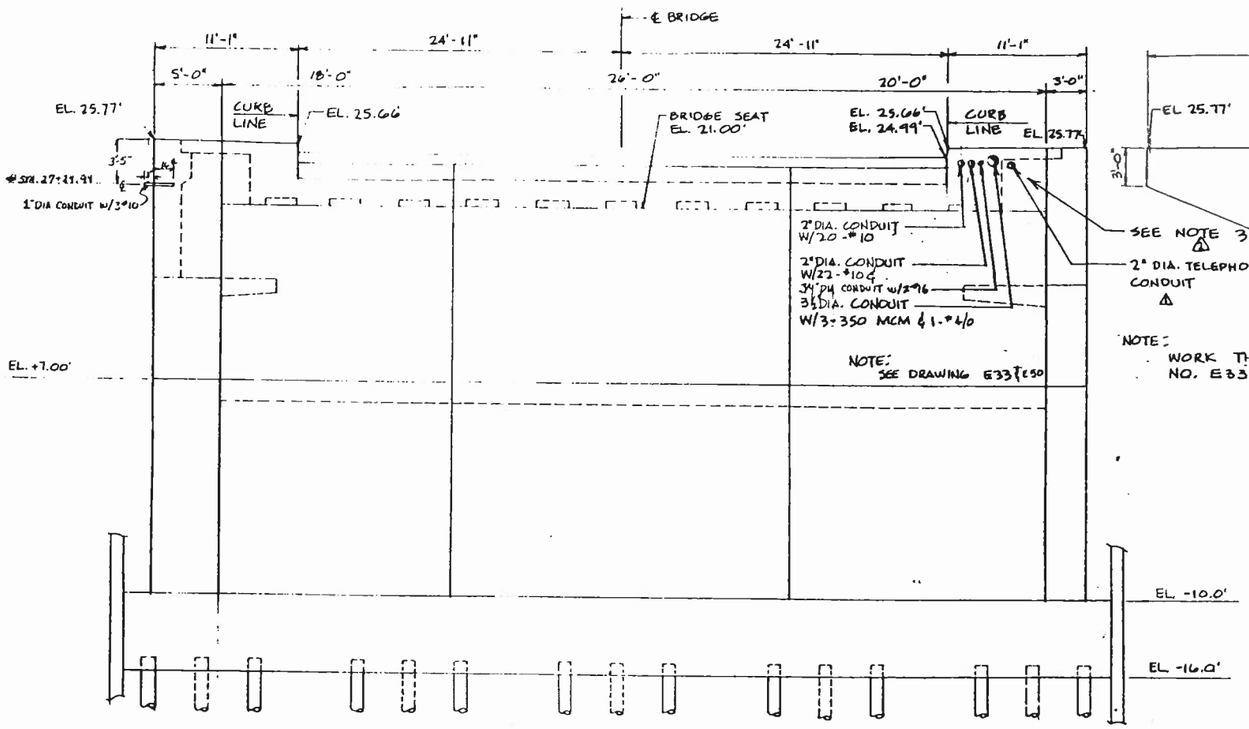
MEMBER I.E.A.O.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

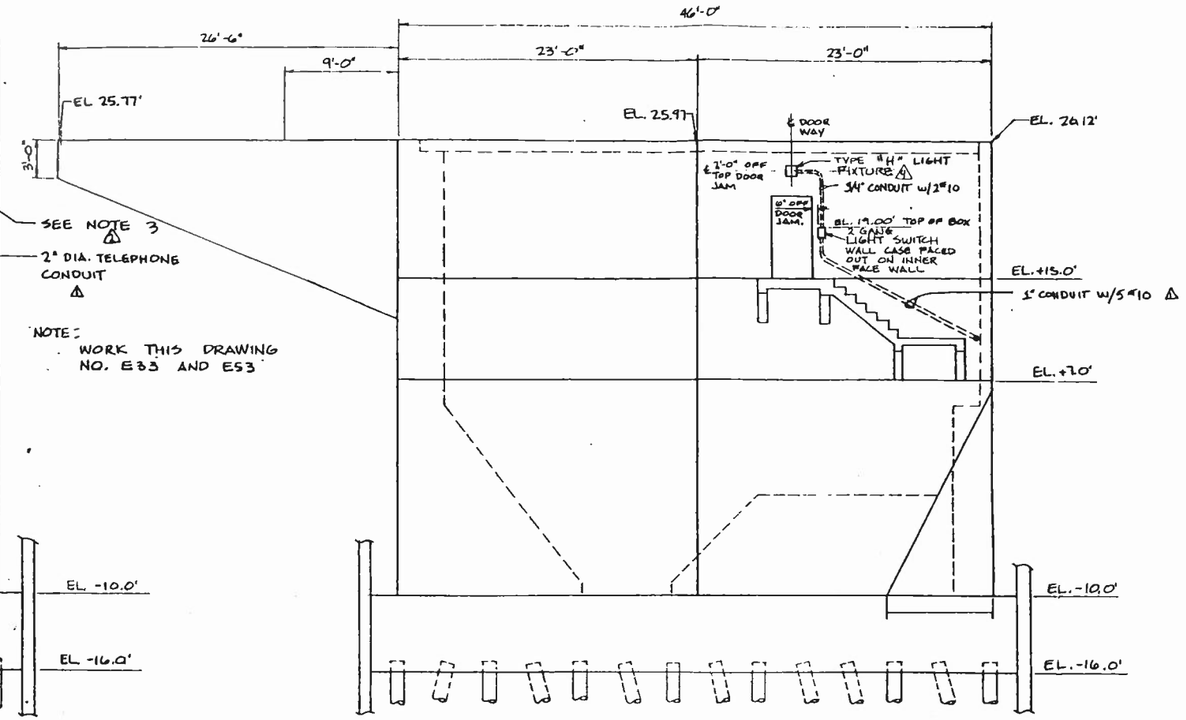
1068 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS		
1	11/10/05	
2	12/16/05	
3	12/20/05	

PROJECT: REHOBOTH AVENUE BRIDGE			
DRAWN BY: JEL	TITLE: ELECTRICAL DETAIL II		
SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS		DRAWING NO. E46
DATE: 9/23/05			



EAST ELEVATION
SCALE: 3/16" = 1'-0"



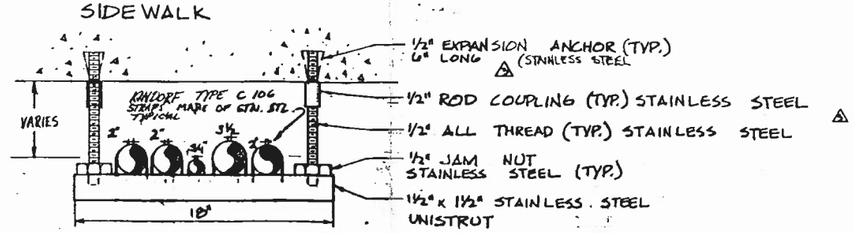
NORTH ELEVATION
SCALE: 3/16" = 1'-0"

NOTE:
WORK THIS DRAWING NO. E33 AND E53

NOTES:

1. SEE DRAWING E7 AND WORK E7 WITH THIS DRAWING.
2. DOTTED LINES INDICATE EBEDDED IN CONCRETE OR ON OPPOSITE FACE WALL OF THIS ELEVATION (TYPICAL OF ALL DRAWINGS)
3. RUN CONDUIT OUT OF HEADERWALL AT EL. 24.27, RUN CONDUIT IN BASCULE LEAF, W/ SUSPENDED STAINLESS STEEL UNISTRUT SUSPENSION HANGER AT EL. 22.50' SEE DETAIL

SIDEWALK



SUSPENSION HANGER DETAIL
NO SCALE

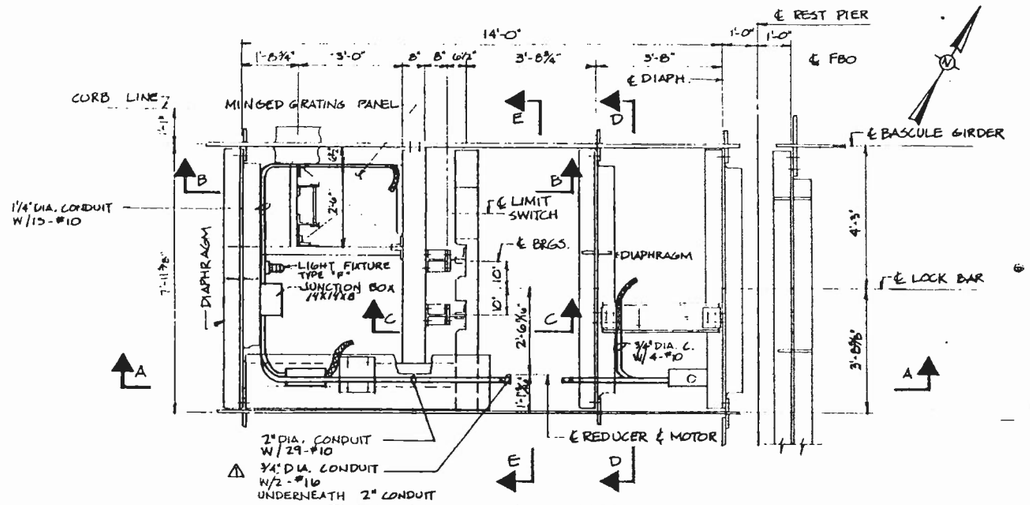
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 11-15-85
Item Bascule Pier Elevation II

MEMBER N.E.C.A.O.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

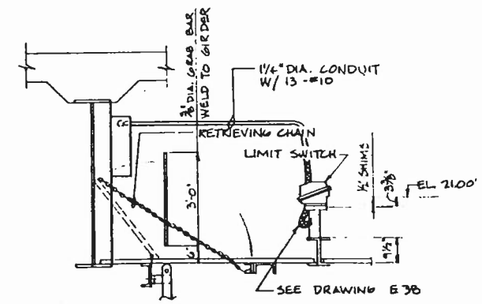
1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT		
1 10/17/85 ADD TELE. COND.	REHOBOTH AVENUE BRIDGE		
2 10/27/85 ADD. SUSP. HANG. DET.	DRAWN BY: JBL	TITLE BASCULE PIER ELEVATION II	
3 11/9/85	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E47
4 11/15/85 COMM. ADD	DATE 9/25/85		

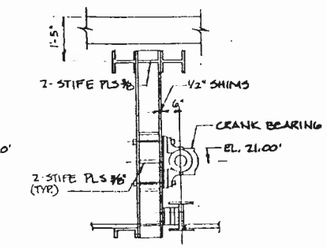


PLAN- LOCK MACHINERY SUPPORTS
SCALE: 1/2" = 1'-0"

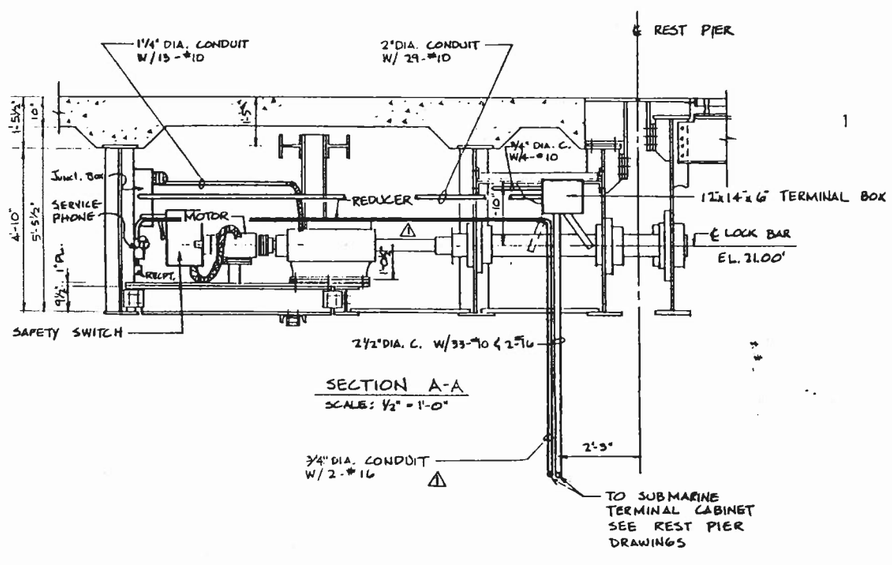
ONE PLATFORM REQ'D -AS SHOWN- NORTH SIDE OF ℄ BRIDGE
ONE PLATFORM REQ'D- OPP. HAND- SOUTH SIDE OF ℄ BRIDGE



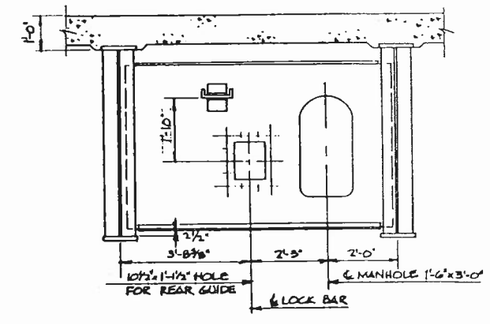
SECTION B-B
SCALE: 1/2" = 1'-0"



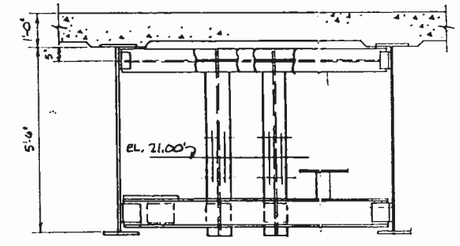
SECTION C-C
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION D-D
SCALE: 1/2" = 1'-0"



SECTION E-E
SCALE: 1/2" = 1'-0"

Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 10/8/85
Item Lock Machinery Supports

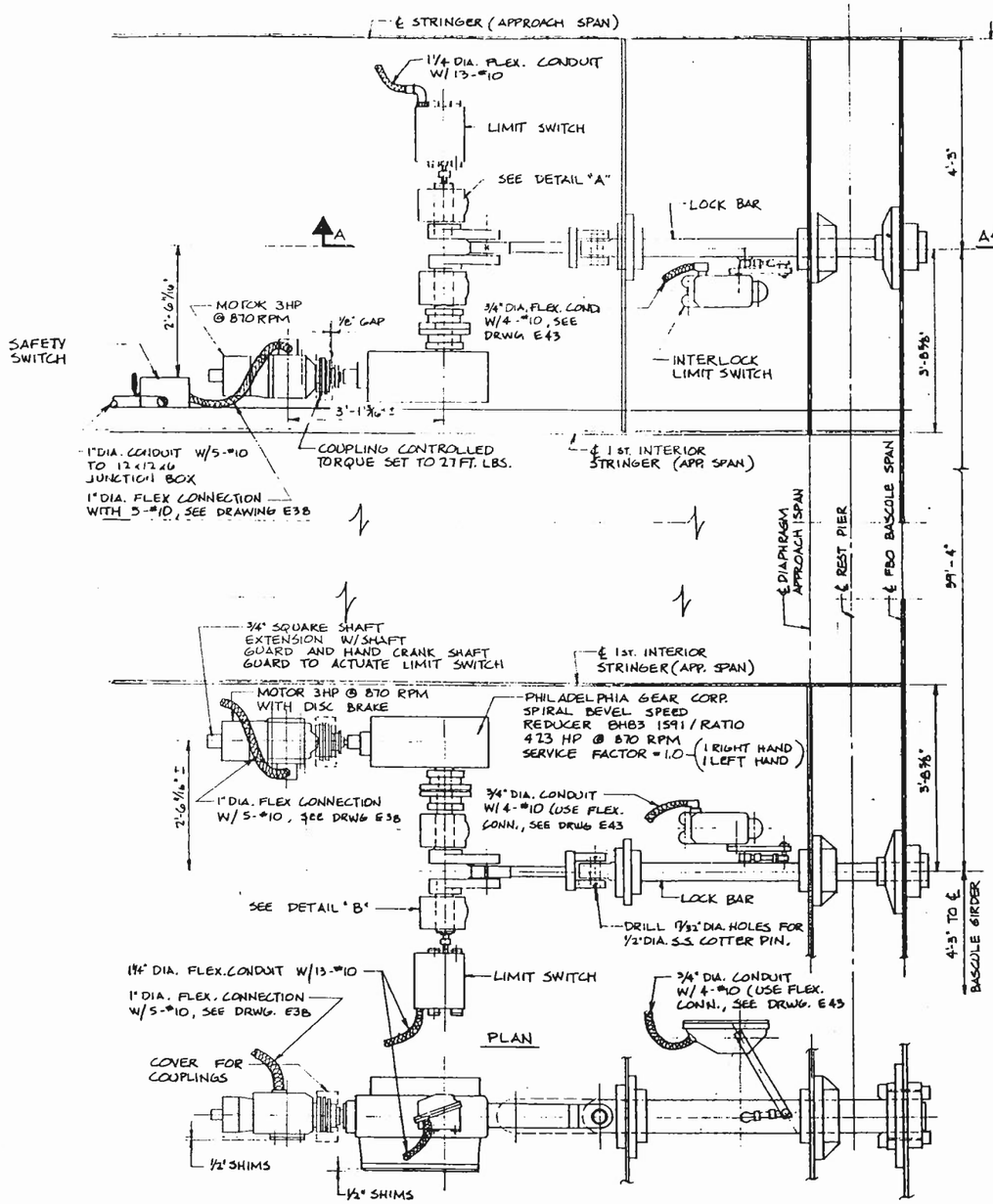
NOTE:
WORK THIS DRAWING WITH E41.

MEMBER E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

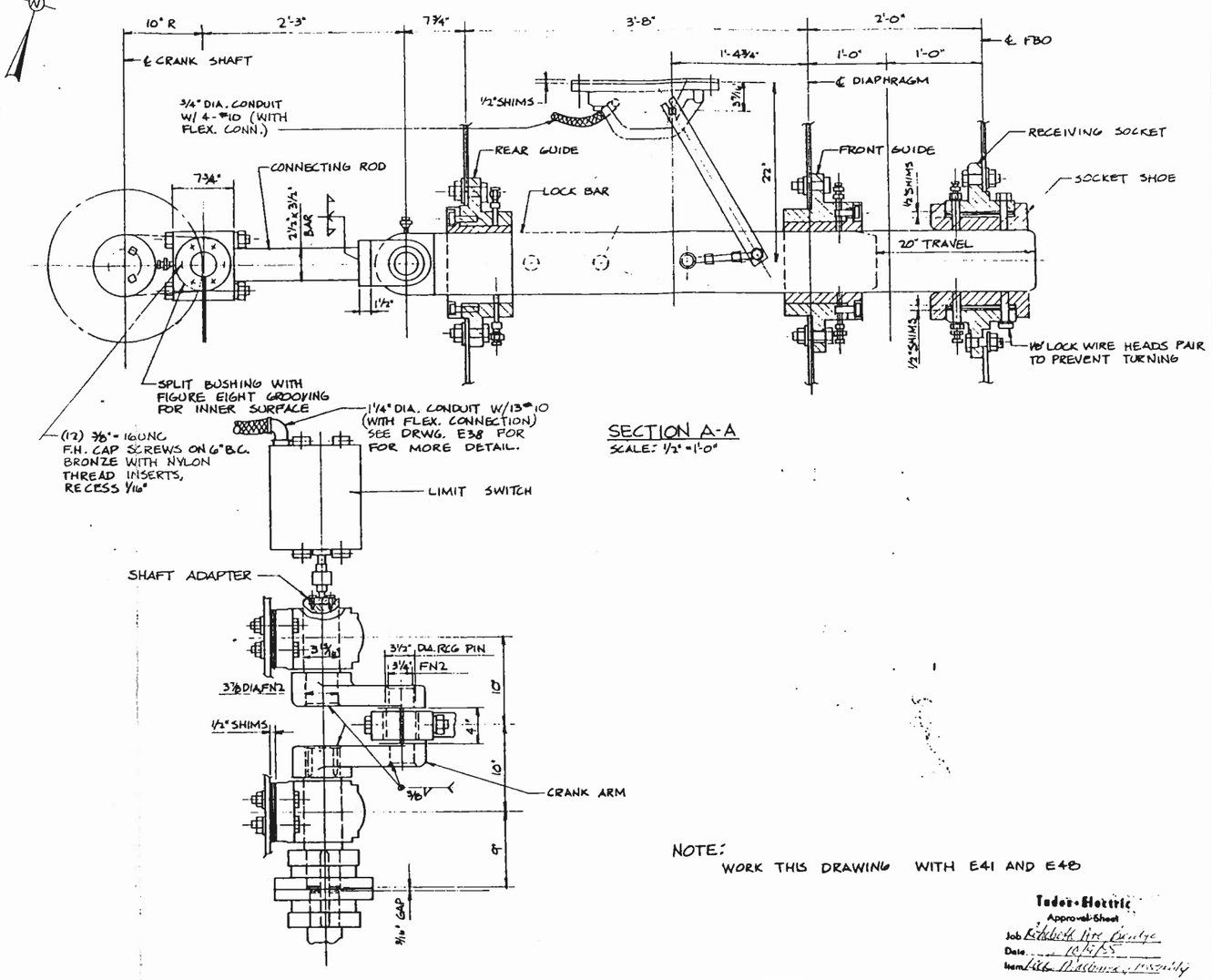
REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE	
1 12/19/85	DRAWN BY: JEL	TITLE: LOCK MACHINERY SUPPORTS
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS
	DATE: 9/25/85	DRAWING NO. E40



ELEVATION

SPAN LOCK ASSEMBLY

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



SECTION A-A

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

DETAIL "A" (AS SHOWN)

DETAIL "B" (OPP. HAND)

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

NOTE:

WORK THIS DRAWING WITH E41 AND E48

Tudor-Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 10/4/85
Item Lock Machinery Assembly

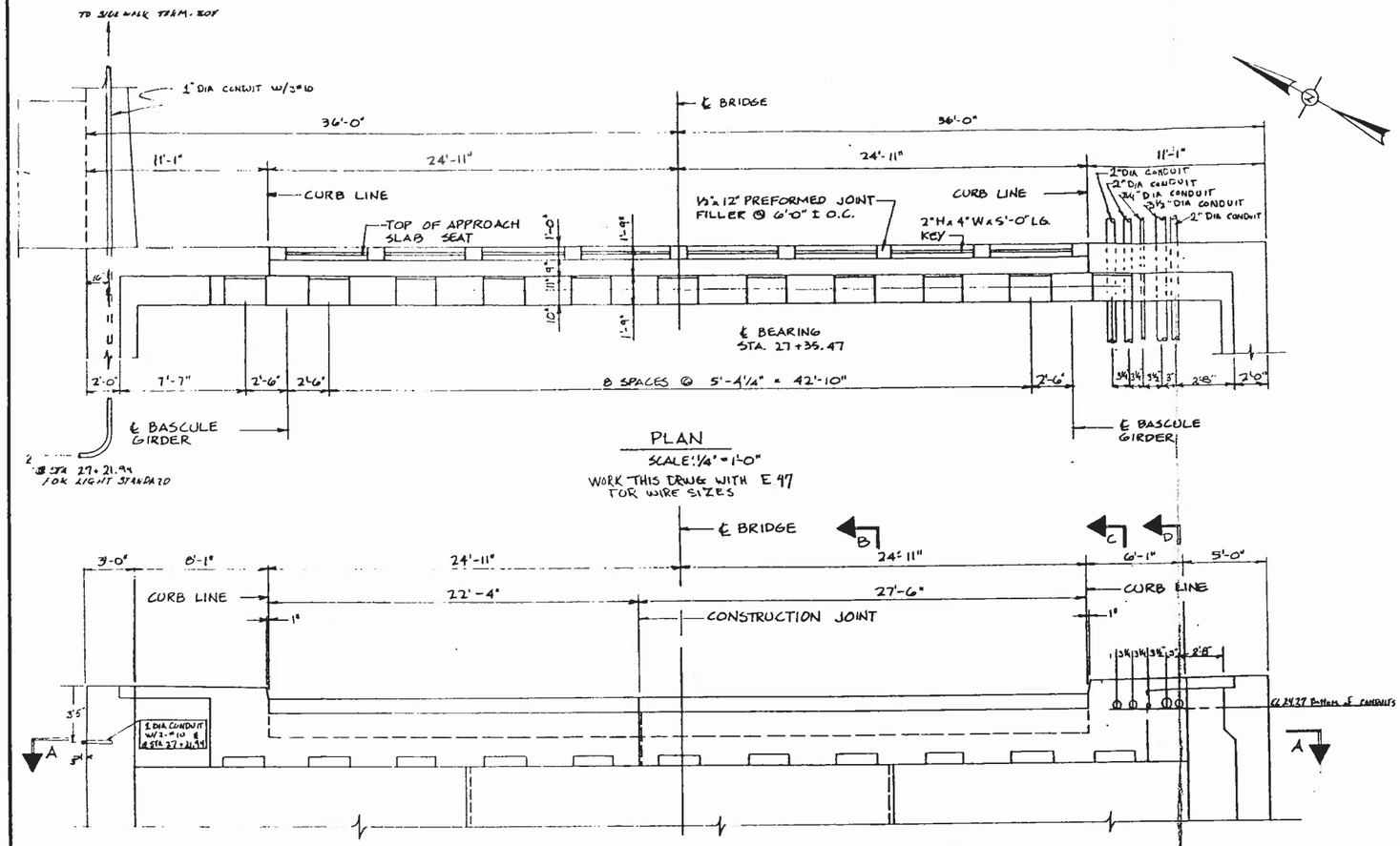
MEMBER N.E.C.A.D.

Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

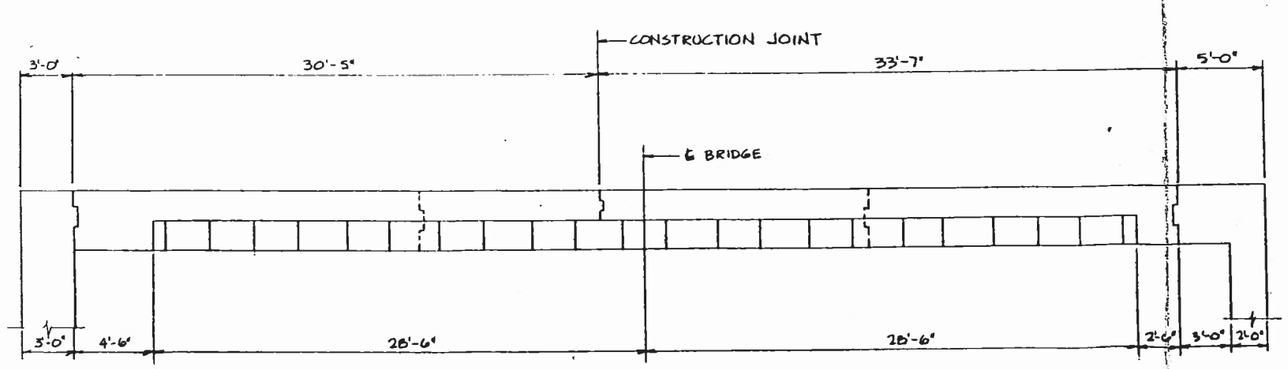
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE LOCK MACHINERY ASSEMBLY	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E49
	DATE 9/30/85		

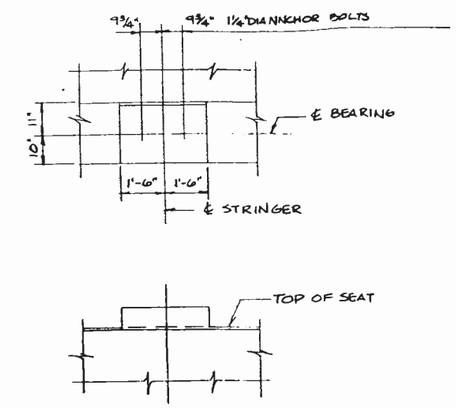


PLAN
SCALE: 1/4" = 1'-0"
WORK THIS DRWG WITH E 47 FOR WIRE SIZES

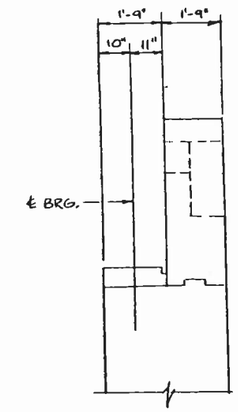
ELEVATION
SCALE: 1/4" = 1'-0"



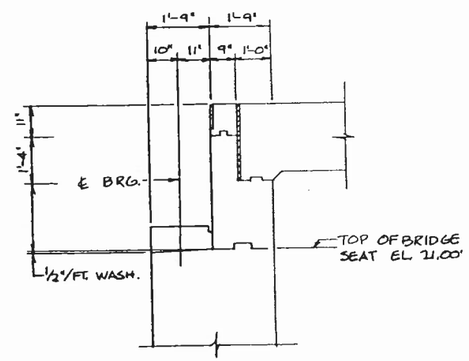
SECTION A-A
SCALE: 1/4" = 1'-0"



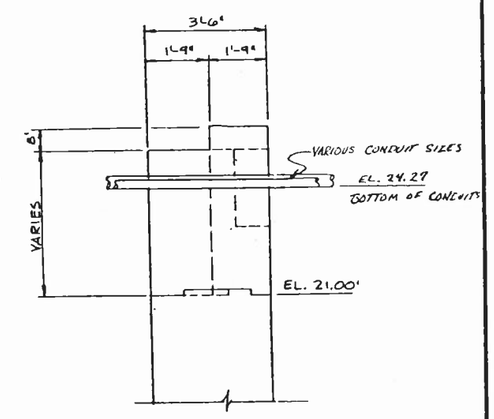
TYPICAL DETAIL OF BEARING PAD
SCALE: 1/2" = 1'-0"



SECTION C-C
SCALE: 1/2" = 1'-0"

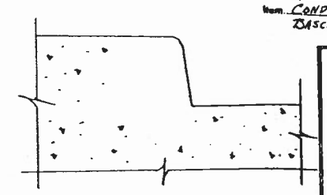


SECTION B-B
SCALE: 1/2" = 1'-0"



SECTION D-D
SCALE: 1/2" = 1'-0"

Tudor Electric
Approval Sheet
Job: Rehoboth AVE BRIDGE
Date: 11-15-85
Item: CONDUITS @ EAST WALL BASCULE PIER

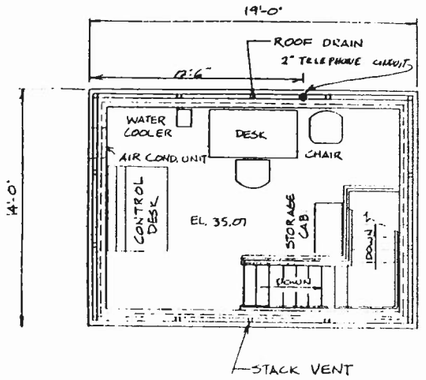


DETAIL 'A'
SCALE: 1½" = 1'-0"

MEMBER E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

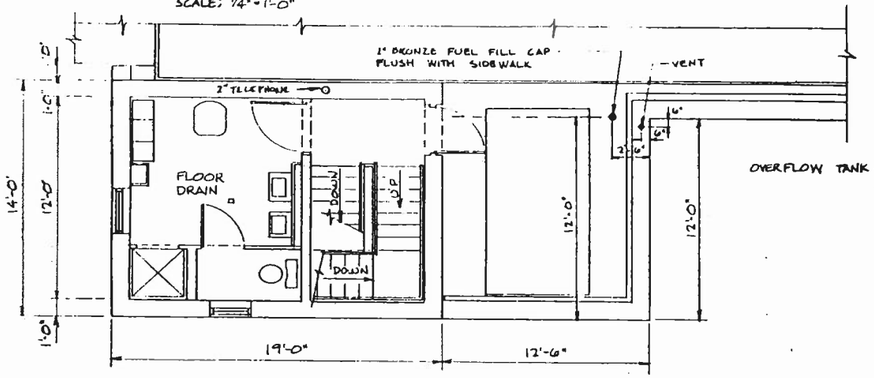
REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE BASCULE PIER EAST WALL - BACKWALL DETAILS	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E50
	DATE 10/28/85		



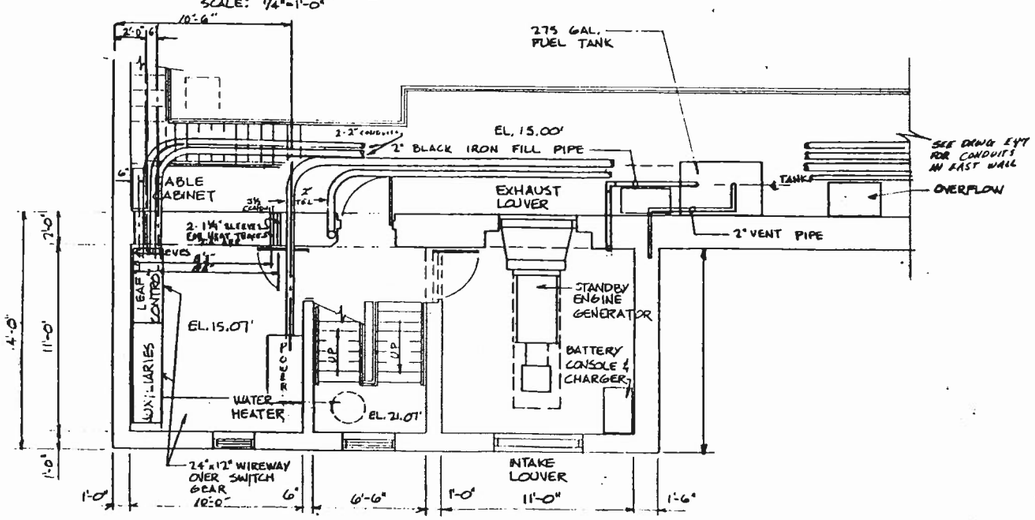
OPERATOR'S ROOM
SCALE: 1/4" = 1'-0"

NOTE:
CONTROL DESK ON 1" HI. CONCRETE PAD ABOVE FINISH FLOOR

FOR CONDUITS AT EAST WALL, SEE DRAWING E7

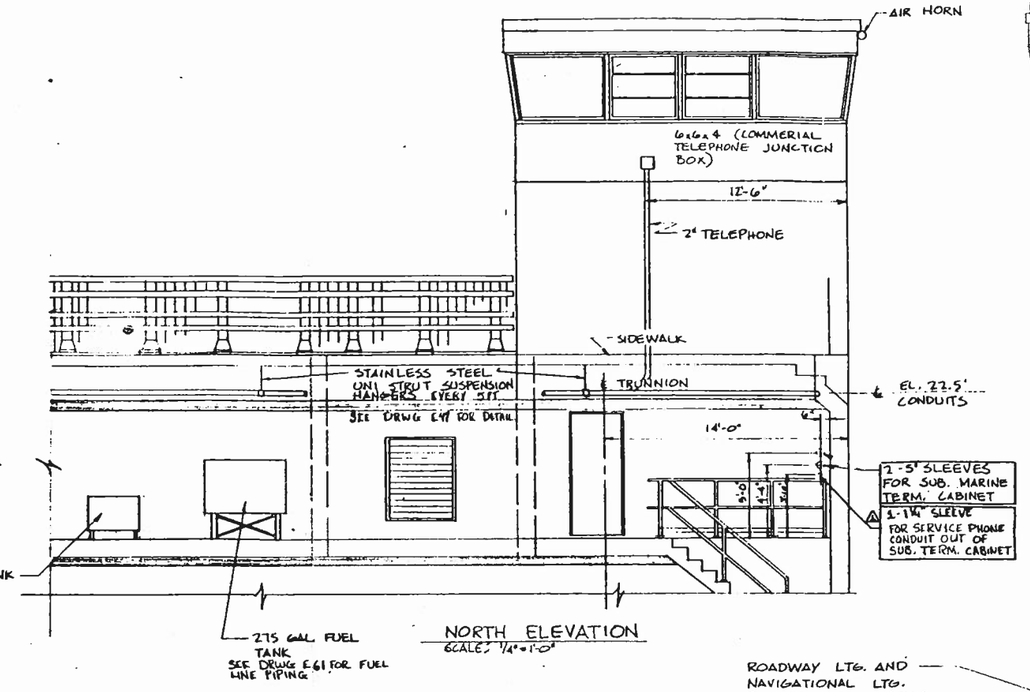


UTILITY ROOM
SCALE: 1/4" = 1'-0"

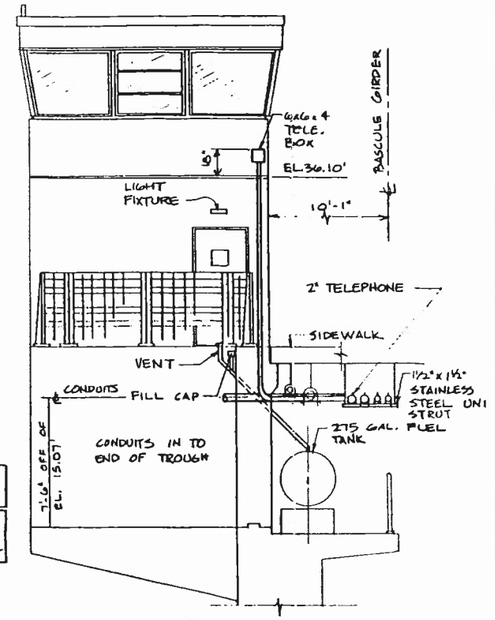


SWITCHBOARD AND ENGINE ROOM
SCALE: 1/4" = 1'-0"

REFER TO DRWG. E-37 FOR DETAILS ON HEAT TRACE CONDUITS

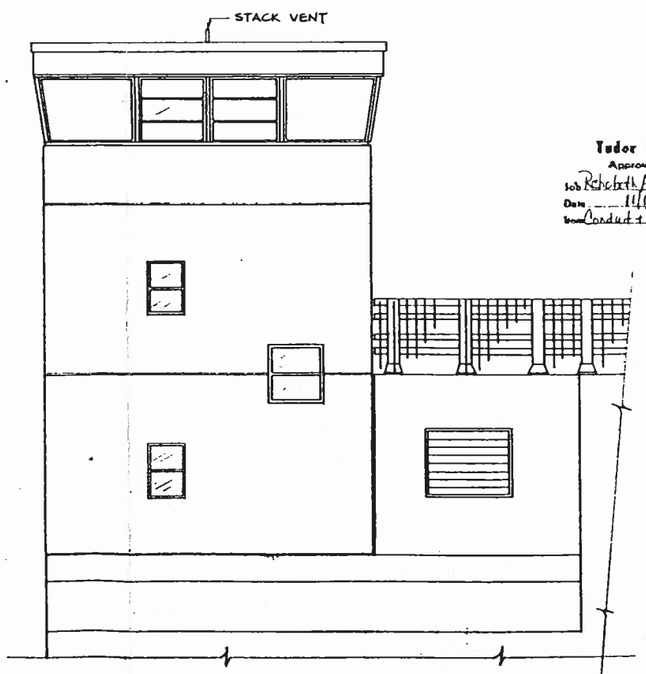


NORTH ELEVATION
SCALE: 1/4" = 1'-0"

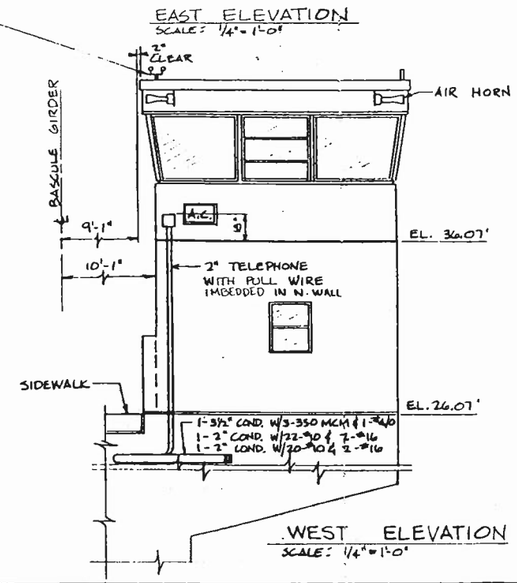


EAST ELEVATION
SCALE: 1/4" = 1'-0"

ROADWAY LTG. AND NAVIGATIONAL LTG. PHOTOELECTRIC CELLS



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



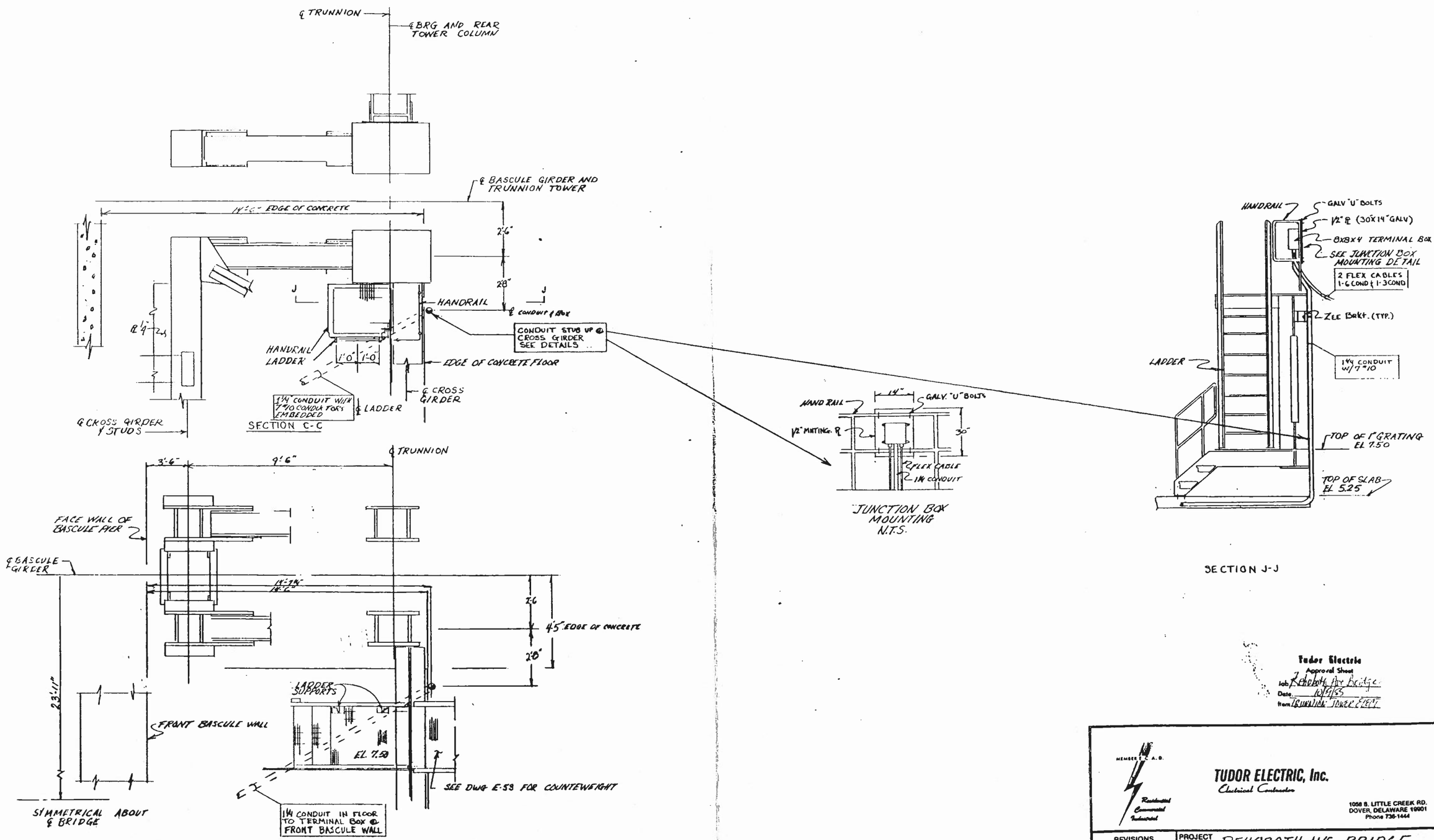
WEST ELEVATION
SCALE: 1/4" = 1'-0"

Tudor Electric
Approval Sheet
Job Rehoboth Ave. Bridge
Date 11/18/85
Conduit + Piping @ Control House

MEMBER I.E.A.D.
Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT		
▲ 11/18/85 ADD E.L. SLEEVE FOR SERVICE PHONE	REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE CONTROL HOUSE PLAN AND ELEVATION	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E51
	DATE 10/11/85		



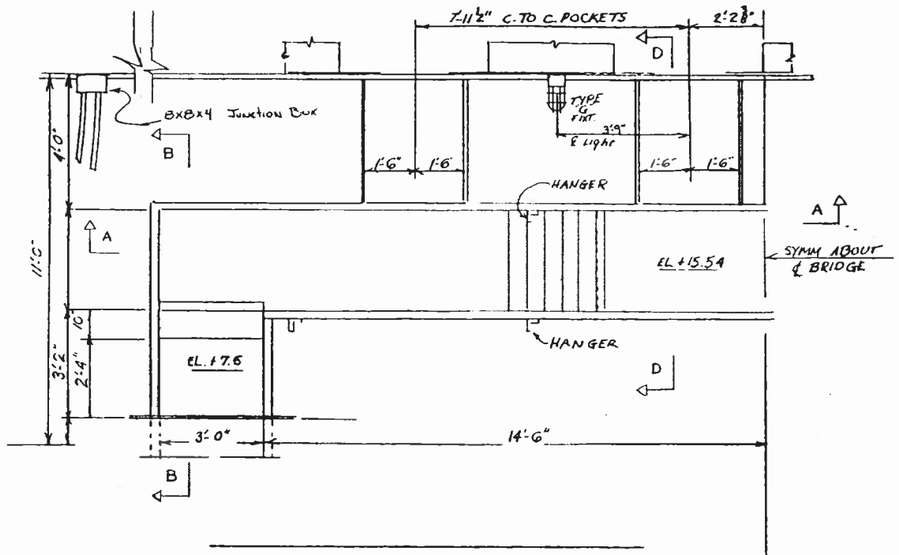
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 10/4/85
Item TRUNNION TOWER ELECT.

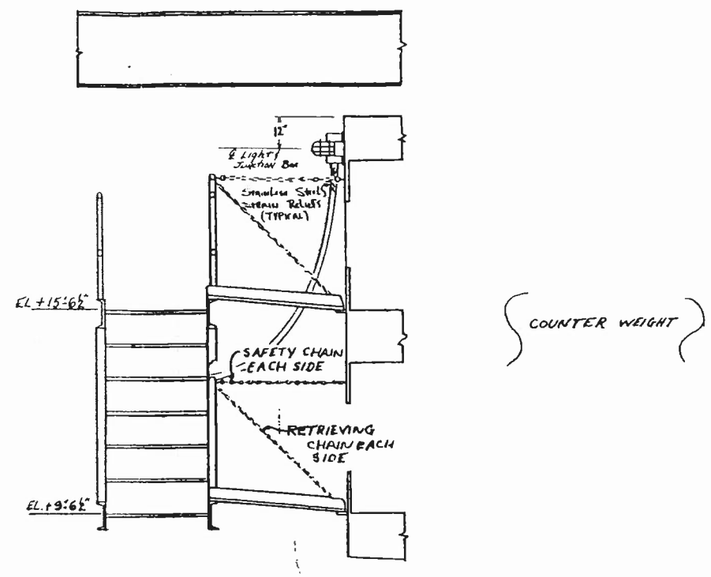
MEMBER I.C.A.B.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

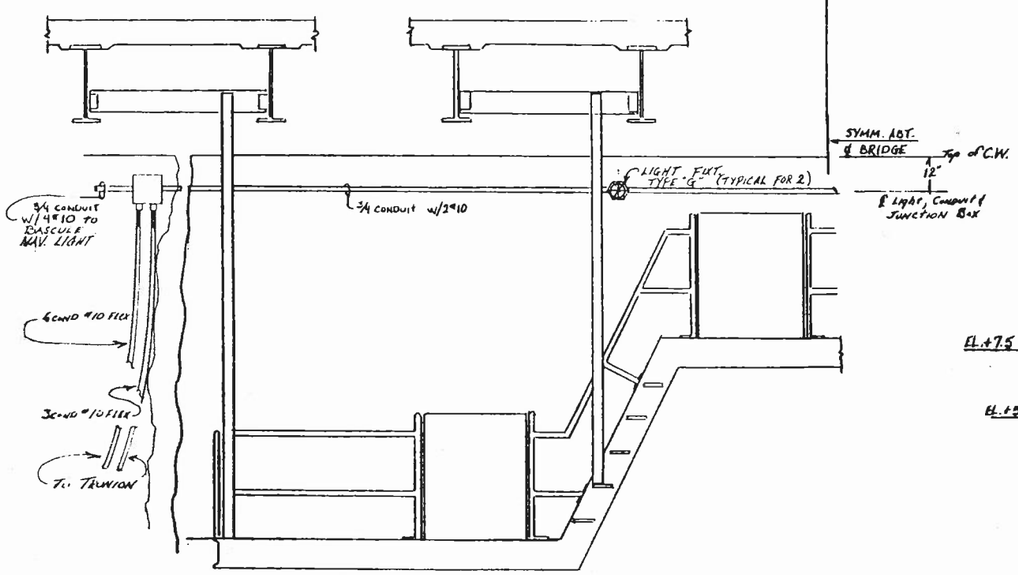
REVISIONS	PROJECT REHOBOTH AVE. BRIDGE		
	DRAWN BY: B.T.	TITLE TRUNNION TOWER ELECT.	
	SCALE ½" = 1 FT	OWNER STATE OF DEL. DEPT. OF TRANS. DIV OF HIGHWAYS	DRAWING NO. E-52
	DATE 10-1-85		



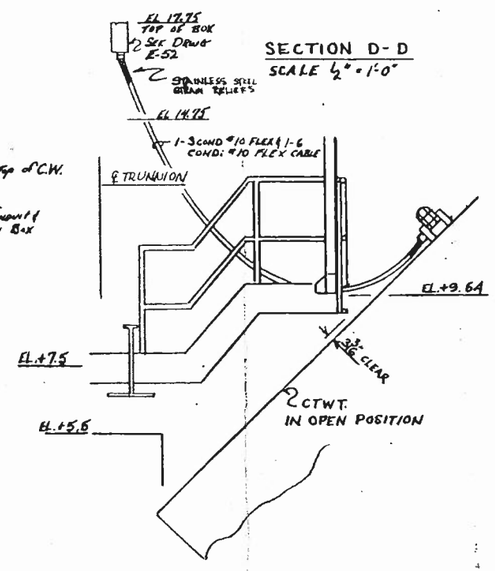


COUNTER WEIGHT

SECTION D-D
SCALE ½" = 1'-0"



SECTION A-A



SECTION B-B

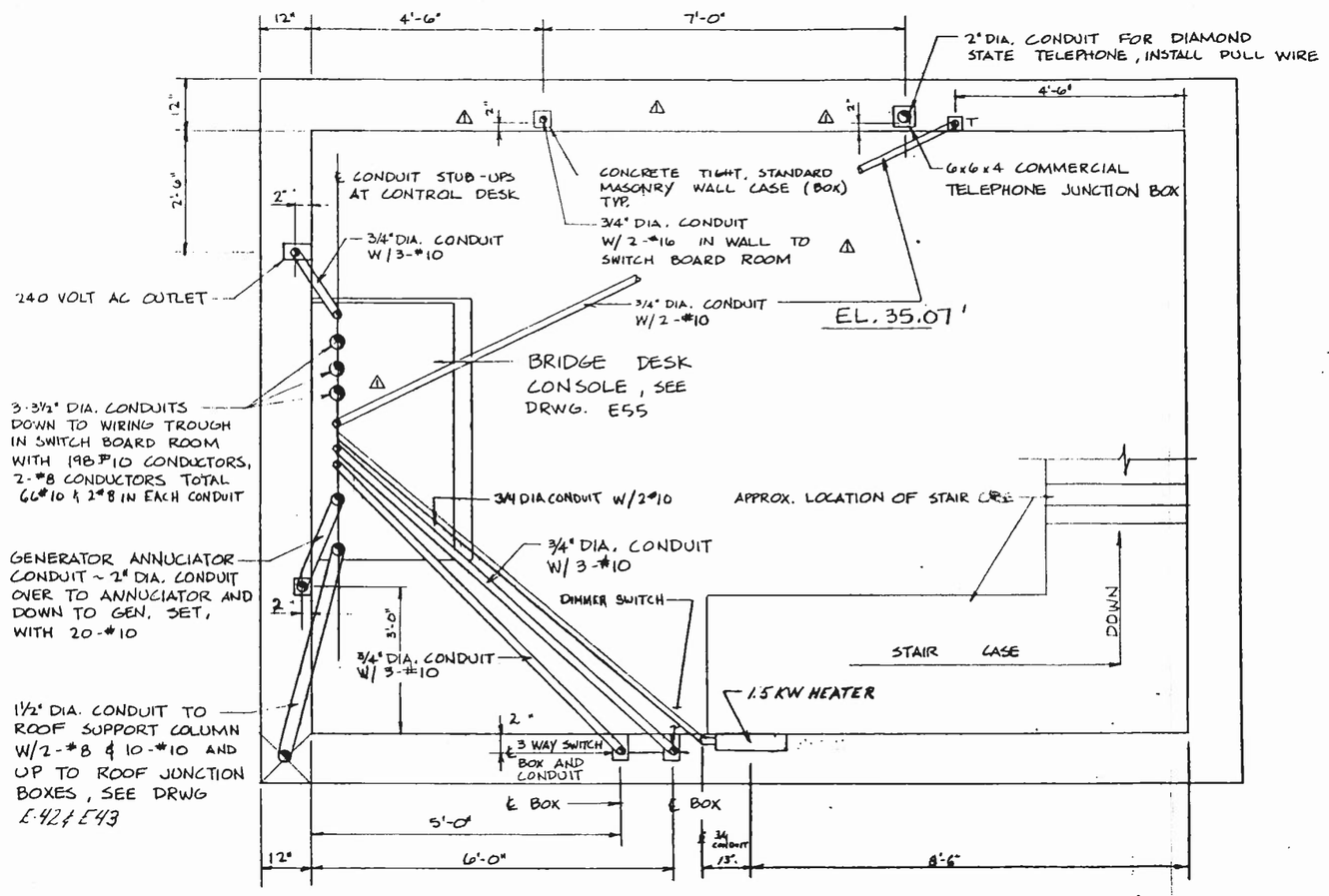
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 10/15/85
Item Counterweight Electric

MEMBER E.C.A.D
Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVE. BRIDGE		
	DRAWN BY: B.T	TITLE Counterweight - Electric	
	SCALE ½" = 1 FT	OWNER STATE OF DE. DEPT OF TRANS. DIV OF HIGHWAYS	DRAWING NO. E-53
	DATE 10-1-85		



PLAN - OPERATORS ROOM

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

△ — IMPORTANT —
EMBED CONDUITS IN WALL AS DEEP AS PRACTICAL PREFERABLY IN CENTER OF WALLS. CONDUITS SHOWN ARE FOR TERMINATING INTO WALL BOX K.O.'S PROVIDED IN BOX FROM FACTORY ONLY

NOTE:
1. WORK THIS DRAWING WITH E55 AND E10 △
2. SEE SHEET E FOR HEATER LAYOUT IN OPERATOR'S ROOM

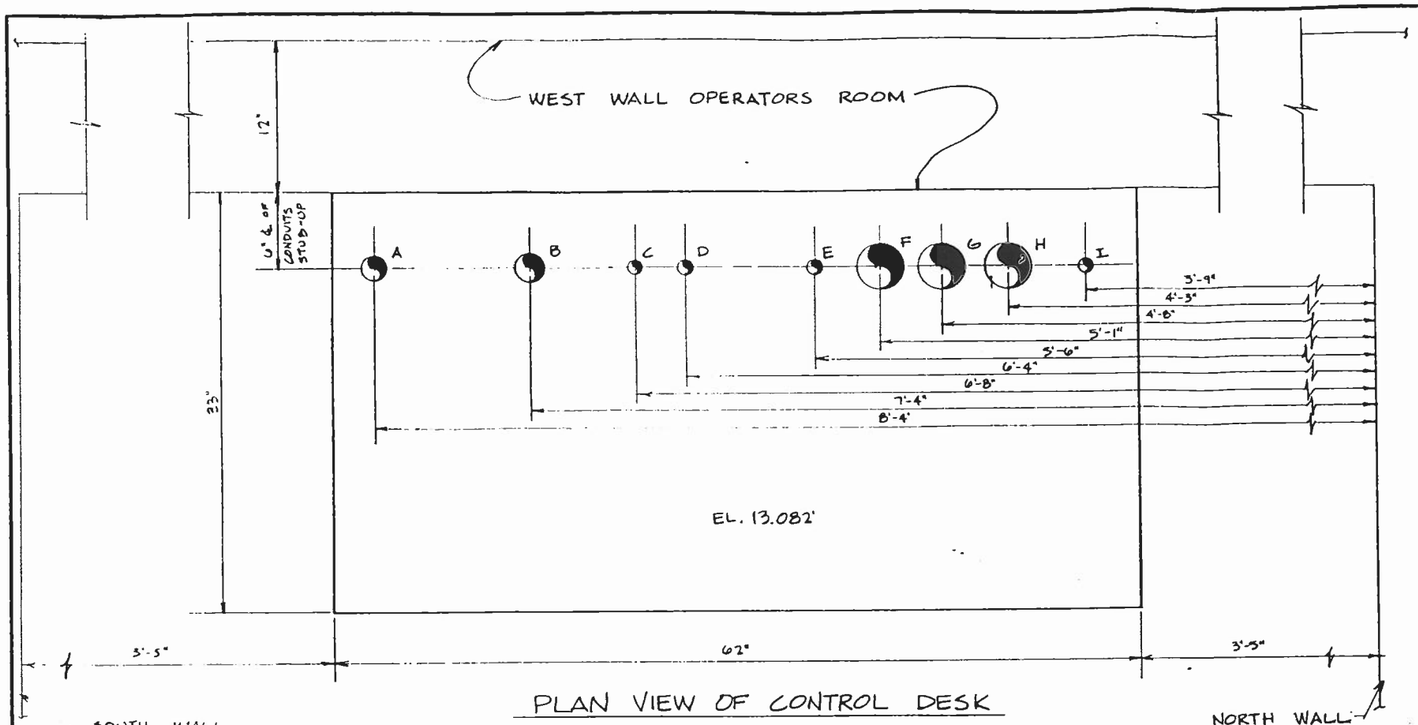
Tudor Electric
Approval Sheet
Job Rehoboth AVE BRIDGE
Date 11/26/85
Item CONDUITS @ Control Desk

MEMBER E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
△ 11/9/85	DRAWN BY: JEL	TITLE OPERATORS ROOM PLAN	
△ 11-18-85 - ADDED NOTE	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E54
	DATE 10/16/85		



PLAN VIEW OF CONTROL DESK

CONDUIT STUB-UPS

OPERATORS ROOM

SCALE: 3/16" = 1"

CONDUITS SIZES PER LETTER

	KEY		
A	1½" DIA. CONDUIT	W/ 2-#8 & 10-#10	
B	2" DIA. CONDUIT	W/ 20-#10	
C	¾" DIA. CONDUIT	W/ 3-#10	
D	¾" DIA. CONDUIT	W/ 3-#10	
E	¾" DIA. CONDUIT	W/ 2-#16	
F	3½" DIA. CONDUIT	W/ 66-#10 & 2-#8	△
G	3½" DIA. CONDUIT	W/ 66-#10 &	△
H	3½" DIA. CONDUIT	W/ 60-#10 &	△
I	¾" DIA. CONDUIT	W/ 3-#10	

NOTES

1. WHEN STUBBING UP CONDUITS ALLOW ENOUGH CONDUIT FOR 1" CONCRTE HOUSE KEEPING PAD ABOVE FINISH FLOOR.
2. ALL CONDUITS SHALL HAVE AN O-Z GEDNEY CAT. NO. RBLG BRONZE GROUNDING BUSHING INSTALLED (SIZE TO FIT) AND BONDED WITH #6 STRANDED COPPER.
3. WORK THIS SHEET WITH E54 FOR ALL CONDUIT STUB-UPS IN OPERATORS ROOM THAT EXTEND FROM CONTROL DESK

Tudor Electric
Approval Sheet
Job Rehoboth Ave. Bridge
Date 10/16/85
Item Conduit Stub UPS @ Control Desk

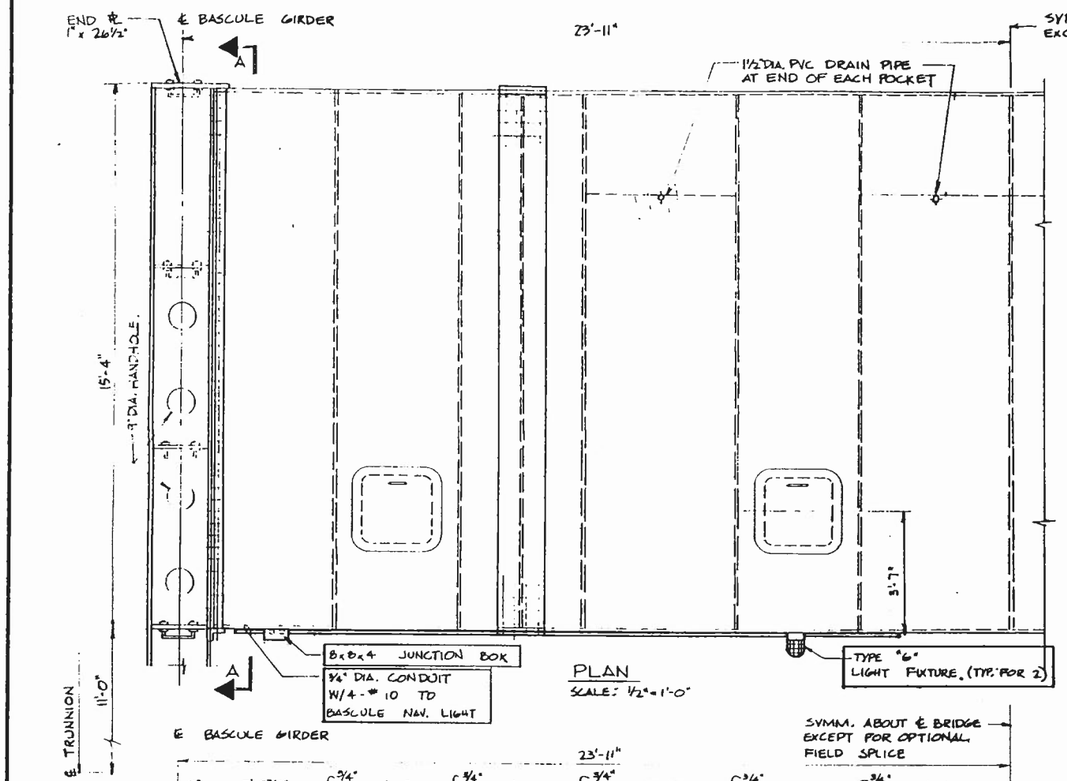
MEMBER N.E.C.A.

Residential
Commercial
Industrial

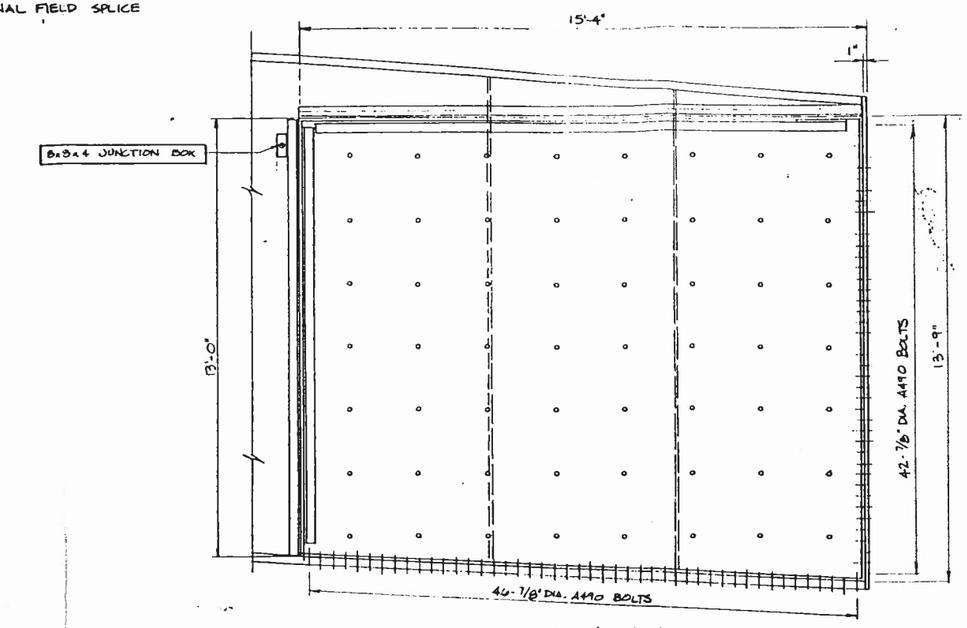
TUDOR ELECTRIC, Inc.
Electrical Contractor

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

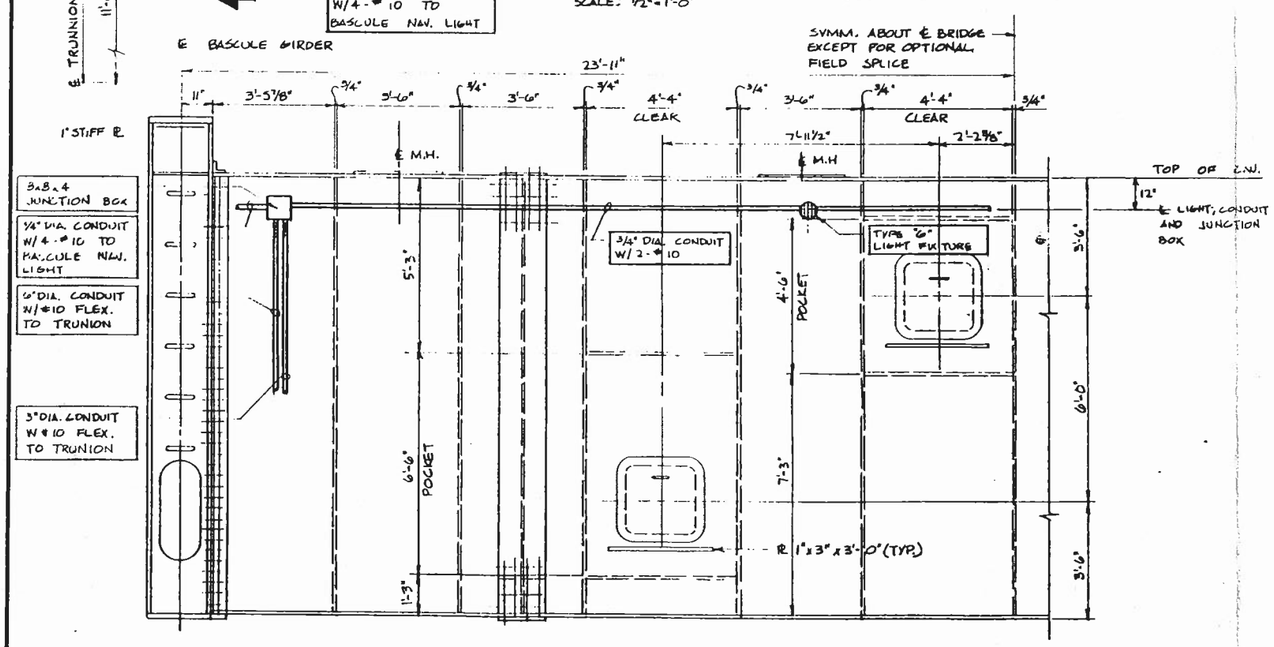
REVISIONS	PROJECT		
△ 11/9/85	REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE PLAN VIEW OF CONTROL DESK	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E55
	DATE 10/16/85		



PLAN
SCALE: 1/2" = 1'-0"



SECTION A-A
(CONN. TO BASCULE GIRDER)
SCALE: 1/2" = 1'-0"



FRONT ELEVATION
SCALE: 1/2" = 1'-0"

1

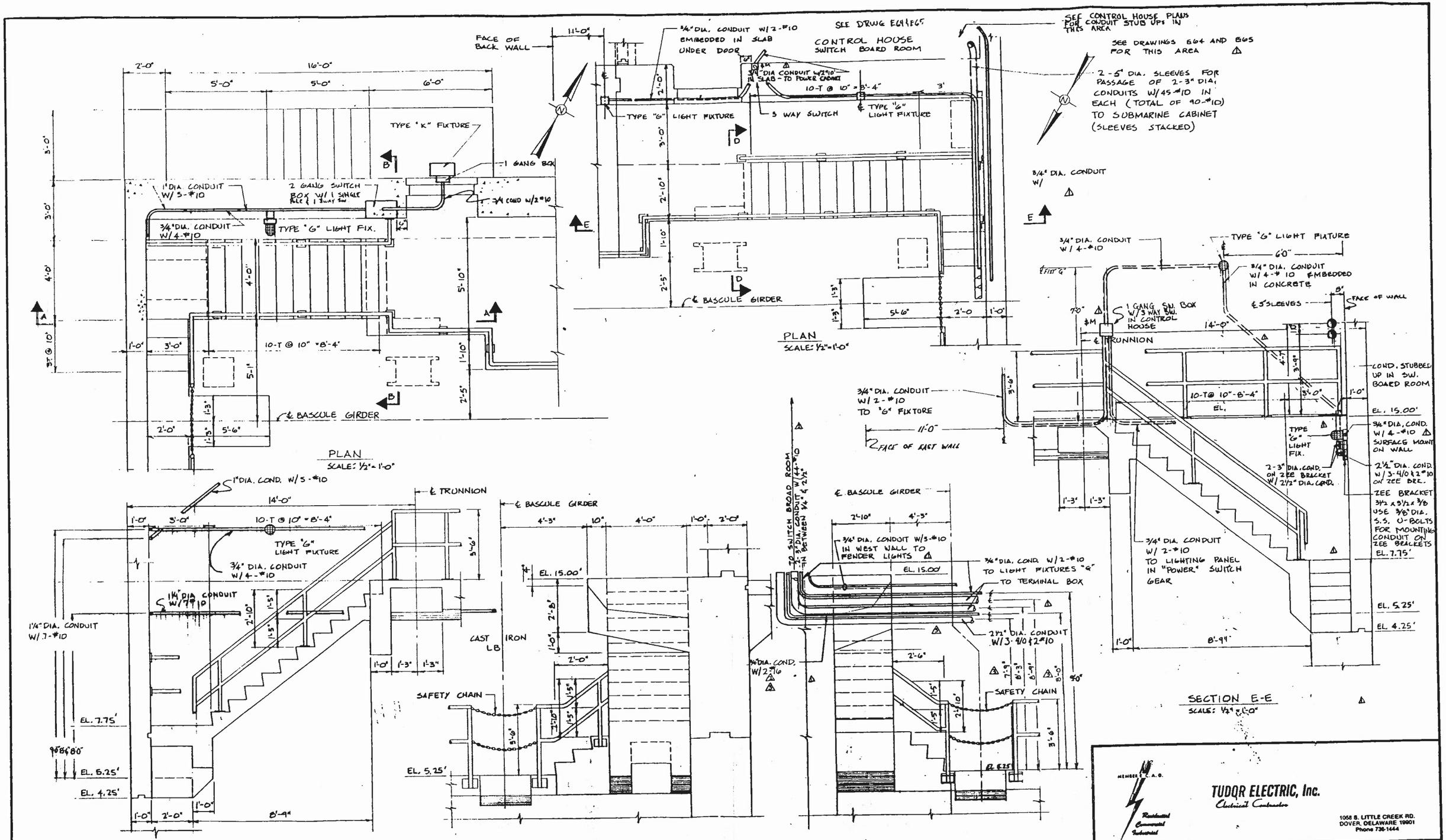
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 10/22/85
Item Counter weight Electric

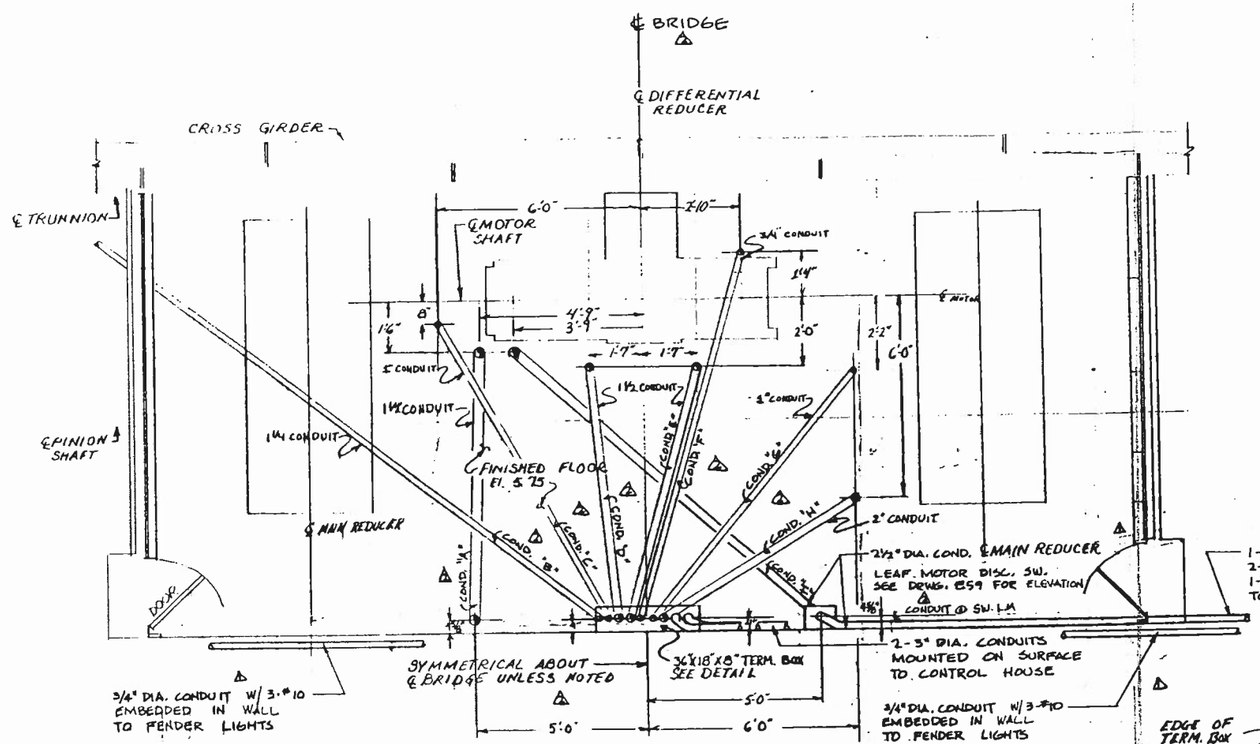
MEMBER I.C.A.D.
Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JBL	TITLE: BASCULE SPAN COUNTERWEIGHT DETAILS	
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E56
	DATE: 10/11/85		

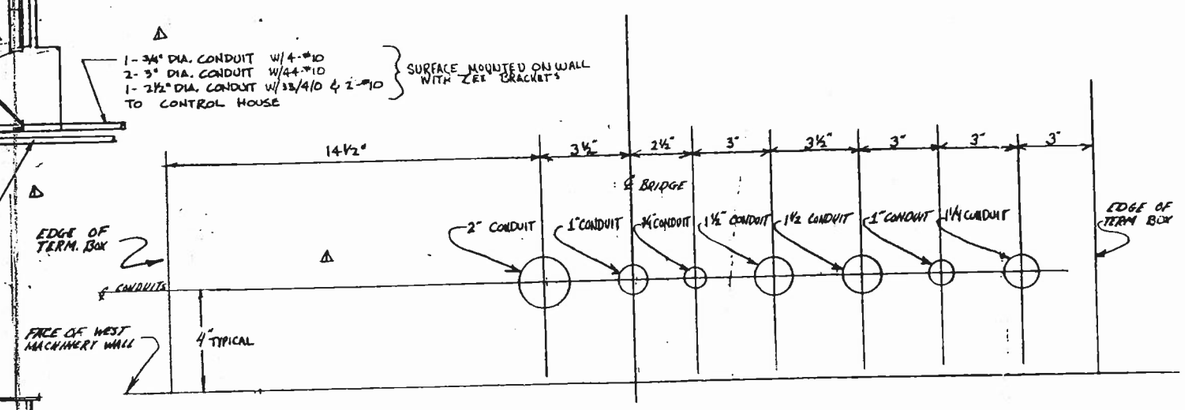

PLAN
SCALE: 1/2" = 1'-0"
TYPE "K" FIXTURE
1 GANG BOX
1" DIA. CONDUIT W/ 5-#10
2 GANG SWITCH BOX W/ 1 SINGLE REC & 1 3 WAY SW
3/4" COND W/ 2-#10
3/4" DIA. CONDUIT W/ 4-#10
TYPE "G" LIGHT FIX.
10-T @ 10" = 8'-4"
℄ BASCULE GIRDER
FACE OF BACK WALL
3/4" DIA. CONDUIT W/ 2-#10 EMBEDDED IN SLAB UNDER DOOR
SEE DRWG E6 & E6.5
CONTROL HOUSE SWITCH BOARD ROOM
3/4" DIA CONDUIT W/ 2-#10 IN SLAB - TO POWER CABINET
TYPE "G" LIGHT FIXTURE
3 WAY SWITCH
℄ TYPE "G" LIGHT FIXTURE
SEE CONTROL HOUSE PLANS FOR CONDUIT STUB UPS IN THIS AREA
SEE DRAWINGS E6.4 AND E6.5 FOR THIS AREA
2-5" DIA. SLEEVES FOR PASSAGE OF 2-3" DIA. CONDUITS W/ 45-#10 IN EACH (TOTAL OF 90-#10) TO SUBMARINE CABINET (SLEEVES STACKED)
3/4" DIA. CONDUIT W/
3/4" DIA. CONDUIT W/ 4-#10
TYPE "G" LIGHT FIXTURE
3/4" DIA. CONDUIT W/ 4-#10 EMBEDDED IN CONCRETE
1 GANG SW. BOX W/ 3 WAY SW. IN CONTROL HOUSE
℄ 5" SLEEVES
FACE OF WALL
℄ TRUNNION
COND. STUBBED UP IN SW. BOARD ROOM
10-T @ 10" = 8'-4"
EL. 15.00'
3/4" DIA. COND. W/ 4-#10 SURFACE MOUNT ON WALL
TYPE "G" LIGHT FIX.
2-3" DIA. COND. ON ZEE BRACKET W/ 2 1/2" DIA. COND.
2 1/2" DIA. COND. W/ 3-4/0 & 2-#10 ON ZEE BRC.
ZEE BRACKET 3 1/2 x 3 1/2 x 3/8 USE 3/8" DIA. S.S. U-BOLTS FOR MOUNTING CONDUIT ON ZEE BRACKETS
EL. 7.75'
3/4" DIA. CONDUIT W/ 2-#10 TO LIGHTING PANEL IN "POWER" SWITCH GEAR
EL. 5.25'
EL. 4.25'
8'-9"
SECTION E-E
SCALE: 1/2" = 1'-0"
3/4" DIA. CONDUIT W/ 2-#10 TO "G" FIXTURE
FACE OF EAST WALL
TO SWITCH BROAD ROOM
3/4" DIA. CONDUIT W/ 4-#10 & 2 1/2"
3/4" DIA. CONDUIT W/ 3-#10 IN WEST WALL TO FENDER LIGHTS
3/4" DIA. COND. W/ 2-#10 TO LIGHT FIXTURES "G"
TO TERMINAL BOX
2 1/2" DIA. CONDUIT W/ 3-4/0 & 2-#10
SAFETY CHAIN
EL. 15.00'
EL. 5.25'
SECTION D-D
SCALE: 1/2" = 1'-0"
1 1/4" DIA. CONDUIT W/ 7-#10
EL. 7.75'
EL. 6.25'
EL. 4.25'
8'-9"
SECTION A-A
SCALE: 1/2" = 1'-0"
℄ TRUNNION
℄ BASCULE GIRDER
1 1/4" DIA. CONDUIT W/ 7-#10
CAST IRON LB
SAFETY CHAIN
EL. 15.00'
EL. 5.25'
SECTION B-B
SCALE: 1/2" = 1'-0"
NOTE:
WORK WITH DRWG E7 (TRANSVERSE SECTION) FOR ALL CONDUITS
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 12-17-85
from Bascule Walls Electric
MEMBER N.E.C.A.
Residential Commercial Industrial
TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444
REVISIONS
10/23/85
10/29/85
11/9/85
PROJECT
REHOBOTH AVENUE BRIDGE
DRAWN BY: JEL
SCALE AS-SHOWN
DATE 10/13/85
TITLE
BASCULE PIER
MISCELLANEOUS DETAIL 1
OWNER
STATE OF DELAWARE
DEPT. OF TRAN.
DIVISION OF HIGHWAYS
DRAWING NO.
E57



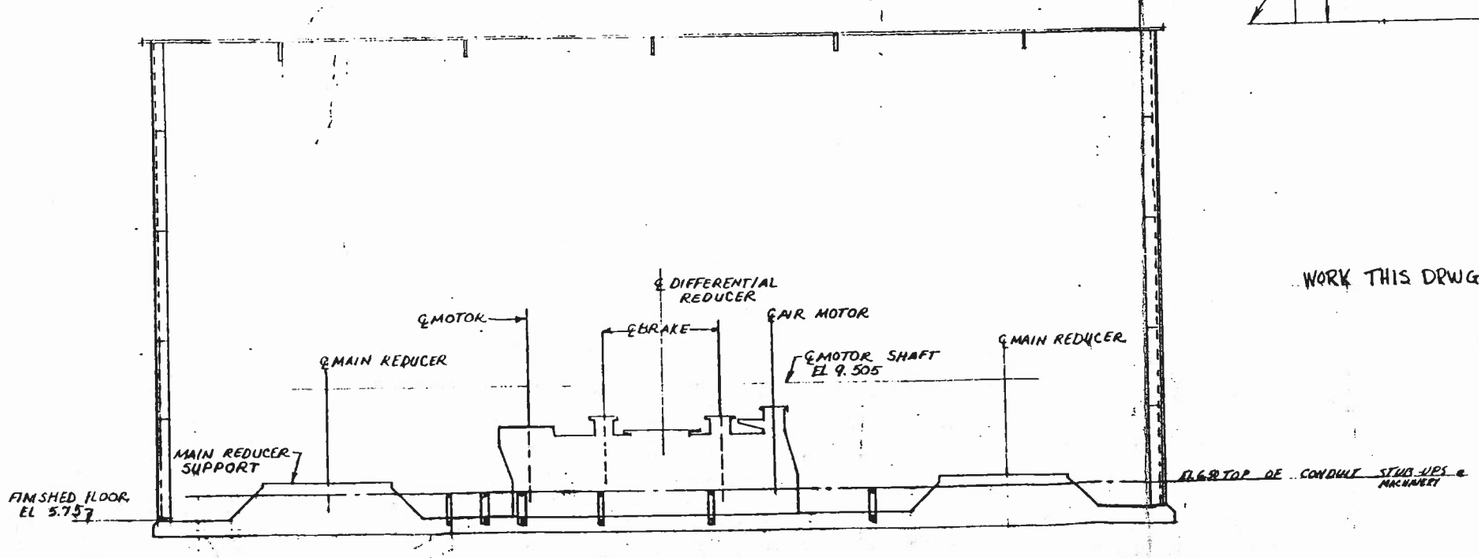
PLAN OF OPERATING MACHINERY SUPPORTS
SCALE: ½"=1'-0"

CONDUITS ONLY SHOWN
SEE DRWG E-59 FOR
WIRE SIZE

1 - 3/4" DIA. CONDUIT W/ 4-#10
2 - 3" DIA. CONDUIT W/ 44-#10
1 - 2½" DIA. CONDUIT W/ 33/4/0 & 2-#10
TO CONTROL HOUSE
} SURFACE MOUNTED ON WALL WITH "Z" BRACKETS



CONDUITS @ TERMINAL BOX
STUBBED UP OUT OF FLOOR
SCALE ¾"=1 FT



SECTION A-A
SCALE: ½"=1'-0"

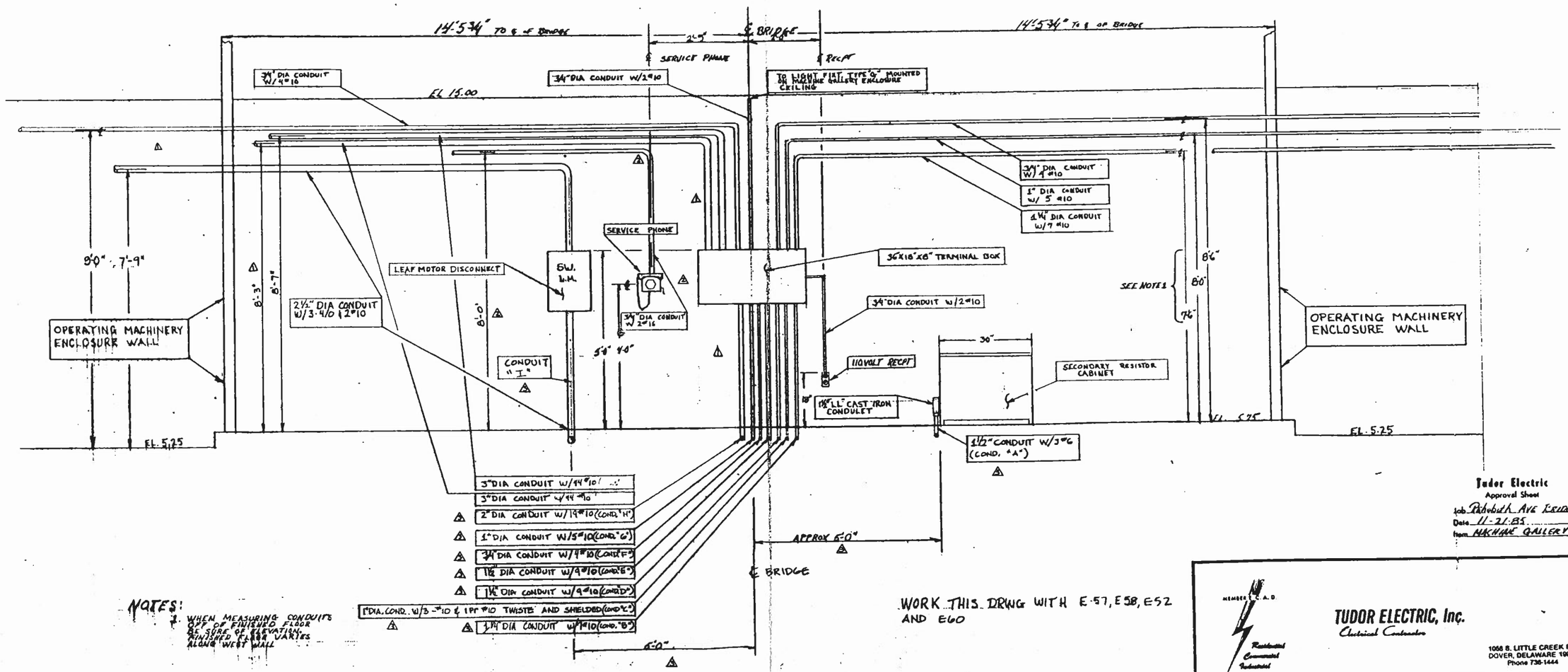
WORK THIS DRWG WITH E-57, E59, E36, E60 AND E52

Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 11-21-85
Item Electric @ Machine Gallery

MEMBER N.E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVE BRIDGE		
△ 10/24/85	DRAWN BY: B.T	TITLE: ELECTRIC @ MACHINE GALLERY	
△ 11/20/85	SCALE: AS SHOWN	OWNER: STATE OF DEL DEPT. OF TRANS DIV OF HIGHWAYS	DRAWING NO. E-58
	DATE: 10-22-85		



NOTES:

1. WHEN MEASURING CONDUITS OFF OF FINISHED FLOOR BE SURE OF ELEVATION. FINISHED FLOOR VARIES ALONG WEST WALL

WORK THIS DRWG WITH E-57, E58, E52 AND E60

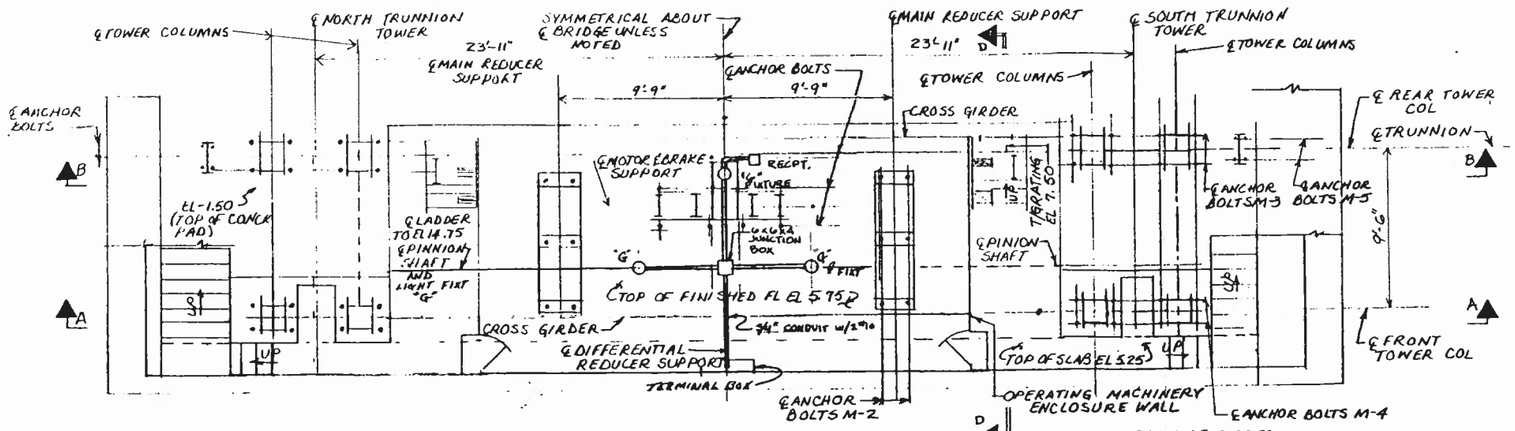
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 11-21-85
Item MACHINE GALLERY ELECTRIC

MEMBER N.E.C.A.
Residential
Commercial
Industrial

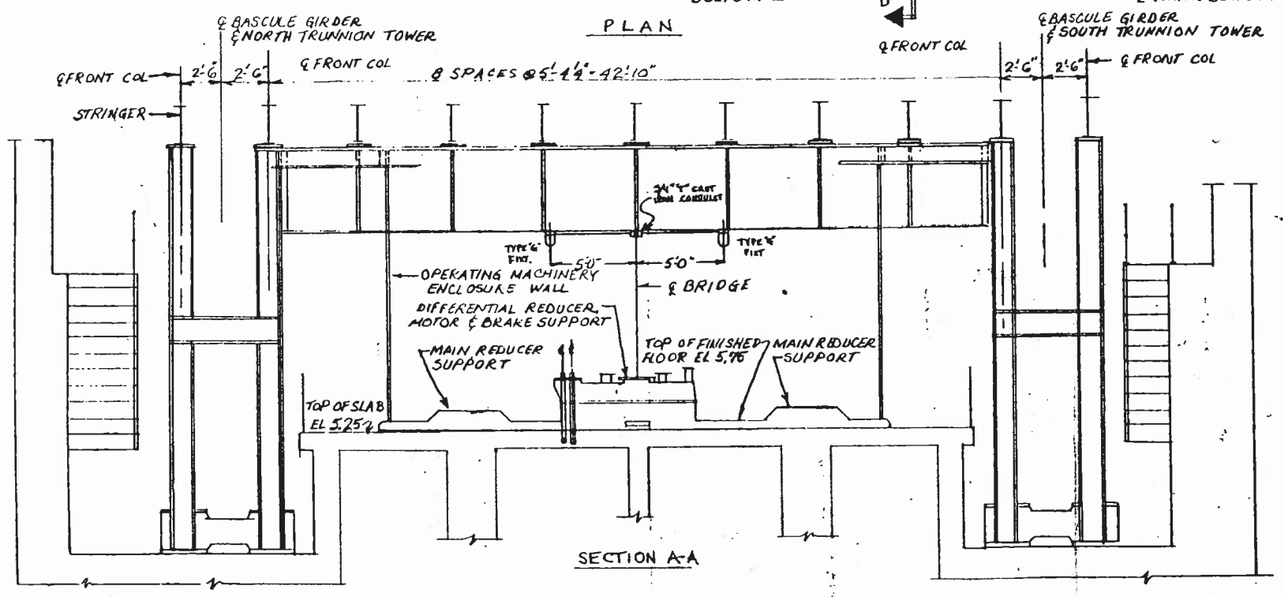
TUDOR ELECTRIC, Inc.
Electrical Contractors

1066 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

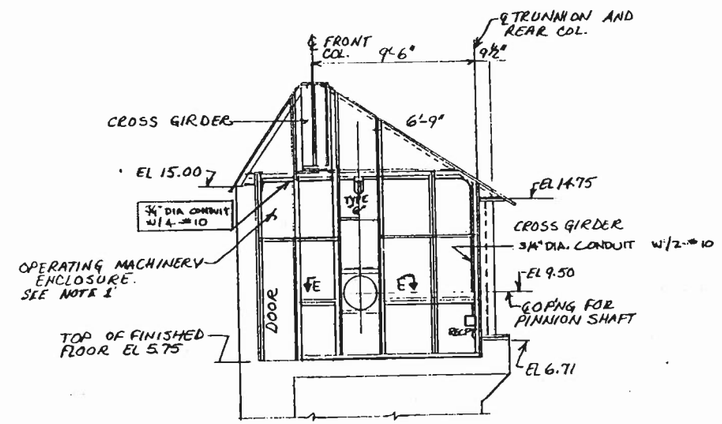
REVISIONS	PROJECT: REHOBOTH AVE BRIDGE		
1 10/24/85	DRAWN BY: R.T.	TITLE MACH. GALLERY ELECTRIC	
2 11/9/85	SCALE ¾" = 1 FT	OWNER STATE OF DEL. DEPT. OF TRANS. DIV. OF HIGHWAYS	DRAWING NO. E-59
3 11/20/85	DATE 10-20-85		



PLAN

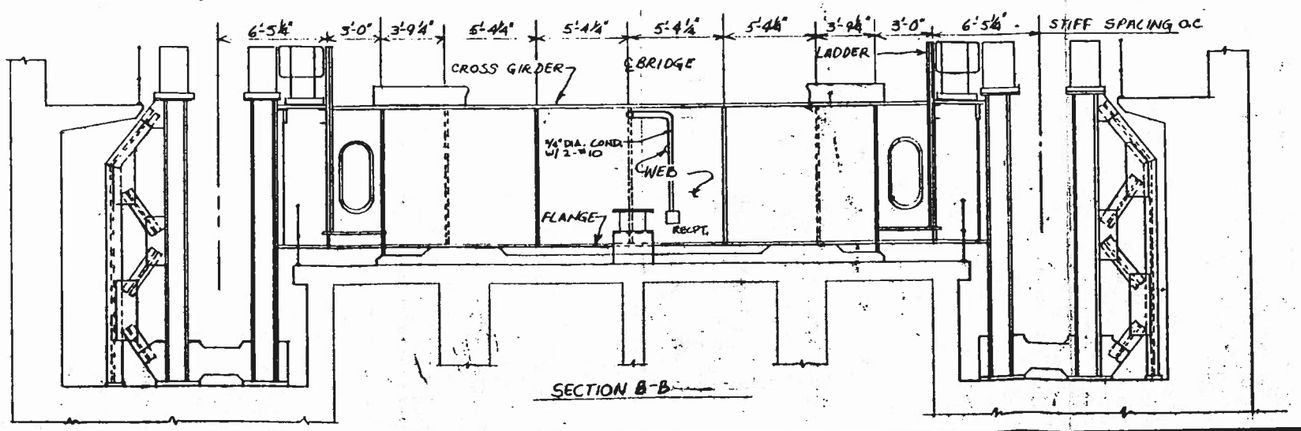


SECTION A-A



SECTION D-D

NOTE
1. CONDUITS ENTERING THIS AREA WILL HAVE TO BE FIELD DRILLED AND MISS SUPPORT CHANNELS, CONDUITS THAT ARE TO BE MOUNTED ON WEST BASCULE WALL, SHALL BE MOUNTED ON GALV. "ZEE" BRACKETS & WITH A DEPTH OF 3 1/2"



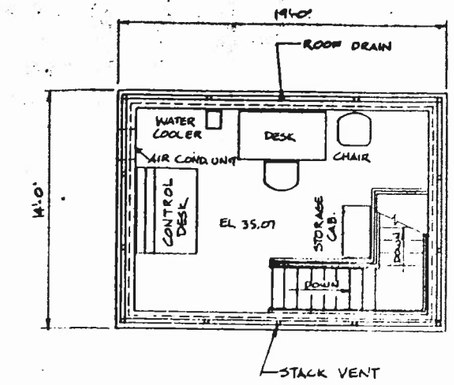
SECTION B-B

MEMBER I.C.A.B.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

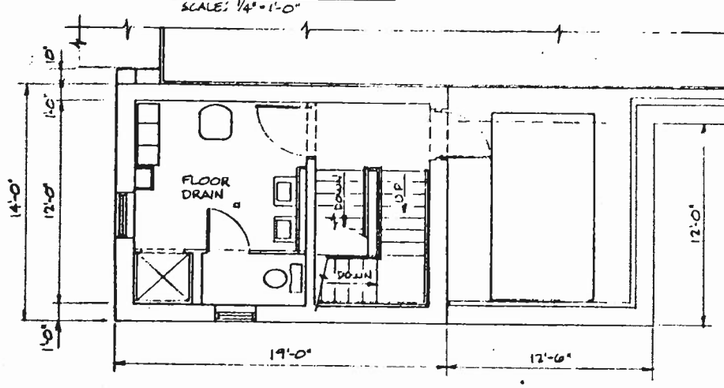
1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVE BRIDGE		
	DRAWN BY: B.T	TITLE LIGHTING IN MACH. GALLERY	
	SCALE 1/4" = 1 FT	OWNER STATE OF DE. DEPT OF TRANS DIV OF HIGHWAYS	DRAWING NO. E 60
	DATE 10-22-85		

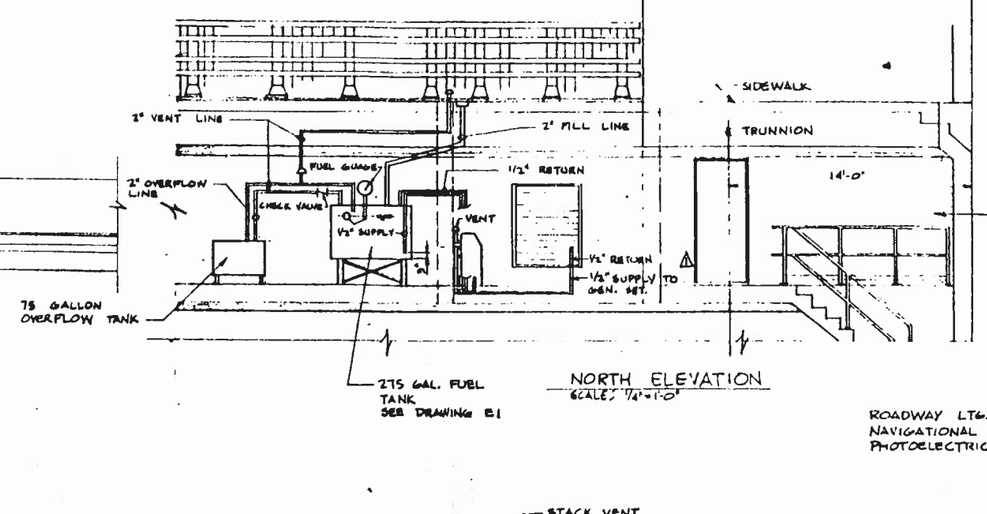


OPERATOR'S ROOM
SCALE: 1/4" = 1'-0"

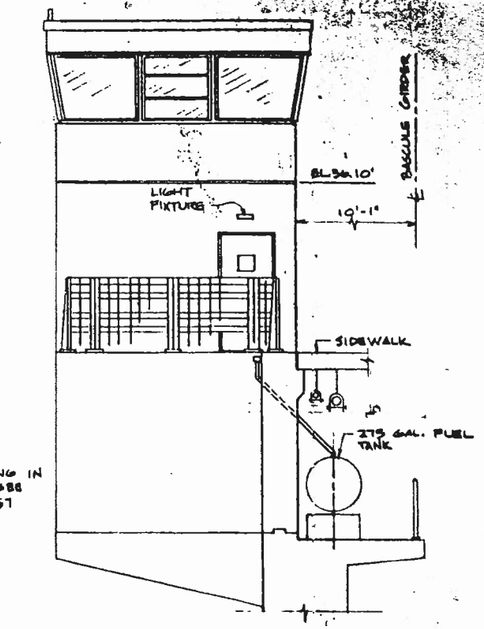
NOTE:
CONTROL DESK ON
1" H.I. CONCRETE PAD
ABOVE FINISH FLOOR



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

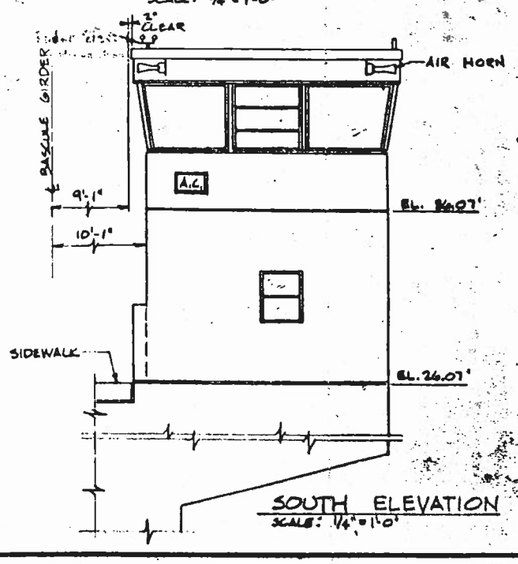


NORTH ELEVATION
SCALE: 1/4" = 1'-0"

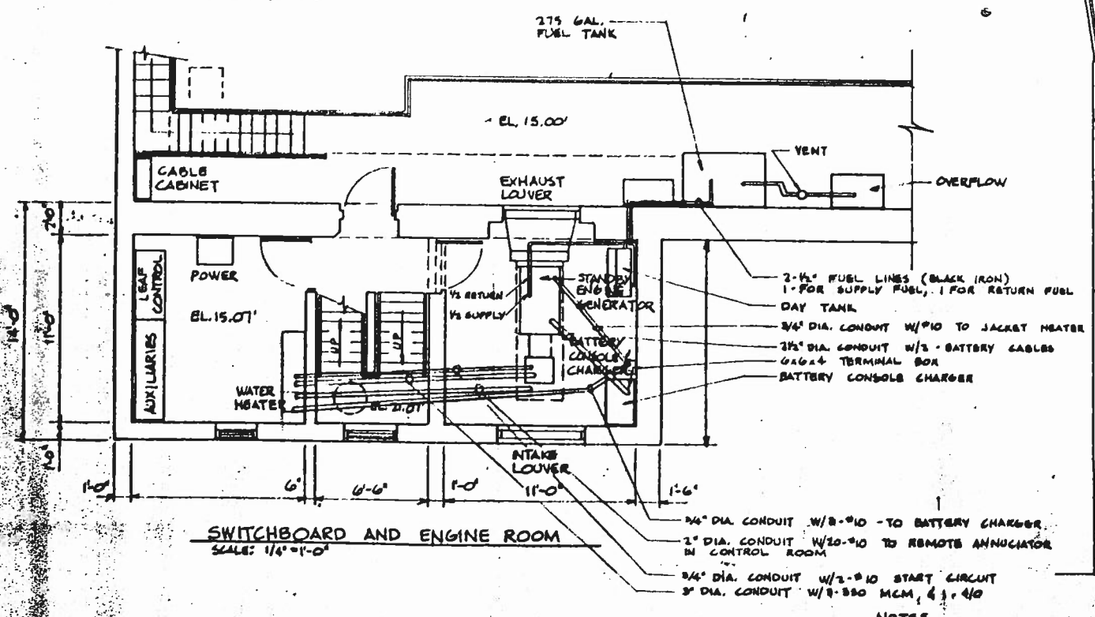


EAST ELEVATION
SCALE: 1/4" = 1'-0"

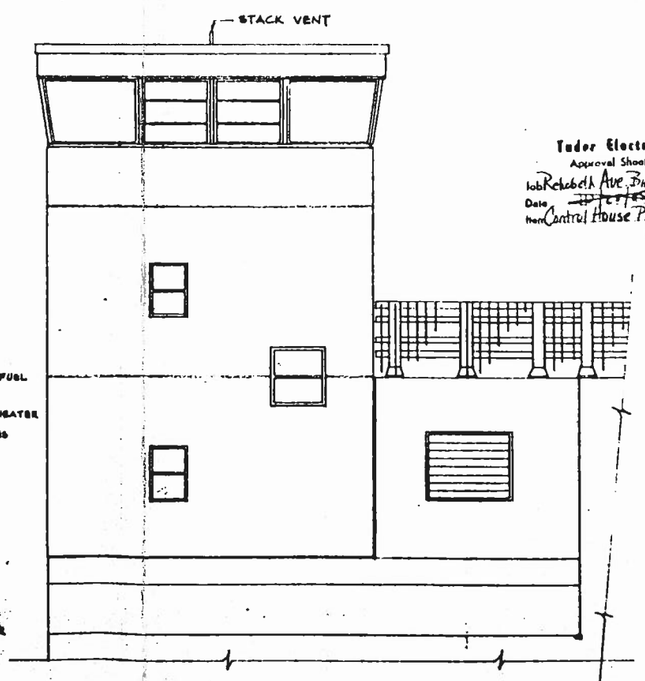
ROADWAY LTG. AND
NAVIGATIONAL LTG.
PHOTOELECTRIC CELLS



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



SWITCHBOARD AND ENGINE ROOM
SCALE: 1/4" = 1'-0"



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

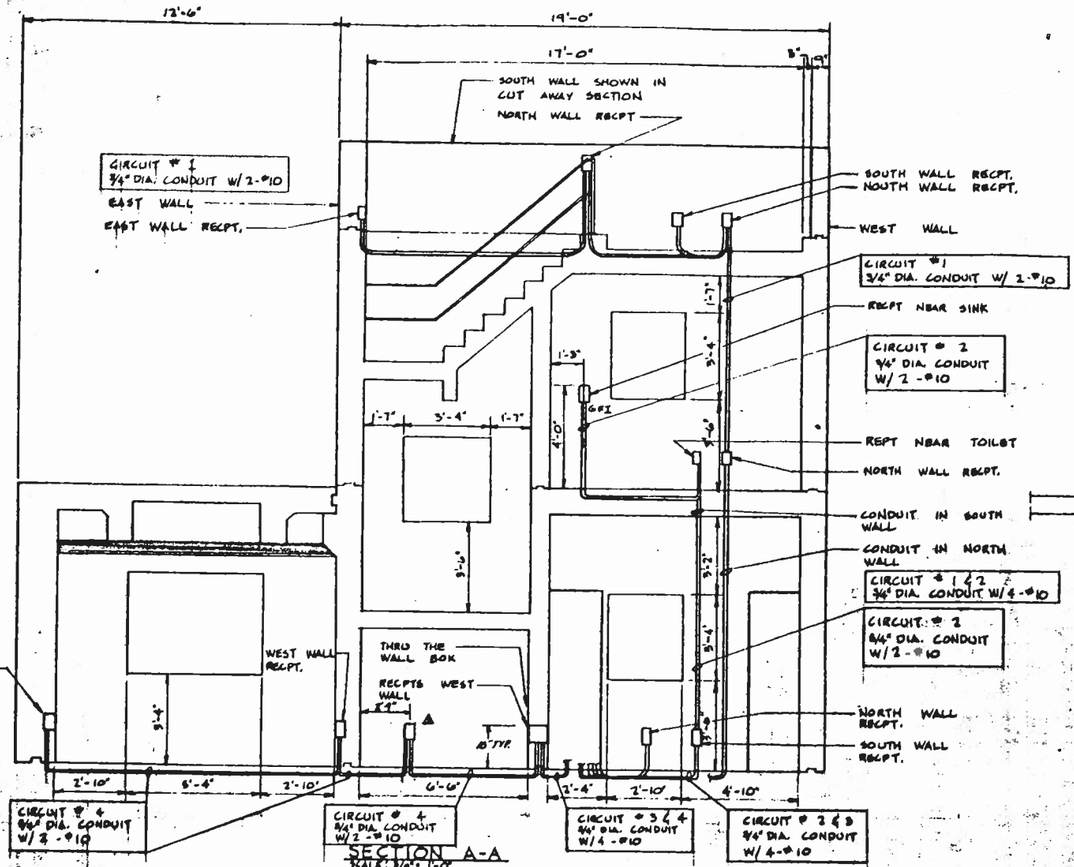
Tudor Electric
Approval Sheet
Job Rehoboth Ave. Bridge
Date ~~10/11/85~~ 12-17-85
Item Control House Plan + Elevation

NOTES.
1. FOR STUB UPS SEE DRAWING E-58
2. WORK THIS DRAWING WITH E63
3. SEE DRWG E64 & E65 FOR STUB UP LOCATIONS OF CONDUITS IN CONTROL HOUSE FLOOR. DO NOT USE THIS DRAWING FOR LAYOUT. THIS IS JUST GENERAL PLAN VIEW

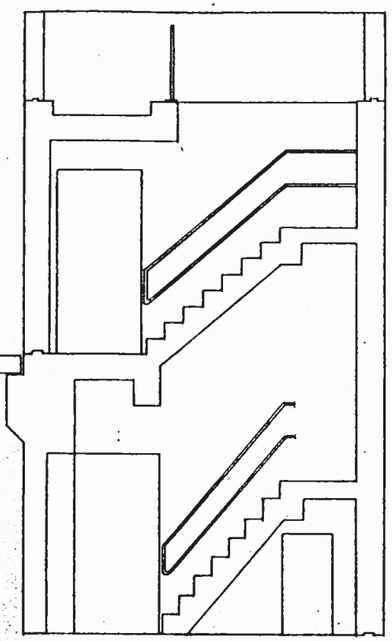
MEMBER N.E.C.A.

TUDOR ELECTRIC, Inc.
Electrical Contractors
1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

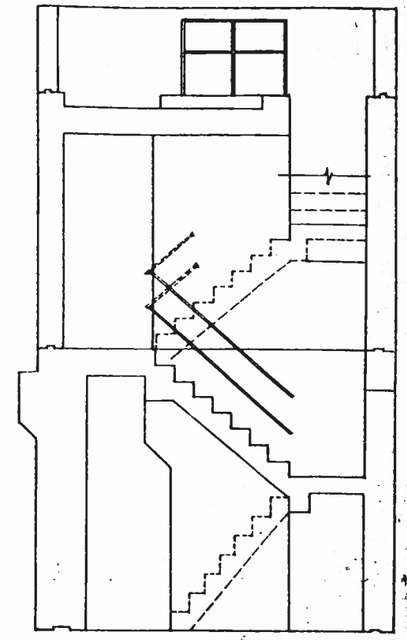
REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE	
1 11/9/85	DRAWN BY: JEL	TITLE: CONTROL HOUSE PLAN AND ELEVATION
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS
	DATE: 10/11/85	DRAWING NO. E61



SECTION A-A
SCALE: 1/8" = 1'-0"

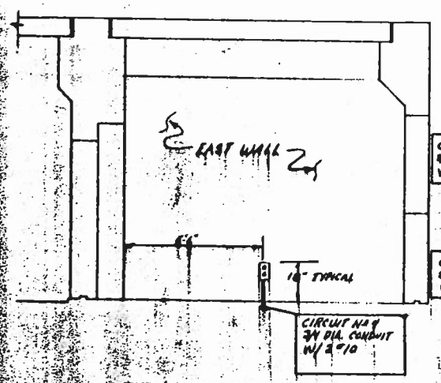


SECTION B-B
SCALE: 1/8" = 1'-0"

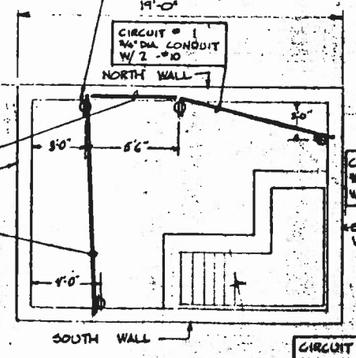


SECTION C-C
SCALE: 1/8" = 1'-0"

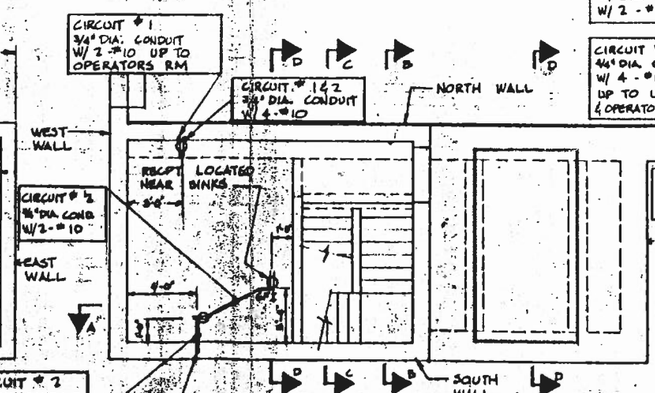
NOTE:
ALL BOXES ARE 1 GANG IN TYPE



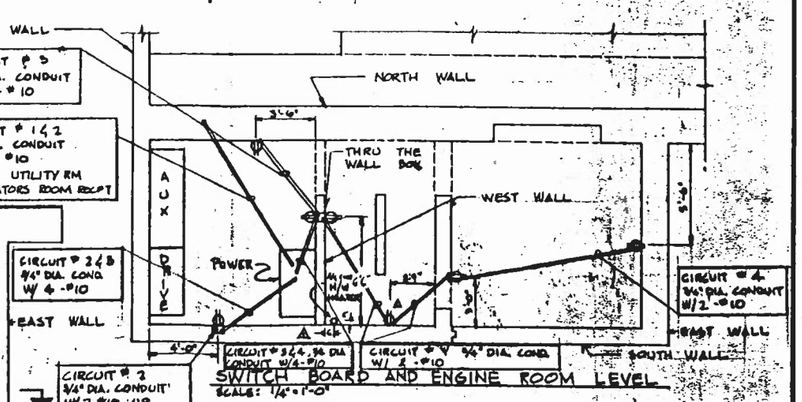
ENGINE ROOM SECTION D-D
SCALE: 1/8" = 1'-0"



OPERATOR'S ROOM
SCALE: 1/4" = 1'-0"



UTILITY AND SIDEWALK LEVEL
SCALE: 1/4" = 1'-0"



SWITCH BOARD AND ENGINE ROOM LEVEL
SCALE: 1/4" = 1'-0"

NOTES:
1. WALL MOUNTED RECEPTACLES TO BE INSTALLED 18" OFF OF FINISHED FLOOR TO TOP OF BOX.
2. WORK THIS DRAWING WITH E64 AND E65.

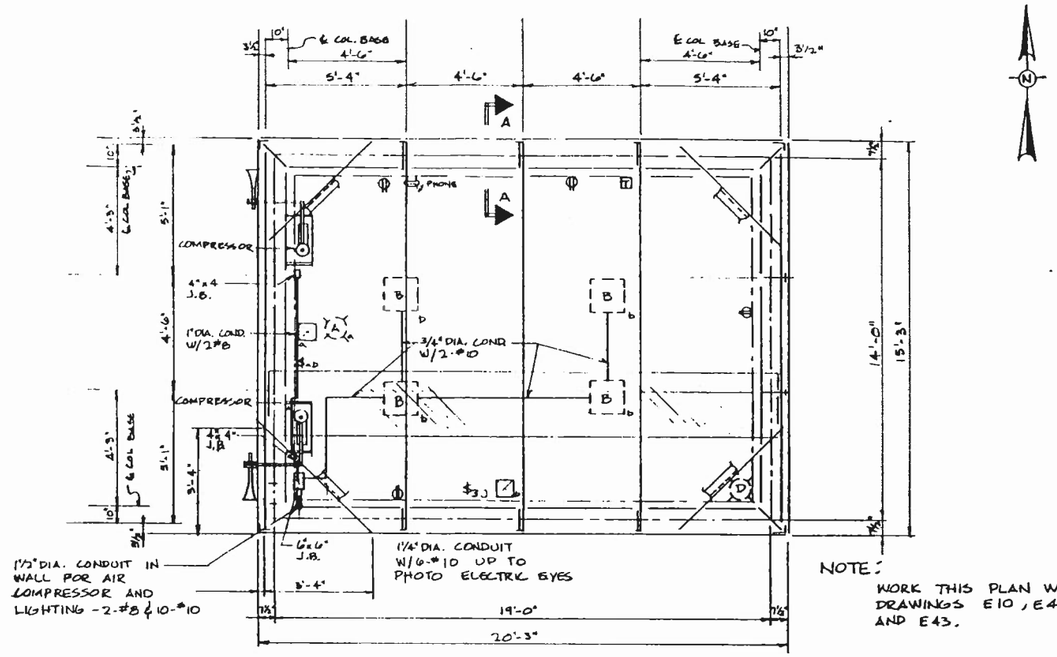
RECPT. LAYOUT

Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 11/21/85
Item Receptacle Layout-Control House

MEMBER N.E.C.A.

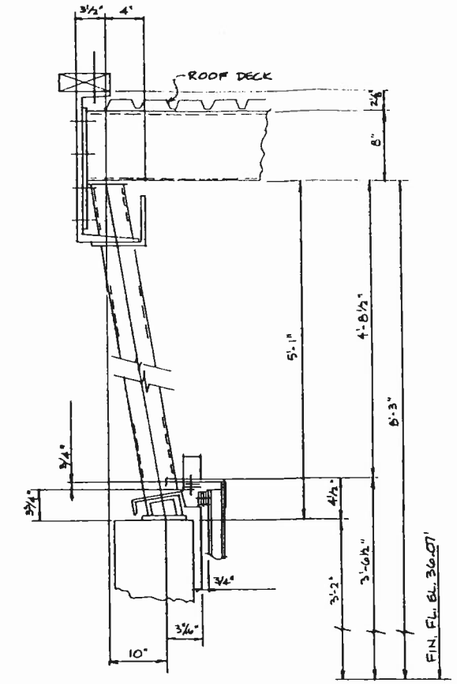
TUDOR ELECTRIC, Inc.
Electrical Contractors
1008 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE	
A 11-21-85 ADD RECPT AND 240 WATER HEATER CONDUIT	DRAWN BY: JEL	TITLE: BASCULE PIER CONTROL HOUSE DETAILS
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS
	DATE: 10/26/85	DRAWING NO. E62



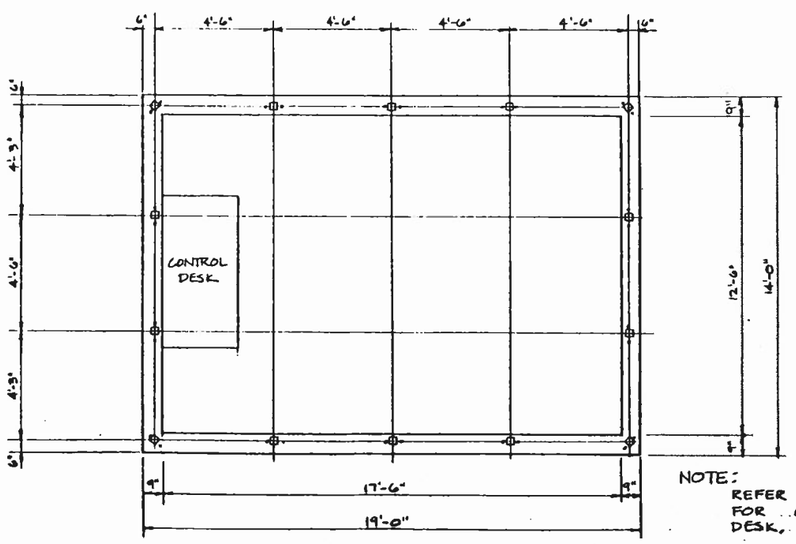
NOTE:
WORK THIS PLAN WITH DRAWINGS E10, E43 AND E43.

CONTROL HOUSE FRAMING PLAN
NO SCALE



NOTE:
REFER TO DRAWING E43 FOR ELECTRIC IN COLUMN.

SECTION A-A
NO SCALE



NOTE:
REFER TO DRAWING E64 FOR CONDUITS IN CONTROL DESK.

CONTROL HOUSE ANCHOR BOLT SETTING PLAN
NO SCALE

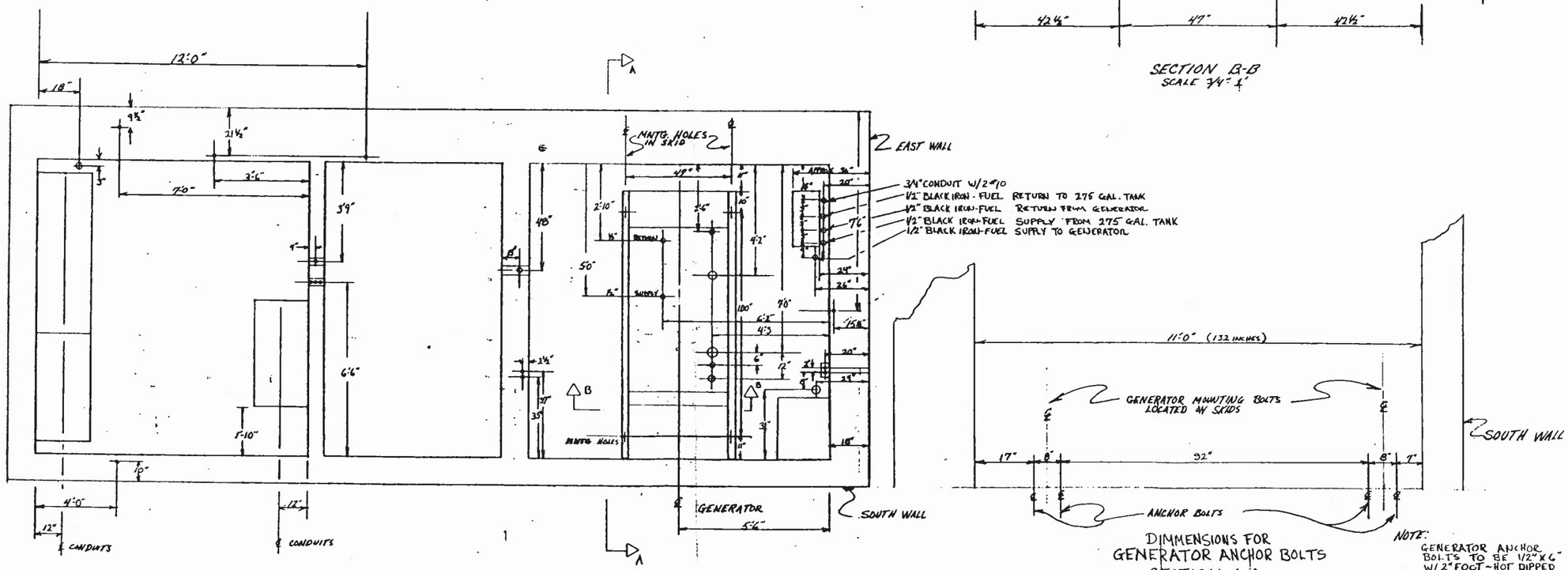
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 12/17/85
Item Control House Lighting

MEMBER I.C.A.D.
Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE BASCULE PIER CONTROL HOUSE	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E63
	DATE 11/22/85		



SCALE 1/2" = 1'

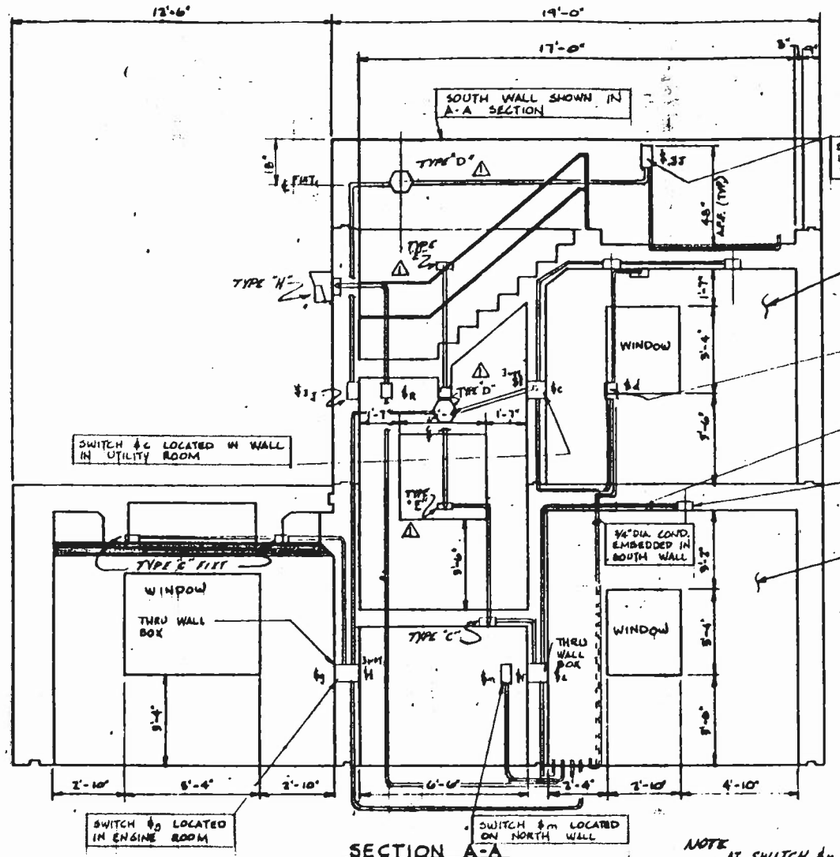
WORK THIS DRWG W/ E65

Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 10-23-85
Item Conduit Stub-ups @ Control House EL 12.07

MEMBER E. C. A. D.
Residential Commercial Industrial

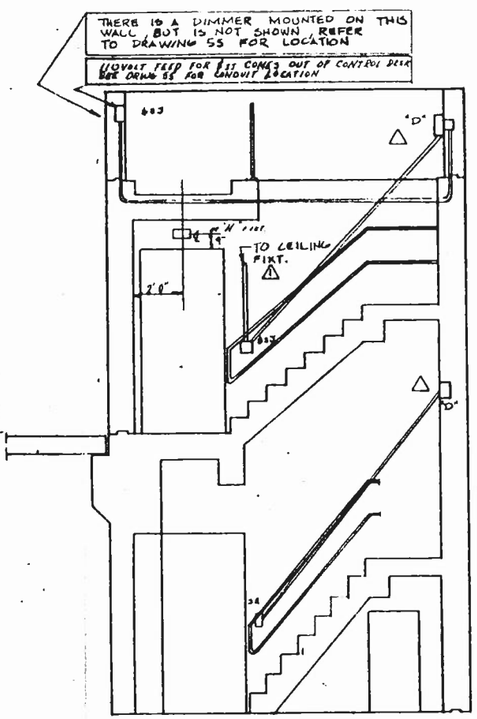
TUDOR ELECTRIC, Inc.
Electrical Contractors
1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 735-1444

REVISIONS	PROJECT REHOBOTH AVE. BRIDGE	
1 11/9/85	DRAWN BY: B.T.	TITLE GEN ROOM CONDUIT DETAILS
	SCALE AS SHOWN	OWNER STATE OF DEL. DEPT. OF TRANS. DIV. OF HIGHWAYS
	DATE 10-22-85	DRAWING NO. E64

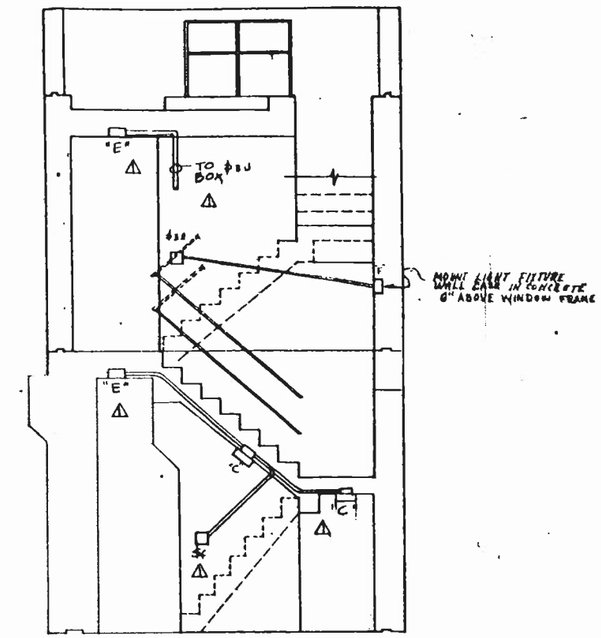


SECTION A-A
SCALE: 1/4"=1'-0"
CONDUIT RISER PROFILE
FOR LIGHTING ONLY

NOTE
AT SWITCH $m ONLY THE FEED CONDUIT IS SHOWN, THERE ARE 2 OTHER CONDUITS REQUIRED REFER TO DRWG E 67 FOR LOCATIONS

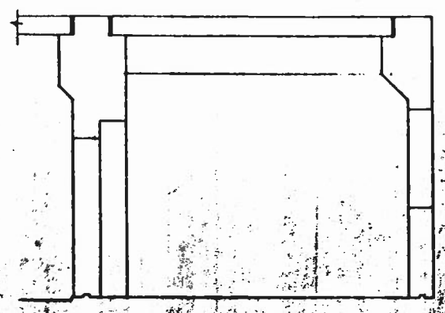


SECTION B-B
SCALE: 1/4"=1'-0"

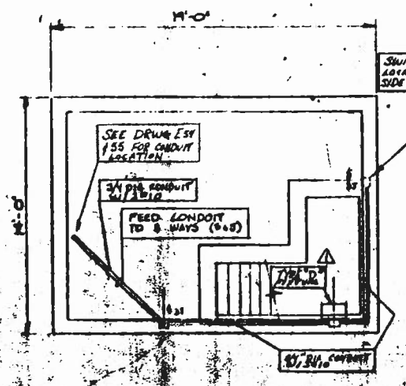


SECTION C-C
SCALE: 1/4"=1'-0"

Tudor Electric
Approval Stamp
Rehoboth Ave. Bridge
Date 12-17-85
Central House Lighting

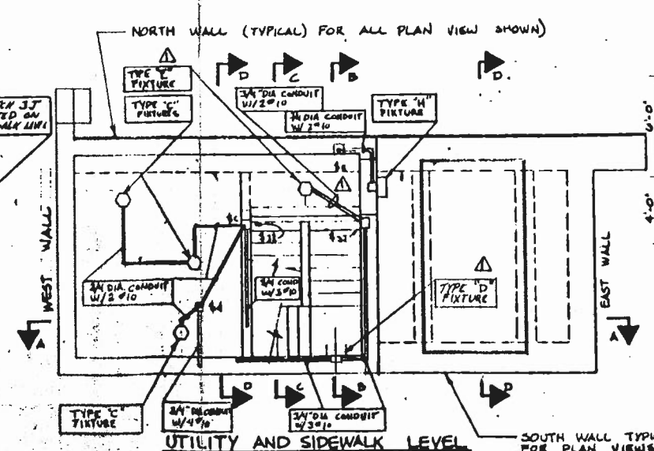


SECTION D-D
SCALE: 1/4"=1'-0"



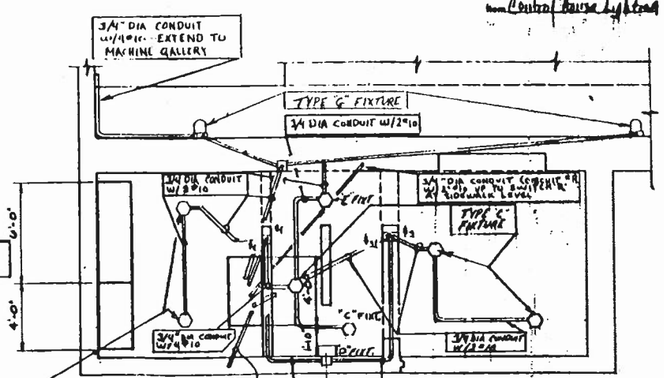
OPERATOR'S ROOM
SCALE: 1/4"=1'-0"

NOTE
WORK DRWG E-54 & 55 FOR ADDITIONAL CONDUIT BOX UP'S & LOCATIONS FOR OPERATOR'S ROOM



UTILITY AND SIDEWALK LEVEL
SCALE: 1/4"=1'-0"

FOR DIMMESIONS ON LIGHT FIXT. AND SWITCHES REFER TO DRWG E-12

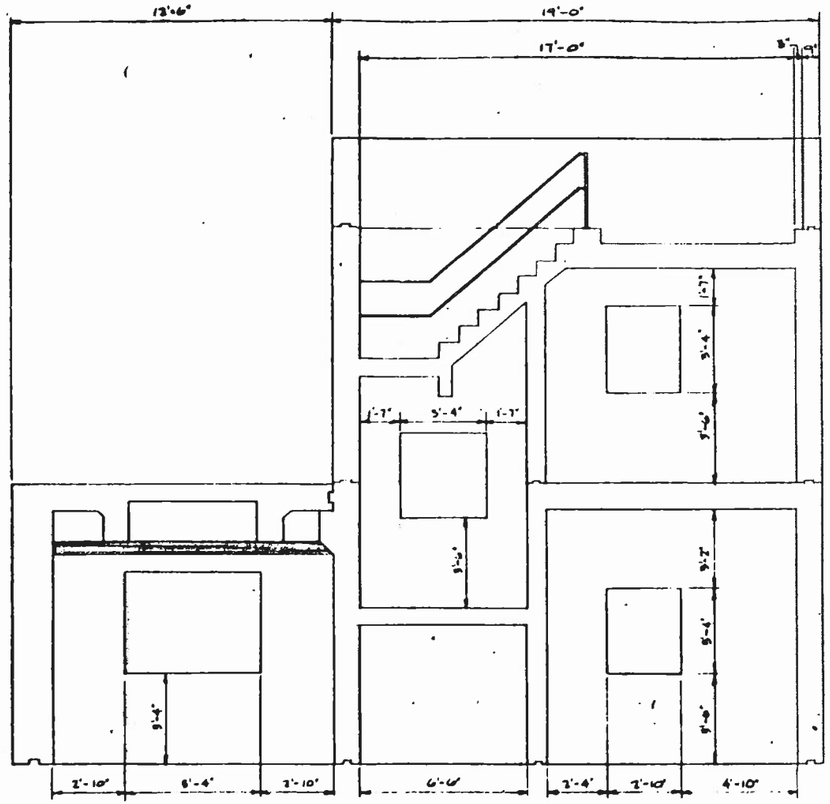


SWITCH BOARD AND ENGINE ROOM LEVEL
SCALE: 1/4"=1'-0"

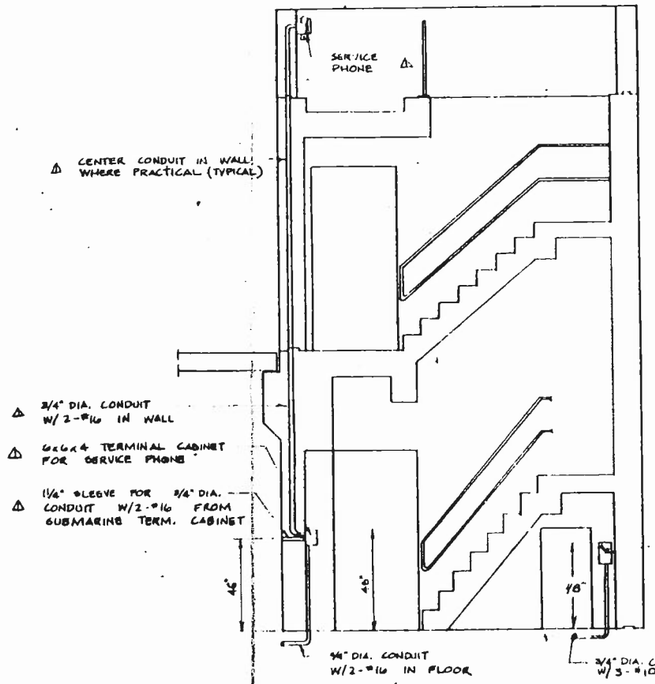
MEMBER I.A.O.
Electrical
Communication
Electrical

TUDOR ELECTRIC, Inc.
Electrical Contractors
1086 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

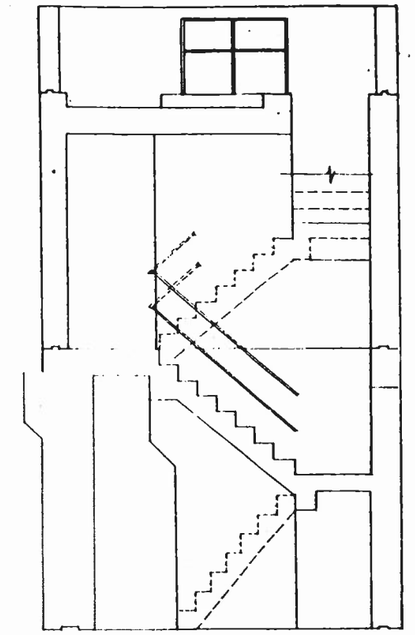
REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
1 12/16/85	DRAWN BY: JEL	TITLE LIGHTING FOR BASCULE PIER CONTROL HOUSE DETAILS	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E-66
	DATE 10-31-85		



SECTION A-A
SCALE: 1/8" = 1'-0"

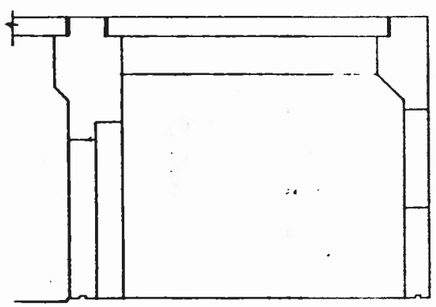


SECTION B-B
SCALE: 1/8" = 1'-0"

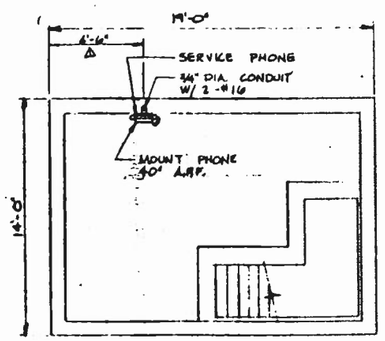


SECTION C-C
SCALE: 1/8" = 1'-0"

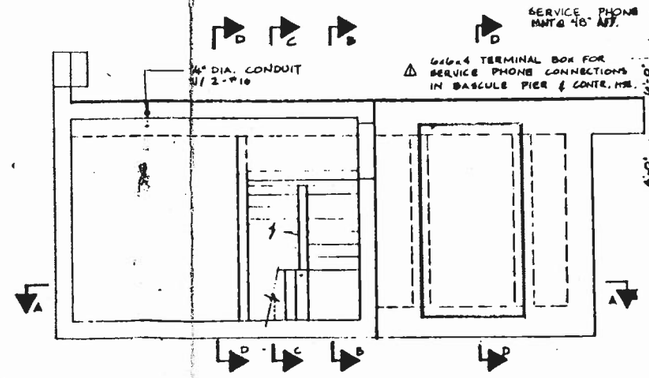
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 11/21/85
Item Misc Electric Control House



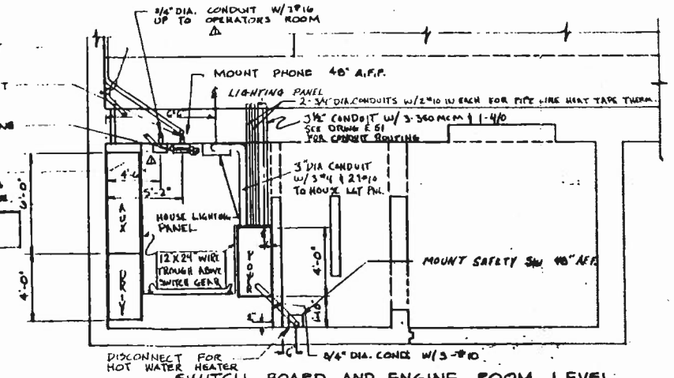
SECTION D-D
SCALE: 1/8" = 1'-0"



OPERATOR'S ROOM
SCALE: 1/4" = 1'-0"



UTILITY AND SIDEWALK LEVEL
SCALE: 1/4" = 1'-0"



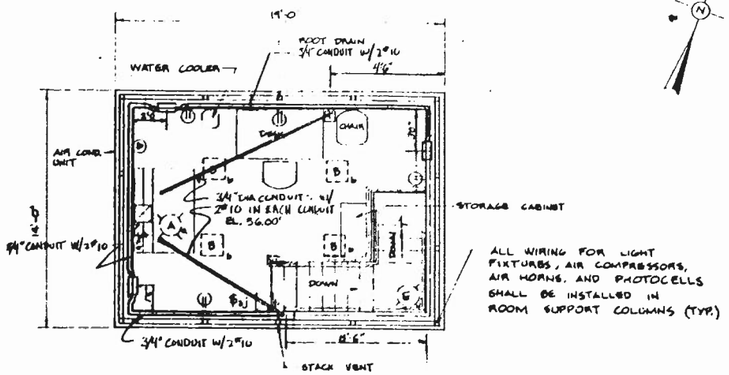
SWITCH BOARD AND ENGINE ROOM LEVEL
SCALE: 1/4" = 1'-0"

MEMBER N.E.C.A.

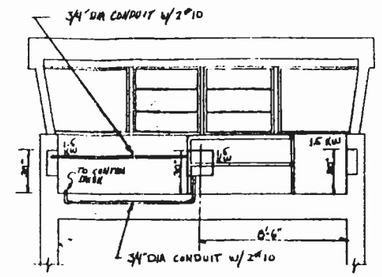
TUDOR ELECTRIC, Inc.
Electrical Contractors

1088 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

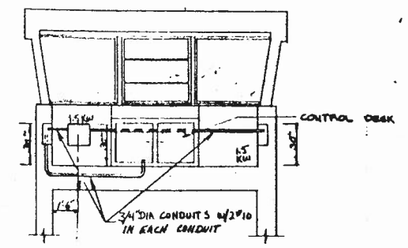
REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
1 11/11/85	DRAWN BY: JEL	TITLE BASCULE PIER CONTROL HOUSE DETAILS	
2 11/14/85 - ADD LGT PANEL	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E67
	DATE 11/5/85		



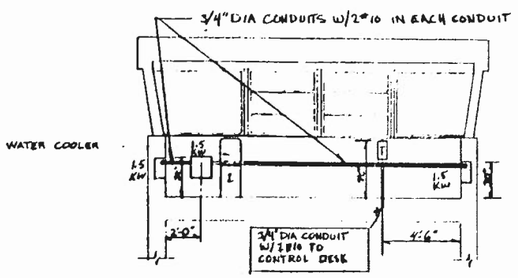
PLAN - OPERATOR'S ROOM
SCALE: 1/4" = 1'-0"



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

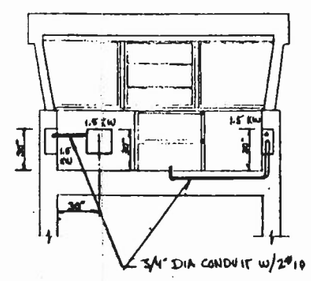


WEST ELEVATION
SCALE: 1/4" = 1'-0"



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

ALL WALL HEATERS IN OPERATORS ROOM WILL BE 1.5 KW



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

LEGEND

1.5 ☐ WALL HEATER, KW RATING NEXT TO SYMBOL

Tudor Electric
Approved Shop
Job Rehoboth Ave Bridge
Date 11/21/85
Item Heating Conduit Layout Operators Room

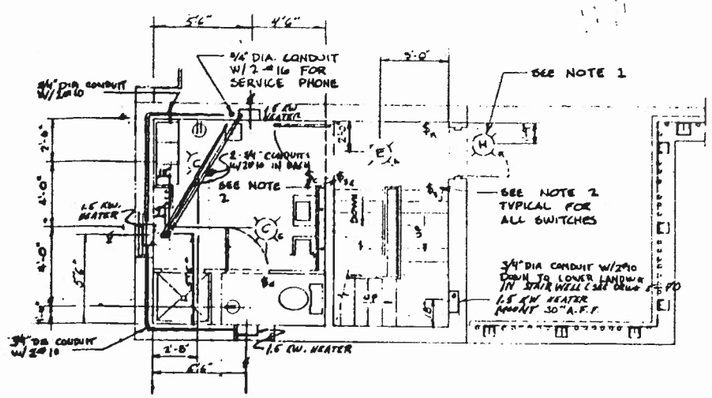
MEMBER N.E.C.A.

TUDOR ELECTRIC, Inc.
Electrical Contractors

Residential
Commercial
Industrial

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE	
	DRAWN BY: JSL	TITLE HEATING CONDUIT LAYOUT FOR OPERATOR'S ROOM
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF MAINTENANCE
	DATE	DRAWING NO. E 68

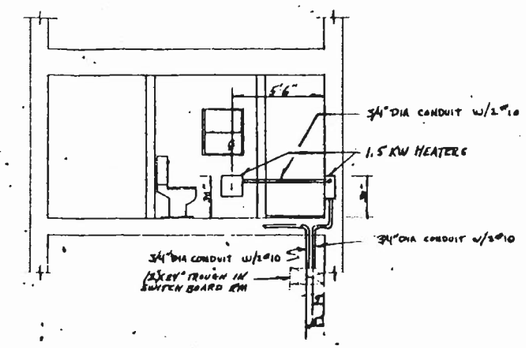


PLAN - UTILITY ROOM

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

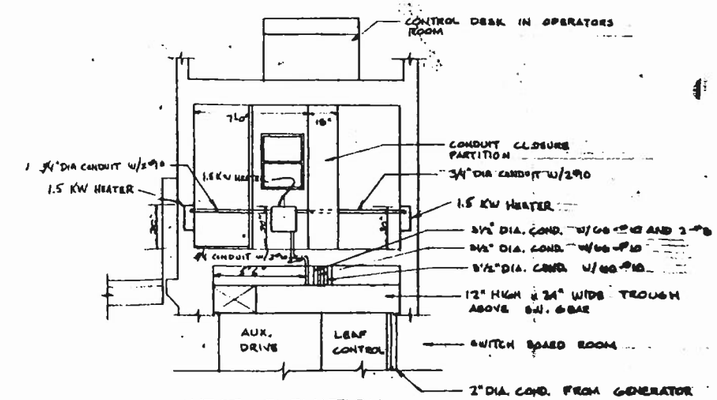
NOTES:

1. MOUNT LIGHT FIXTURE "H" 9" OVER DOOR JAM.
2. MOUNT ALL SWITHES 6" OFF DOOR JAM AND 48" A.F.F.
3. SEE DRWG E-66 FOR CONDUIT RISER DIAGRAM FOR STAIRWELL HEATERS WORK THIS DRWG WITH DRWG E-70



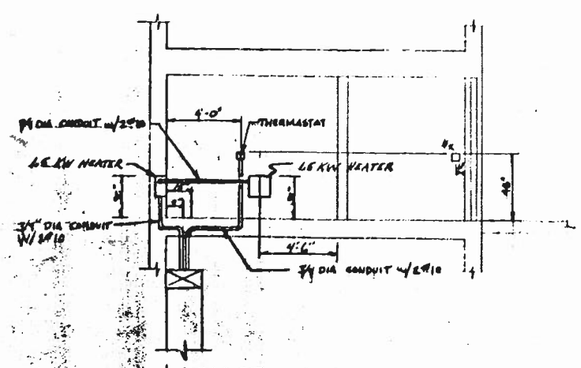
SOUTH ELEVATION

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



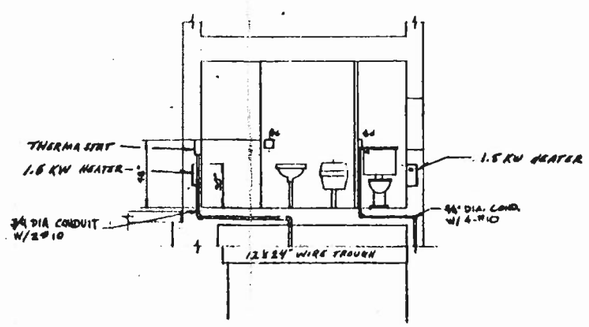
WEST ELEVATION

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



NORTH ELEVATION

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



EAST ELEVATION

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

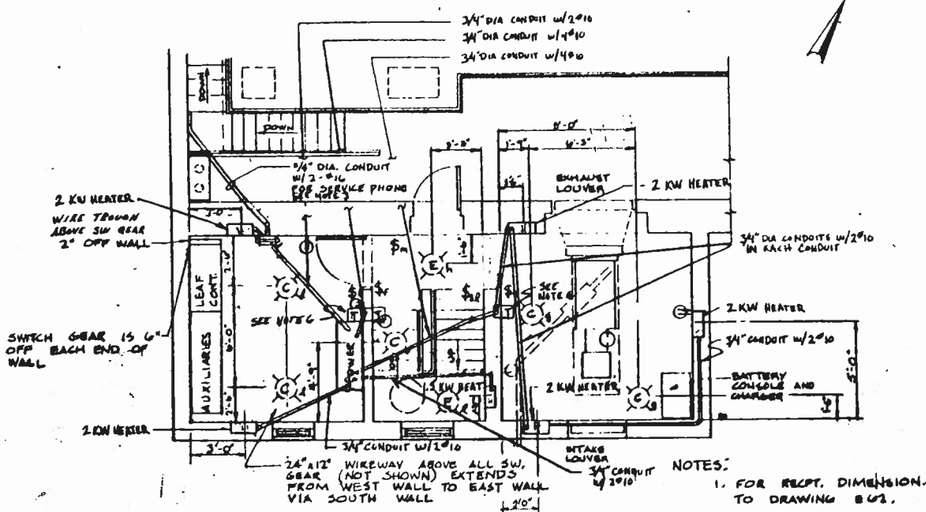
Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 11/21/85
Item Heating Conduit Layout @ Utility Room

MEMBER N.E.C.A.

TUDOR ELECTRIC, Inc.
Electrical Contractors

1066 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE	
11/19/85 ADDED SW. BOARD & MISC EQUIP ON WEST ELEVATION	DRAWN BY: JEL	TITLE HEATING CONDUIT LAYOUT FOR UTILITY ROOM
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS
	DATE 11/5/85	DRAWING NO. E-69

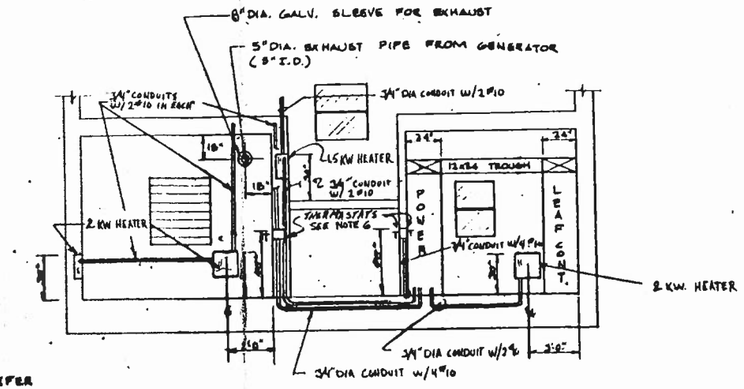


PLAN - SWITCHBOARD AND ENGINE ROOM

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

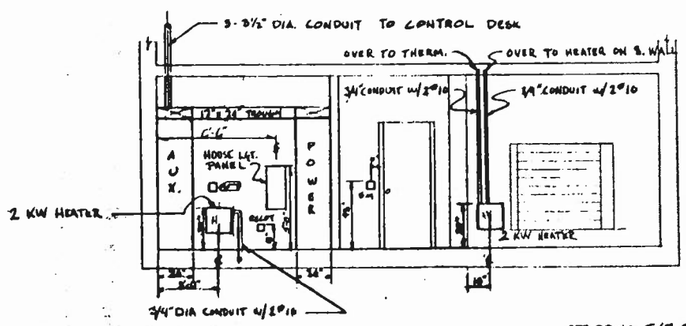
NOTES:

1. FOR RECPT. DIMENSION. REFER TO DRAWING E-61.
2. ALL SWITCHES TO BE 6" OFF DOOR JAM AND 48" ABOVE FINISHED FLOOR.
3. MOUNT SERVICE PHONE 48" A.F.F.
4. SEE DRWG E-62 & 66 FOR CONDUIT RISERS
5. ALL WALL HEATERS TO BE MOUNTED 30" A.F.F.
6. MOUNT ALL THERMASTATS 48" A.F.F. & 12" OFF DOOR JAM



SOUTH ELEVATION

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



SEE DRWG E 67 FOR HOUSE LIGHTING PANEL FOR CONDUIT & WIRE SIZES

NORTH ELEVATION

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

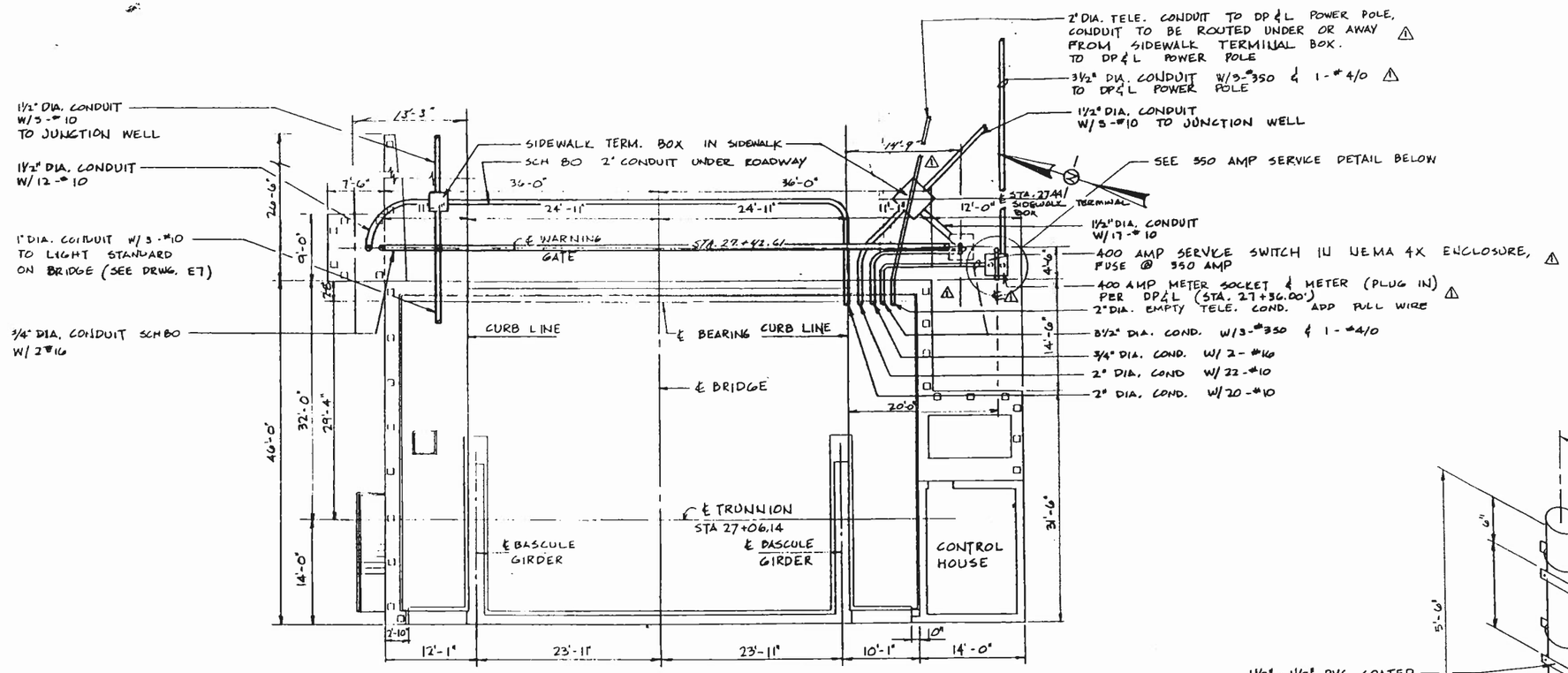
Tudor Electric
Approval Sheet
Job: Rehoboth Ave Bridge
Date: 11/21/88
Item: Heating Conduit Layout
Specification: Engineer Repo

MEMBER N.E.A.C.

TUDOR ELECTRIC, Inc.
Electrical Contractors

1066 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
11/14/88 - ADDED SW. GEAR & ENGINE ROOM; MORE DETAIL ELEVATION	DRAWN BY: JEL	TITLE - HEATING CONDUIT LAYOUT FOR SWITCHBOARD & ENGINE ROOM	
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRANSPORTATION DIVISION OF BRIDGES	DRAWING NO. 78
	DATE: 11/15/88		

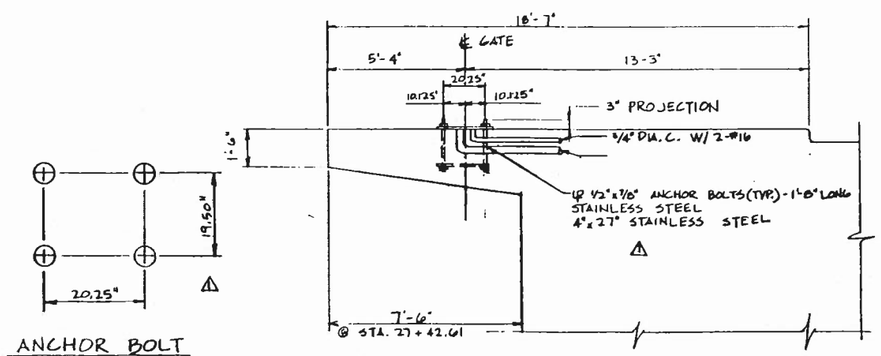


PLAN

SCALE ⅛" = 1'-0"

NOTE:

REFER TO DRAWINGS E18, E19 AND E46 FOR ADDITIONAL DETAIL.



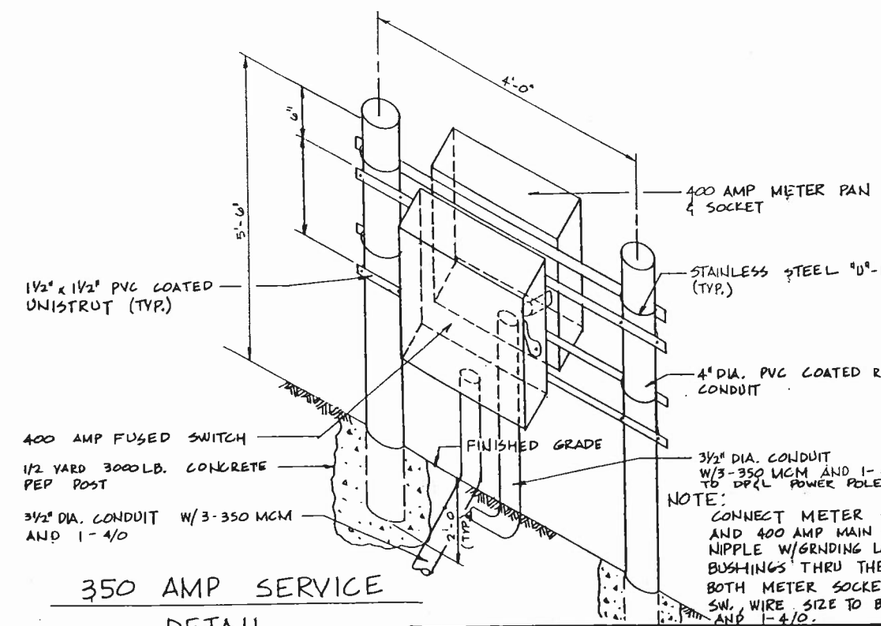
CANTALIEVER SLAB

SCALE: ⅜" = 1'-0"

(N.E. WARNING GATE)

ANCHOR BOLT PLAN

NO SCALE



NOTE:

CONNECT METER SOCKET AND 400 AMP MAIN SW. WITH 3½" NIPPLE W/GRNDING LOCK NUTS & BUSHINGS THRU THE BACK OF BOTH METER SOCKETS & MAIN SW., WIRE SIZE TO BE 3-350 MCM AND 1-4/0.

350 AMP SERVICE DETAIL

NO SCALE

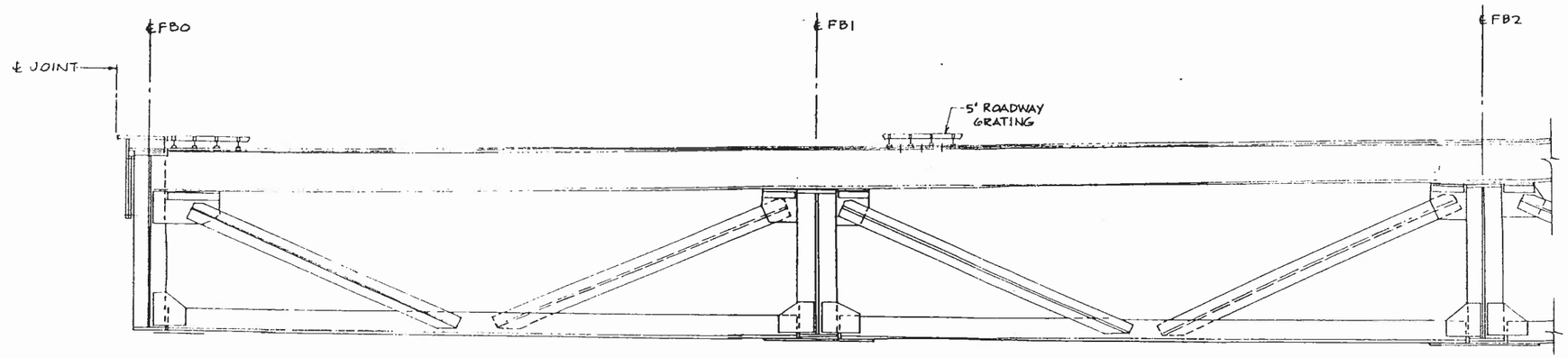
Tudor Electric
Approval Sheet
Job: Rehoboth Ave Bridge
Date: 2/18/86
Item: East Approach + Service Detail

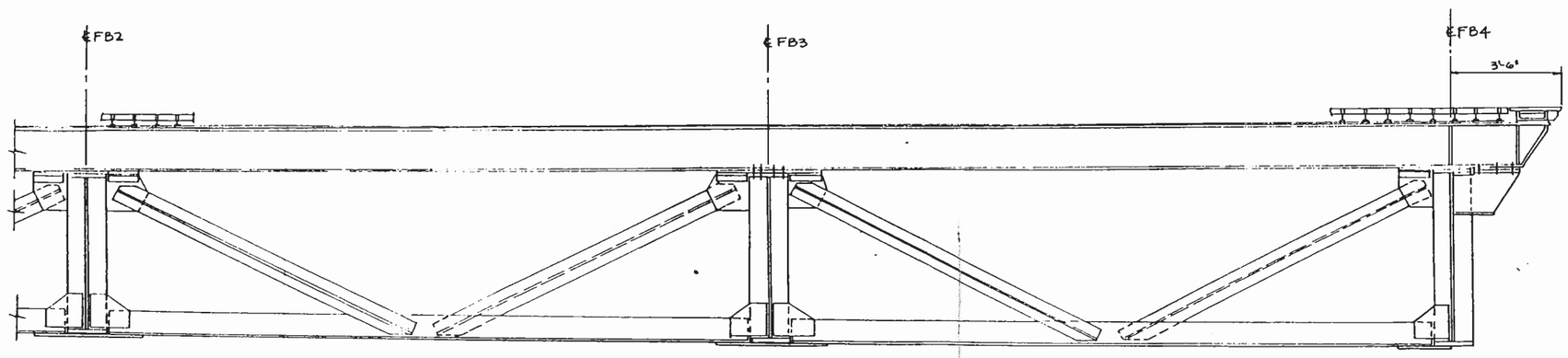
MEMBER E.C.A.D.

TUDOR ELECTRIC, Inc.
Electrical Contractors
Residential Commercial Industrial

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHBOTH AVENUE BRIDGE	
1 - 2/5/86	DRAWN BY: JEL	TITLE: BASCULE PIER PLAN AND ELEVATION
	SCALE: AS SHOWN	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS
	DATE: 12/11/85	DRAWING NO. E71





LONGITUDINAL BRACING
SCALE: 1/2" = 1'-0"

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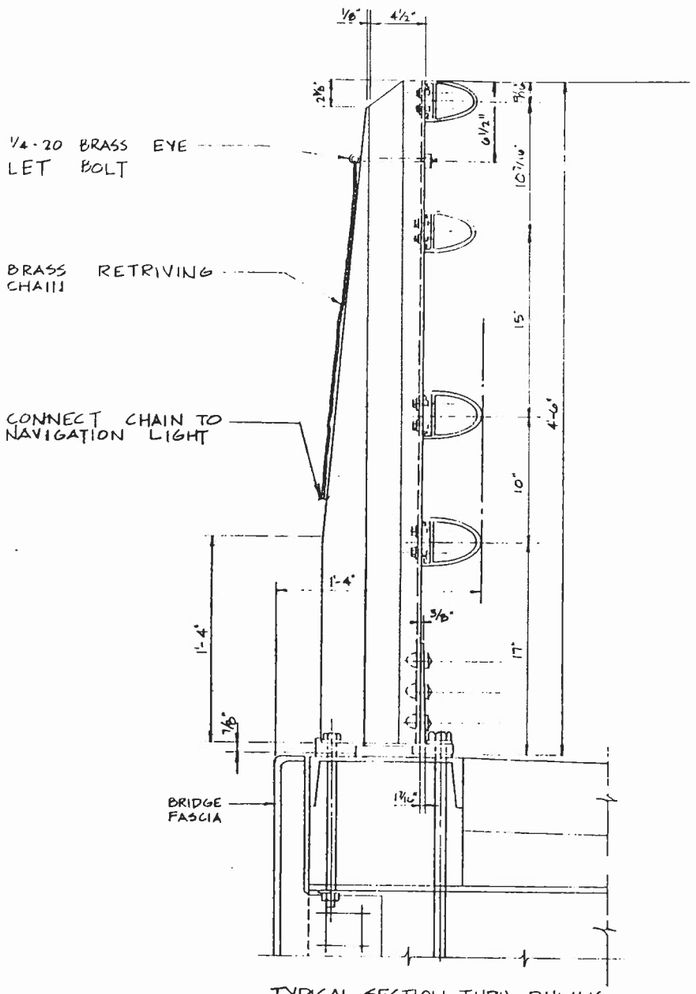
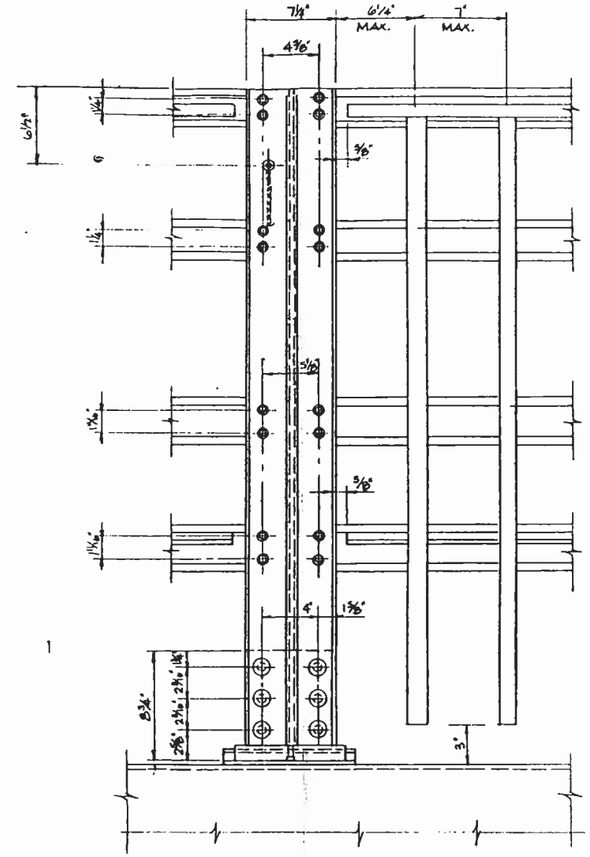
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE BASCULE SPAN LONGITUDINIAL BRACING	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E72
	DATE 12/11/85		



TYPICAL SECTION THRU RAILING
NO SCALE



OUTSIDE ELEVATION OF RAILING

NOTE:
WORK THIS DRAWING WITH E74

MEMBER T.C.A.D.
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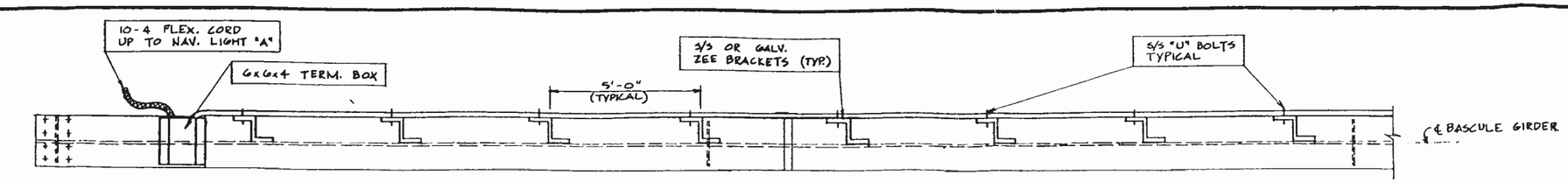
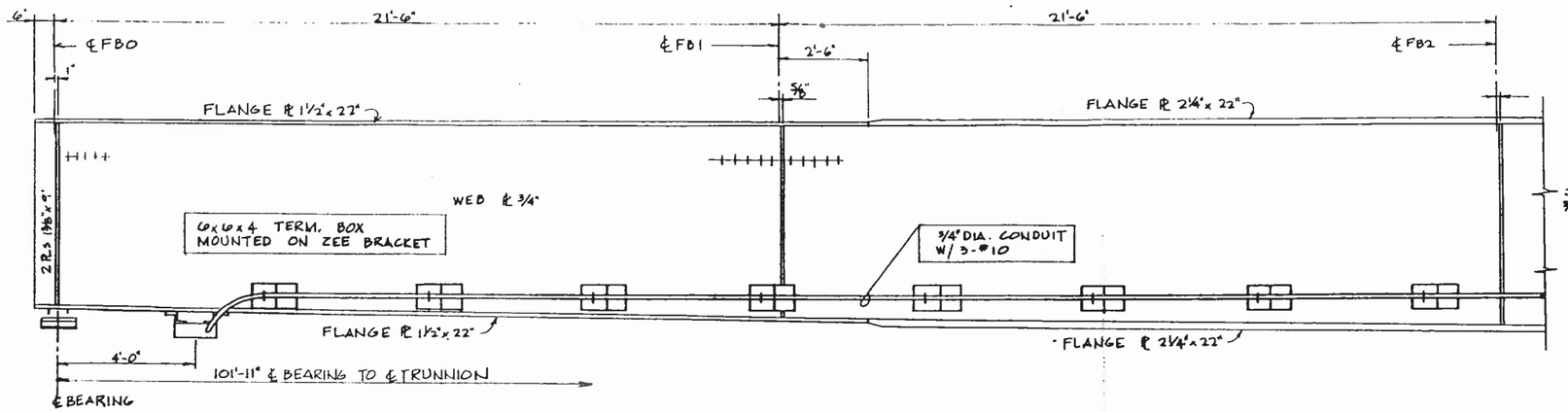
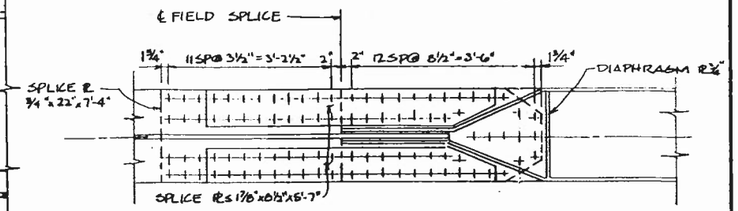
Electrical Contractor

1066 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

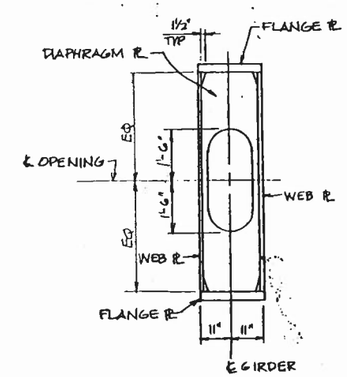
REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE: BRIDGE RAILING DETAILS	
	SCALE: NO SCALE	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E73
	DATE: 12/12/85		



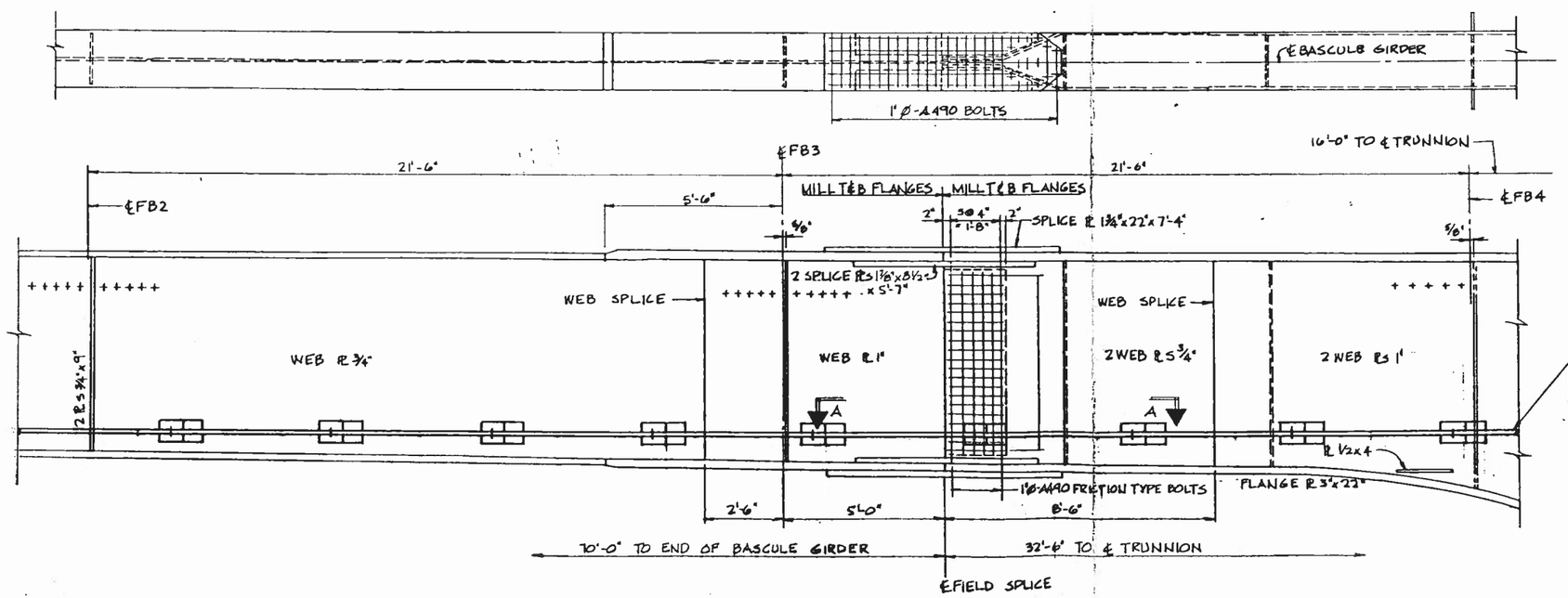




FIELD FLANGE SPLICE
SECTION A-A
(BOTTOM FLANGE SHOWN, TOP FLANGE SIMILAR)
SCALE 3/4" = 1'-0"



TYPICAL BOX GIRDER SECTION



BASCULE GIRDER
SCALE: 1/2" = 1'-0"

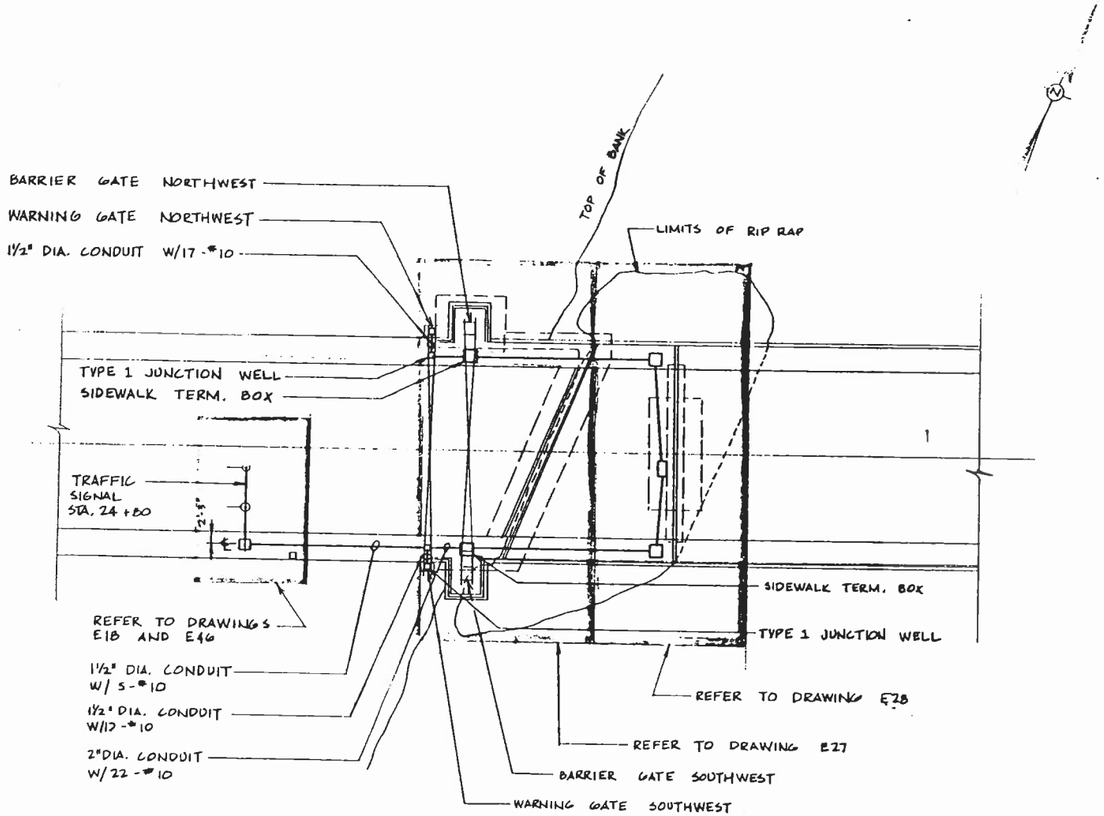
MEMBER E.L.A.D
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

Tudor Electric
Approval Sheet
Job Rehoboth Ave Bridge
Date 2/18/86
Item Conduit on Bascule Leaf

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE BASCULE SPAN GIRDER DETAILS II	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E74
	DATE 12/14/85		



PLAN

SCALE: 1" = 20'

MEMBER I.C.A.B

Residential
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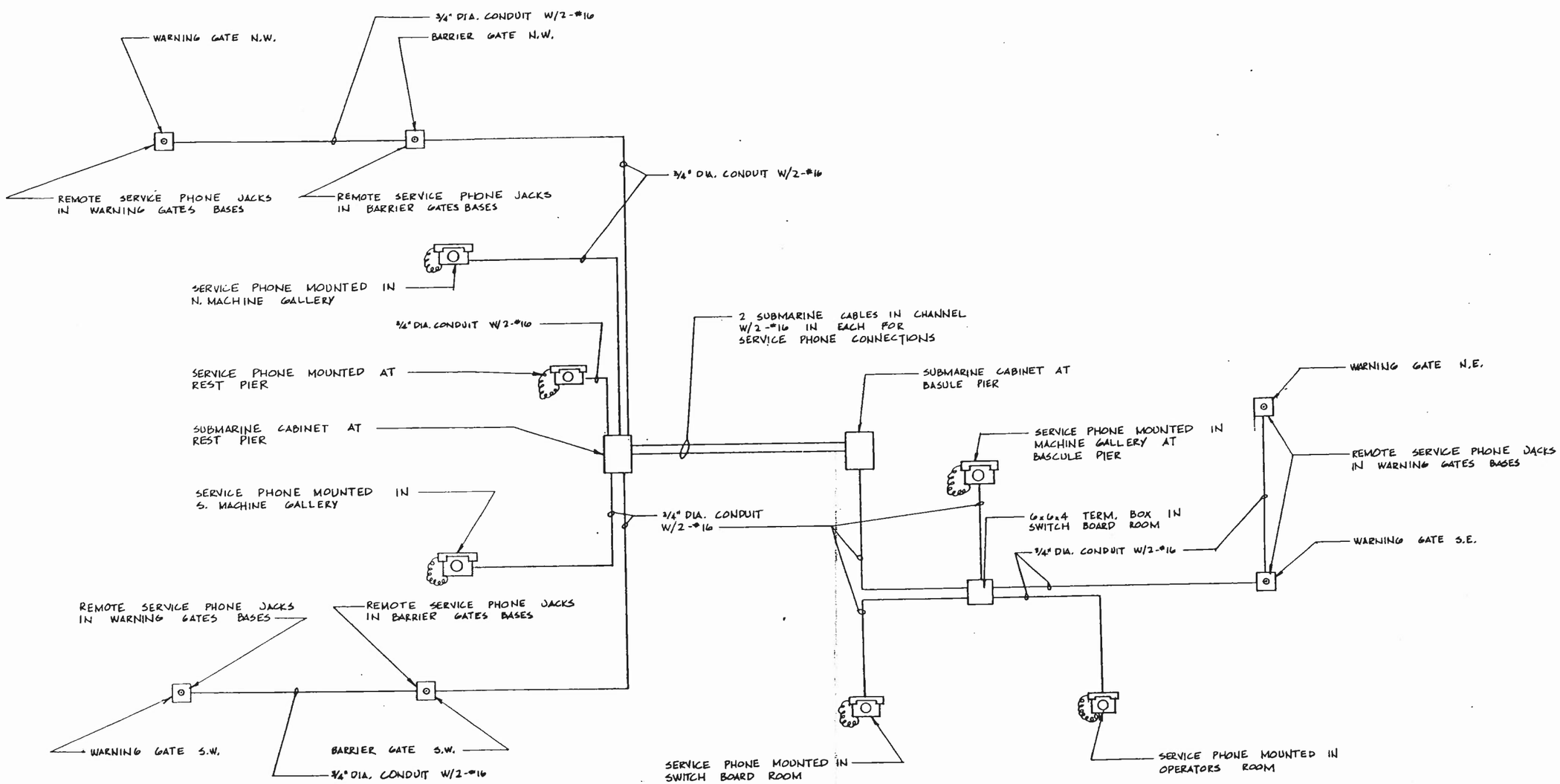
TUDOR ELECTRIC, Inc.

Electrical Contractor

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE WEST: APPROACH AT BASCULE BRIDGE	
	SCALE AS SHOWN	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E76
	DATE 1/10/86		



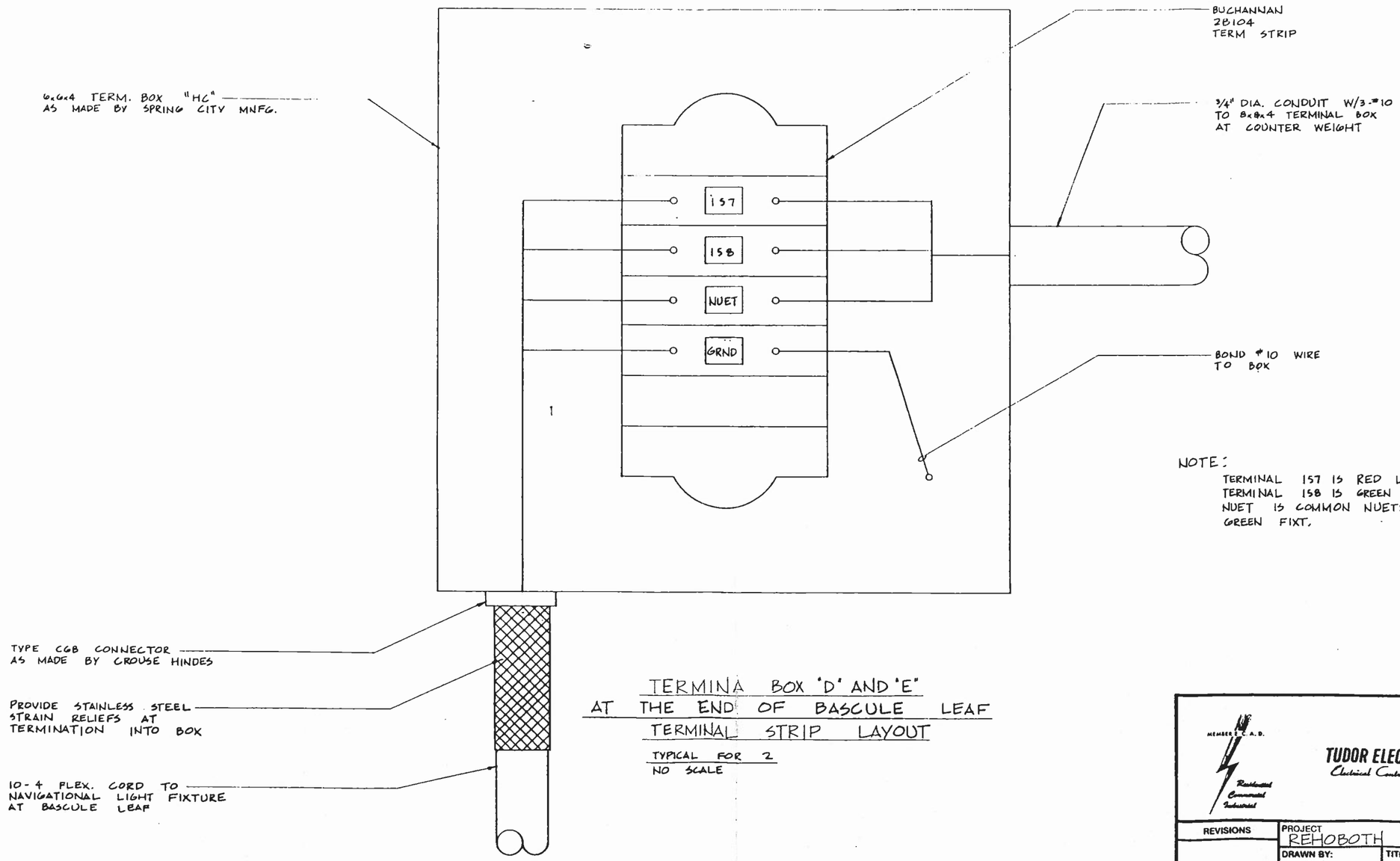
MEMBER E.C.A.D.

Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE ONE LINE DIAGRAM OF SERVICE PHONE	
	SCALE NO SCALE	OWNER STATE OF DLAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E77
	DATE 1/12/86		



NOTE:

TERMINAL 157 IS RED LENSE ON NAV. FIXT.
TERMINAL 158 IS GREEN LENSE ON NAV. FIXT.
NUET IS COMMON NUETRAL FOR: RED AND GREEN FIXT.

TERMINA BOX 'D' AND 'E'
AT THE END OF BASCULE LEAF
TERMINAL STRIP LAYOUT

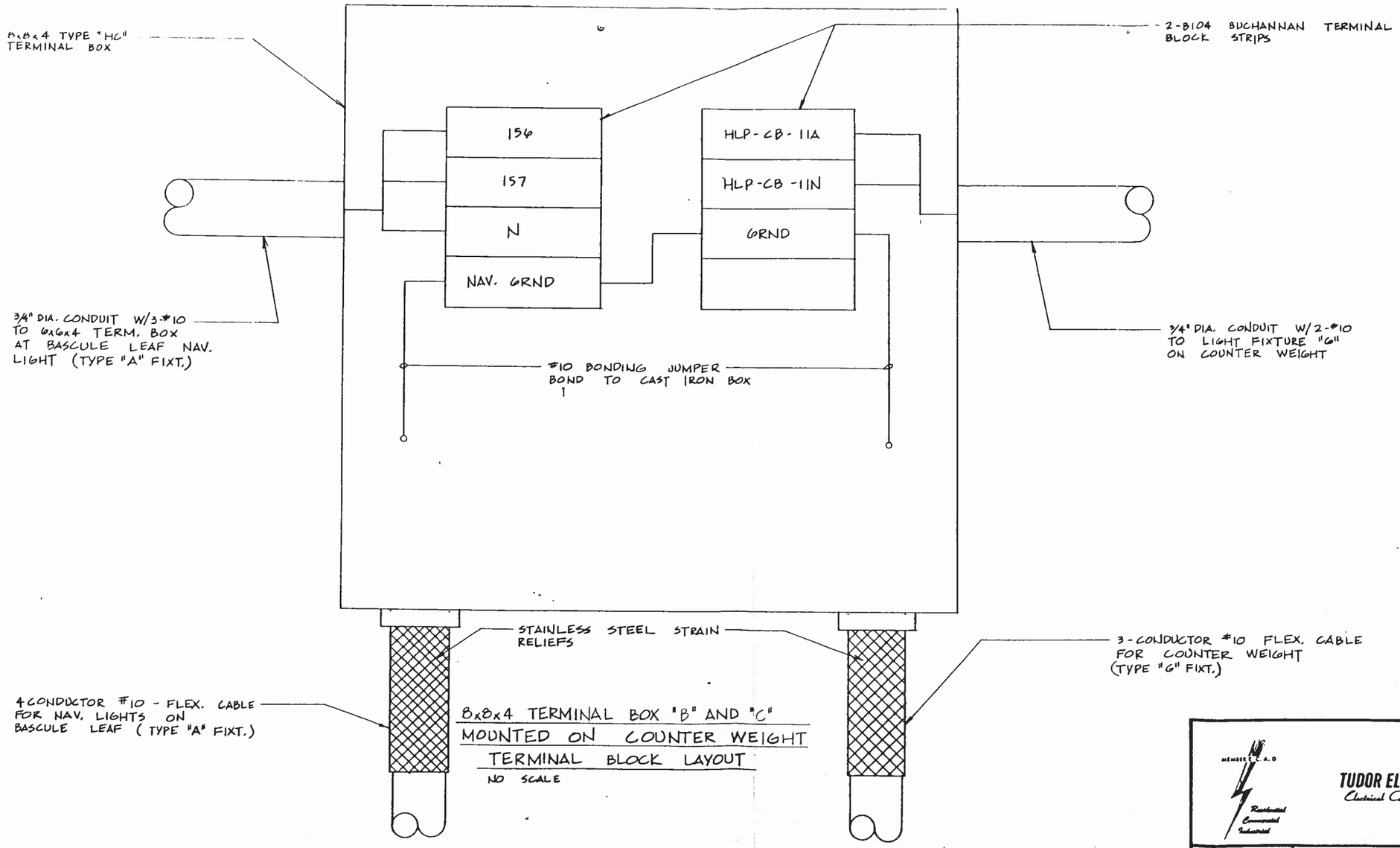
TYPICAL FOR 2
NO SCALE

MEMBER E.C.A.D.
Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: DEL	TITLE DETAIL OF TERM. BOX AT END OF BASCULE LEAF	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E78
	DATE 2/3/86		



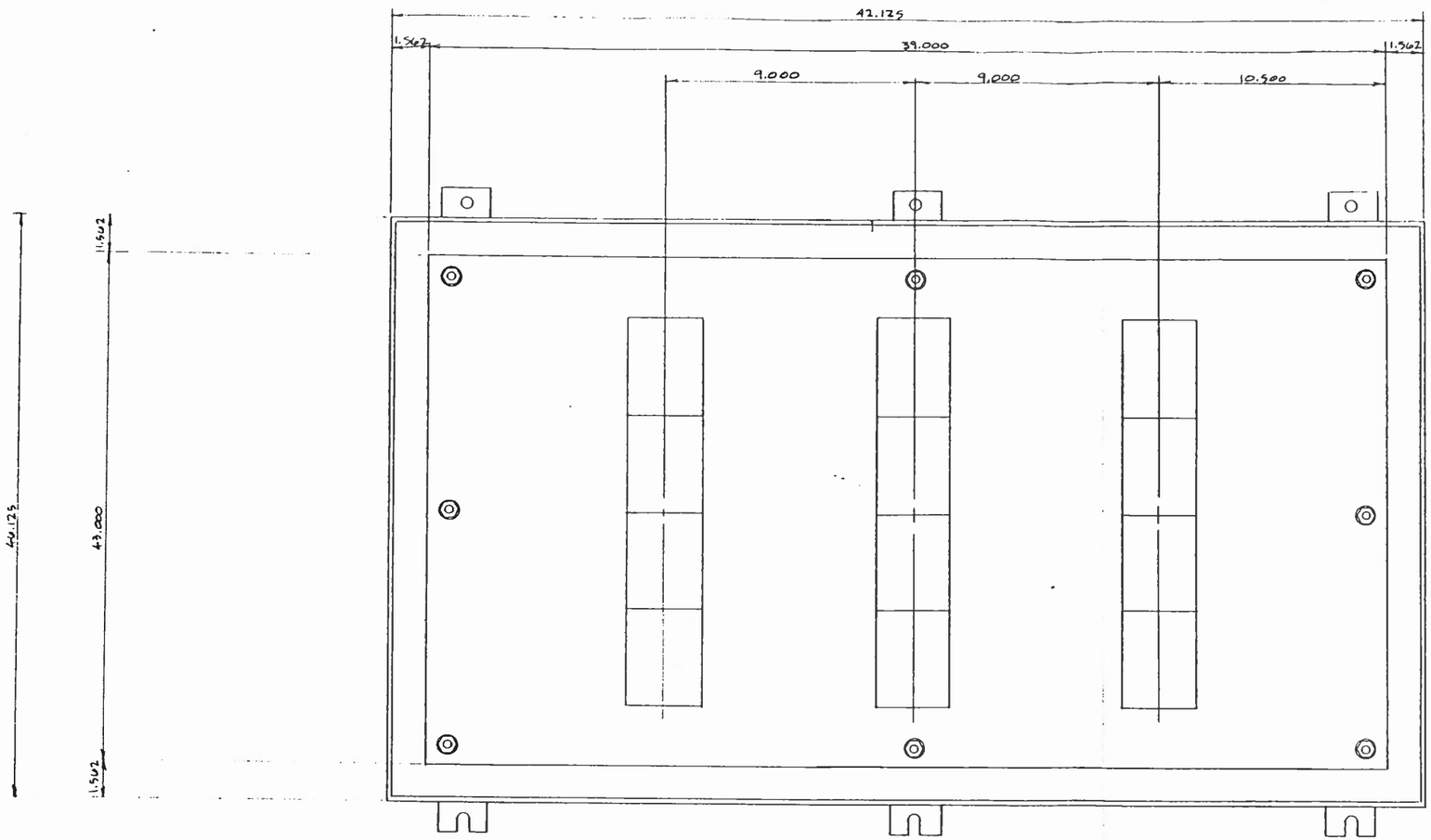
8x8x4 TERMINAL BOX "B" AND "C"
MOUNTED ON COUNTER WEIGHT
TERMINAL BLOCK LAYOUT
NO SCALE

MEMBER E.C.A.D
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE	
	DRAWN BY: DEL	TITLE DETAIL OF 8x8x4 TERM. BOX MNTED ON COUNT. WEIGHT
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS
	DATE 2/3/86	DRAWING NO. E79



PLAN - NEMA 3R
NO SCALE

NOTE:
REFER TO DRAWING E82
FOR TERMINAL BLOCK LAYOUT.

MEMBER E. C. A. D.
Residential
Commercial
Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE 2 DOOR MOUNTING NEMA 3R	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E80
	DATE 2/4/86		

BUCHANNAN TYPE 2B112 TERMINAL BLOCK, 3 ROWS OF TERMINAL BLOCKS WITH 4, 2B112 TERMINAL BLOCKS IN EACH ROW

CB 6NW L1	3 Ø POWER TO WARNING GATE N.W. DISCONNECT SW (3-#10)
CB 6NW L2	
CB 6NW L3	
CB 6SW L1	3 Ø POWER TO WARNING GATE S.W. DISCONNECT SW (3-#10)
CB 6SW L2	
CB 6SW L3	
CB BNW L1	3 Ø POWER TO BARRIER GATE N.W.
CB BNW L2	
CB BNW L3	
CB BSW L1	3 Ø POWER TO BARRIER GATE S.W.
CB BSW L2	
CB BSW L3	
CB LNW L1	3 Ø POWER TO LOCK MOTOR DISCONNECT IN N.W. GALLERY
CB LNW L2	
CB LNW L3	
CB LSW L1	3 Ø POWER TO LOCK MOTOR DISCONNECT IN S.W. GALLERY
CB LSW L2	
CB LSW L3	
156	110 VOLT POWER TO NAVIGATION LIGHTS ON FENDER SYSTEM
N	
274	LIMIT SWITCH LS-HCN (HAND CRANK LIMIT SW.) LOCATED IN N.W. MACH. GALLERY
21	
279	LIMIT SWITCH LS-HCS (HAND CRANK LIMIT SW.) LOCATED IN SW. MACH. GALLERY
21	
274	LIMIT SWITCH RLS-LNW (ROTARY SPAN LOCK LIMIT) LOCATED IN S.W. MACH. GALLERY
276	
274	
273	
279	LIMIT SWITCH RLS-LSW (ROTARY SPAN LOCK LIMIT) LOCATED IN S.W. MACH. GALLERY
281	
279	
278	
274	LIMIT SWITCH LS-LNW (SPAN INTERLOCK LIMIT SW.) LOCATED IN N.W. MACHINE GALLERY
276	
274	
273	
263	
21	
264	
21	
279	LIMIT SWITCH LS-LSW (SPAN INTERLOCK LIMIT SW.) LOCATED IN N.W. MACHINE GALLERY
281	
279	
278	
261	
21	
262	
21	

104	TRAFFIC SIGNAL CIRCUITS TO TRAFFIC SIGNAL POLE #104 GREEN LENSE, #109 AMBER LENSE, 115 RED LENSE AND N, IS NUETRAL FOR ALL THREE NUMBERS (104, 109 AND 115)
109	
115	
N	
248	LIMIT SWITCH LS-BNW (BARRIER GATE LIMIT SW.) LOCATED AT N.W. BARRIER GATE
250	
26	
102	
235	
21	
252	
21	
249	
21	
202	
203	
162	
416	
162	
417	
241	LIMIT SWITCH LS-BSW (BARRIER GATE LIMIT SW.) LOCATED AT S.W. BARRIER GATE
21	
250	
21	
234	
235	
243	
249	
26	
102	
203	
204	
162	
418	
162	
419	
230	LIMIT SWITCH LS-6SW (WARNING GATE LIMIT SW.) LOCATED AT S.W. WARNING GATE
21	
232	
21	
207	
208	
26	
102	
162	
409	
162	
410	

225	LIMIT SWITCH LS-6NW (WARNING GATE LIMIT SW.) LOCATED AT N.W. WARNING GATE
21	
227	
21	
208	
21	
26	
102	
162	
407	
162	
408	
121	TRAFFIC GONGS
N	
141	BARRIER AND WARNING GATE WARNING LIGHTS
142	
N	
TEL	2-#16 FOR SERVICE TELEPHONE
TEL	
TEL SP	2-#16 FOR SPARE SERVICE TELEPHONE
TEL SP	
WLP CB1	WEST LIGHTING PANEL CIRCUIT 1 SPAN LOCK MOTOR HEATER AND SUB, TERMINAL CAB, HEATER (110 VOLT)
WLP CB1N	
WLP CB2	WEST LIGHTING PANEL CIRCUIT 2 GALLERY AND PLATFORM LIGHTS AND RECPT (110 VOLT)
WLP CB2N	
WLP CB3A	WEST LIGHTING PANEL - SPARE CIRCUIT (230 VOLT)
WLP CB3B	
WLP CB3N	
42	ROADWAY LIGHT
43	
16 L1	PANEL WLP (WEST LIGHTING PANEL) FEED
16 L2	
16N	
GRND	
SPARE TERMINAL TOTAL OF 14	
WLP CB2 A	SWITCHED SIDE OF SINGE POLE SWITCH, NEAR ENTRY HATCH AT ROADWAY

NOTES:

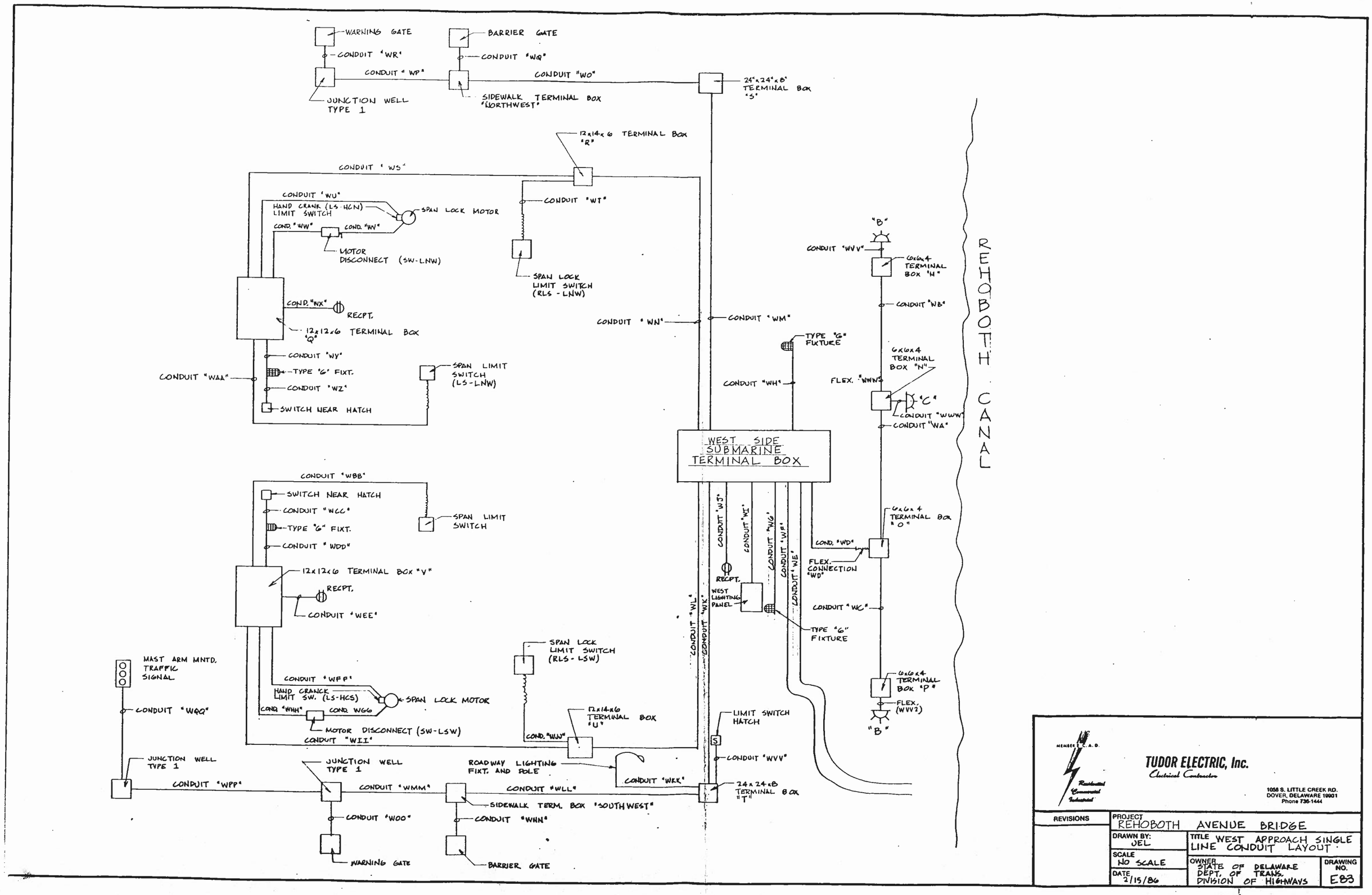
1. SEE HOFFMAN ENGINEERING CORP. DRAWINGS #CB70-C, AND CB71-C FOR TERMINAL BOX CONSTRUCTION DISREGARD TERMINAL BLOCK LAYOUT ON DRAWING CB70-C, THIS DRAWING SUPERCEDES DRAWING CB70-C TERMINAL BLOCK LOCATION.
2. TERMINALS - WLP CB1, WLP CB1N, WLP CB2, WLP CB2N, WLP CB3A, WLP CB3B, AND WLP CB 3N ARE NOT PRESENT IN THE EAST SIDE SUBMARINE TERMINAL CABINET.
3. JUMPER WIRES SHOULD BE INSTALLED TO INTERCONNECT TERMINAL BLOCK NO. 21, 26, 102, 162, 203, 208, 235, 249, 250, 273, 274 276, 279 AND 281 IN THE FIELD. JUMPERS, IF INSTALLED SHALL NOT BE CONNECT TO ANY OTHER SUBMARINE CABLE CONDUCTOR, UNLESS NOTED. SUCH AS ONLY ONE SUBMARINE CABLE SHALL BEAR THE TERMINAL NUMBER 21, AND NO OTHER CABLE SHALL HAVE THE SAME DESIGNATED NUMBER (21)

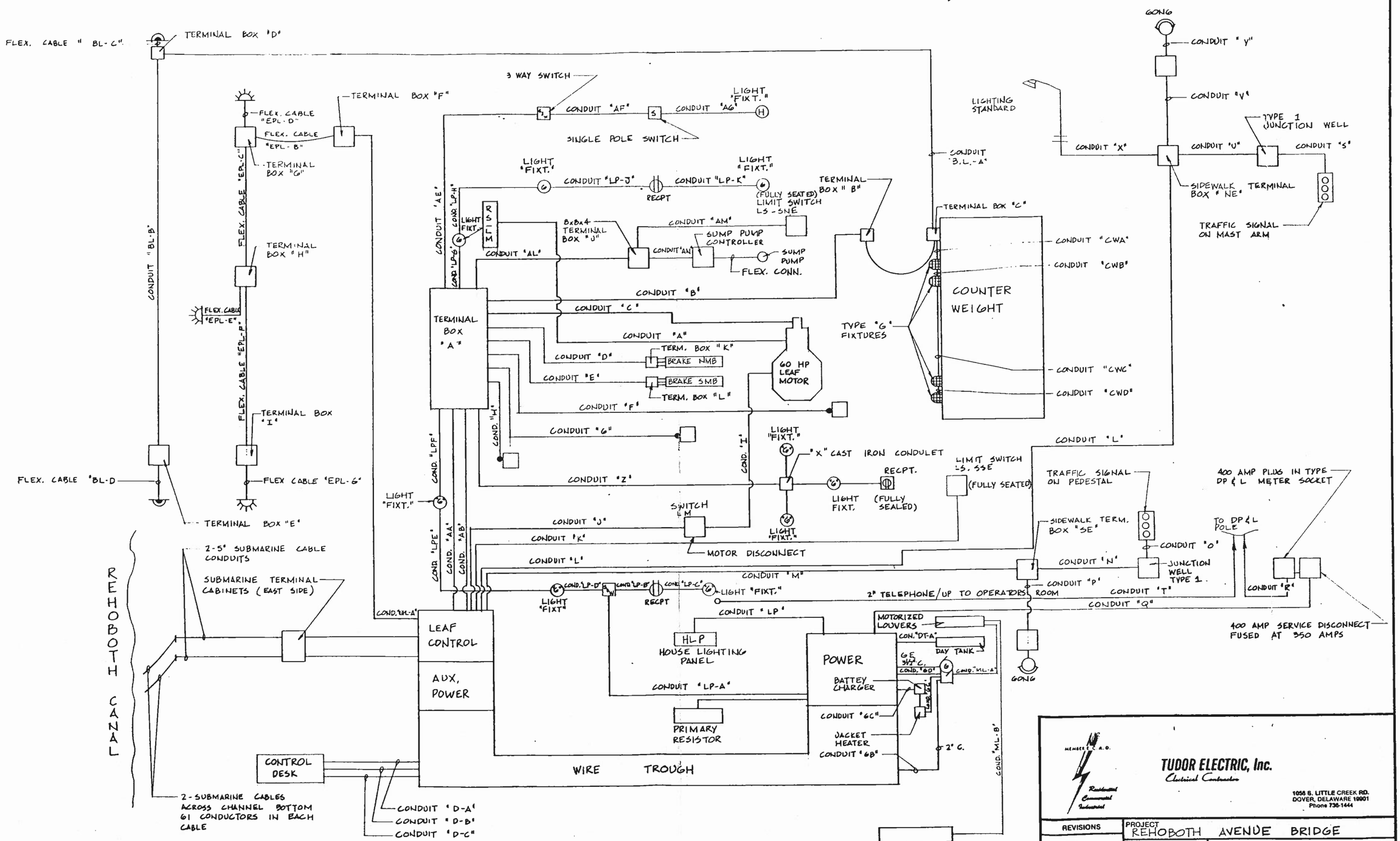
CONNECT #8 TO CABINET FRAME

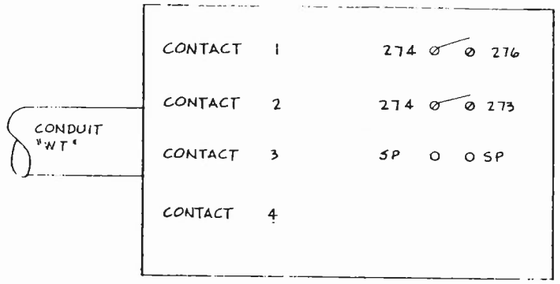
SUBMARINE TERMINAL CABINET
TERMINAL BLOCK LAYOUT
NO SCALE

MEMBER T.C.A.D.
Residential Commercial Industrial
TUDOR ELECTRIC, Inc.
Electrical Contractor
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

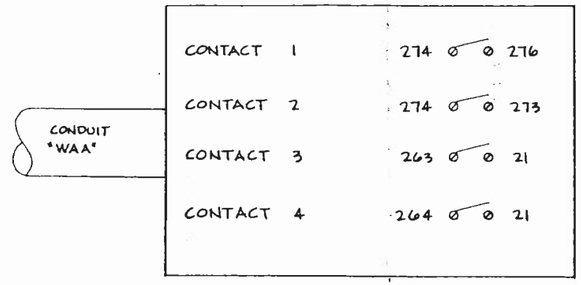
REVISIONS	
PROJECT	REHOBOTH AVENUE BRIDGE
DRAWN BY:	JEL
TITLE	SUBMARINE TERM. CAB. TERMINAL BLOCK LAYOUT
SCALE	NO SCALE
OWNER	STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS
DATE	2/9/86
DRAWING NO.	E82


WARNING GATE
BARRIER GATE
CONDUIT "WR"
CONDUIT "WQ"
CONDUIT "WP"
CONDUIT "WO"
JUNCTION WELL TYPE 1
SIDEWALK TERMINAL BOX "NORTHWEST"
24"x24"x8" TERMINAL BOX "S"
12x14x6 TERMINAL BOX "R"
CONDUIT "WS"
CONDUIT "WU"
HAND CRANK (LS-HCN) LIMIT SWITCH
SPAN LOCK MOTOR
COND. "WW"
COND. "WV"
MOTOR DISCONNECT (SW-LNW)
CONDUIT "WT"
SPAN LOCK LIMIT SWITCH (RLS-LNW)
COND. "WX"
RECPT.
12x12x6 TERMINAL BOX "Q"
CONDUIT "WN"
CONDUIT "WM"
CONDUIT "WY"
TYPE "G" FIXT.
CONDUIT "WAA"
CONDUIT "WZ"
SWITCH NEAR HATCH
SPAN LIMIT SWITCH (LS-LNW)
"B"
CONDUIT "WVV"
6x6x4 TERMINAL BOX "H"
CONDUIT "WB"
TYPE "G" FIXTURE
6x6x4 TERMINAL BOX "N"
CONDUIT "WH"
FLEX. "WWW"
"C"
CONDUIT "WWW"
CONDUIT "WA"
REHOBOTH CANAL
WEST SIDE SUBMARINE TERMINAL BOX
CONDUIT "WBB"
SWITCH NEAR HATCH
CONDUIT "WCC"
TYPE "G" FIXT.
CONDUIT "WDD"
SPAN LIMIT SWITCH
12x12x6 TERMINAL BOX "V"
RECPT.
CONDUIT "WEE"
CONDUIT "WJ"
CONDUIT "WI"
CONDUIT "WG"
CONDUIT "WF"
CONDUIT "WE"
CONDUIT "WL"
CONDUIT "WK"
6x6x4 TERMINAL BOX "O"
COND. "WD"
FLEX. CONNECTION "WD"
RECPT.
WEST LIGHTING PANEL
CONDUIT "WC"
TYPE "G" FIXTURE
MAST ARM MNTD. TRAFFIC SIGNAL
SPAN LOCK LIMIT SWITCH (RLS-LSW)
CONDUIT "WFF"
HAND CRANK LIMIT SW. (LS-HCS)
SPAN LOCK MOTOR
CONDUIT "WQQ"
COND. "WHH"
COND. WGG
MOTOR DISCONNECT (SW-LSW)
CONDUIT "WII"
12x14x6 TERMINAL BOX "U"
COND. "WJJ"
6x6x4 TERMINAL BOX "P"
FLEX. (WVV2)
"B"
LIMIT SWITCH HATCH
S
CONDUIT "WVV"
JUNCTION WELL TYPE 1
JUNCTION WELL TYPE 1
ROADWAY LIGHTING FIXT. AND POLE
CONDUIT "WKK"
CONDUIT "WPP"
CONDUIT "WMM"
CONDUIT "WLL"
24x24x8 TERMINAL BOX "T"
SIDEWALK TERM. BOX "SOUTHWEST"
CONDUIT "WOO"
CONDUIT "WNN"
WARNING GATE
BARRIER GATE
TUDOR ELECTRIC, Inc.
Electrical Contractors
MEMBER N.E.C.A.
Residential Commercial Industrial
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444
REVISIONS
PROJECT REHOBOTH AVENUE BRIDGE
DRAWN BY: JEL
TITLE WEST APPROACH SINGLE LINE CONDUIT LAYOUT
SCALE NO SCALE
DATE 2/15/86
OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS
DRAWING NO. E83

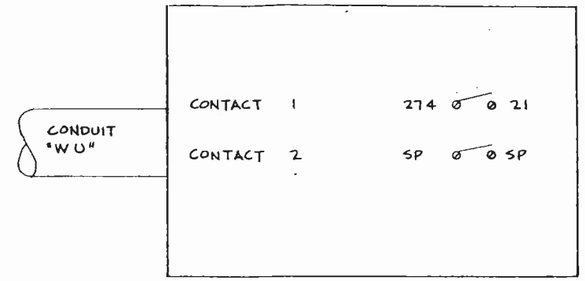

FLEX. CABLE " BL-C".
TERMINAL BOX "D"
CONDUIT "BL-B"
FLEX. CABLE "EPL-D"
FLEX. CABLE "EPL-B"
TERMINAL BOX "G"
TERMINAL BOX "F"
FLEX. CABLE "EPL-C"
TERMINAL BOX "H"
FLEX. CABLE "EPL-E"
FLEX. CABLE "EPL-F"
TERMINAL BOX "I"
FLEX. CABLE "BL-D
FLEX CABLE "EPL-G"
TERMINAL BOX "E"
3 WAY SWITCH
CONDUIT "AF"
CONDUIT "AG"
LIGHT "FIXT."
SINGLE POLE SWITCH
LIGHT "FIXT."
CONDUIT "LP-J"
CONDUIT "LP-K"
RECPT
(FULLY SEATED) LIMIT SWITCH LS-SNE
TERMINAL BOX " B"
CONDUIT "B.L.-A"
LIGHTING STANDARD
GONG
CONDUIT " Y"
CONDUIT "V"
TYPE 1 JUNCTION WELL
CONDUIT "X"
CONDUIT "U"
CONDUIT "S"
SIDEWALK BOX " NE" TERMINAL
TRAFFIC SIGNAL ON MAST ARM
TERMINAL BOX "C"
CONDUIT "CWA"
CONDUIT "CWB"
COUNTER WEIGHT
TYPE "G" FIXTURES
CONDUIT "CWC"
CONDUIT "CWD"
CONDUIT "L"
CONDUIT "AE"
COND. "LP-H"
COND. "LP-G"
LIGHT FIXT.
RSIM
BxBx4 TERMINAL BOX "J"
CONDUIT "AM"
SUMP PUMP CONTROLLER
CONDUIT "AN"
SUMP PUMP
FLEX. CONN.
CONDUIT "AL"
CONDUIT "B"
CONDUIT "C"
TERMINAL BOX "A"
CONDUIT "A"
TERM. BOX "K"
CONDUIT "D"
BRAKE NMB
CONDUIT "E"
BRAKE SMB
TERM. BOX "L"
60 HP LEAF MOTOR
CONDUIT "F"
CONDUIT "G"
COND. "H"
COND. "I"
LIGHT "FIXT."
"X" CAST IRON CONDULET
RECPT.
LIMIT SWITCH LS. SSE
(FULLY SEATED)
TRAFFIC SIGNAL ON PEDESTAL
400 AMP PLUG IN TYPE DP & L METER SOCKET
CONDUIT "Z"
LIGHT FIXT.
(FULLY SEALED)
COND. "LPF"
LIGHT "FIXT."
SWITCH LM
CONDUIT "J"
CONDUIT "K"
MOTOR DISCONNECT
SIDEWALK TERM. BOX "SE"
TO DP & L POLE
CONDUIT "O"
CONDUIT "L"
CONDUIT "N"
JUNCTION WELL TYPE 1
CONDUIT "M"
CONDUIT "P"
CONDUIT "T"
CONDUIT "R"
COND. "LPE"
COND. "AA"
COND. "AB"
COND. "LP-D"
COND. "LP-B"
COND. "LP-C"
LIGHT "FIXT"
RECPT
LIGHT "FIXT."
2" TELEPHONE/UP TO OPERATORS ROOM
CONDUIT "Q"
400 AMP SERVICE DISCONNECT FUSED AT 350 AMPS
COND. "BL-A"
CONDUIT "LP"
MOTORIZED LOUVERS
CON. "DT-A"
DAY TANK
GONG
HLP
HOUSE LIGHTING PANEL
POWER
GE 3½ C.
COND. "GD"
COND. "ML-A"
LEAF CONTROL
AUX. POWER
CONDUIT "LP-A"
BATTEY CHARGER
PRIMARY RESISTOR
CONDUIT "GC"
JACKET HEATER
CONDUIT "GB"
2" G.
COND. "ML-B"
WIRE TROUGH
CONTROL DESK
REHOBOTH CANAL
2-5" SUBMARINE CABLE CONDUITS
SUBMARINE TERMINAL CABINETS (EAST SIDE)
2-SUBMARINE CABLES ACROSS CHANNEL BOTTOM 61 CONDUCTORS IN EACH CABLE
CONDUIT "D-A"
CONDUIT "D-B"
CONDUIT "D-C"
MOTORIZED LOUVERS
MEMBER E.C.A.O.
Residential Commercial Industrial
TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444
REVISIONS
PROJECT REHOBOTH AVENUE BRIDGE
DRAWN BY: JEL
TITLE EAST SIDE OF CHANNEL CONDUIT SCHEMATIC
SCALE NO SCALE
OWNER STATE OF DELAWARE DEPT OF TRANS. DIVISION OF HIGHWAYS
DRAWING NO. E84
DATE 2/2/86



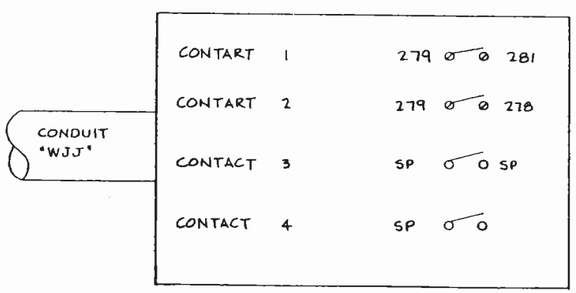
ROTARY SPAN LOCK
LIMIT SWITCH RLS-LNW
N.W. MACHINE GALLERY



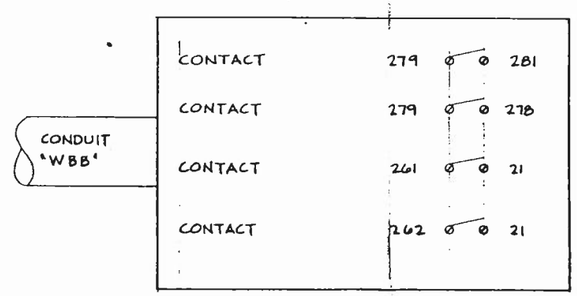
SPAN LOCK INTERLOCK
LIMIT SWITCH LS-LNW
LOCATED AT N.W. MACHINE GALLERY



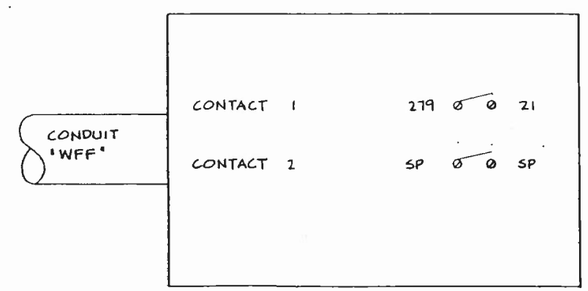
HAND CRANK
LIMIT SWITCH LS-HCN
LOCATED AT TAIL END OF SPAN LOCK MOTOR IN N.E. MACHINE GALLERY



ROTARY SPAN LOCK
LIMIT SWITCH RLS-LSW
S.W. MACHINE GALLERY



SPAN LOCK INTERLOCK
LIMIT SWITCH LS-LSW
LOCATED AT S.W. MACHINE GALLERY



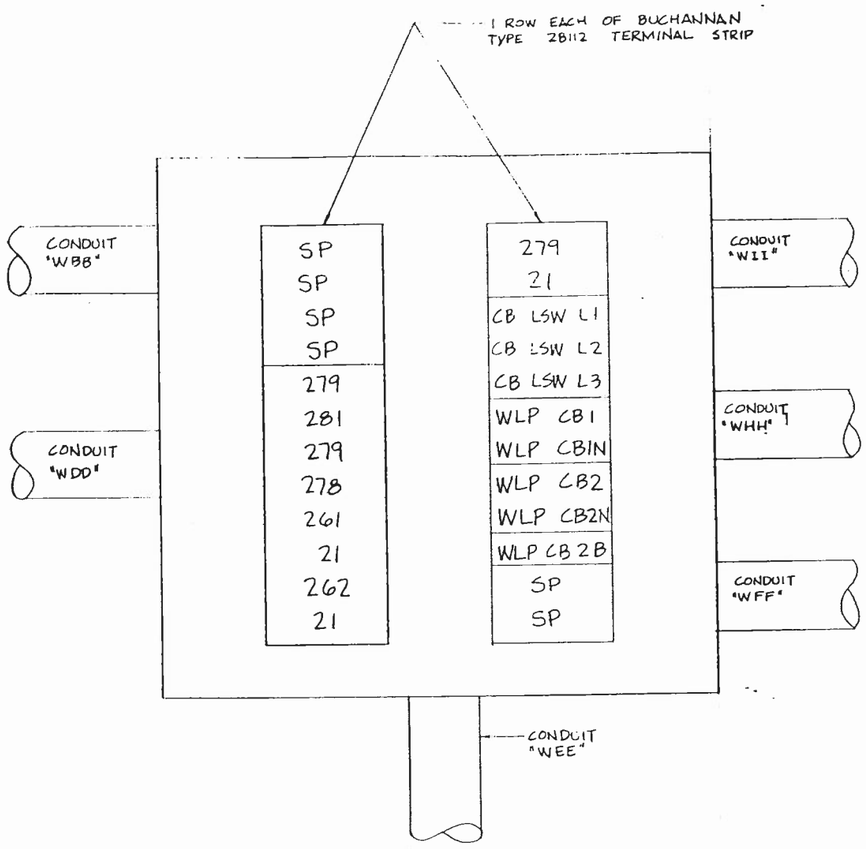
HAND CRANK
LIMIT SWITCH LS-HCS
LOCATED AT TAIL END OF SPAN LOCK MOTOR IN S.W. MACHINE GALLERY

NOTES:

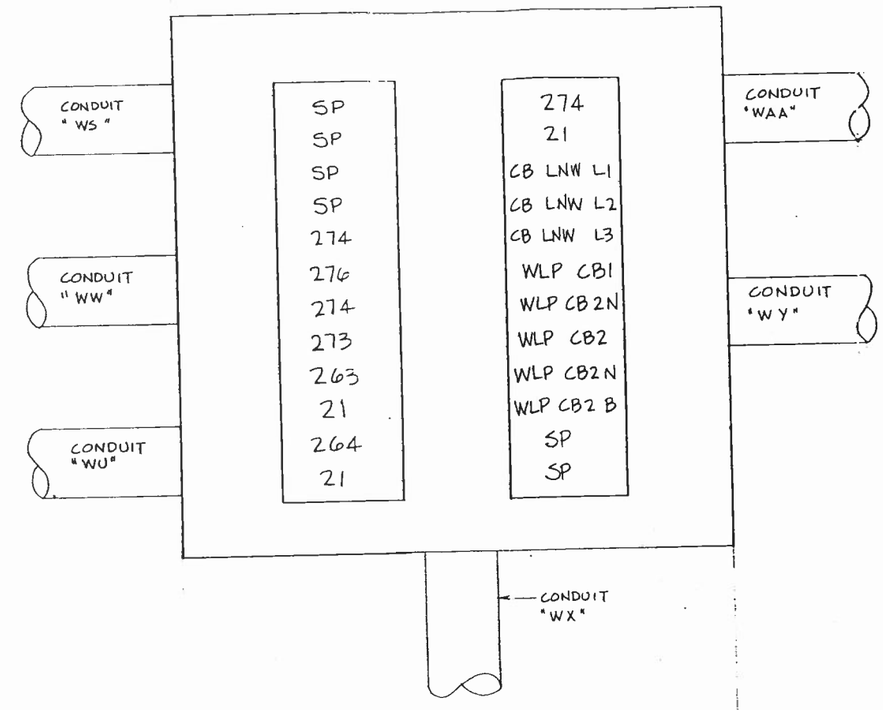
1. SP - DENOTES SPARE CONTACT.
2. FOR LIMIT SWITCH DEVELOPMENT SEE SHEET E .

MEMBER E.C.A.G.
Residential Commercial Industrial
TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE
DRAWN BY: JEL	TITLE
SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRANS DIVISION OF HIGHWAYS
DATE 2/23/86	DRAWING NO. E85



TERMINAL BOX "V"
TERMINAL BLOCK LAYOUT
LOCATED IN S.W. MACHINE GALLERY



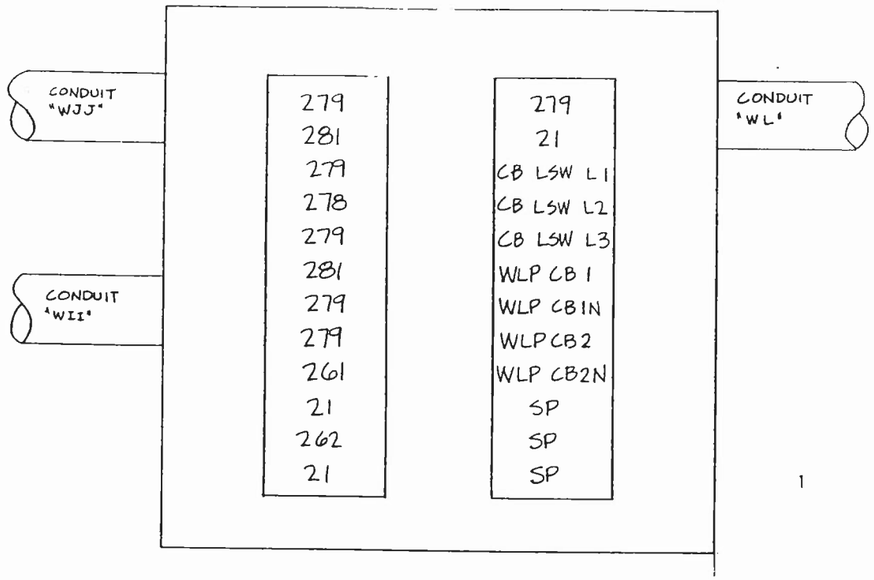
TERMINAL BOX "Q"
TERMINAL BLOCK LAYOUT
LOCATED IN N.W. MACHINE GALLERY

MEMBER E.C.A.D.
Residential Commercial Industrial

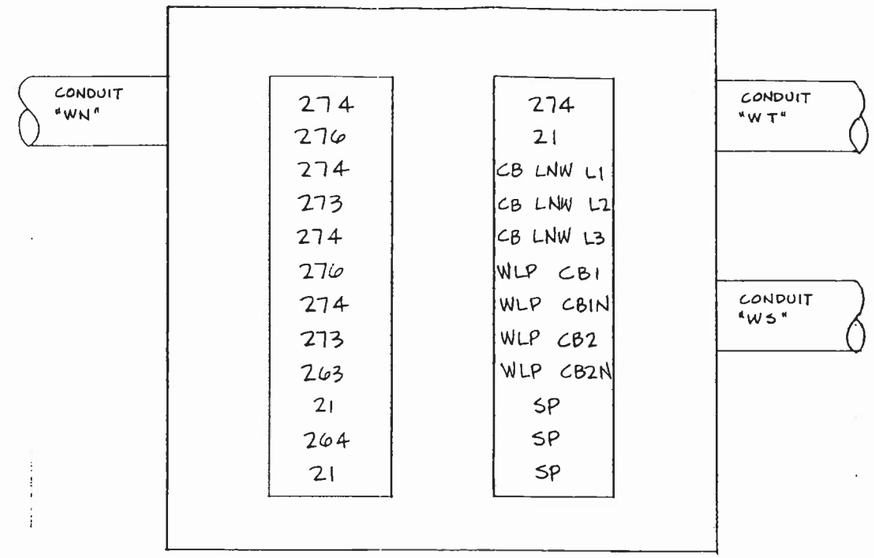
TUDOR ELECTRIC, Inc.
Electrical Contractors

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E87
	DATE 1/24/86		



TERMINAL BOX "U"
TERMINAL BLOCK LAYOUT
LOCATED IN S.W. MACHINE GALLERY



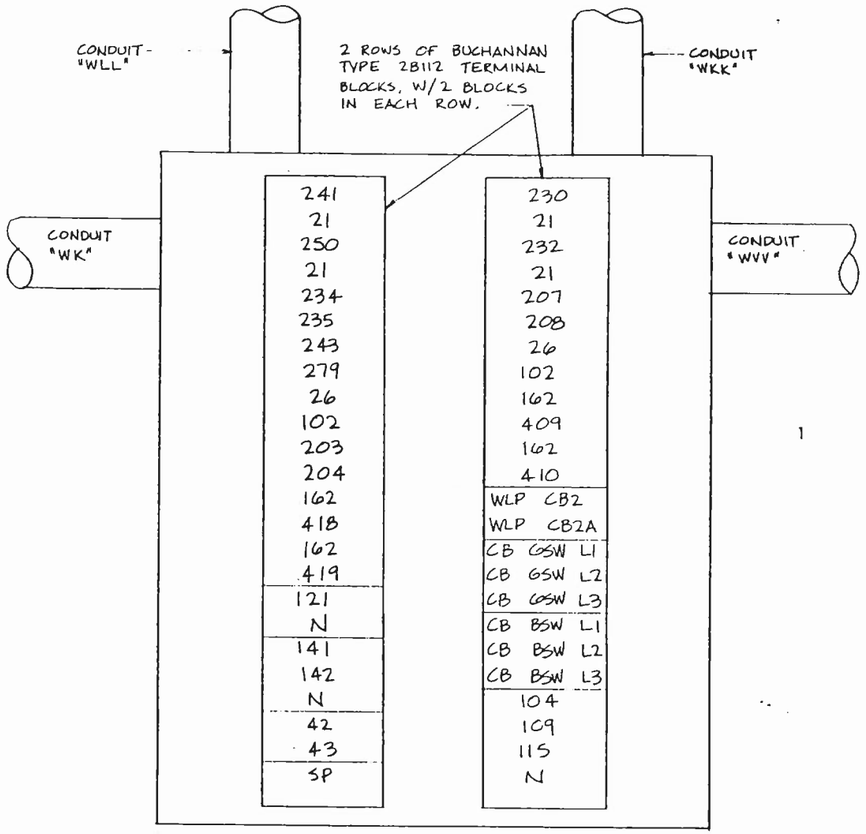
TERMINAL BOX "R"
TERMINAL BLOCK LAYOUT
LOCATED IN N.W. MACHINE GALLERY

MEMBER N.E.C.A.
Residential
Commercial
Industrial

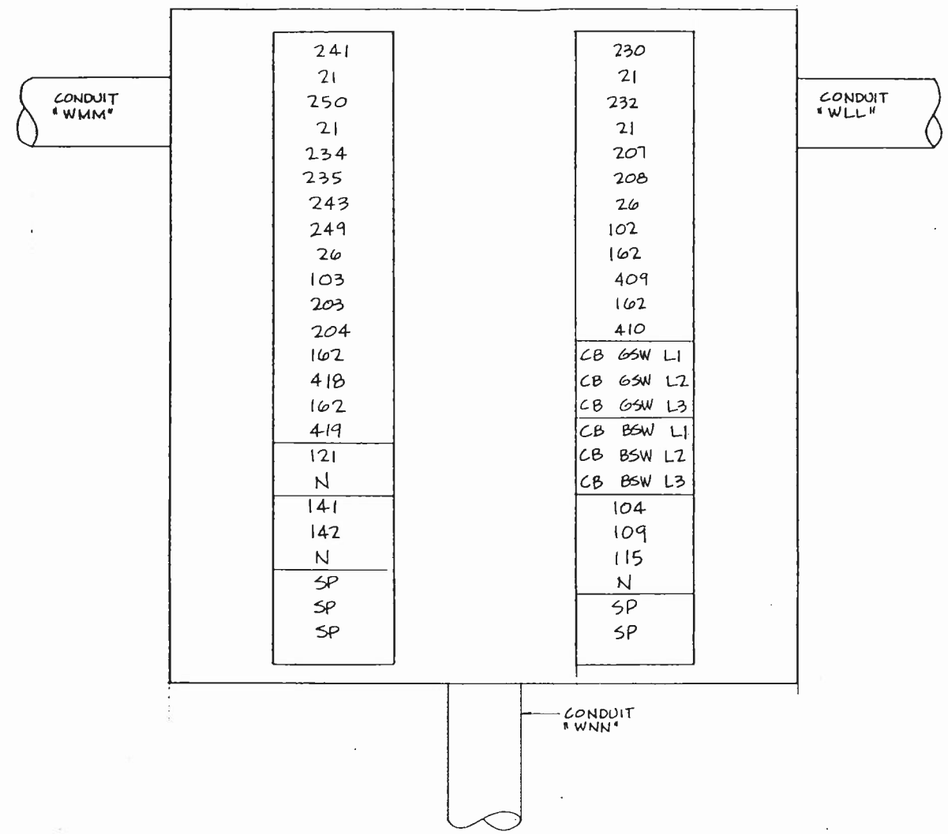
TUDOR ELECTRIC, Inc.
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE	
	SCALE: NO SCALE	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E88
	DATE: 2/24/86		



TERMINAL BOX "T"
TERMINAL BOARD LAYOUT
LOCATED AT S.W. END OF PLATFORM ON RIER PIER



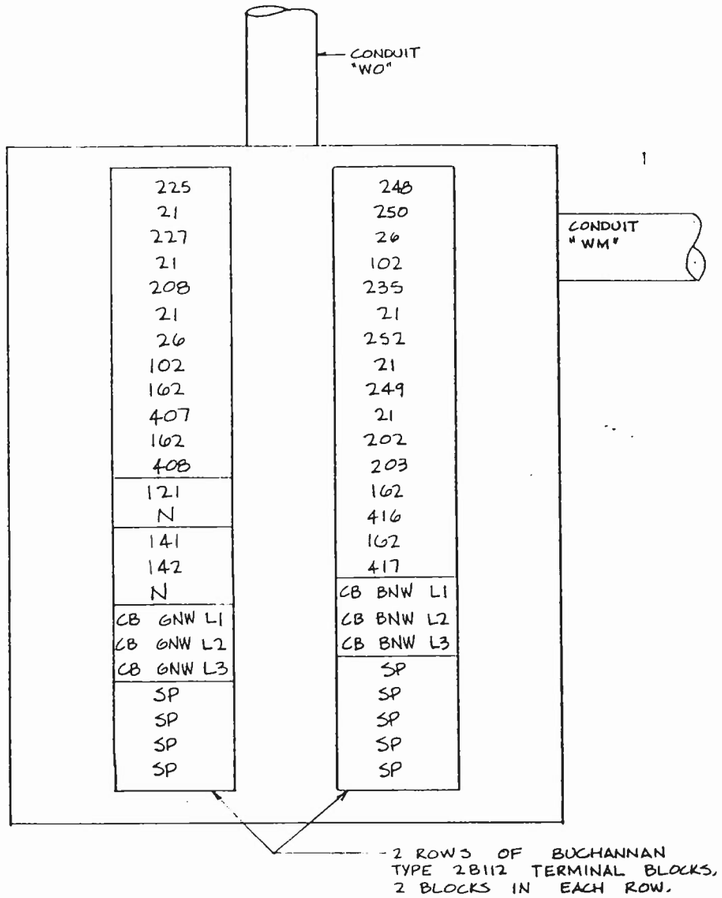
SIDEWALK TERMINAL BOX S.W.
TERMINAL BLOCK LAYOUT
LOCATED IN SIDEWALK NEAR S.W. BARRIER GATE

MEMBER E.C.A.D.
Residential Commercial Industrial

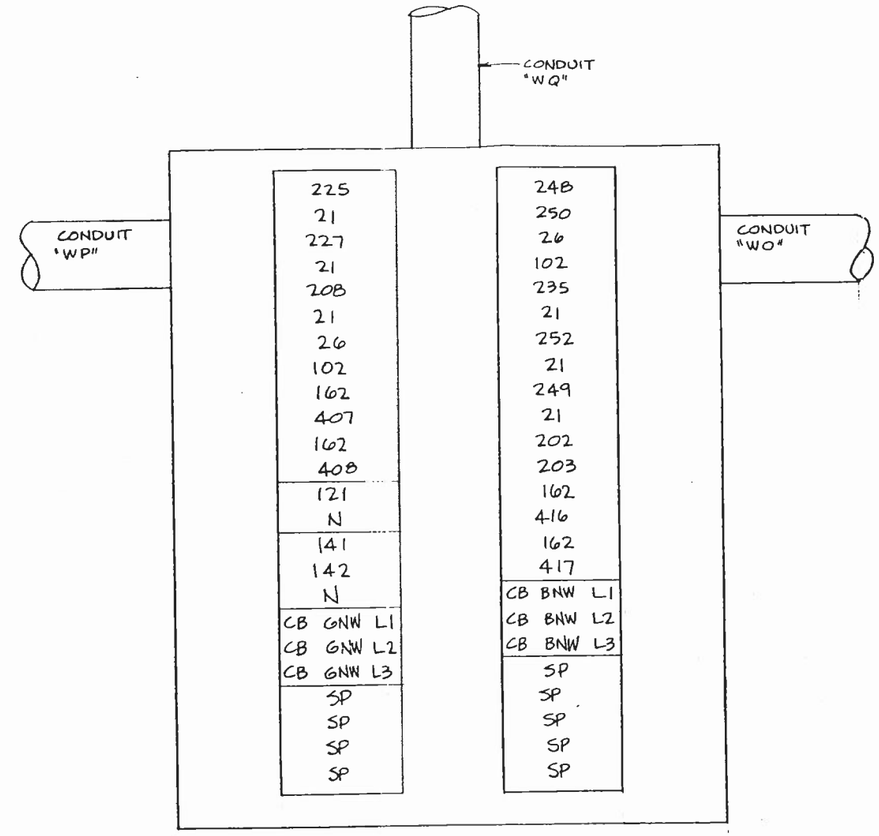
TUDOR ELECTRIC, Inc.
Electrical Contractor

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE	
	SCALE: NO SCALE	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E89
	DATE: 2/25/86		



TERMINAL BOX "S"
TERMINAL BLOCK LAYOUT
LOCATED ON N. END OF REST PIER PLATFORM



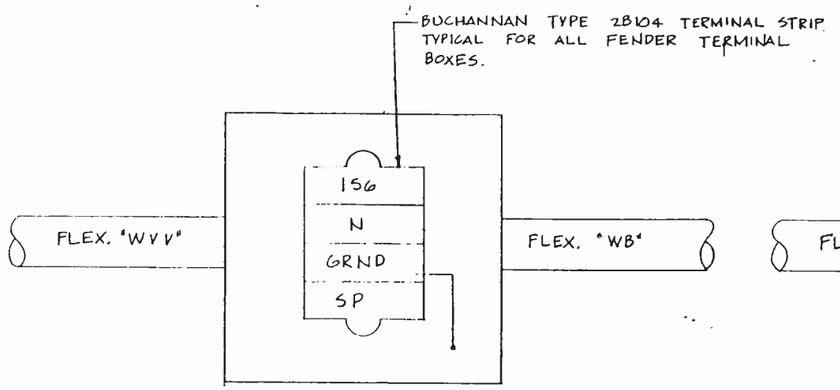
SIDEWALK TERMINAL BOX "N.W"
TERMINAL BLOCK LAYOUT
LOCATED NEAR N.W. BARRIER GATE

MEMBER E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

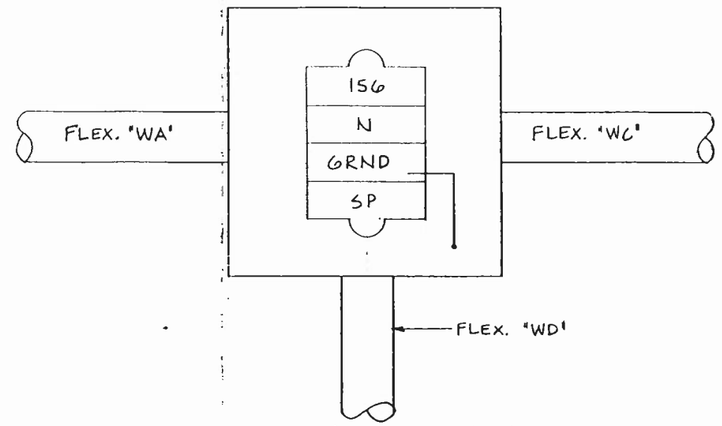
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: DEL	TITLE	
	SCALE NO SCALE	OWNER	DRAWING NO. E90
	DATE 2/25/86		



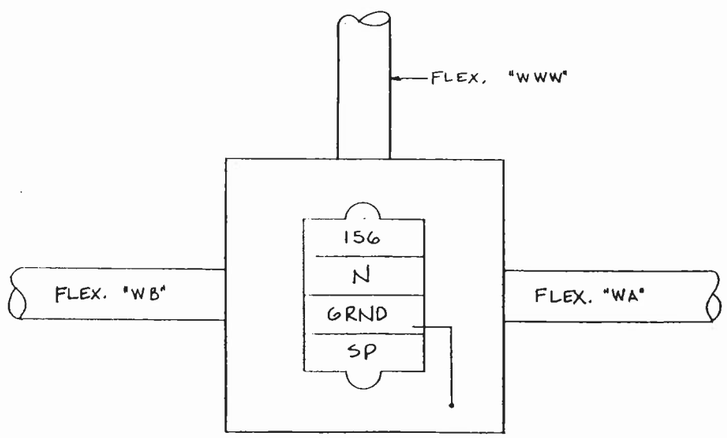
TERMINAL BOX "M"

LOCATED ON WEST SIDE FENDER SYSTEM - NORTH SIDE



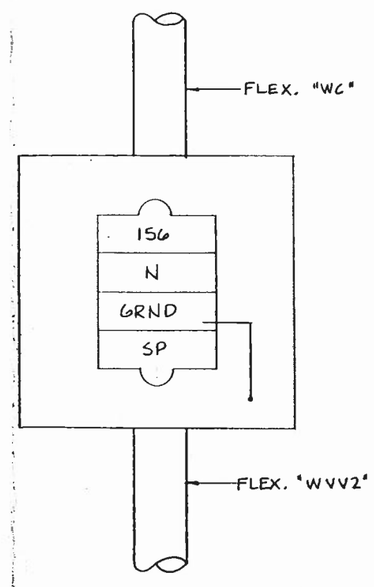
TERMINAL BOX "O"

LOCATED ON FENDER SYSTEM - NEAR MIDDLE



TERMINAL BOX "N"

LOCATED ON WEST SIDE FENDER SYSTEM - MIDDLE



TERMINAL BOX "P"

LOCATED ON SOUTH END OF WEST SIDE FENDER SYSTEM

NOTES:

1. FOR FENDER NAVIGATIONAL LIGHT TERMINAL BOXES (ALL 6x6x4) WHICH CONTAINS TERMINAL BOXES. M, N, O AND P.

2. SP - DENOTES SPARE TERMINAL.

   GRND - DENOTES GROUND TERMINAL, GROUND WIRE SHALL BOND GROUND TERMINAL AND METAL TERMINAL BOX, USE #10 SOLID.

   FLEX - DENOTES #10 -3 S-O CORD (3 CONDUCTORS OF #10).

MEMBER E.C.A.D.

Residential Commercial Industrial

TUDOR ELECTRIC, Inc.

Electrical Contractors

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E91
	DATE 2/27/86		

CONTACT	WIRE NUMBER	MAX OPEN 45	FULLY OPEN 42	BRAKE SET 40	NEARLY OPEN 39	SLOW DOWN 37	SLOW DOWN 6	NEARLY CLOSED 4	BRAKE SET 3	SEATING ANGLE .5	FULLY SEATED 0
1	303-320										
2	322-324										
3	332-326										
4	330-21										
5	337-21										
6	306-21										
7	28-155										
8	162-427										
9	162-428										
10	——										
11	——										
12	——										

SPAN LIMIT SWITCH
(LS)

CONTACT	RLS-LNW	RLS-LSW	LOCK PULLED		LOCK DRIVEN
1	276-276	279-281			
2	274-273	279-278			
3	SP	SP			
4	SP	SP			

ROTARY SPAN LOCK LIMIT SWITCH RLS-LNW, RLS-LSW

CONTACT	LS-LNW	LS-LSW	LOCK PULLED		LOCK DRIVEN
1	274-276	279-281			
2	274-273	279-278			
3	263-21	264-21			
4	264-21	262-21			

SPAN LOCK INTERLOCK LIMIT SWITCH LS-LNW, LS-LSW

CONTACT	LS-BNW	LS-BSW	90°	80°	60°	30°	0°
1	248-250	241-21					
2	——	250-21					
2	26-102	——					
3	235-21	234-235					
4	252-21	243-249					
5	249-21	——					
5	——	26-102					
6	202-203	203-204					
7	162-416	162-418					
8	162-417	162-419					

BARRIER GATE LIMIT SWITCHES LS-BNW, LS-BSW

CONTACT	LS-HCN	LS-HCS	CRANK ENGAGED	CRANK OFF
1	274-21	279-21		
2	——	——		

HAND CRANK LIMIT SWITCHES LS-HCN, LS-HCS

CONTACT	NMB	SMB	ENGAGED	RELEASED
1	310-311	310-311		
2				
3	327-332	332-333		
4	162-425	162-426		

HAND RELEASE

NORMAL

BRAKE LIMIT SWITCHES- NMB, SMB

CONTACT	M.O.L.S.	MANUAL	NORMAL
1	311-312		
2	30-402		

MANUAL OPERATION LIMIT SWITCH (M.O.LS.)

CONTACT	LS-GNE	LS-GNW	LS-GSE	LS-GSW	UP 90	80	DOWN 0
1	215-21	225-21	220-21	230-21			
2	217-21	227-21	222-21	232-21			
3	206-207	208-21	205-206	207-208			
4	26-102	26-102	26-102	26-102			
5			—				
6	SPARE	SPARE	SPARE	SPARE			
7	162-403	162-407	162-405	162-409			
8	162-404	162-408	162-406	162-410			

WARNING GATE LIMIT SWITCHES LS-GNE, LS-GNW, LS-GSE, LS-GSW

CONTACT	LS-SNE	LS-SSE	UP	SEATED
1	268-269	267-268		
2	162-423	162-424		

FULLY SEATED LIMIT SWITCHES LS-SNE, LS-SSE

LEGEND

CONTACT WIRE NO. CONTACT CLOSED/OPEN

MEMBER E.C.A.D.

Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractor

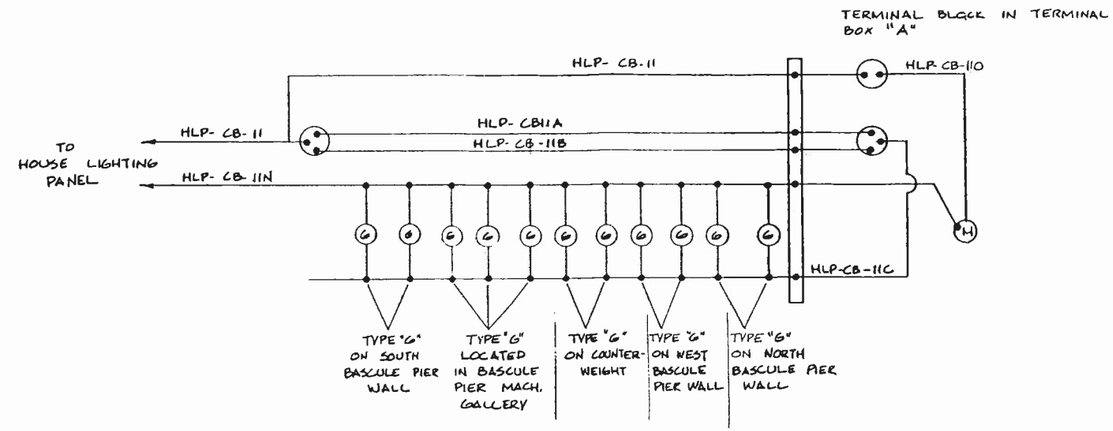
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE
DRAWN BY: JEL	TITLE: LIMIT SWITCH DEVEL.
SCALE: NO SCALE	OWNER: STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS
DATE: 3/1/86	DRAWING NO. E92

CB-SP-L1	303	162	
CB-SP-L2	320	423	
CB-SP-L3	322	268	
HLP-CB-11N	324	269	
HLP-CB-11A	322	131	
HLP-CB-11B	326	132	
HLP-CB-11C	330	133	
HLP-CB-13	21	134	
HLP-CB-13N	337	SEL-N	
CB-MNB-L1	21		
CB-MNB-L2	306		
CB-MNB-L3	21		
CB-MSB-L1	28		
CB-MSB-L2	155		
CB-MSB-L3	162		
157	427		
158	162		
N	427		
50	162		
50N	428		
52	30		
53	402		
58	311		
303	312		
307	310		
	311		
	327		
	332		
	162		
	425		
	310		
	311		
	332		
	333		
	162		
	426		

← 3 ROWS OF BUSHANNAN CAT NO. 2B112 TERMINAL BLOCKS, WITH 3 BUSHANNAN CAT NO. 2B112 IN EACH ROW

TERMINAL BOX "A"
TERMINAL BLOCK LAYOUT
LOCATED IN CENTER OF MACHINE GALLERY

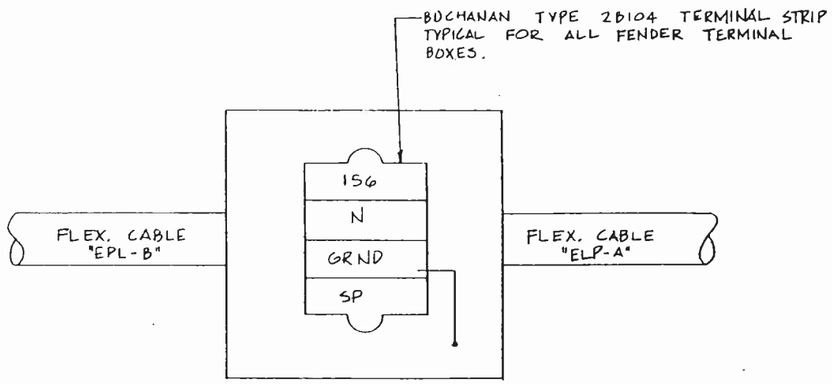


WIRING DIAGRAM OF TYPE "G" LIGHTS IN BASCULE PIER

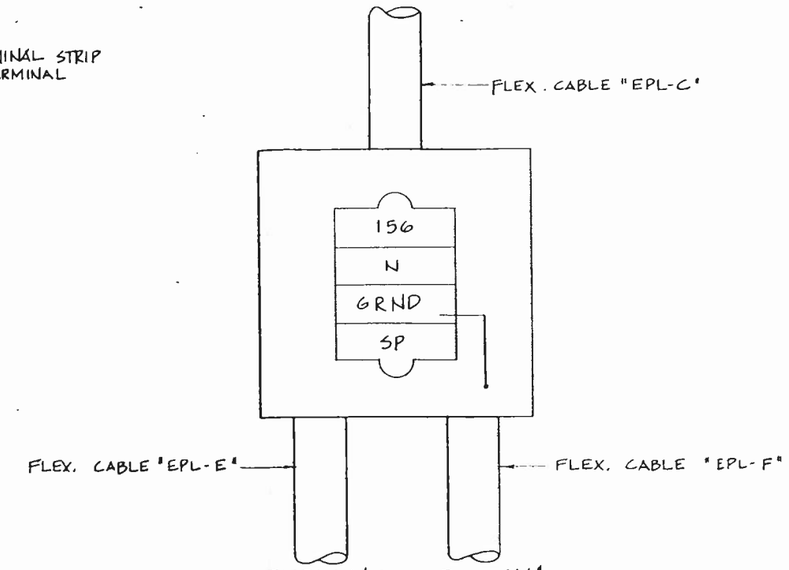
MEMBER E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1066 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

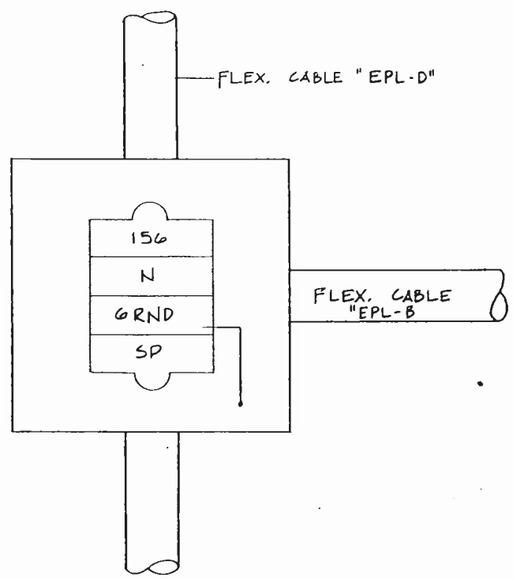
REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E93
	DATE 3/2/86		



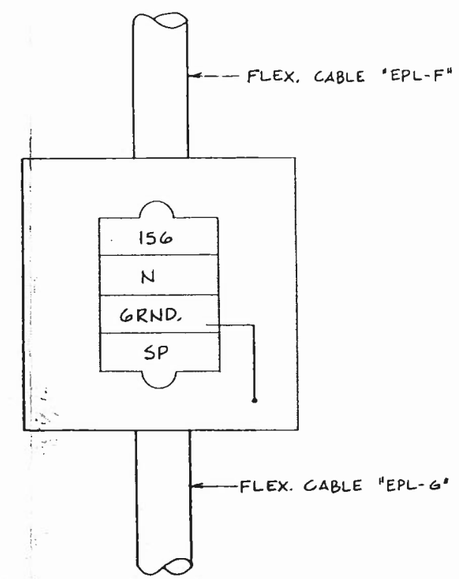
TERMINAL BOX "F"



TERMINAL BOX "H"



TERMINAL BOX "G"



TERMINAL BOX "I"

NOTE :

SP - DENOTES SPARE TERMINAL.

GRND- DENOTES GROUND TERMINAL, GROUNDWIRE SHALL BOND GROUND TERMINAL AND METAL TERMINAL BOX, USE #10 SOLID.

FLEX. CABLE - DENOTES #10-3 S-O CORD (3 CONDUCTORS OF #10).

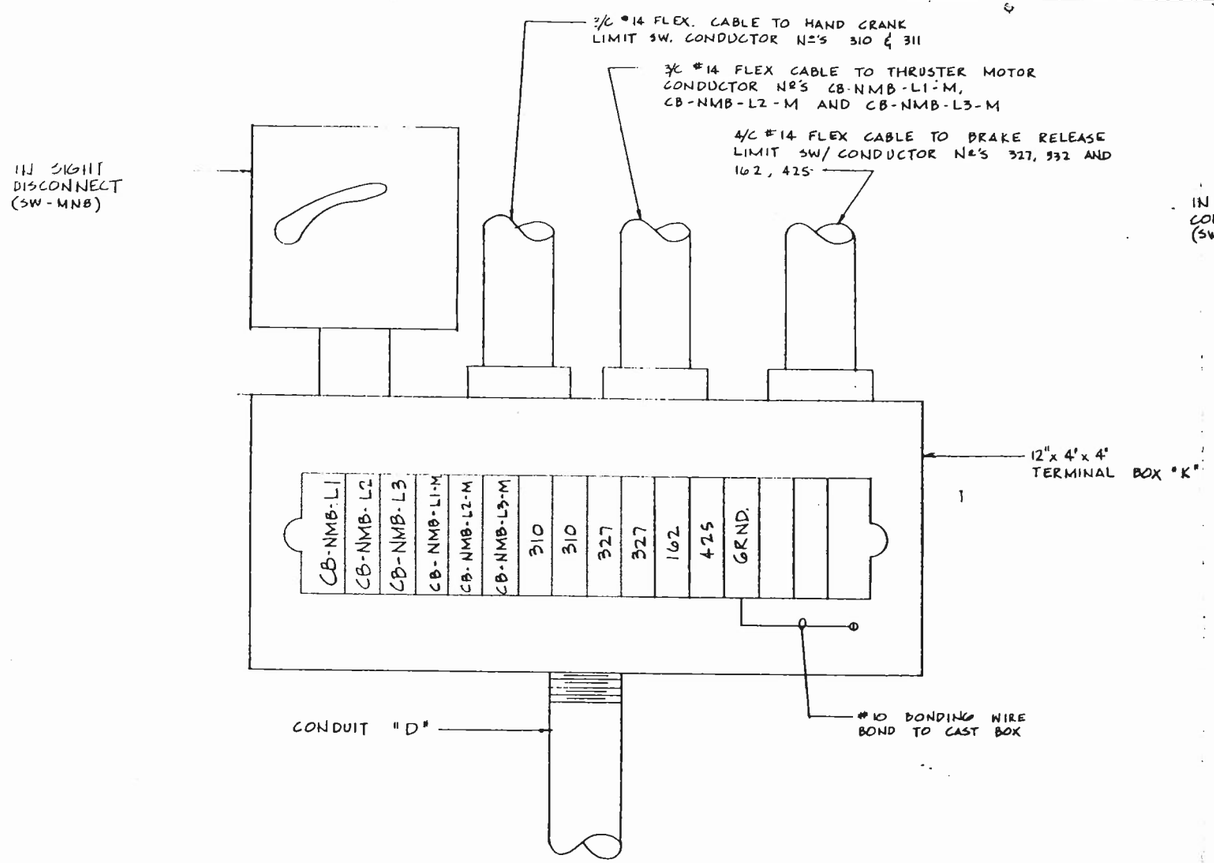
MEMBER C.A.D.

Residential Commercial Industrial

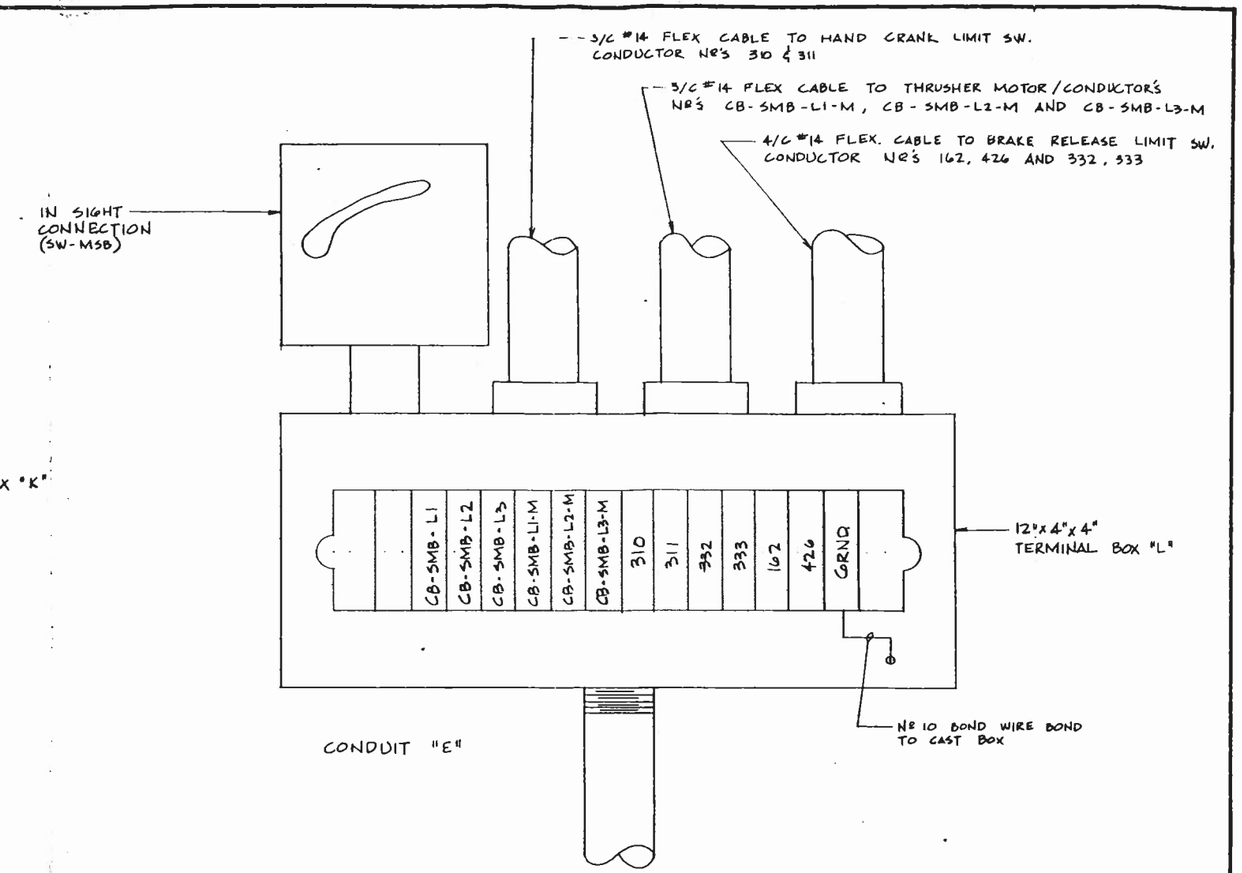
TUDOR ELECTRIC, Inc.
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

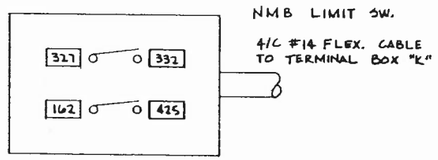
REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRANS. DIVISION OF HIGHWAYS	DRAWING NO. E94
	DATE 3/5/86		



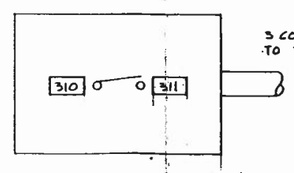
TERMINAL BOX "K"



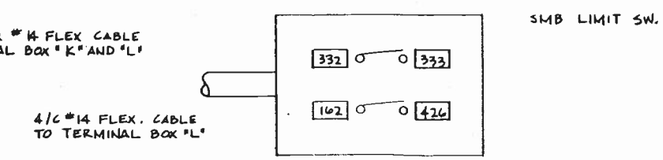
TERMINAL BOX "L"



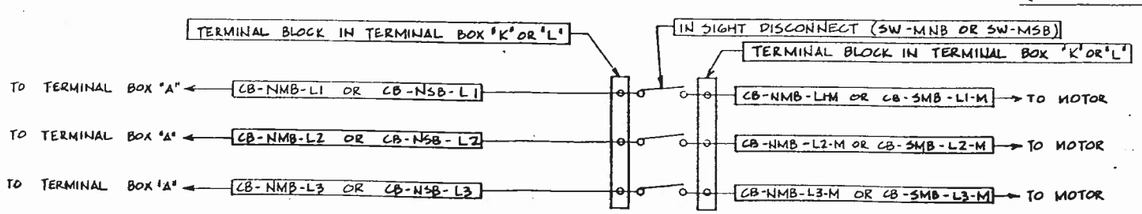
BRAKE RELEASE LIMIT SWITCH
CONDUCTOR CONNECTION



HAND CRANK LIMIT SWITCH
CONDUCTOR CONNECTION
(TYPICAL FOR BRAKE MNB AND MSB)



BRAKE RELEASE LIMIT SWITCH
CONDUCTOR CONNECTION



CONDUCTOR WIRING FOR THRUSTER BRAKE MOTOR

NOTE:
SEE DRAWING E36 (TYPICAL BRAKE DETAIL) FOR MOUNTING LOCATION.

MEMBER E.C.A.
Residential Commercial Industrial

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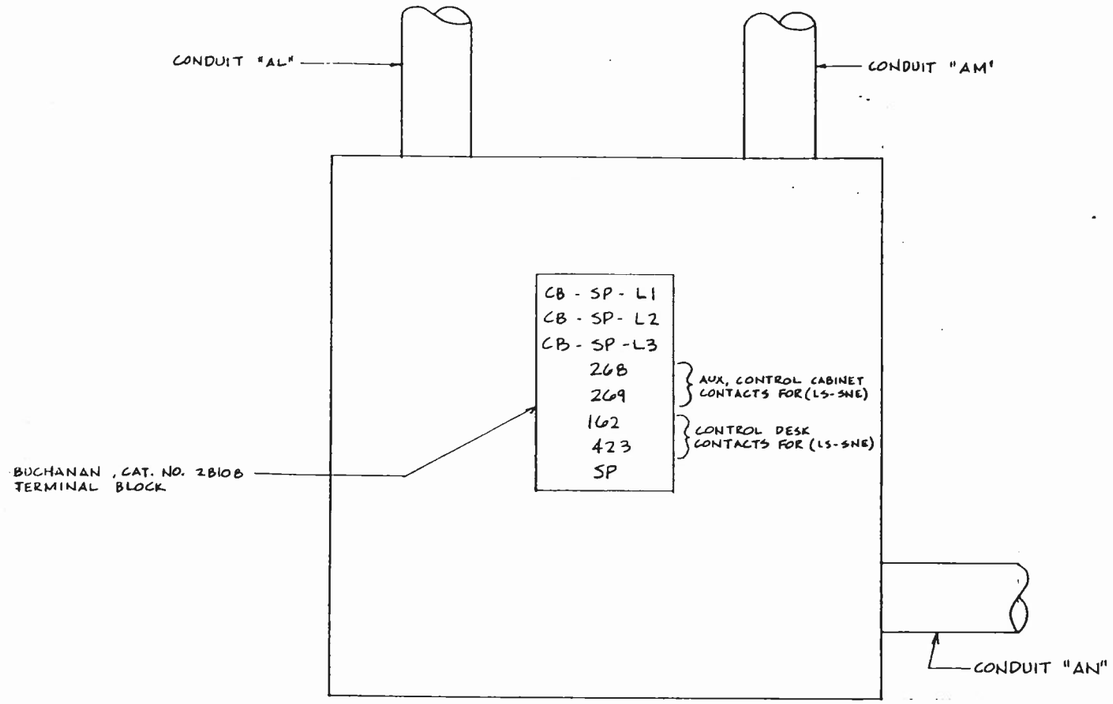
Electrical Contractors

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT: REHOBOTH AVENUE BRIDGE	
	DRAWN BY: JEL	TITLE: TERMINAL BOXES AND MISCELLANEOUS DETAILS
	SCALE: NO SCALE	OWNER: STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS
	DATE: 3/6/86	DRAWING NO. E95



8x8x4 TERMINAL BOX "J"

TERMINAL BLOCK LAYOUT

TERMINAL BOX "J" IS LOCATED NEAR SUMP PUMP CONTROL PANEL, NORTH SIDE OF BASCULE PIER

NOTES:

1. SEE DRAWING E7 FOR LOCATION.
2. LS-SNE IS FULLY SEATED LIMIT SW. NORTH EAST SIDE OF BASCULE PIER.

MEMBER E. C. A. D.

Residential Commercial Industrial

TUDOR ELECTRIC, Inc.

Electrical Contractors

1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 735-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E96
	DATE 3/10/86		

POWER DISTRIBUTION

ITEM	QTY	DESCRIPTION	FUNCTION	LOC.
CB-R	1	CIRCUIT BREAKER, 3P, 600V, 400A. FRAME *	MAIN BREAKER- REGULAR	PP
MS-P	1	SELECTOR SWITCH, 4-POSITION, 8-STAGE, 600V.	POWER SELECTOR	CD
ATS	1	AUTOMATIC TRANSFER SWITCH, 3 PDT, 400A. 240V,. ELECT. OPERATED, MECHANICALLY HELD, WITH FULL RELAY PROTECTION	STANDBY POWER TRANSFER	PP
CB-S	1	CIRCUIT BREAKER, 3P, 600V, 400A, FRAME *	MAIN BREAKER - STANDBY	
CB-L	1	CIRCUIT BREAKER, 2P., 70A., 600V., 150A, FRAME	LIGHTING FEEDER	PP
FU-VM	3	N.E.C. CARTRIDGE FUSE, 3A., 600V.	VOLTMETER PROTECTION	PP
TS-VM	1	SELECTOR SWITCH, 10A., 600V.	VOLTMETER TRANSFER	CD
VM	1	A-C VOLTMETER, 0-250 V. SCALE 60 HZ.	READ SUPPLY VOLTAGE	CD
CT-WMS	2	CURRENT TRANSFORMER	WATTMETER SAPPLY	PP
WM	1	WATTMETER, 0-115 KW SCALE 60 HZ.	READ DRIVE-POWER	CD
FU-OPR	3	N.E.C. CARTRIDGE FUSE, 3A., 600V.	RELAY PROTECTION	PP
OPR	1	PHASE FAILURE AND REVERSAL RELAY	REVERSE PHASE PROTECTION	PP
CB-BC	1	CIRCUIT BREAKER, 2P., 40A., 600V., 100A. FRAME	BRIDGE CONTROL POWER	PP
T-BC	1	TRANSFORMER, DRY-TYPE, 2 KVA., 240/120V.	CONTROL SUPPLY	PP
MS-C	1	SELECTOR SWITCH, 2-POSITION, 5-STAGE, 600V.	CONTROL SELECTOR	CD
BC-UVR	1	MAGNETIC AUXILIARY RELAY. 10A. 600V.	BRIDGE CONTROL UV	PP
BCR	1	MAGNETIC AUXILIARY RELAY, 10A., 600V.	ENERGIZE BRIDGE CONTROLS	PP
CB-H	1	CIRCUIT BREAKER, 3P., 100A., 600V., 100A. FRAME	HEATING FEEDER	PP
RCS-H	1	HEATING PANEL BOARD CONTROL 3P., 240V., 150A.	HEATING CONTROL	SW
RCS	5	ZONE HEATING CONTROL 2P., 240V., 50A	ZONE HEATING CONTROL	-
		* -TRIP SETTING SEE COORDINATION NOTE, SHEET NO. 110		

SPAN MOTORS & BRAKES

CB-LM	1	CIRCUIT BREAKER, 3P., 600V., 400A, FRAME, 216A. TRIP	LEAF DRIVE MOTOR	LCP
OC-LM	1	MAGNETIC OVERCURRENT RELAY, 3-ELEMENT, AUTO-RESET, INSTANTANEOUS TRIP @ 220% MOTOR F.L.	MOTOR TORQUE LIMIT	LCP
MR-LM	1	MAGNETIC CONTACTOR, 3P., 325A., 600V., WITH AUXILIARY CONTACTS, MECHANICALLY INTERLOCKED	LEAF MOTOR CONTACTOR	LCP
CT-LM	1	CURRENT TRANSFORMER	FOR LEAF MOTOR AMMETER	LCP
CTP-LM	1	THYRITE PROTECTOR	PROTECT CURRENT TRANSFORMER	LCP
AM-LM	1	A-C AMMETER, 60 HZ., 0-300A, SCALE	READ MOTOR CURRENT	CD
SW-LM	1	ENCLOSED DISCONNECT SWITCH, 3PST, 200A., 600V.	"IN SIGHT" DISCONNECT	MG
RS-M	1	RESISTOR BANK, CONT. RATING (25% OF OY PER LEG)	LEAF MOTOR SECONDARY (LEAF MOTOR)	MG
CB-MNB, CB-MSB	2	CIRCUIT BREAKER, 3P., 15A., 600V., 100A. FRAME	LEAF MOTOR BRAKES	LCP
M-MNB, M-MSB	2	MAGNETIC CONTACTOR, 3P., 15A., 600V. WITH 3-ELEMENT THERMAL O.L.'S MANUAL RESET	RELEASE MOTOR BRAKES	LCP
SW-MNB, SW-MSB	2	ENCLOSED STARTING SWITCH, TUMBLER TYPE, WATERTIGHT, 3PST, 20A., 600V,	"IN SIGHT" DISCONNECT (BRAKES)	MG
CB-LEG	1	CIRCUIT BREAKER, 3P., 15A., 100 AMP FRAME	THYRISTOR REGULATOR	LCP
RS-PM	1	PRIMARY RESISTOR CONTROL	LEAF MOTOR CURRENT LIMIT	-
TCU	1	THYRISTOR AND CONTROL UNIT	LEAF MOTOR SPEED CONTROL	-
TG	1	TACH GENERATOR (0-90V. DC)	LEAF MOTOR SPEED CONTROL	-
LOS	1	LEAF MOTOR LOW OVER SPEED SWITCH	LOW OVER SPEED CONTROL	-
HOS	1	LEAF MOTOR HIGH OVER SPEED SWITCH	HIGH OVER SPEED CONTROL	-

LIGHTING

ITEM	QTY.	DESCRIPTION	FUNCTION	LOC.
FU-VML	2	N.E.C. CARTRIDGE FUSE, 3A., 250V.	LIGHTING VOLTMETER	LP
TS-VML	1	SELECTOR SWITCH, 10A., 250V.	VOLTMETER TRANSFER	CD
VM-L	1	A-C VOLTMETER, 0-150V. SCALE 60 HZ.	READ LIGHTING VOLTAGE	CD
CB-TS	1	CIRCUIT BREAKER, 1P., 20A., 120V.	TRAFFIC SIGNALS	LP
SW-TS	1	TUMBLER SWITCH, DPST, 20A., 250V.	OPERATES TRAFFIC SIGNALS	CD
TR-TS	1	TIMING RELAY, MOTOR-DRIVEN, 120V., 60 HZ., SET FOR 4 SECOND TIME DELAY	TRAFFIC SIGNAL TIMER	LP
BP-TS	1	SEALED TUMBLER SWITCH, DPST, 20A., 250V.	TIMER BYPASS	CD
RSR	1	MAGNETIC AUXILIARY RELAY, 3P., 10A., 600V.	"STOP" TRAFFIC SIGNALS	LP
ASR	1	MAGNETIC AUXILIARY RELAY, 3P., 10A., 600V.	YELLOW TRAFFIC LIGHTS	LP
CB-GL	1	CIRCUIT BREAKER, 1P., 20A., 120V.	GATE WARNING LIGHTS	LP
FLR	1	FLASHER, 2-CIRCUIT, 30A., 125V.	FLASH GATE LIGHTS	LP
CB-AH	1	CIRCUIT BREAKER, 2P., 40A., 600V., 100A. FRAME	AIR HORNS	LP
HPB	1	PUSHBUTTON STATION, 1-BUTTON, HEAVY DUTY	OPERATES AIR HORNS	CD
MAH	1	MAGNETIC CONTACTOR, 2P., 40A., 240V.	OPERATES AIR HORNS	LP
CB-NL	1	CIRCUIT BREAKER, 1P., 20A., 120V.	NAVIGATION LIGHTS AND SIGNALS	LP
BP-NL	1	SEALED TUMBLER SWITCH, DPST, 20A., 250V.	PHOTOCELL PASSBY (NAVIGATION LIGHTS)	CD
FOR	1	MAGNETIC AUXILIARY RELAY 10A., 600V.	LEAF FULLY OPEN INDICATION	LP
CB-SEL	1	CIRCUIT BREAKER, 1P., 20A., 120V.	POSITION INDICATORS	LP
T-SEL	1	TRANSFORMER, DRY-TYPE, 10 115/6V.	POSITION INDIC. DIAL LAMPS	LP
SELT	1	SYNCHRO-TRANSMITTER, 115V., 60 HZ., WATERTIGHT	POSITION TRANSMITTER	MG
SELR	1	SYNCHRO-RECEIVER, HIGH ACCURACY, 115V., 60 HZ.	POSITION RECEIVER	CD
CB-IL	1	CIRCUIT BREAKER, 1P., 20A., 120V.	INDICATING LIGHTS	LP
SW-IL	1	TUMBLER SWITCH, DPST, 20A., 250V.	OPERATES INDICATING LIGHTS	CD
BOLR	1	MAGNETIC RELAY, 1P. (N.C.), 15A., 250V.	INDICATION FOR BRAKE O.L.	LP
CB-HLP	1	CIRCUIT BREAKER, 2P., 50A., 600V.	HOUSE LIGHTING PANEL	LP
CB-RL	1	CIRCUIT BREAKER, 2P., 20A., 250V.	ROADWAY LIGHTS	LP
CB-WLP	1	CIRCUIT BREAKER, 2P., 30A., 600V.	WEST LIGHTING PANEL	LP
				LP
				LP
BP-RL	1	SEALED TUMBLER SWITCH, DPST, 20A., 250V.	PHOTOCELL BYPASS (ROADWAY LIGHTS)	CD
SW-RL	1	TUMBLER SWITCH DPST, 20A., 250V.	OPERATES OPERATOR ROOM LIGHTS	CD
SW-DL	1	DIMMER: SUITABLE FOR HALOGEN LAMP	ADJUST LIGHT OVER DESK	CD
CB-SP	1	CIRCUIT BREAKER, 2P., 20A., 250V.	SUMP PUMP CONTROL	-
CB-WH	1	CIRCUIT BREAKER, 2P., 30A., 250V.	WATER HEATER	-
CB-EG	1	CIRCUIT BREAKER, 2P., 10A., 250V.	GENERATOR BATTERY CHARGER & JACKET HTR.	-
SW-WH	1	ENCLOSED STARTING SWITCH, TUMBLER TYPE, 3PST, 30A, 250V	WATER HEATER DISCONNECT	

SPAN AUXILIARIES

SW-LNW, SW-LSW	2	ENCLOSED STARTING SWITCH, TUMBLER TYPE WATERTIGHT, 3PST, 20A., 600V., WITH AUX CONTACTS	"IN SIGHT" DISCONNECT (LOCK MOTOR)	LP
UVR-LC	1	MAGNETIC RELAY, 10A., 600V.	LOCK CONTROL UV	AP
CB-LC	1	CIRCUIT BREAKER 1P., 20A., 120V.	LOCK CONTROL	AP
M-LNW, M-LSW	2	REVERSING CONTACTOR, 3P., 15A., 120V WITH THERMAL O.L.'S MECHANICALLY AND ELECTRICALLY INTERLOCKED	LOCK CONTROL REVERSING	AP
LSW-P, LNW-P	4	MAGNETIC RELAY, 10A., 600V.	LOCKS PULLED	AP
LNW-R, LSW-R			LOCKS DRIVEN	AP
BP-LC	1	SEALED TUMBLER SWITCH, DPST, 20A., 250V.	LOCK CONTROL BY-PASS	CD
RLS-LNW, RLS-LSW	2	ROTARY LIMIT SWITCH, CAM OPERATED, 4 CIRCUIT REVERSING, WATERTIGHT	LOCK CONTROL	LP
LS-LNW, LS-LSW	2	LIMIT SWITCH LEVER OPERATED, 5 CIRCUIT, WATERTIGHT	LOCK TRAVEL	LP
LS-SSE, LS-SNE	2	LIMIT SWITCH PLUNGER OPERATED, SPRING RETURN, WATERTIGHT, 2 CIRCUIT	LEAF SEATED	MG
MS-LC	1	SELECTOR SWITCH, 2 POSITION, 4 STAGE, 600V.	OPERATE LOCKS	CD

SPAN AUXILIARIES

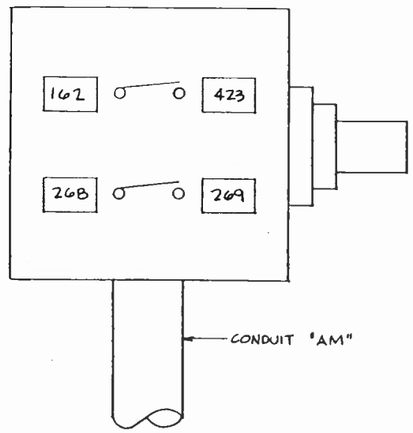
ITEM	QTY.	DESCRIPTION	FUNCTION	LOC.
CB-GNW, CB-GNE	4	CIRCUIT BREAKER, 3P., 15A., 600V., 100A. FRAME	GATE MOTORS	AP
CB-GSW, CB-GSE				
SW-GNW, SW-GNE	4	ENCLOSED STARTING SWITCH, TUMBLER-TYPE, WATERTIGHT, 3PST, 30A., 600V.	"IN SIGHT" DISCONNECT (WARNING GATES)	GS
SW-GSW SW-GSE				
CB-WGC	1	CIRCUIT BREAKER, 1P., 20A, 120V.	GATE CONTROL	AP
WGC	1	MAGNETIC AUXILIARY RELAY, 10A., 600V,	GATE CONTROL	AP
TR-CL	1	TIME DELAY, MOTOR DRIVEN	CLEARANCE TIMING CONTROL	AP
PB-GNW, PB-GNE	1	PUSHBUTTON STATION, 2-BUTTON.	OPERATES GATES	CD
PB-GSW, PB-GSE	1	HEAVY DUTY		
PB-GGO	1	PUSHBUTTON STATION, 2-UNIT, HEAVY DUTY	GROUP RAISING	CD
BP-WG		SEALED TUMBLER SWITCH, 3PST, 20A., 250V.	GATE CONTROL BYPASS	CD
WGGR	1	MAGNETIC AUXILIARY RELAY	GROUP RAISE CONTROL	AP
M-GNW, M-GNE, M-GSW, M-GSE	4	REVERSING CONTACTOR, 3P., 15A., 120V., WITH THERMAL O.L.'S MECHANICALLY AND ELECTRICALLY INTERLOCKED	GATE MOTOR REVERSING	AP
LS-GNW, LS-GNE, LS-GSW, LS-GNE	4	LIMIT SWITCH, CAM OPERATED, 6-CIRCUIT, REVERSING (PART OF GATE MECHANISM)	GATE TRAVEL AND CONTROL	GS
WGD	1	MAGNETIC AUXILIARY RELAY, 10A., 600V.	GATES DOWN	AP
CB-BNW, CB-BSW	2	CIRCUIT BREAKER, 3P., 15A., 600V., 100A. FRAME	BARRIER MOTORS	AP
SW-BNW, SW-BSW	2	ENCLOSED STARTING SWITCH, TUMBLER-TYPE, WATERTIGHT, 3PST, 30 AMP, 600V.	"IN SIGHT" DISCONNECT (BARRIER GATE)	BS
CB-BGC	1	CIRCUIT BREAKER, 1P., 20A., 120V.	BARRIER CONTROL	AP
M-BSW, M-BNW	2	REVERSING CONTACTOR, 3P., 15A., 120V., WITH BARRIER MOTOR REVERSING THERMAL O.L.'S MECHANICALLY AND ELECTRICALLY INTERLOCKED	BARRIER MOTOR REVERSING	AP
BGD	1	MAGNETIC AUXILIARY RELAY, 10A., 600V.	BARRIERS DOWN	AP
PB-BSW, PB-BNW	2	PUSHBUTTON UNIT, HEAVY DUTY, 2 STATION	OPERATE BARRIER	CD
PB-GBR	1	PUSHBUTTON UNIT, HEAVY DUTY, 2 STATION	GROUP BARRIERS RAISE	CD
LS-BNW, LS-BSW	2	LIMIT SWITCH, CAM OPERATED, 8 CIRCUIT REVERSING (PART OF BARRIER MECHANISM)	BARRIER TRAVEL & CONTROL	BS
BP-BG	1	SEALED TUMBLER SWITCH, 3PST, 20A., 250V.	BARRIER CONTROL BYPASS	CD
CB-LNW, CB-LSW	2	CIRCUIT BREAKER, 3P., 15A., 600V., 100A., FRAME	LOCK MOTORS	AP

SPAN CONTROL

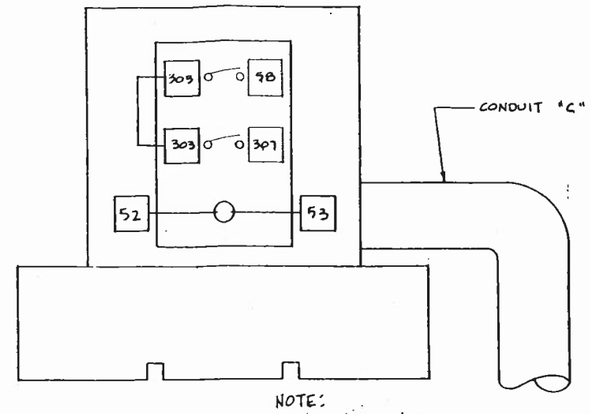
CB-CL	1	CIRCUIT BREAKER, 1P., 20A., 120V,	LEAF CONTROL	LCP
UVR	1	MAGNETIC CONTACTOR, 10A., 600V.,	LEAF CONTROL UV	LCP
MOLS	1	LIMIT SWITCH, LEVER OPERATED, SPRING-RETURN, 2-CIRCUIT, SNAP-ACTION, 600V.,	MANUAL OPERATION	MG
HR-MSB, HR-MNB	2	LIMIT SWITCH, LEVER OPERATED, SPRING RETURN, 2-CIRCUIT, 600V., WATERTIGHT	BRAKE HAND RELEASE INTLK.	MG
MS-L	1	MASTER SWITCH, 15-STAGE, 6-POINT FORWARD AND REVERSE	OPERATE BASCULE LEAF	CD
LS-L	1	LIMIT SWITCH, ROTARY, CAM OPERATED, 12-CIRCUIT, REVERSING, WATERTIGHT	BASCULE LEAF TRAVEL	MG
RUN	1	MAGNETIC AUXILIARY RELAY, 10A., 600V.	LEAF MOVEMENT	LCP
LBPR	1	MAGNETIC AUXILIARY RELAY, 10A., 600V,	LEAF LIMIT SWITCH BYPASS	LCP
SPB	1	PUSHBUTTON STATION, HEAVY-DUTY, 1-BUTTON	LEAF SEATING	CD
SR	1	MAGNETIC AUXILIARY RELAY, 10A., 600V,	LEAF SEATING	LCP
STR	1	MAGNETIC AUXILIARY RELAY, 10A., 600V.	REDUCE TORQUE	LCP
LR	1	MAGNETIC AUXILIARY RELAY, 10A., 600V,	LOWER LEAF	LCP
RR	1	MAGNETIC AUXILIARY RELAY, 10A., 600V.	RAISE LEAF	LCP
2A, 3A, 4A, 5A	4	MAGNETIC AUXILIARY RELAY, 10A., 600V.	SPEED SELECTION	LCP
OSR	1	MAGNETIC AUXILIARY RELAY, 10A., 600V,	LOW SPEED OVERSPEED	LCP
TR-LM	1	TIMING RELAY MOTOR DRIVEN	LEAF MOTOR POWER OFF	LCP

MEMBER E.C.A.D.
Residential Commercial Industrial
TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JEL	TITLE SCHEDULE OF ELECTRICAL APPARATUS	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E97
	DATE 3/14/86		

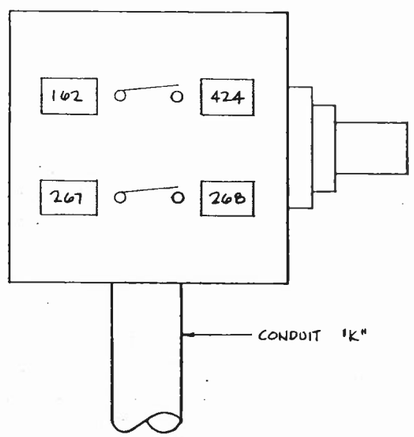


LIMIT SWITCH "LS-SNE"
TERMINAL AND WIREPAIR DETAIL
FULLY SEATED LOCATED NORTH BASCULE PIER WALKWAY

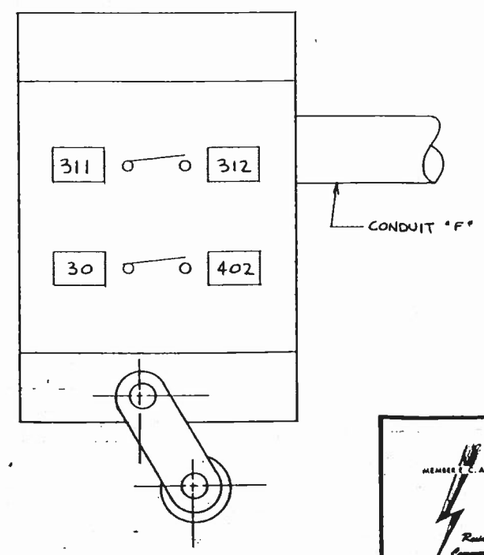


NOTE:
NO.S 52 & 53 SHALL BE RUN IN SHIELDED CABLE BETWEEN TACHOMETER AND DRIVE REGULATER CAGE IN DRIVE CABINET. SEE LINK CONTROL DRWG. NO. 3-3777-S.

TERMINAL AND WIREPAIR DETAIL FOR
TACHOMETER AND OVER SPEED.
LOCATED AT TAIL END OF 60HP DRIVER MOTOR.



LIMIT SWITCH 'LS-SSE'
TERMINAL AND WIREPAIR DETAIL
FULLY SEATED LIMIT SWITCH LOCATED SOUTH BASCULE PIER WALKWAY

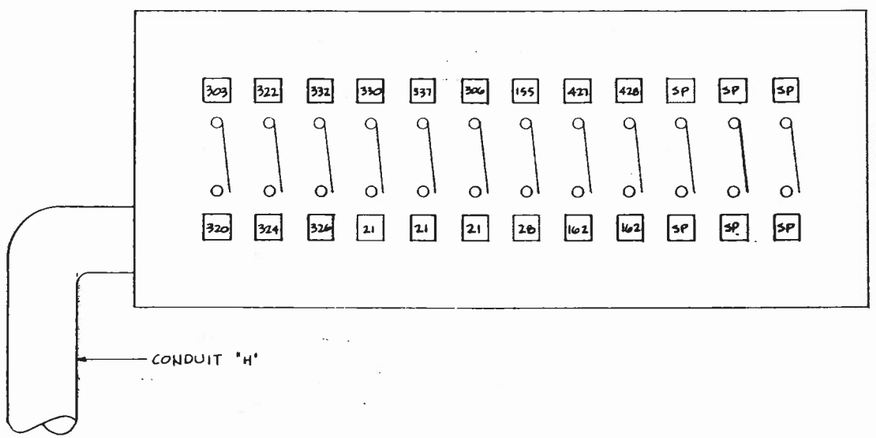


TERMINAL AND WIREPAIRS FOR
LIMIT SWITCH "MOLS"
LOCATED NEAR THE FRONT OF 60HP DRIVE MOTOR
MANUAL OPERATION LIMIT SWITCH

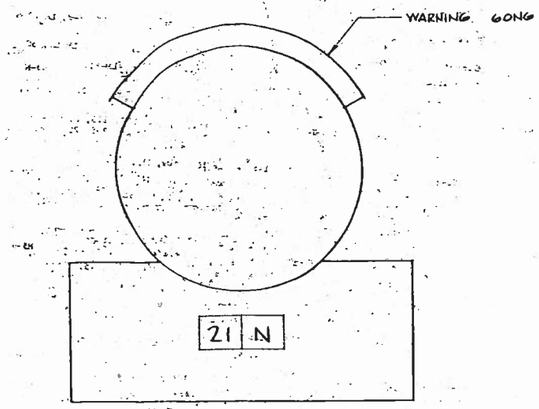
MEMBER E.C.A.D.
Residential Commercial Industrial

TUDOR ELECTRIC, Inc.
Electrical Contractors
1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE	
	DRAWN BY: JBL	TITLE
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS
	DATE 3/16/86	DRAWING NO. E98



SPAN LOCK LIMIT SWITCH
TERMINAL AND WIRE PAIR LAYOUT
LOCATION OF SPAN LOCK LIMIT SWITCH IS LOCATED IN BASCULE PIER MACHINE GALLERY



TERMINALS AND WIRE PAIRS FOR
ALL WARNING GONGS
LOCATED AT ALL WARNING GATES, AND MAST ARM TRAFFIC SIGNALS

TUDOR ELECTRIC, Inc.
Electrical Contractors
Residential
Commercial
Industrial
1056 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE	
	DRAWN BY: JEL	TITLE
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT. OF TRAN. DIVISION OF HIGHWAYS
	DATE 3/10/86	DRAWING NO. E-99

CONDUIT DESIGNATIONS WITH CONDUCTOR SIZES & MARKINGS INDEX

Coordinate with Drawings E-83 & E-84

Conduit A - 1½" Conduit with 3 #10s labeled as RS-LN-L1, RS-LN-L2, & RS-LN-L3

Conduit B - 1¼" Conduit with 6 #10s labeled as 156, 157, N, HLP-CB-11A, HLP-CB-11N, GRND

Conduit C - 1" Conduit with 3 #10s and 1 pair of #12 twisted labeled as 58, 303, 307, 52, 53

Conduit D - 1½" Conduit with 9 #10s labeled as CB-HKB-L1, CB-HKB-L2, CB-HKB-L3, 310, 311, 327, 332, 162, 425

Conduit E - 1½" Conduit with 9 #10s labeled as CB-SKB-L1, CB-SKB-L2, CB-SKB-L3, 310, 311, 332, 333, 162, 426

Conduit F - 3/4" Conduit with 4 #10s labeled as 311, 312, 30, 402

Conduit G - 1" Conduit with 5 #10s labeled as 131, 132, 133, 143, SEL-N

Conduit H - 2" Conduit with 18 #10s labeled as 303, 320, 322, 324, 332, 326, 330, 21, 337, 21, 306, 21, 28, 155, 162, 427, 162, 428

Conduit I - 2½" Conduit with 3-4/0 and 2 #10s labeled as LN-L1-N, LN-L2-N, LN-L3-N, 50, N

Conduit J - 2½" Conduit with 3-4/0 and 2 #10s labeled as LN-L1, LN-L2, LN-L3, 50, N

Conduit K - 3/4" Conduit with 4 #10s labeled as 162, 424, 287, 268

Conduit L - 2" Conduit with 26 #10s labeled as 121, N, 104, 109, 115, N, 42, 43, CB-GSE-L1, CB-GSE-L2, CB-GSE-L3, 215, 21, 217, 21, 206, 207, 26, 102, 162, 403, 162, 404, 141, 142, N

Conduit M - 2" Conduit with 24 #10s labeled as 121, N, 104, 109, 115, N, CB-GSE-L1, CB-GSE-L2, CB-GSE-L3, 141, 142, N, 220, 21, 222, 21, 205, 206, 26, 102, 162, 405, 162, 406

Conduit N - 1½" Conduit with 4 #10s labeled as 104, 109, 115, N

Conduit O - 1½" Conduit with 4 #10s labeled as 104, 109, 115, N

Conduit P - 1½" Conduit with 20 #10s labeled as 121, N, CB-GSE-L1, CB-GSE-L2, CB-GSE-L3, 141, 142, N, 220, 21, 222, 21, 205, 206, 26, 102, 162, 405, 162, 406

Conduit Q - 3½" Conduit with 3-500MCMs and 1-4/0 labeled as MSL1, MSL2, MSL3, MS-N

Conduit R - 3½" Conduit with 3-500MCMs and 1-4/0 labeled as MSL1, MSL2, MSL3, MS-N

Conduit S - 1½" Conduit with 6 #10s labeled as 121, N, 104, 109, 115, N

Conduit T - 2" Conduit (Empty conduit for telephone use. Contractor to pull #10 steel fish wire.)

Conduit U - 1½" Conduit with 6 #10s labeled as 121, N, 104, 109, 115, N

Conduit V - 1½" Conduit with 20 #10s labeled as 121, N, 141, 142, N, CB-GSE-L1, CB-GSE-L2, CB-GSE-L3, 215, 21, 217, 21, 206, 207, 26, 102, 162, 403, 162, 404

Conduit X - 1" Conduit with 2 #10s labeled as 42, 43

Conduit Z - 3/4" Conduit with 4 #10s labeled as HLP-CB-11C, HLP-CB-11N, HLP-CB-13, HLP-CB-13N

Conduit AA - 3" Conduit with 44 #10s labeled as CB-SP-L1, CB-SP-L2, CB-SP-L3, HLP-CB-11N, HLP-CB-11A, HLP-CB-11B, HLP-CB-11C, HLP-CB-13, HLP-CB-13N, CB-HKB-L1, CB-HKB-L2, CB-HKB-L3, CB-SKB-L1, CB-SKB-L2, CB-SKB-L3, 157, 158, N, 50, 50N, 52, 53, 58, 303, 307, 162, 423, 268, 269, 131, 132, 134, SEL-N, SP-1, SP-2, SP-3, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10

Conduit AB - 3" Conduit with 44 #10s labeled as 303, 320, 322, 324, 322, 326, 330, 21, 337, 21, 306, 21, 28, 155, 162, 427, 162, 427, 162, 428, 30, 402, 311, 312, 310, 311, 327, 332, 162, 425, 310, 311, 332, 333, 162, 426, SP-11, SP-12, SP-13, SP-14, SP-15, SP-16, SP-17, SP-18

Conduit AE - 1" Conduit with 5 #10s labeled as HLP-CB-11, HLP-CB-11N, HLP-CB-11A, HLP-CB-11B, HLP-CB-11C

Conduit AG - 3/4" Conduit with 2 #10s labeled as HLP-CB-11B, HLP-CB-11N

Conduit AI - 1½" Conduit with 7 #10s labeled as CB-SP-L1, CB-SP-L2, CB-SP-L3, 268, 269, 162, 423

Conduit AK - 3/4" Conduit with 4 #10s labeled as 268, 269, 162, 423

Conduit AM - 1½" Conduit with 3 #10s labeled as CB-SP-L1, CB-SP-L2, CB-SP-L3

Conduit BL-A - 3/4" Conduit with 3 #10s labeled as 156, 157, N

Conduit CMA - 3/4" Conduit with 2 #10s labeled as HLP-CB-11A, HLP-CB-11N

Conduit CMB - 3/4" Conduit with 2 #10s labeled as HLP-CB-11A, HLP-CB-11N

Conduit CMC - 3/4" Conduit with 2 #10s labeled as HLP-CB-11A, HLP-CB-11N

Conduit CMD - 3/4" Conduit with 2 #10s labeled as HLP-CB-11A, HLP-CB-11N

Conduit FL-A - 3/4" Conduit with 2 #10s labeled as 156, N

Conduit LP-G - 3/4" Conduit with 4 #10s labeled as HLP-CB-11C, HLP-CB-11N, HLP-CB-13, HLP-CB-13N

Conduit LP-H - 3/4" Conduit with 4 #10s labeled as HLP-CB-11C, HLP-CB-11N, HLP-CB-13, HLP-CB-13N

Conduit LP-J - 3/4" Conduit with 4 #10s labeled as HLP-CB-11C, HLP-CB-11N, HLP-CB-13, HLP-CB-13N

Conduit LP-K - 3/4" Conduit with 2 #10s labeled as HLP-CB-11C, HLP-CB-11N

Conduit LP-P - 3/4" Conduit with 4 #10s labeled as HLP-CB-11A, HLP-CB-11B, HLP-CB-11C, HLP-CB-11N

Conduit LP-R - 3/4" Conduit with 4 #10s labeled as HLP-CB-11A, HLP-CB-11B, HLP-CB-11C, HLP-CB-11N

Conduit LP-U - 3/4" Conduit with 4 #10s labeled as HLP-CB-11A, HLP-CB-11B, HLP-CB-11C, HLP-CB-11N

Conduit LP-S - 3/4" Conduit with 4 #10s labeled as HLP-CB-11C, HLP-CB-11N, HLP-CB-13, HLP-CB-13N

Conduit LP-A - 3/4" Conduit with 4 #10s labeled as HLP-CB-11C, HLP-CB-11N, HLP-CB-13 HLP-CB-13N

Conduit LP-C - 3/4" Conduit with 2 #10s labeled as HLP-CB-11C, HLP-CB-11A

Conduit GB - 2" Conduit with 21 #10s labeled as RA-42A, RA-32, RA-63, RA-33, RA-41, RA-40, RA-39, RA-48, RA-38, RA-36, RA-80, RA-12, RA-42, RA-61, RA-58, RA-59, RA-60, RA-34, RA-3, RA-FT1, RA-FT2 (FT designates fuel tank) (RA is our identification for Remote Annunciator. Terminals in Operators Room and terminals on generator will not have RA preceeding the number.)

Conduit HL-A - 3/4" Conduit with 2 #10s labeled as HL1, HL1N

Conduit GA - 3/4" Conduit with 2 #10s labeled as CB-RO-L1, CB-RO-L2

Conduit GC - 3/4" Conduit with 2 #10s labeled as CB-RO-L1, CB-RO-L2

Conduit GD - 3/4" Conduit with 2 #10s labeled as 446, 447

Conduit GE - 3½" Conduit with 3-250MCMs, 1-4/0, and 2 #10s labeled as HL1, HL2, HL3, HLN, HL1, HL1N, respectfully

Conduit BYA - 3/4" Conduit with 2 #10s labeled as HL1, HL1N

Conduit LP - 3" Conduit with 3 #4s labeled as 15L1, 15L2, 15N, and 32 #10s labeled as CKT1, CKT1N, CKT2, CKT2N, CKT3, CKT3N, CKT4, CKT4N, CKT5, CKT5N, CKT6, CKT6N, CKT7, CKT7N, CKT8, CKT8N, CKT9, CKT9N, CKT10, CKT10N, CKT11, CKT11N, CKT12, CKT12N, CKT13, CKT13N, CKT14, CKT14N, CKT15, CKT15N, CKT16, CKT16N

Conduit FL - 3/4" Conduit with 2 #10s labeled as FT1, FT2

All of the above refer to drawing E84

From Power Cabinet in Equipment Room up to Control Desk in Operator's Room via wiring trough and 3" conduits with 34 #10s and 2 #6s labeled as 30, 9, 30N, 4, 5, 6, 7, 8, 10, CT1, CT2, CT3, 13, 14, 15, N, 16, 17, 18, 19, 22, 23, 29N, 29, 40, 41, 35N, 24, 25, 28N, 35, 28, 131, 159, 126, 128 (128 & 128 are #6s):

From Auxiliary Panel in Equipment Room to Control Desk via wiring trough and 3" Conduit with 67 #10s and 4 #6s labeled as 39, 68, 71, 104, 109, 115, 127, 156, 162, 200, 204, 209, 211, 212, 213, 214, 216, 218, 219, 221, 223, 224, 226, 228, 229, 231, 233, 237, 238, 239, 240, 242, 245, 246, 247, 251, 254, 260, 265, 267, 271, 272, 275, 277, 288, 300, 303, 304, 305, 308, 309, 310, 323, 324, 325, 326, 327, 511, 412, 413, 414, 415, 420, 422, 100, 102, 26, 129, 130, 126, 127 (129, 130, 126, 127 are #6s)

From Control Desk to Drive Control via 3" Conduits and wiring trough with 13 #10s labeled as 62, 63, 64, 65, 66, 67, 68, 69, 70, 80, 81, 330, 401

From Control Desk to Automatic Transfer Switch (in Power Cabinet) via 3" Conduit and wiring trough with 3 #10s labeled as 446, 447

From Control Desk to Submarine Terminal Cabinet in East Bascule Pier via 3" Conduit and wiring trough with 12 #10s labeled as 42, 43, 156, 162, 407, 408, 409, 410, 416, 417, 418, 419

From Control Desk to Terminal Box A in Bascule Pier Machine Gallery via 3" Conduit, wiring trough, Conduit AA, and Conduit AB with 24 #10s labeled as 303, 320, 322, 324, 322, 326, 330, 21, 337, 21, 131, 132, 133, 134, SEL-N, 402, 327, 332, 333, 162, 425, 426, 162, 423

From Control Desk to Northeast Warning Gate via 3" Conduit, wiring trough, Conduit M, and Conduit P with 3 #10s labeled as 162, 405, 406

From Control Desk to Fully Seated Limit Switch (LS-GSE) via 3" Conduit, wiring trough, and Conduit K with 2 #10s labeled as 162, 424

From Control Desk to East Fender Navigation Lights via 3" Conduit, wiring trough, and Conduit FL-A with 2 #10s labeled as 156, 156N

From Auxiliary control Cabinet to Power Control Cabinet via wiring trough with 7 #10s labeled as 20, 21, 26, 27, 35, 128, N

From Auxiliary Control Cabinet to Drive Control Cabinet via wiring trough with 10 #10s labeled as 31, 99, 66, 102, 302, 303, 307, 329, 330, 331

From Power Cabinet to Drive Control Cabinet via wiring trough with 2 #10s labeled as 35, N

From Control Desk to Roadway Lighting via wiring trough and 3" Conduit, 42 & 43 travel through Submarine Cabinet End Cables through Conduit HK and Conduit WKK on west approach side and through Conduit L and Conduit X on east side.

MEMBER N.E.C.A.

Residential Commercial Industrial

TUDOR ELECTRIC, Inc.

Electrical Contractor

1058 S. LITTLE CREEK RD.
DOVER, DELAWARE 19901
Phone 736-1444

REVISIONS	PROJECT REHOBOTH AVENUE BRIDGE		
	DRAWN BY: JGL	TITLE	
	SCALE NO SCALE	OWNER STATE OF DELAWARE DEPT OF TRAN. DIVISION OF HIGHWAYS	DRAWING NO. E100
	DATE 3/25/86		