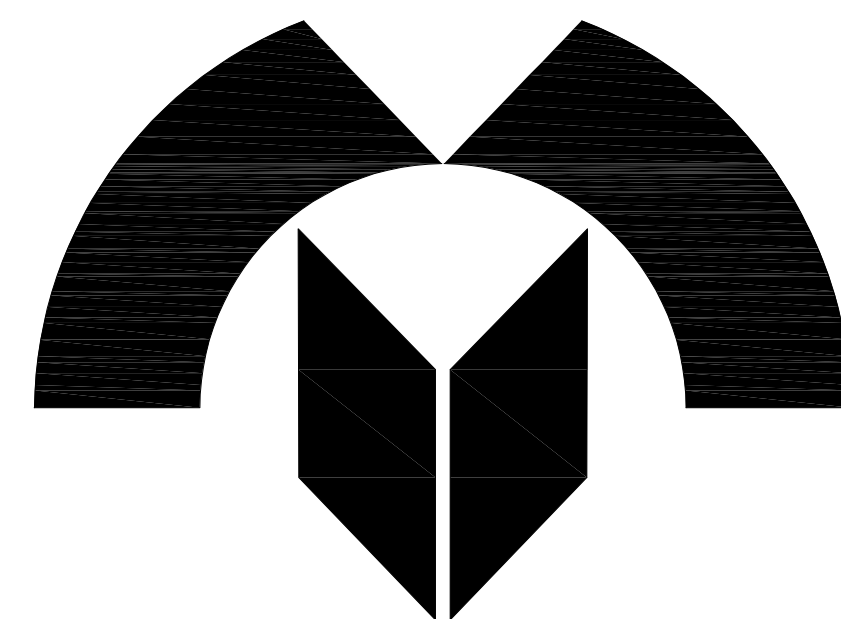




شرکت آسیای آرام

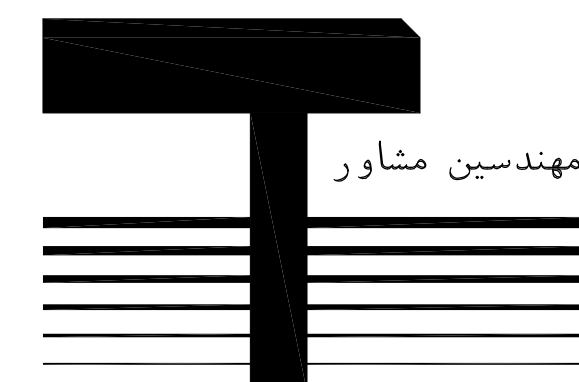
مطالعات و راهکار ترمیم و بهسازی سازه های فلزی و بتنی
اسکله ۵۰ هزار تنی و نوسازی یک سازه دلفین مهاري

نقشه های سازه دلفین مهاري

مهندسین مشاور تدبیر ساحل پارس

بهمن ۱۴۰۴

تدبیر ساحل پارس



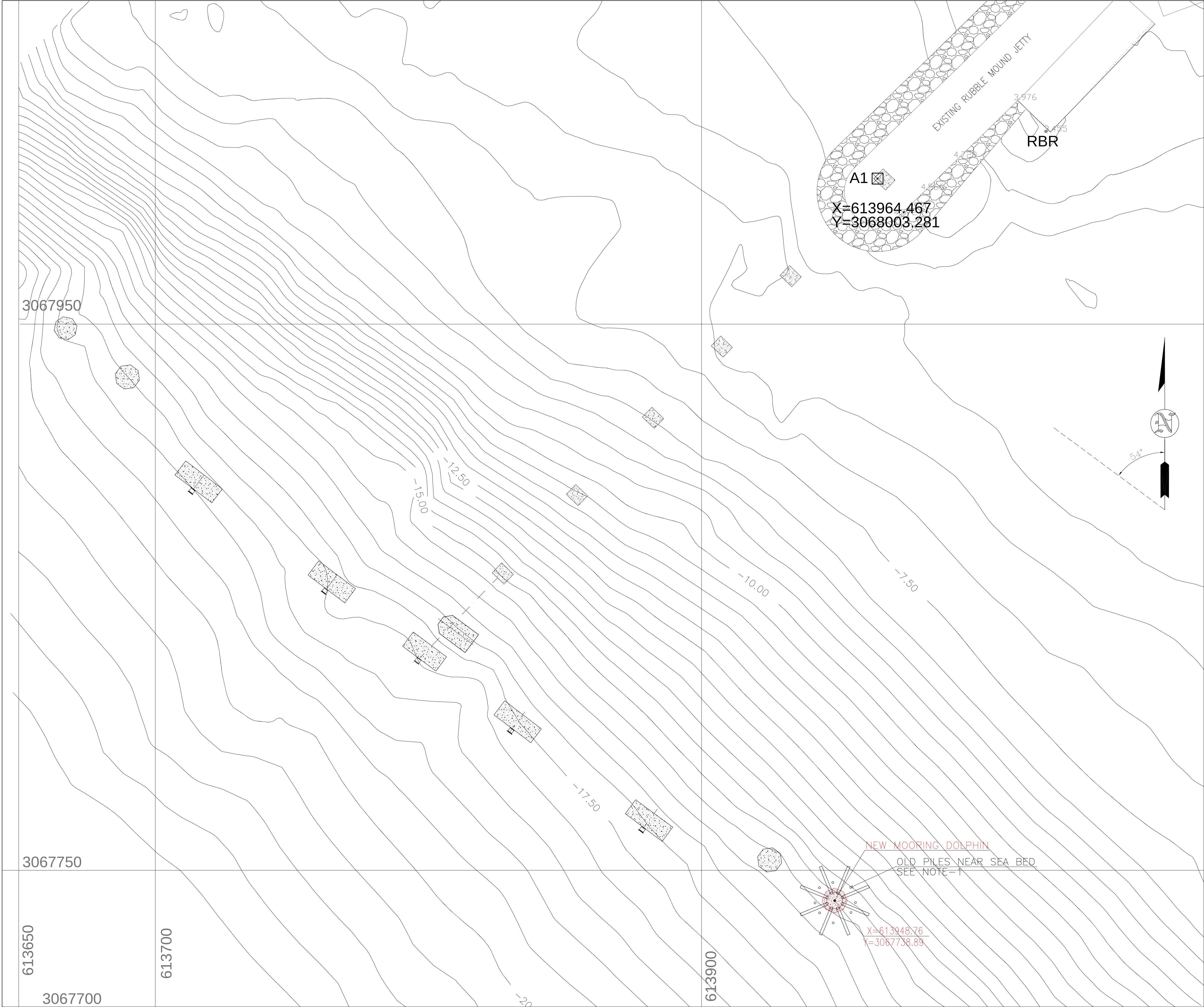
الف - توضیحات عمومی

۱- پیمانکار موظف است از نقشه های موجود نقشه های شاپ تهیه نماید و در صورت مشاهده هرگونه اختلاف یا کمبود در ابعاد و ارتفاعات و یا جزئیات تفصیلی داده شده بین نقشه های فوق الذکر مراتب را قبل از اقدام به اجرا کتبا به دستگاه نظارت و یا شرکت مشاور اطلاع دهدو نقشه های شاپ را به تایید مشاور برساند.

۲- پیمانکار موظف است نقشه های سازه ای را دقیقا مطالعه نموده و هماهنگی لازم در مورد کارهای تاسیساتی و معماری را با دستگاه نظارت و کارفرما به عمل آورده و هرگونه اشکال یا کمبودی را کتبا به مشاور اطلاع دهد.

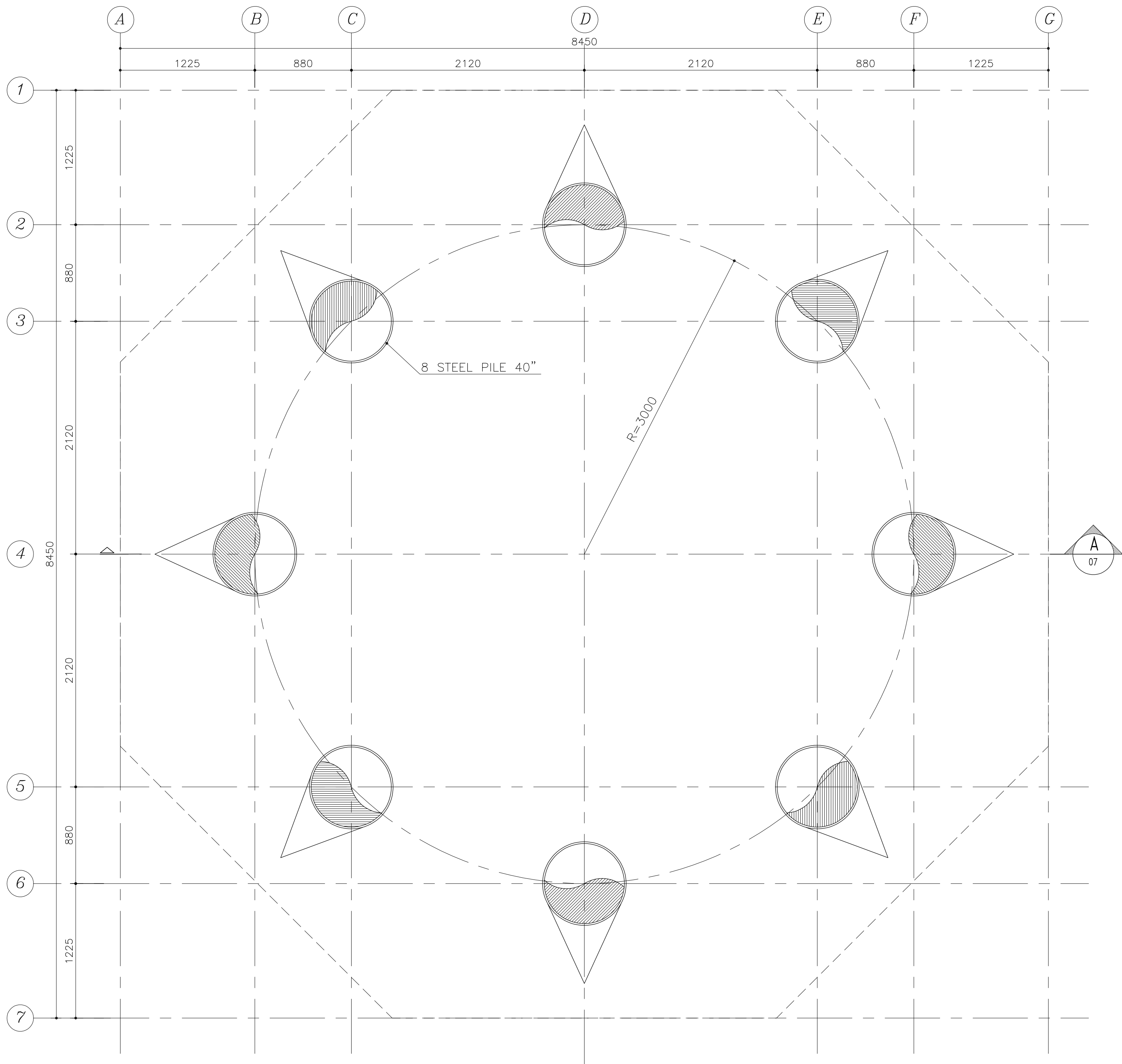
۴- در اجرای کارهای بتی باید علاوه بر موارد زیر تمام مفاد آیین نامه بتن ایران (آبا)، آیین نامه ملی پایایی، فصل سوم نشریه ۶۳۲، نشریه ۲۶۶۹۰ سازمان بنادر و سایر مشخصات فنی منضم به قرارداد را رعایت نماید.

</



GENERAL NOTES

1.DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
2.WATER AND SEA BED LEVELS ARE IN METERS AND RESPECT TO CD.
3.PILE CAPACITY MUST BE VERIFIED BY STATIC & DYNAMIC TEST PROGRAMS.
4.STEEL OF PILES IS ST52 OR S355 WITH Fy=355MPa & Fu=520MPa.
5.ALL ELECTRODES AND WELDINGS ARE ACCORDING TO AWS/AISC STANDARD.
6.ALL REINFORCEMENT BARS ARE AIII (fy=4000 kg/cm2).
7.COMPRESSIVE STRENGTH OF CON



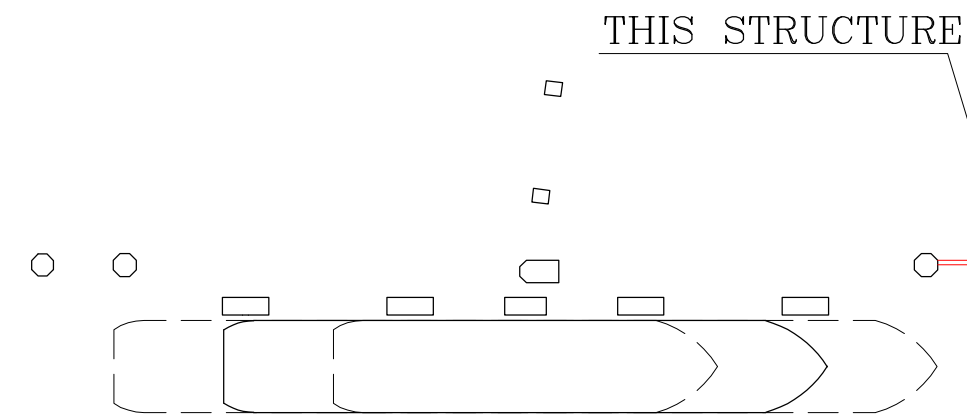
MOORING DOLPHIN PILING PLAN
SC.1:125

PILES COORDINATE TABLE		
PILE AXES	EAST (m)	NORTH (m)
D-2	613971.35	3067737.60
E-3	613972.53	3067735.64
F-4	613971.98	3067733.41
E-5	613970.01	3067732.23
D-6	613967.78	3067732.78
C-5	613966.60	3067734.75
B-4	613967.15	3067736.98
C-3	613969.12	3067738.16

GENERAL NOTES

- DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- WATER AND SEA BED LEVELS ARE IN METERS AND RESPECT TO CD.
- PILE CAPACITY MUST BE VERIFIED BY STATIC & DYNAMIC TEST PROGRAMS.
- STEEL OF PILES IS ST52 OR S355 WITH $F_y=355MPa$ & $F_u=520MPa$.
- ALL ELECTRODES AND WELDINGS ARE ACCORDING TO AWS/AISC STANDARD.
- ALL REINFORCEMENT BARS ARE AIII ($f_y=4000$ kg/cm2).
- COMPRESSIVE STRENGTH OF CONCRETE IS $f'_c=400$ kg/cm2.
- ALL STEEL PLATES ARE ST37 ($f_y=2400$ kg/cm2).
- LENGTH OF PILE MUST BE FINALIZED AFTER TEST PILING PROGRAMS
- STEEL MEMBERS SHALL BE PAINTED BASED ON PROJECT SPECIFICATIONS.
- THE REQUIRED SPECIFICATIONS FOR STEEL PILE DRIVING ARE:
 - PILE HAMMER: DELMAG D62 OR EQUIVALENT WITH IMPACT WEIGHT OF 6200 kg & MAXIMUM IMPACT ENERGY OF 224 KN.M.
 - PILE PENETRATION RATE: ACCORDING TO API MAXIMUM 5 MILLIMETER PER BLOW FOR 40-50 CONSECUTIVE BLOWS.
 - PENETRATION LENGTH IN SEA BED AFTER DREDGING: MINIMUM 12m.
- PILE DRIVING SHALL BE DONE FROM SEA BY CRANE BARGE.
- MINIMUM 1xOPERATION BARGE PLUS 1xSUPPLY BARGE SHALL BE READY.
- THE PROTECTIVE COATING MASTERSEAL-180 BASF OR SIMILAR MATERIAL BY OWNER CONSULTANT APPROVAL SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES.
- MINIMUM CLEAR CONCRETE COVER FOR REINFORCING STEEL SHALL BE 70 mm.
- LIFTING OF CONCRETE FORMWORKS IS NOT PERMITTED PRIOR TO 28 DAYS AGE OF CONCRETE.
- SPACE BETWEEN PILE AND CONCRETE FORMWORK SHALL BE FILLED WITH CEMENT BASED GROUT.
- ALL STEEL PIPES FOR CATWALK ARE ST37 AND WELDING ELECTRODES ARE E70.
- ALL PORTIONS WHICH WILL BE FIELD WELDED SHALL NOT BE PAINTED IN SHOP. PAINTING SHALL BE DONE AT FIELD AFTER FINAL WELDING.
- GRATING DIMENSION DATA IS ACCORDING THIS RULE: (HxTxMESH) WHICH "H" IS FLAT BAR HEIGHT AND "T" IS FLAT BAR THICKNESS.
- THE SURFACE OF GRATING SHALL BE SERRATED.
- NOSING SHALL BE USED ON TREADS AND ON GRATING AT THE HEAD OF STAIRS.
- CONTRACTOR SHALL PREPARE WPS FOR WELDING OF ALL MEMBERS, ESPECIALLY FOR TUBULAR CONNECTIONS BASED ON AWS D1.1. CONSULTANT WOULD REVIEW AND APPROVE THE DETAILS. ANY WELDING OF MEMBERS IS PROHIBITED PRIOR TO APPROVAL OF WPS.

KEY PLAN



04	24-JAN-26	ISSUED FOR TENDER	M.MERZAEI	M.SAFARIAN-SILYABDOUN
03	01-NOV-25	ISSUED FOR TENDER	M.MERZAEI	M.SAFARIAN-SILYABDOUN
02	04-OCT-25	ISSUED FOR TENDER	M.MERZAEI	M.SAFARIAN-SILYABDOUN
01	30-AUG-25	ISSUED FOR APPROVE	M.MERZAEI	M.SAFARIAN-SILYABDOUN
00	12-AUG-25	ISSUED FOR COMMENT	M.MERZAEI	M.SAFARIAN-SILYABDOUN
REV.	DATE	DESCRIPTION	PREP.	CHK/APPR.

CLIENT:



شرکت آسپای آرام

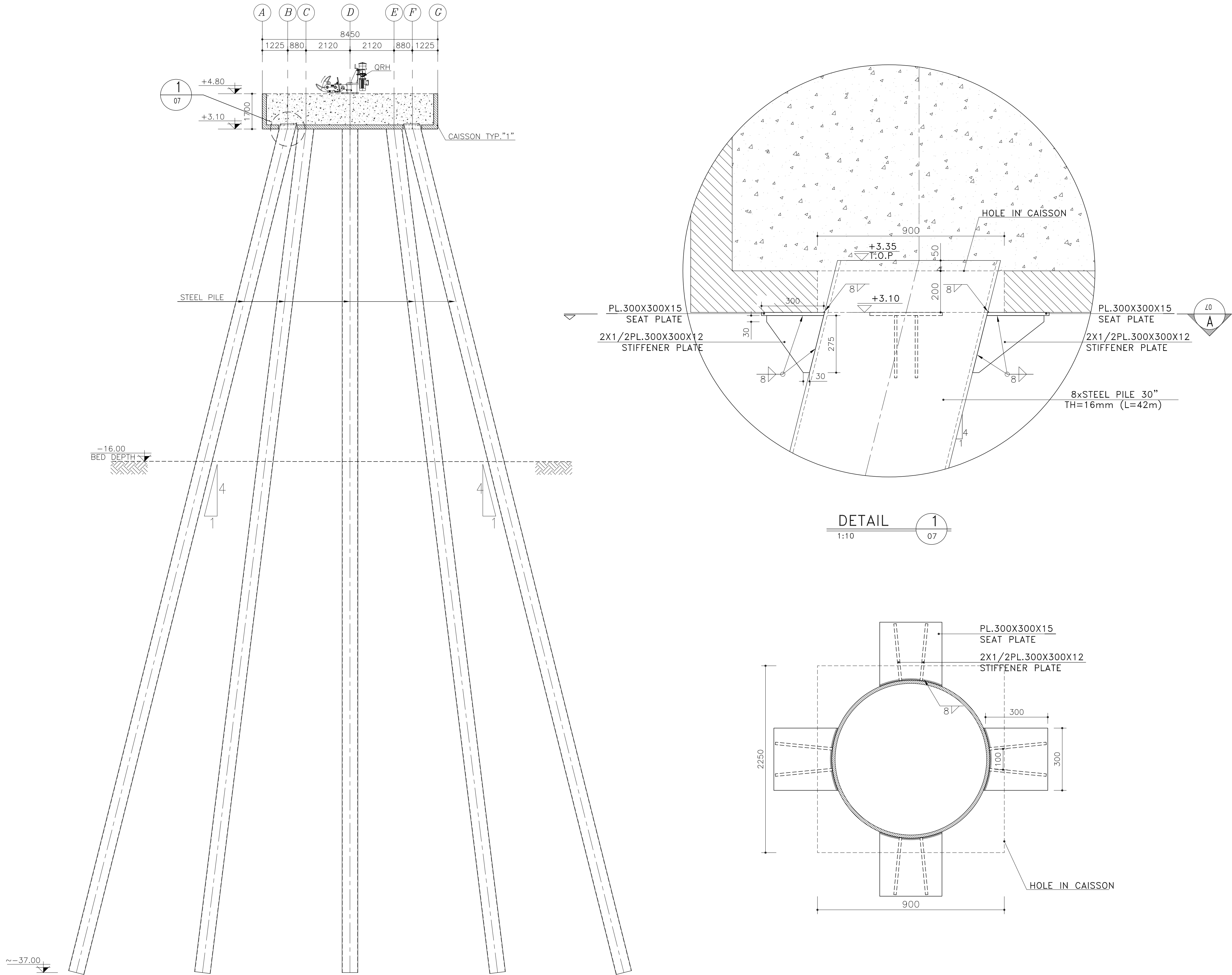
CONSULTANT ENGINEERS:

مهندسین مشاور:

تدفین ساحلی پارس

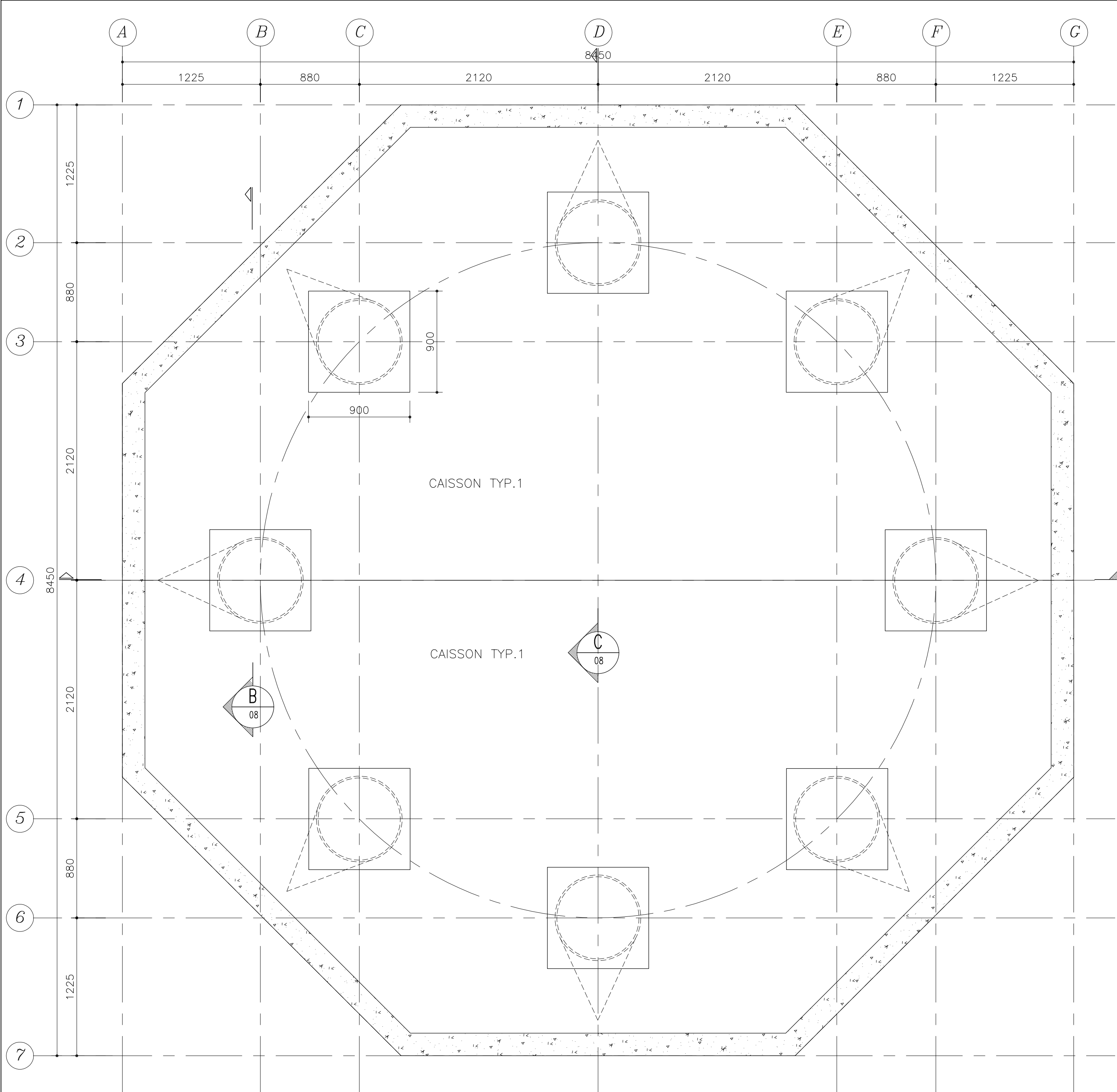
مهندس مشاور تدفین ساحلی پارس

مسئول پروژه: PRO.MANAGER م.م.صالحیان	PROJECT TITLE: مطالعات و طراحی سازه تدفین مهاری	عنوان پروژه:
ترسیم: ENGINEER: آ.م. حسن زاده	DRAWING TITLE: پلان و نمای شمع گونی تدفین مهاری	عنوان نقشه:
تصویر: DRAWN BY: ن.طاجویی	APPROVED BY: DATE:	امبار نقشه: SC: A.S.
شماره پروژه:	فاز مطالعات:	SIZE: A1
PROJECT NO:	PHASE:	شماره نقشه:
2910	ED	ویرایش:
		SHEET NO.
		05/14

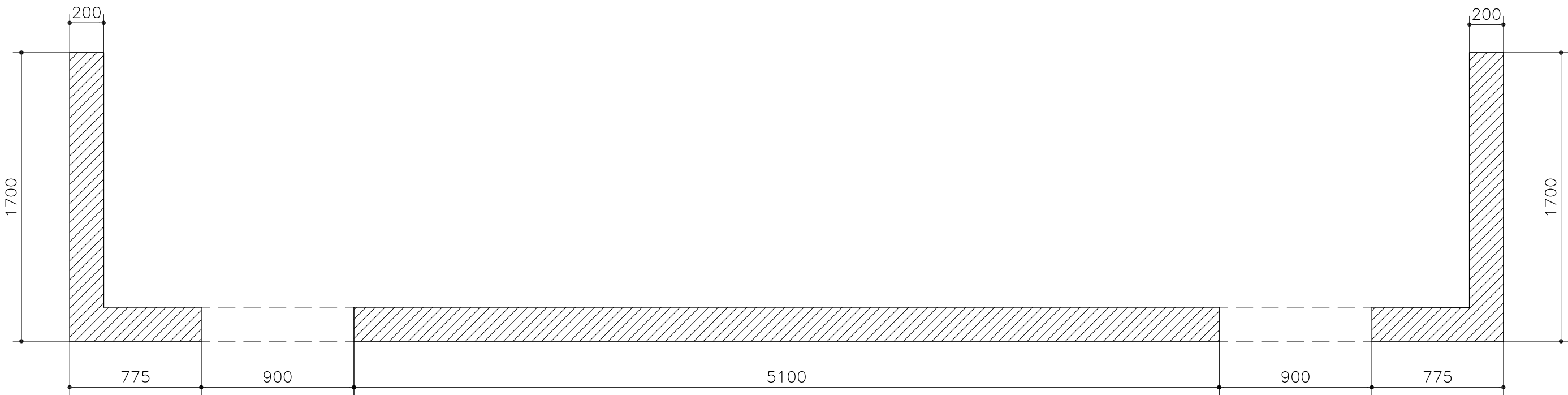


GENERAL NOTES

- 1.DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2.WATER AND SEA BED LEVELS ARE IN METERS AND RESPECT TO CD.
- 3.PILE CAPACITY MUST BE VERIFIED BY STATIC & DYNAMIC TEST PROGRAMS.
- 4.STEEL OF PILES IS ST52 OR S355 WITH $F_y=355MPa$ & F



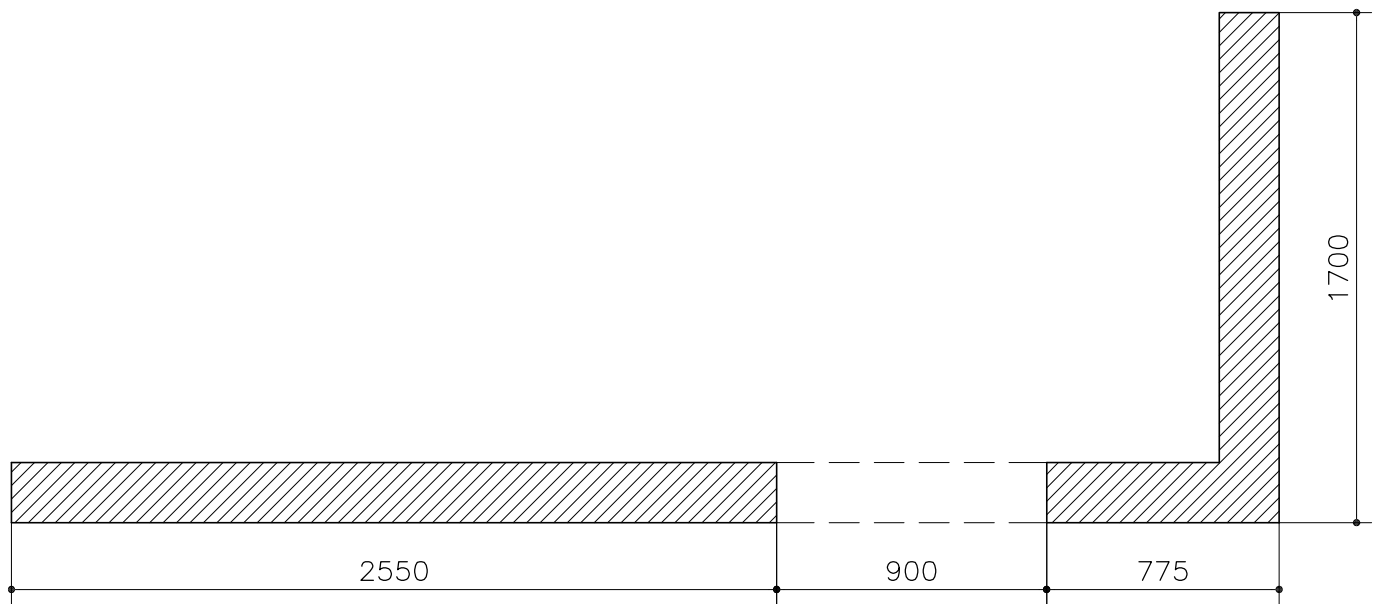
PRECAST FORMWORK PLAN
SC.1:25



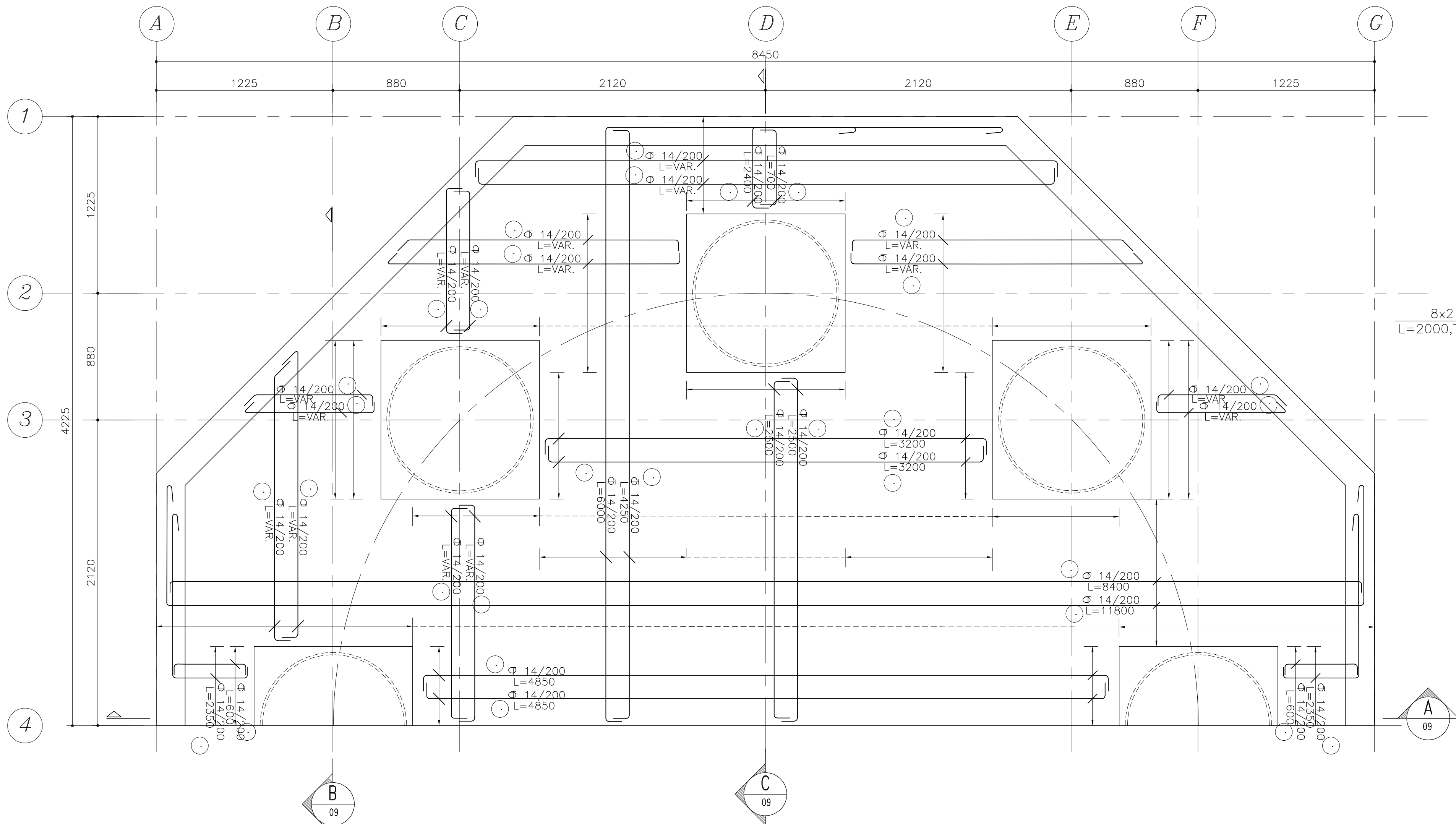
SECTION A
SC.1:25



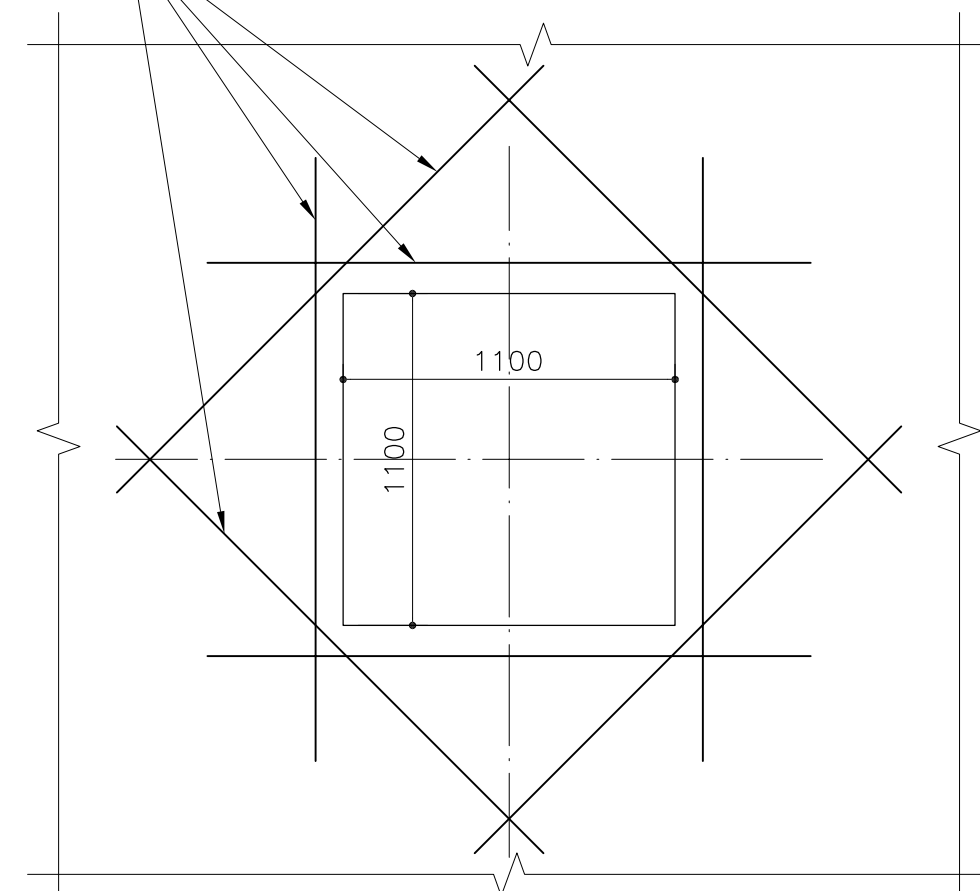
SECTION B
SC.1:25



SECTION C
SC.1:25



8x2 Φ 14
L=2000, TOP&BOT



ADDBAR FOR OPENING
SC.1:25

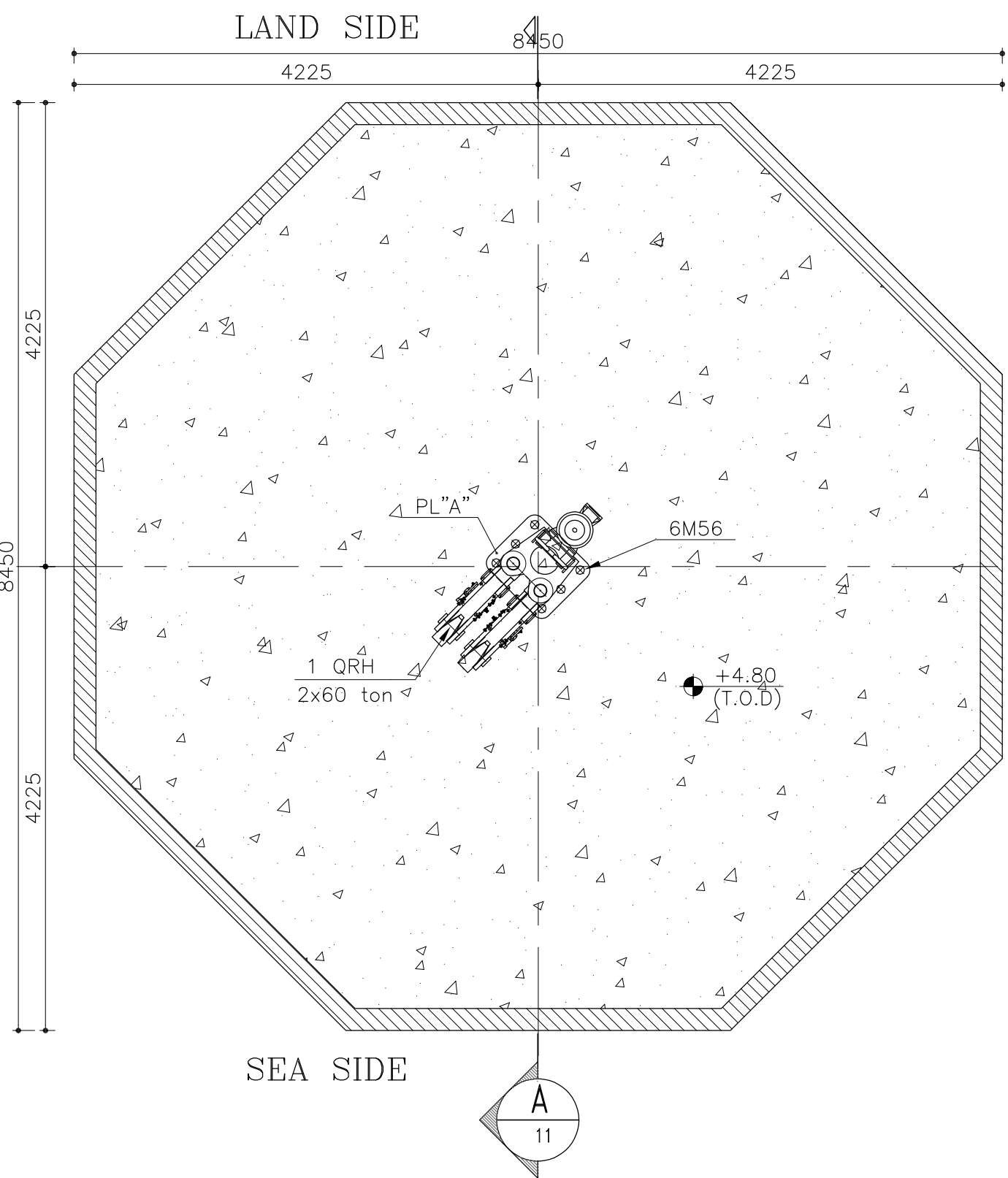
REINFORCEMENT CAISSON PLAN TYPE "1"

SC.1:20

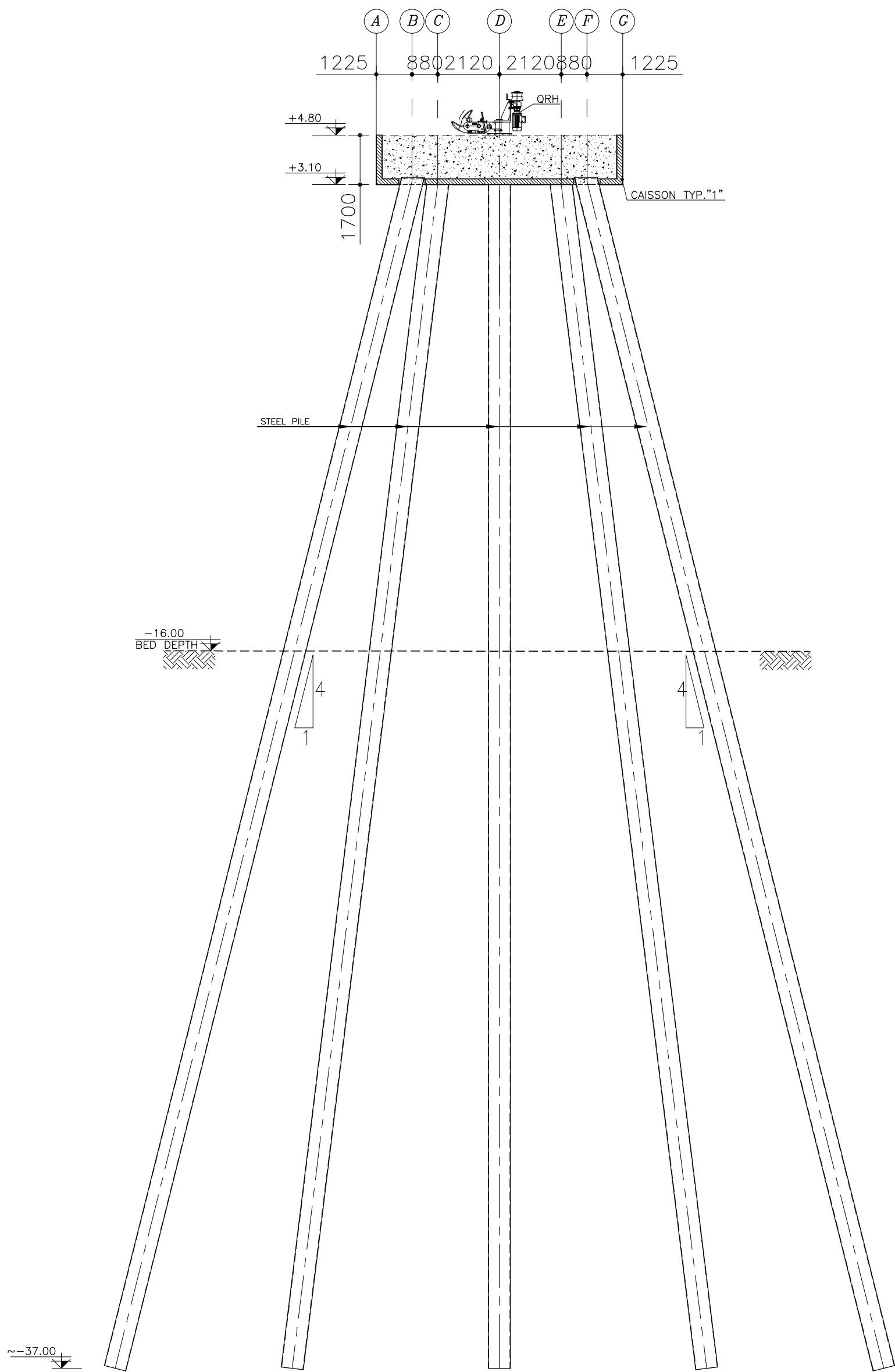
* - جزئیات مربوط به نشیمن مسیر پیاده رو از نقشه های مربوط به پل پیاده رو دلتین برداشت و اجرا گردد.

GENERAL NOTES

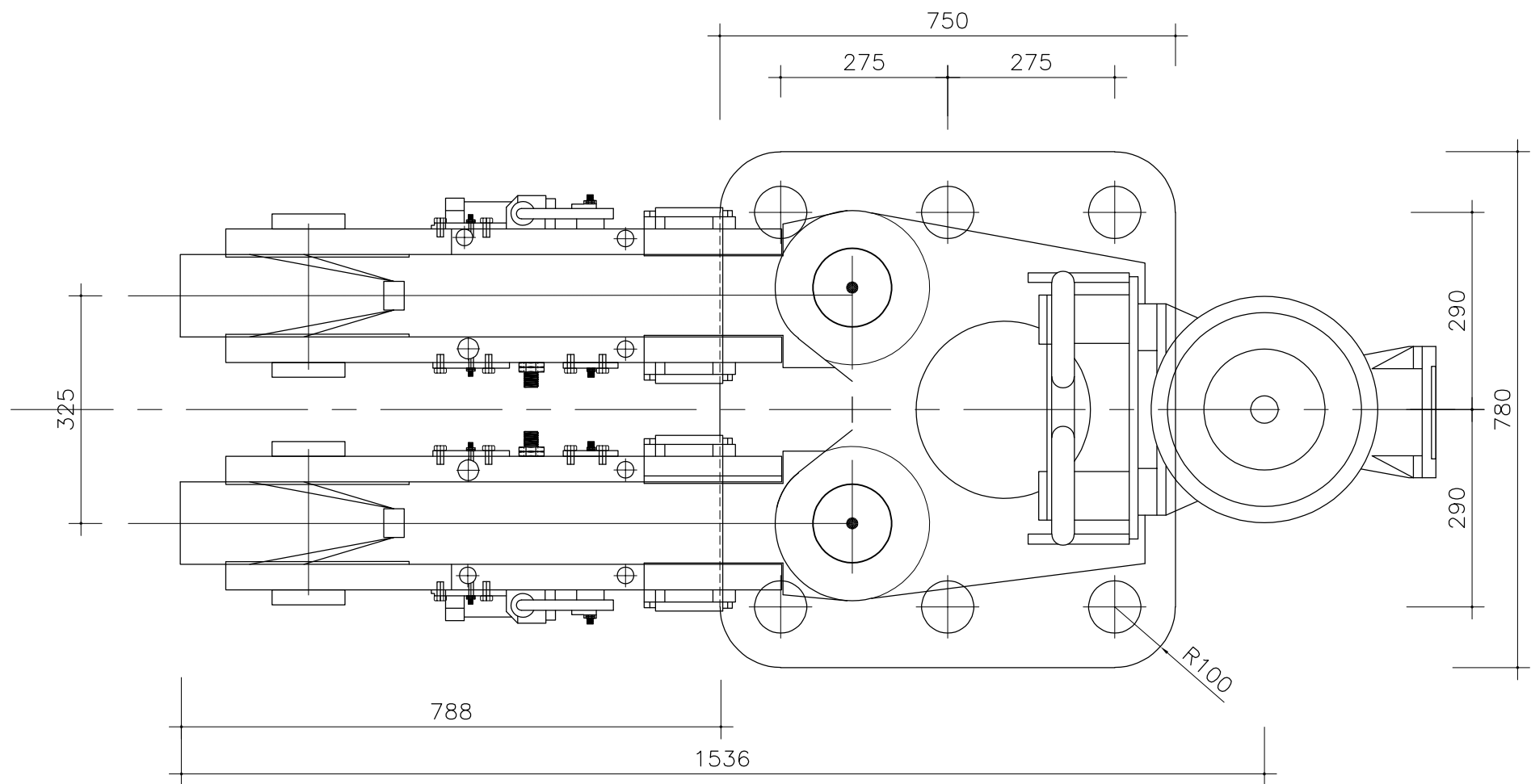
- 1.DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE INDICATED.
- 2.WATER AND SEA BED LEVELS ARE IN METERS AND RESPECT TO CD.
- 3.PILE CAPACITY MUST BE VERIFIED BY STATIC & DYNAMIC TEST PROGRAMS.
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- 5.ALL ELECTRODES AND WELDINGS ARE ACCORDING TO AWS/AISC STANDARD.
- 6.ALL REINFORCEMENT BARS ARE AII ($f_y=4000\text{ kg/cm}^2$).
- 7.COMPRESSIVE STRENGTH OF CONCRETE IS $f'_c=400\text{ kg/cm}^2$.
- 8.ALL STEEL PLATES ARE ST37 ($f_y=2400\text{ kg/cm}^2$).
- 9.LENGHT OF PILE MUST BE FINALIZED AFTER TEST PILING PROGRAMS
- 10.STEEL MEMBERS SHALL BE PAINTED BASED ON PROJECT SPECIFICATIONS.
- 11.THE REQUIRED SPECIFICATIONS FOR STEEL PILE DRIVING ARE:
 - a) PILE HAMMER: DELMAG D62 OR EQUIVALENT WITH IMPACT WEIGHT OF 6200 kg & MAXIMUM IMPACT ENERGY OF 224 KJ.M.
 - b) PILE

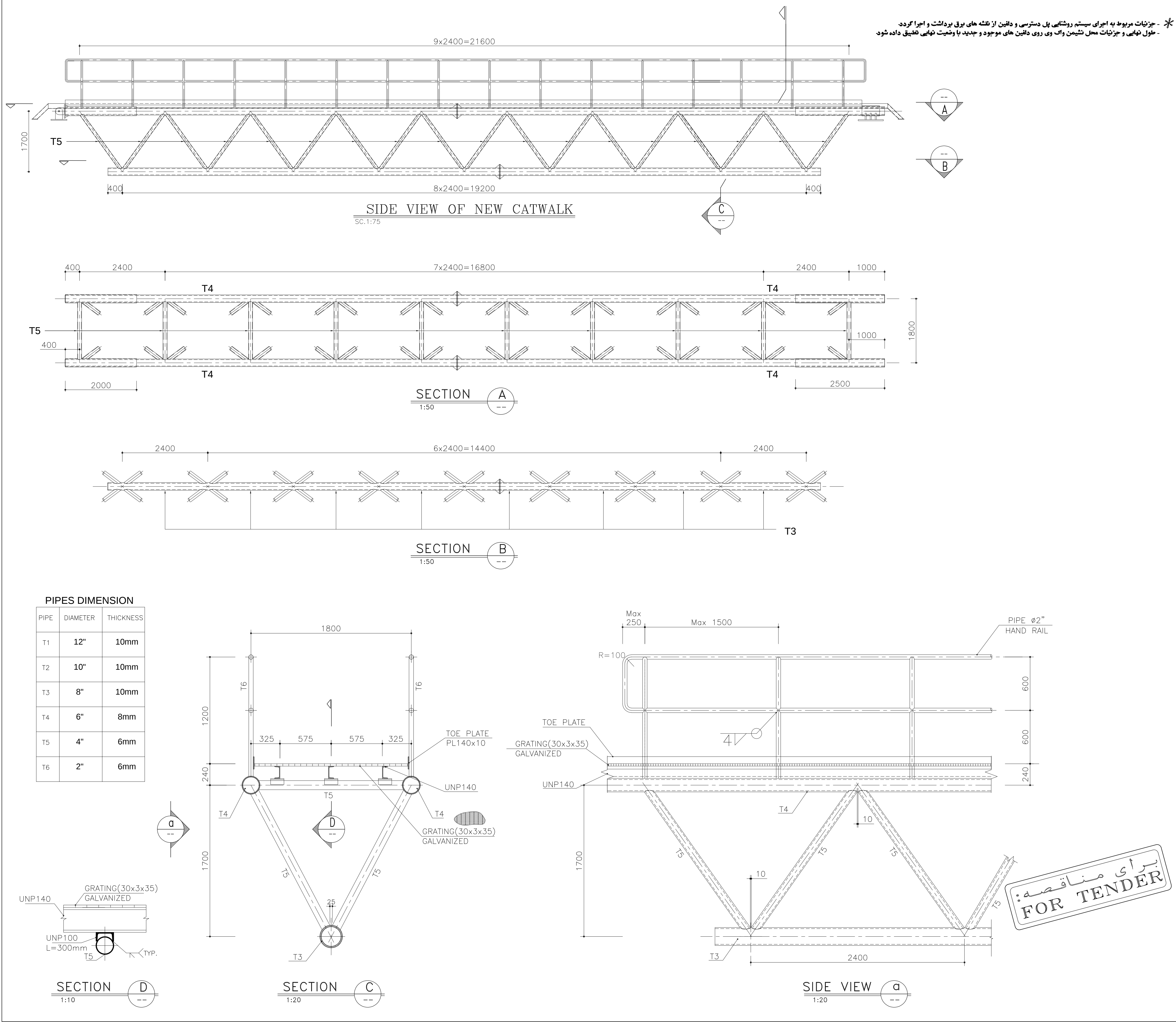


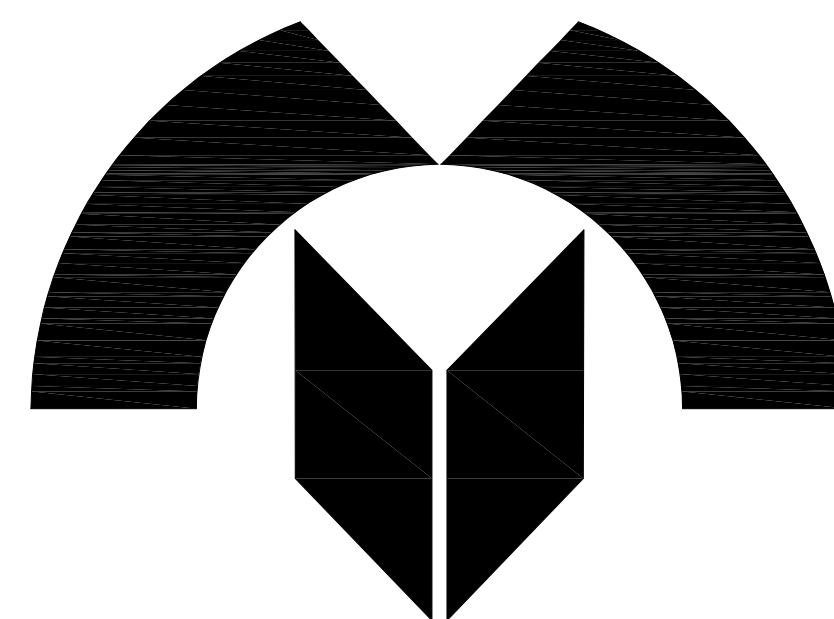
MOORING DOLPHIN PLAN
SC.1:50



SECTION A
SC.1:150







شرکت آسیای آرام

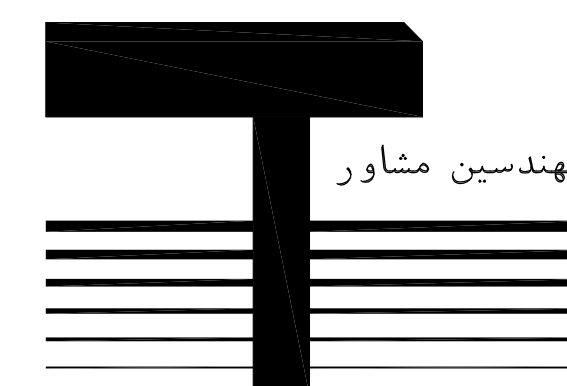
مطالعات و راهکار ترمیم و بهسازی سازه های فلزی و بتنی
اسکله ۵۰ هزار تنی و نوسازی یک سازه دلفین مهاري

نقشه های تاسیسات برق دلفین مهاري

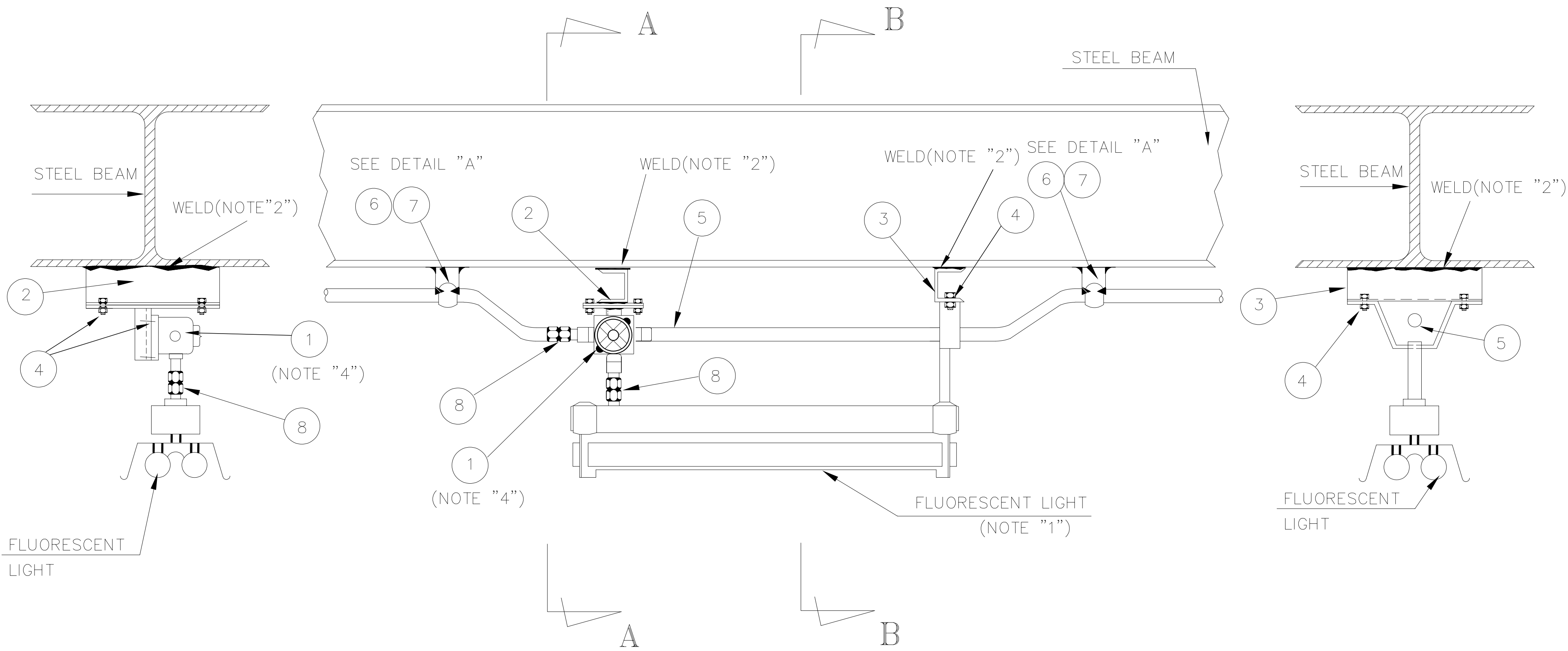
مهندسین مشاور تدبیر ساحل پارس

آبان ۱۴۰۴

تدبیر ساحل پارس



مهندسین مشاور

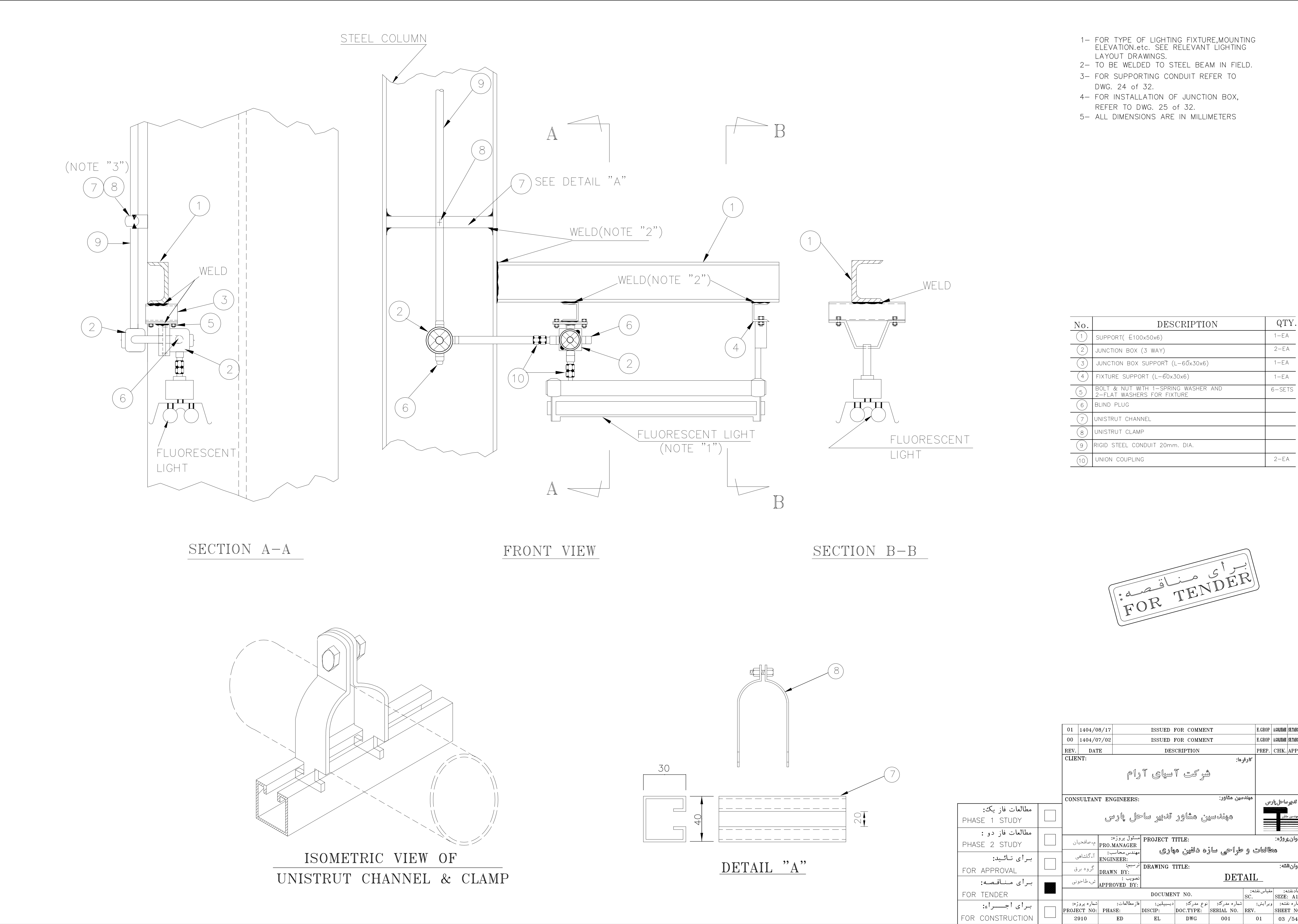


SECTION A-A

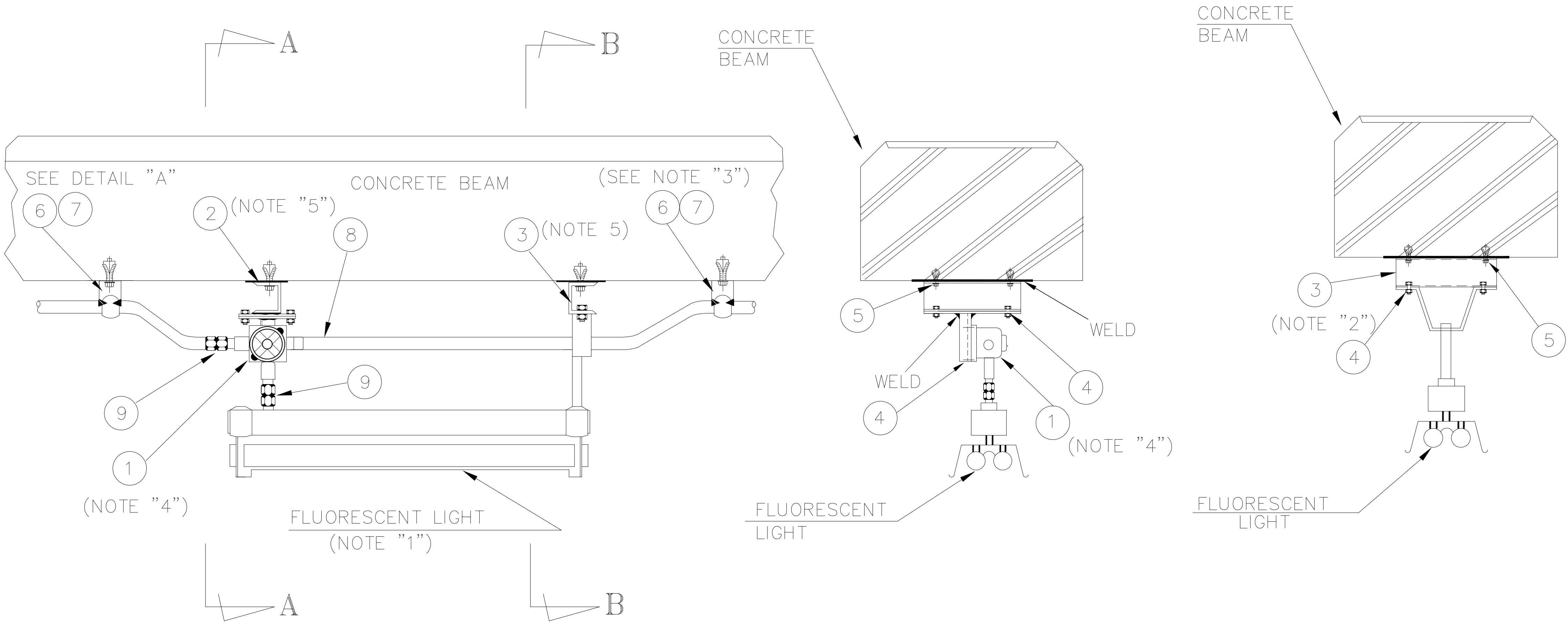
FRONT VIEW

SECTION B-B

- 1- FOR TYPE OF LIGHTING FIXTURE, M



- 1- FOR TYPE OF LIGHTING FIXTURE, MOUNTING ELEVATION, etc. SEE RELEVANT LIGHTING LAYOUT DRAWINGS.
2- JUNCTION BOX TO BE WELDED TO EMBEDDED PLATE OR FIXED WITH MASONRY ANCHOR
3- FOR SUPPORTING OF CONDUIT REFER TO DWG. 24 of 32
4- FOR INSTALLATION OF JUNCTION BOX, REFER TO DWG. 26 of 32
5- THE JUNCTION BOX AND FIXTURE MAY BE MOUNTED DIRECTLY TO THE BEAM WITHOUT SUPPORT.

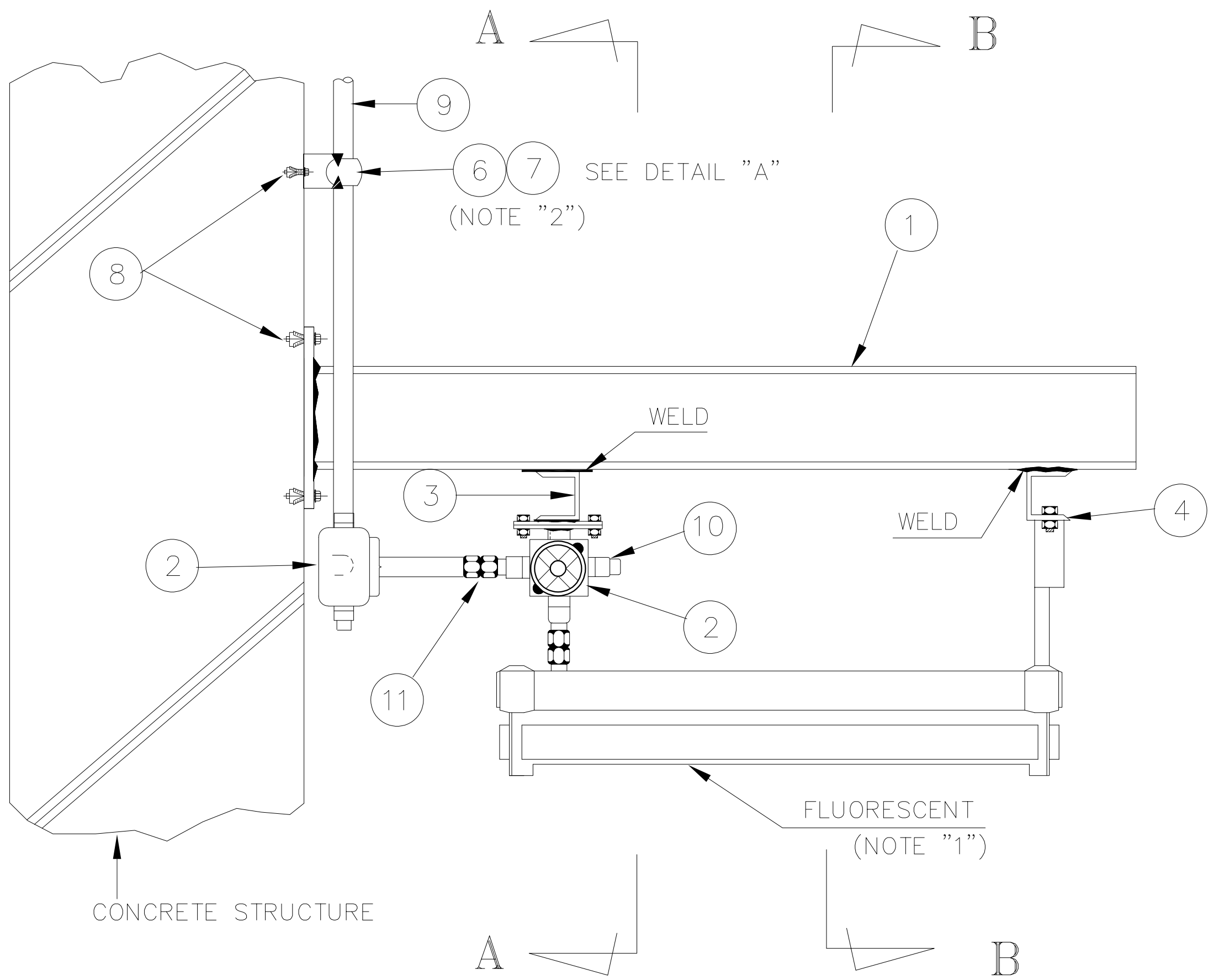


FRONT VIEW

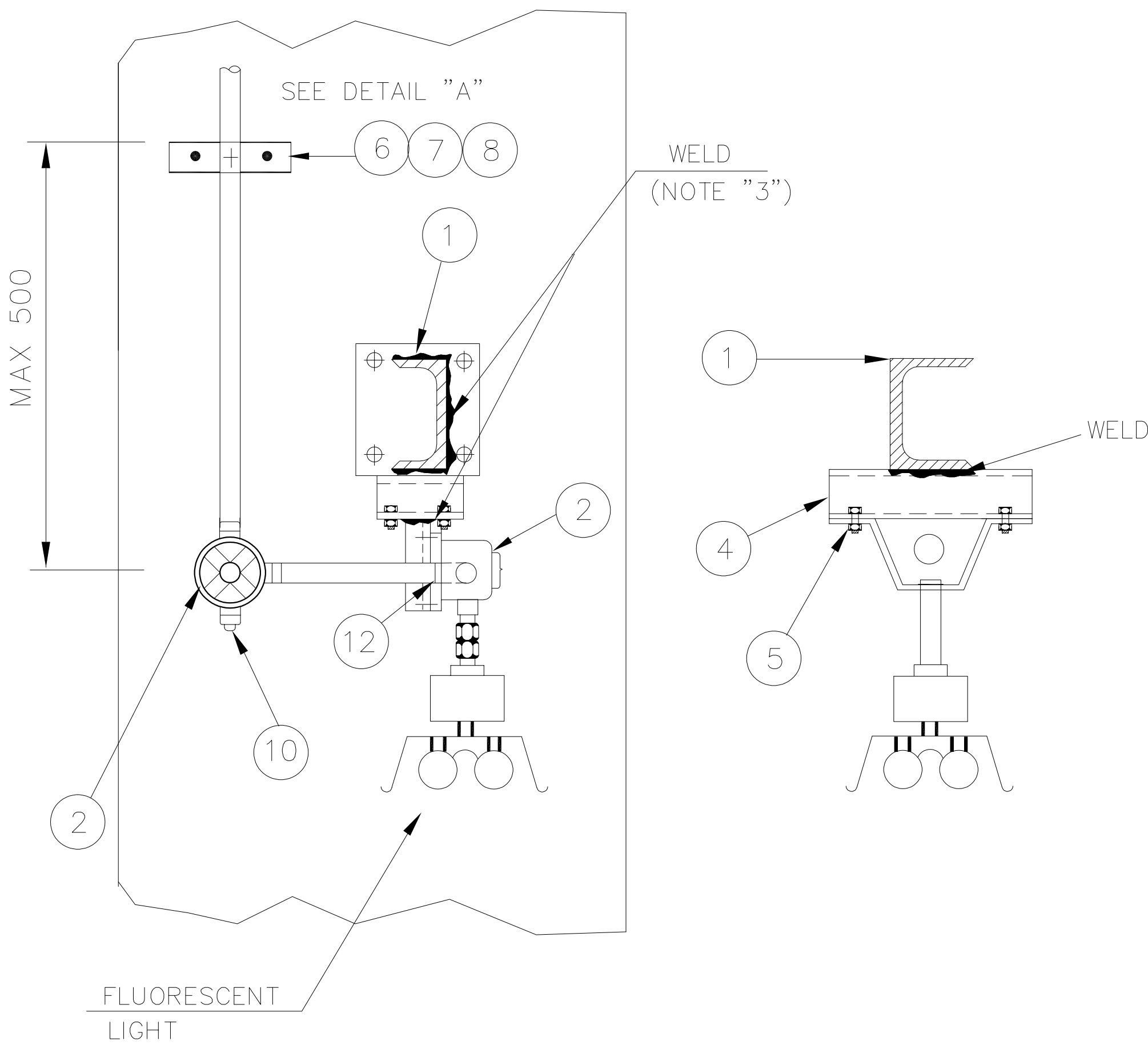
SECTION A-A

SECTION B-B

No.	DESCRIPTION	QTY.
①	JUNCTION BOX (	



FRONT VIEW

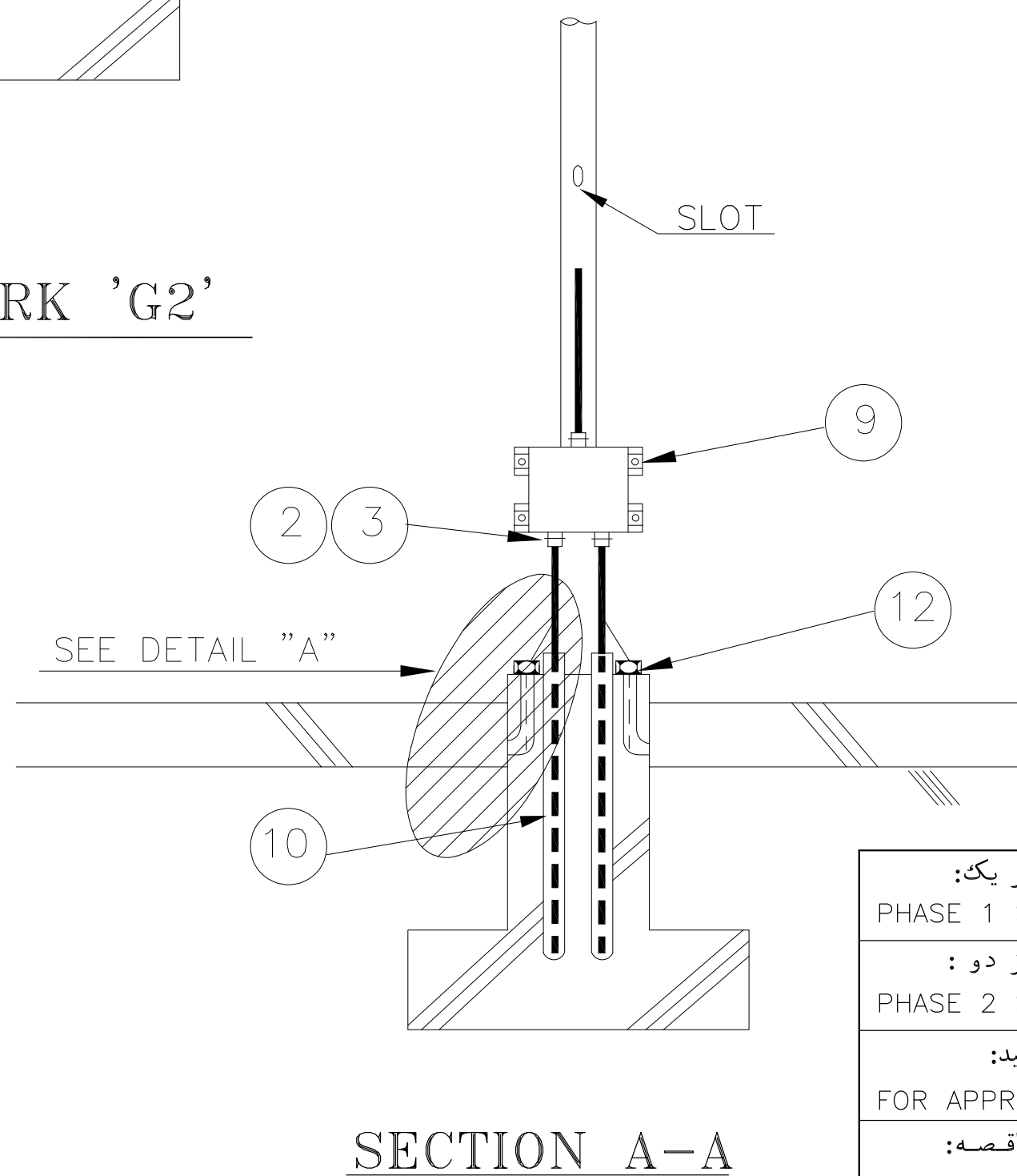
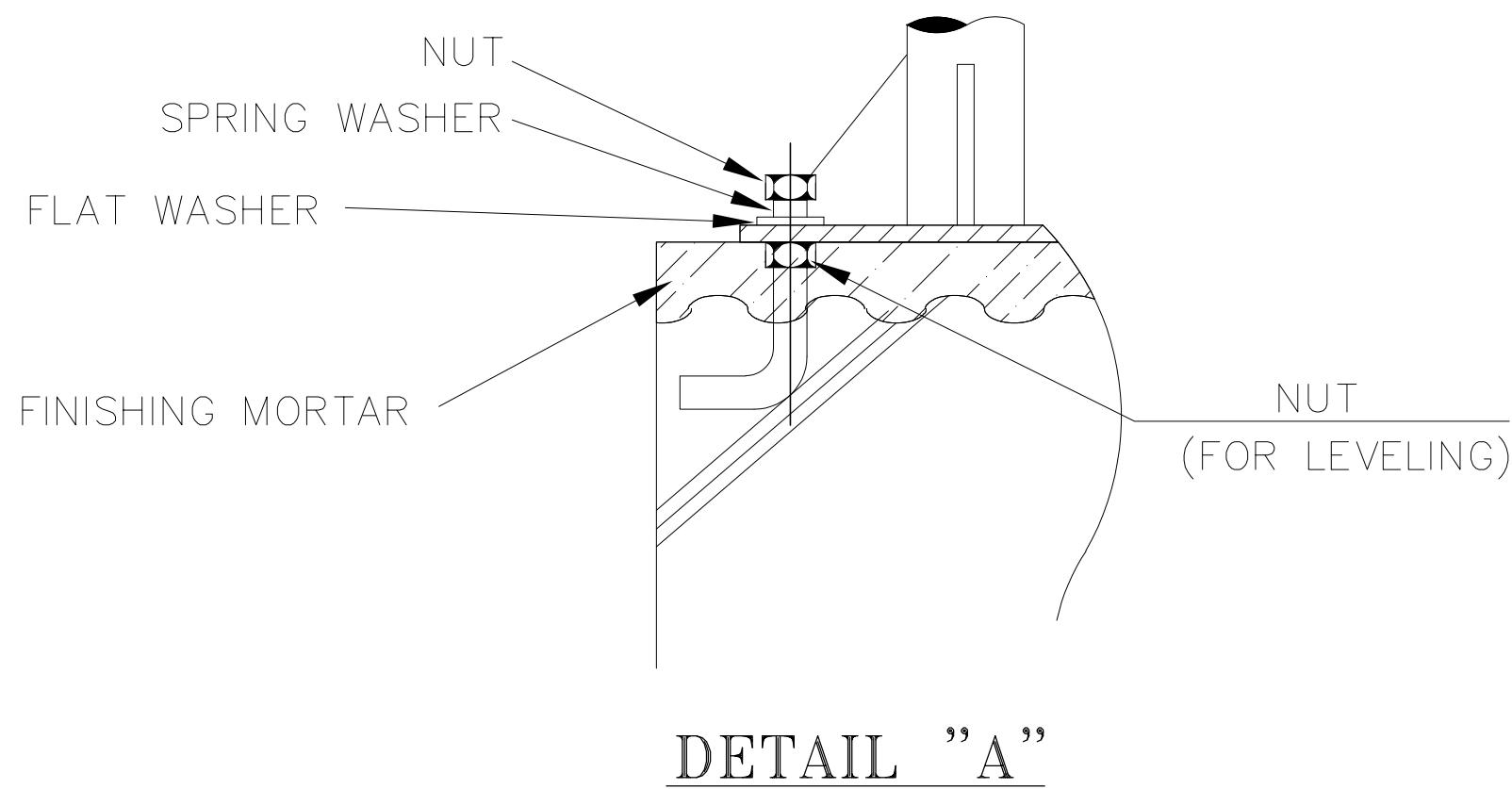
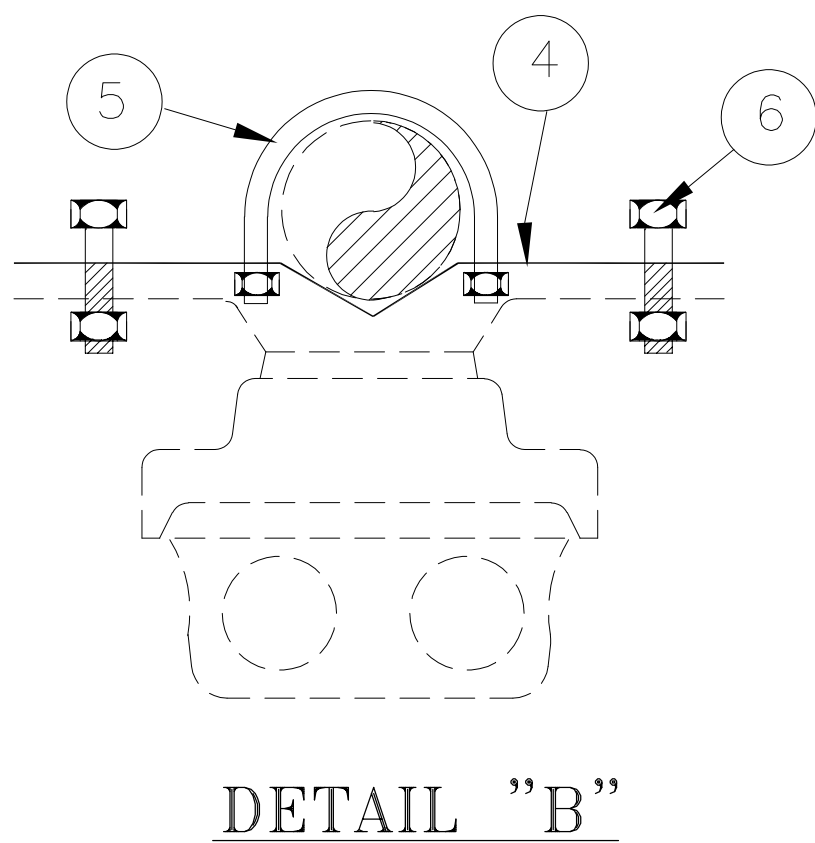
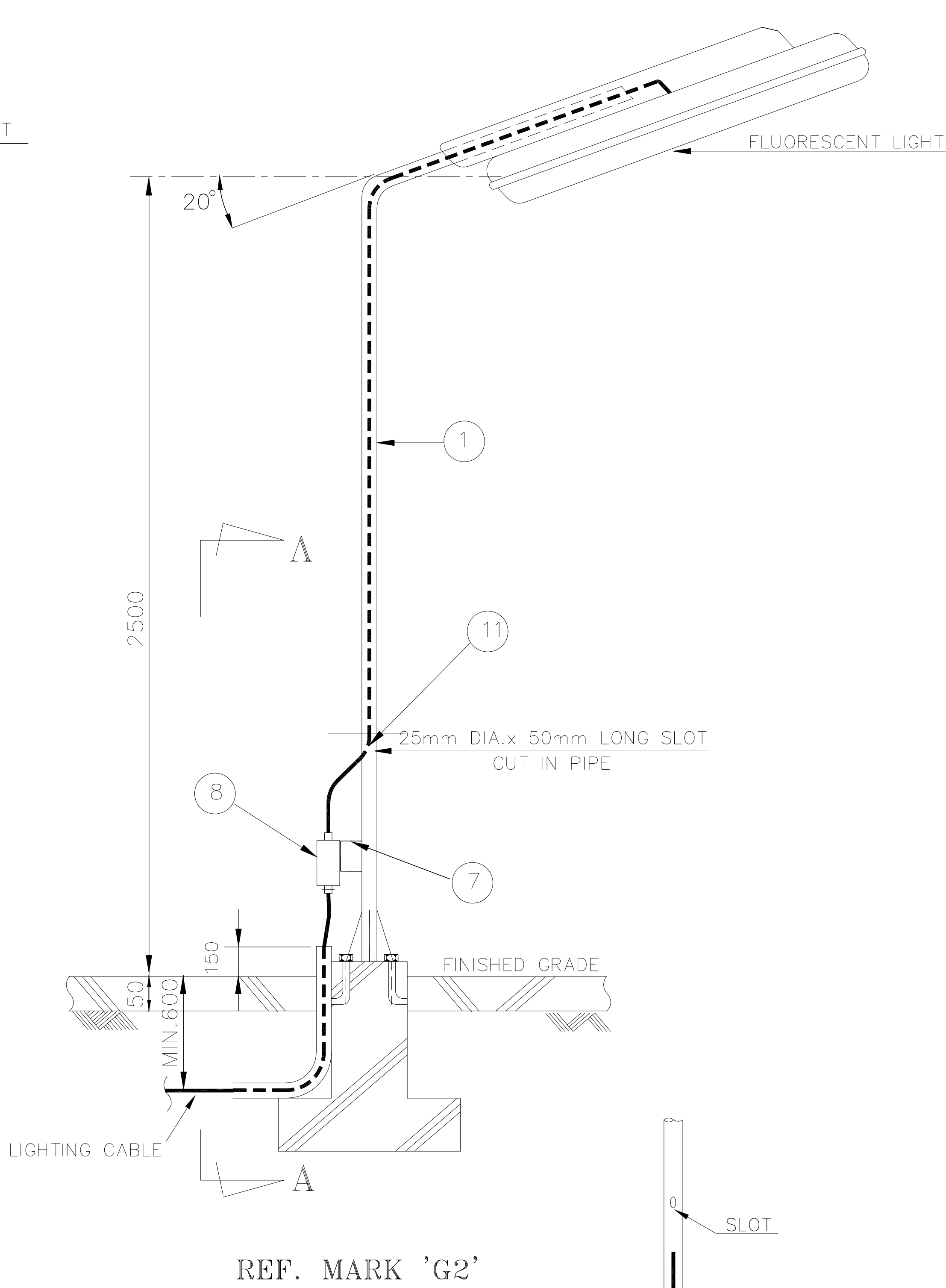
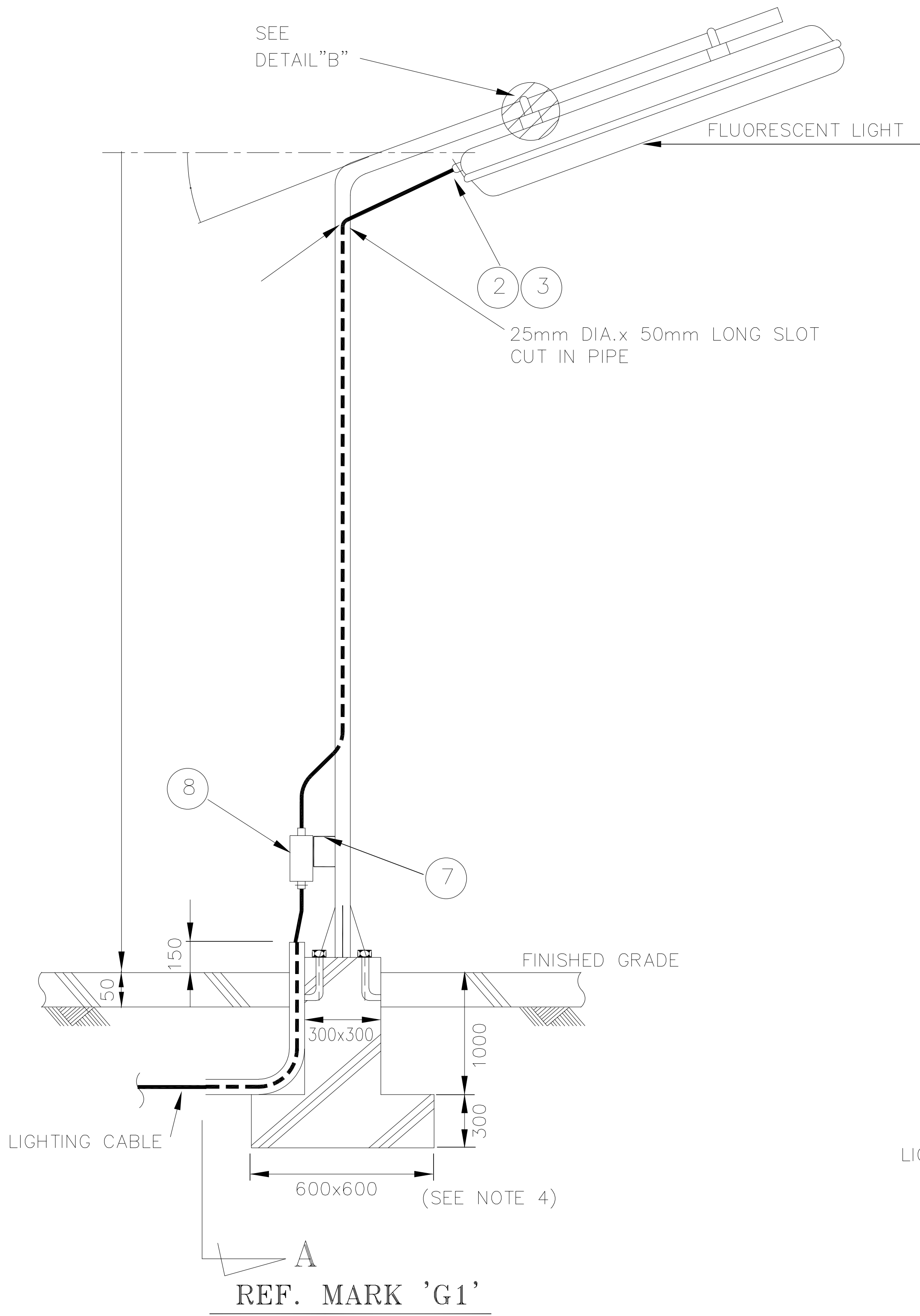


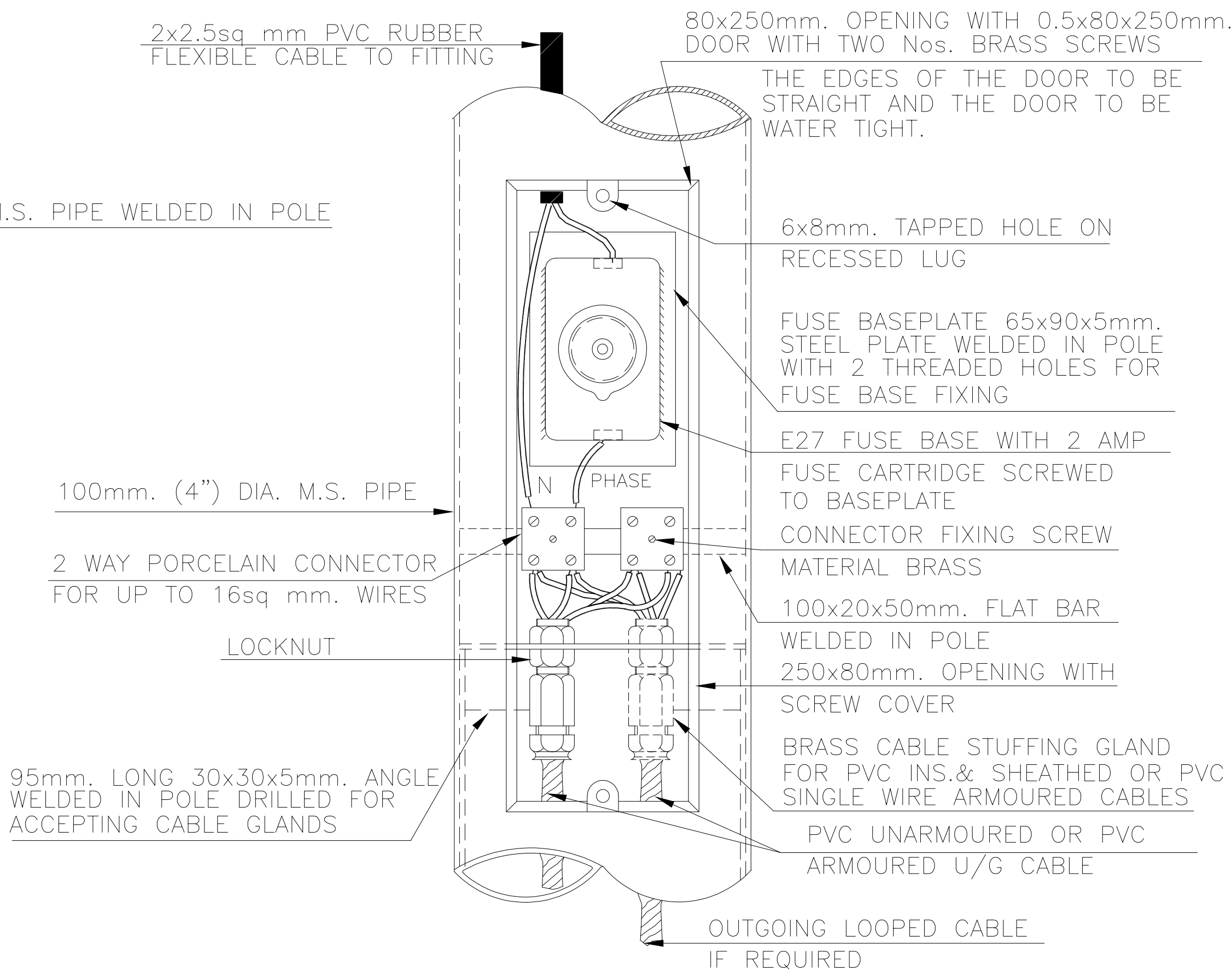
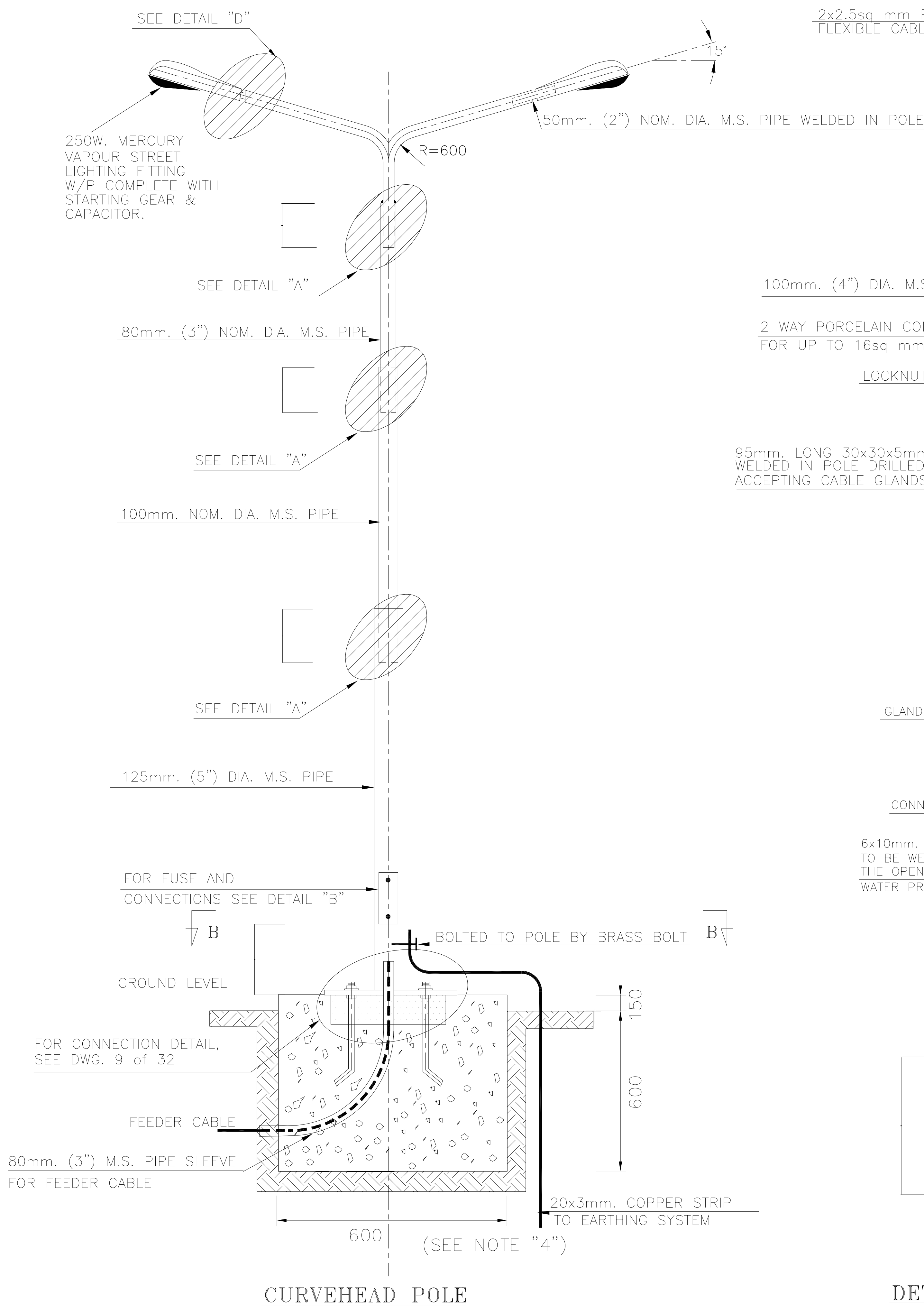
SECTION A-A

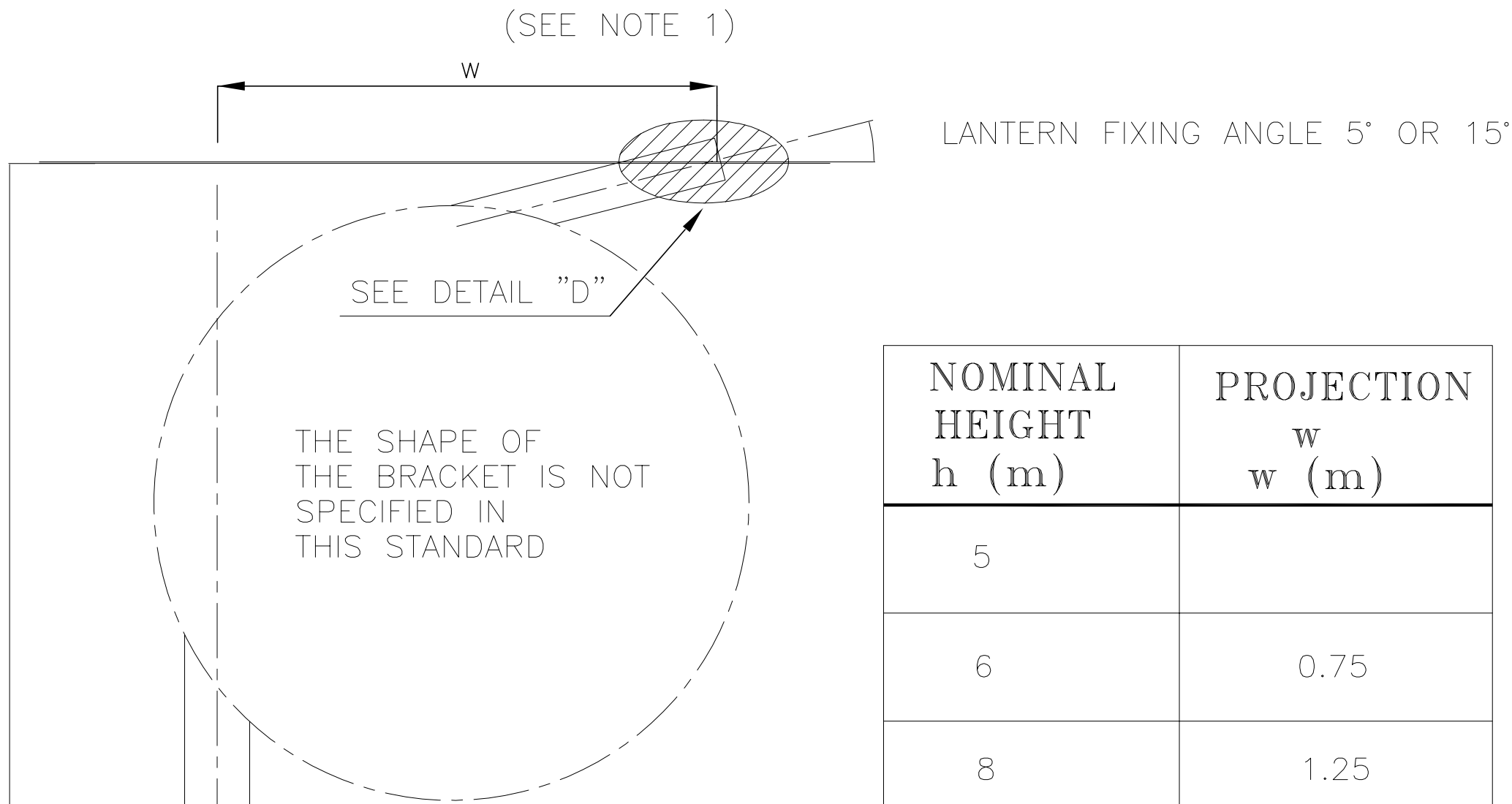
SECTION B-B

- 1- FOR TYPE OF LIGHTING FIXTURE, CABLE RUN, etc. SEE RELEVANT LIGHTING LAYOUT DRAWINGS.
- 2- FOR CONDUIT SUPPORT, REFER TO DWG. 24 of 32
- 3- TO BE WELDED TO EMBEDDED PLATE IN FIELD OR BOLTED WITH MASONRY ANCHOR.
- 4- FOR INSTALLATION OF JUNCTION BOX, REFER TO DWG. 25 of 32 & 26 of 32
- 5- ALL DIMENSIONS ARE IN MILLIMETERS

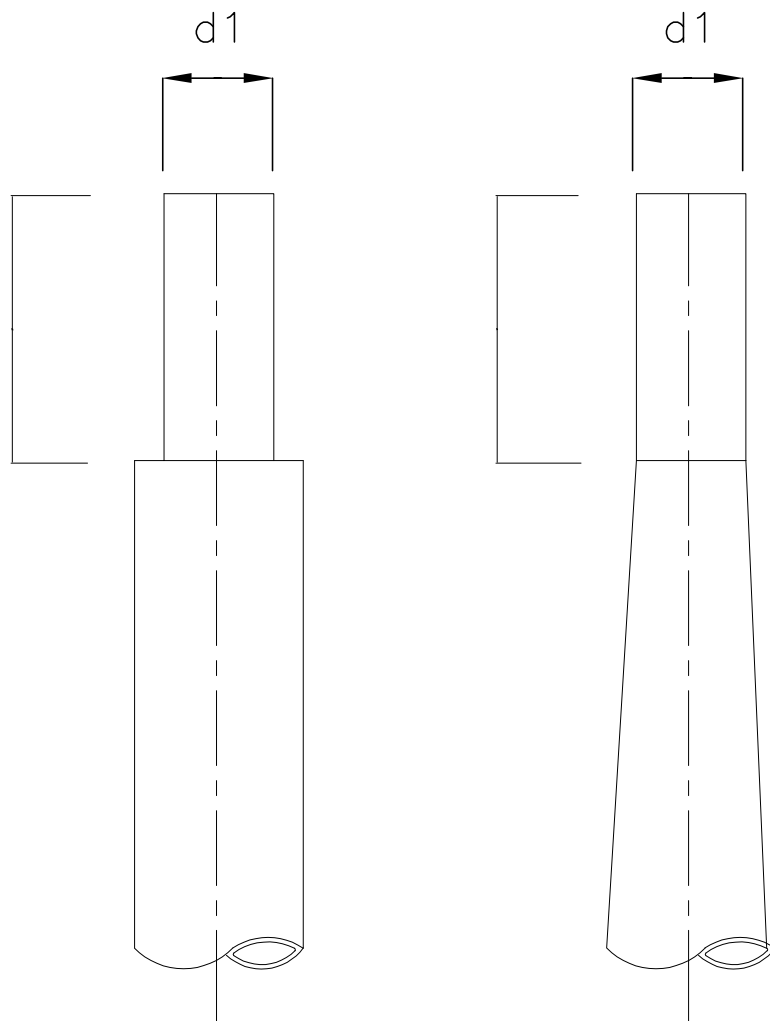
No.	DESCRIPTION	QTY.
1</		



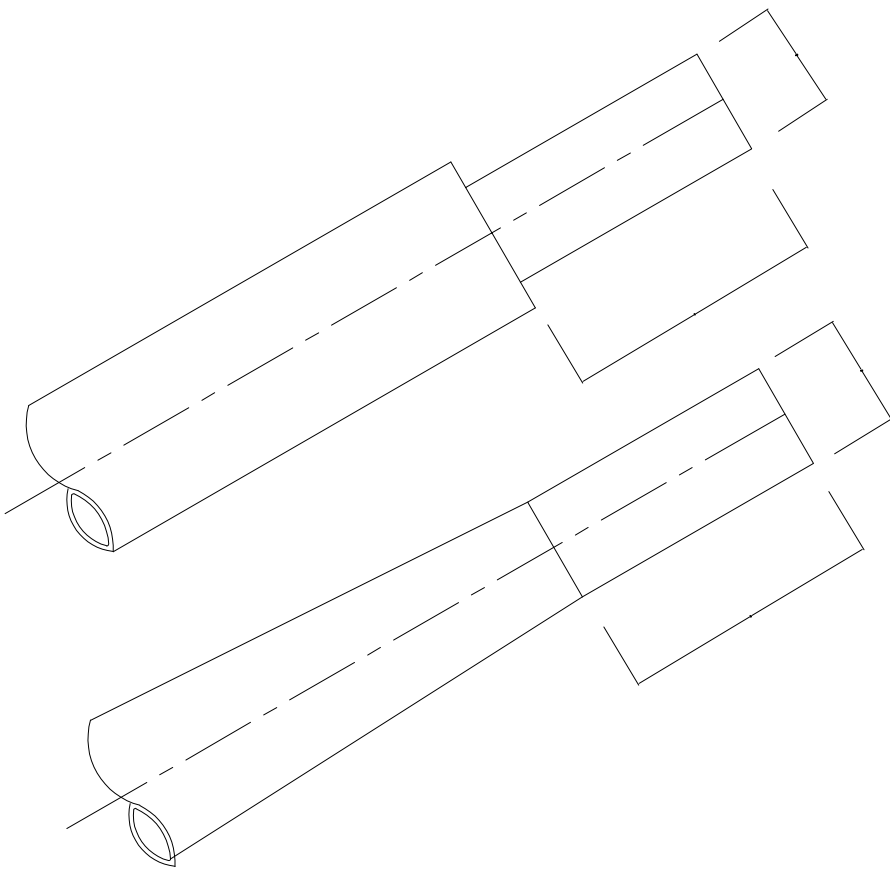
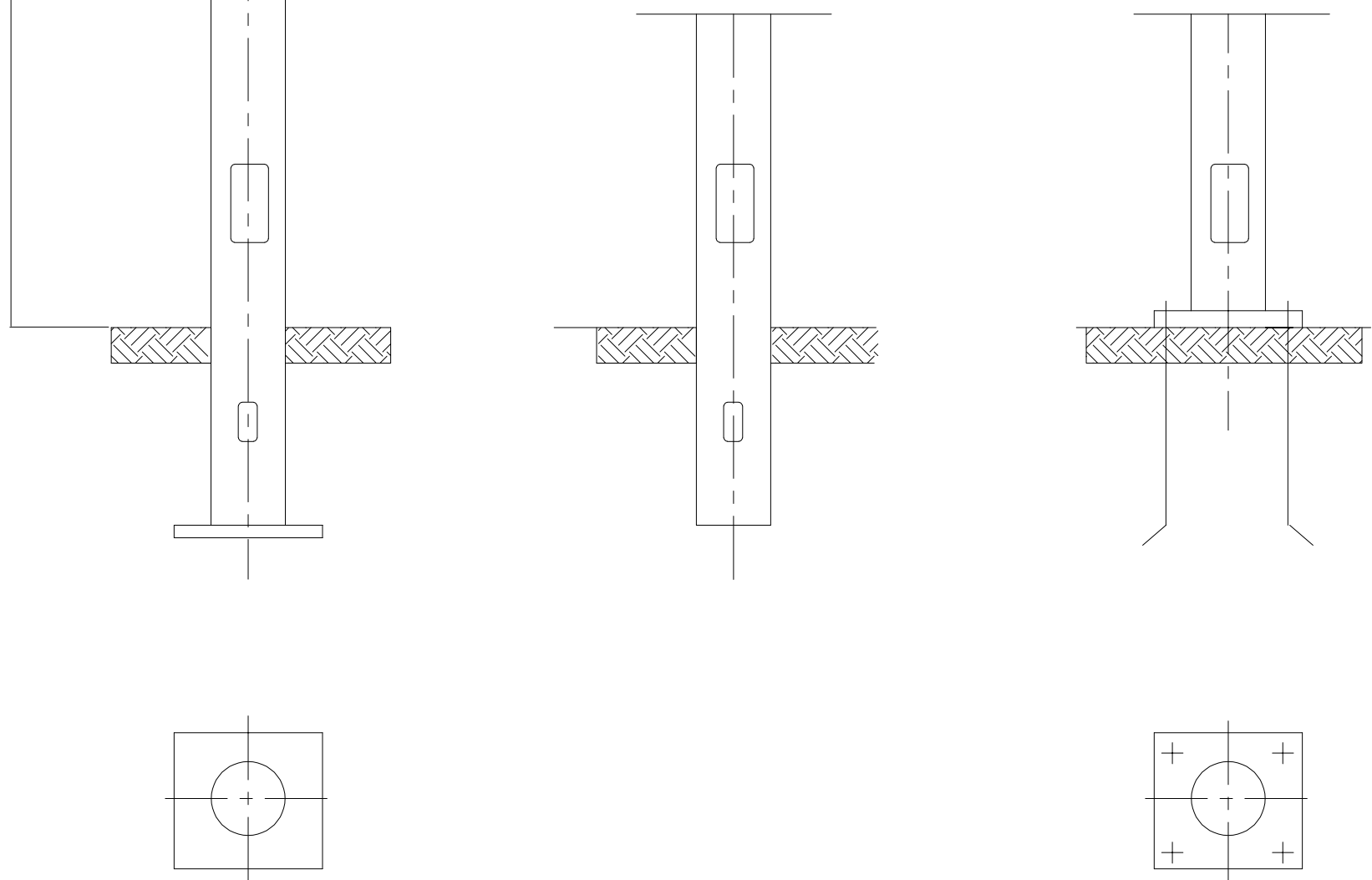




NOMINAL HEIGHT h (m)	PROJECTION w (m)
5	
6	0.75
8	1.25
10	2
12	3
15	
18	



d1	i1
60	70
76	130
102	250



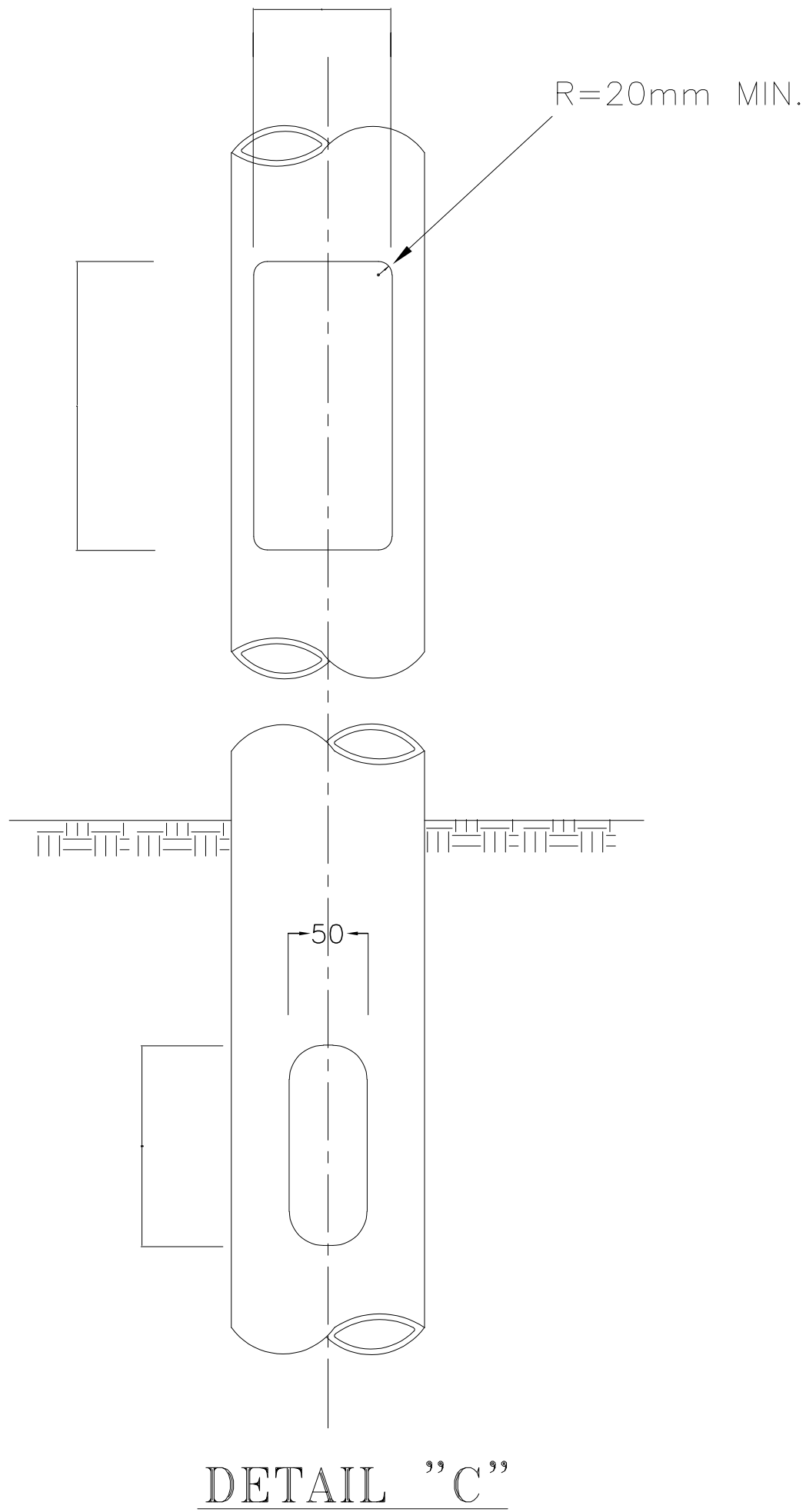
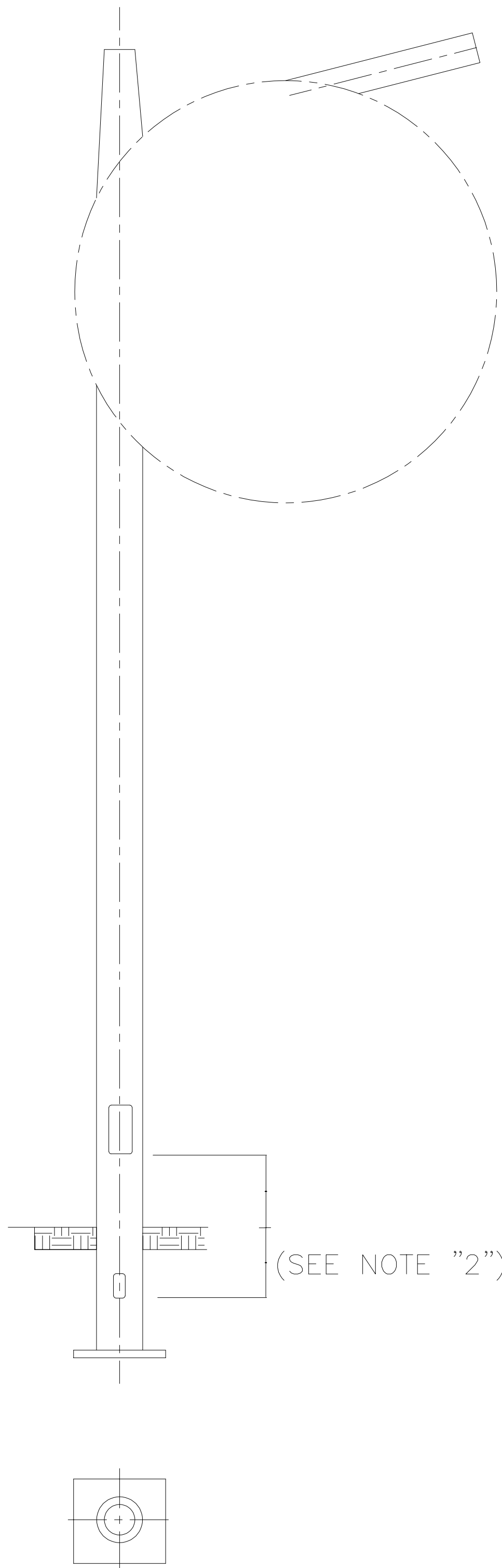
d2	i2
42	100
60	100 250

- 1- "W" TO BE EQUAL OR LESS THAN h/4
- 2- DIMENSIONS ARE IN MILLIMETERS OR METERS AS APPROPRIATE.

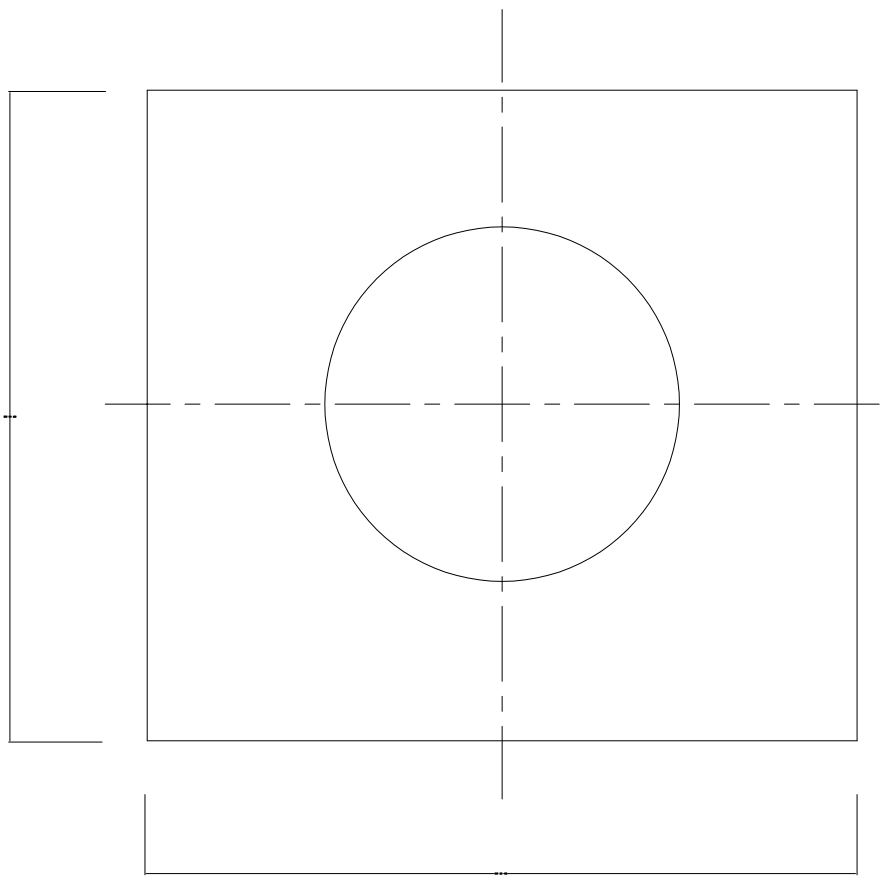
برای مناقصه:
FOR TENDER

مطالعات فاز یک:	PHASE 1 STUDY	☐
مطالعات فاز دو:	PHASE 2 STUDY	☐
برای تأیید:	FOR APPROVAL	☐
برای مناقصه:	FOR TENDER	☒
برای اجرا:	FOR CONSTRUCTION	☐

01	1404/08/17	ISSUED FOR COMMENT	E.GROP	LOUSHAD SULTANOV	
00	1404/07/02	ISSUED FOR COMMENT	E.GROP	LOUSHAD SULTANOV	
REV.	DATE	DESCRIPTION	PREP.	CHK.	APPR.
CLIENT:		کارفرما:	شرکت آسیای آرام		
CONSULTANT ENGINEERS:		مهندسین مشاور:	مهندسین مشاور تدبیر ساحل پارسی		
PROJECT TITLE:		مهندسین مشاور:	مطالعات و طراحی سازه دئین هپاری		
DRAWING TITLE:		مهندسین مشاور:	DETAIL		
DOCUMENT NO.		مقیاس نقشه:	SC.	ابعاد نقشه:	SIZE: A1
PROJECT NO:	PHASE:	شماره پروژه:	DISCIP:	نوع مدرک:	شماره مدرک:
2910	ED	2910	EL	DWG	001
SHEET NO.		ویرایش:	REV.	شماره نقشه:	SHEET NO.
10 / 54		01			



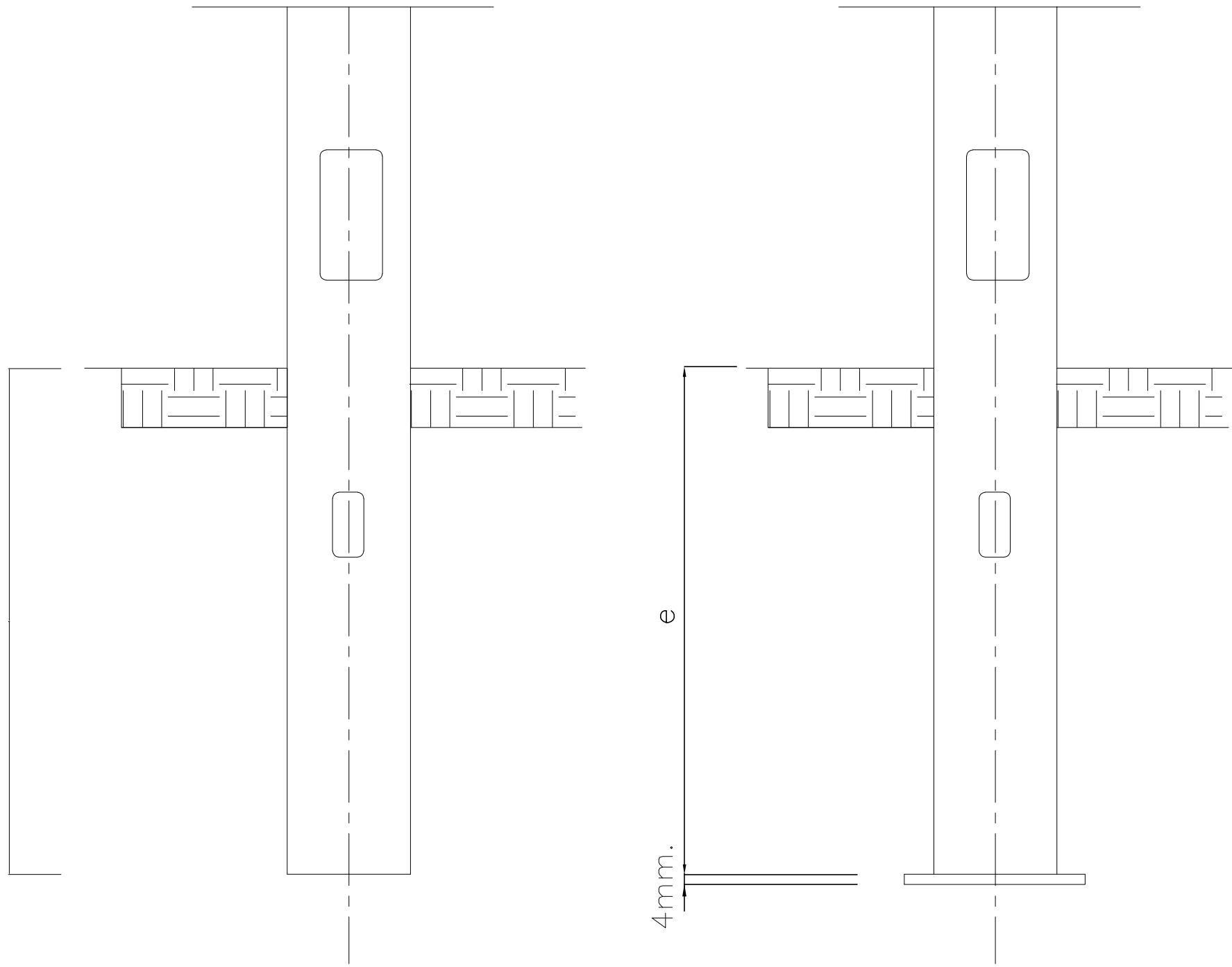
a (mm)	b (mm)
200	75
300	85
400	100
500	100
500	120
600	115
600	130



- 1- DIMENSIONS ARE IN MILLIMETERS OR METERS AS APPROPRIATE.
- 2- DIMENSION "e" TO BE APPROXIMATELY 600mm BUT IN NO CASE IT SHALL BE LESS THAN 300mm. NO MAXIMUM IS SPECIFIED.
- 3- THE DOOR OPENING SHALL BE POSITIONED PARALLEL TO THE BRACKET ON THE SIDE AWAY FROM THE DIRECTION OF TRAFFIC.
- 4- THE PLANTING DEPTH "e" SHALL BE SELECTED FROM THE VALUES GIVEN IN THE TABLE 1.

TABLE 1

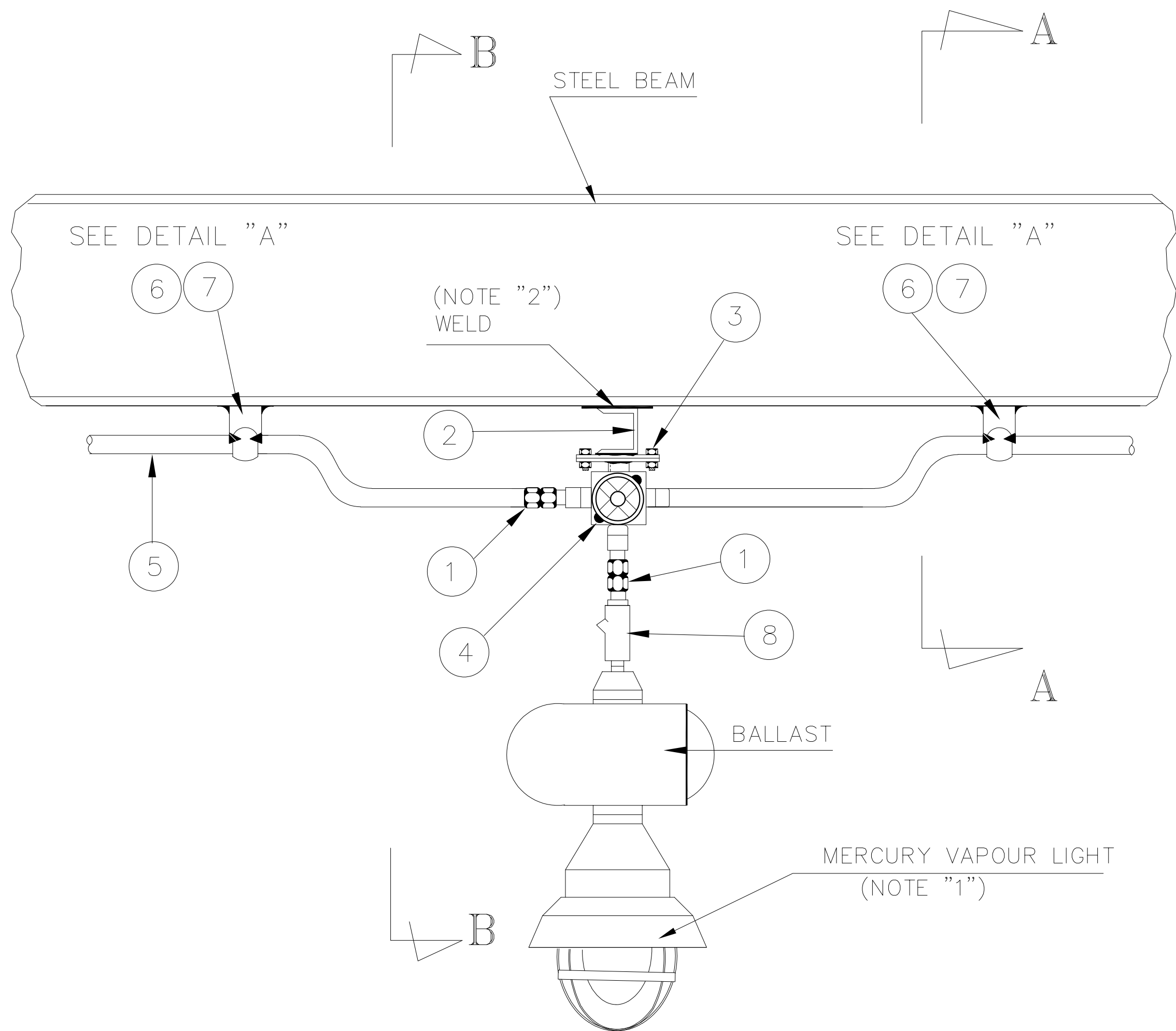
NOMINAL HEIGHT	PLANTING DEPTH		
h (m)	e (SEE NOTE 2) (mm)		
≤5	600	800	1000
6	800	1000	1200
8	1000	1200	1500
10	1200	1500	1700
12	1500	1700	2000
15	1500	2000	2500
18	1500	2000	—
20	1800	—	—



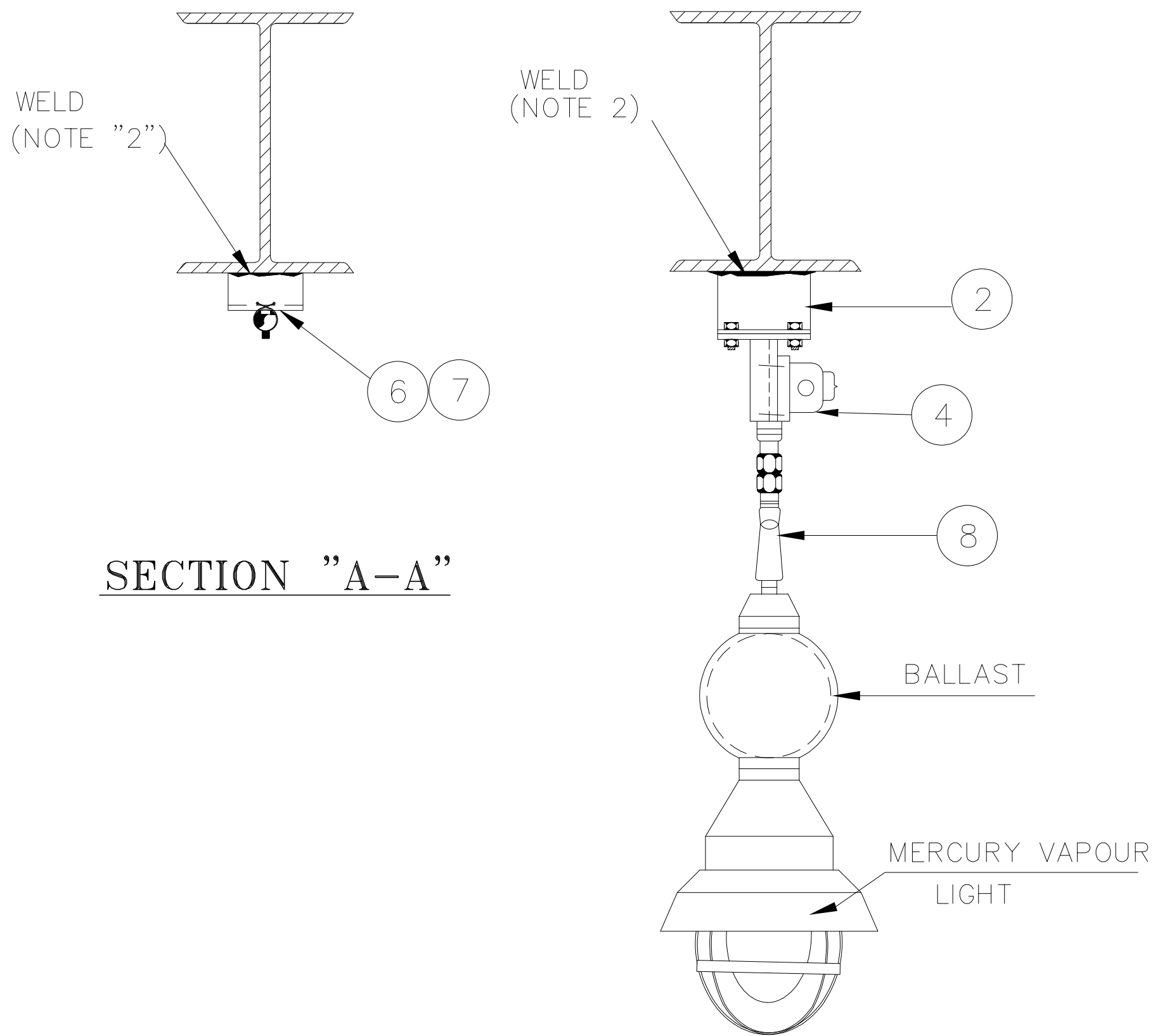
برای مناقصه:
FOR TENDER

مطالعات فاز یک:	☐
PHASE 1 STUDY	
مطالعات فاز دو:	☐
PHASE 2 STUDY	
برای تأیید:	☐
FOR APPROVAL	
برای مناقصه:	☒
FOR TENDER	
برای اجرا:	☐
FOR CONSTRUCTION	

01	1404/08/17	ISSUED FOR COMMENT	E.GROP	LOGO	SUBMIT
00	1404/07/02	ISSUED FOR COMMENT	E.GROP	LOGO	SUBMIT
REV.	DATE	DESCRIPTION	PREP.	CHK.	APPR.
CLIENT: کارفرما: شرکت آسیای آرام					
CONSULTANT ENGINEERS: مهندسین مشاور: مهندسین مشاور ساحل پارسی					
PROJECT TITLE: عنوان پروژه: مطالعات و طراحی سازه دکلین مهاری					
DRAWING TITLE: عنوان نقشه: DETAIL					
DOCUMENT NO. SC. SIZE: A1					
PROJECT NO:	PHASE:	DISCIPLINE:	DOC. TYPE:	SERIAL NO.	REV.
2910	ED	EL	DWG	001	01
					11 / 54



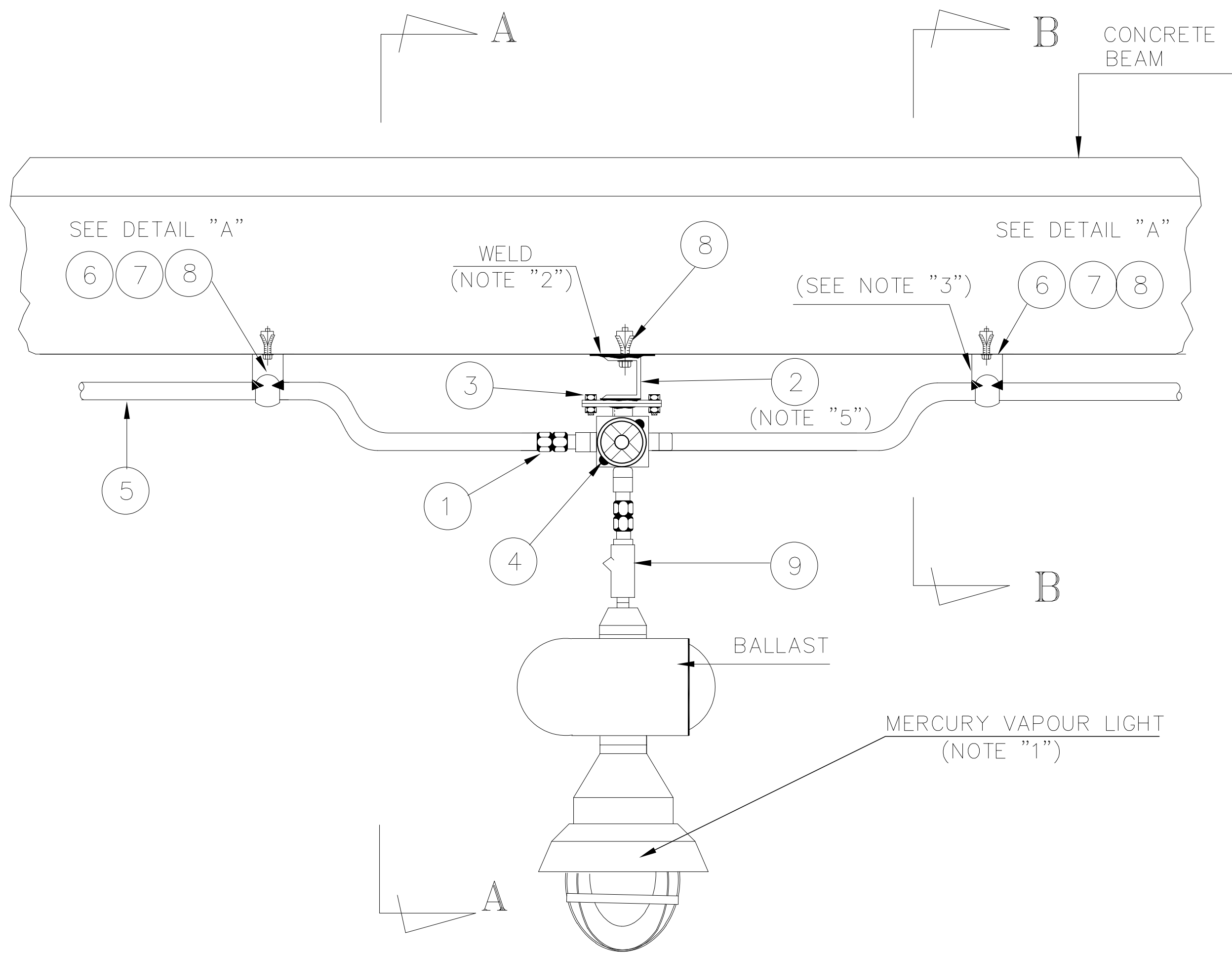
FRONT VIEW



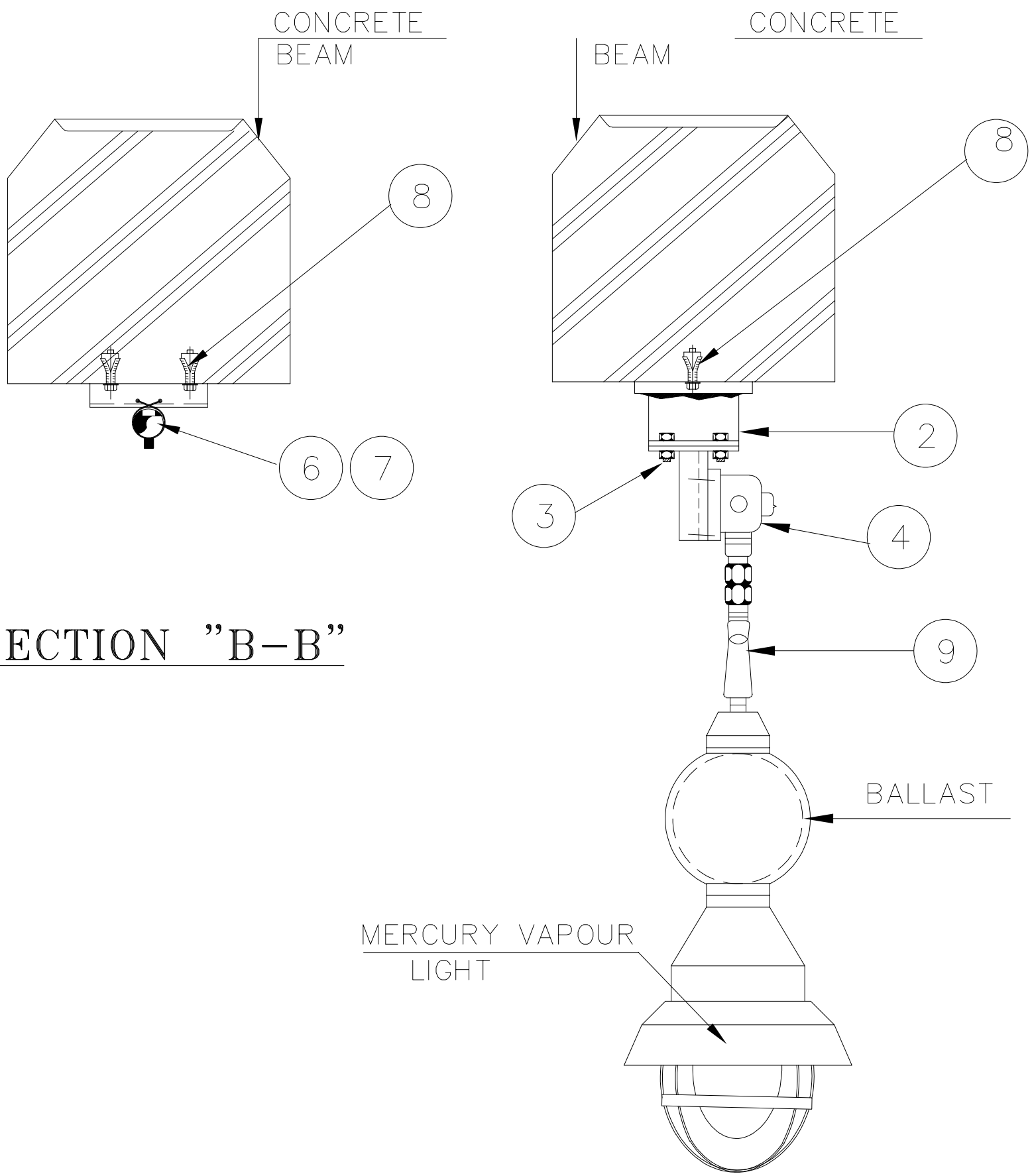
SECTION "B-B"

- 1- FOR TYPE OF LIGHTING FIXTURE, MOUNTING ELEVATION SEE RELEVANT LIGHTING LAYOUT DRAWINGS.
- 2- TO BE WELDED TO STEEL BEAM IN FIELD.
- 3- FOR INSTALLATION OF CONDUIT SUPPORT,REFER TO DWG. 24 of 32.
- 4- FOR INSTALLATION OF JUNCTION BOX,REFER TO DWG. 26 of 32.
- 5- ALL DIMENSIONS ARE IN MILLIM

- 1- FOR TYPE OF LIGHTING FIXTURE, MOUNTING ELEVATION.
SEE RELEVANT LIGHTING LAYOUT DRAWINGS.
- 2- TO BE WELDED TO EMBEDDED PLATE INFIELD OR FIXED WITH MASONRY ANCHOR.
- 3- FOR INSTALLATION OF CONDUIT SUPPORT, REFER TO DWG. 24 of 32
- 4- FOR INSTALLATION OF JUNCTION BOX, REFER TO DWG. 26 of 32
- 5- THE LIGHTING FIXTURE MAY BE MOUNTED DIRECTLY TO THE CONCRETE BEAM WITHOUT SUPPORT.
- 6- ALL DIMENSIONS ARE IN MILLIMETERS.

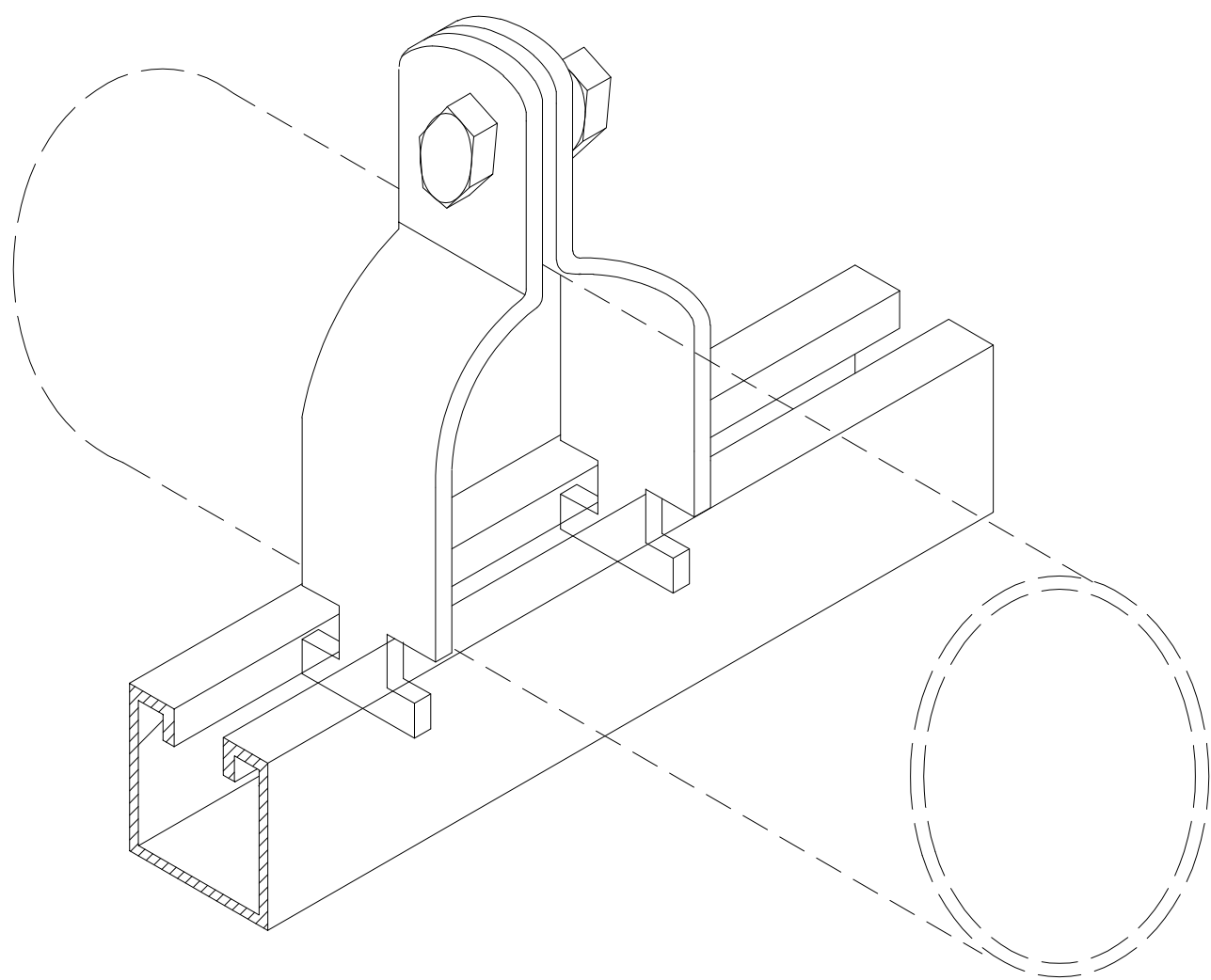
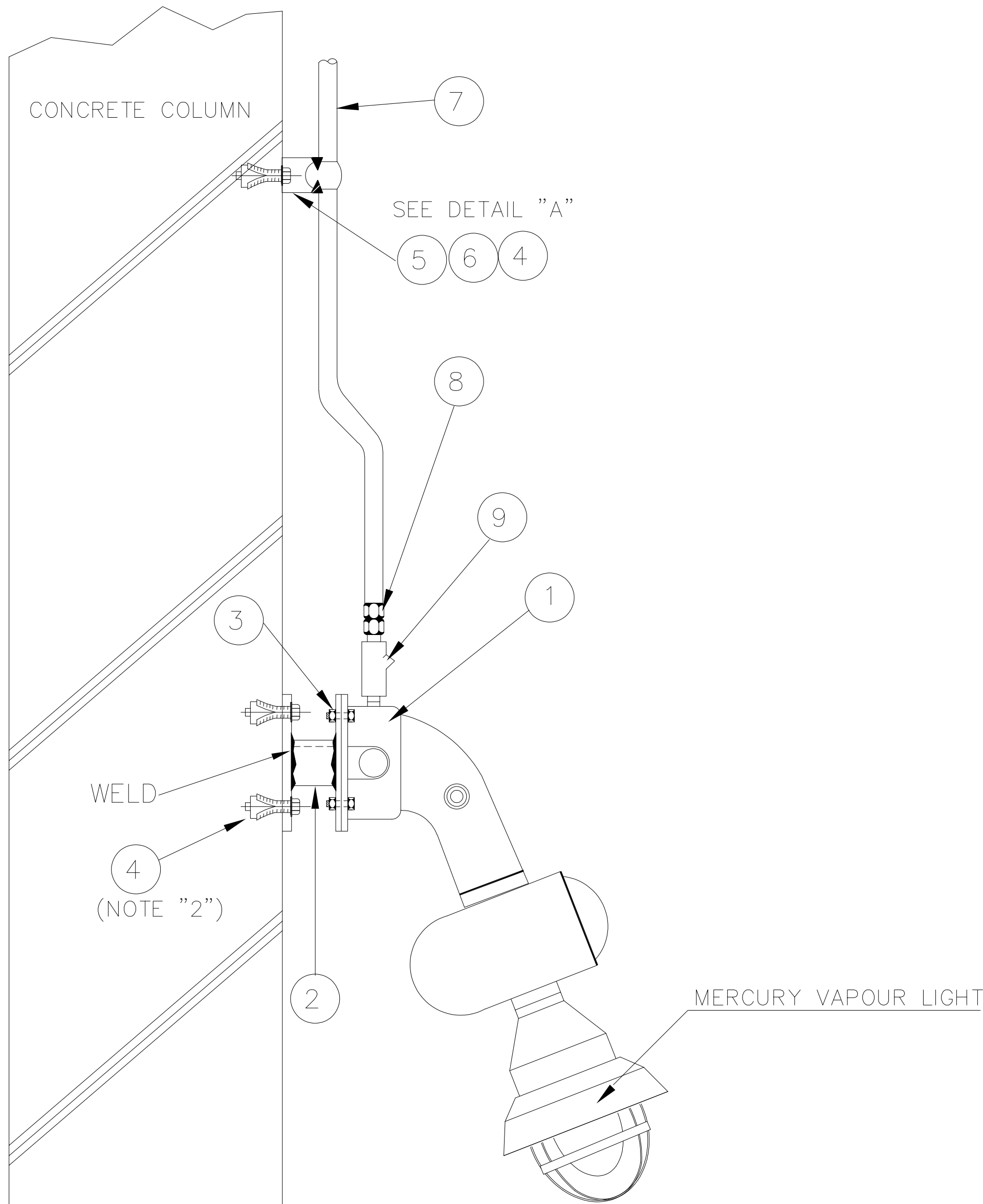


FRONT VIEW

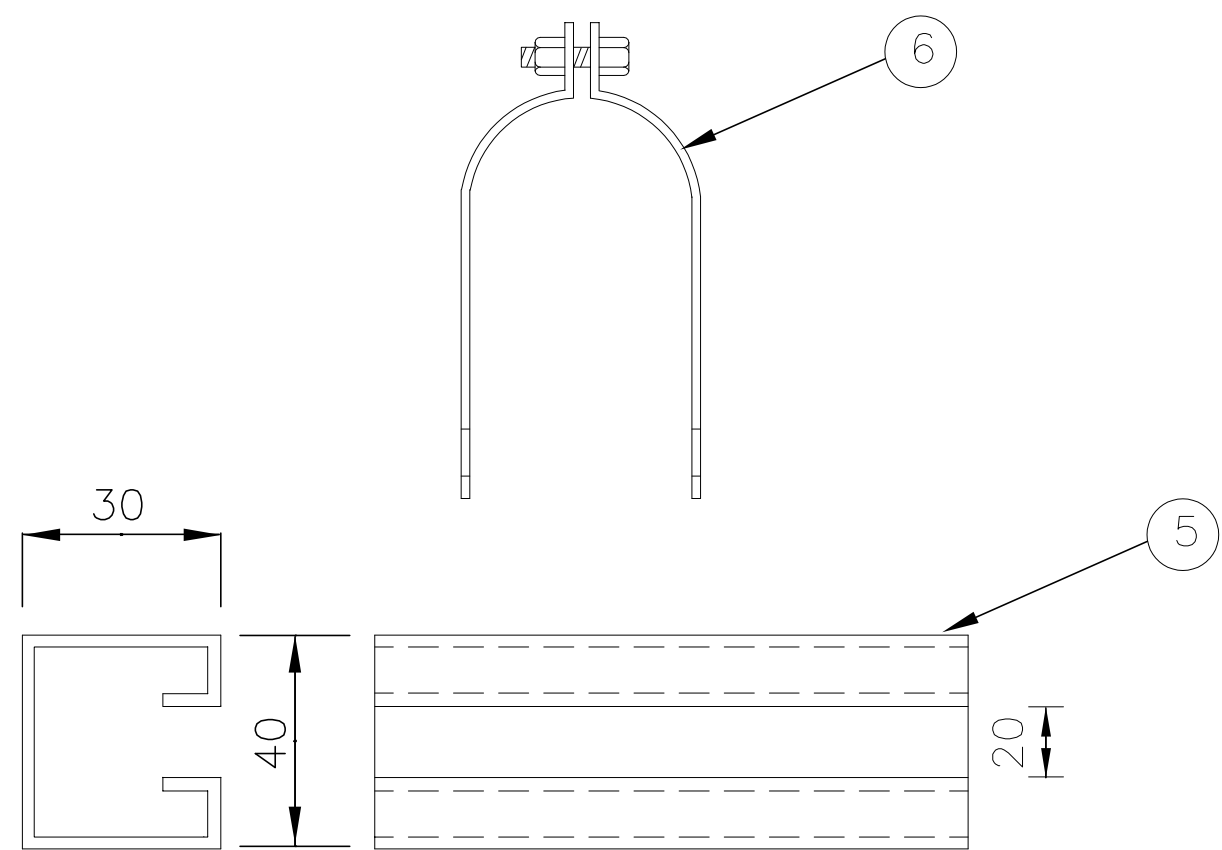


- 1- FOR TYPE OF LIGHTING FIXTURE, MOUNTING ELEVATION, etc.
SEE RELEVANT LIGHTING LAYOUT DRAWINGS.
2- TO BE WELDED TO EMBEDDED PLATE IN FIELD OR FIXED WITH MASONRY ANCHOR.
3- FOR SUPPORTING OF CONDUIT, REFER TO DWG. 24 of 32
4- FOR INSTALLATION OF JUNCTION BOX, REFER TO DWG. 26 of 32
5- THE LIGHTING FIXTURE MAY BE MOUNTED DIRECTLY TO THE CONCRETE BEAM WITHOUT SUPPORT.
6- ALL DIMENSIONS ARE IN MILLIMETERS.

No.	DESCRIPTION	QTY.
①	JUNCTION BOX	1-EA
②	JUNCTION BOX SUPPORT	1-EA
③	BOLT & NUT WITH 1-SPRING WASHER AND 2-FLAT WASHERS FOR FIXTURE	4-SETS
④	MASONRY ANCHOR	
⑤	UNISTRUT CHANNEL	
⑥	UNISTRUT CLAMP	
⑦	RIGID STEEL CONDUIT 20mm. DIA.	
⑧	UNION COUPLING	1-EA
⑨	SEALING FITTING	



ISOMETRIC VIEW OF
UNISTRUT CHANNEL & CLAMP

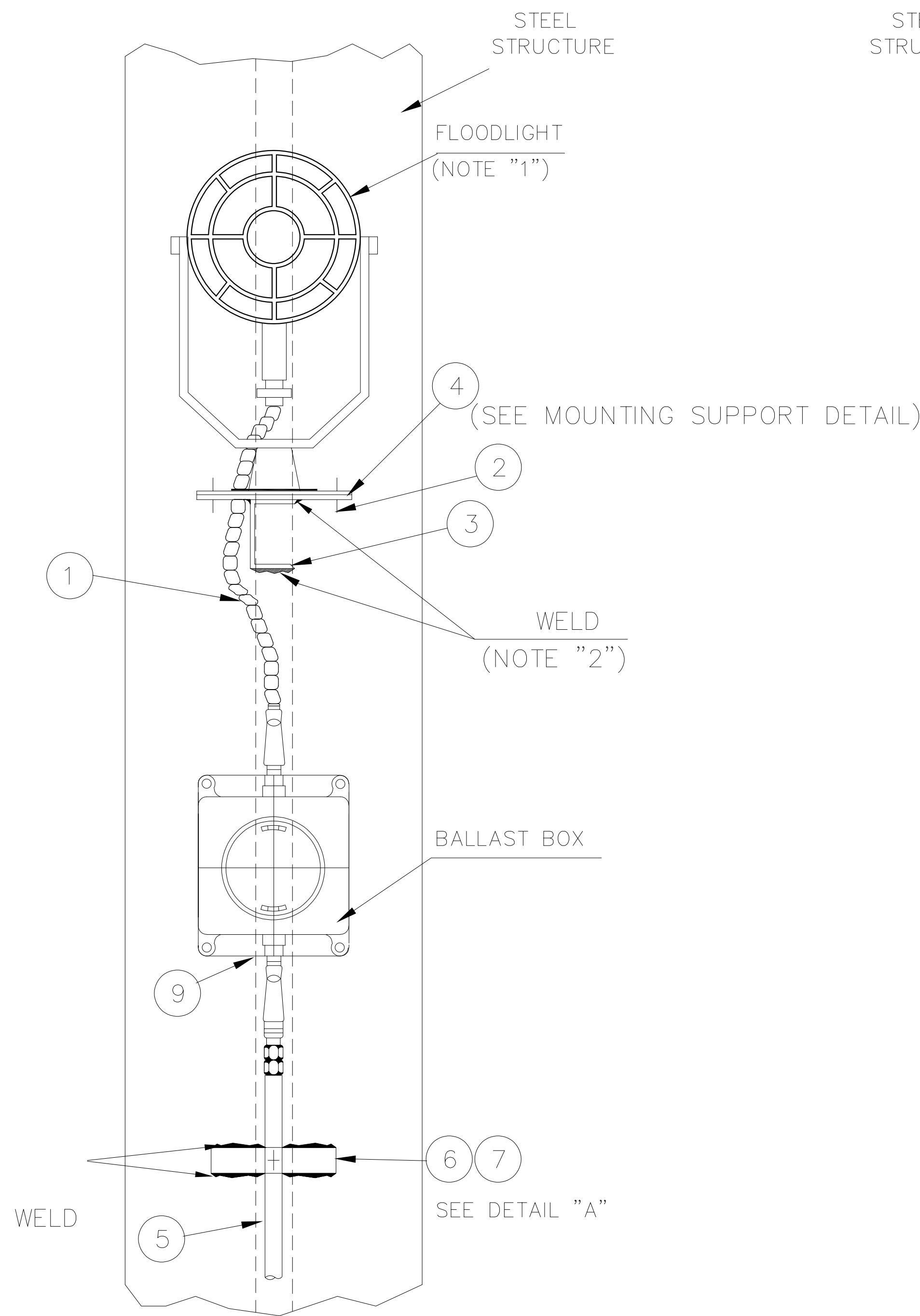


DETAIL "A"

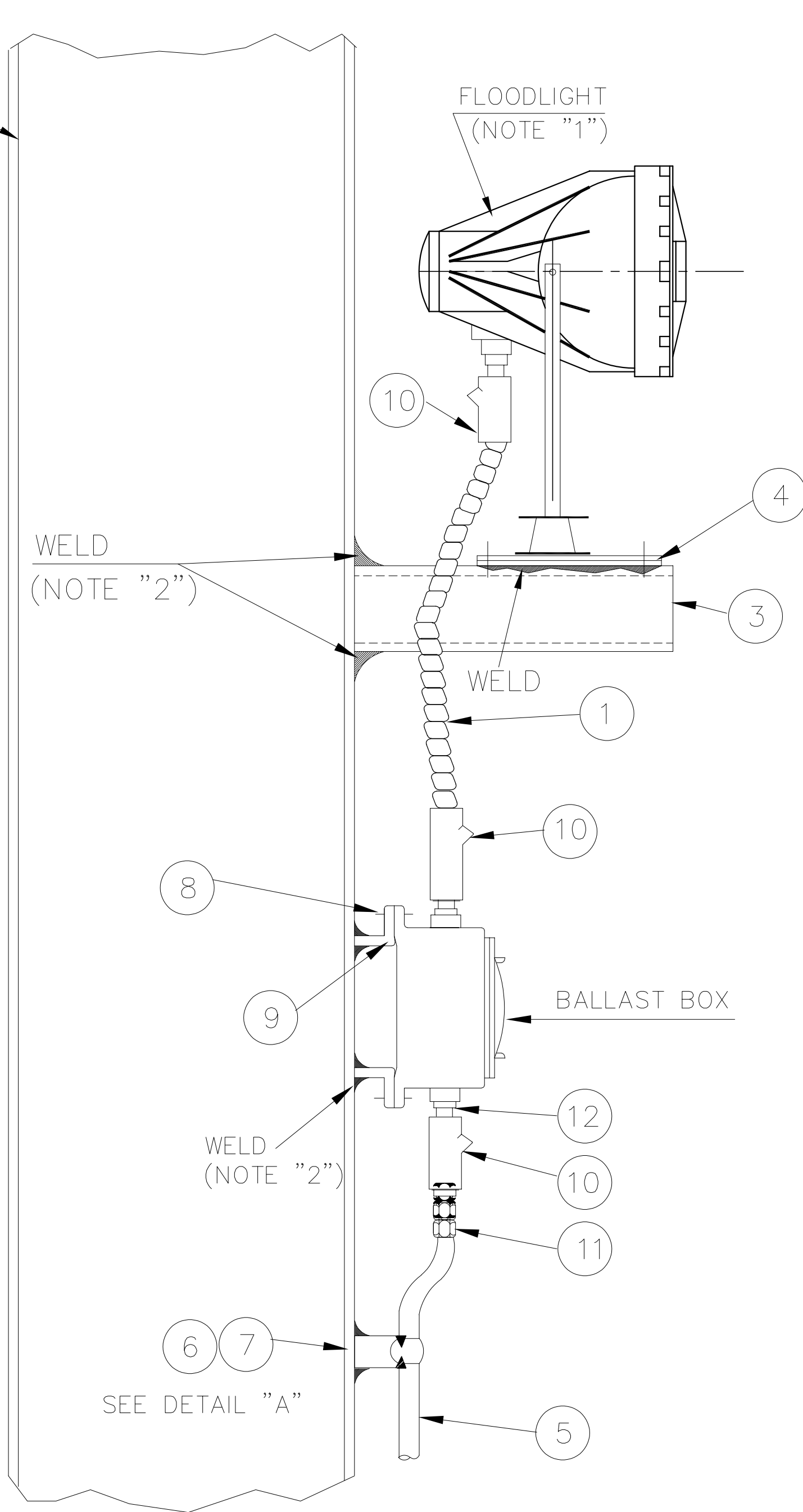
برای مناقصه:
FOR TENDER

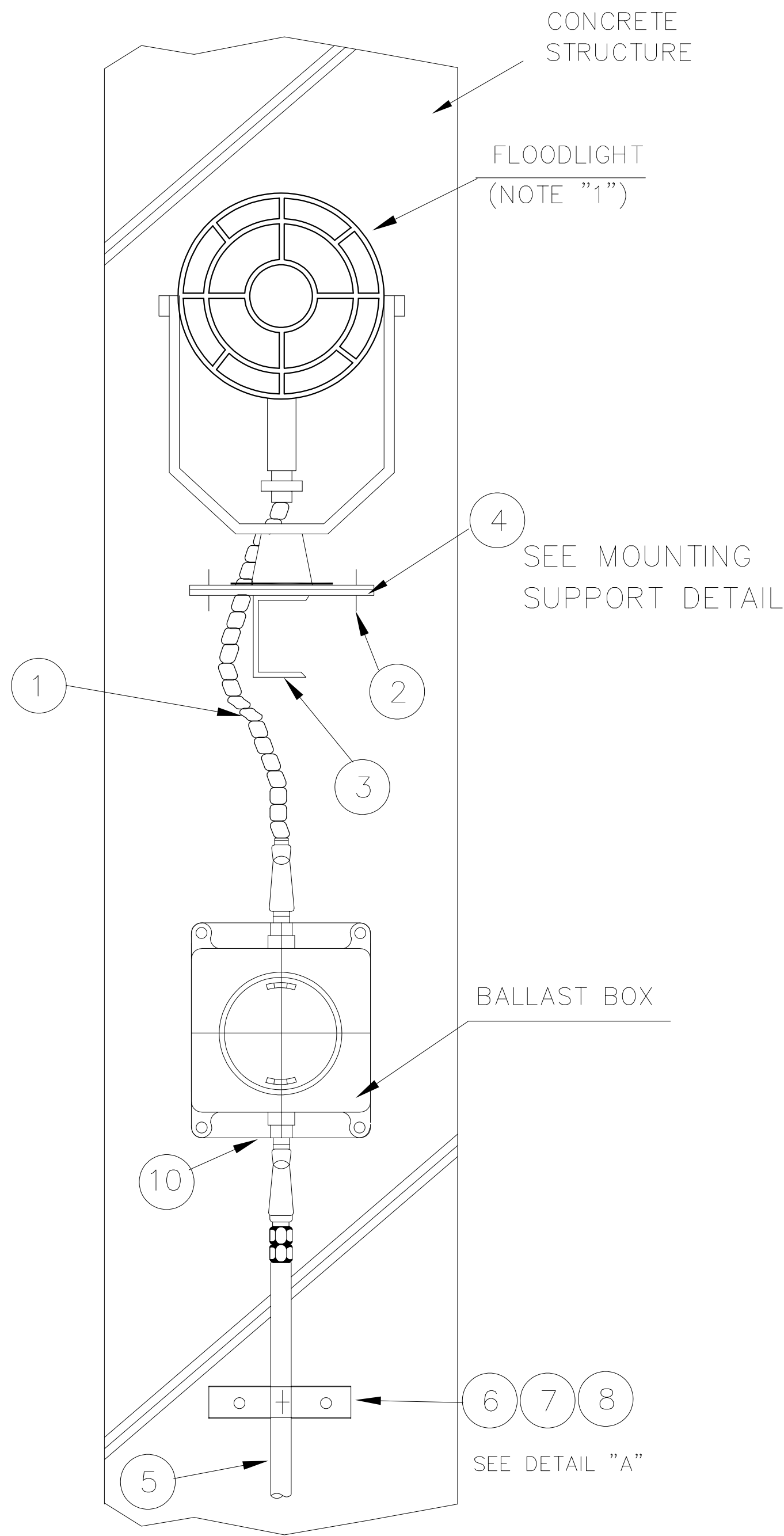
مطالعات فاز یک:	☐
PHASE 1 STUDY	
مطالعات فاز دو:	☐
PHASE 2 STUDY	
برای تأیید:	☐
FOR APPROVAL	
برای مناقصه:	☒
FOR TENDER	
برای اجرا:	☐
FOR CONSTRUCTION	

01	1404/08/17	ISSUED FOR COMMENT	E.GROP	ARGUS	SHABON
00	1404/07/02	ISSUED FOR COMMENT	E.GROP	ARGUS	SHABON
REV.	DATE	DESCRIPTION	PREP.	CHK.	APPR.
CLIENT:			کارفرما:		
شرکت آسپای آرام					
CONSULTANT ENGINEERS:			مهندسین مشاور:		
مهندسین مشاور تدبیر ساحل پارسی			تدبیر ساحل پارسی		
PROJECT TITLE:			موضوع پروژه:		
مطالعات و طراحی سازه دکلین مهاری					
DRAWING TITLE:			موضوع نقشه:		
DETAIL					
DOCUMENT NO.			مقیاس نقشه:		
SC.			SIZE: A1		
شماره نقشه:			ویرایش:		
PROJECT NO:			SHEET NO.		
2910			14 /54		
PHASE:			REV.		
ED			01		
DISCIP:			NO.		
EL			001		
DOC.TYPE:			REV.		
DWG			001		
NO.			REV.		
001			01		

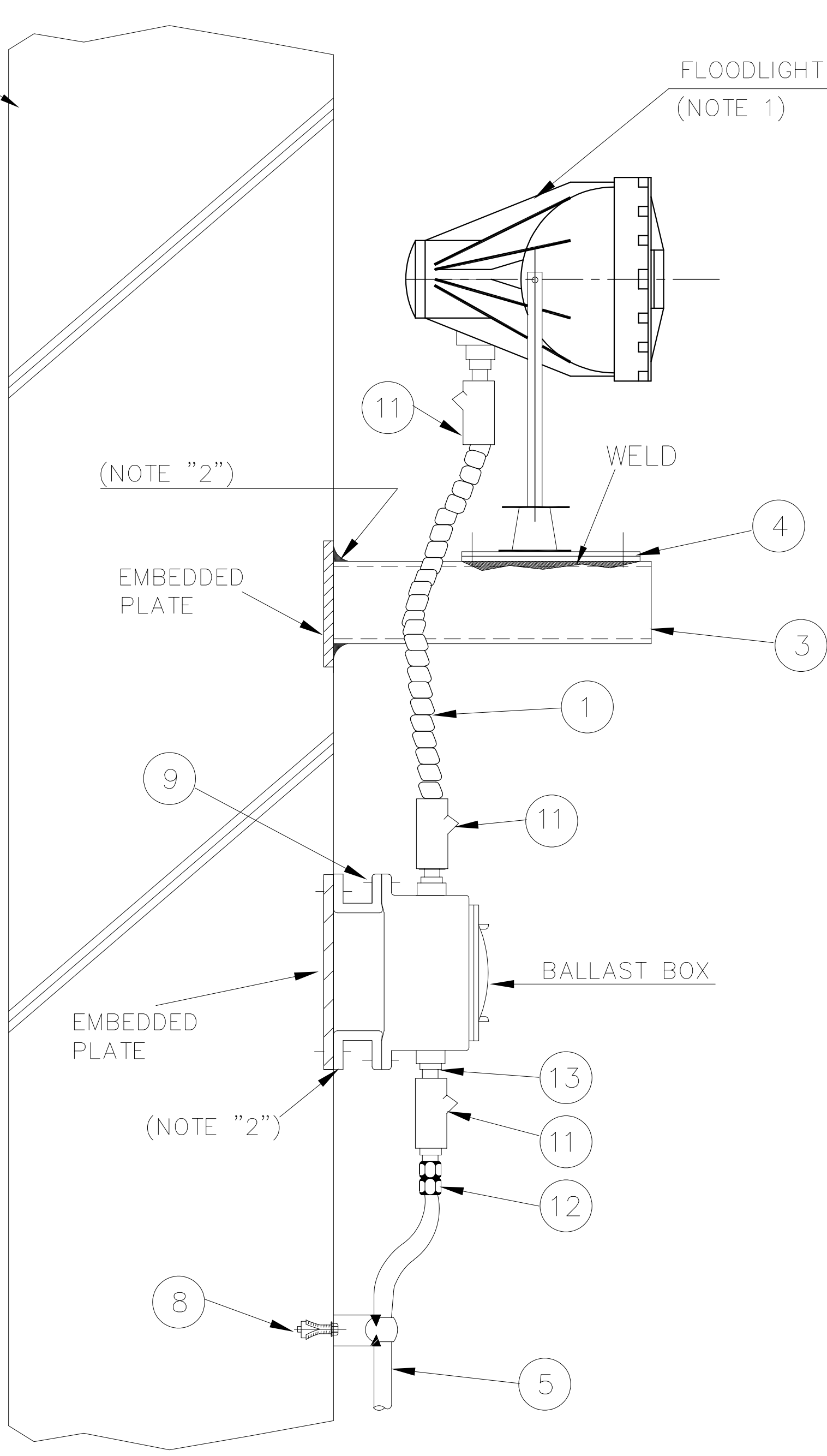


FRONT VIEW

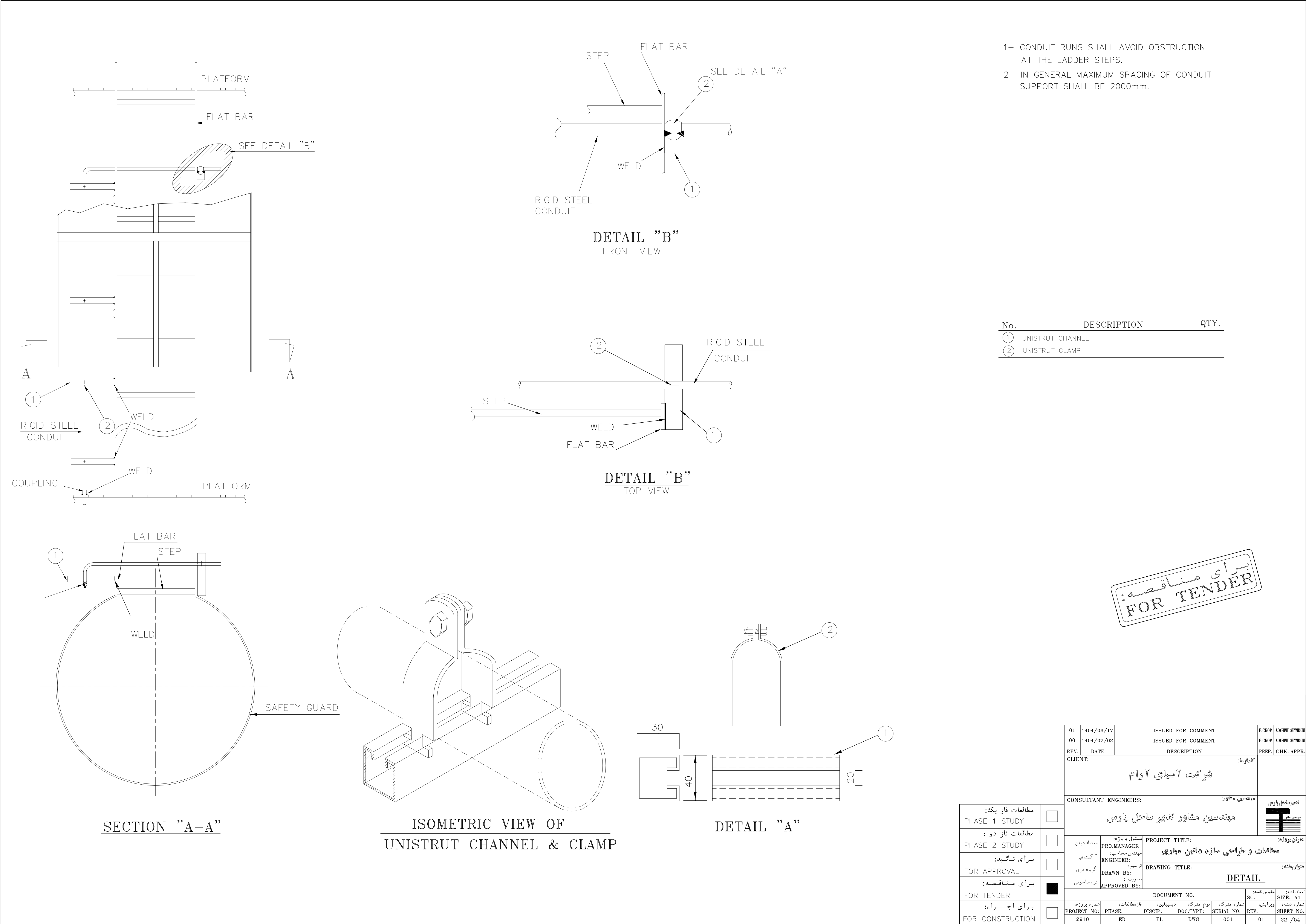




FRONT VIEW

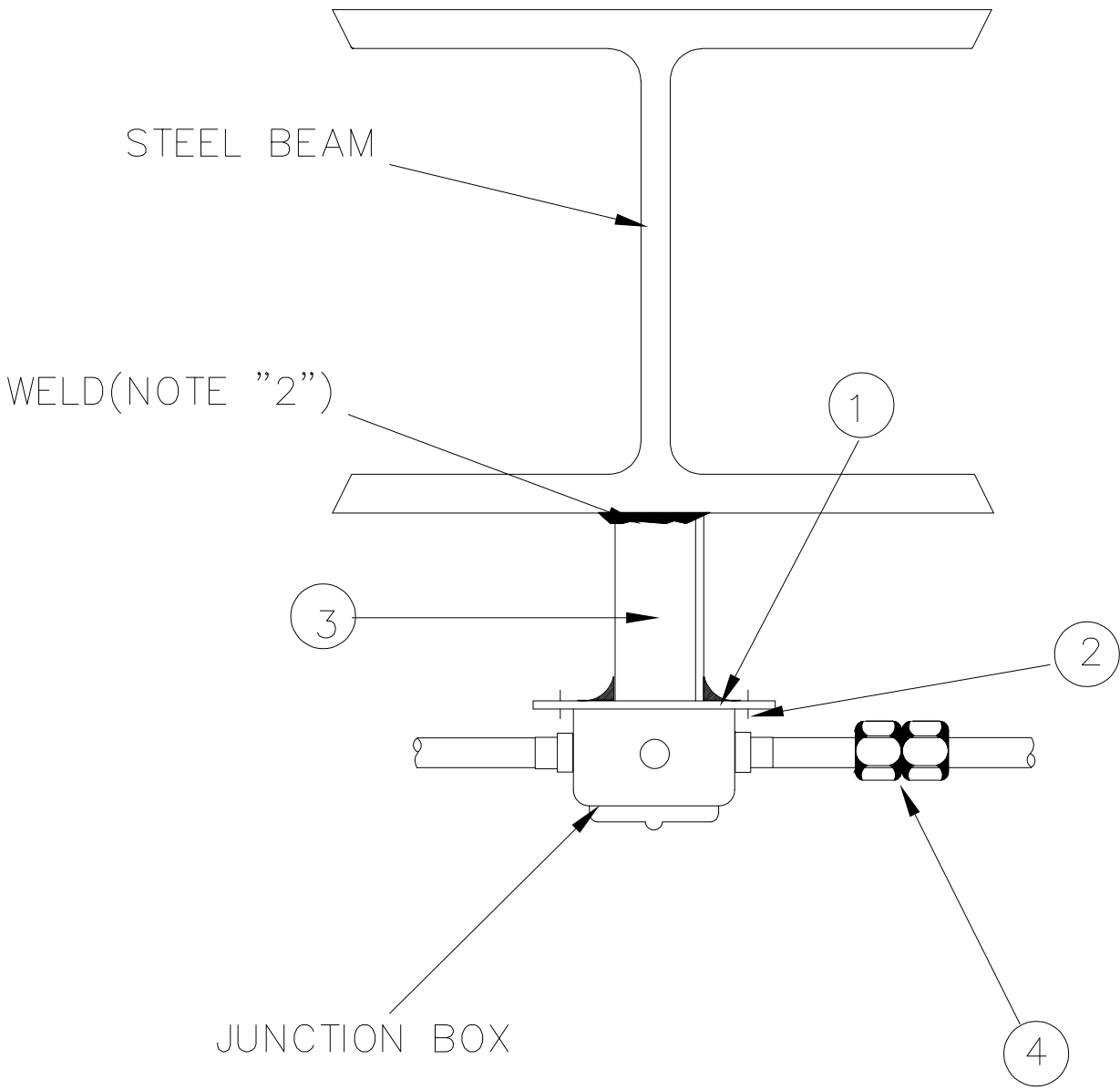


SIDE VIEW



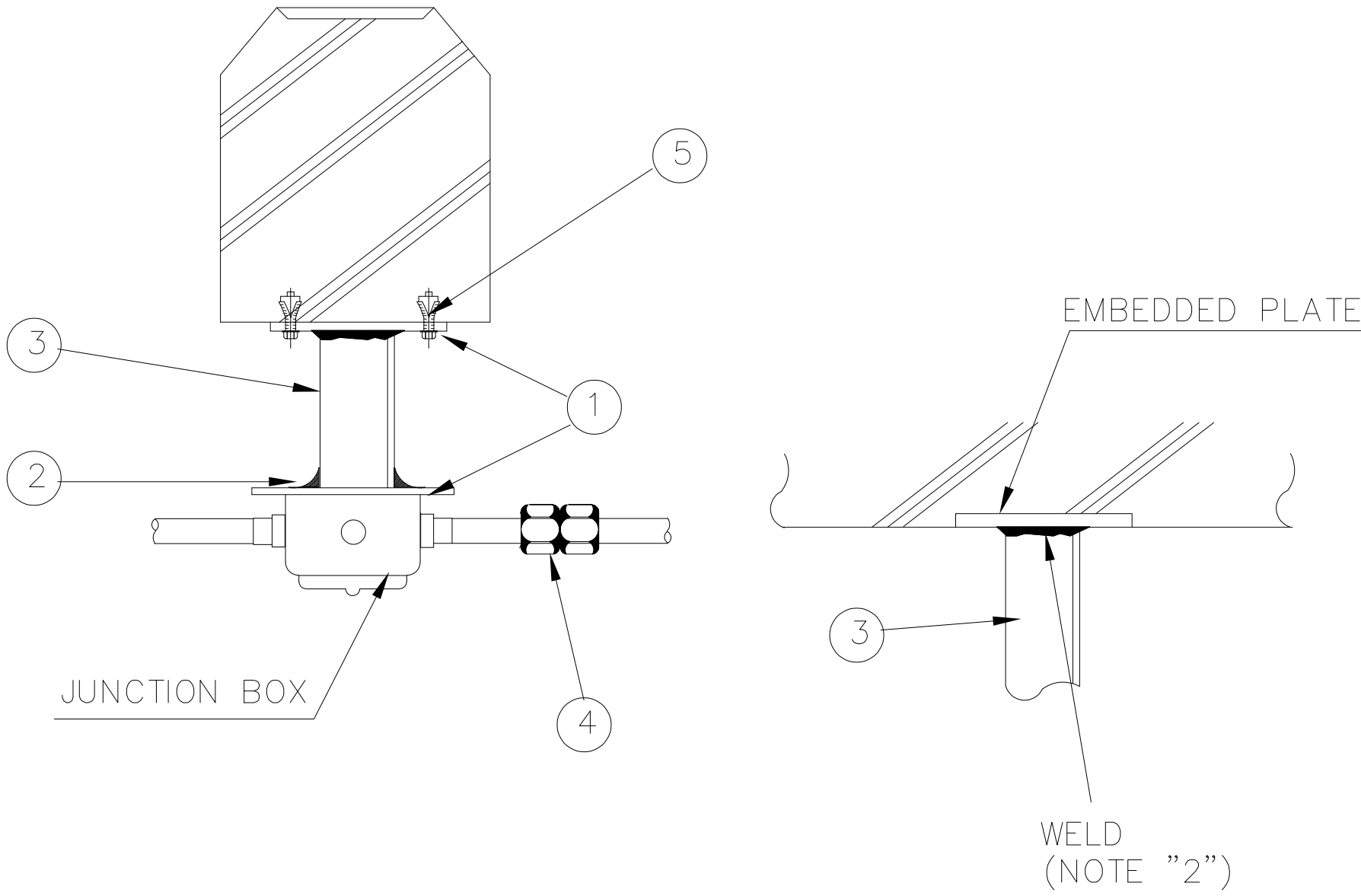
TYPE "E"

MOUNTED ON
STEEL BEAM

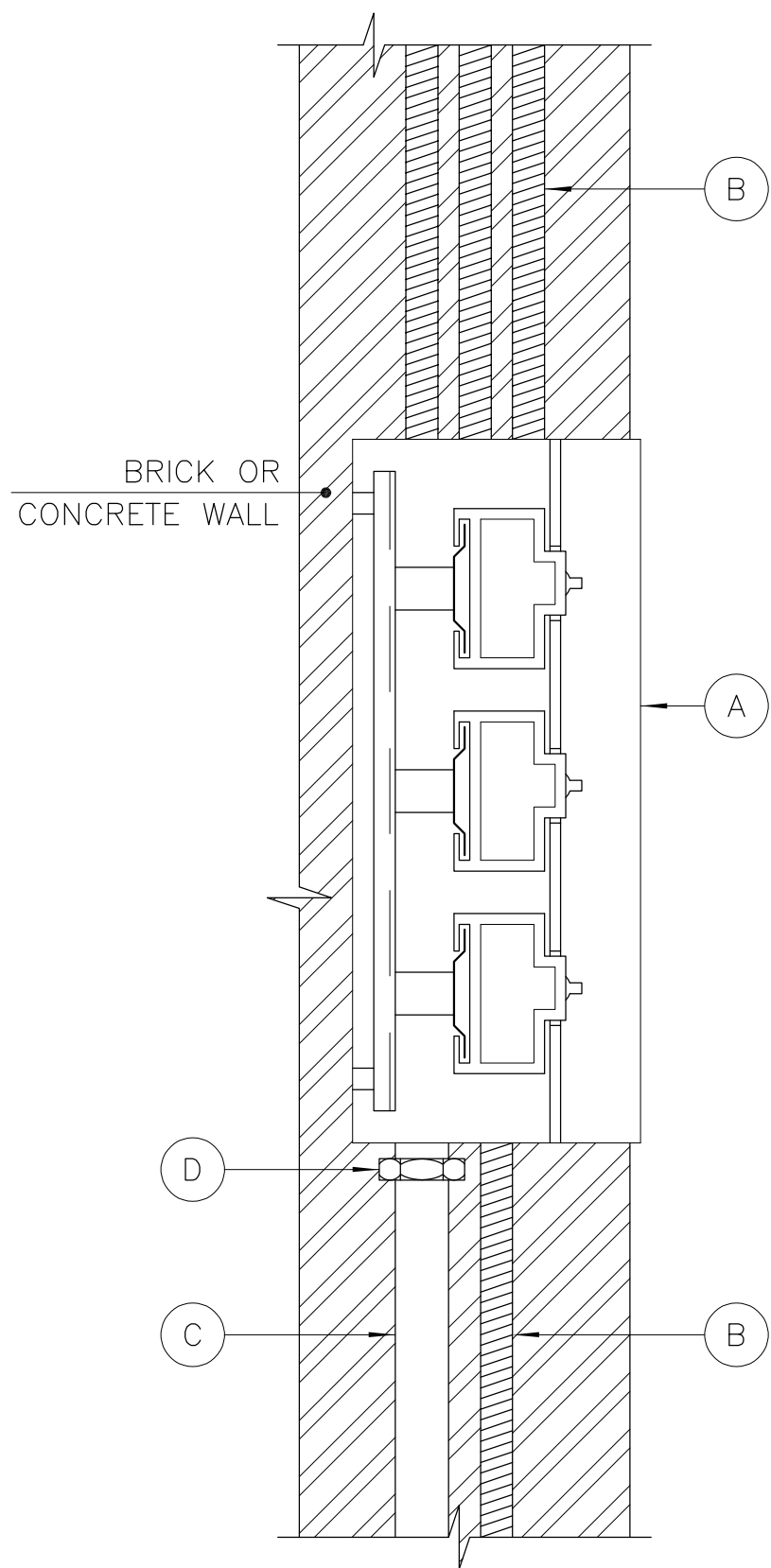
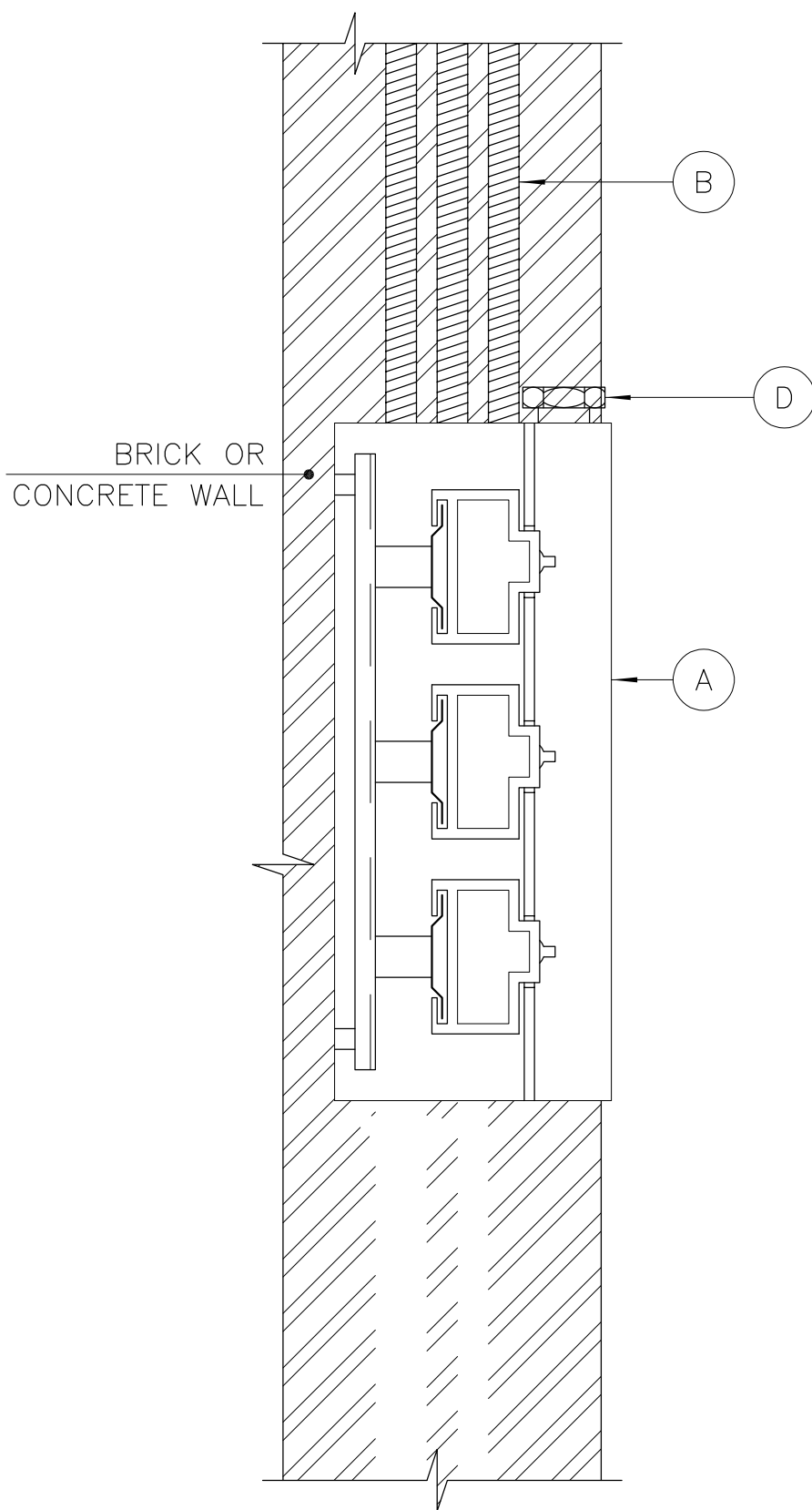


TYPE "F"

MOUNTED ON
CONCRETE



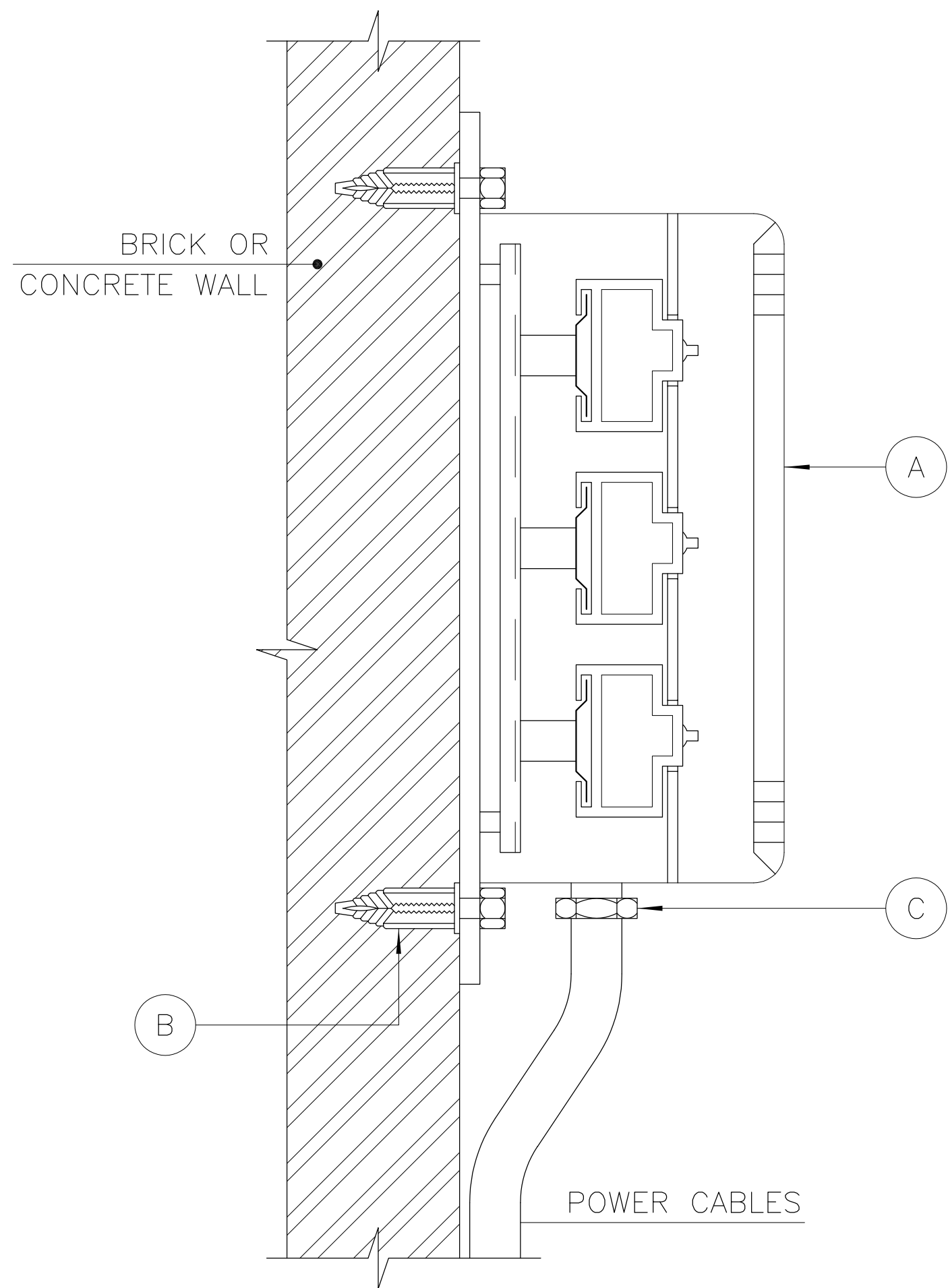
- 1- FOR JUNCTION BOX LOCATION, TYPE, etc.
SEE RELEVANT LIGHTING,LAYOUT DRAWINGS.
- 2- TO BE WELDED TO STEEL STRUCTURE AT
FIELD OR BOLTED WITH MASONRY ANCHOR.
- 3- ALL DIMENSIONS ARE



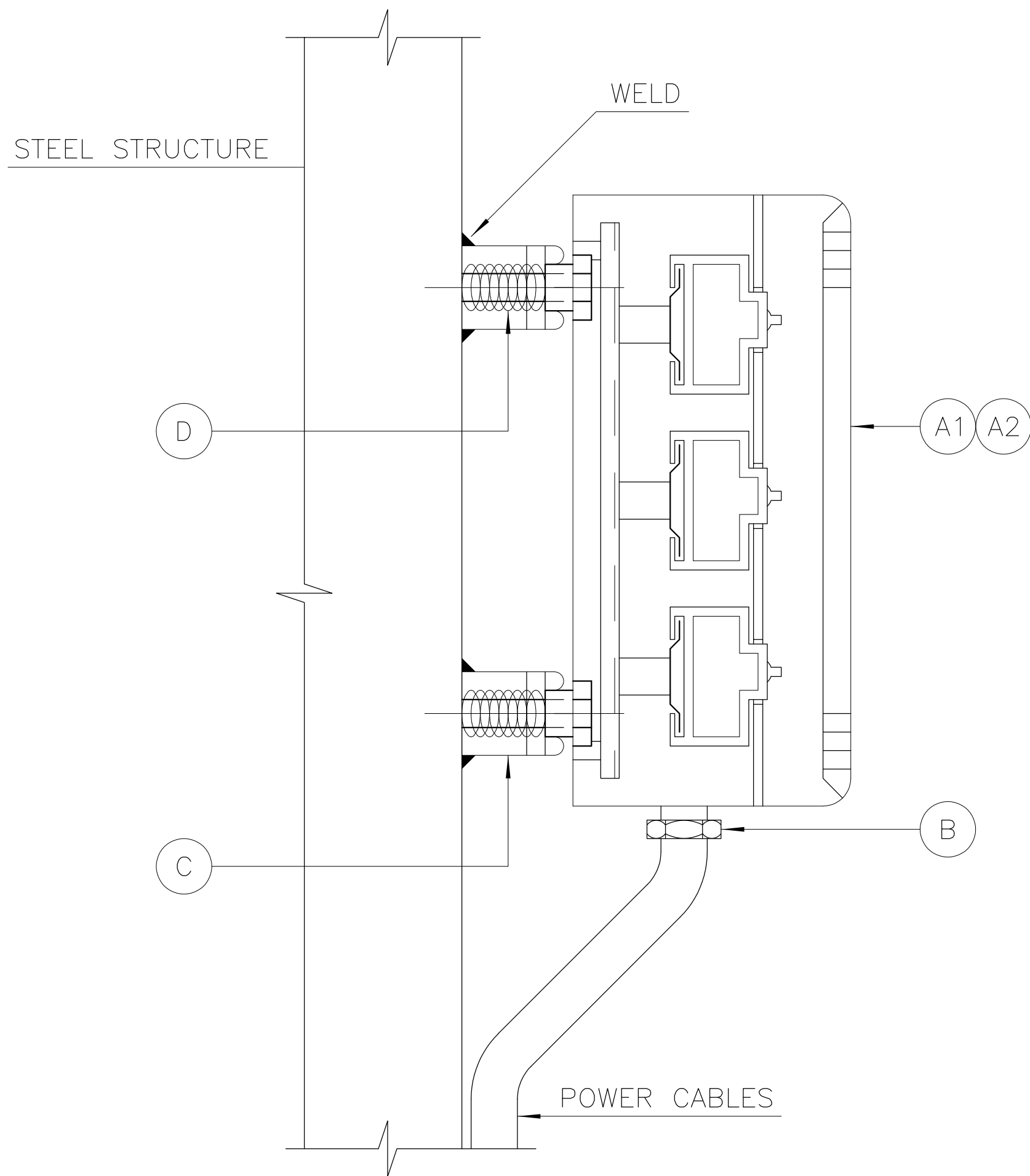
FLUSH MOUNTED LIGHTING PANEL

ITEM	DESCRIPTION	QTY	REMARKS
A	FLUSH MOUNTED ELECTRICAL PANEL	1	
B	PVC CONDUITS	AS REQ.	SIZE VARIES
C	PVC OR STEEL CONDUIT FOR POWER CABLE INLET	AS REQ.	SIZE VARIES
D	COUPLING FLANGED FOR STEEL CONDUIT ONLY	1	SIZE VARIES

برای مناقصه:
FOR TENDER



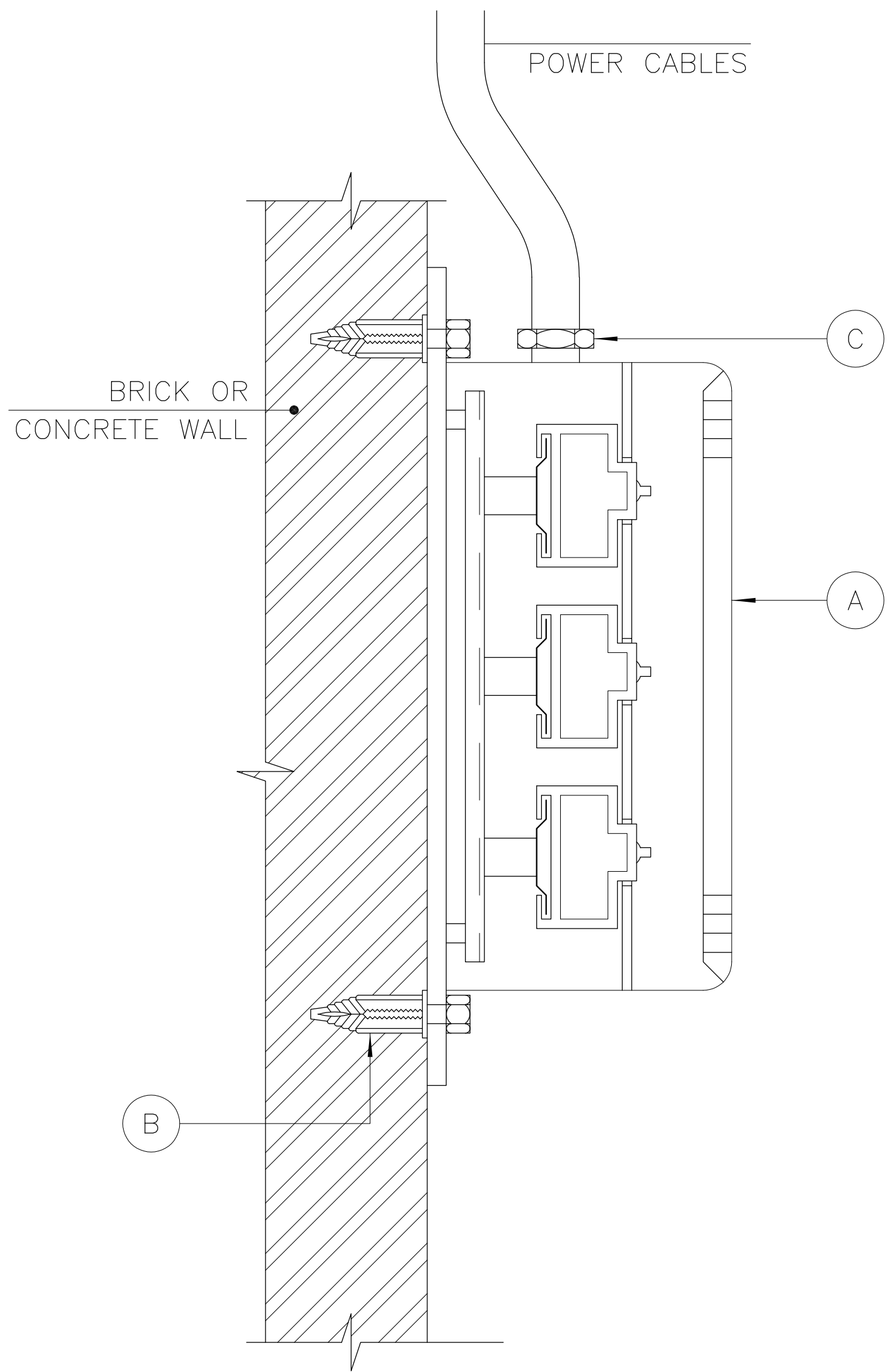
SURFACE MOUNTED LIGHTING PANEL
ON CONCRETE OR BRICK WALL
UNDERGROUND



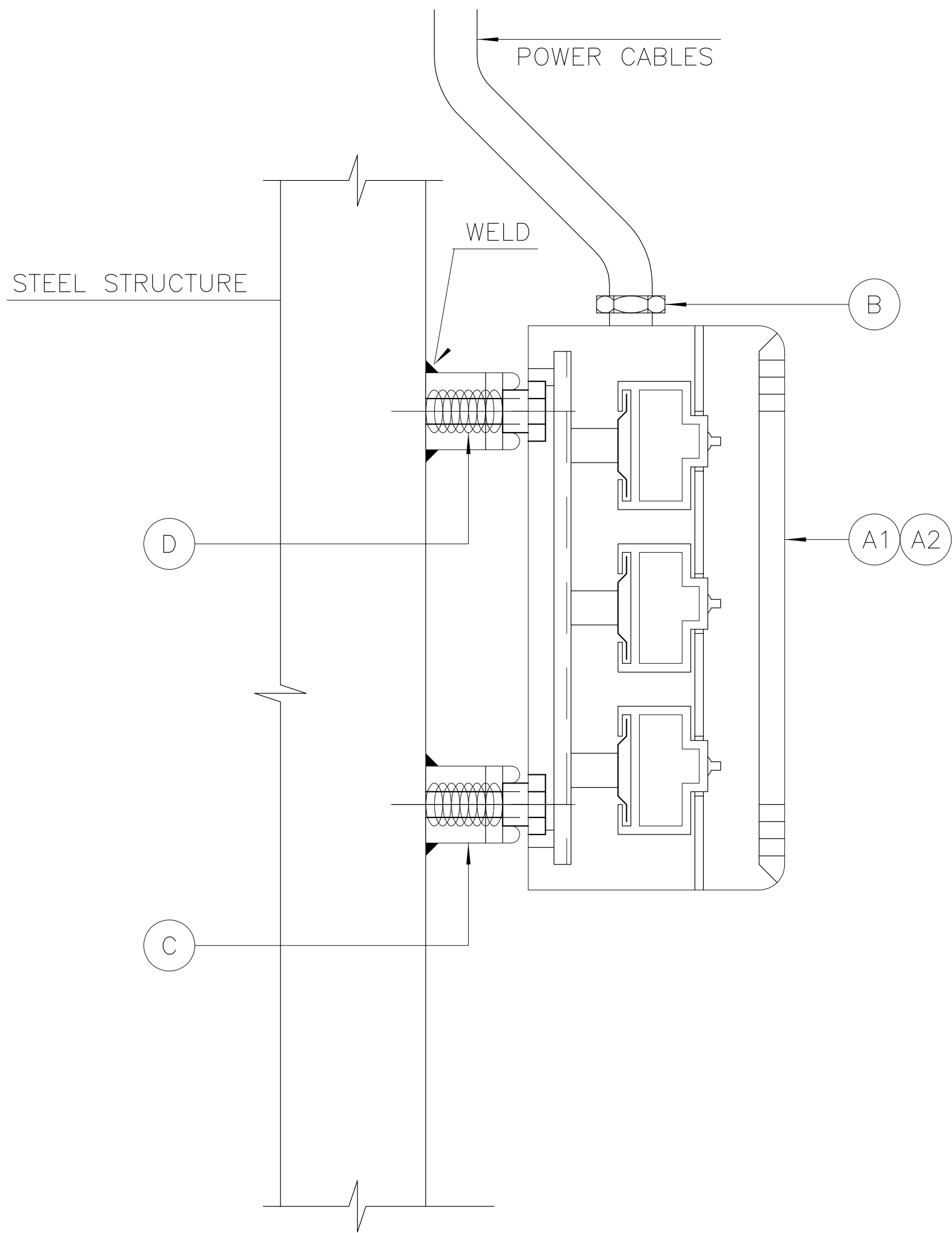
SURFACE MOUNTED LIGHTING PANEL
ON STEEL STRUCTURE
UNDERGROUND

ITEM	D E S C R I P T I O N	QTY	REMARKS
A	SURFACE MOUNTED ELECTRICAL PANEL	1	
B	BOLT PROJECTING RAWLBOLT AS 161B	4	
C	CABLE GLAND	AS REQ.	

ITEM	D E S C R I P T I O N
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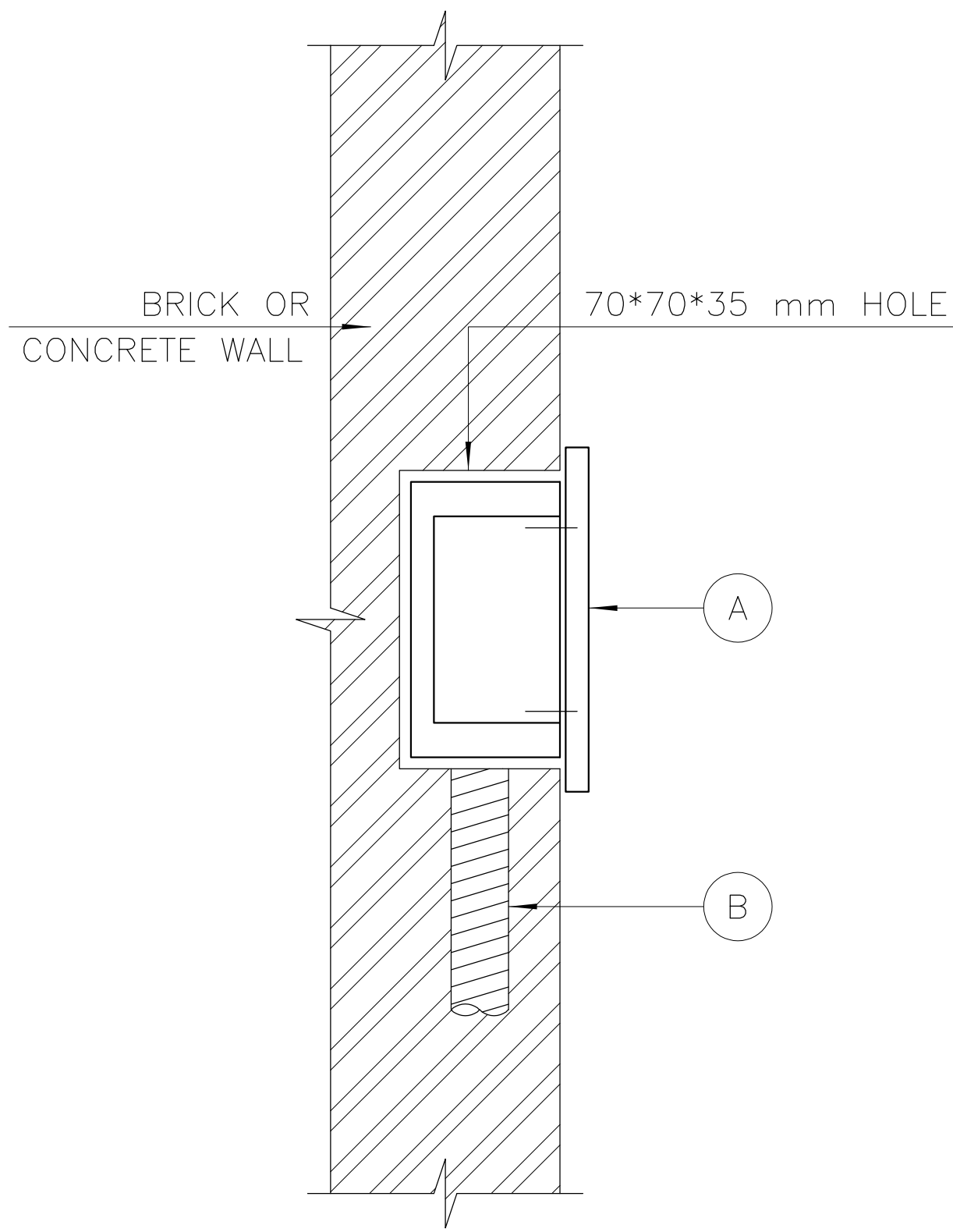
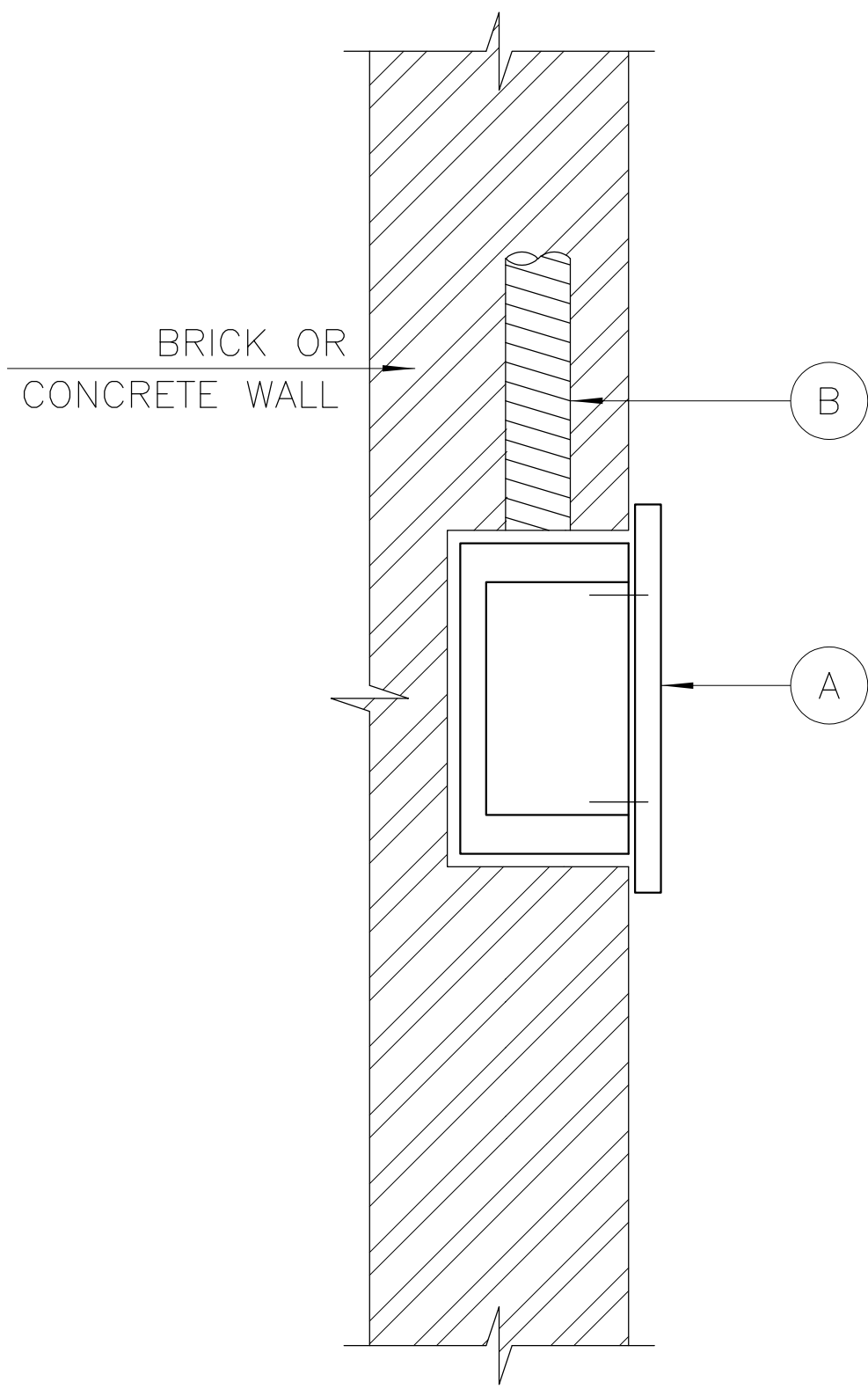
SURFACE MOUNTED LIGHTING PANEL
ON CONCRETE OR BRICK WALL
ABOVEGROUND



SURFACE MOUNTED LIGHTING PANEL
ON STEEL STRUCTURE
ABOVEGROUND

برای مناقصه:
FOR TENDER

ITEM	D E S C R I P T I O N	QTY	REMARKS
A	SURFACE MOUNTED ELECTRICAL PANEL	1	
B	BOLT PROJECTING RAW		

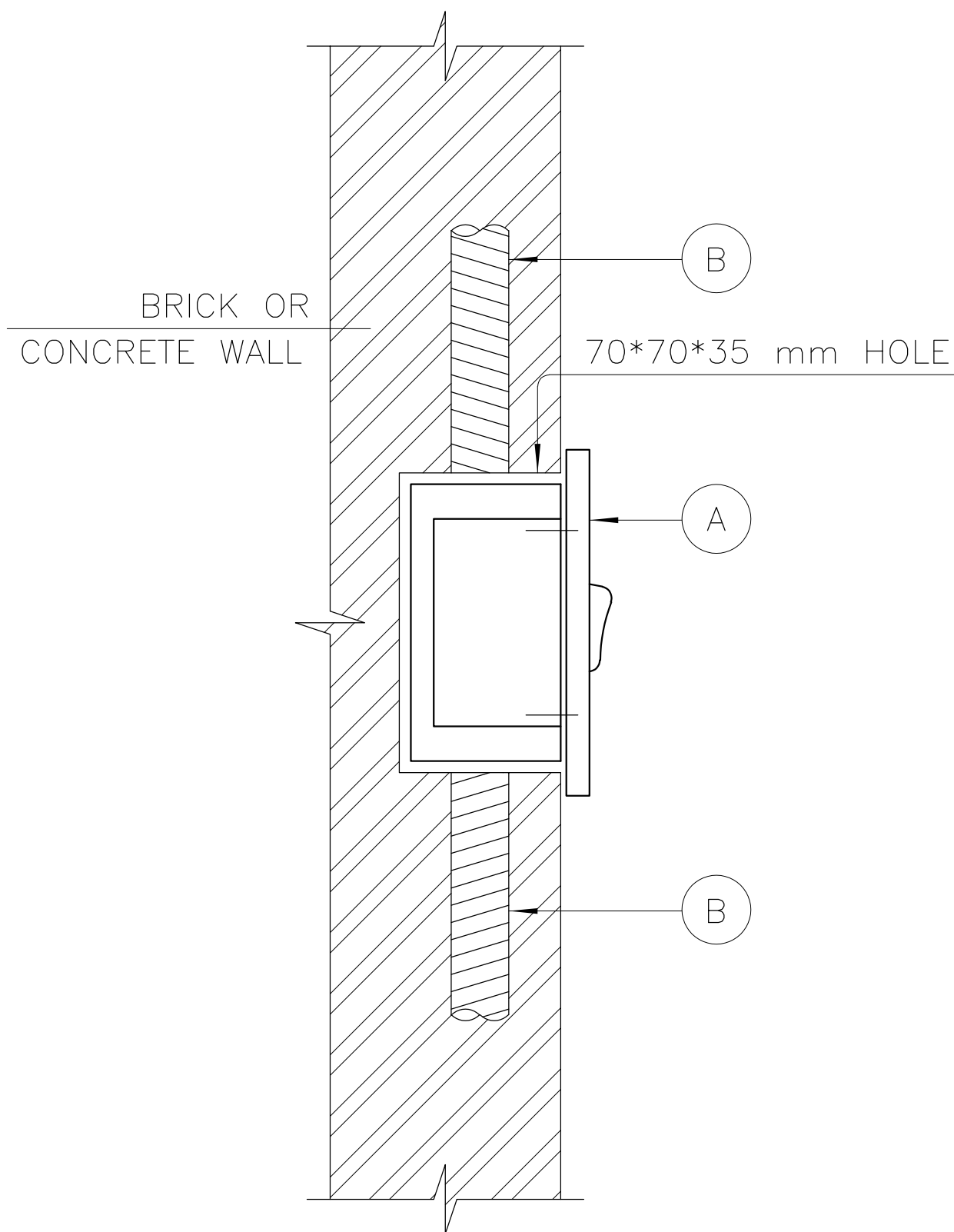


ITEM	DESCRIPTION	QTY	REMARKS
A	FLUSH MOUNTED SOCKET OUTLET , INDOOR FOR TYPE SEE PLAN DRAWING	1	
B	20 mm DIA. HEAVY GAUGE PVC CONDUIT	1	
C			

برای مناقصه:
FOR TENDER

SOCKET OUTLET , FLUSH MOUNTED

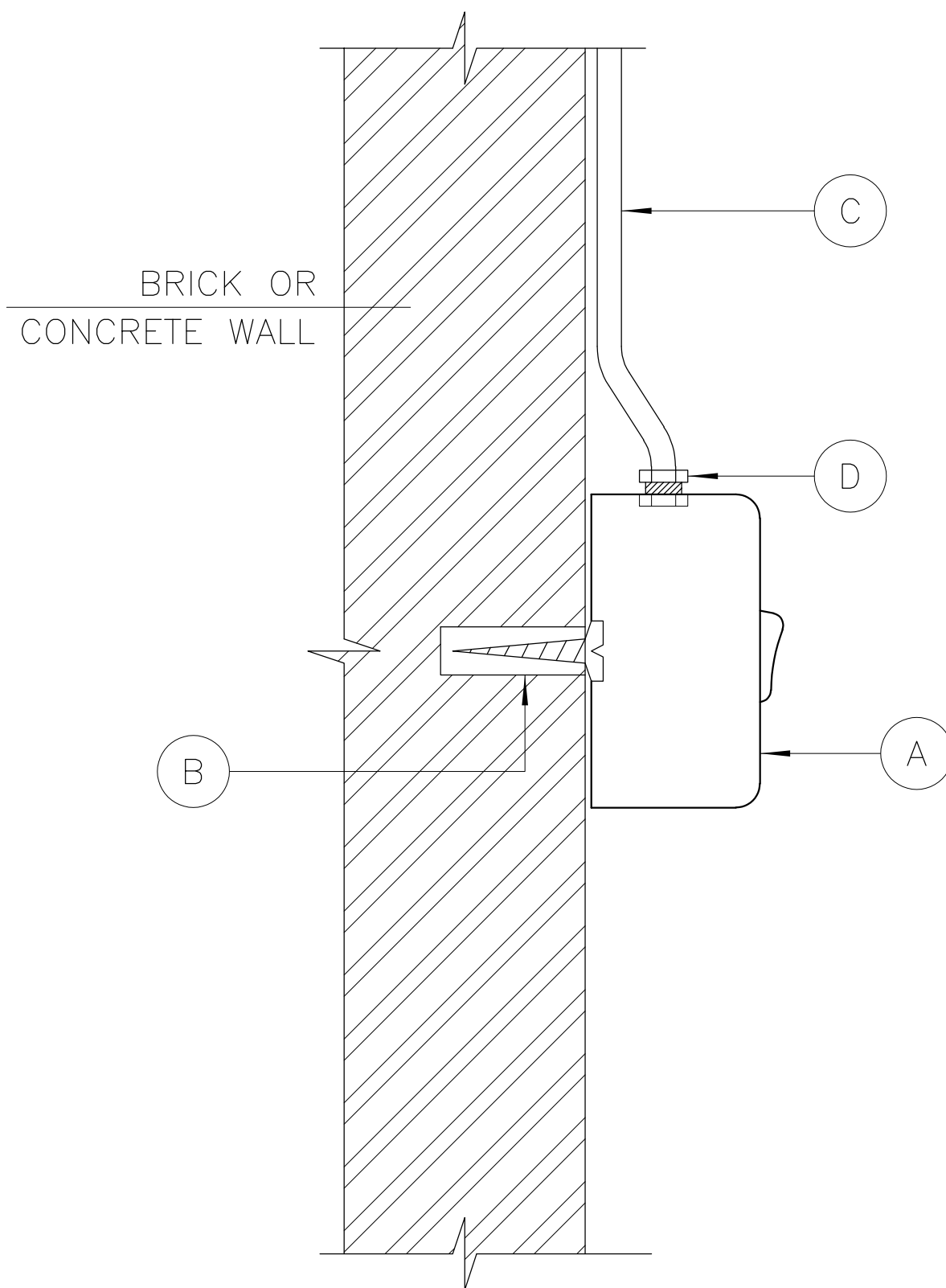
مطالعات فاز یک: PHASE 1 STUDY	☐	م.
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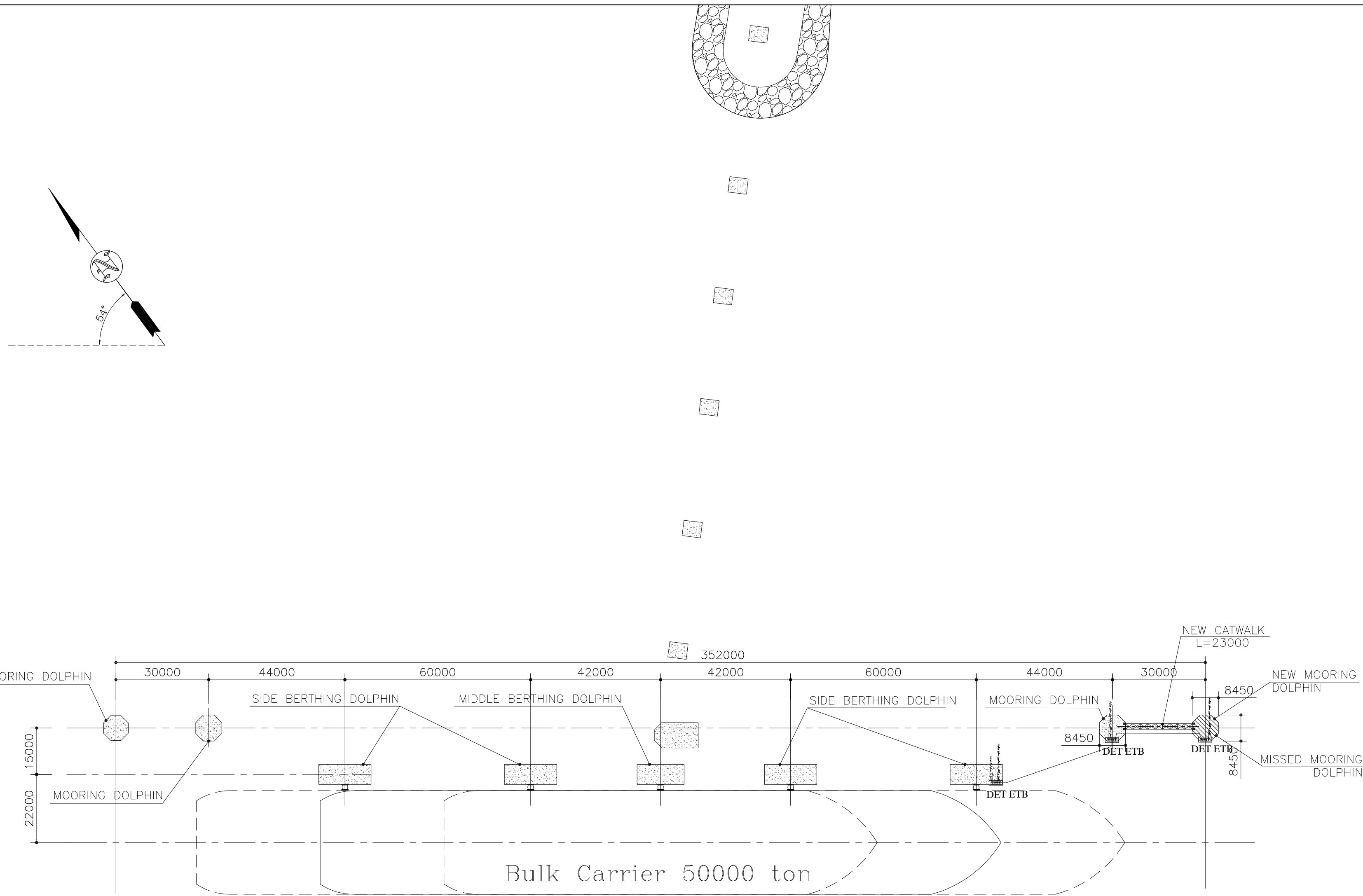
LIGHTING SWITCH , FLUSH MOUNTED

ITEM	D E S C R I P T I O N	QTY	REMARKS
A	FLUSH MOUNTED LIGHTING SWITCH , INDOOR FOR TYPE SEE PLAN DRAWING	1	
B	20 mm DIA. HEAVY GAUGE PVC CONDUIT	1	
C			

NOTE :
1- INSTALLATION HEIGHT : 110 cm ABOVE FINISHED FLOOR.



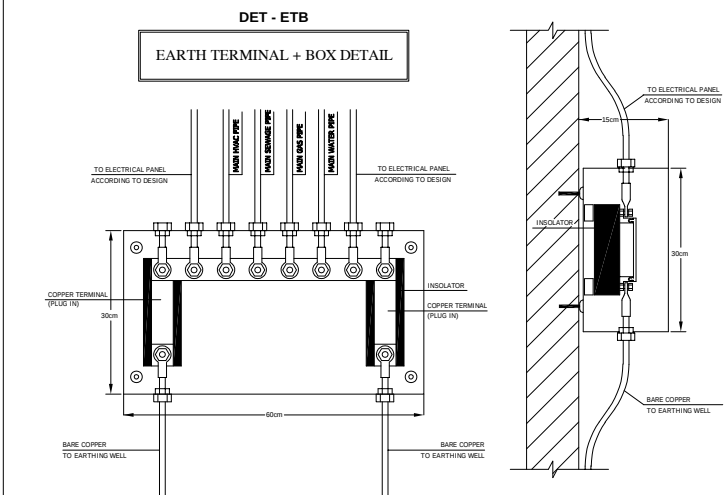
LIGHTING



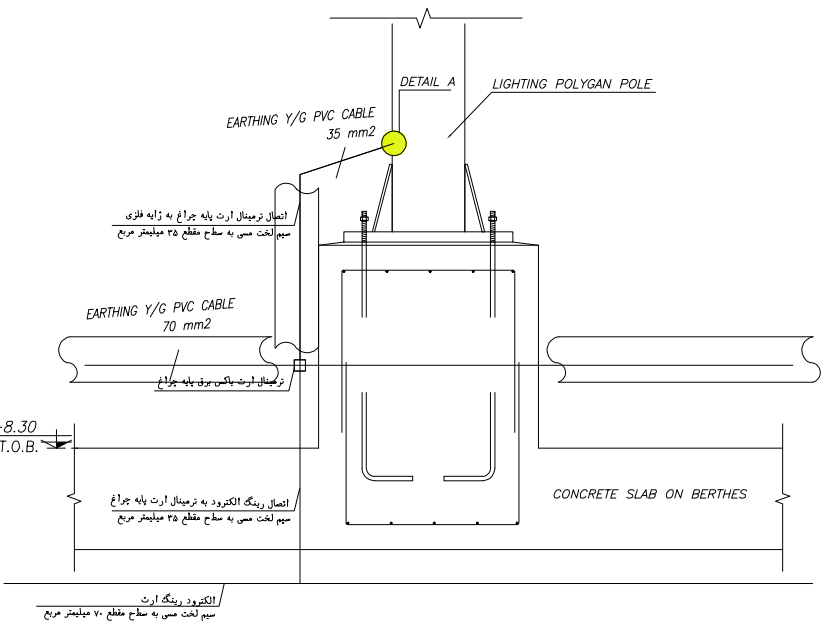
EARTHING LAYOUT- GENERAL LAYOUT OF JETTY
SC.1:100

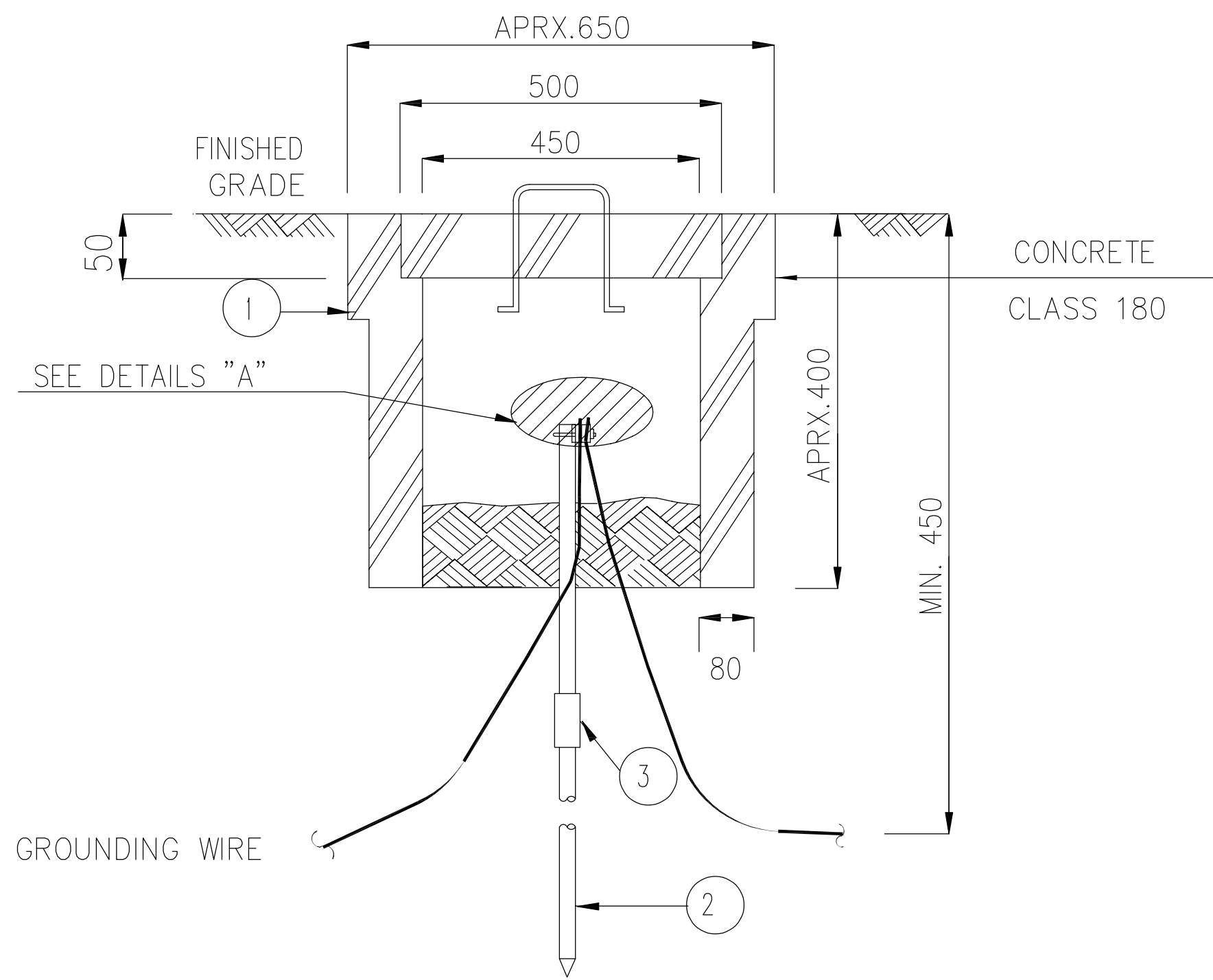
DET - ETB

جزئیات اجرایی باکس ارت

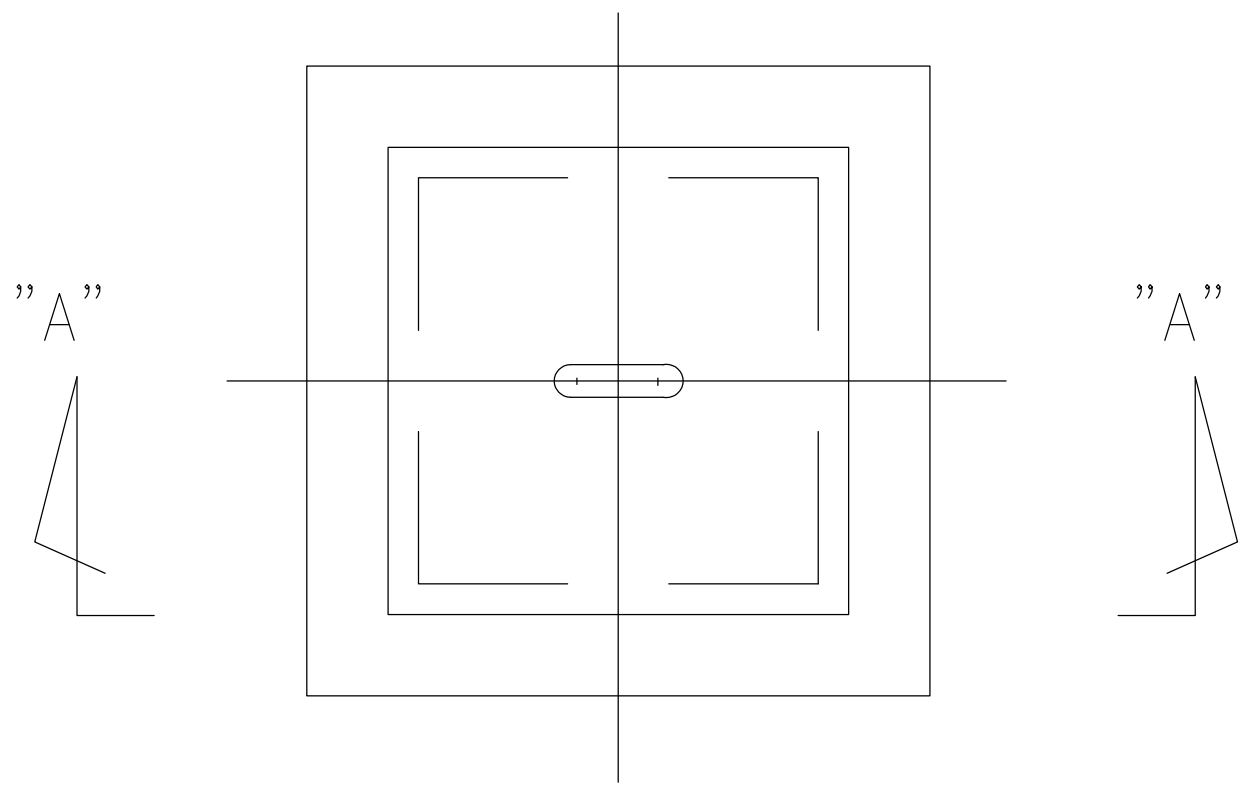


جزئیات اجرایی اتصال رینگ الکترو د به الکترو د ارت و همبندی پایه چراغ برق

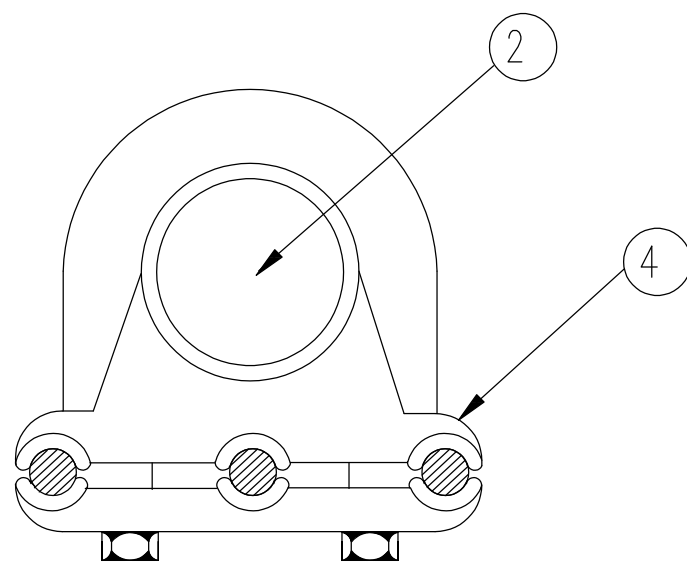




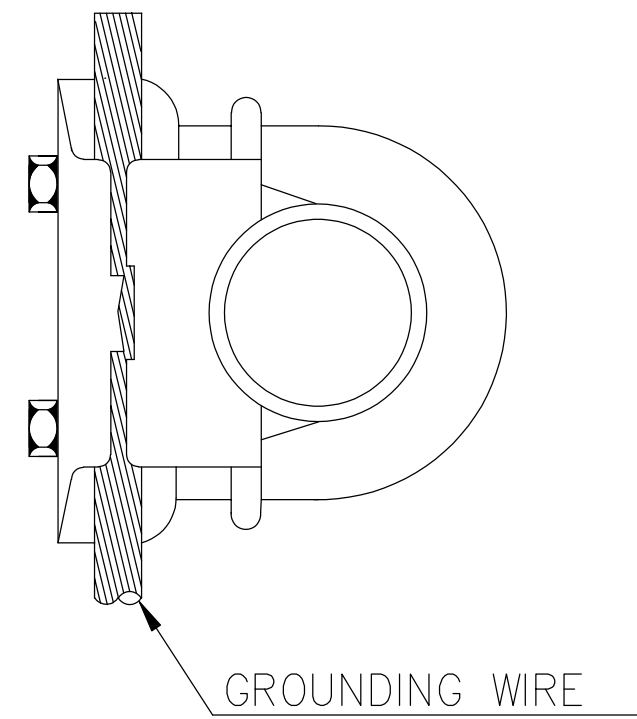
SECTION "A-A"
ELECTRICAL EARTH

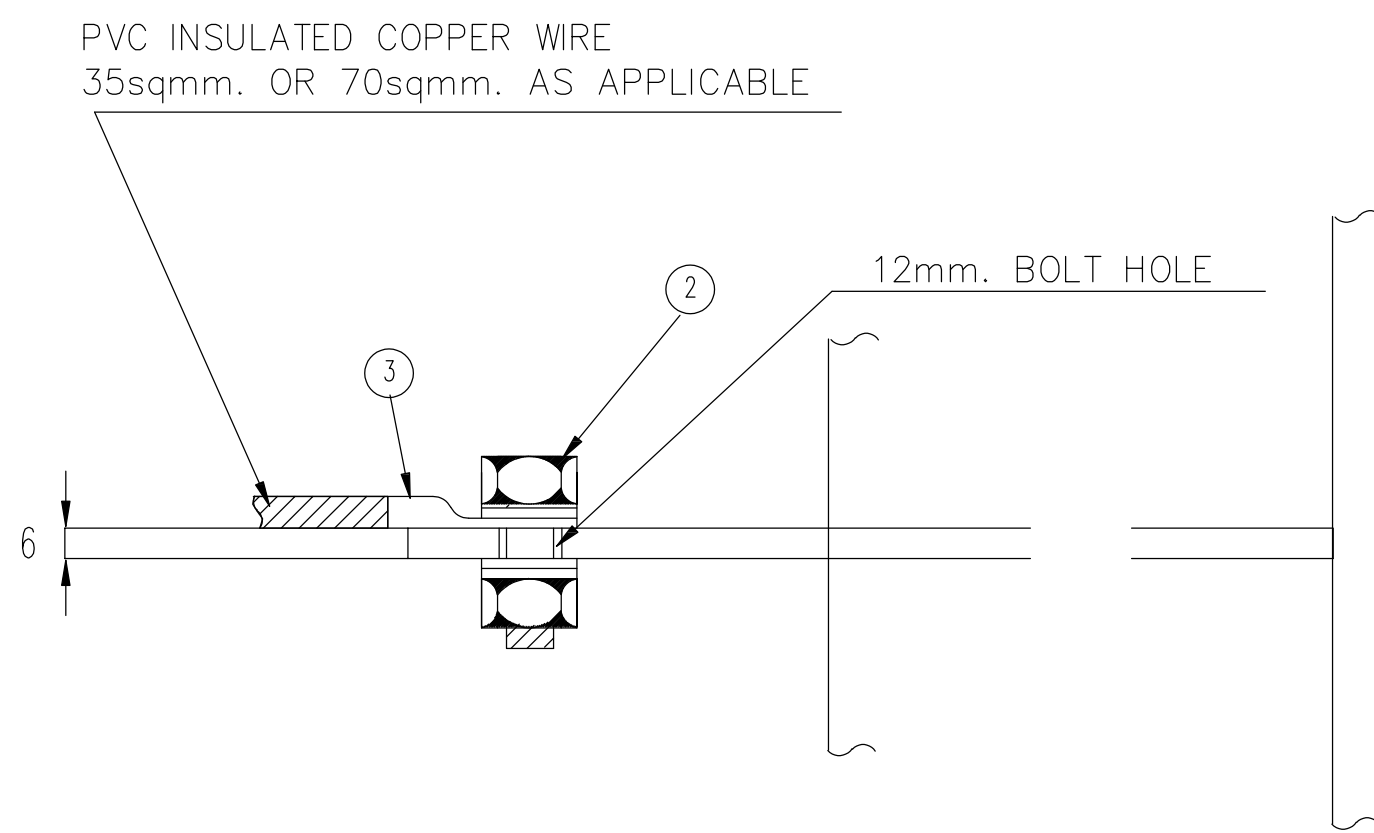
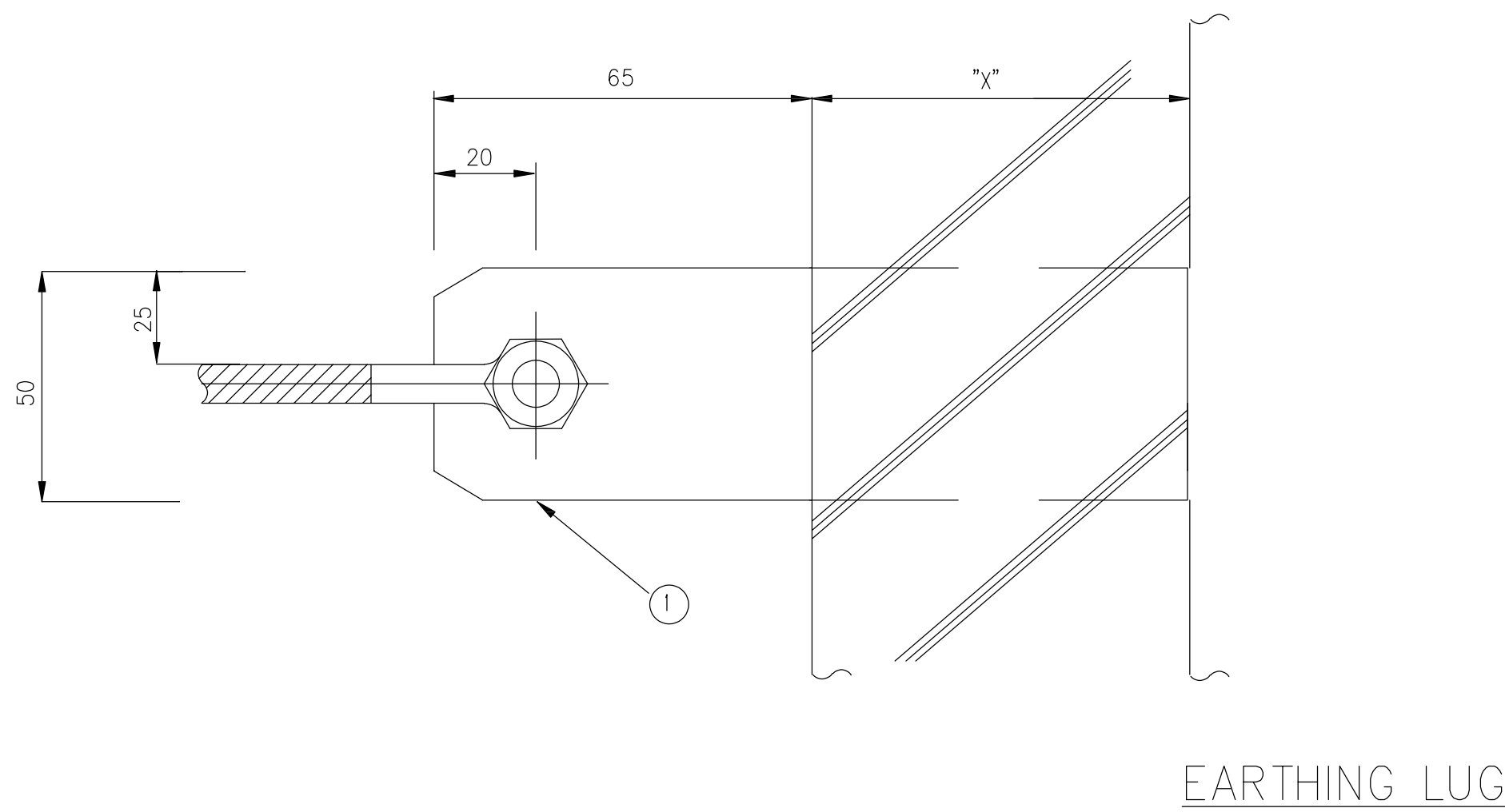
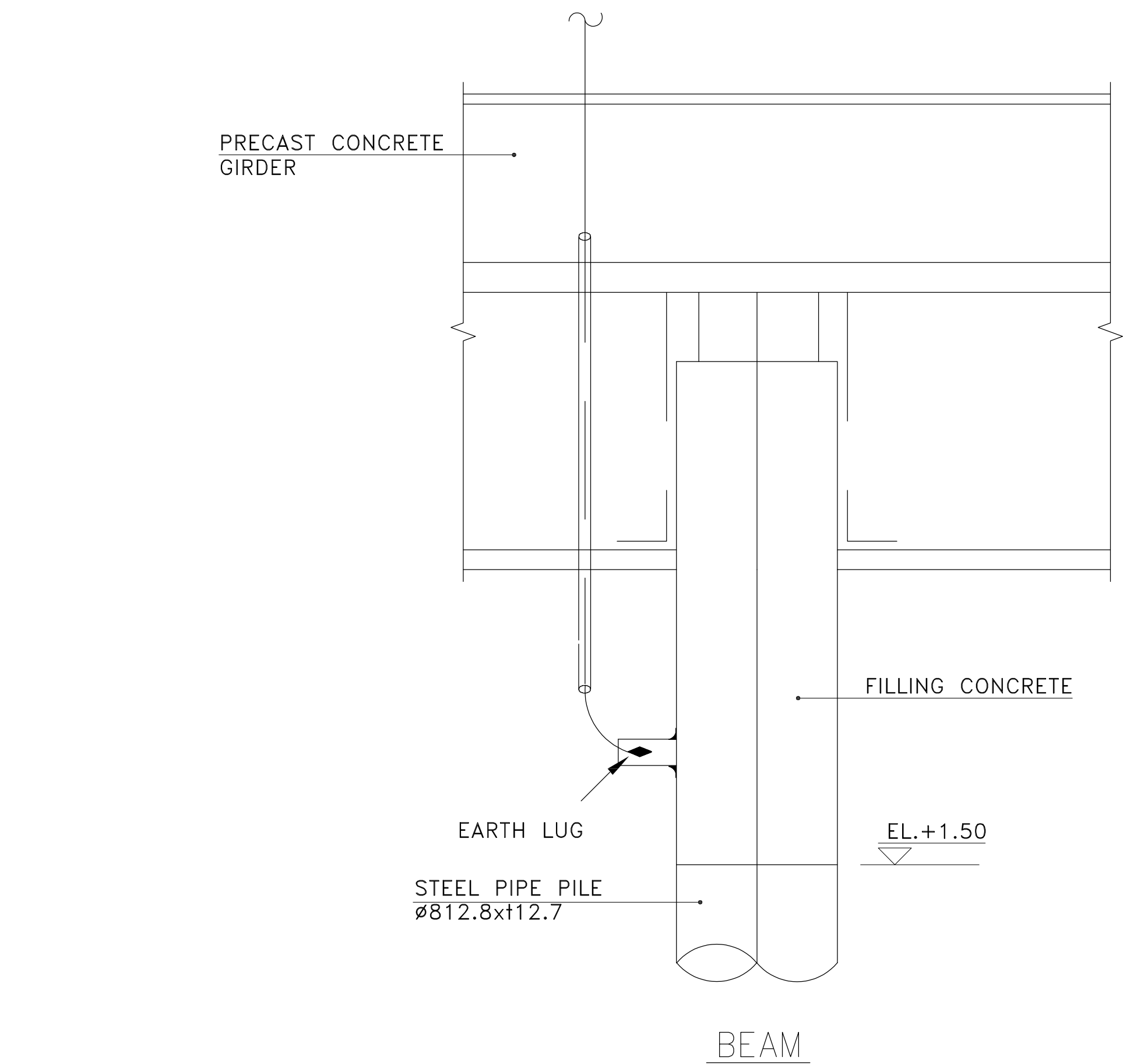


GROUND BED
TOP VIEW

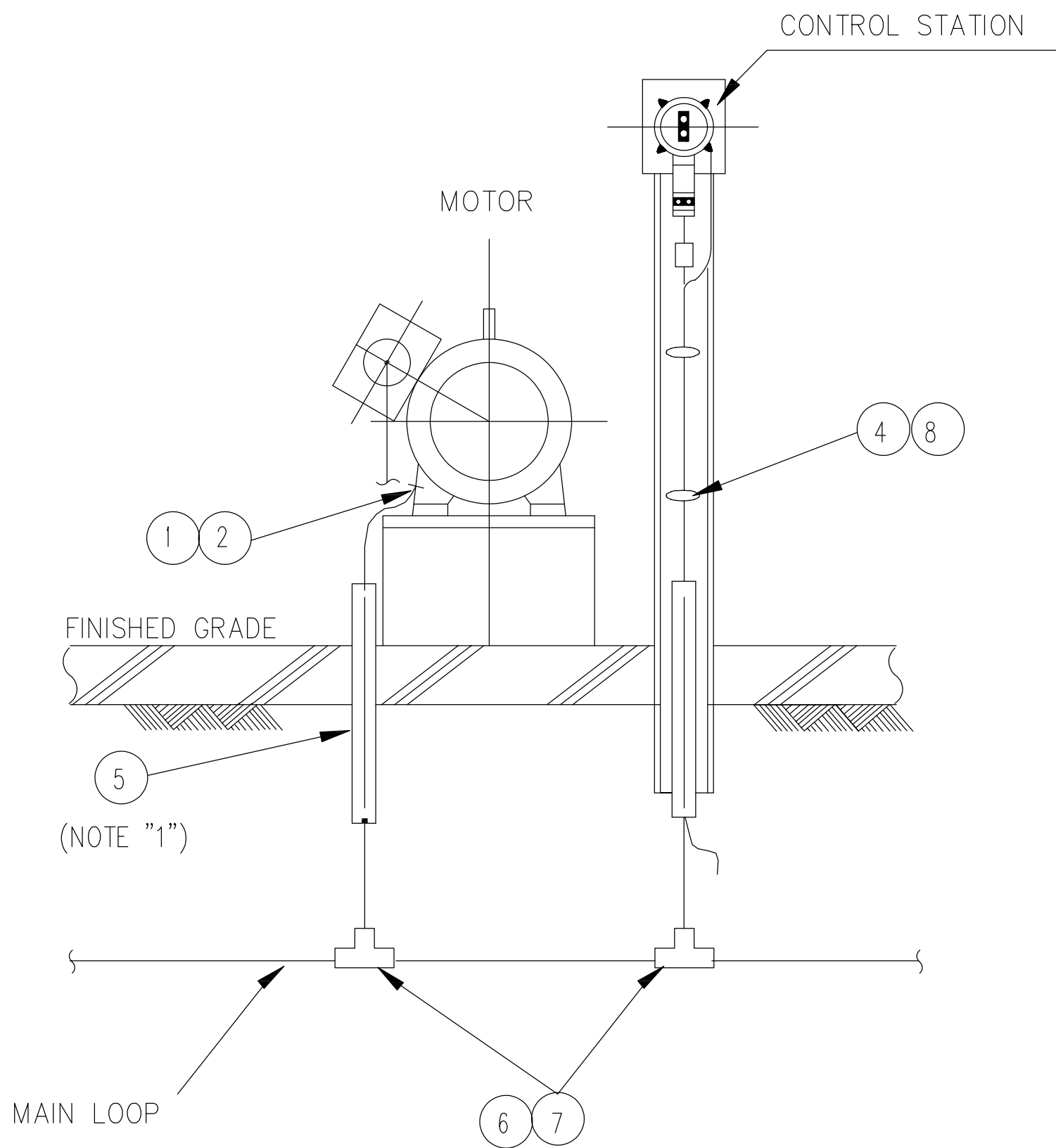


THREE CONDUCTOR TYPE

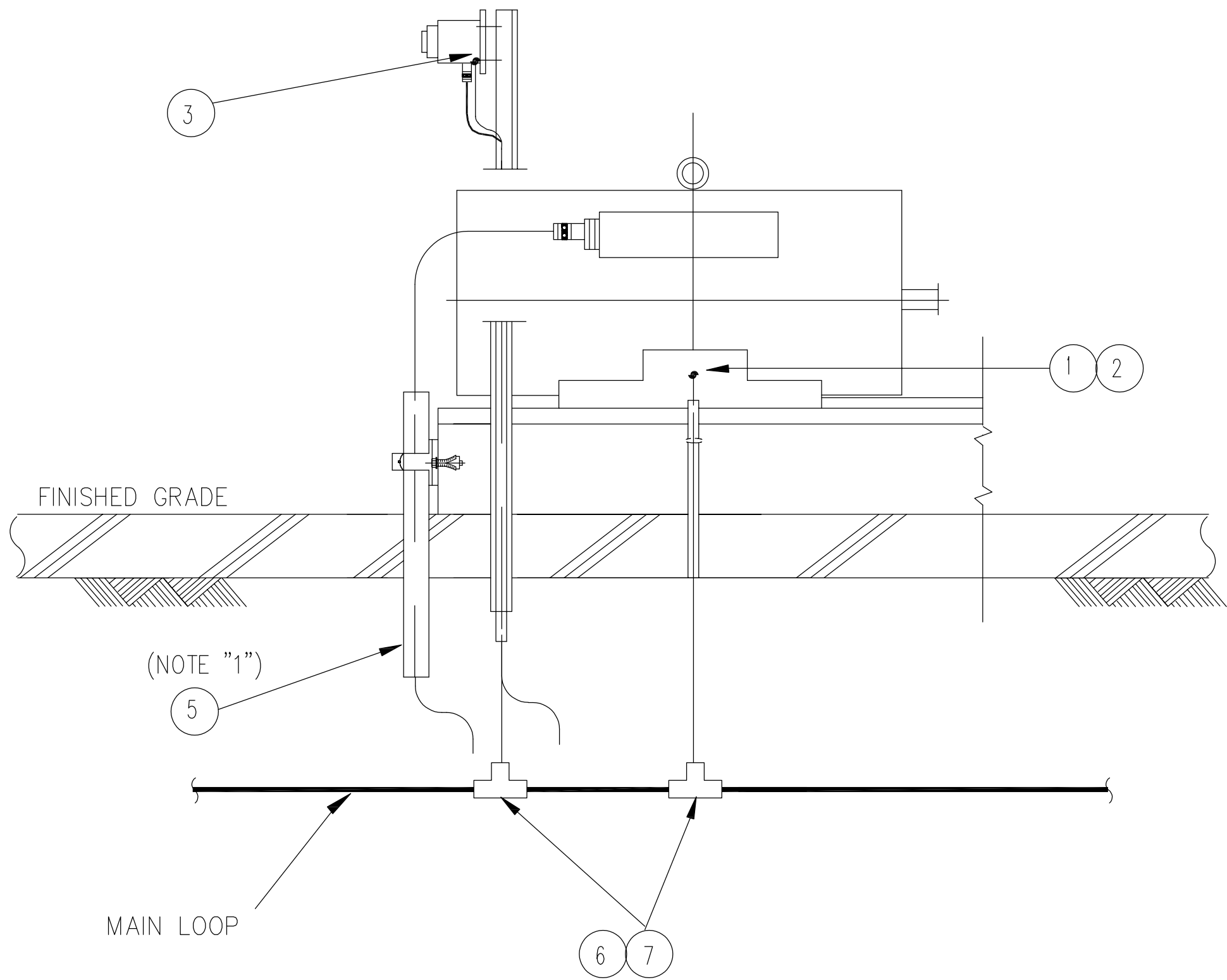




NOTES:



MOTOR FEEDER
FRONT VIEW



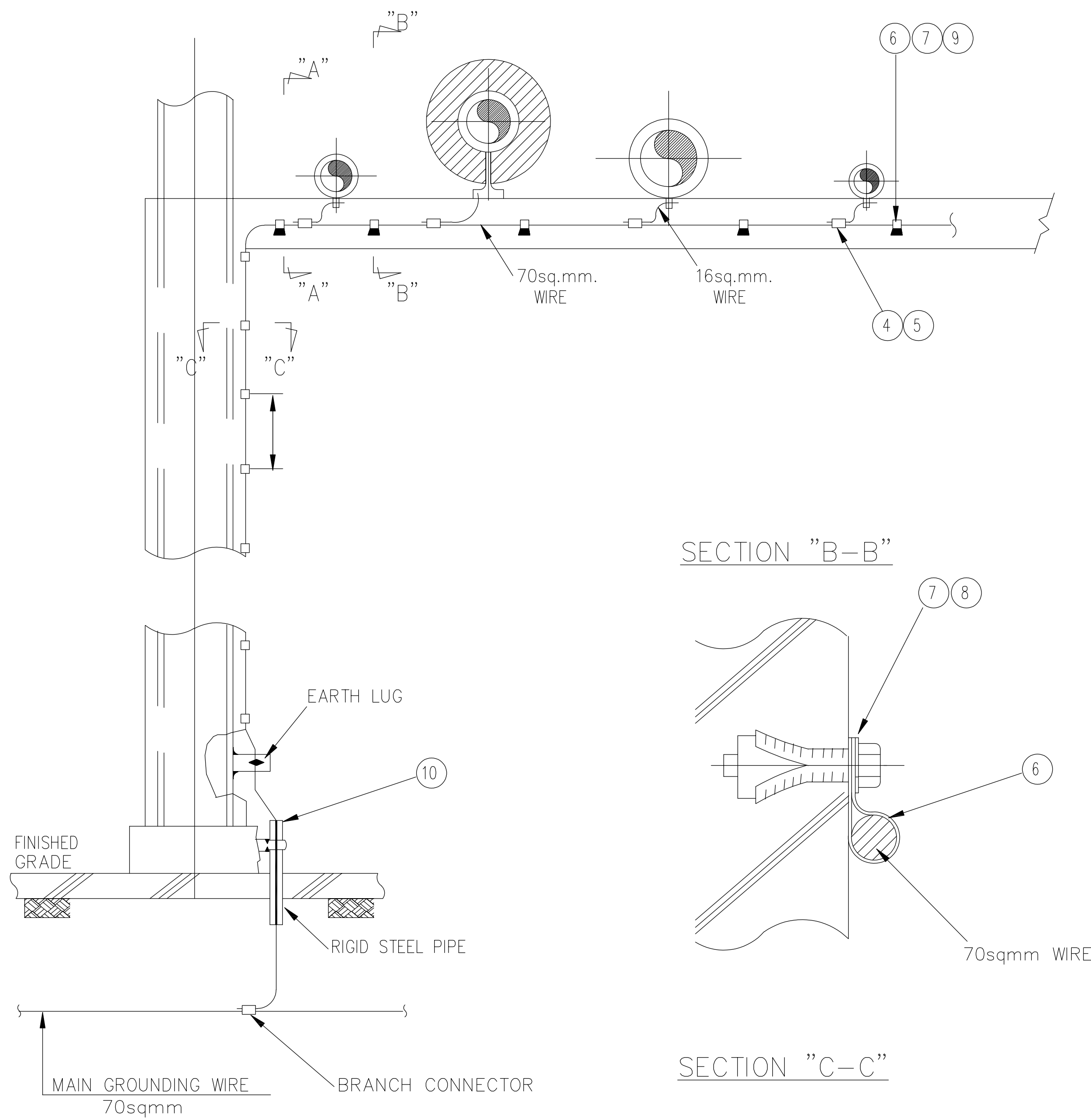
MOTOR FEEDER
SIDE VIEW

NOTES:

- 1- GROUNDING WIRE MAY BE INSTALLED
TOGETHER WITH A CABLE IN THE SAME
CONDUIT.

برای مناقصه:
FOR TENDER

No.	DESCRIPTION	QTY.
1	CRIMP TYPE TERMINAL LUG FOR MOTOR	1-EA
2	BOLT WITH 1-SPRING, 1-FLAT WASHER FOR MOTOR	1-SET
3	CRIMP TYPE TERMINAL LUG, 16sqmm. FOR CONTROL STATION	1-EA
4	BOLT & NUT WITH	



GROUNDING INSTALLATION VIEW
ON PIPE RACK

No.	DESCRIPTION	QTY.
①	EARTH LUG	AS REQ.
②	CRIMP TYPE TERMINAL LUG, 16 sqmm.	AS REQ.
③	BOLT & NUT WITH 1–SPRING,2–FLAT WASHERS SIZE :M10x25L, FOR EARTH LUG – STAINLESS STEEL	AS REQ.
④	BRANCH CONNECTOR	AS REQ.
⑤	PVC INSULATION COMPOUND	AS REQ.
⑥	CABLE CLIP	AS REQ.
⑦	SELF FIXING ANCHOR	AS REQ.
⑧	BOLT WITH 1–SPRING, 1–FLAT WASHER SIZE :M6x20L, FOR CABLE CLIP – STAINLESS STEEL	AS REQ.
⑨		

