

GENERAL NOTES FOR STRUCTURES

1. REINFORCED CONCRETE PIPE CULVERT FOR GENERAL ON--FARM WORK USE PIPE CLASS 3,

SEE DWG. NO. ၂၅၂. -2-002 UNLESS OTHERWISE SHOWN.
2. FOR JOINTS & PLACEMENT OF CULVERTS, SEE DWG. NO. ၂၅၂. -2-004
3. STRUCTURES TO BE PLACED ON UNDISTRUBED EARTH OR THOROUGHLY COMPACTED FILL IN CASE

OF COMPACTED BACKFILL, THE COMPACTION SHOULD BE UP TO 95 % OF THE STANDARD

PROCTOR COMPACTION TEST.
4. STRESS :

REINFORCED CONCRETE FOR ON--FARM WORKS.

- STRUCTURES 210 KG./CM.² (FOR PRECAST)

- PLAIN CONCRETE 140 KG./CM.² (FOR CAST IN SITUATION)

- ALLOWABLE TENSILE STRESS IN STEEL 1,200 KG./CM.²
5. LAP LENGTH OF PLAIN BARS IS 48 TIMES DIAMETER AT SPLICES WITH HOOKS,

UNLESS OTHERWISE SHOWN.
6. FOR NOTATION OF BARS REFER TO R.I.D.'S STANDARDS SPACING OF BARS SHOWN

IS FROM CENTER TO CENTER, UNLESS OTHERWISE SPECIFIED.
7. BACKFILL AROUND STRUCTURES TO BE COMPACTED PROPERLY AS DIRECTED.
8. ALL CONSTRUCTION JOINTS SHALL BE TREATED BY THE METHOD ASSURING THE BEST BOND.
9. WHENEVER UNSUITABLE SOIL STRATA IS ENCOUNTERED, THE CUT--OFF WALLS WILL BE EXTENDED

AS DIRECTED BY R.I.D.'S FIELD SUPERVISOR.
10. ELEVATIONS FOR FOUNDATIONS ON THE DRAWINGS ARE SUBJECT TO CHANGE ACCORDING TO

FIELD CONDITIONS AND AS DIRECTED BY R.I.D.'S FIELD SUPERVISOR.

GENERAL NOTES

1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS, UNLESS OTHERWISE SHOWN.

LENGTH AND STATIONING ALONG THE DITCH CENTERLINE SHOWN IN THE PROFILE IS

APPROXIMATE ONLY AS NO CURVE DATA IS PROVIDED. THE BEGINNING STATION OF

A DITCH KM.0+000 IS AT THE CENTERLINE OF CANAL.
2. DESIGNATION NUMBERS OF DITCH CANALS CONTAIN TWO DIGITS NAMELY STARTING

FROM 01--99 ANOTHER NUMBER SEPARATED BY A DASH LINE FROM THE FIRST,

DESIGNATES THE PARENT CANAL, FOR EXAMPLE 05--1 AND 05--2 ODD DIGITS

DESIGNATE DITCH AT THE LEFT SIDE AND RIGHT SIDE OF THE PARENT CANAL.
3. LOCATION OF FARM INLET HAS BEEN SHOWN IN THE PLAN BUT NO STATION HAS

BEEN PROVIDED IN THE PROFILES. FINAL LOCATION WILL THEREFORE BE DETERMINED

BY FIELD'S ENGINEER.
4. COMPACTION BEDDING OF PRECAST CONCRETE U--SHAPE SHOULD BE 85 % MIN. OF

THE STANDARD PROCTOR COMPACTION TEST.
5. THE ENGINEER IS ELIGIBLE TO ELIMINATE, ADD, REPLACE OR MODIFY A STRUCTURE

OR DITCH ALIGNMENT IF HE DEEMS IT NECESSARY PRIOR TO ITS CONSTRUCTION SUCH

MODIFICATION WILL BE CONSIDERED AS IF IT WAS ORIGINALLY SHOWN IN THE DRAWINGS.

ACCURATE LOCATION OF STRUCTURES WILL ALSO BE DETERMINED BY HIM IN EACH

SPECIFIC CASE, AS THE STATION GIVEN IN PROFILES IS ONLY APPROXIMATE.
6. WHEREVER THERE IS A CHANGE OF DIRECTION IN THE PRECAST CONCRETE U--SHAPE

SHOULD BE USED BEND STRUCTURE.

							ROYAL IRRIGATION DEPARTMENT			
							ON--FARM IRRIGATION SYSTEM			
							GENERAL NOTES			
							FOR U--SHAPE			
REV.	POSITION	DESCRIPTION	DATE	CHECKED	REVIEWED	APPROVED	DESIGN DIVISION	DATE	145100	
				SUBMITTED	RECOMM.		ON--FARM DESIGN BRANCH			
							DESIGNED		SUBMITTED	CS.
							DRAWN		REVIEWED	DD.
							TRACED	URAI	RECOMMENDED	DD.
							CHECKED	APPROVED		DG.

LEGEND

	CANAL
	DRAINAGE CANAL
	DITCH
	BOUNDARY LINE
	PURPOSE DRAINAGE ALIGNMENT
	RIVER OR NATURAL DRAIN
	VILLAGE
	SWAMP OR POND
	ROAD OR LATERITE ROAD
	TRACK

LEGEND

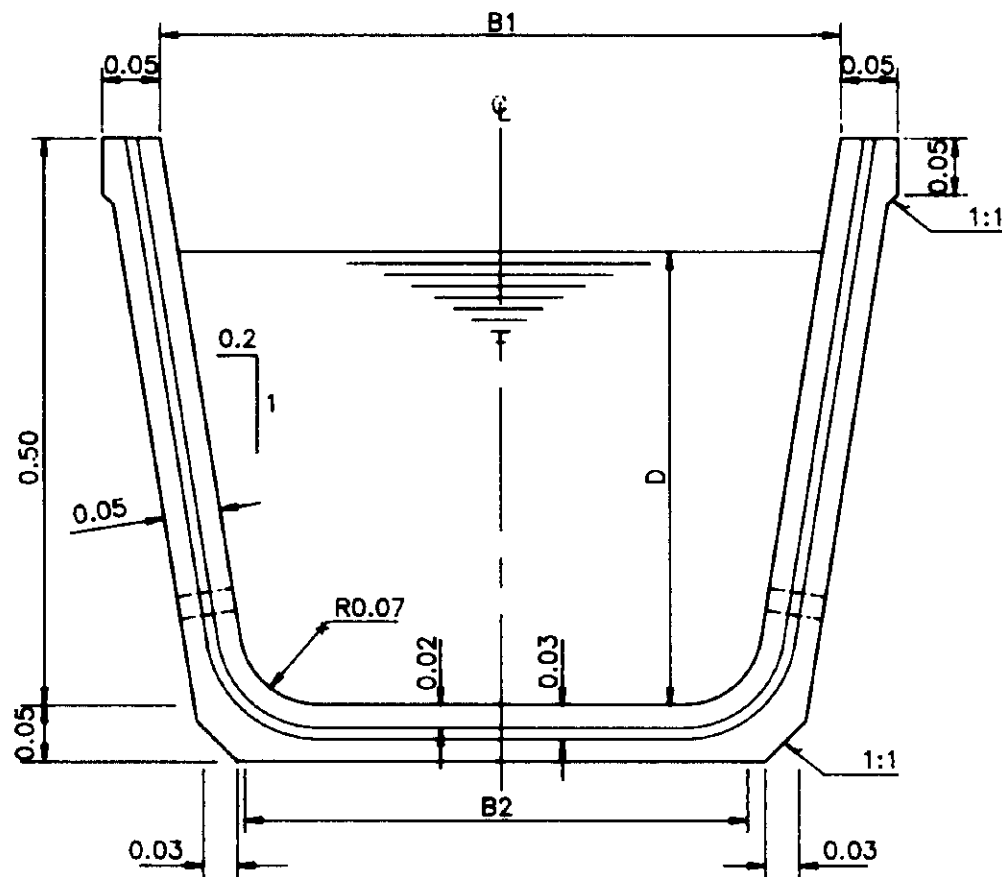
	CHECK GATE
	TRANSITION
	BEND
	VERTICAL DROP STRUCTURE
	ROADWAY CROSSING STRUCTURE
	ROADWAY CULVERT STRUCTURE
	HIGHWAY CULVERT IN DITCH STRUCTURE
	LOW ROAD CULVERT STRUCTURE
	ENTRANCE STRUCTURE
	DRAIN CULVERT STRUCTURE
	FLUME STRUCTURE
	FARM TURNOUT STRUCTURE
	NEW FARM TURNOUT STRUCTURE
	DITCH TURNOUT STRUCTURE
	FARM INLET STRUCTURE
	DIAMETER
	SKEW ANGLE

ABBREVIATION

B1	=	TOP WIDTH OF DITCH
B2	=	BOTTOM WIDTH OF DITCH
D	=	DEPTH OF WATER
Q	=	DISCHARGE OF WATER
EL.	=	ELEVATION
TB.	=	TOP BANK OF DITCH
F.S.L.	=	FULL SUPPLY LEVEL
R.W.L.	=	RETENTION WATER LEVEL
F.D.L.	=	FULL DRAIN LEVEL
BL.	=	BED LEVEL
N.G.L.	=	NATURAL GROUND LEVEL
cms	=	CUBICMETER PER SECOND
l/sec.	=	LITRE PER SECOND
Km	=	KILOMETER
m	=	METER
cm	=	CENTIMETER
STR.	=	STRUCTURE
H	=	HEAD LOSS
L	=	LENGTH
DIA.	=	DIAMETER
R	=	RADIUS
t	=	THICKNESS
F.T.O	=	FARM TURNOUT STRUCTURE
DT	=	DITCH TURNOUT STRUCTURE
FI	=	FARM INLET STRUCTURE
LMC	=	LEFT MAIN CANAL
RMC	=	RIGHT MAIN CANAL
RWC	=	ROADWAY CROSSING STRUCTURE
HWC	=	HIGHWAY CULVERT IN DITCH STRUCTURE
RC	=	ROADWAY CULVERT STRUCTURE
LRC	=	LOW ROAD CULVERT STRUCTURE
T	=	TRANSITION
G	=	CHECK GATE
V/D	=	VERTICAL DROP STRUCTURE
DC	=	DRAIN CULVERT STRUCTURE
ET	=	ENTRANCE STRUCTURE

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
LEGEND AND ABBREVIATION
FOR U-SHAPE

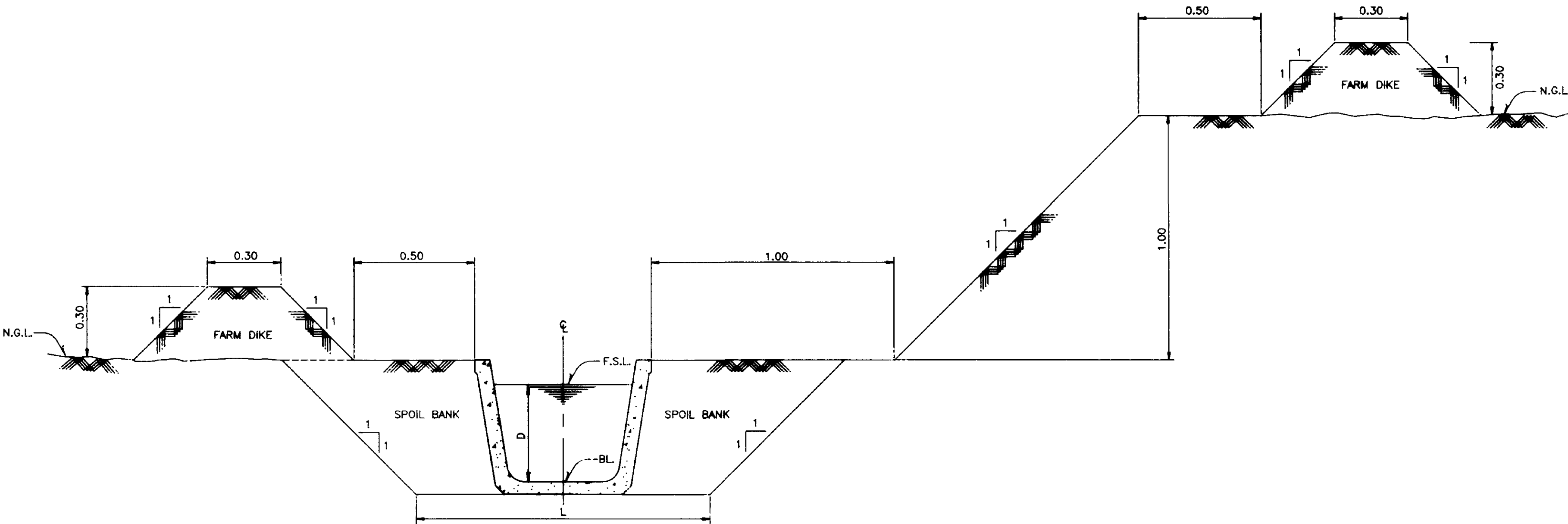
							DESIGNED		2	SUMMITTED		CS.
							DRAWN		2	REVIEWED		DDD.
							TRACED	URAI		RECOMMENDED		DD.
							CHECKED			APPROVED		DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUMMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION ON-FARM DESIGN BRANCH		2009	DATE	145101	



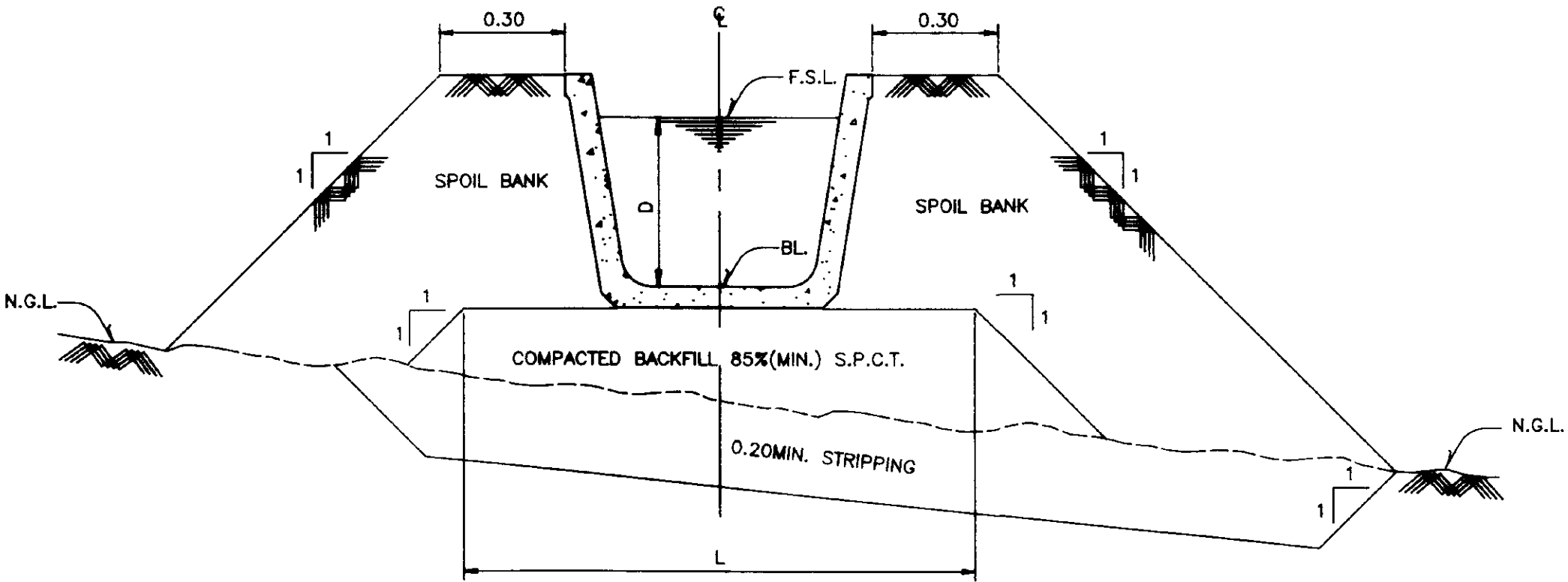
TYPICAL SECTION U-SHAPE
NOT TO SCALE

TABLE FOR TYPE U1,U2,U3

SLOPE	TYPE U1									TYPE U2						TYPE U3			REMARK
	Q=30 l/sec			Q=60 l/sec			Q=90 l/sec			Q=60 l/sec			Q=90 l/sec			Q=90 l/sec			
	B ₁	B ₂	D	B ₁	B ₂	D	B ₁	B ₂	D	B ₁	B ₂	D	B ₁	B ₂	D	B ₁	B ₂	D	
1:10-1:95	0.43	0.23	—	0.43	0.23	—	0.43	0.23	—	—	—	—	—	—	—	—	—	—	"L" U1=1.00m
1:100	0.43	0.23	0.12	0.43	0.23	0.19	0.43	0.23	0.24	—	—	—	—	—	—	—	—	—	"L" U2=1.20m
1:150	0.43	0.23	0.13	0.43	0.23	0.21	0.43	0.23	0.28	—	—	—	—	—	—	—	—	—	"L" U3=1.50m
1:200	0.43	0.23	0.15	0.43	0.23	0.24	0.43	0.23	0.31	—	—	—	—	—	—	—	—	—	
1:250	0.43	0.23	0.16	0.43	0.23	0.25	0.43	0.23	0.33	—	—	—	—	—	—	—	—	—	
1:300	0.43	0.23	0.17	0.43	0.23	0.27	0.43	0.23	0.35	—	—	—	—	—	—	—	—	—	
1:350	0.43	0.23	0.18	0.43	0.23	0.28	0.43	0.23	0.37	—	—	—	—	—	—	—	—	—	
1:400	0.43	0.23	0.19	0.43	0.23	0.30	0.43	0.23	0.39	—	—	—	—	—	—	—	—	—	
1:450	0.43	0.23	0.19	0.43	0.23	0.31	0.43	0.23	0.40	—	—	—	—	—	—	—	—	—	
1:500	0.43	0.23	0.20	0.43	0.23	0.32	0.43	0.23	0.40	—	—	—	—	—	—	—	—	—	
1:1,000	0.43	0.23	0.25	0.43	0.23	0.40	—	—	—	—	—	—	0.63	0.43	0.33	—	—	—	
1:1,500	0.43	0.23	0.29	—	—	—	—	—	—	0.63	0.43	0.28	0.63	0.43	0.37	0.80	0.60	0.28	
1:2,000	0.43	0.23	0.32	—	—	—	—	—	—	0.63	0.43	0.31	—	—	—	0.80	0.60	0.32	
1:2,500	0.43	0.23	0.34	—	—	—	—	—	—	0.63	0.43	0.34	—	—	—	0.80	0.60	0.34	
1:3,000	0.43	0.23	0.36	—	—	—	—	—	—	0.63	0.43	0.36	—	—	—	0.80	0.60	0.36	
1:3,500	0.43	0.23	0.38	—	—	—	—	—	—	0.63	0.43	0.38	—	—	—	0.80	0.60	0.38	
1:4,000	0.43	0.23	0.40	—	—	—	—	—	—	0.63	0.43	0.40	—	—	—	0.80	0.60	0.40	



CUT SECTION
NOT TO SCALE



FILL SECTION
NOT TO SCALE

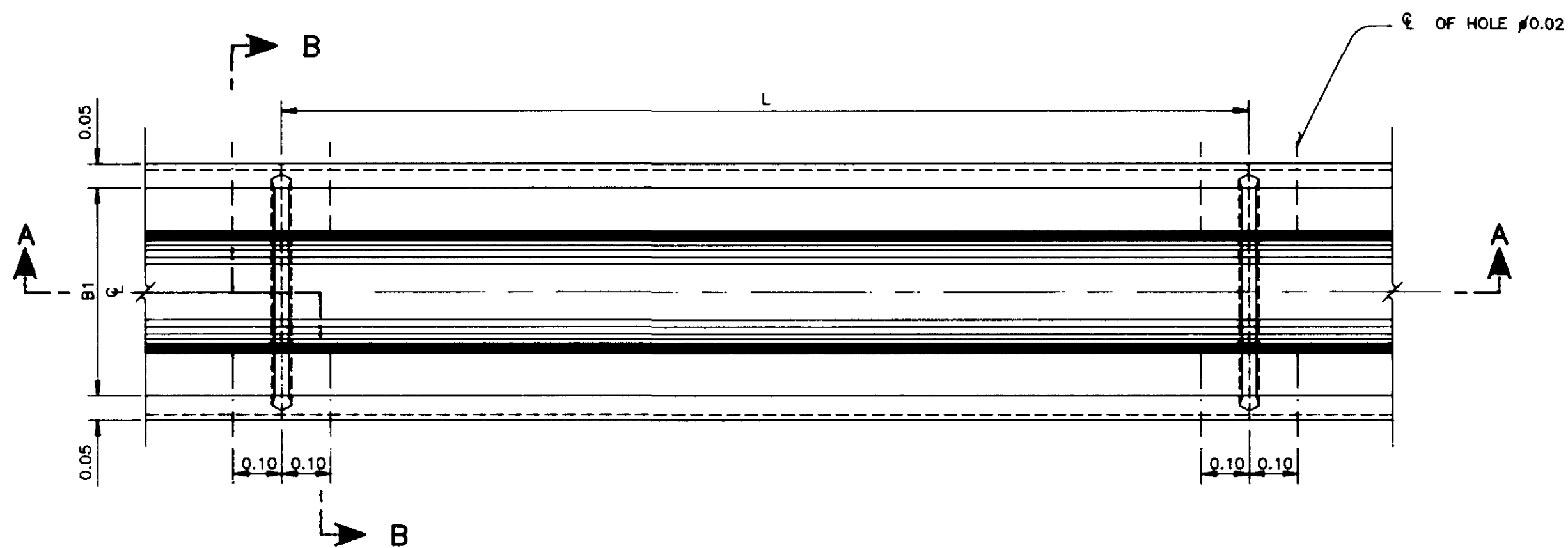
NOTES

1. GENERAL NOTES FOR U-SHAPE. DWG. NO.145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE. DWG. NO.145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

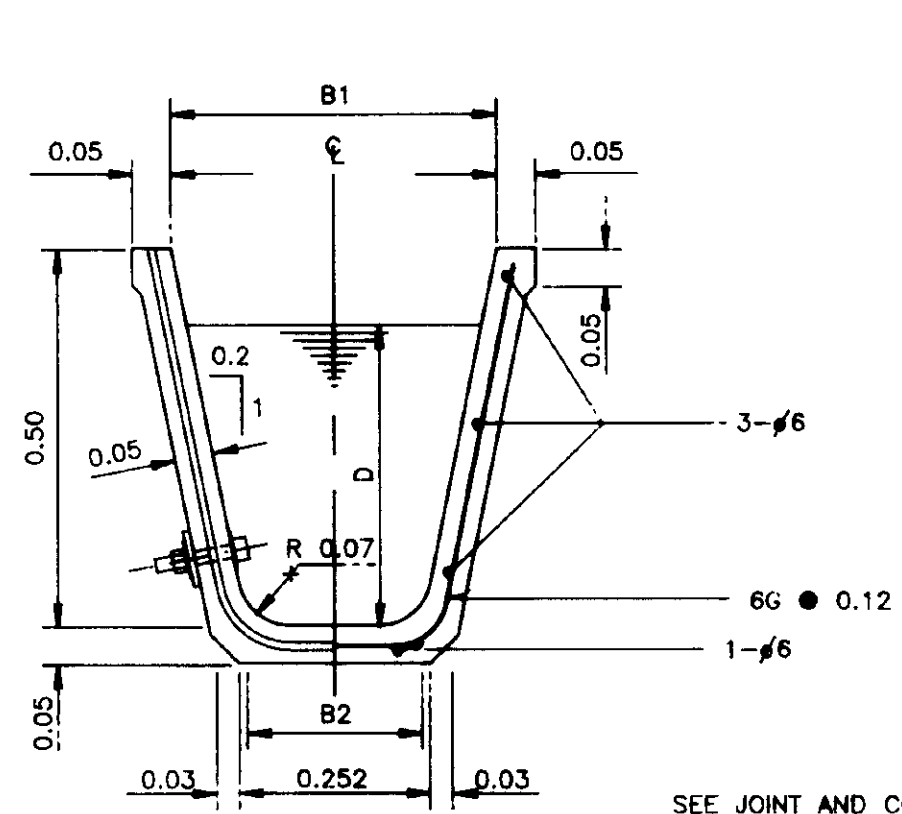
REFERENCE DRAWING

1. TYPICAL FOR U-SHAPE PLANS SECTIONS AND DETAILS. DWG. NO.145103

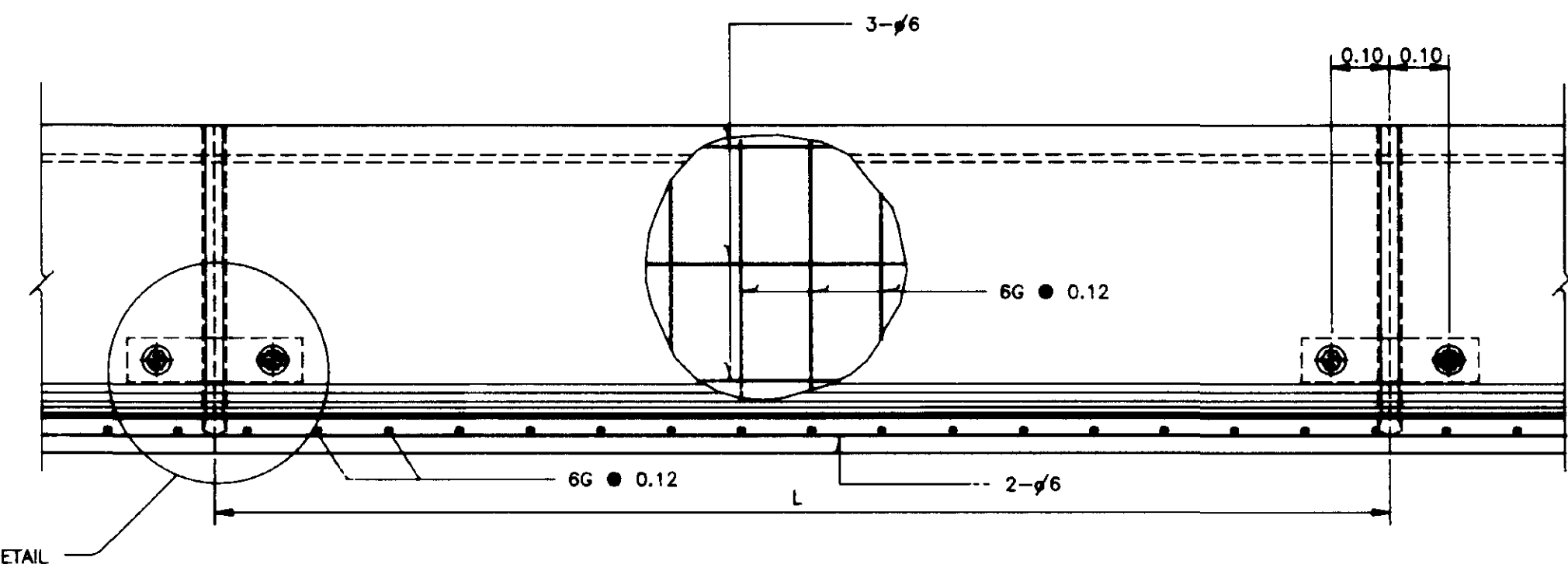
ROYAL IRRIGATION DEPARTMENT										
ON-FARM IRRIGATION SYSTEM										
TYPICAL SECTIONS FOR U-SHAPE										
TYPE U1,U2,U3										
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DRAWN	V. Rungtong				REVIEWED	B. Rungtong				DD.
TRACED	V. Rungtong				RECOMMENDED	S. Rungtong				DD.
CHECKED	S. Rungtong				APPROVED	S. Rungtong				DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION	ON-FARM DESIGN BRANCH	145102	



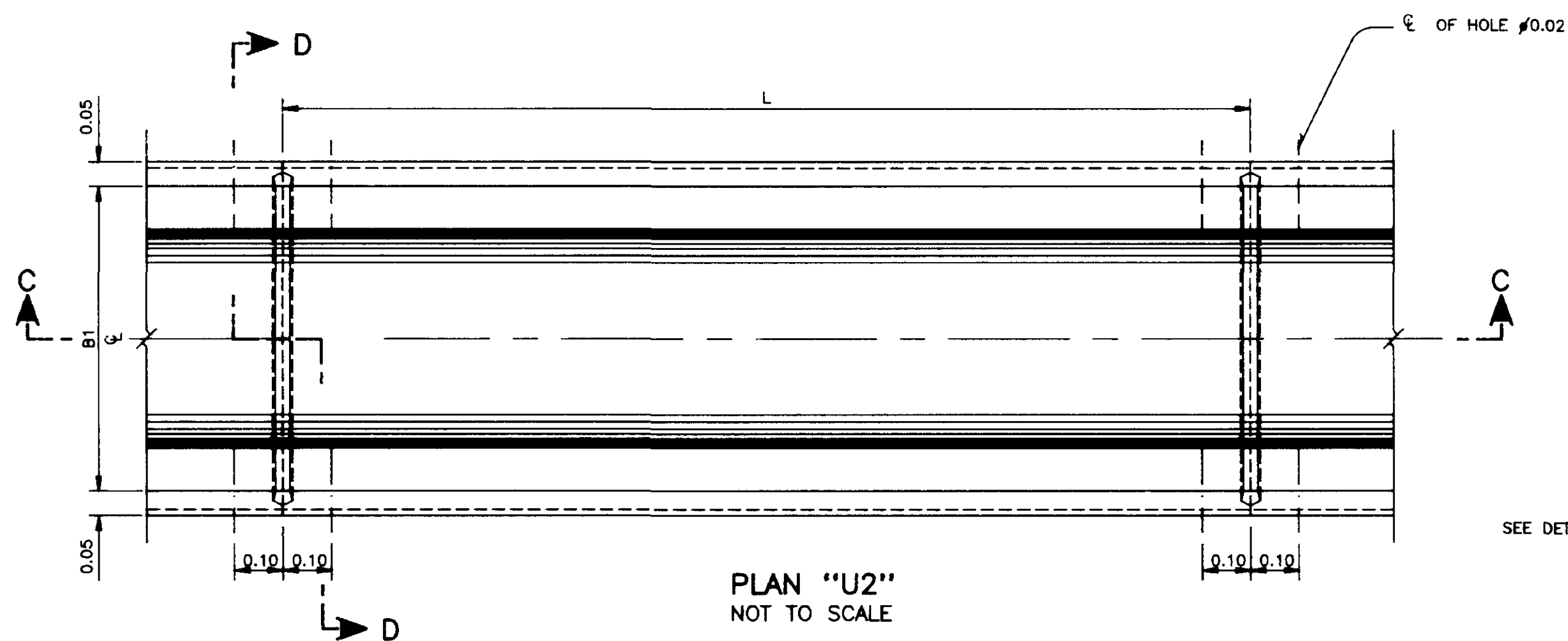
PLAN "U1"
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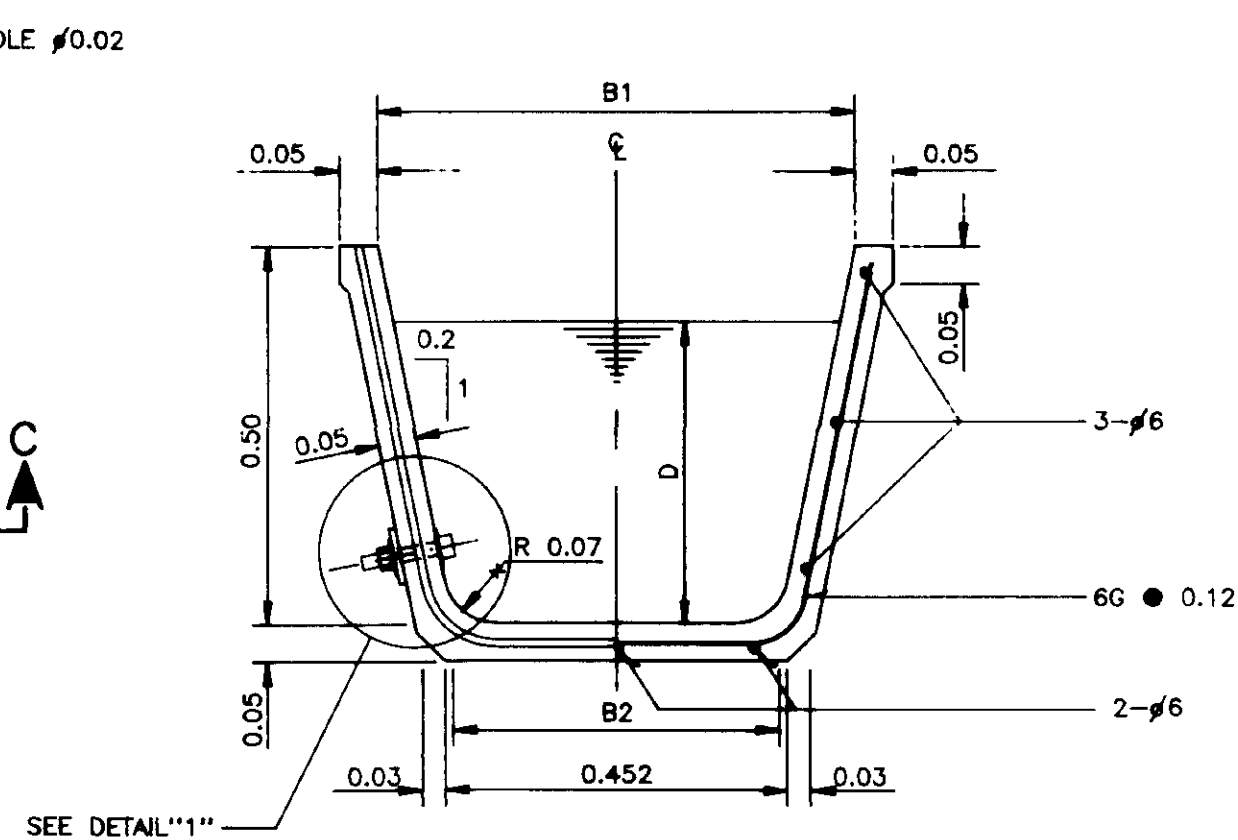
SECTION B-B
NOT TO SCALE



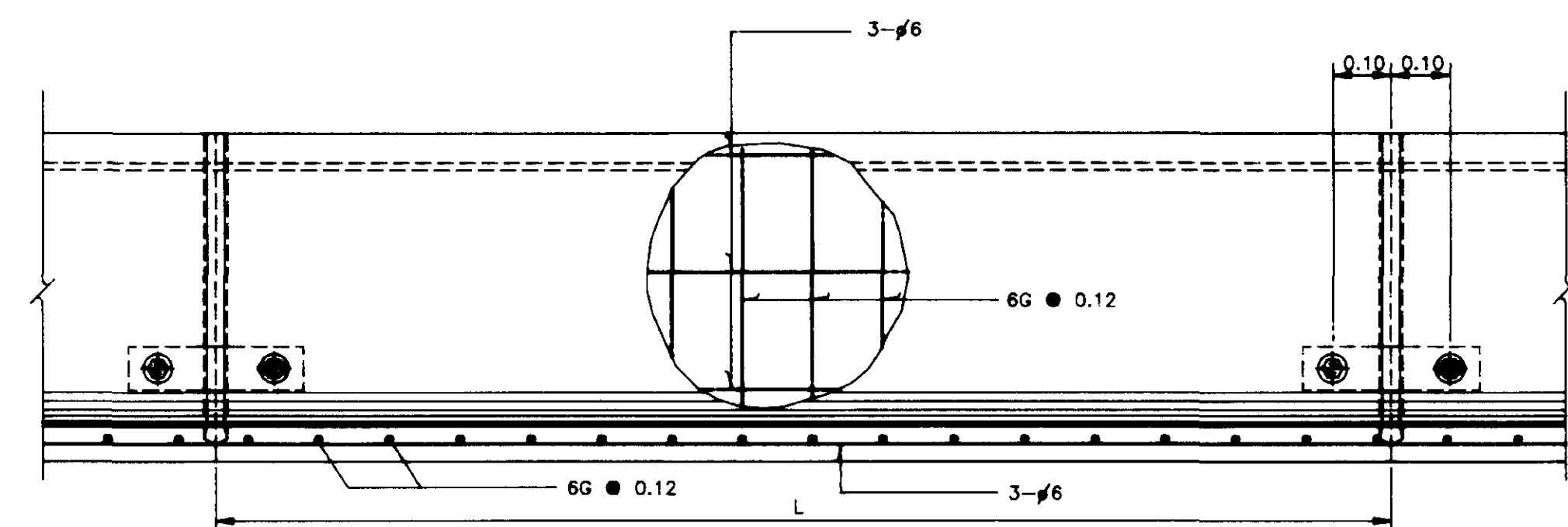
SECTION A-A
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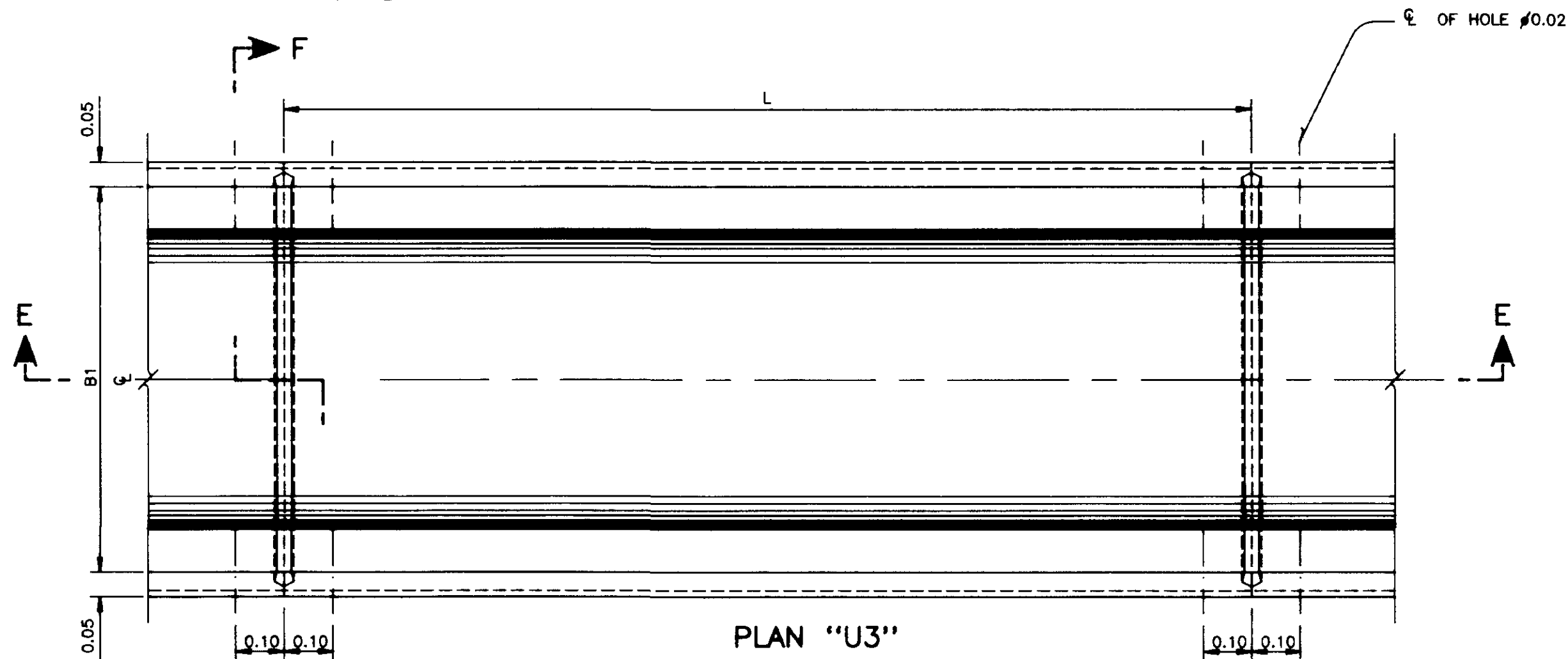
PLAN "U2"
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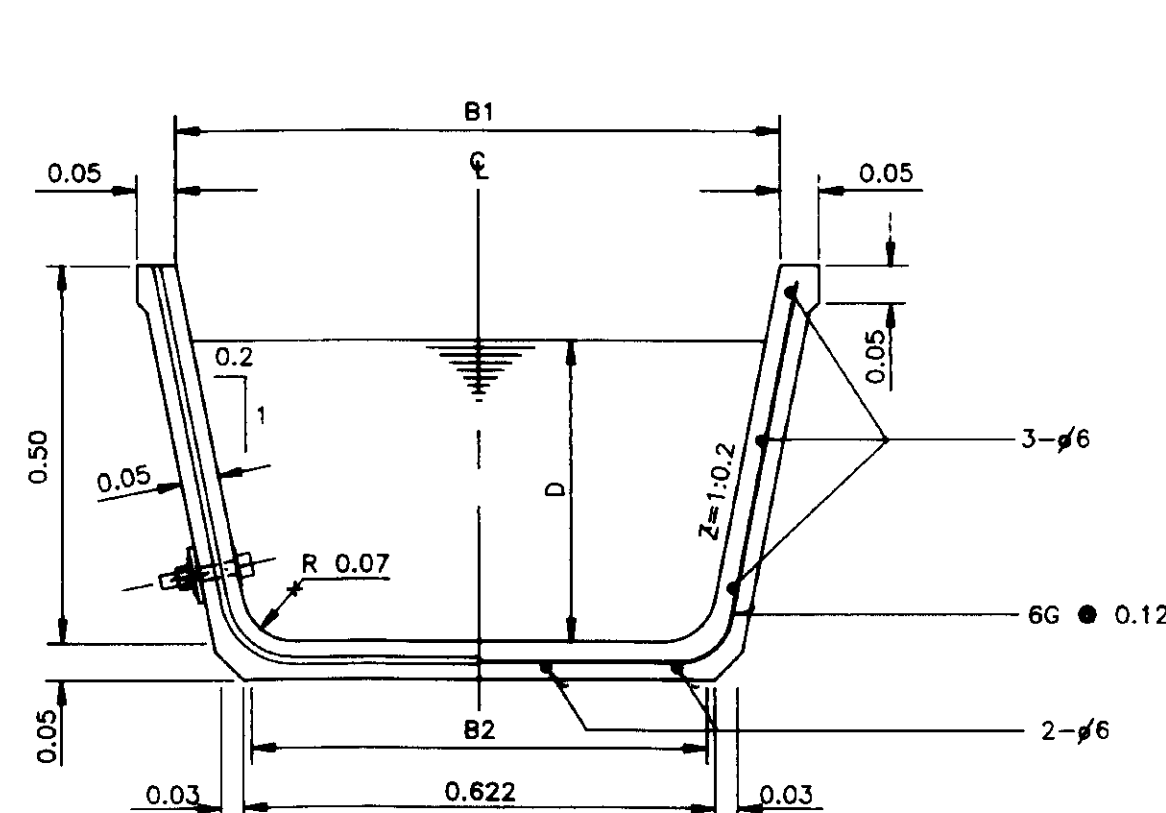
SECTION D-D
NOT TO SCALE



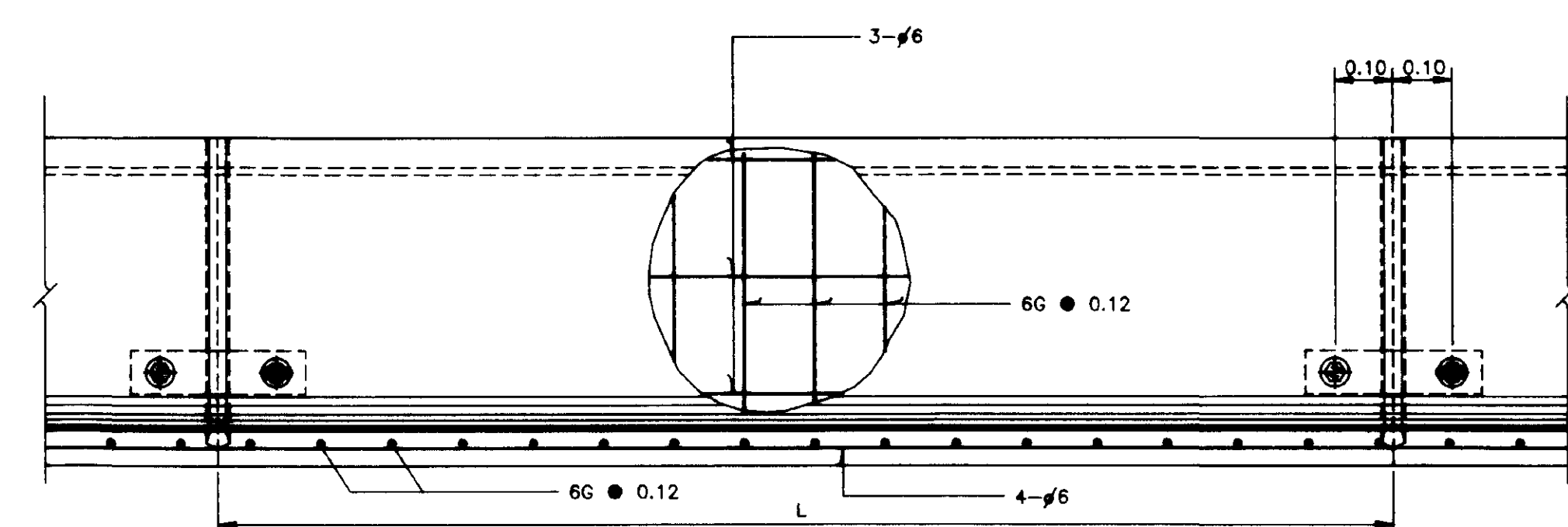
SECTION C-C
NOT TO SCALE



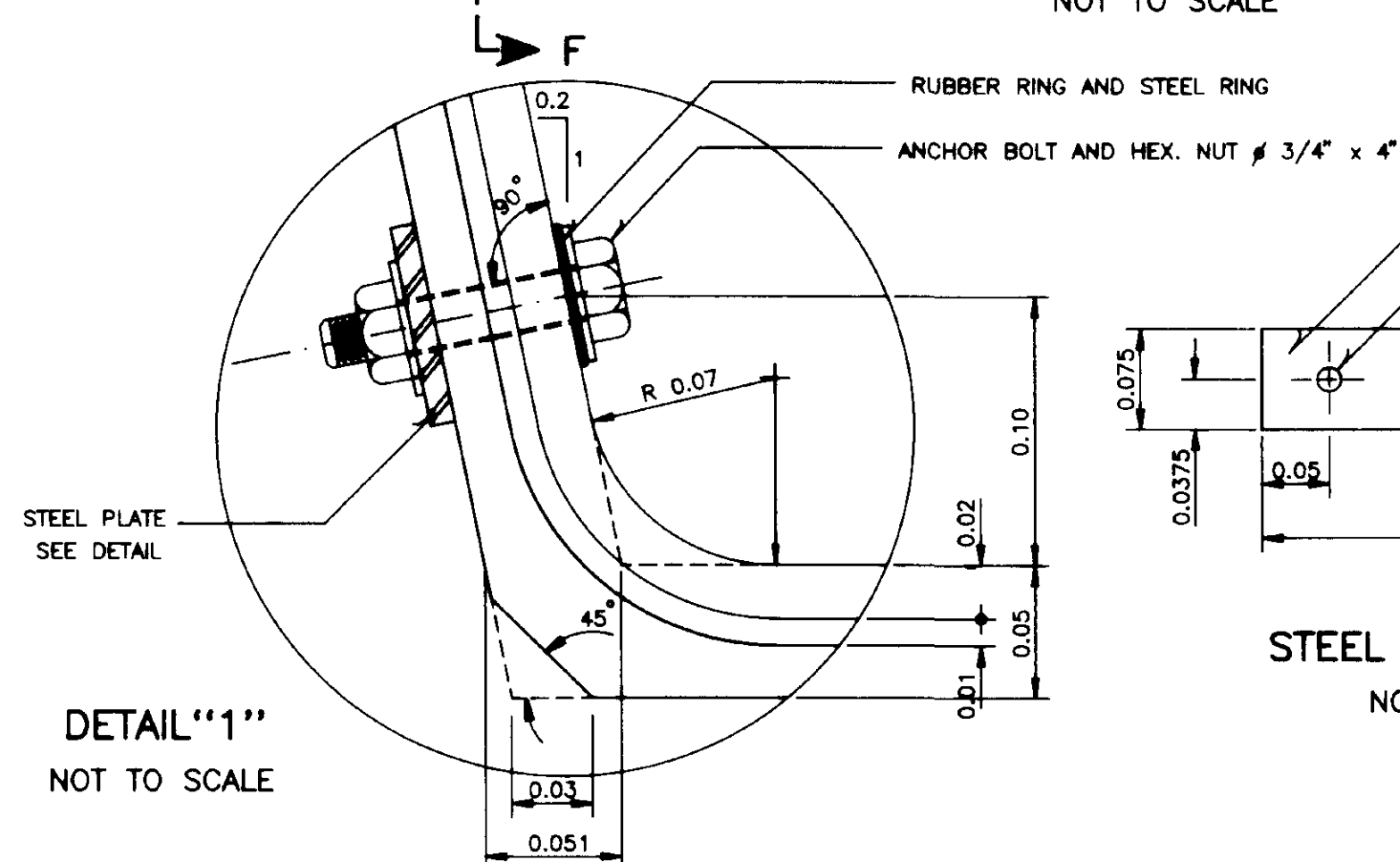
PLAN "U3"
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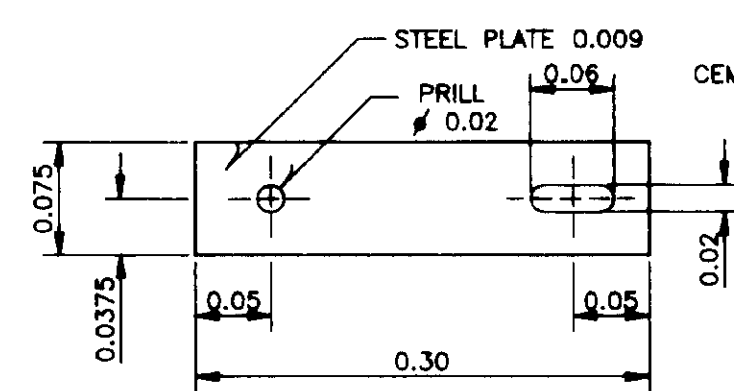
SECTION F-F
NOT TO SCALE



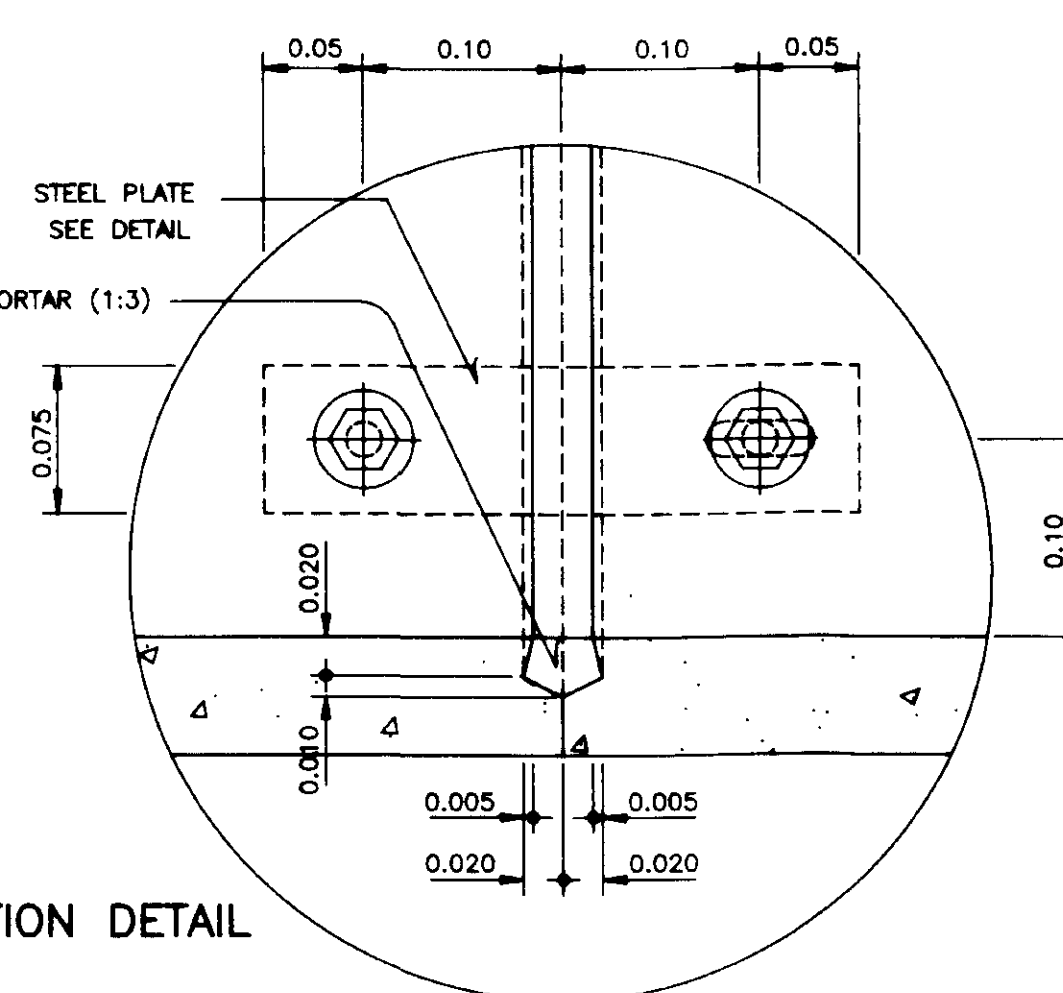
SECTION E-E
NOT TO SCALE



DETAIL "1"
NOT TO SCALE



STEEL PLATE DETAIL
NOT TO SCALE



JOINT AND CONNECTION DETAIL
NOT TO SCALE

NOTES

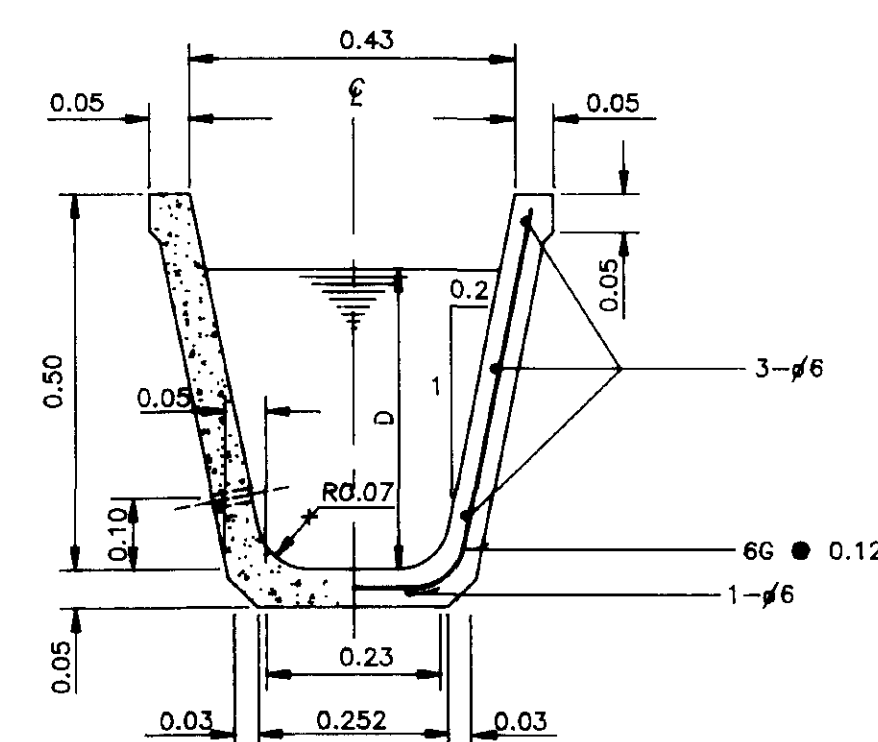
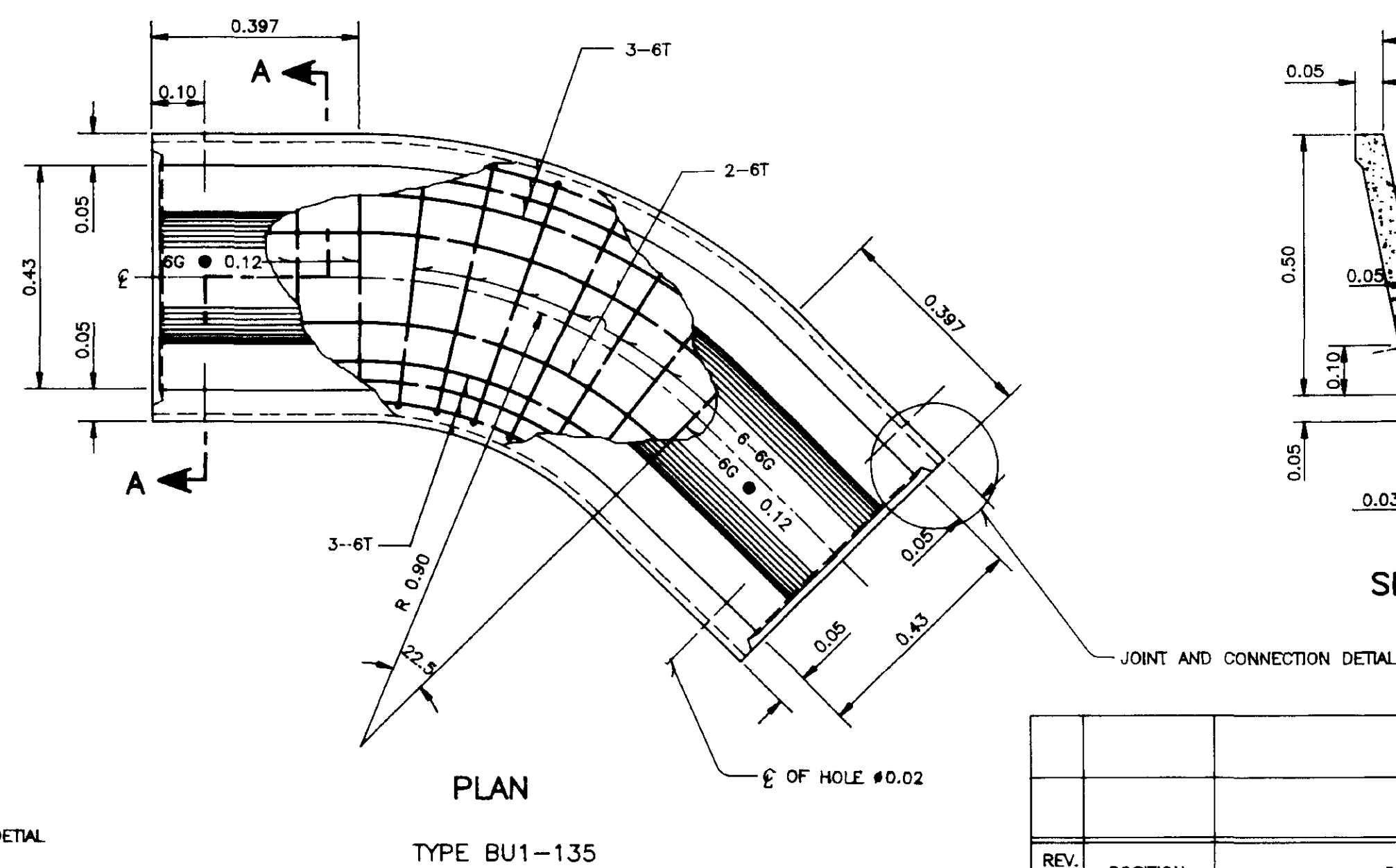
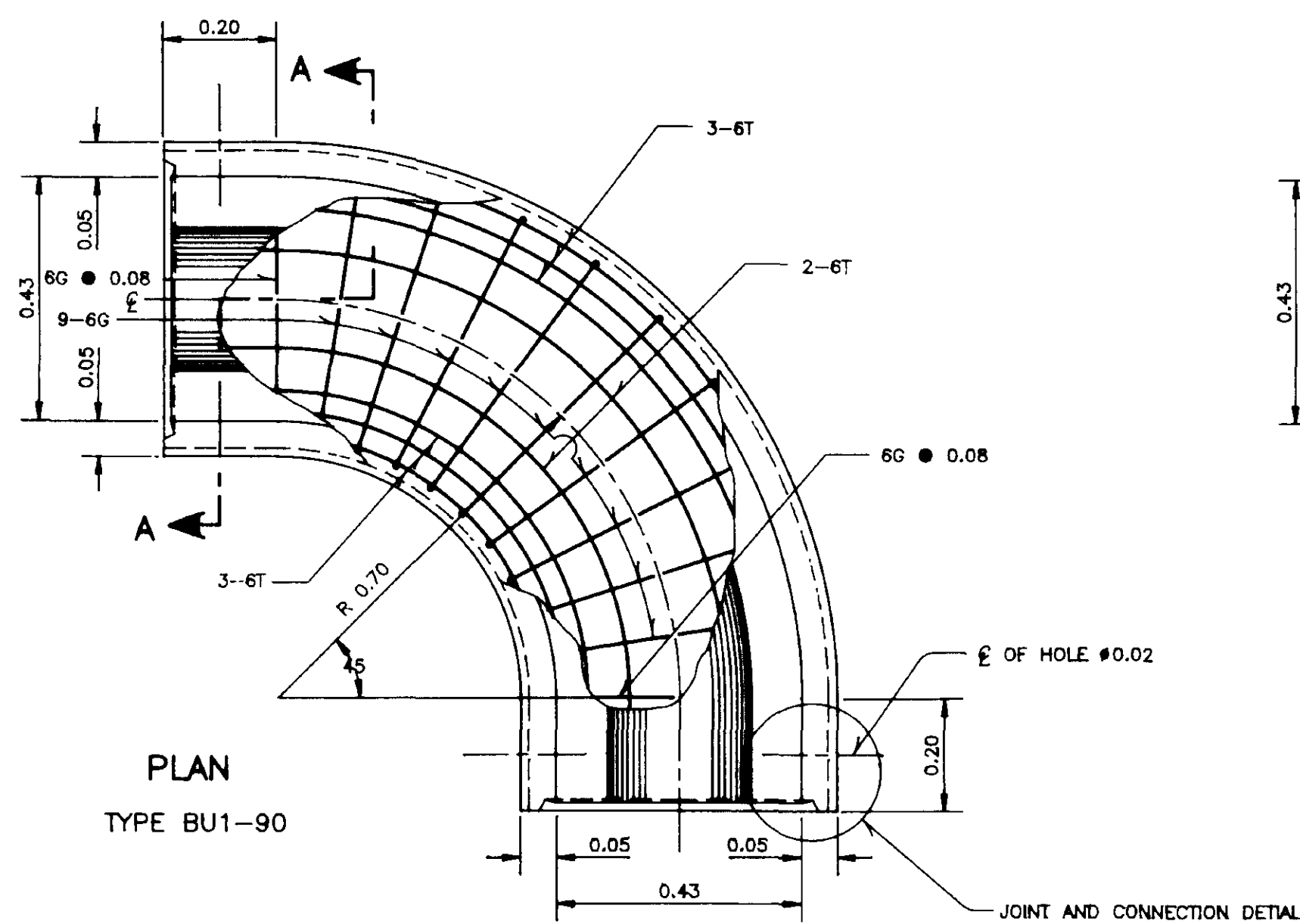
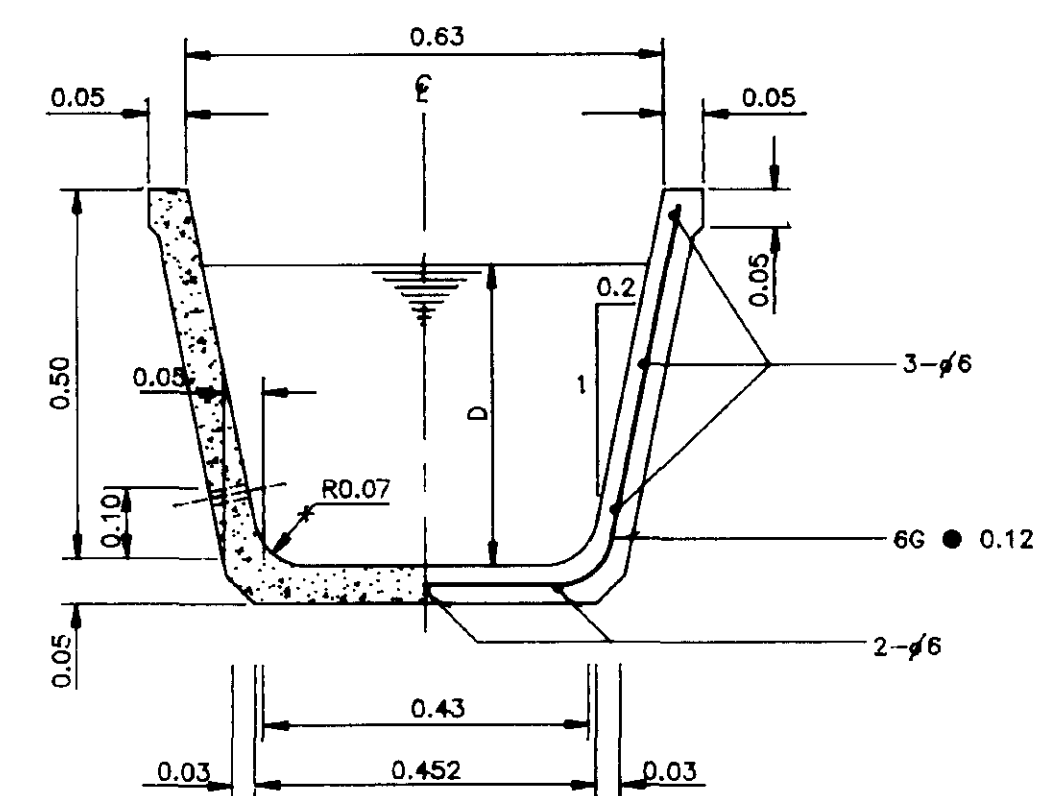
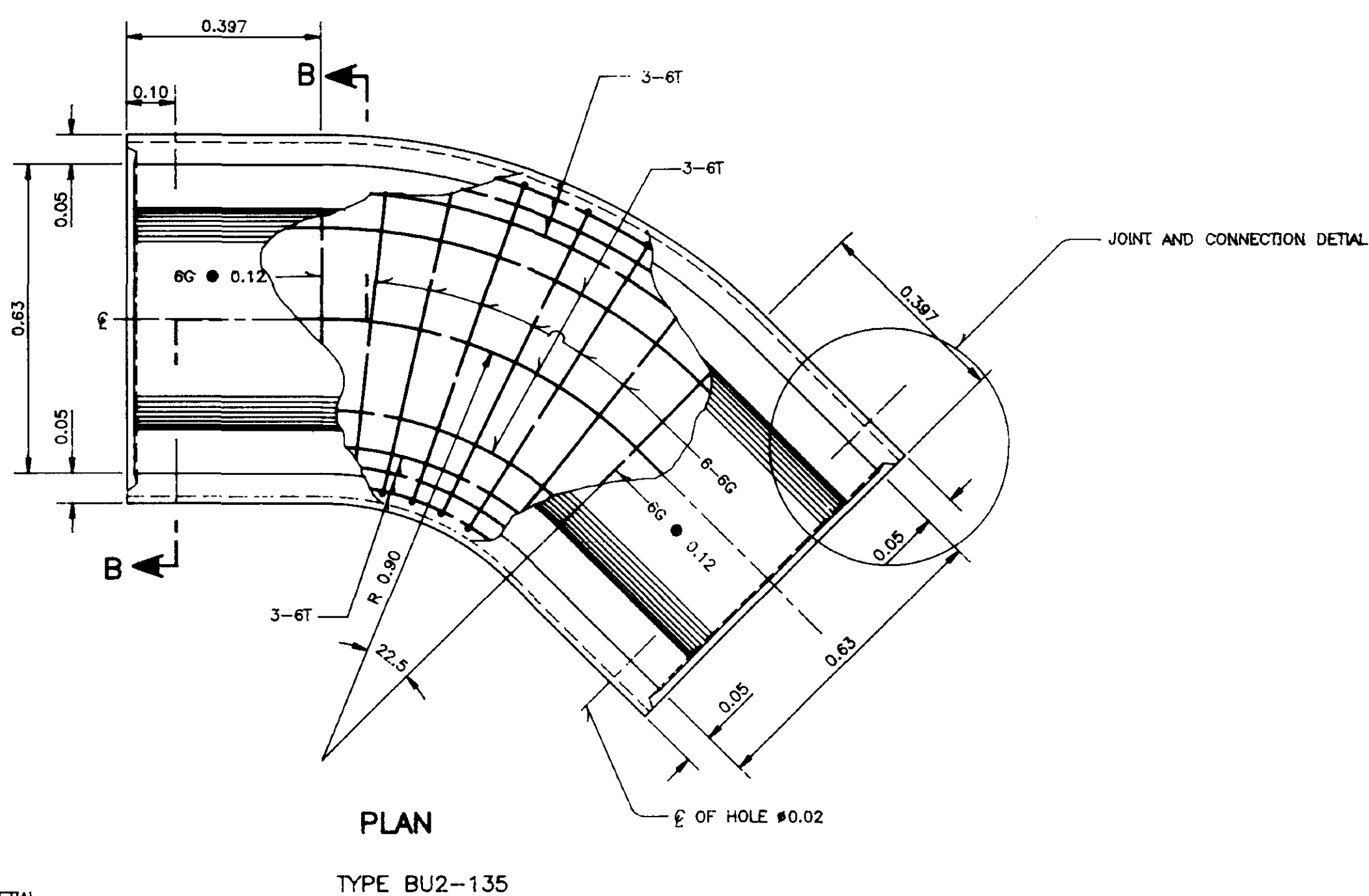
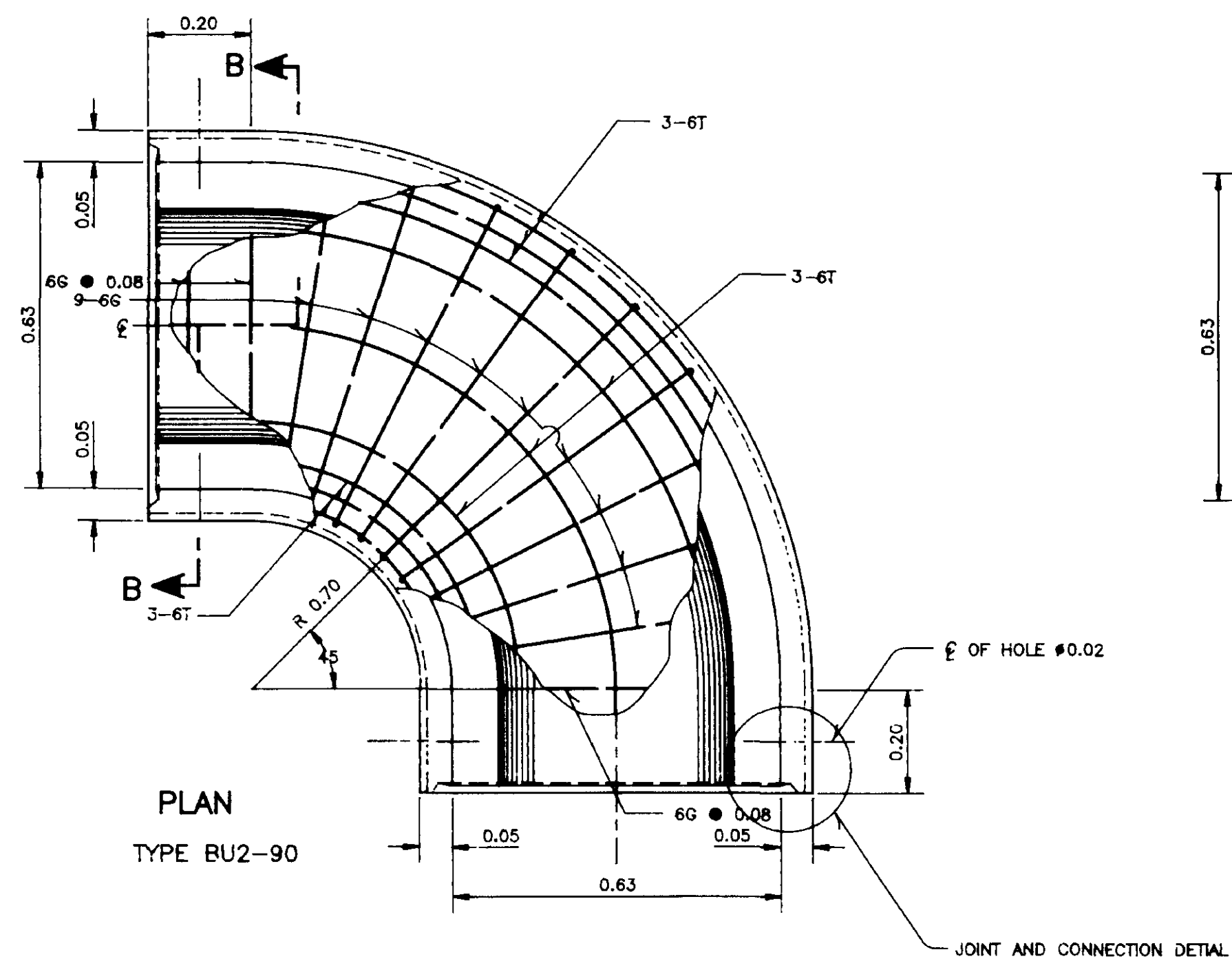
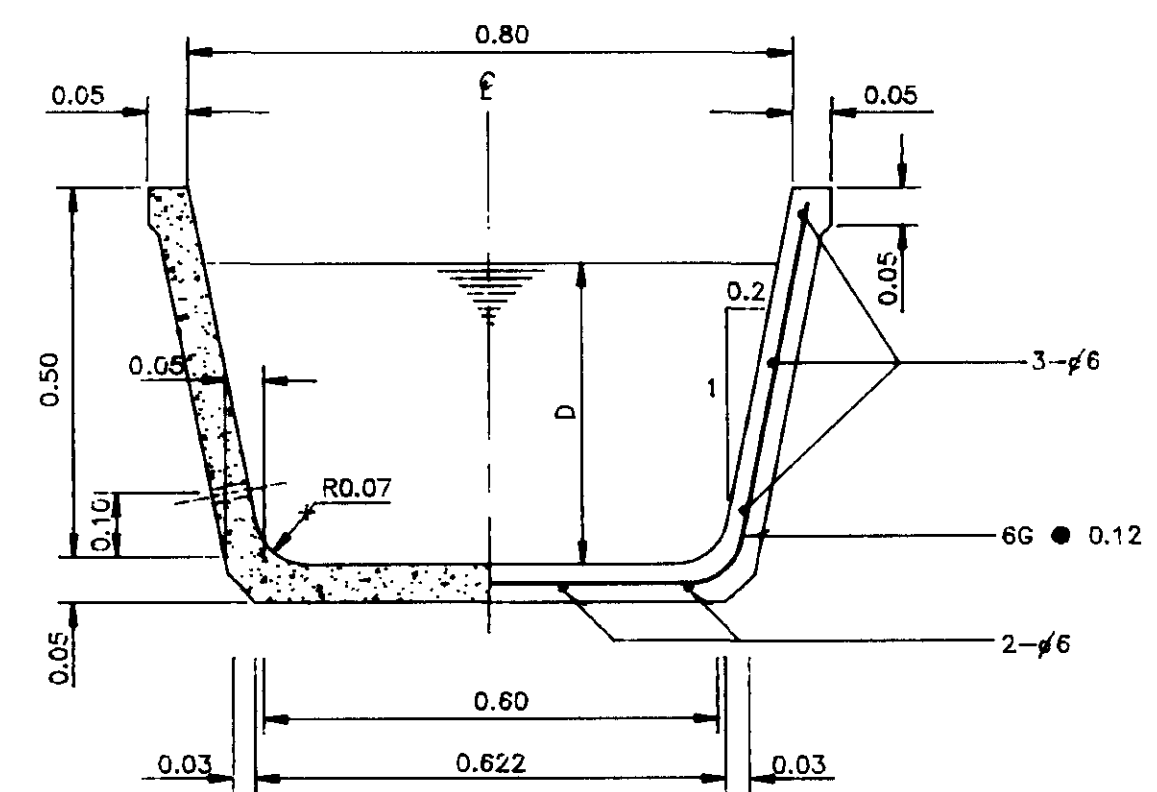
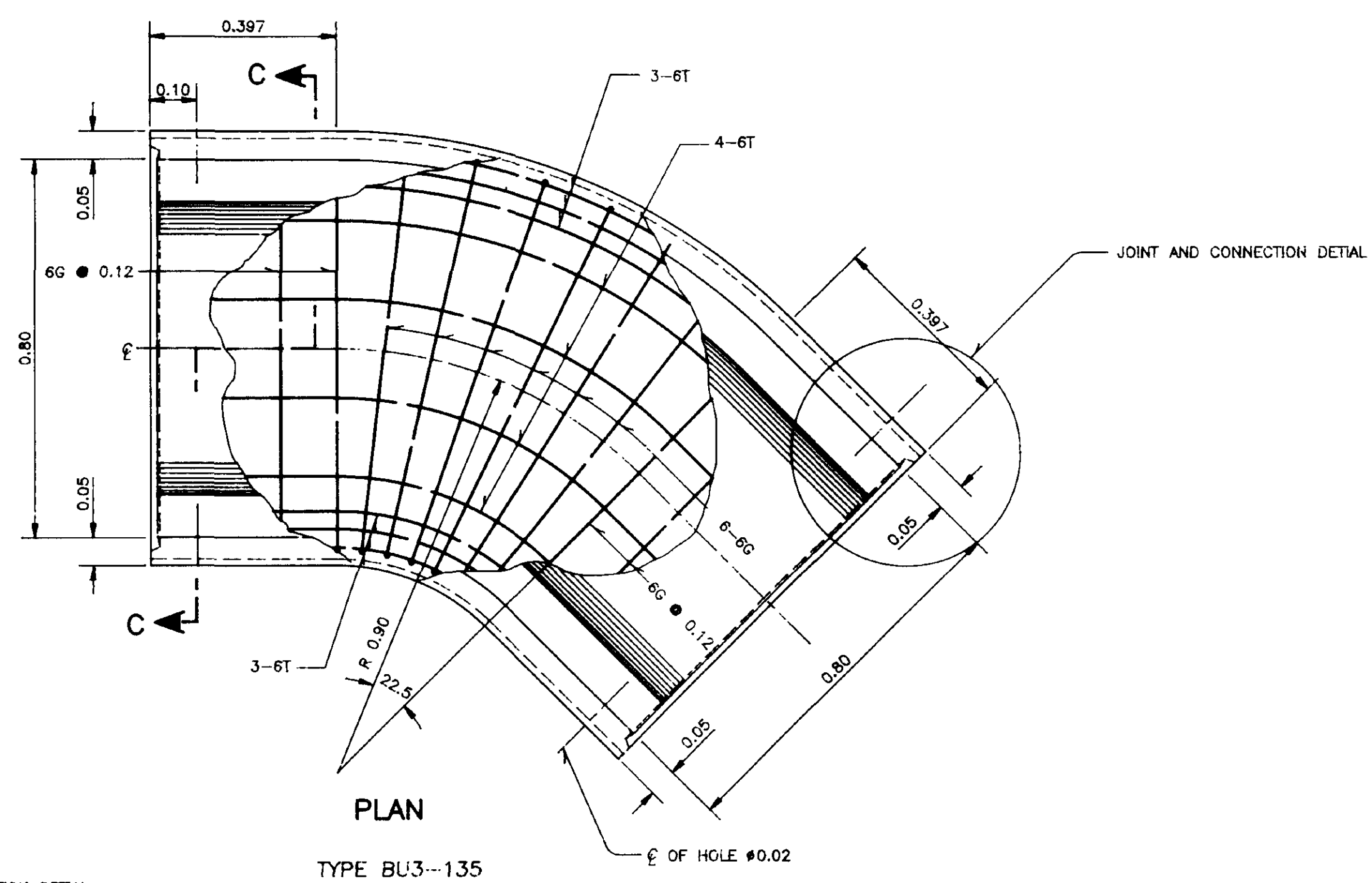
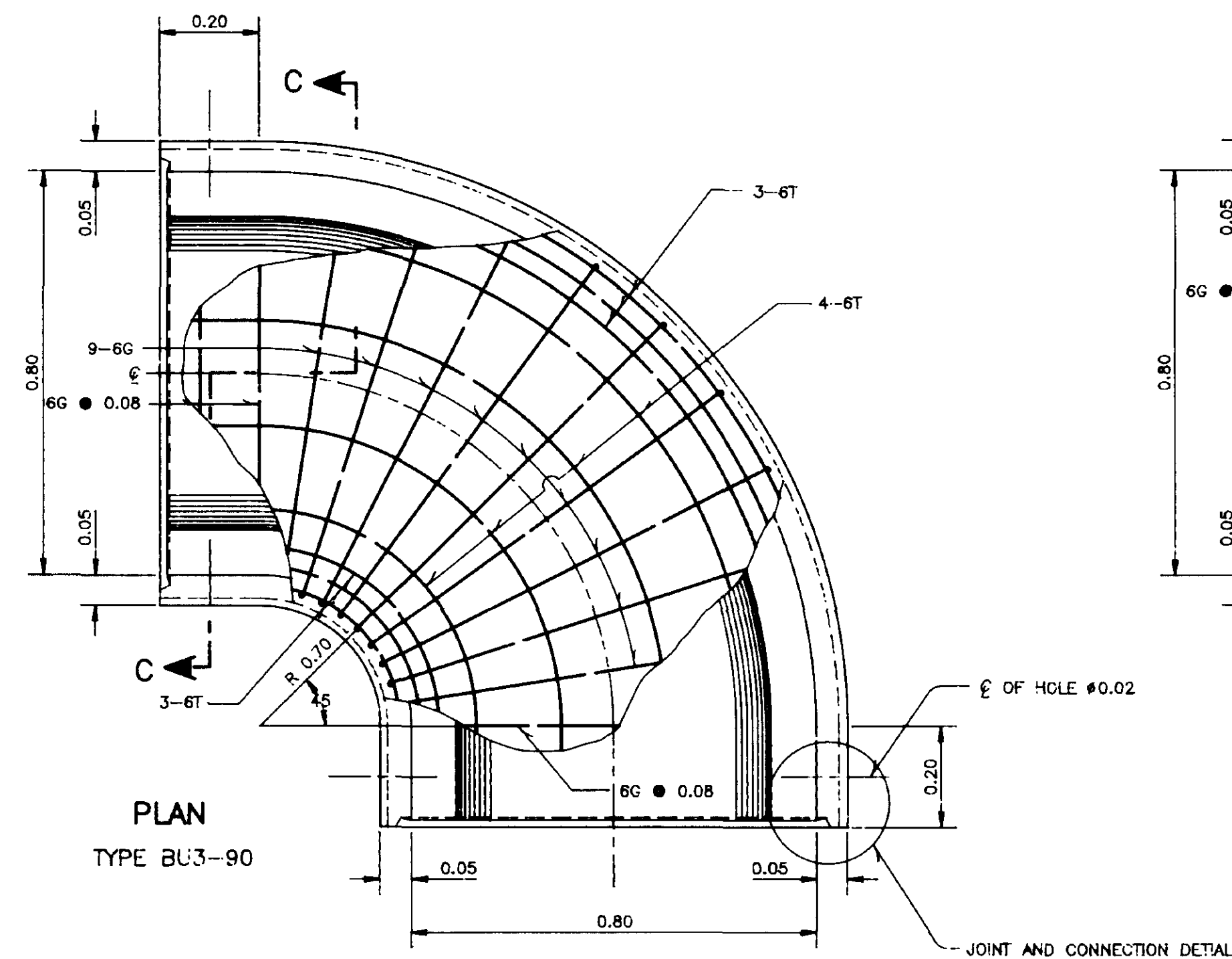
1. GENERAL NOTES FOR U-SHAPE. DWG. NO.145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE. DWG. NO.145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
5. NORMALLY USED L= 2.00m. EXCEPT USED L= 1.00m. TO ADJUST SUITABLE THE TOPOGRAPHY.
6. ALL STEEL SURFACES SHALL BE PAINTED, RUST-RESISTANCE PAINT SHALL BE APPLIED IN ONE COAT AND FINISH OIL COLOUR PAINT SHALL BE APPLIED IN TWO COATS.

REFERENCE DRAWING

1. TYPICAL SECTION FOR U-SHAPE. DWG. NO.145102

REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION	ON-FARM DESIGN BRANCH	2.00.20	DATE	145103
							DESIGNED	T. Rungtark, Y. Pansavak	SUBMITTED	Y. Pansavak	CS.
							DRAWN	Y. Pansavak	REVIEWED	Y. Pansavak	DD.
							TRACED	Y. Pansavak	RECOMMENDED	Y. Pansavak	DD.
							CHECKED	Y. Pansavak	APPROVED	Y. Pansavak	DG.

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL PRECAST CONCRETE
FOR U-SHAPE
PLAN, SECTIONS AND DETAILS



NOTES

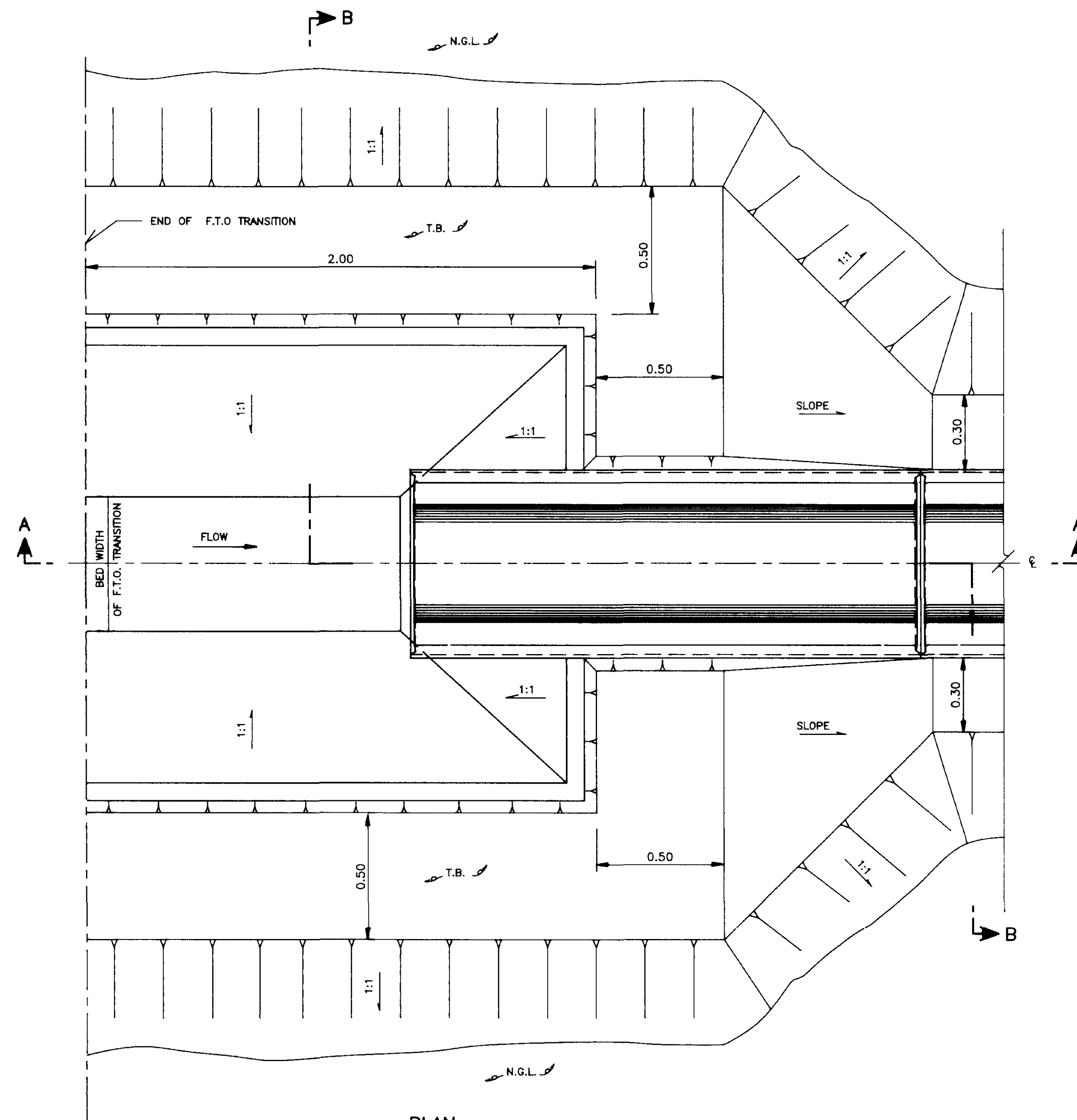
1. GENERAL NOTES FOR U-SHAPE.....DWG. NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE.....DWG. NO. 145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWINGS

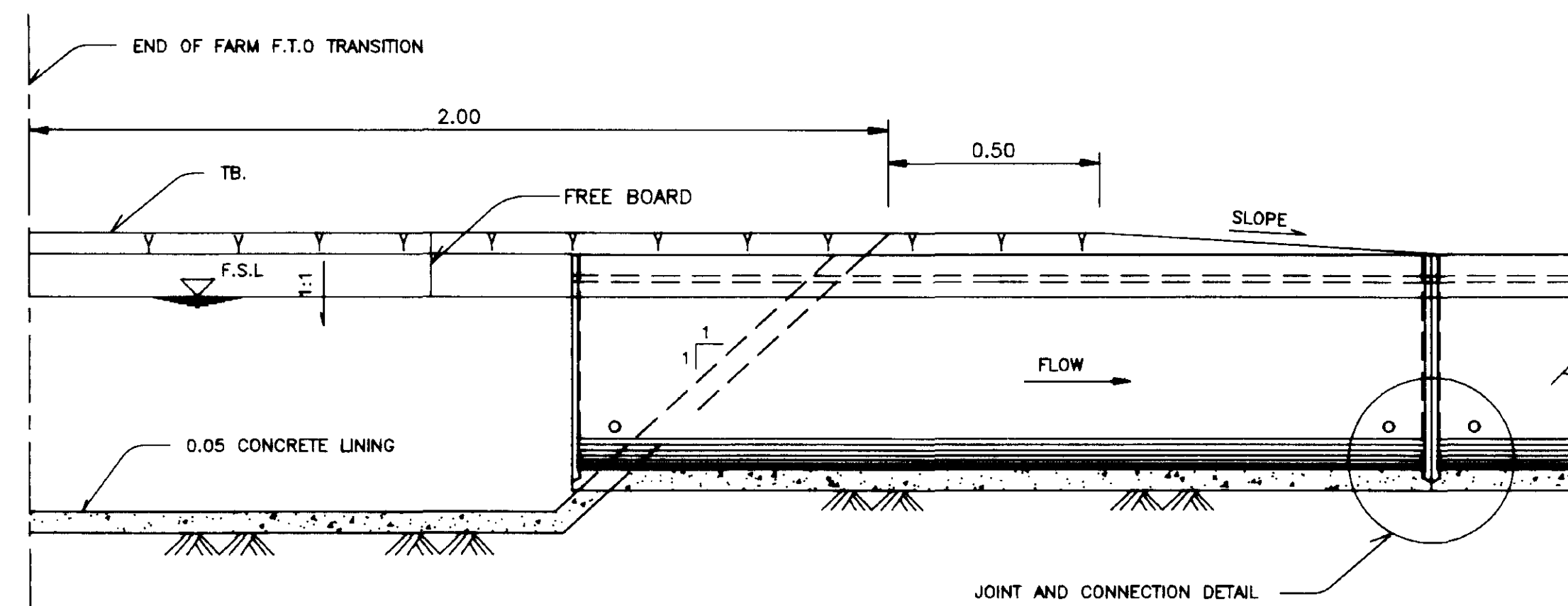
1. JOINT AND CONNECTION DETAIL.....DWG. NO. 145103

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL PRECAST CONCRETE BEND
FOR U-SHAPE
PLAN, SECTION AND DETAILS

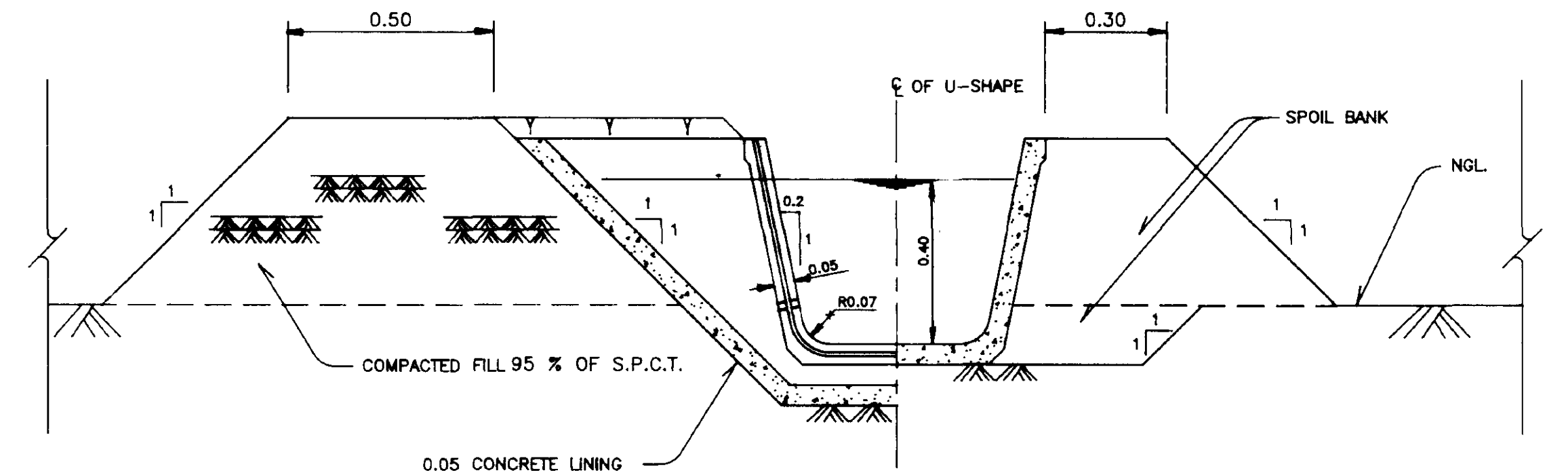
DESIGNED	2	SUBMITTED	Asimt Sooh-ain	CS.
DRAWN	2	REVIEWED	B. O. Hassan	DD.
TRACED	URA I	RECOMMENDED	Abdulla Vardana	DD.
CHECKED	Asimt Sooh-ain	APPROVED	DD.	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM.
				APPROVED
				DESIGN DIVISION
				ON-FARM DESIGN BRANCH
				DATE
				145104



PLAN
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE

NOTES

1. GENERAL NOTES FOR U-SHAPE ----- DWG.NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE ----- DWG.NO. 145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWINGS

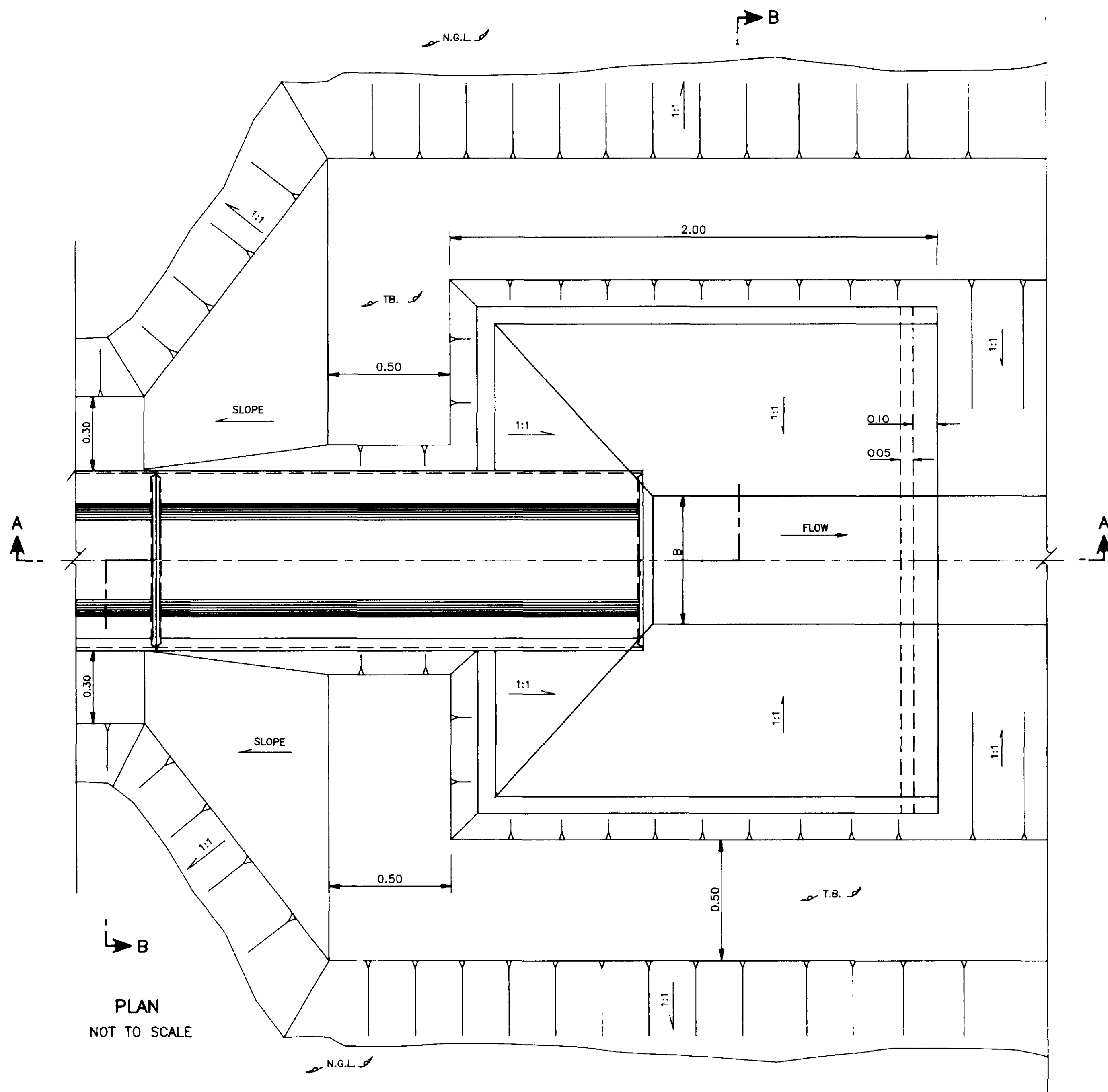
1. JOINT AND CONNECTION DETAIL ----- DWG.NO. 145103

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM

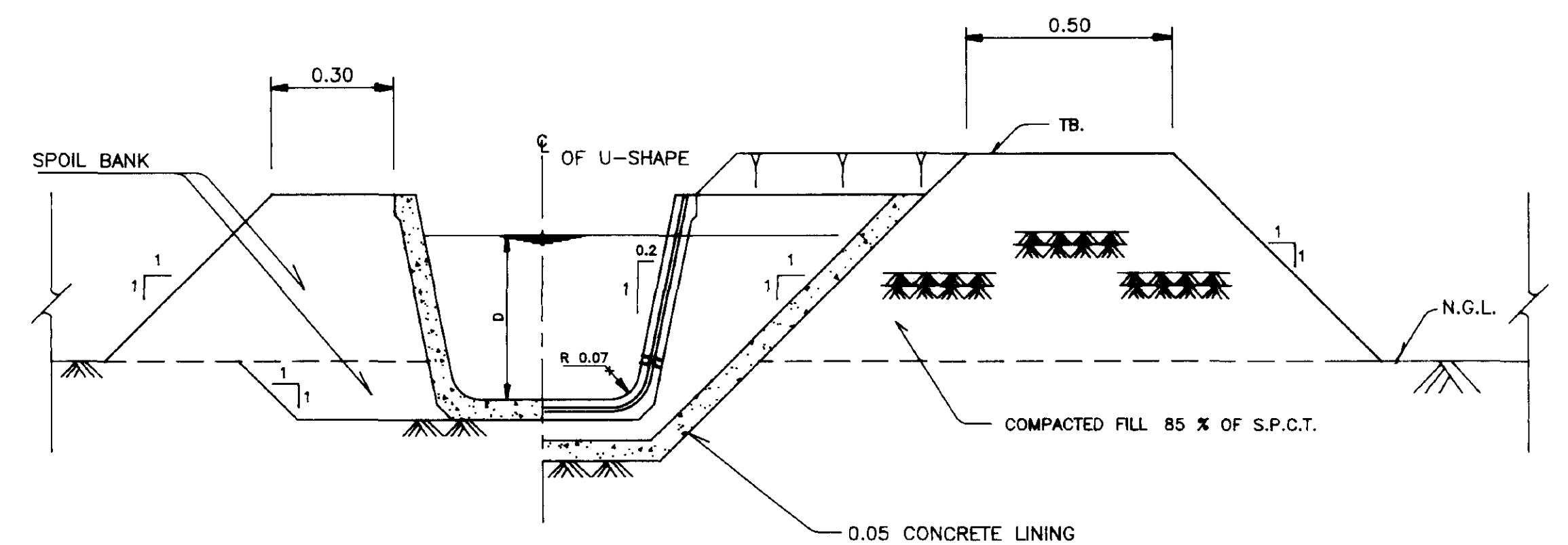
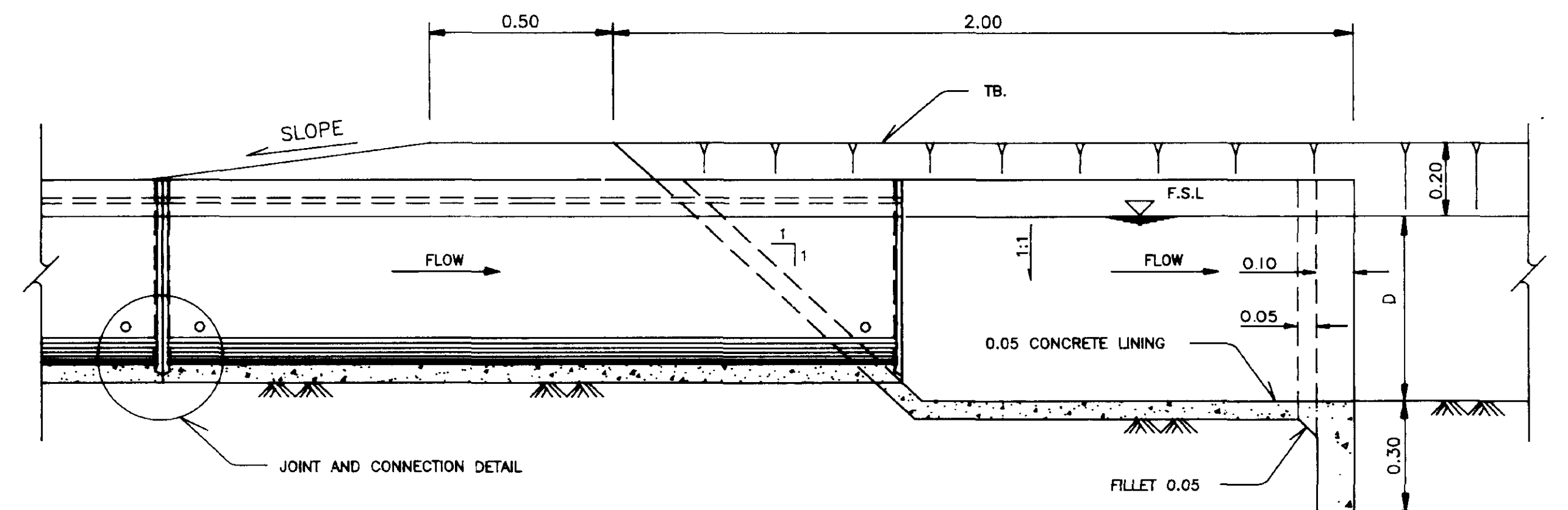
TYPICAL BEGINNING TRANSITION
FOR U-SHAPE

PLAN,SECTION AND DETAILS

							DESIGNED	<i>Vishnu Anguram</i>	SUBMITTED	<i>N. Wangsankul</i>	CS.
							DRAWN	<i>Vishnu Anguram</i>	REVIEWED	<i>B. P. S. A.</i>	DDD
							TRACED	PENRAT SURENAME	RECOMMENDED	<i>Obelia Varet</i>	DD.
							CHECKED	<i>N. Wangsankul</i>	APPROVED	<i>Obelia Varet</i>	DD.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION ON—FARM DESIGN BRANCH	2 MAR. 29...	DATE	145105	



TYPICAL END OF U-SHAPE
TYPE "B"

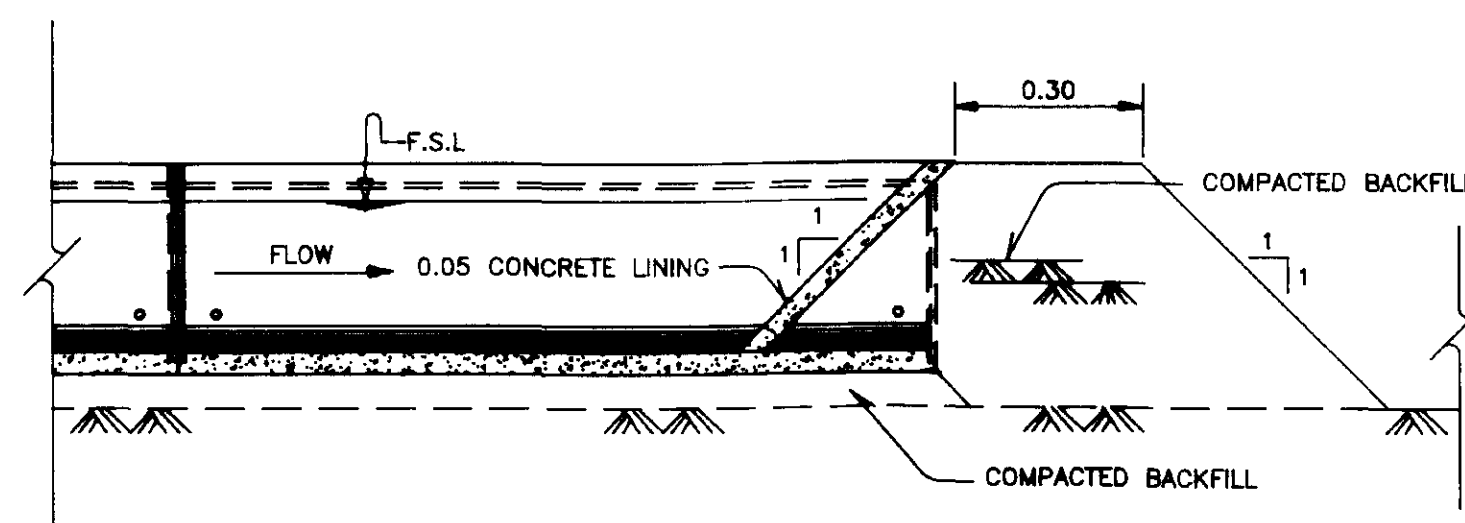
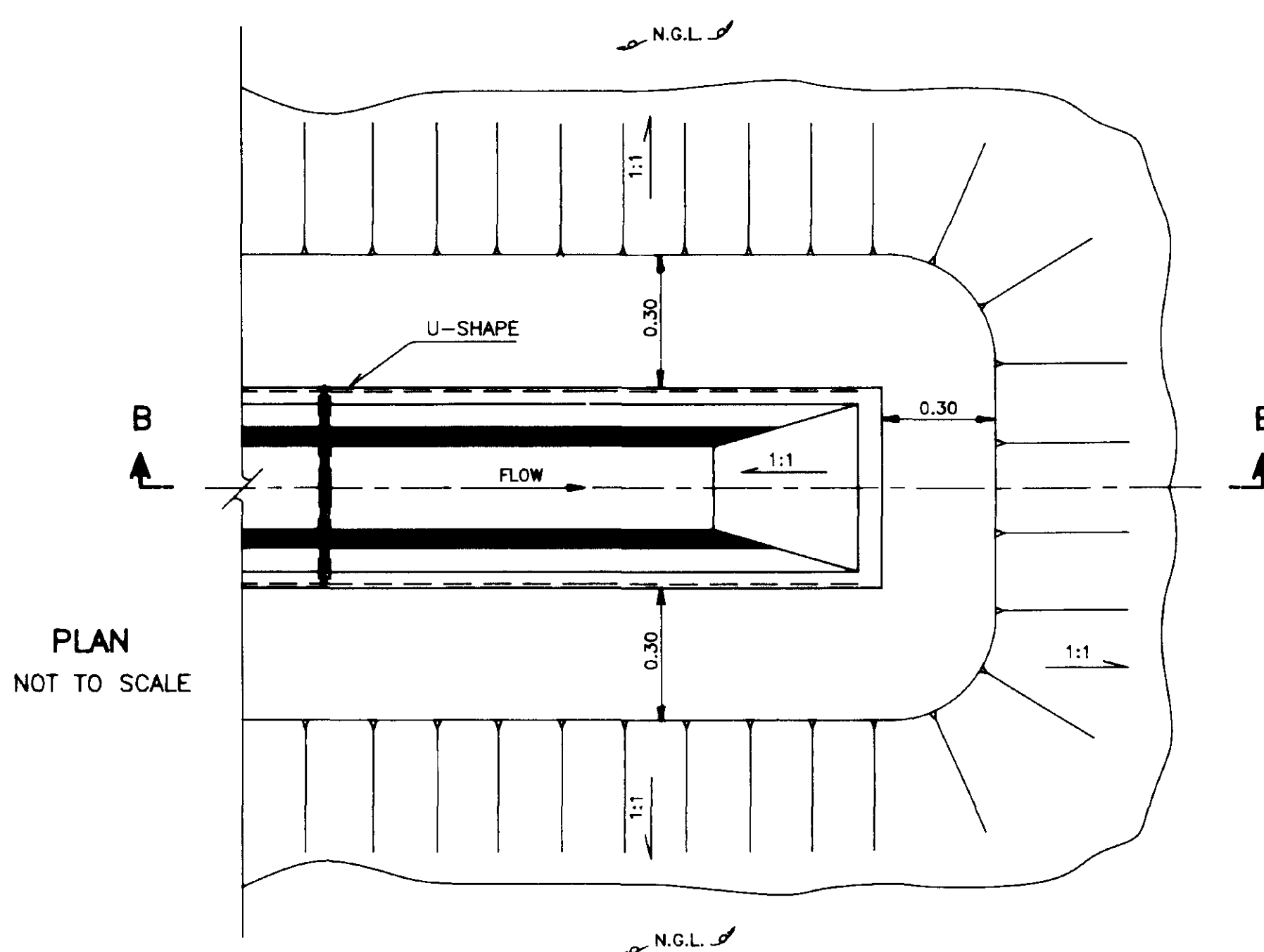


NOTES

1. GENERAL NOTES FOR U-SHAPE ----- DWG.NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE ----- DWG.NO. 145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
5. TYPICAL END OF U-SHAPE TYPE "A" USE FOR CONNECTING TO EARTH DITCH.
6. VALUE OF "B" AND "D" SHOWN IN LONGITUDINAL PROFILE.

REFERENCE DRAWINGS

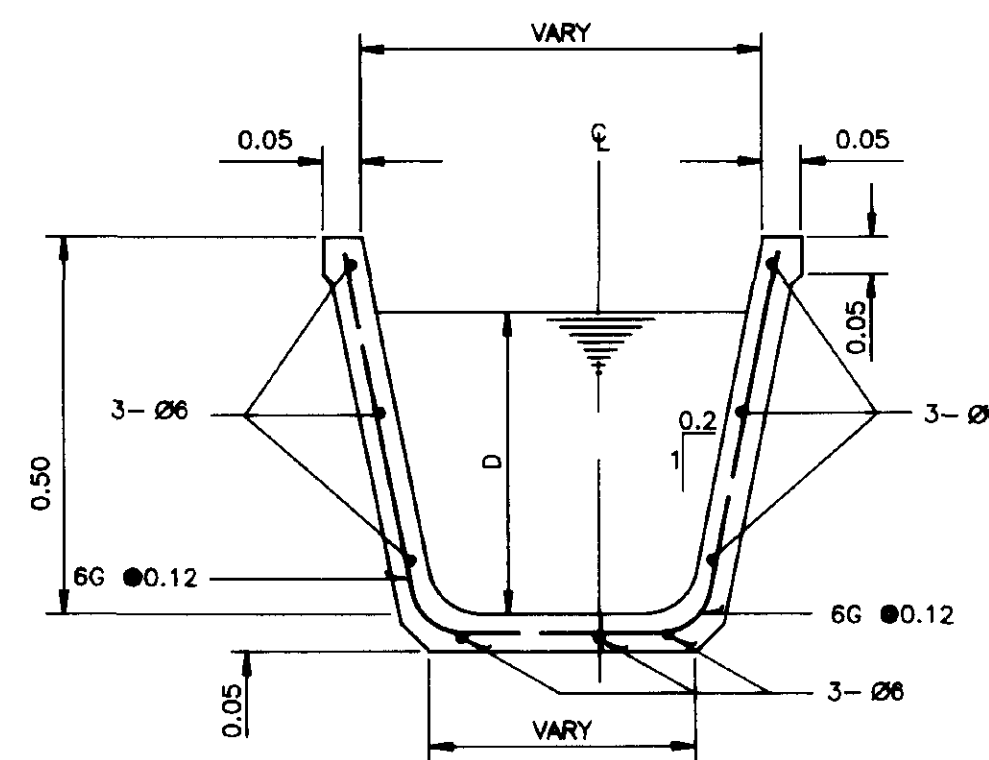
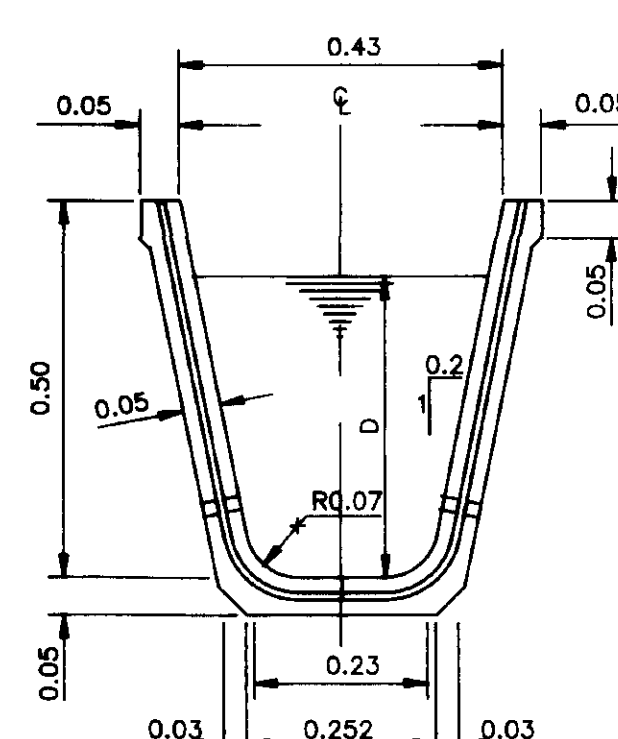
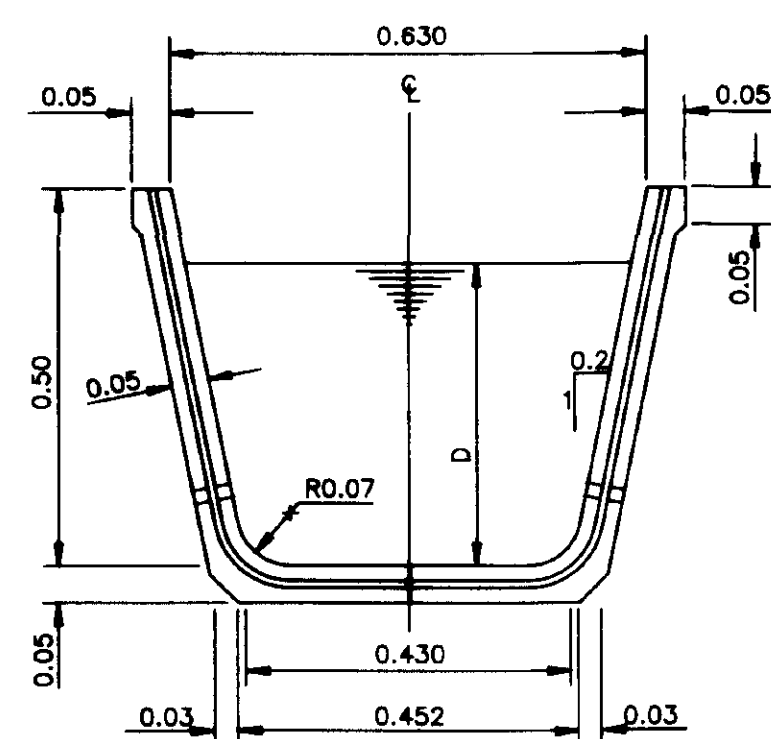
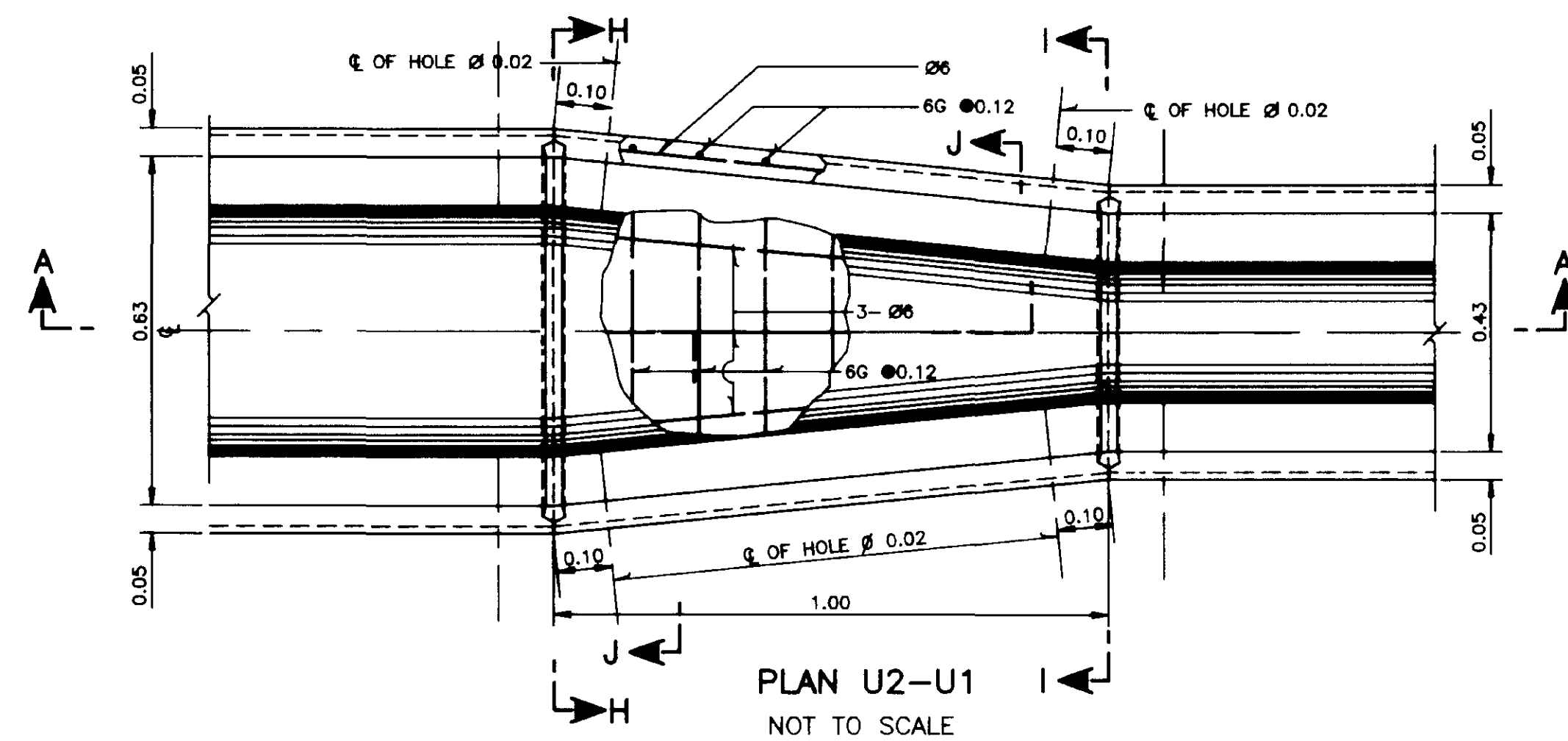
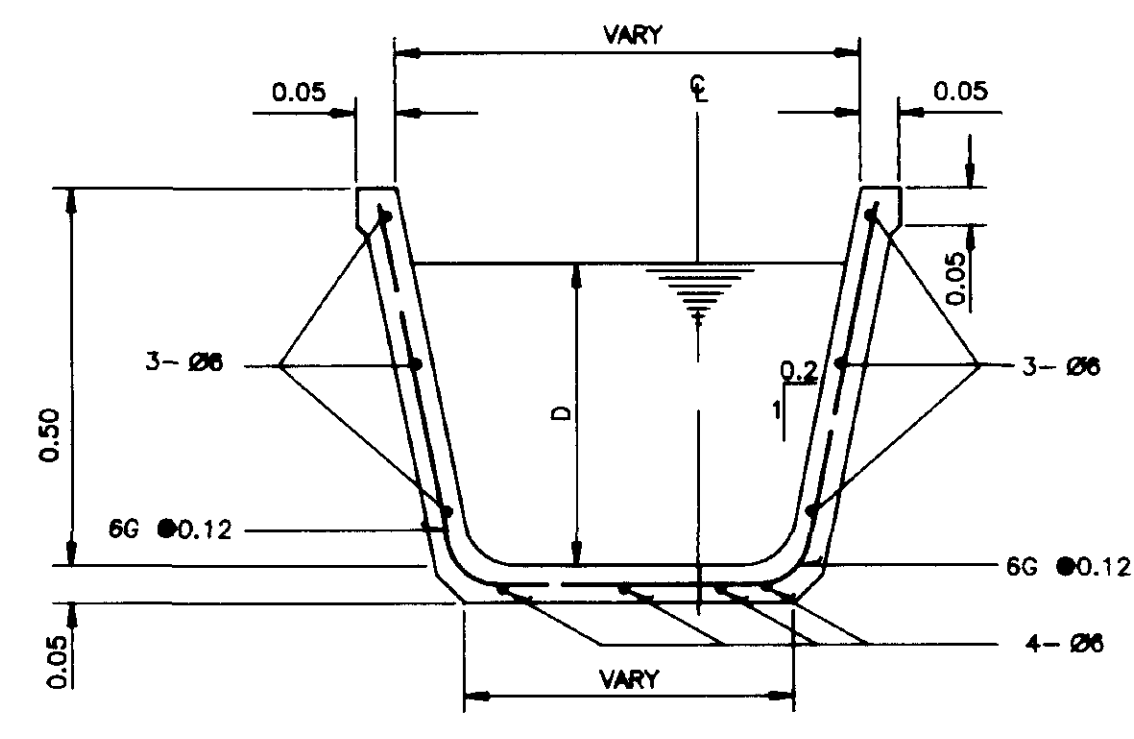
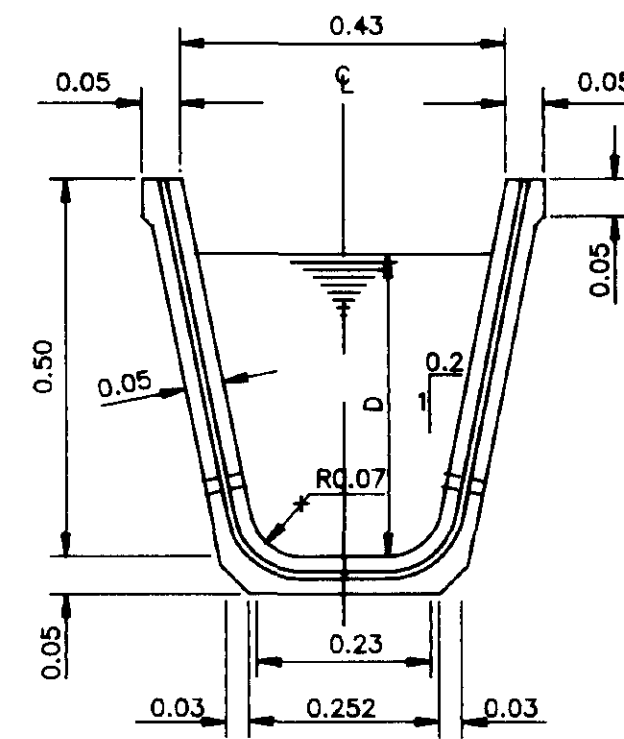
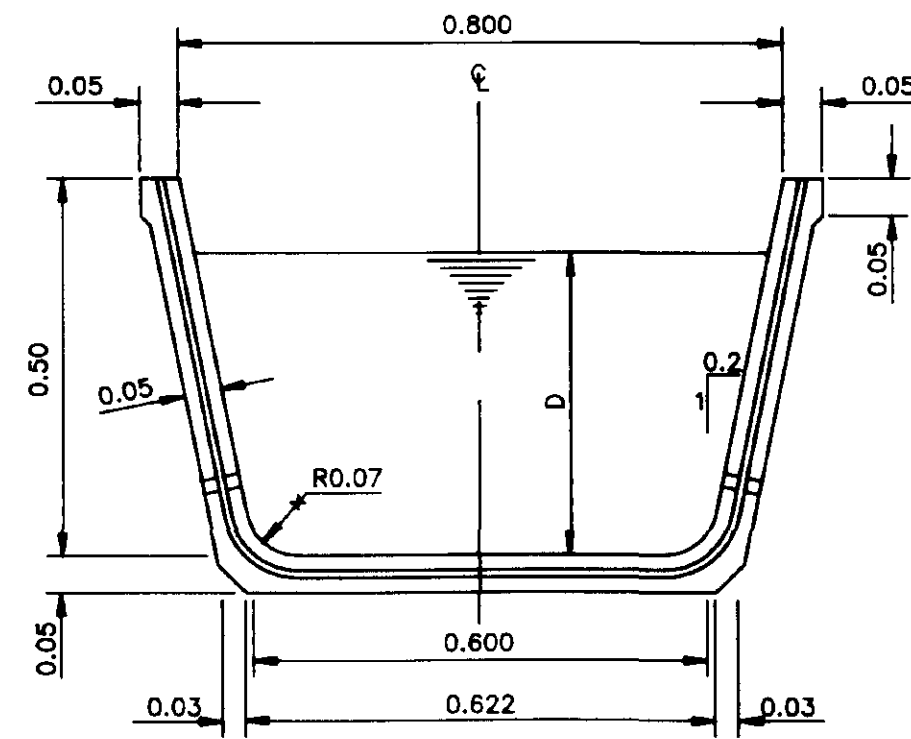
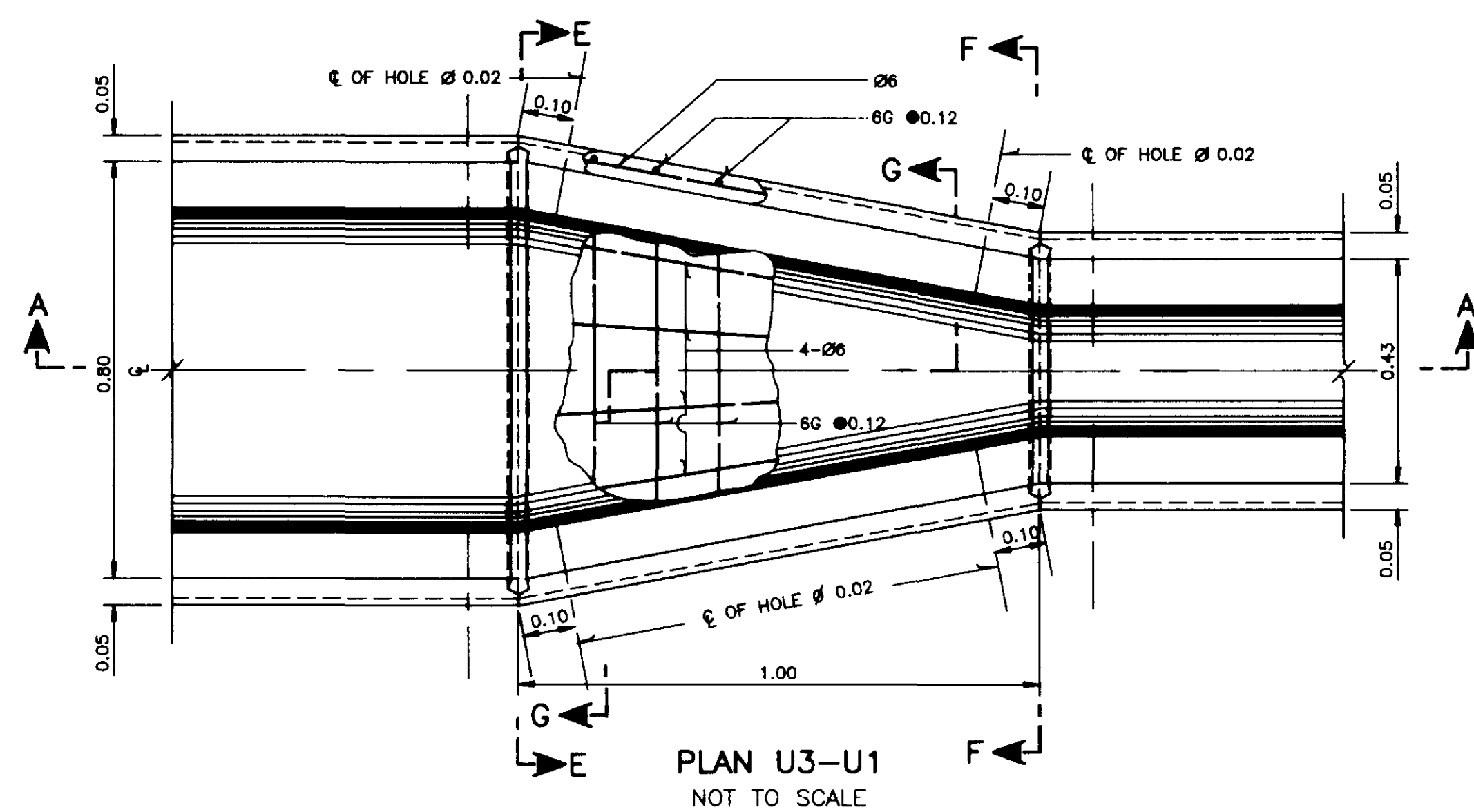
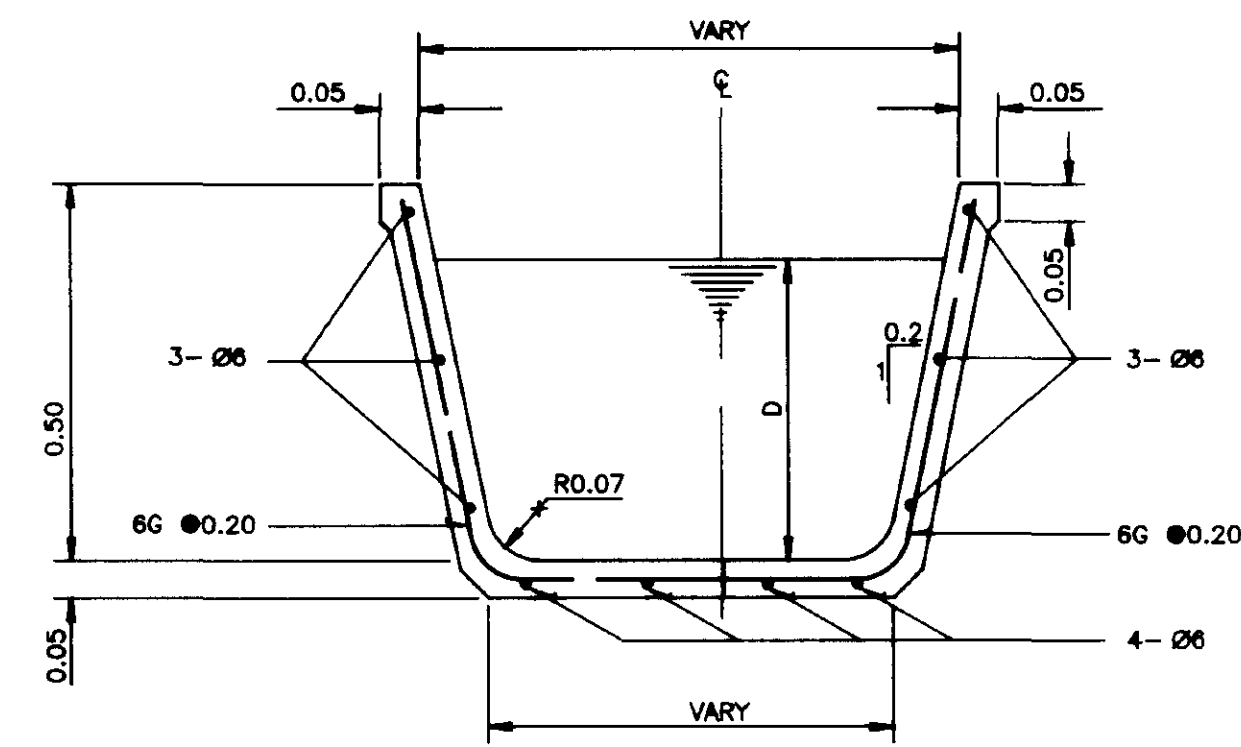
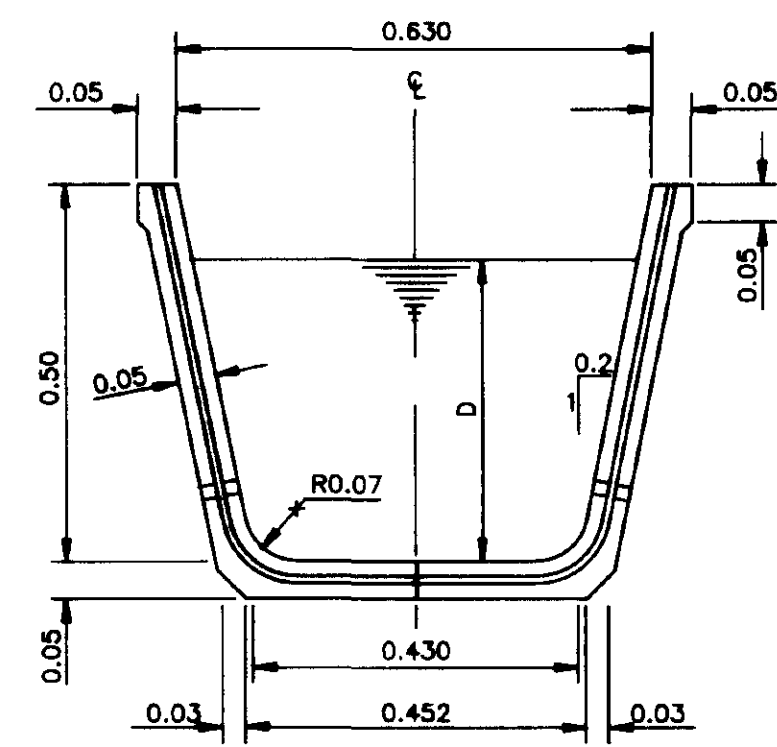
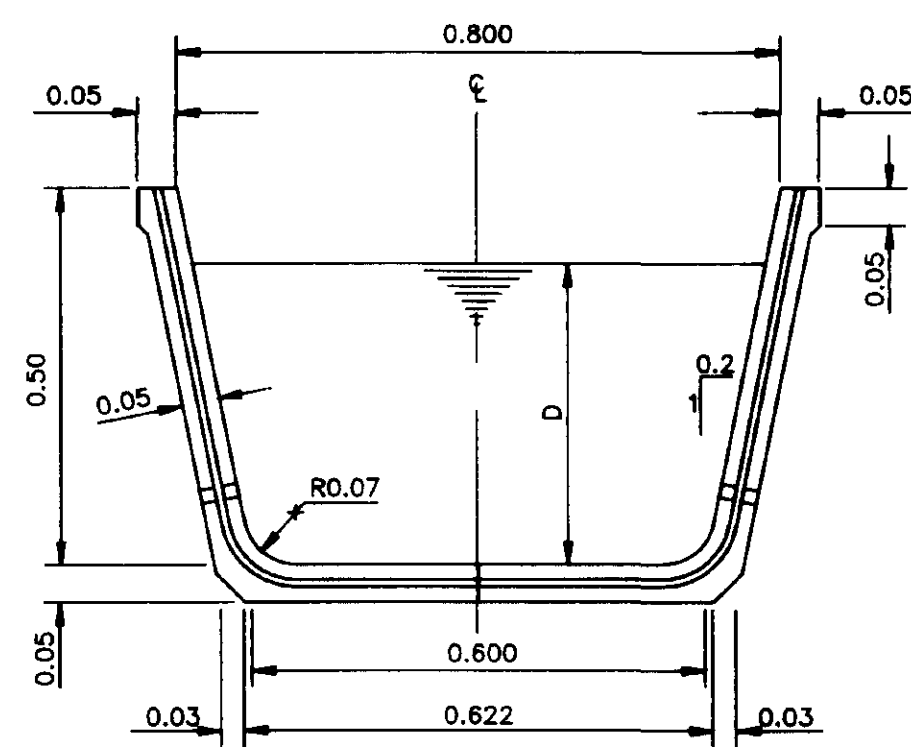
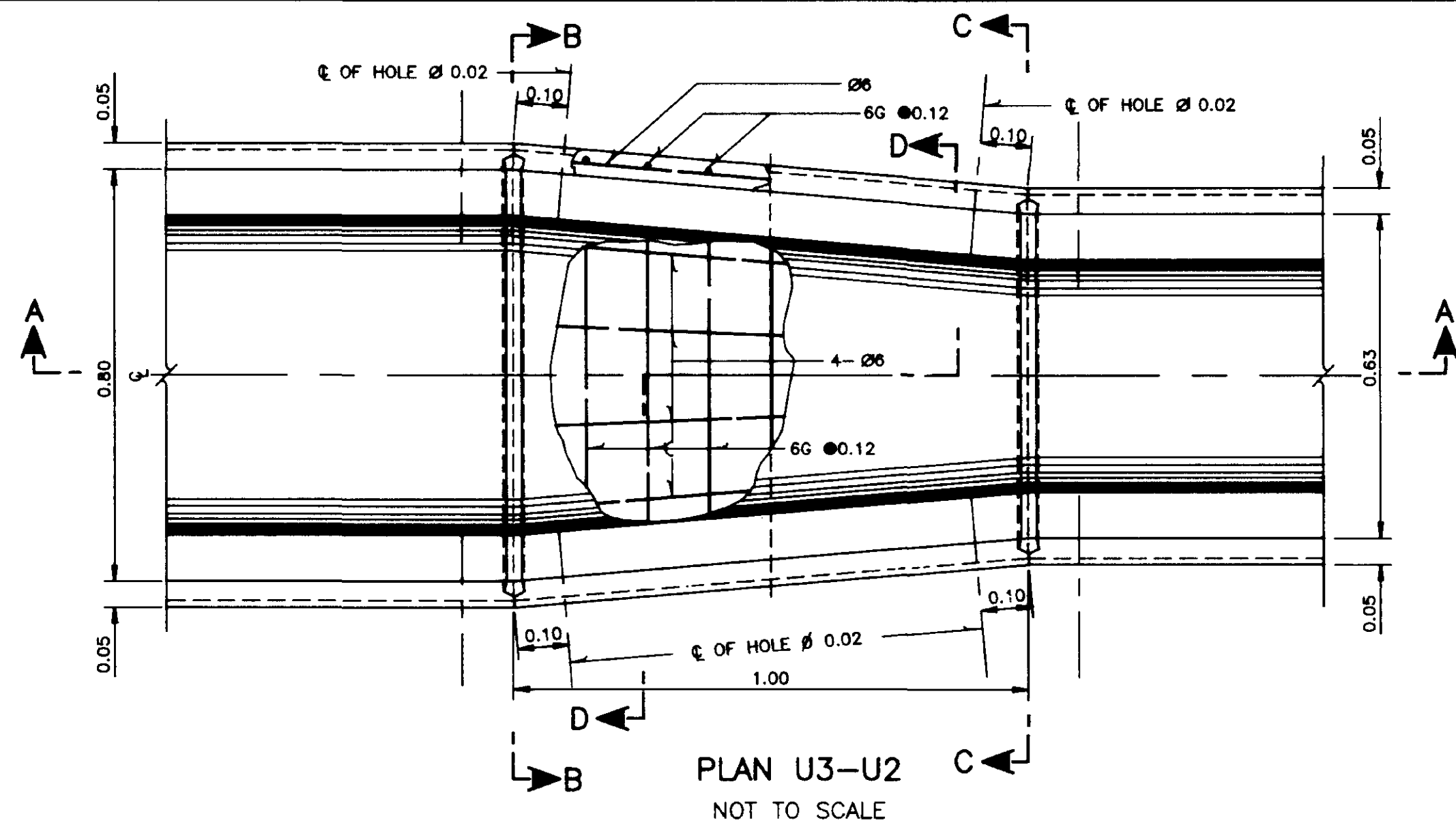
1. JOINT AND CONNECTION DETAIL ----- DWG.NO. 145103



TYPICAL END OF U-SHAPE
TYPE "A"

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL END OF U-SHAPE
PLAN, SECTION AND DETAILS

							DESIGNED	<i>Vishnu Angyan</i>	SUBMITTED	<i>N. Wongsamale</i>	CS.
							DRAWN	<i>Vishnu Angyan</i>	REVIEWED	<i>E. Sittaporn</i>	DDD.
							TRACED	<i>PHIRAT SURKEMAKE</i>	RECOMMENDED	<i>Chaiya Vongtham</i>	DD.
							CHECKED	<i>N. Wongsamale</i>	APPROVED	<i>Chaiya Vongtham</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION ON-FARM DESIGN BRANCH		2.00.38... DATE	145106	

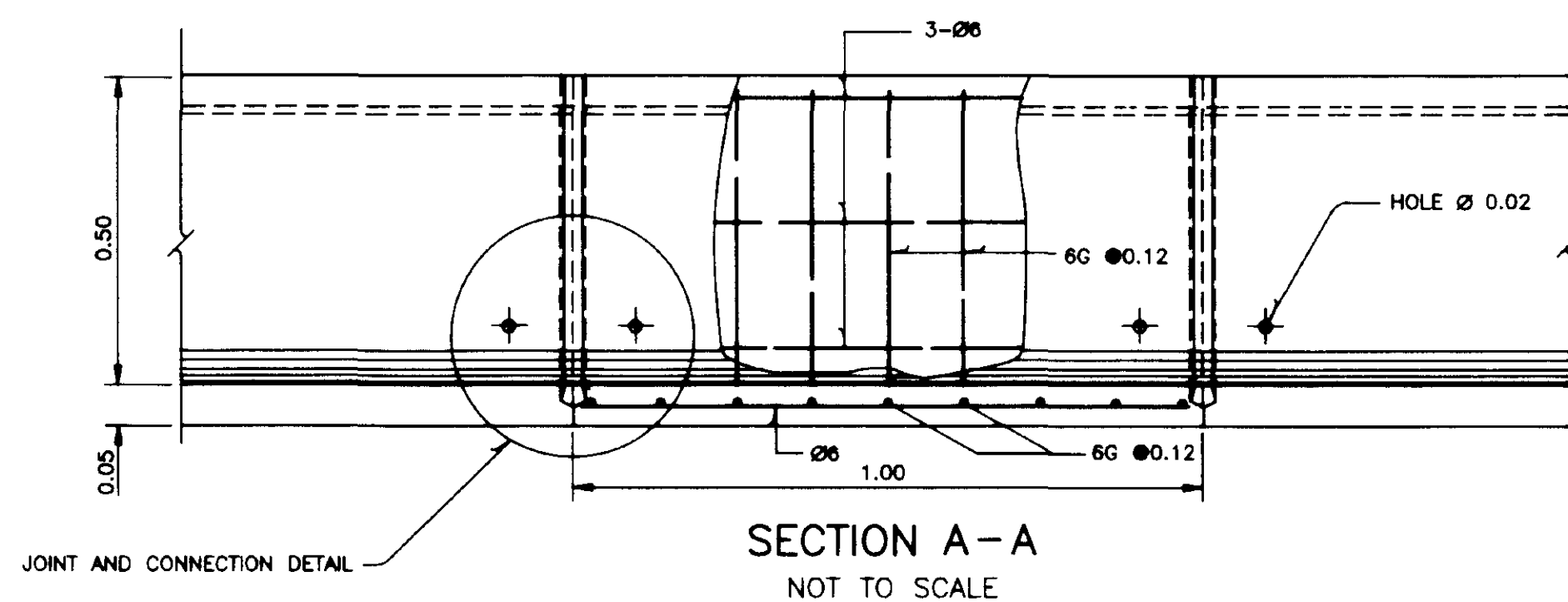


NOTES

1. GENERAL NOTES FOR U-SHAPE.....DWG.NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE.....DWG.NO. 145101
3. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SHOWN
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD

REFERENCE DRAWING

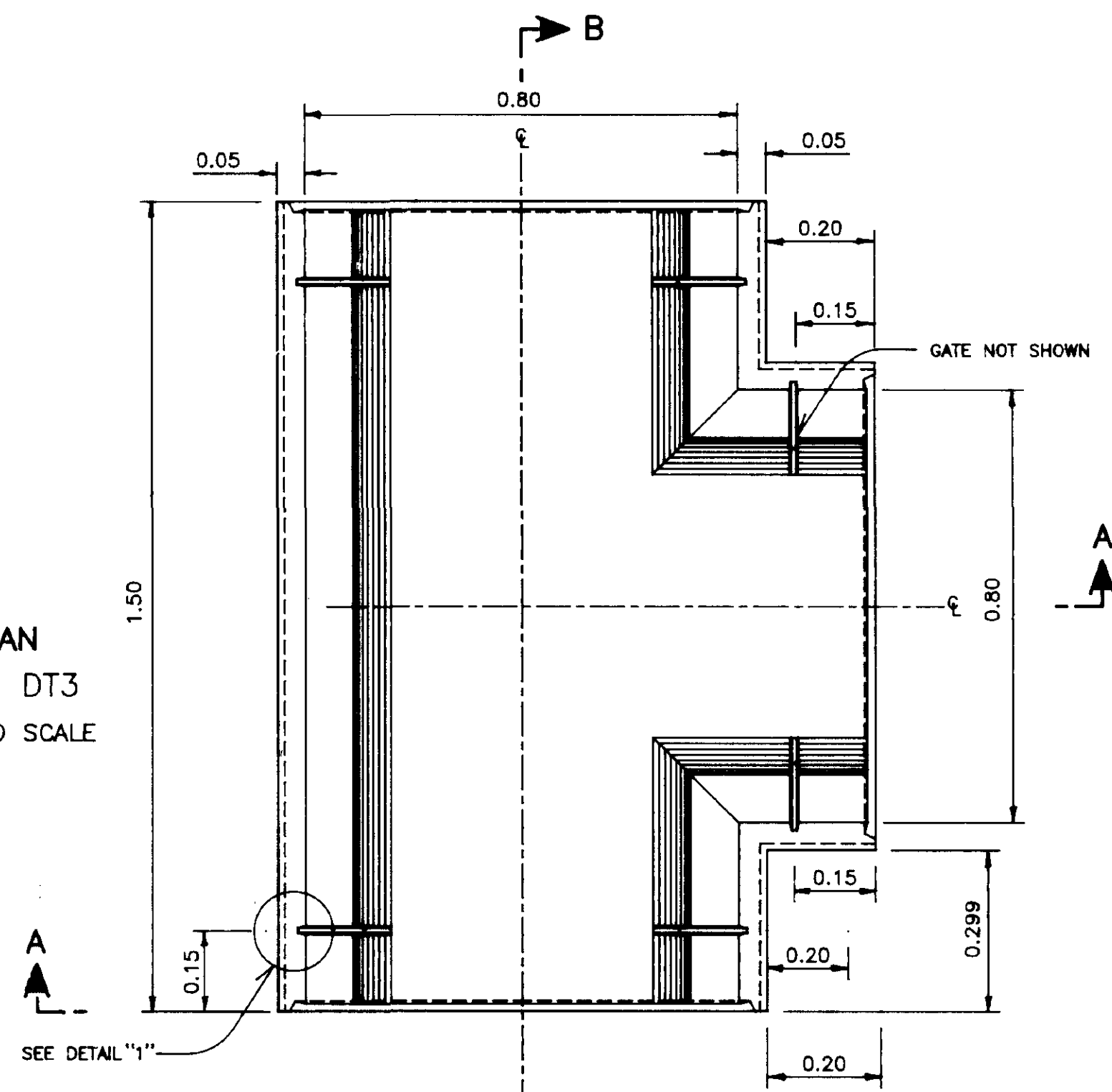
1. JOINT AND CONNECTION DETAIL.....DWG.NO. 145103



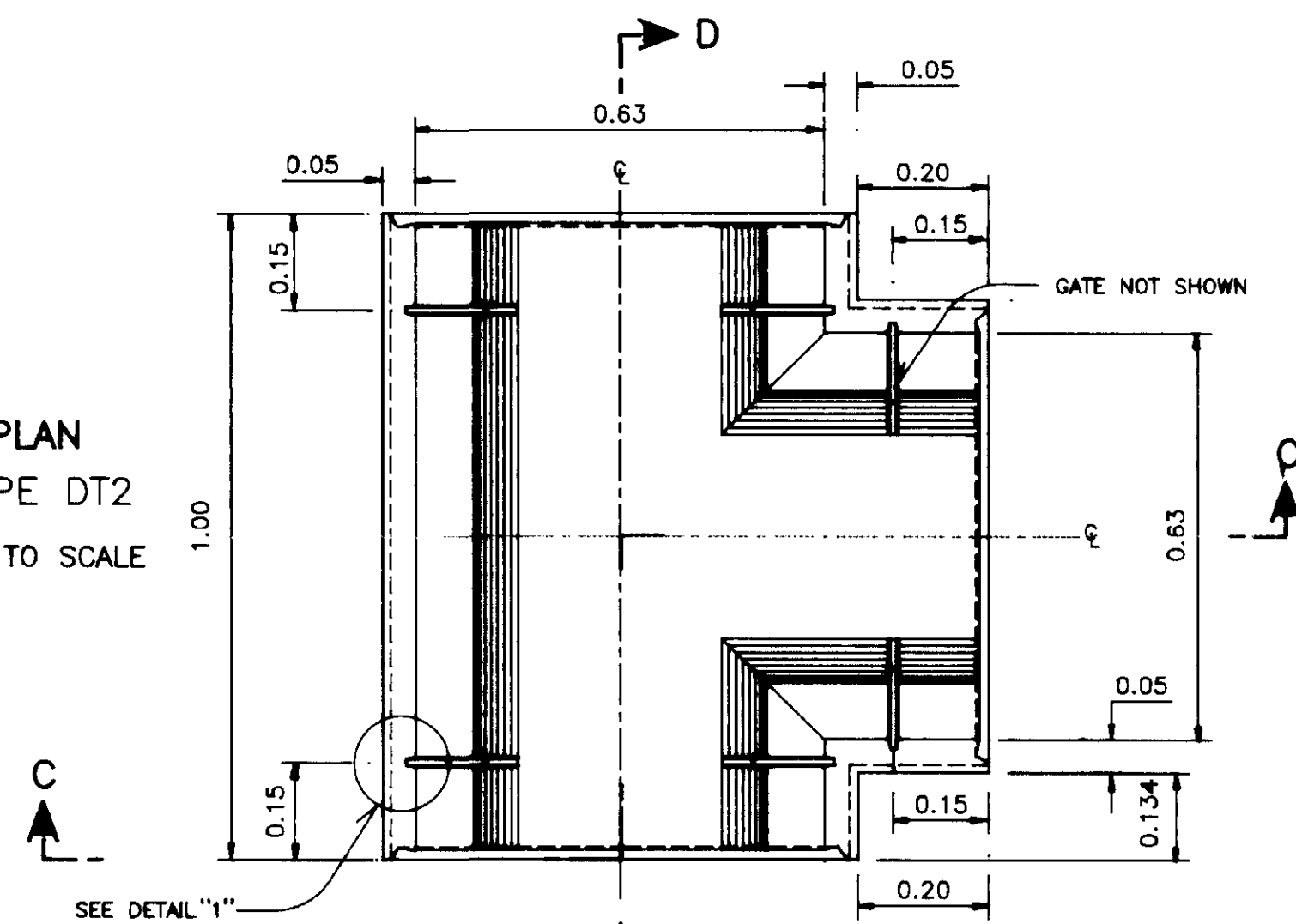
ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL PRECAST CONCRETE TRANSITION
FOR U-SHAPE
PLAN, SECTION AND DETAIL

DESIGNED	REVIEWED	SUBMITTED	CS.
DRAWN	REVIEWED	REVIEWED	DDD.
TRACED	REVIEWED	REVIEWED	DD.
CHECKED	REVIEWED	APPROVED	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE
CHECKED	REVIEWED	APPROVED	DATE
SUBMITTED	RECOM.	APPROVED	DATE
DESIGN DIVISION	ON-FARM DESIGN BRANCH	2.11.39.	145107

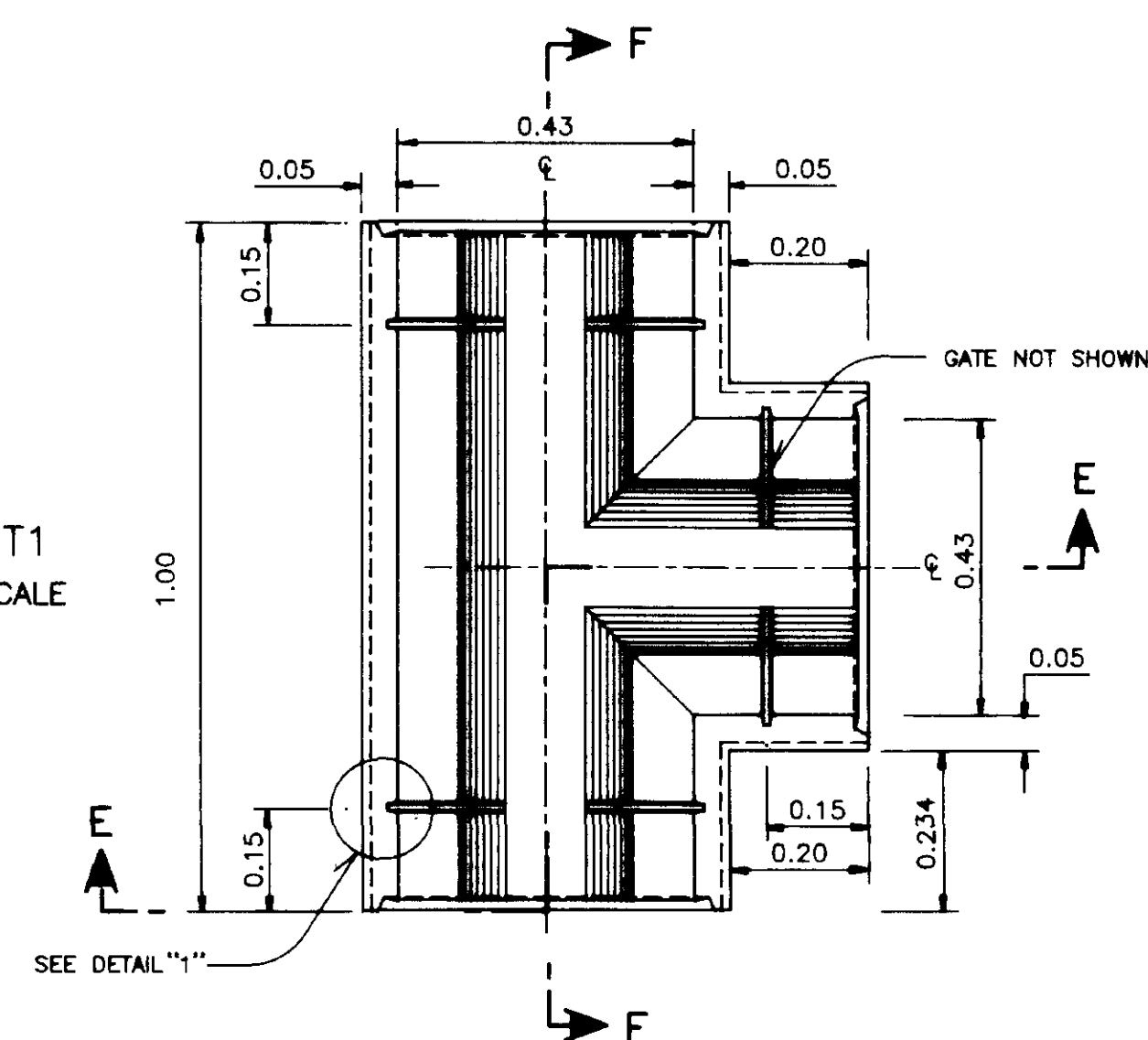
PLAN
TYPE DT3
NOT TO SCALE



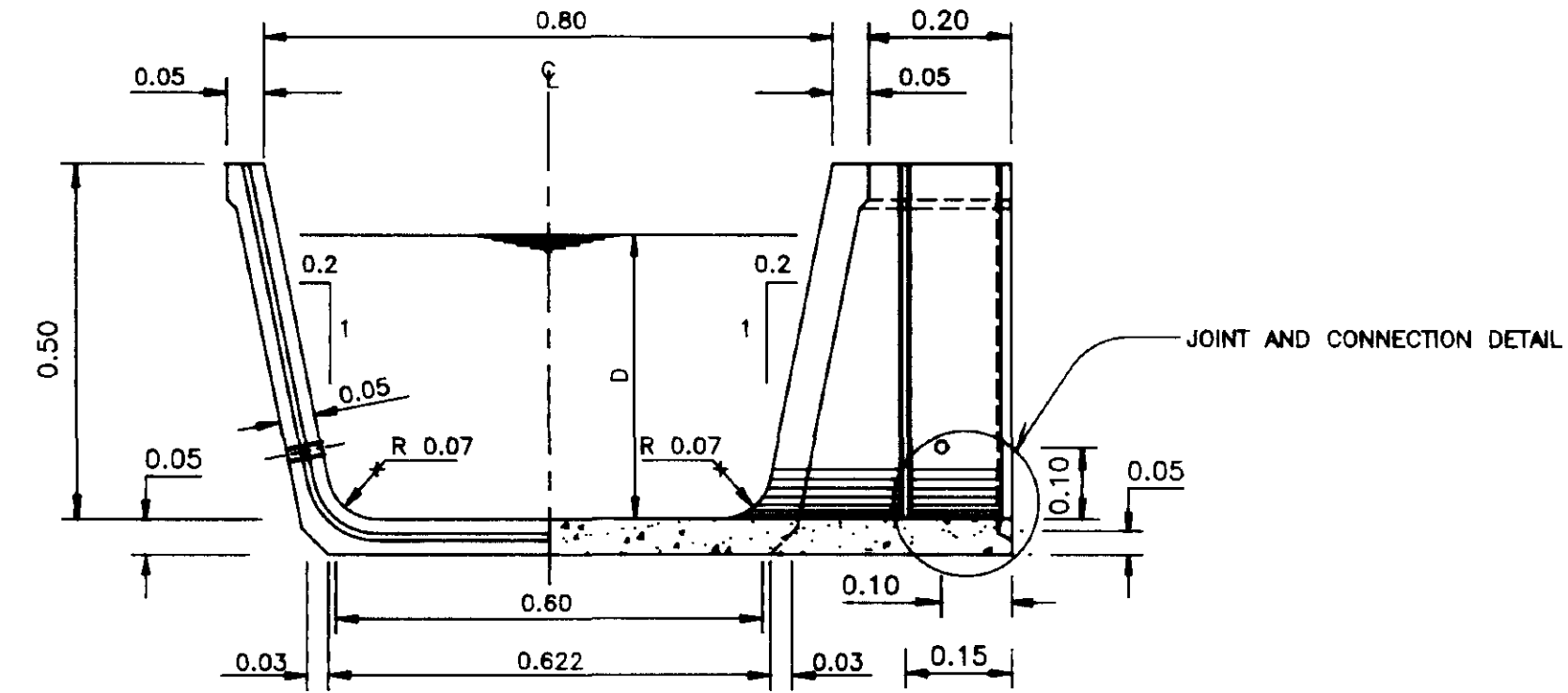
PLAN
TYPE DT2
NOT TO SCALE



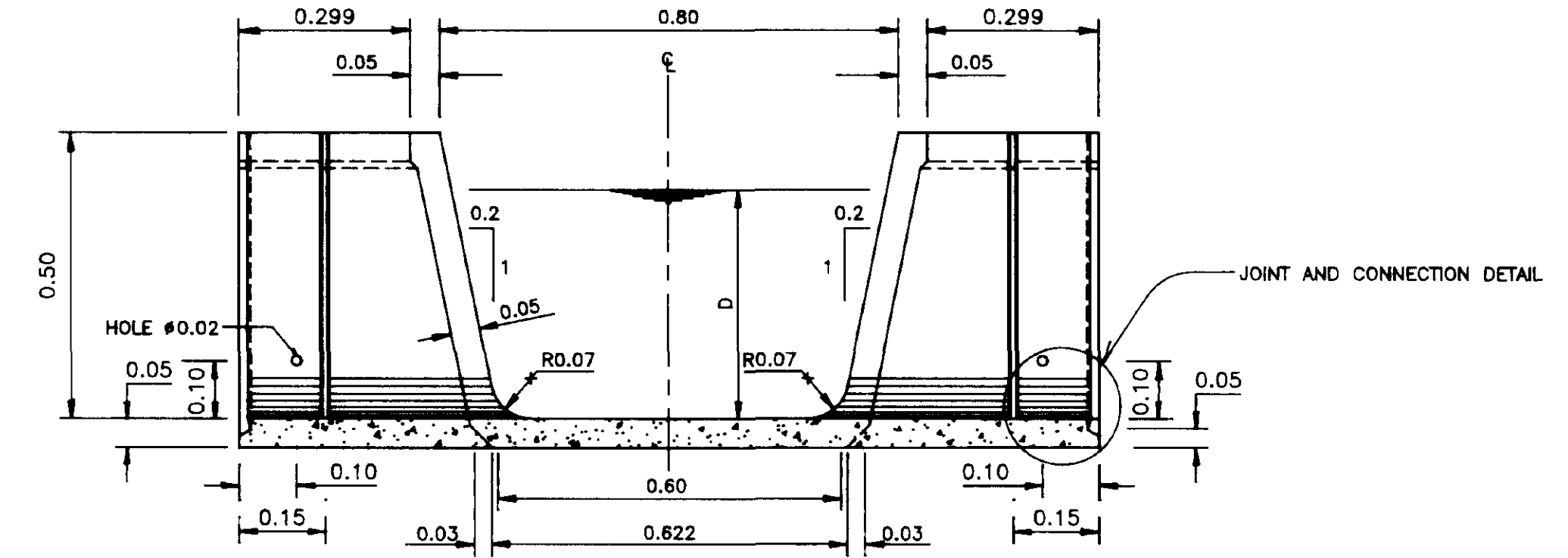
PLAN
TYPE DT1
NOT TO SCALE



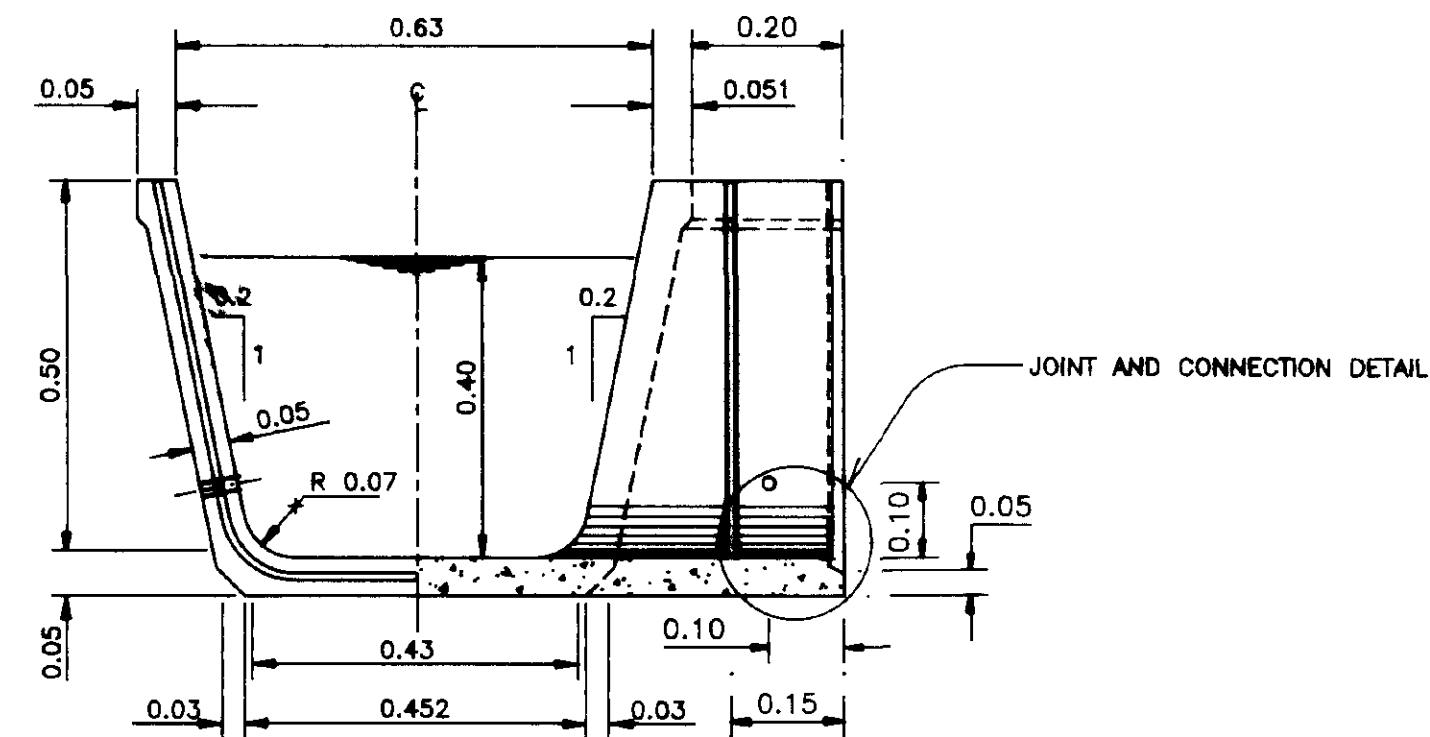
SECTION A-A
NOT TO SCALE



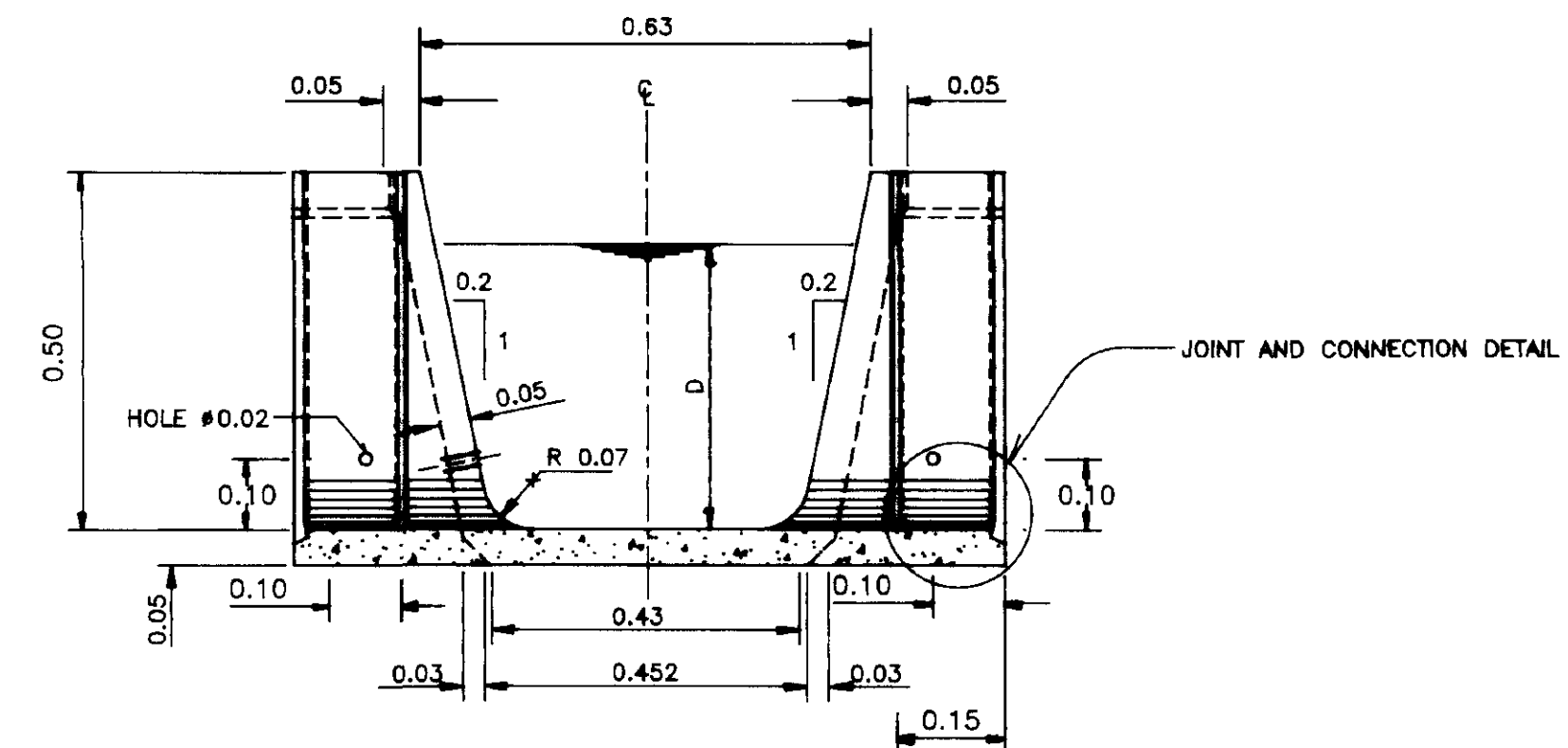
SECTION B-B
NOT TO SCALE



SECTION C-C
NOT TO SCALE

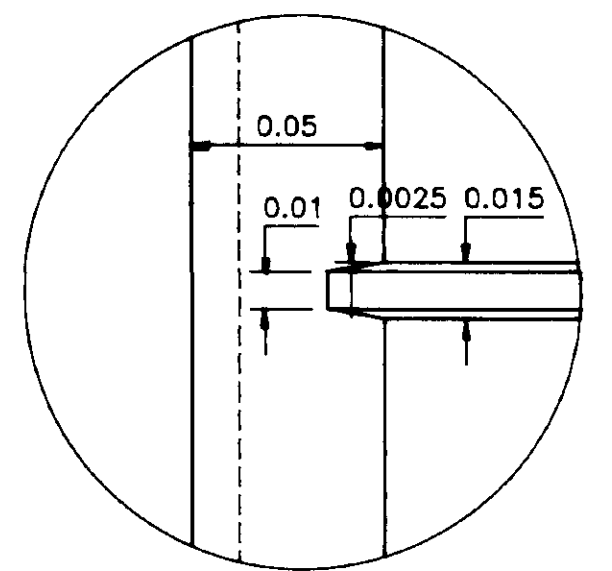


SECTION D-D
NOT TO SCALE



DETAIL "1"

NOT TO SCALE



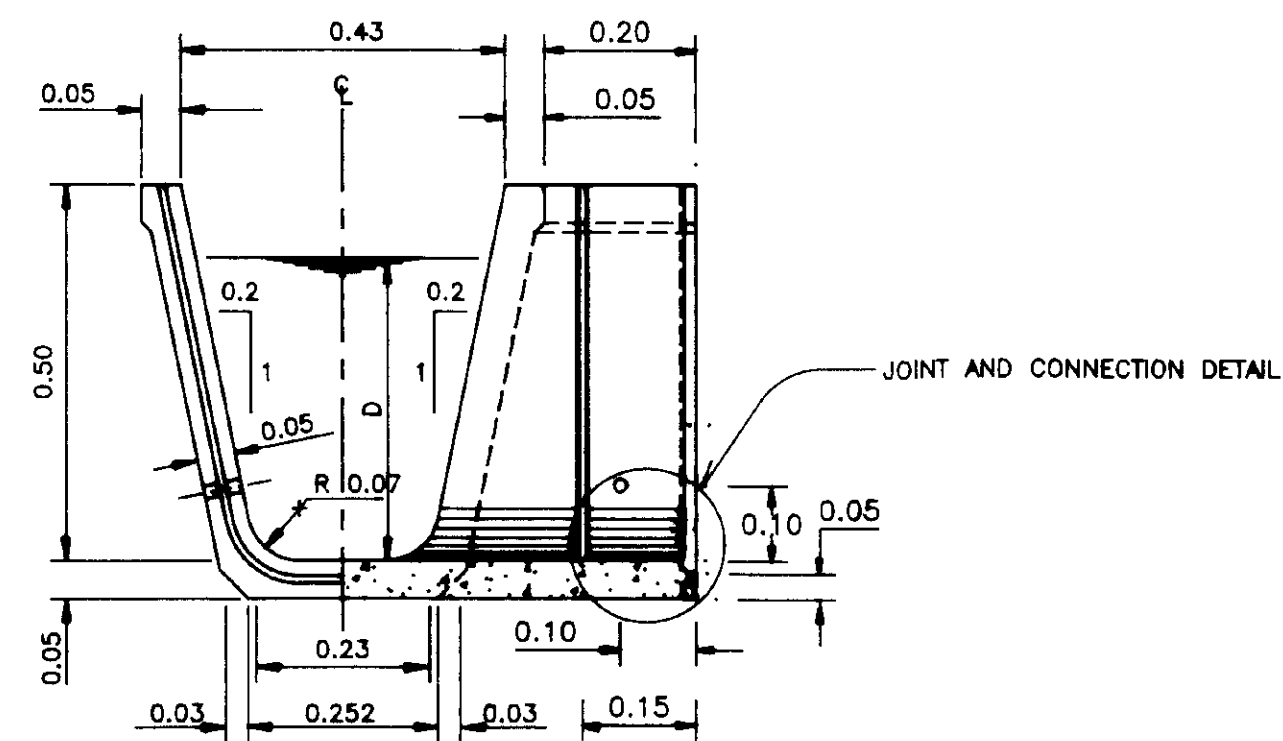
NOTES

1. GENERAL NOTES FOR U-SHAPE ----- DWG.NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE ----- DWG.NO. 145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

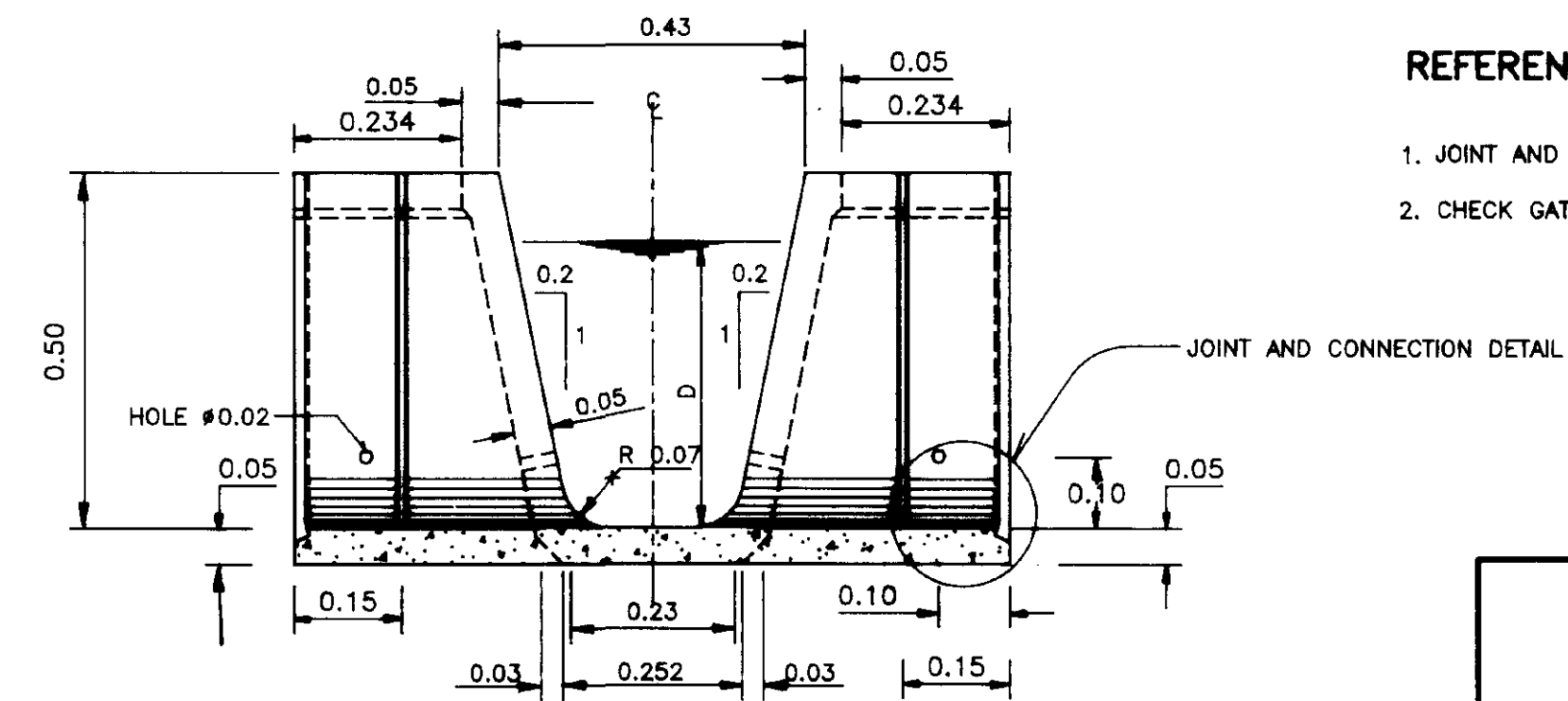
REFERENCE DRAWINGS

- | | |
|--------------------------------|----------------|
| 1. JOINT AND CONNECTION DETAIL | DWG.NO. 145103 |
| 2. CHECK GATE | DWG.NO. 145110 |

SECTION E-E
NOT TO SCALE

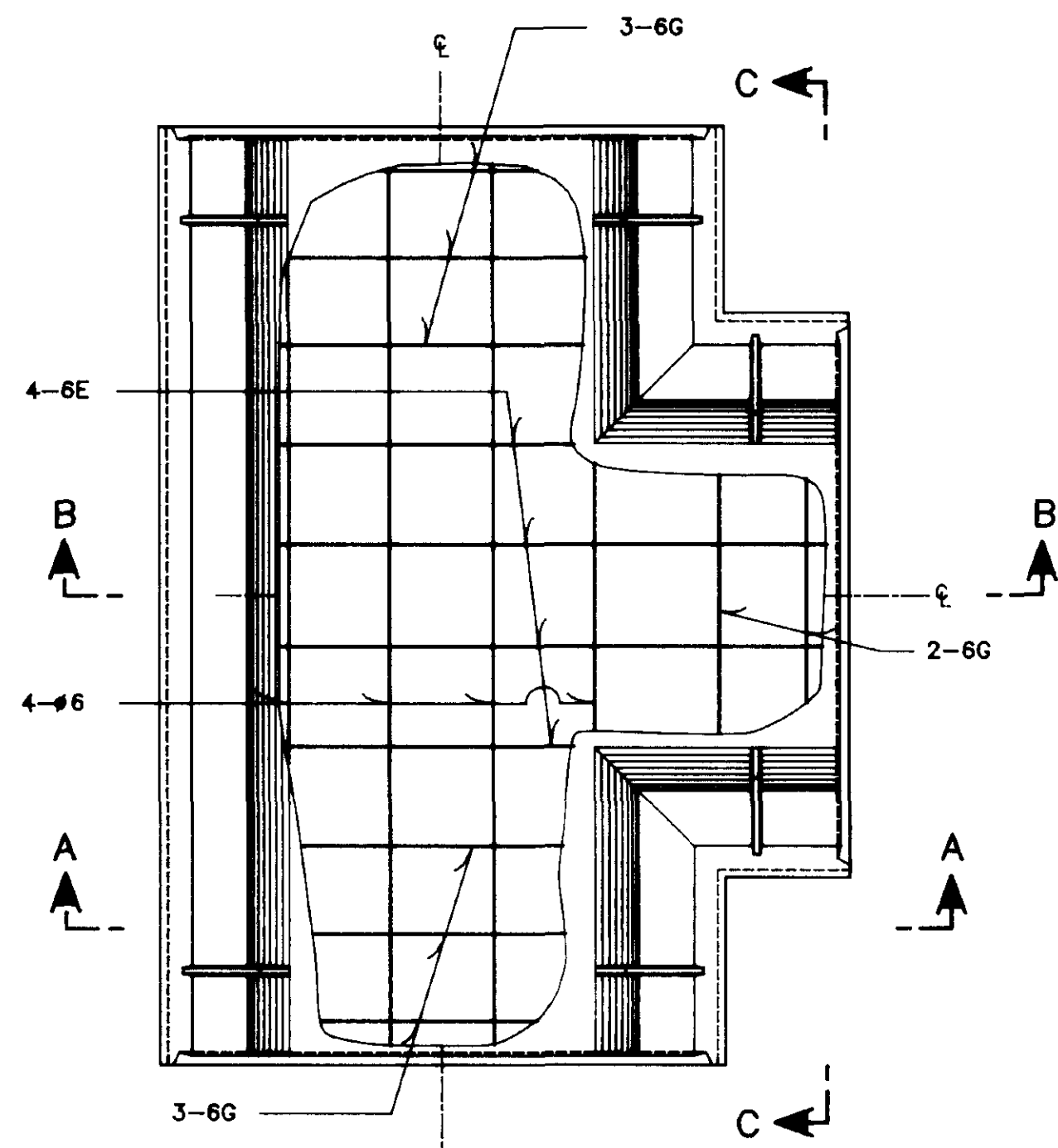


SECTION F-F
NOT TO SCALE

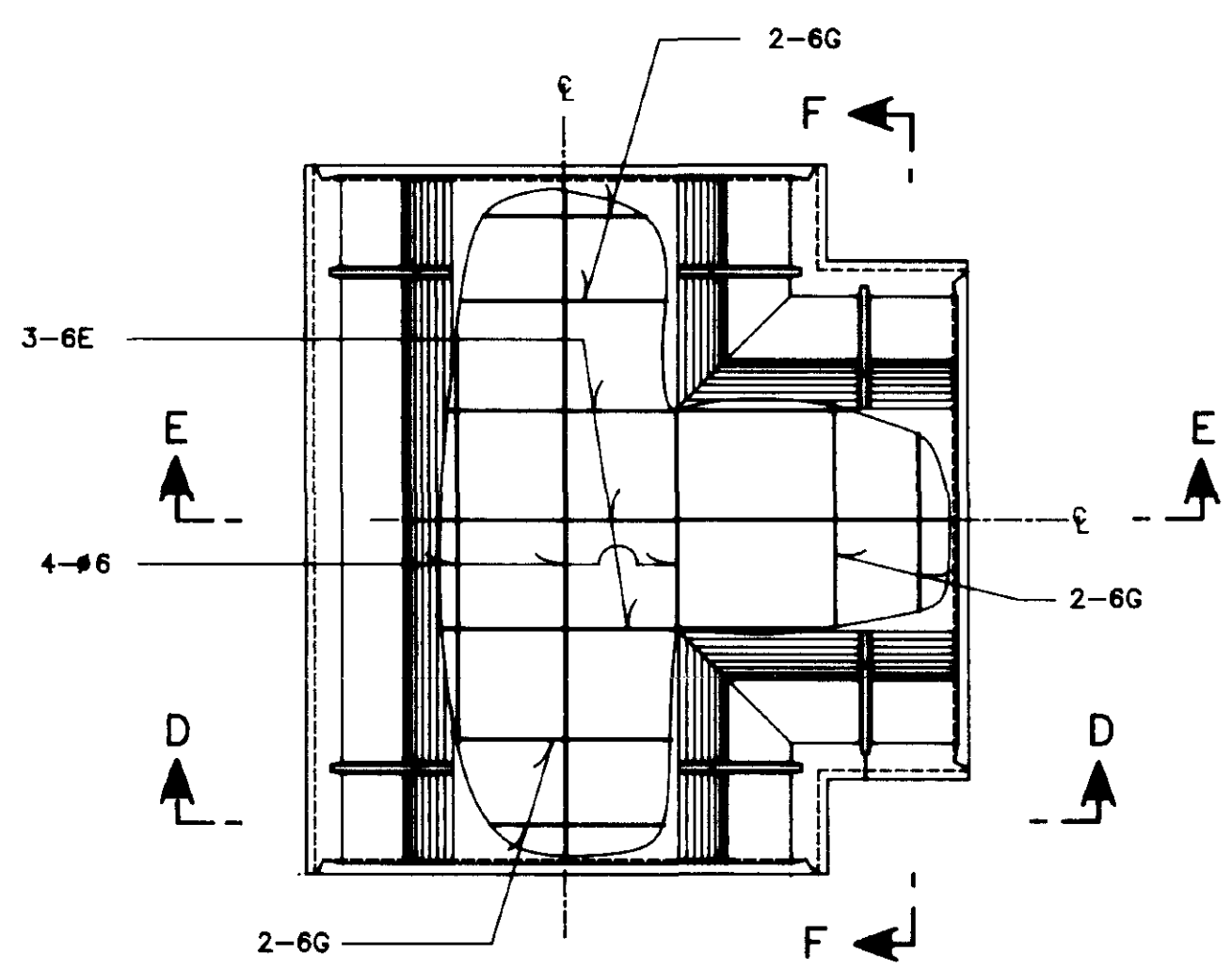


ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL DITCH TURNOUT STRUCTURE
FOR U-SHAPE
PLAN, SECTION AND DETAILS

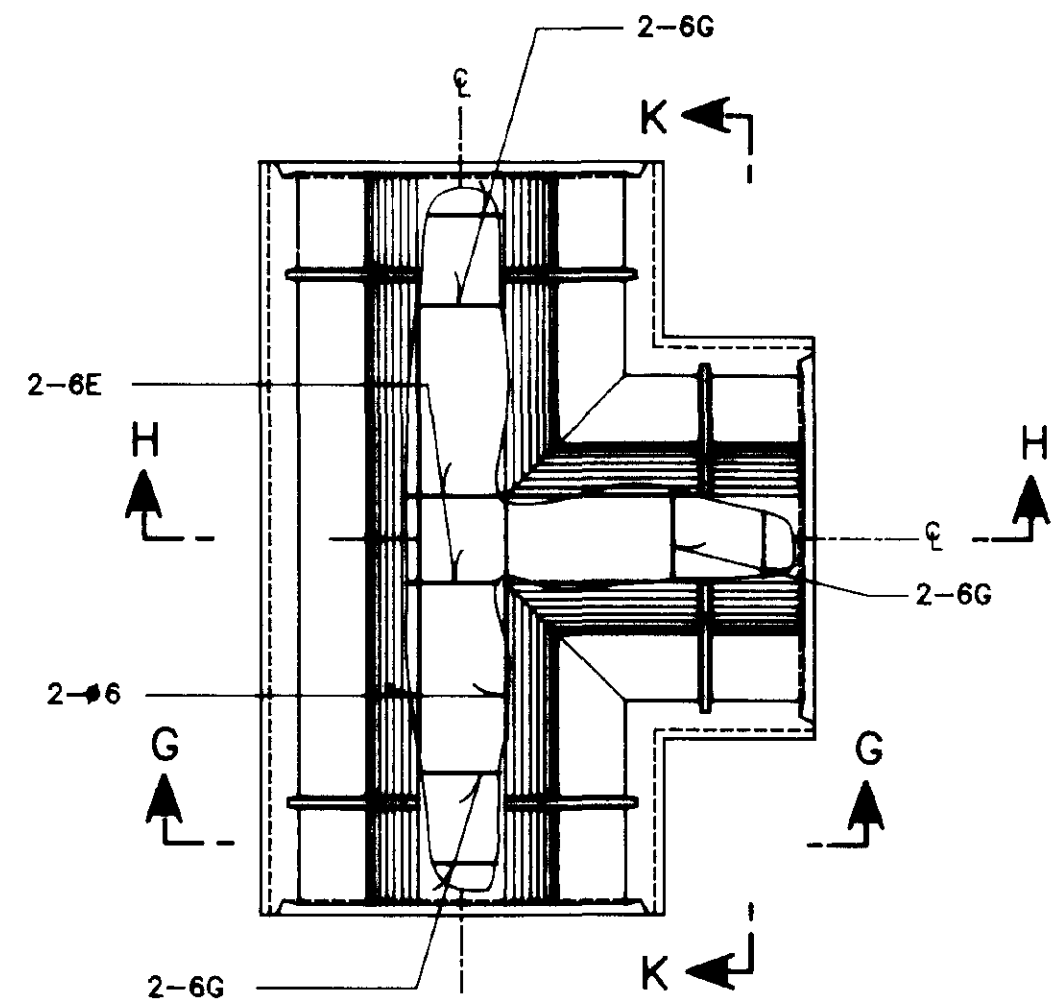
							DESIGNED	<i>Nicholas Anggrawan</i>	SUBMITTED	<i>N. Wongsansek</i>	CS.
							DRAWN	<i>Nicholas Anggrawan</i>	REVIEWED	<i>B. P. 1741</i>	DDD
							TRACED	PENRAT SUKEMAKE	RECOMMENDED	<i>Ch. Va. Vantana</i>	DD.
							CHECKED	<i>N. Wongsansek</i>	APPROVED	<i>Ch. Va. Vantana</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION ON-FARM DESIGN BRANCH	2.10.39...	DATE	145108	



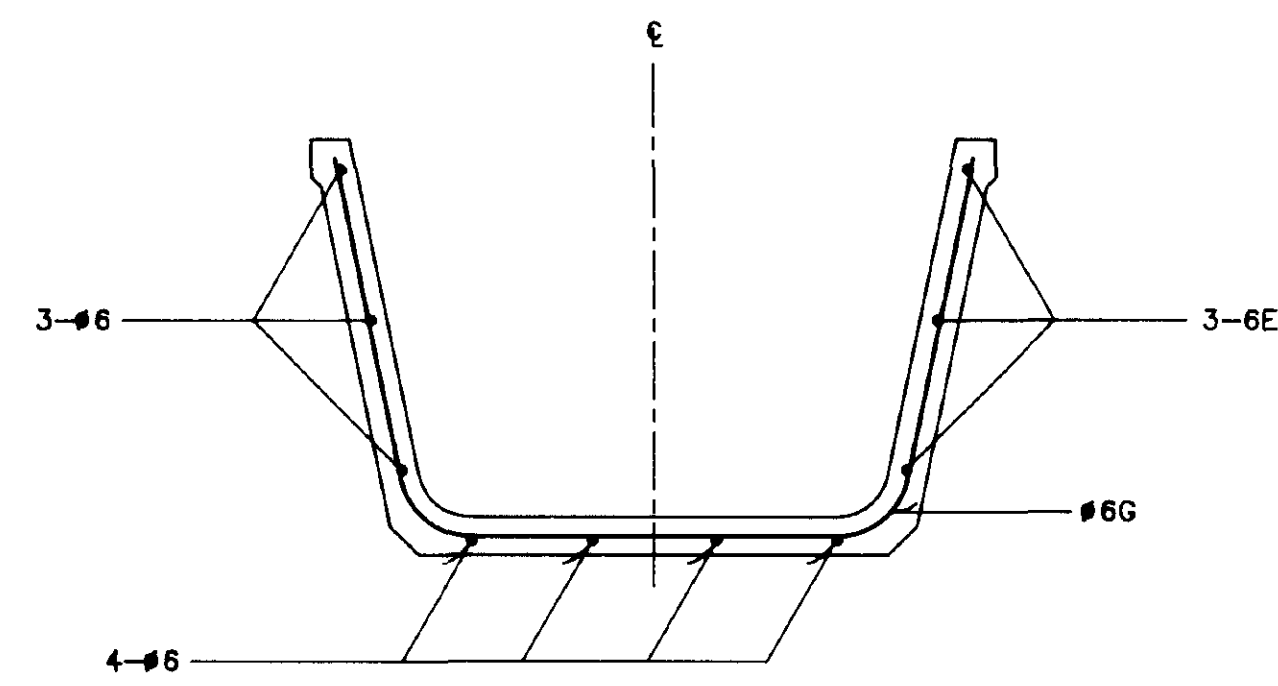
PLAN TYPE DT3
NOT TO SCALE



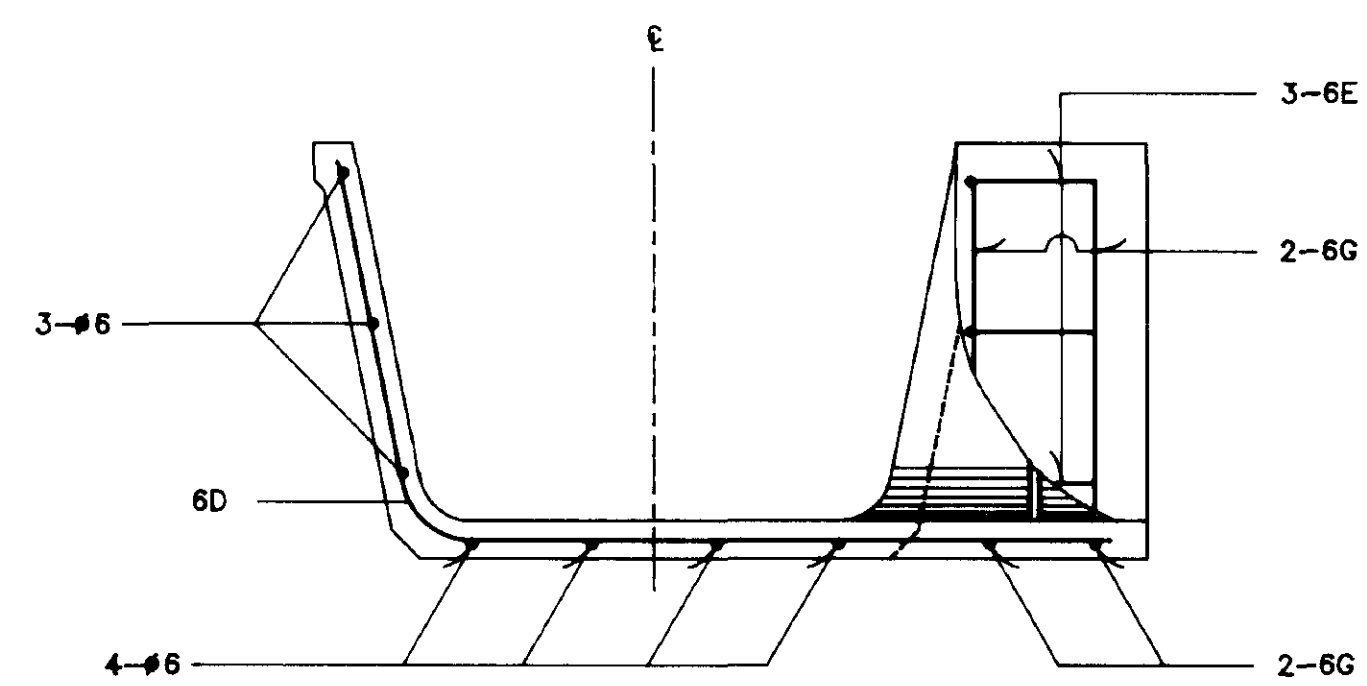
PLAN TYPE DT2
NOT TO SCALE



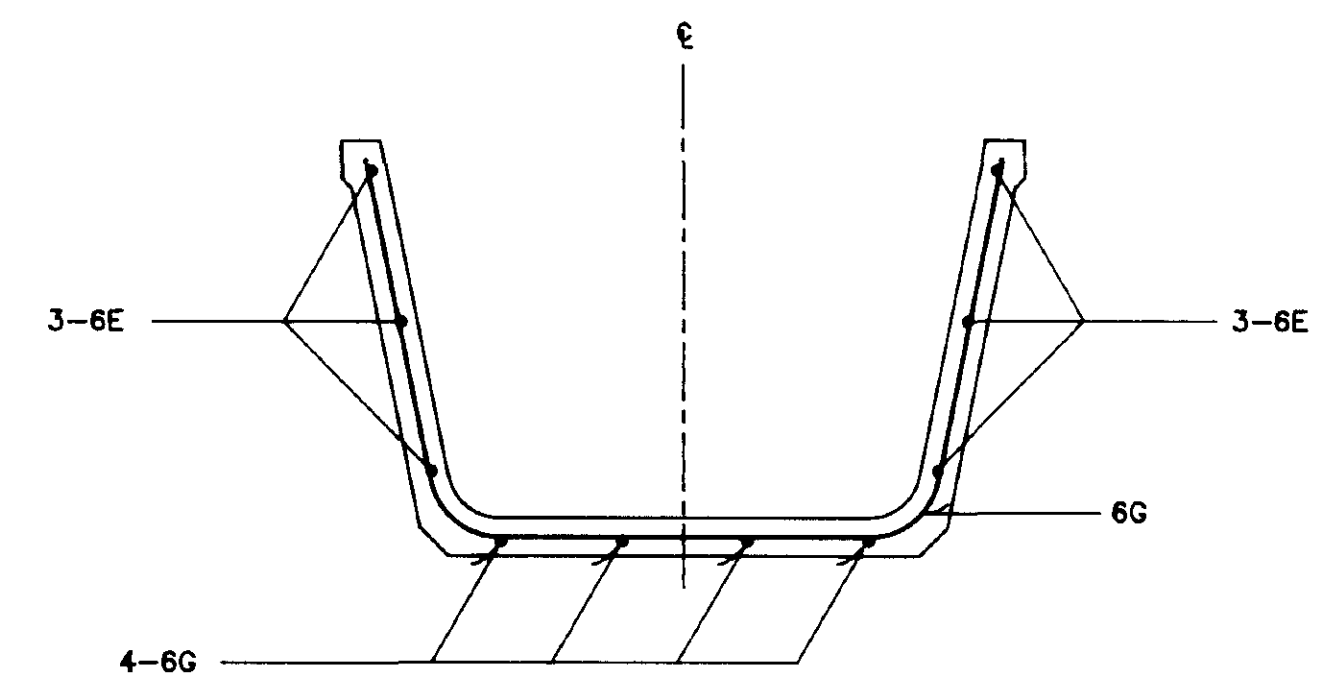
PLAN TYPE DT1
NOT TO SCALE



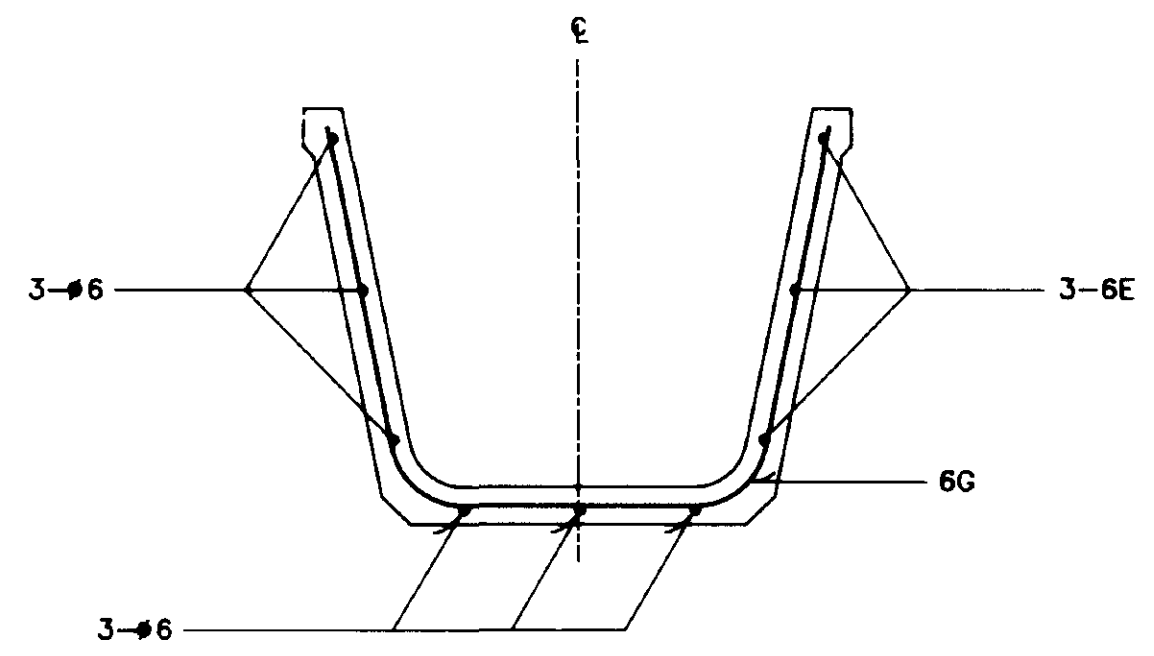
SECTION A-A
NOT TO SCALE



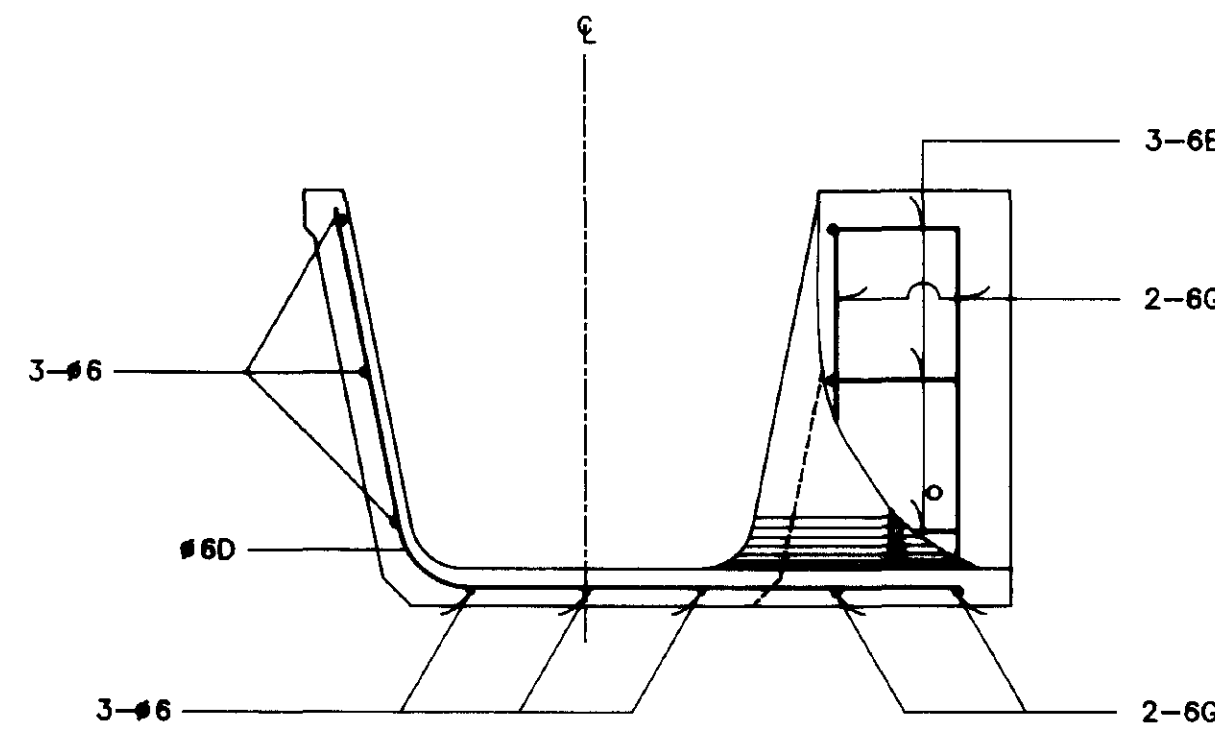
SECTION B-B
NOT TO SCALE



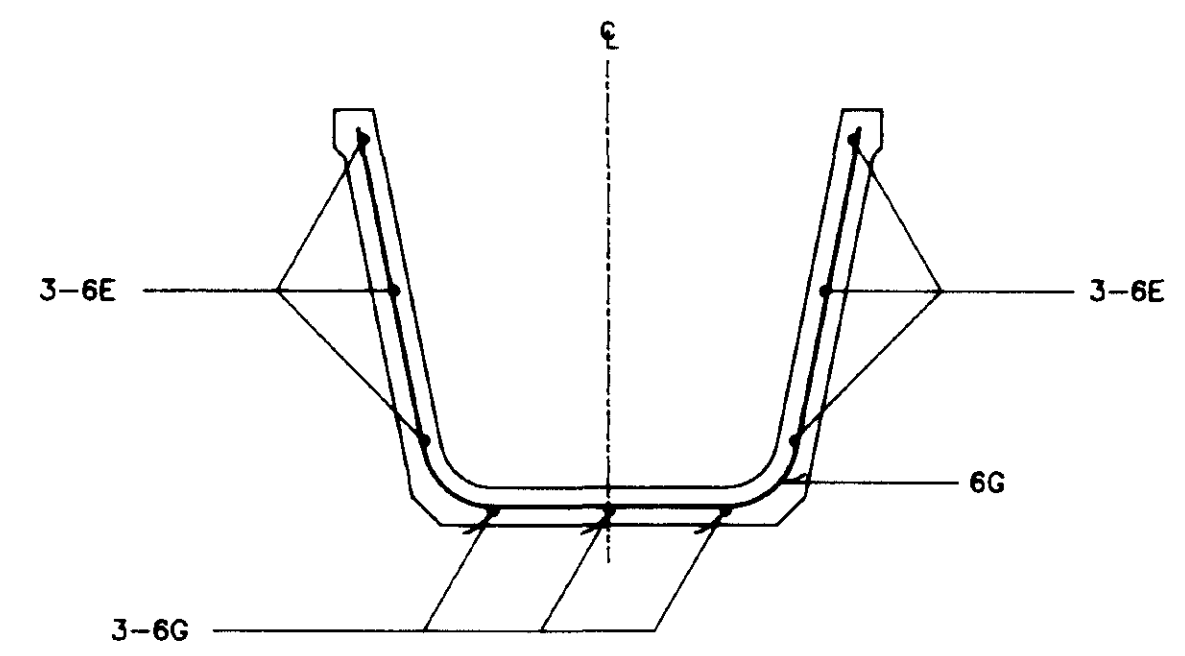
SECTION C-C
NOT TO SCALE



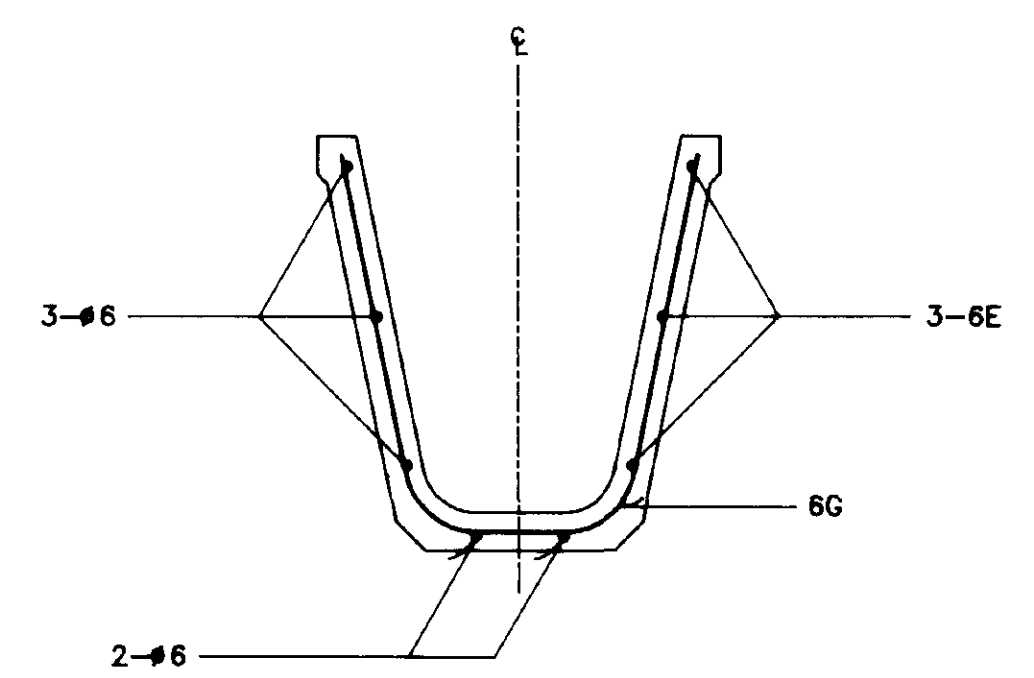
SECTION D-D
NOT TO SCALE



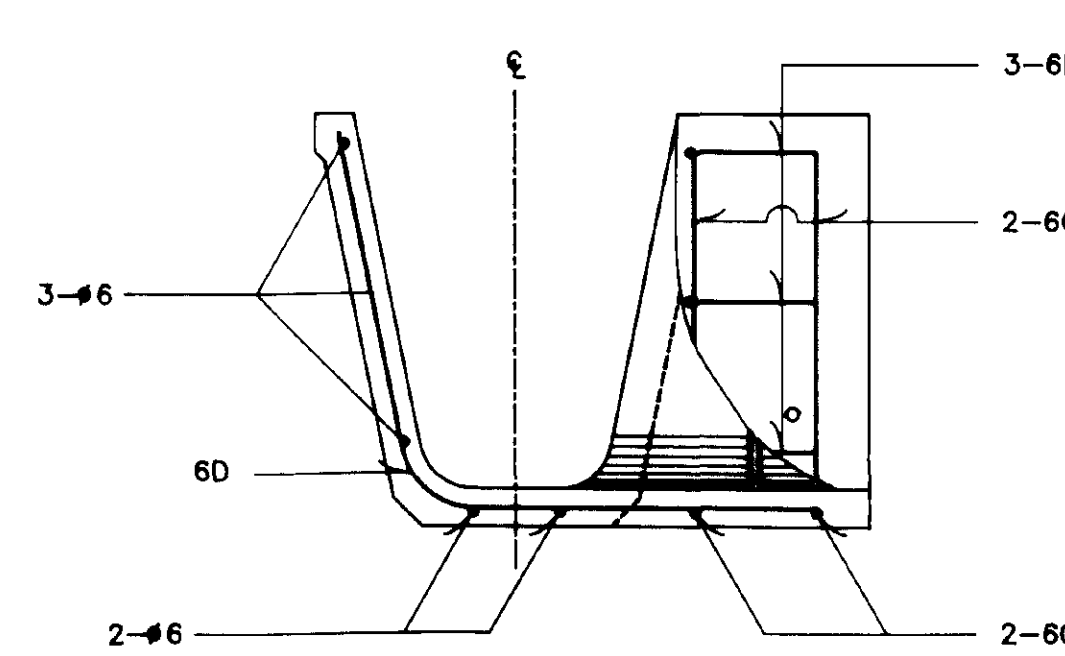
SECTION E-E
NOT TO SCALE



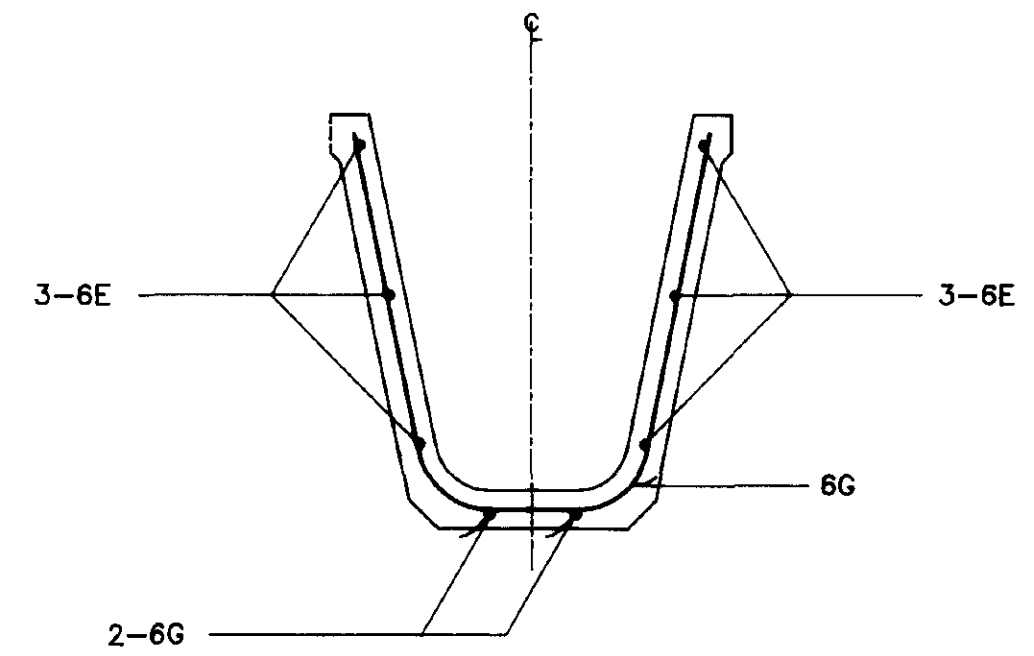
SECTION F-F
NOT TO SCALE



SECTION G-G
NOT TO SCALE



SECTION H-H
NOT TO SCALE



SECTION K-K
NOT TO SCALE

NOTES

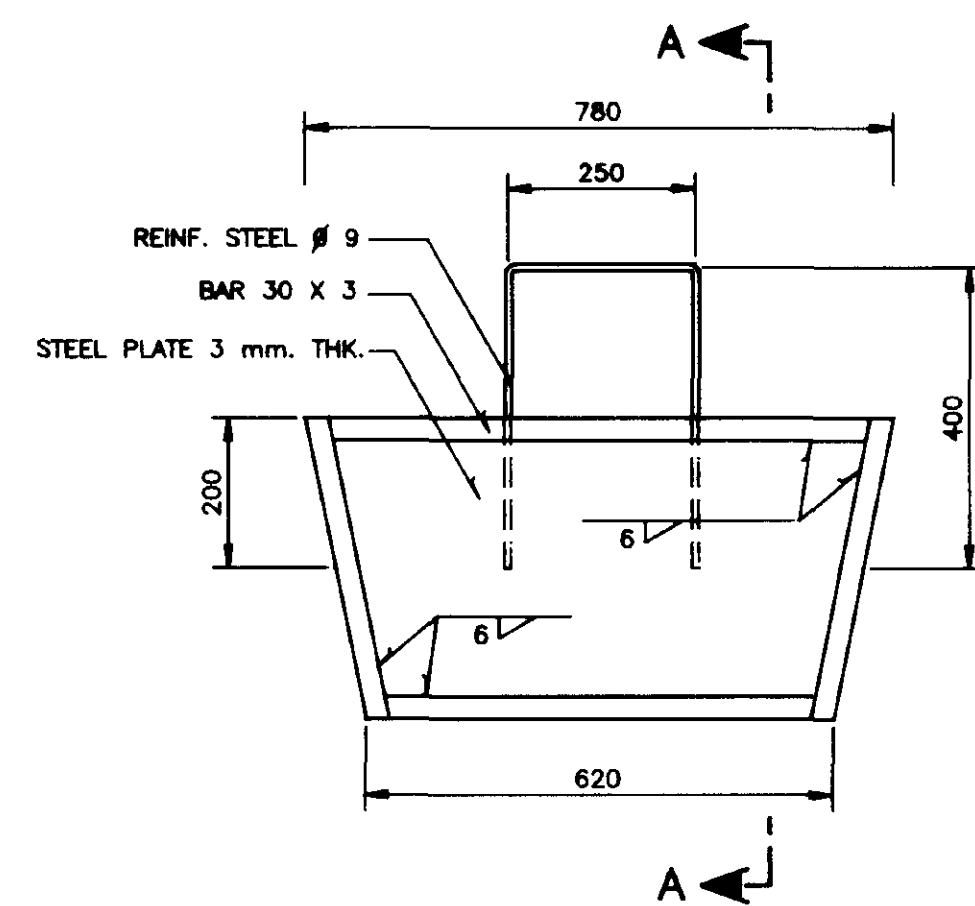
1. GENERAL NOTES FOR U-SHAPE ----- DWG.NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE ----- DWG.NO. 145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWINGS

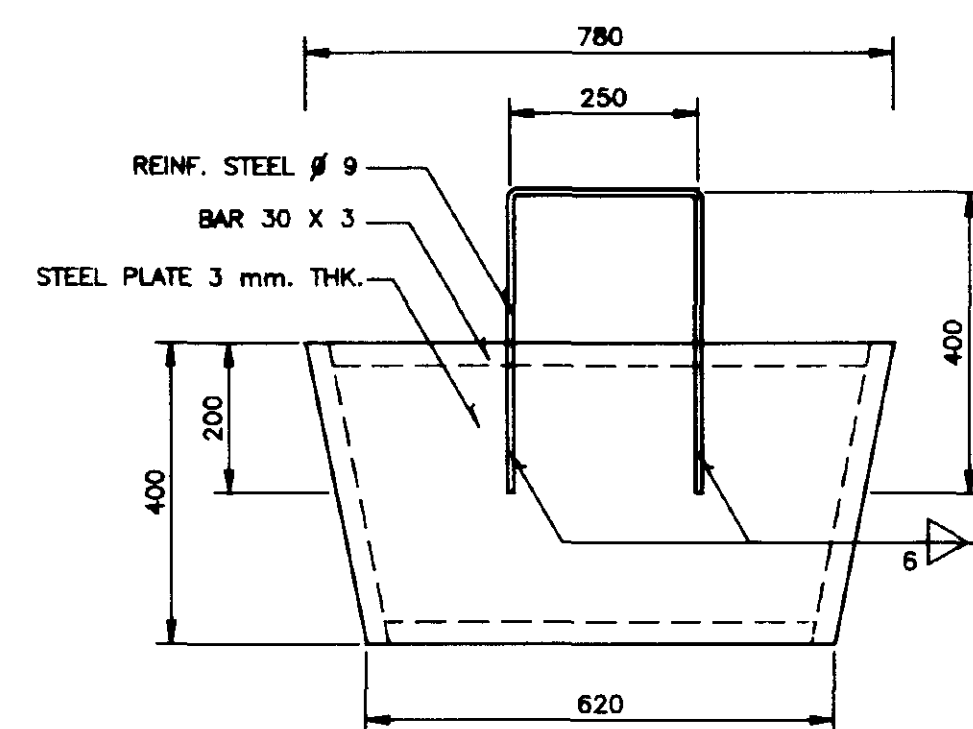
1. JOINT AND CONNECTION DETAIL ----- DWG.NO. 145103

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL DITCH TURNOUT STRUCTURE
FOR U-SHAPE
DETAIL OF REINFORCEMENT

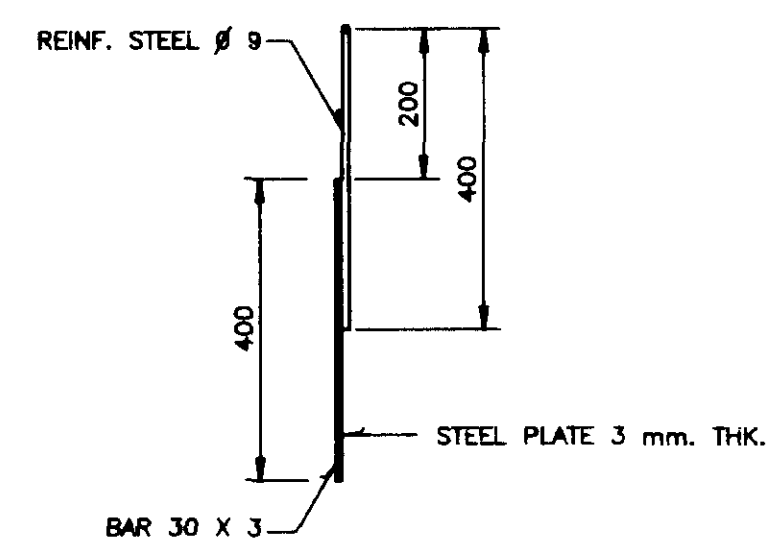
							DESIGNED	<i>Vishnu Angayam</i>	SUBMITTED	<i>N. Ulaganathan</i>	CS.
							DRAWN	<i>Vishnu Angayam</i>	REVIEWED	<i>E. S. S. S.</i>	DD.
							TRACED	PENRAT SUNEEMAKE	RECOMMENDED	<i>Chinn V. S. S.</i>	DD.
							CHECKED	<i>N. Ulaganathan</i>	APPROVED	<i>Chinn V. S. S.</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION ON-FARM DESIGN BRANCH		2.10.2024 DATE	145109	



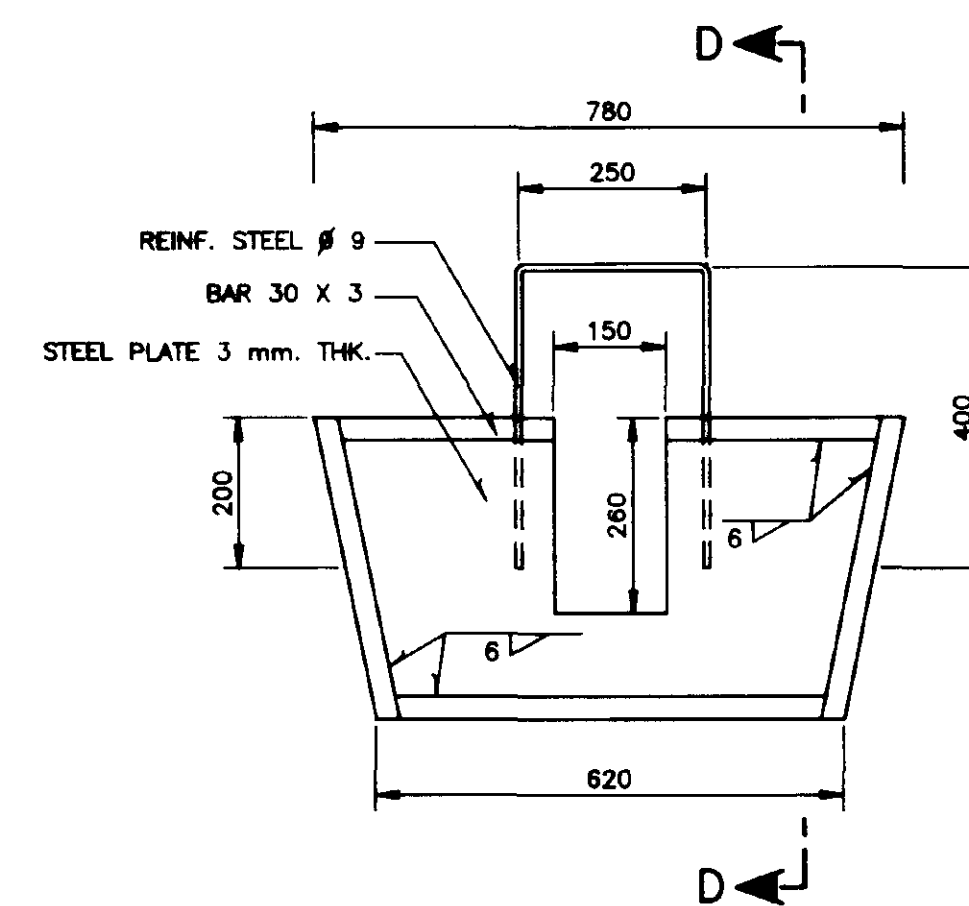
CHECK GATE TYPE G3
FRONT VIEW
NOT TO SCALE



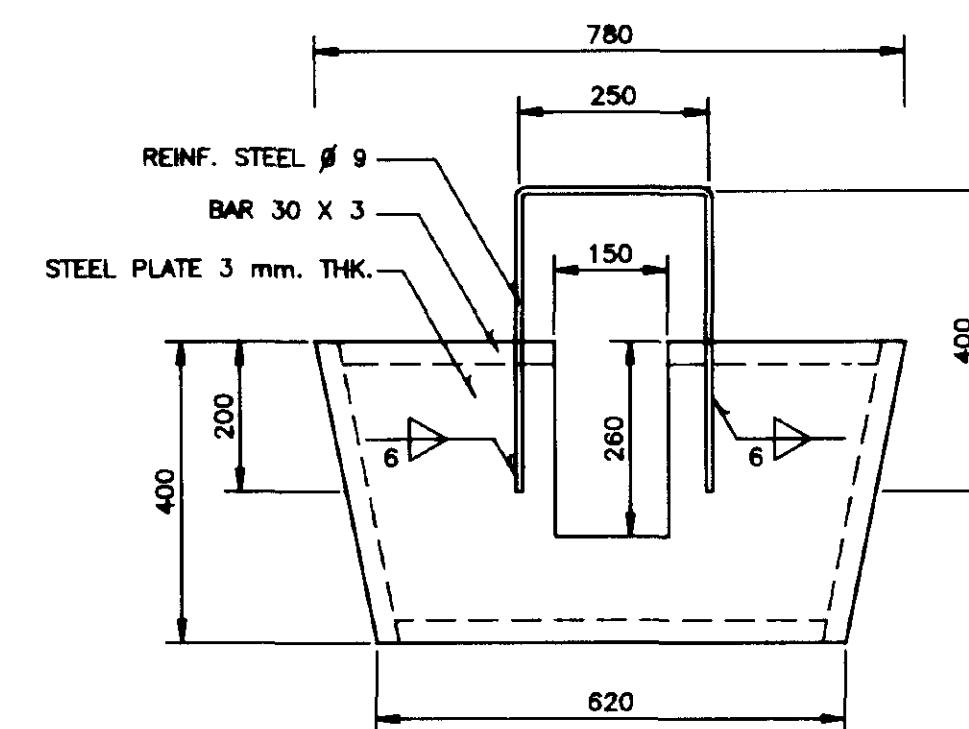
CHECK GATE TYPE G3
BACK VIEW
NOT TO SCALE



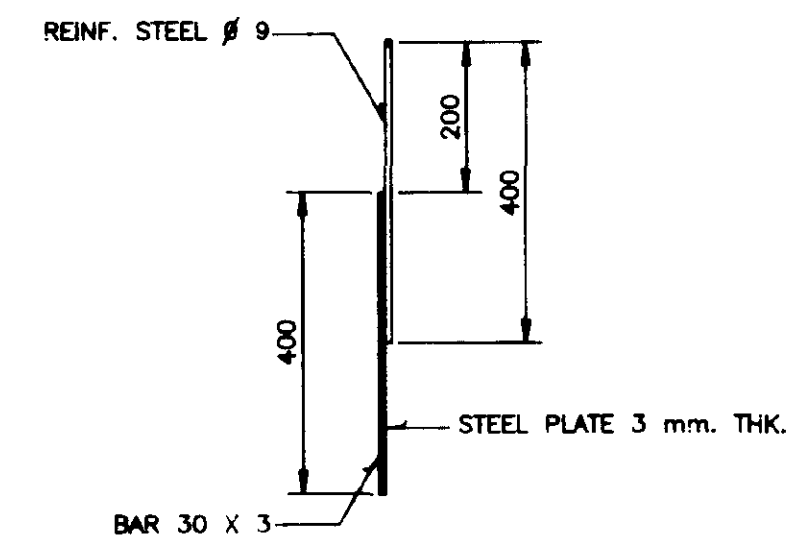
CHECK GATE TYPE G3
SECTION A-A
NOT TO SCALE



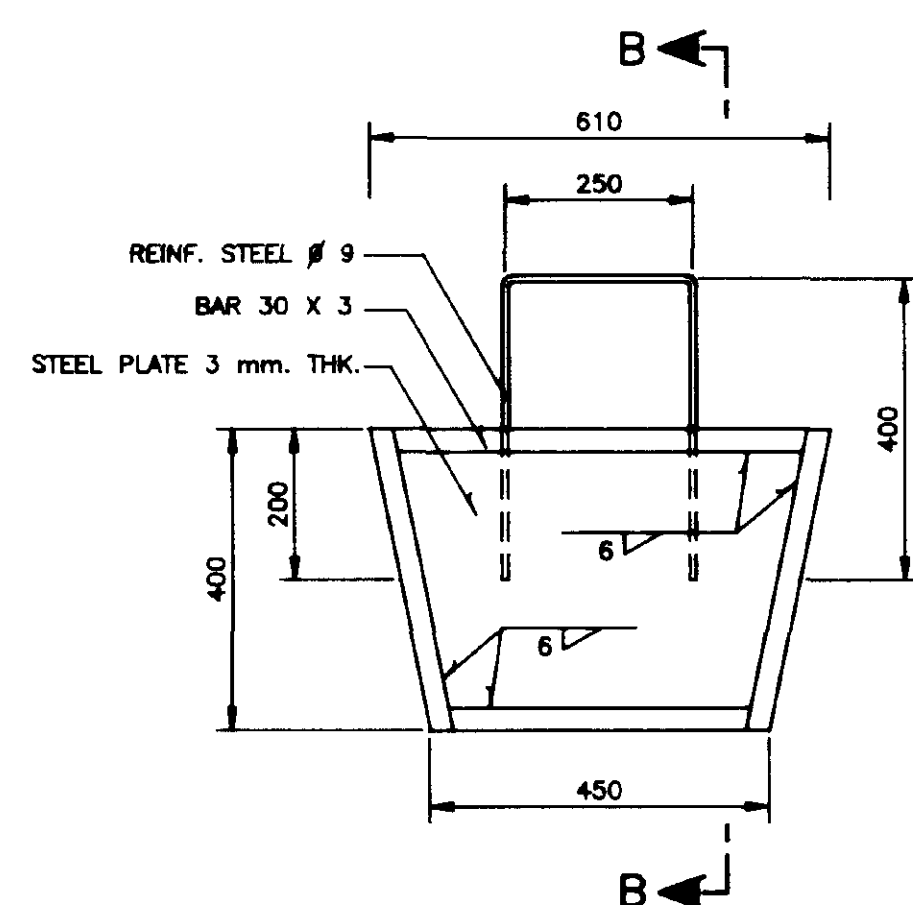
CHECK GATE TYPE G3-1
FRONT VIEW
NOT TO SCALE



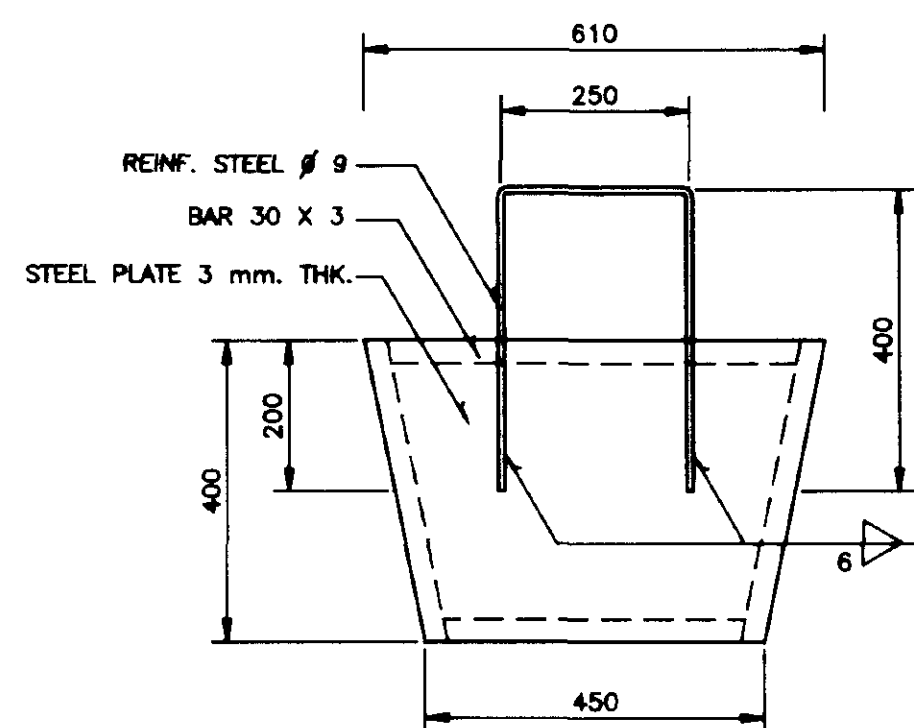
CHECK GATE TYPE G3-1
BACK VIEW
NOT TO SCALE



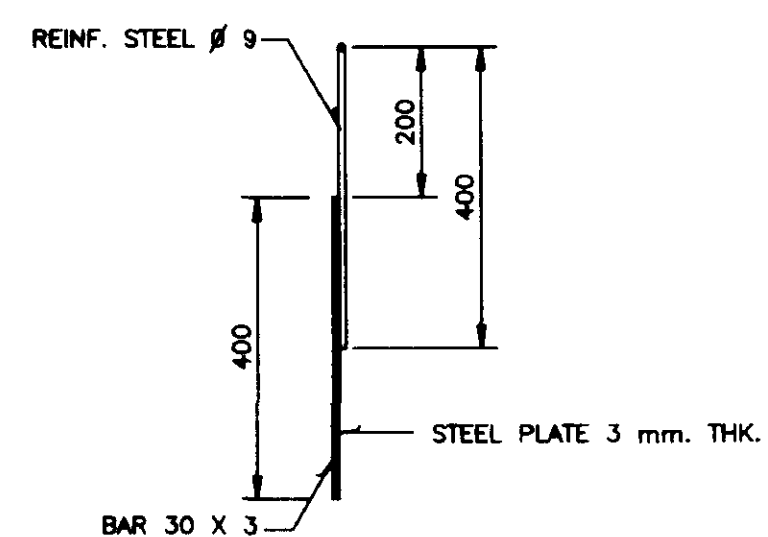
CHECK GATE TYPE G3-1
SECTION D-D
NOT TO SCALE



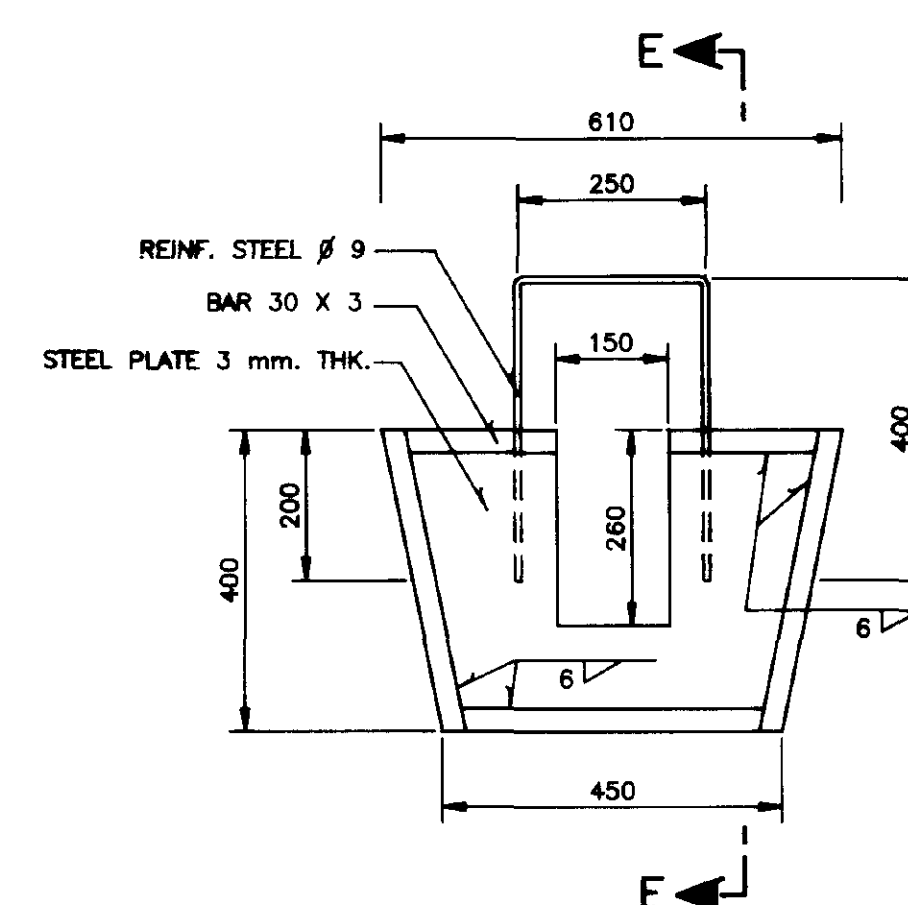
CHECK GATE TYPE G2
FRONT VIEW
NOT TO SCALE



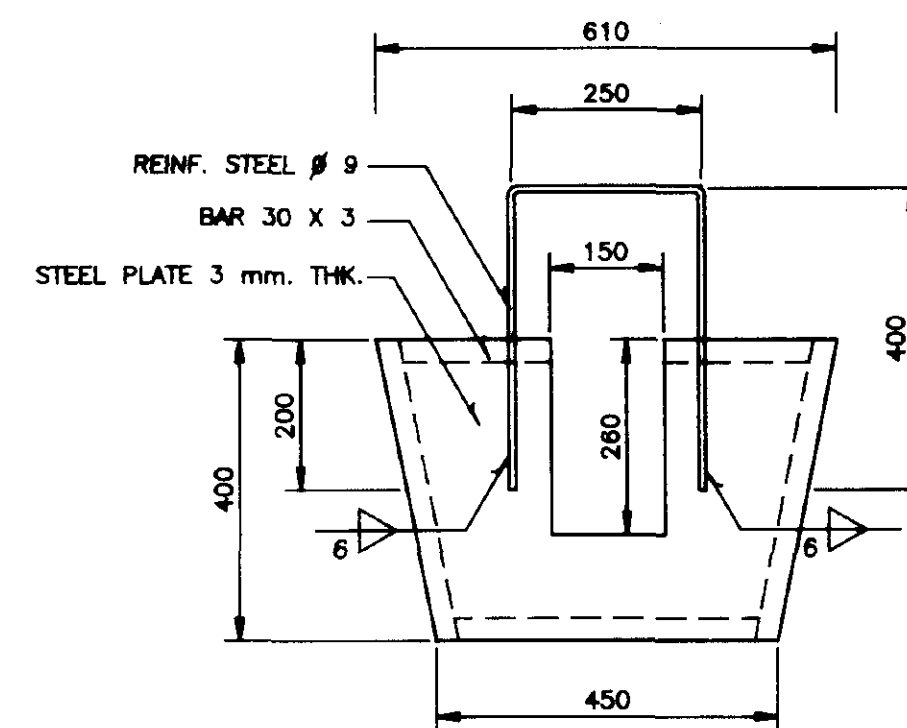
CHECK GATE TYPE G2
BACK VIEW
NOT TO SCALE



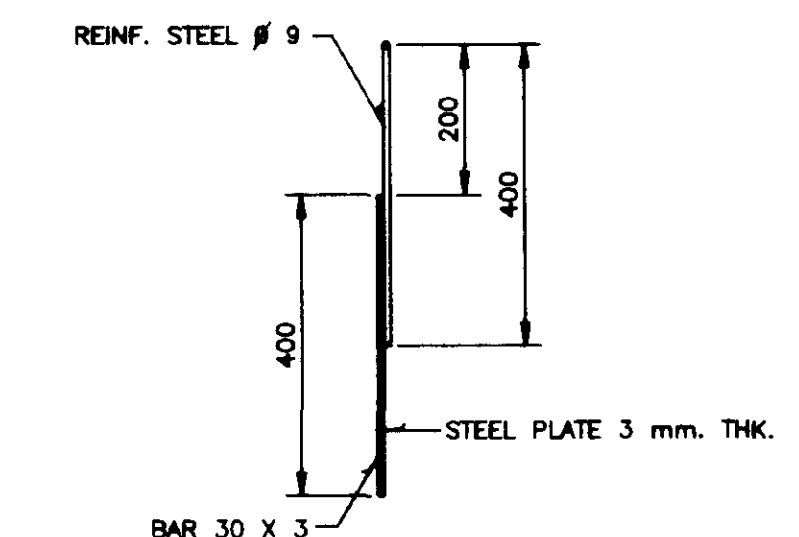
CHECK GATE TYPE G2
SECTION B-B
NOT TO SCALE



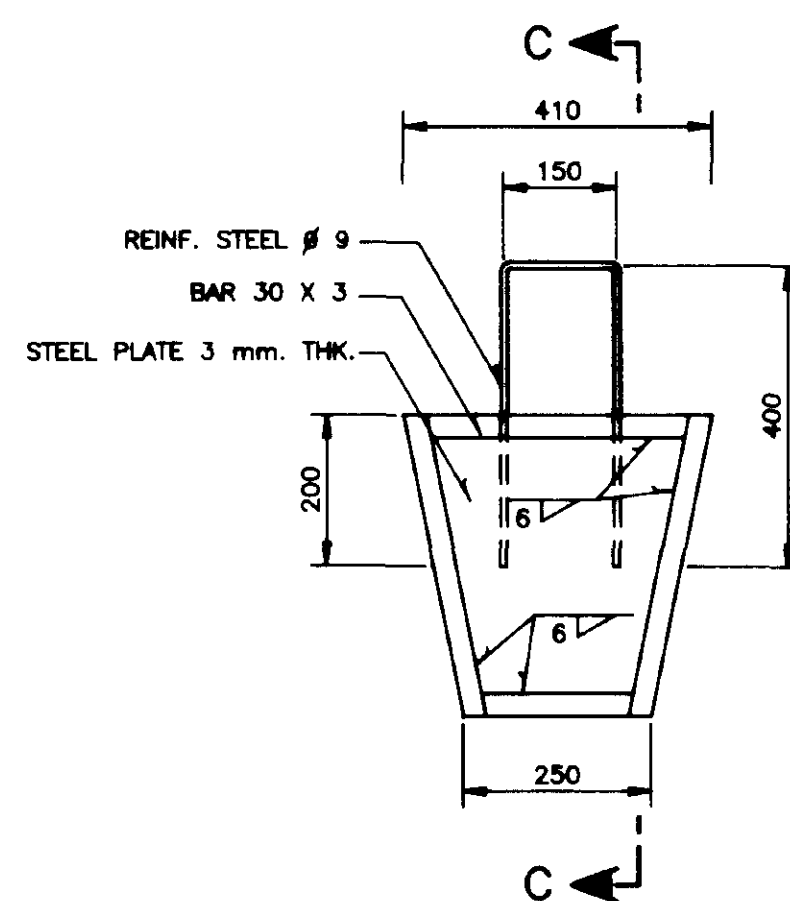
CHECK GATE TYPE G2-1
FRONT VIEW
NOT TO SCALE



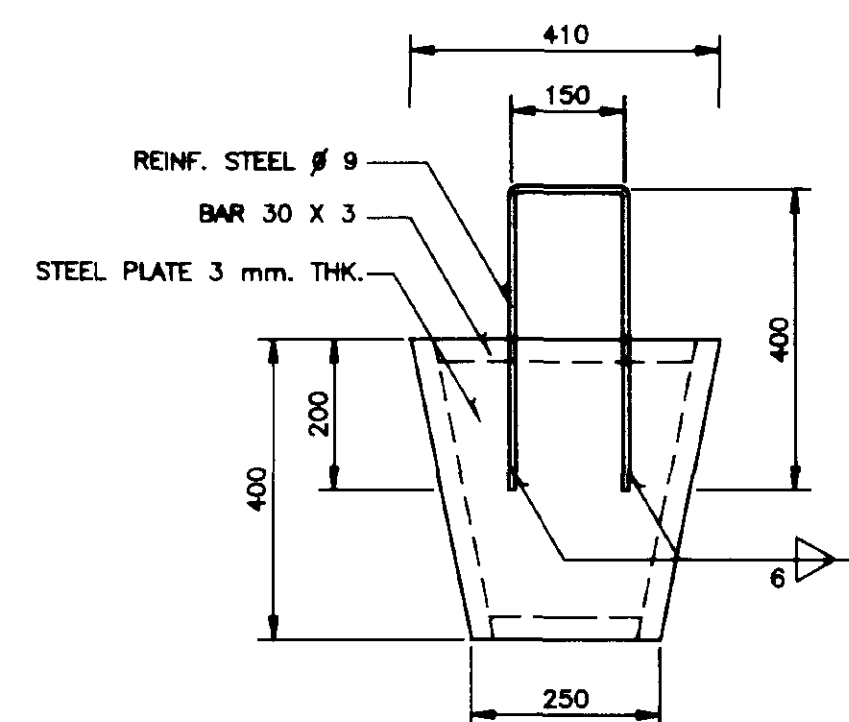
CHECK GATE TYPE G2-1
BACK VIEW
NOT TO SCALE



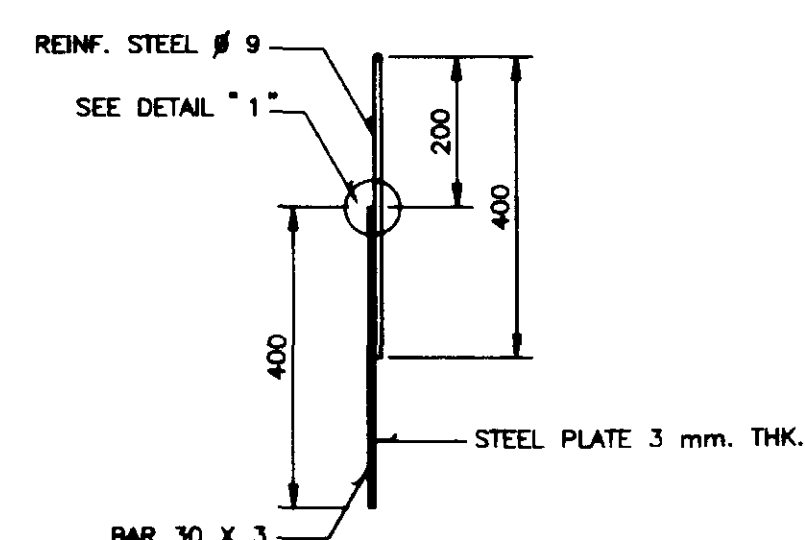
CHECK GATE TYPE G2-1
SECTION E-E
NOT TO SCALE



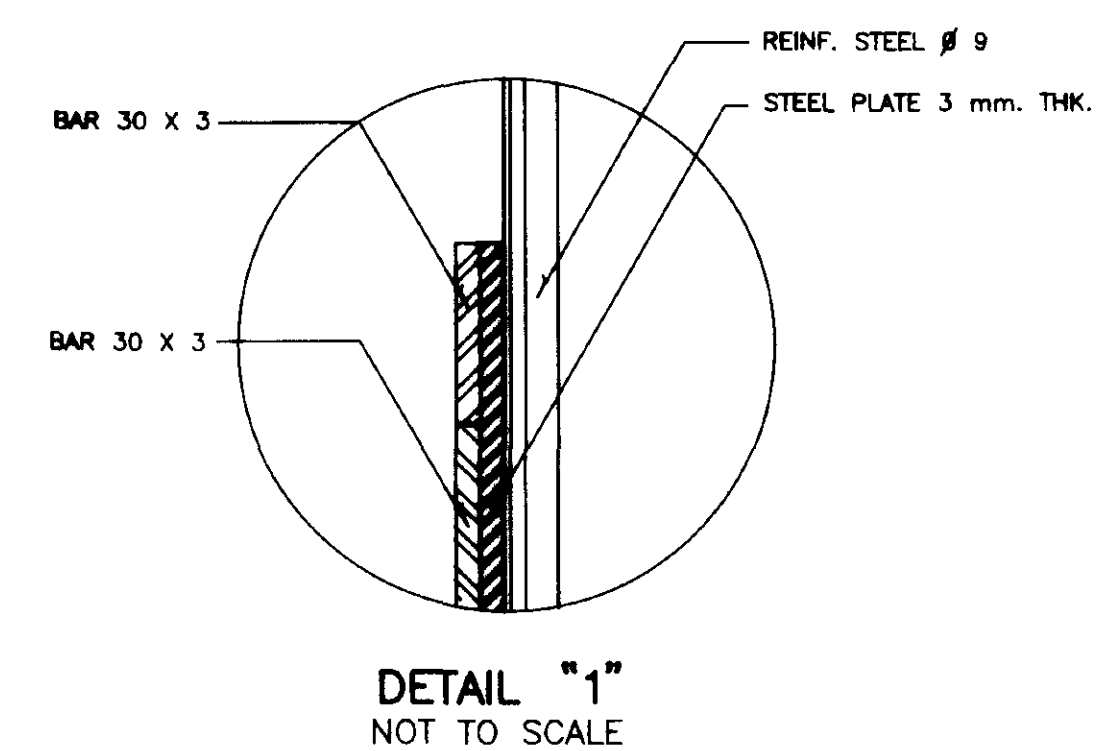
CHECK GATE TYPE G1
FRONT VIEW
NOT TO SCALE



CHECK GATE TYPE G1
BACK VIEW
NOT TO SCALE



CHECK GATE TYPE G1
SECTION C-C
NOT TO SCALE



DETAIL "1"
NOT TO SCALE

NOTES

1. GENERAL NOTES FOR U-SHAPE.....DWG.NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE.....DWG.NO. 145101
3. ALL DIMENSIONS ARE IN MILLIMETER UNLESS OTHERWISE SHOWN
4. ALL STEEL SURFACES SHALL BE PAINTED, RUST-RESISTANCE PAINT SHALL BE APPLIED IN ONE COAT AND FINISH OIL COLOR PAINT SHALL BE APPLIED IN TWO COATS.

ROYAL IRRIGATION DEPARTMENT

ON-FARM IRRIGATION SYSTEM TYPICAL CHECK GATE FOR U-SHAPE

FRONT VIEW, BACK VIEW, SECTIONS AND DETAIL

DESIGNED	REVIEWED	SUBMITTED	CS.
DRAWN	REVIEWED	REVIEWED	DDD.
TRACED	RECOMMENDED	RECOMMENDED	DD.
CHECKED	APPROVED	APPROVED	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE
CHECKED	REVIEWED	APPROVED	DATE
SUBMITTED	RECOM.	APPROVED	DATE
DESIGN DIVISION	ON-FARM DESIGN BRANCH	DATE	145110

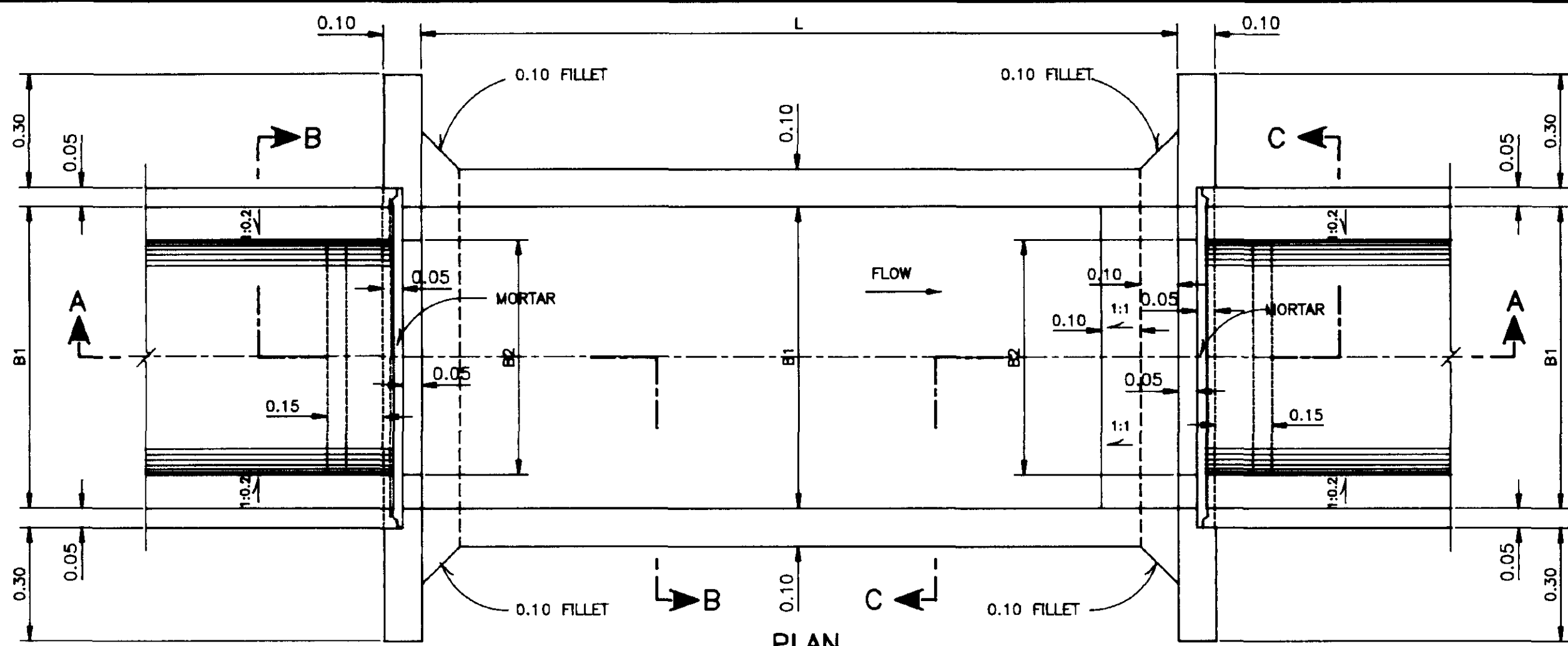
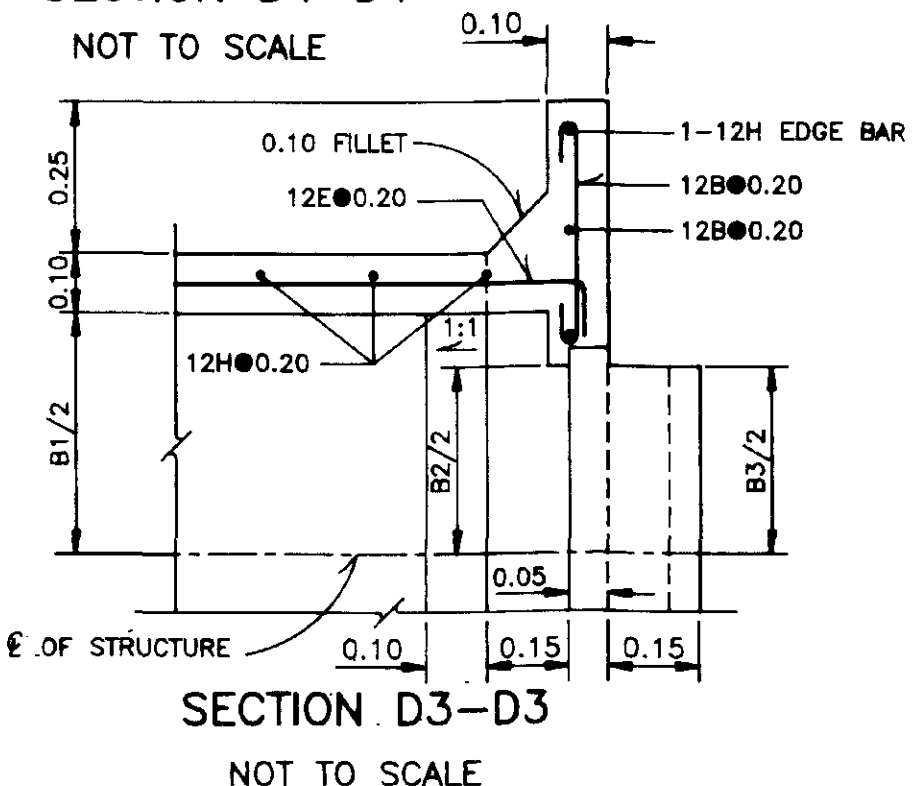
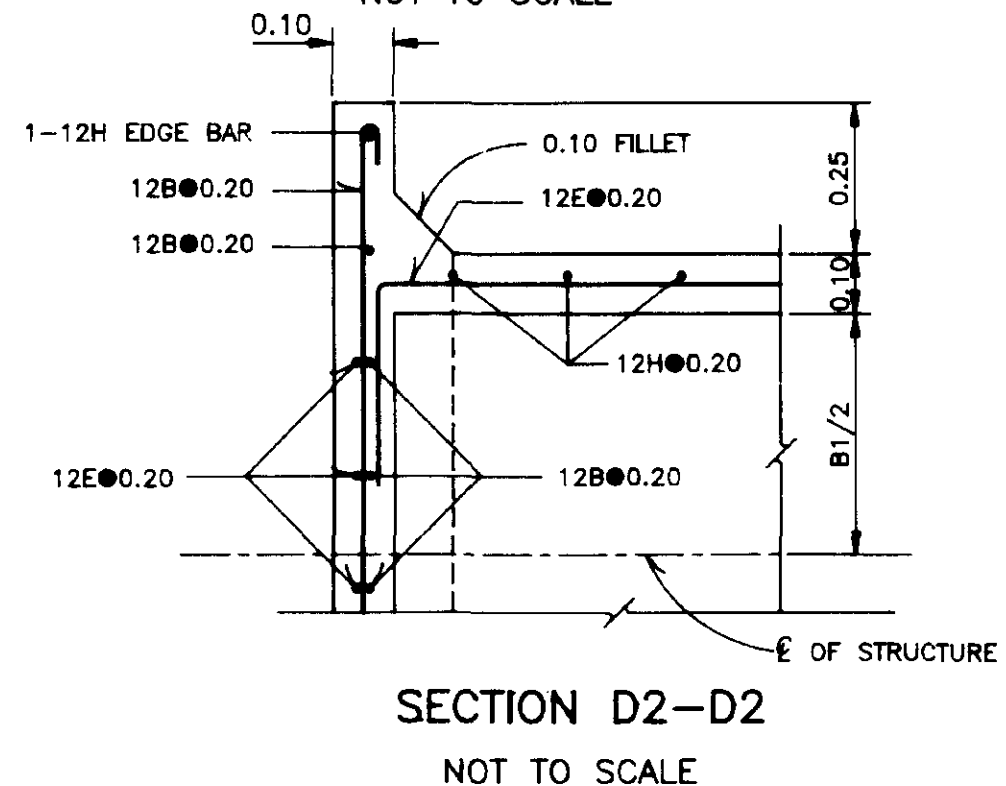
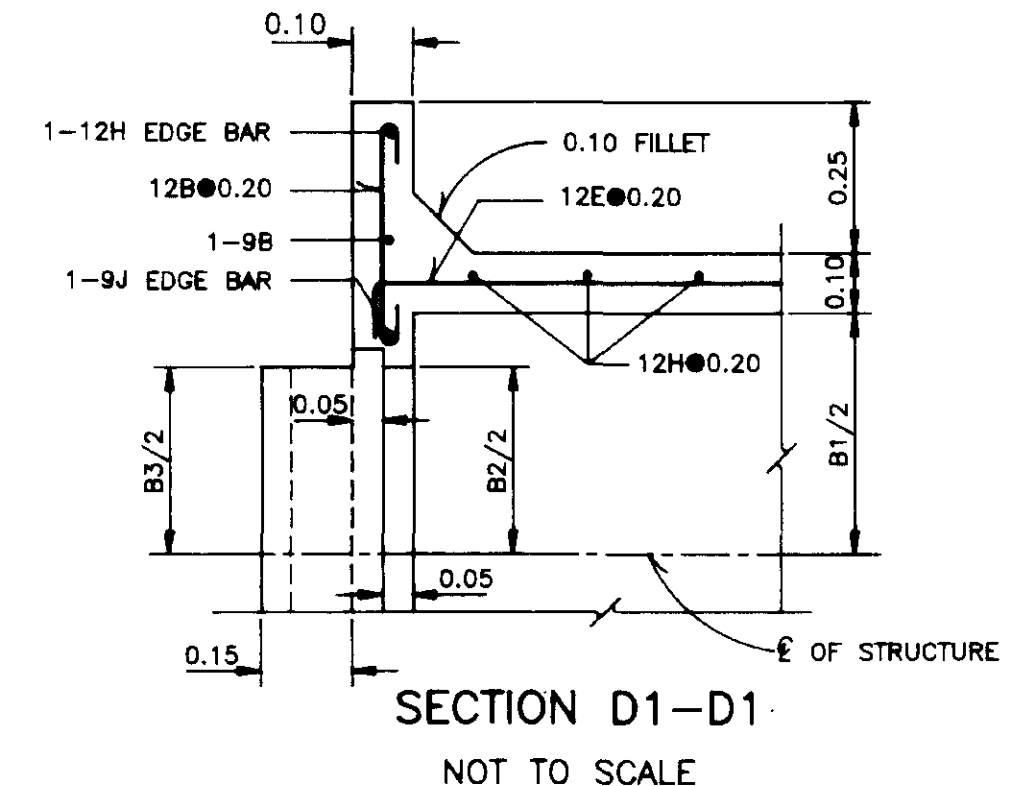
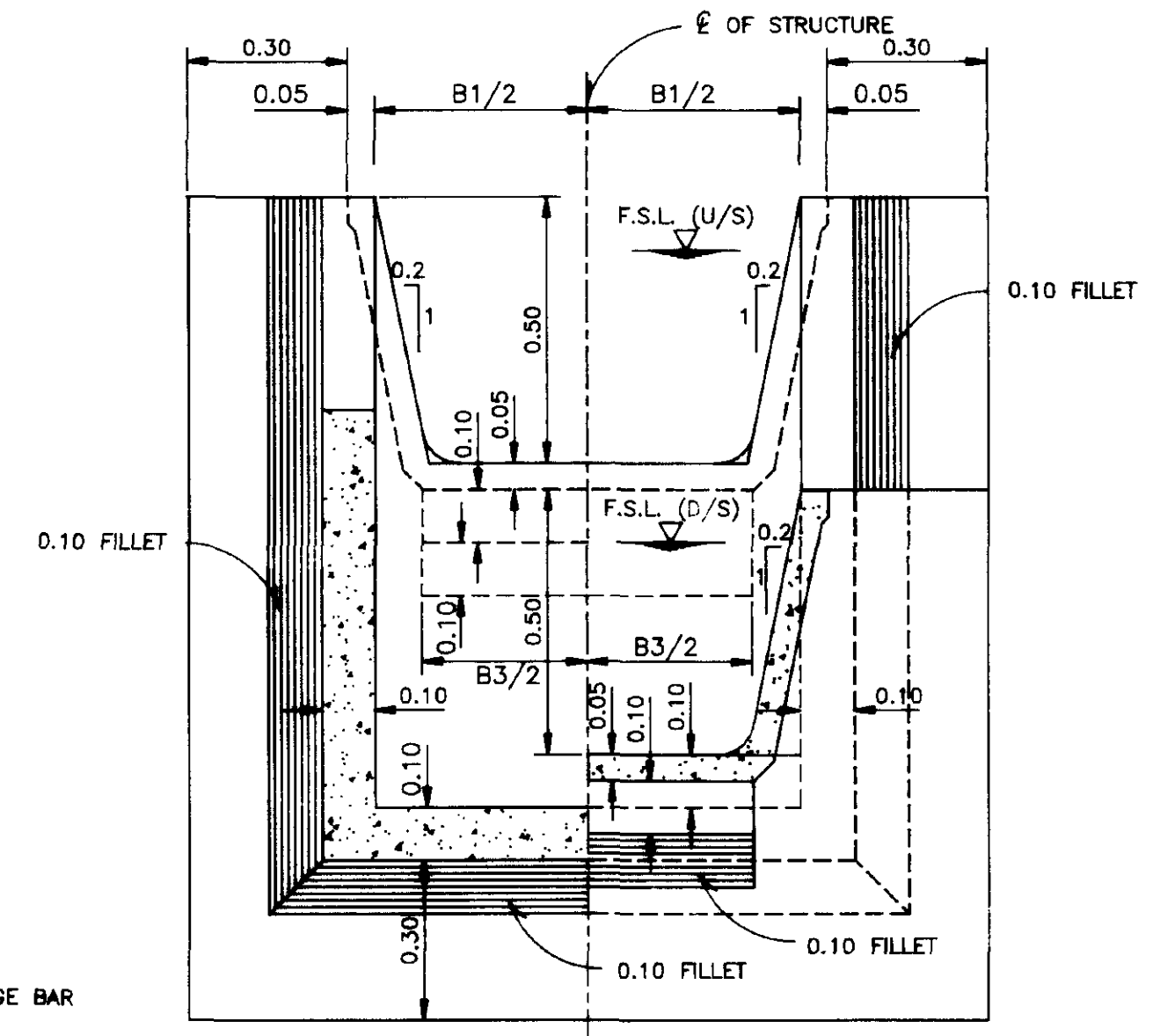
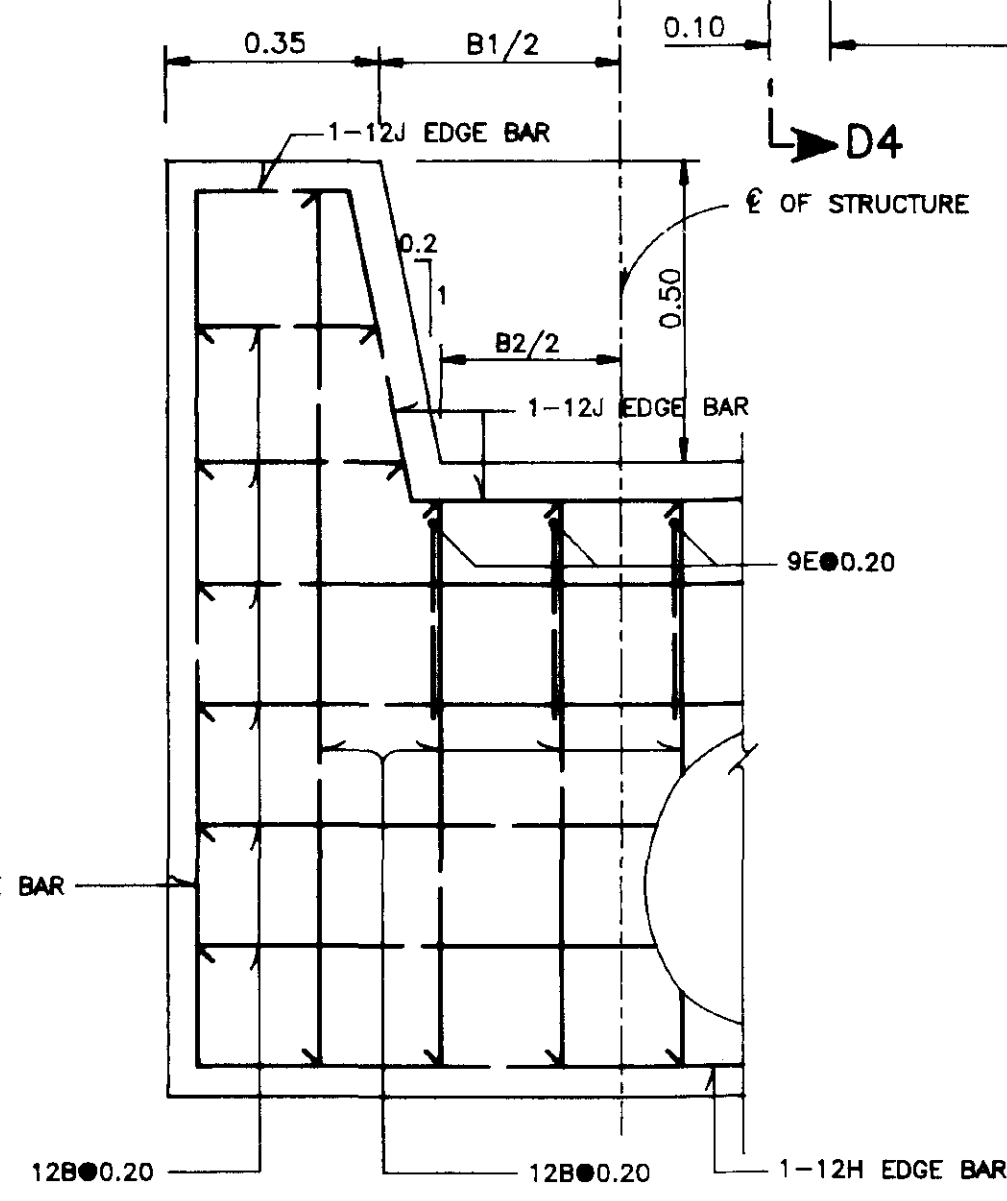
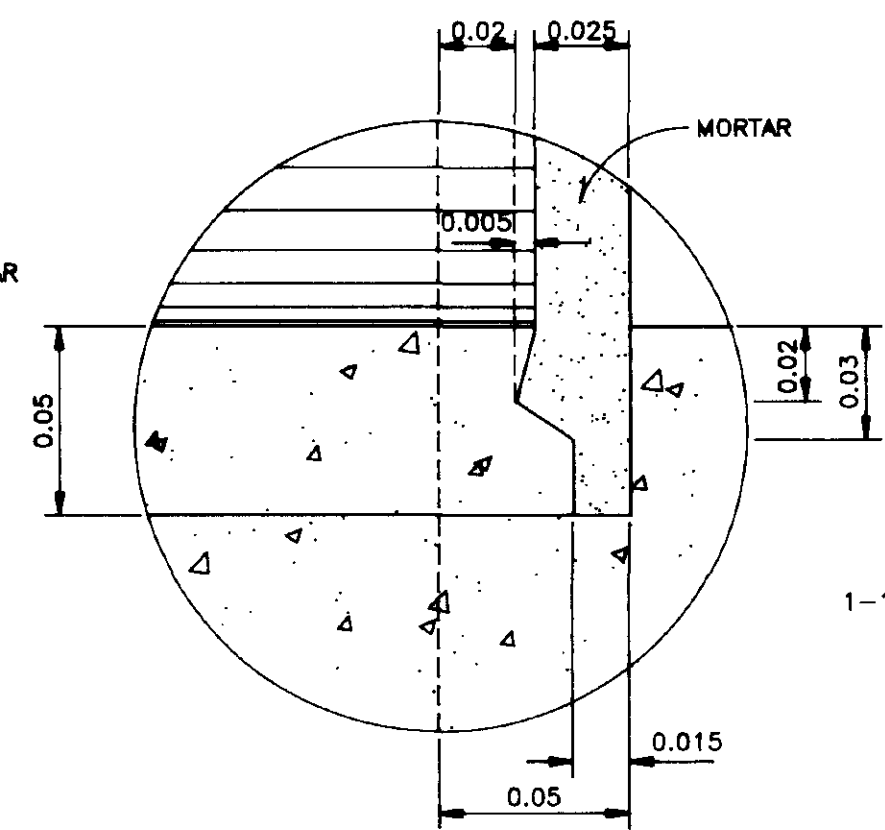
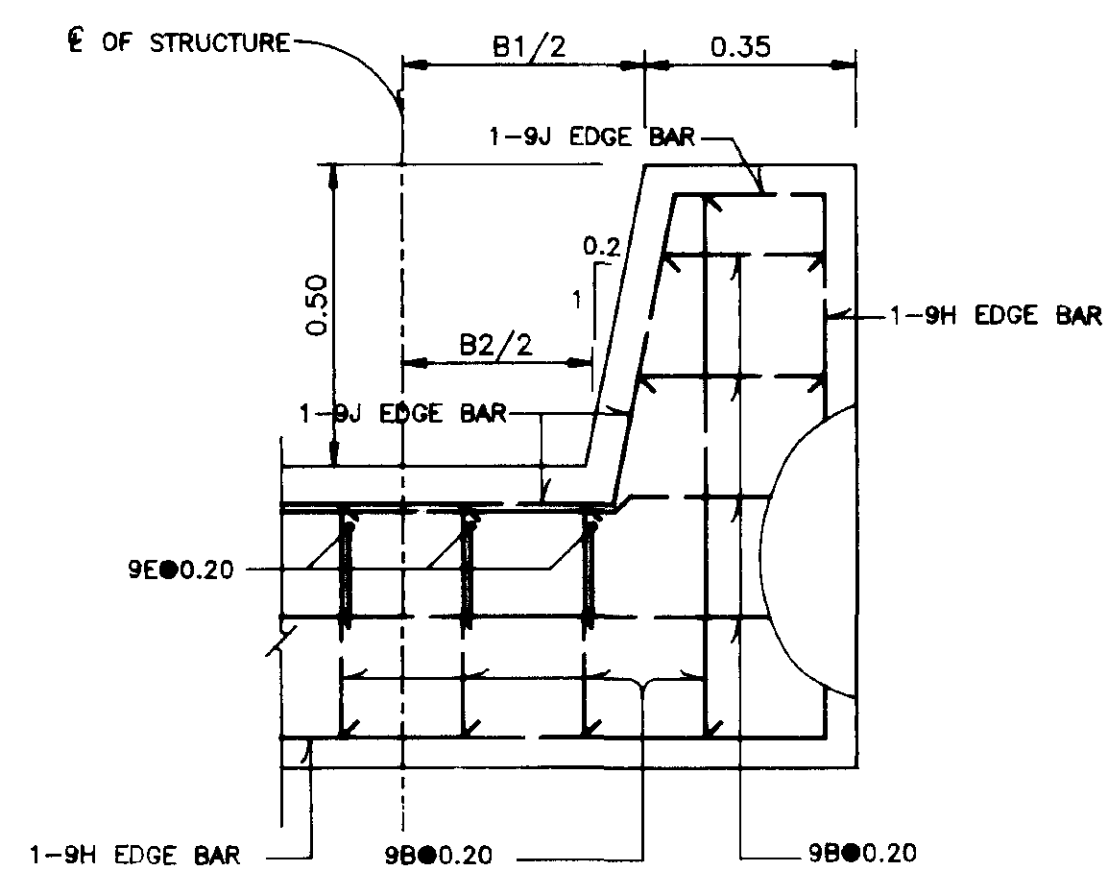
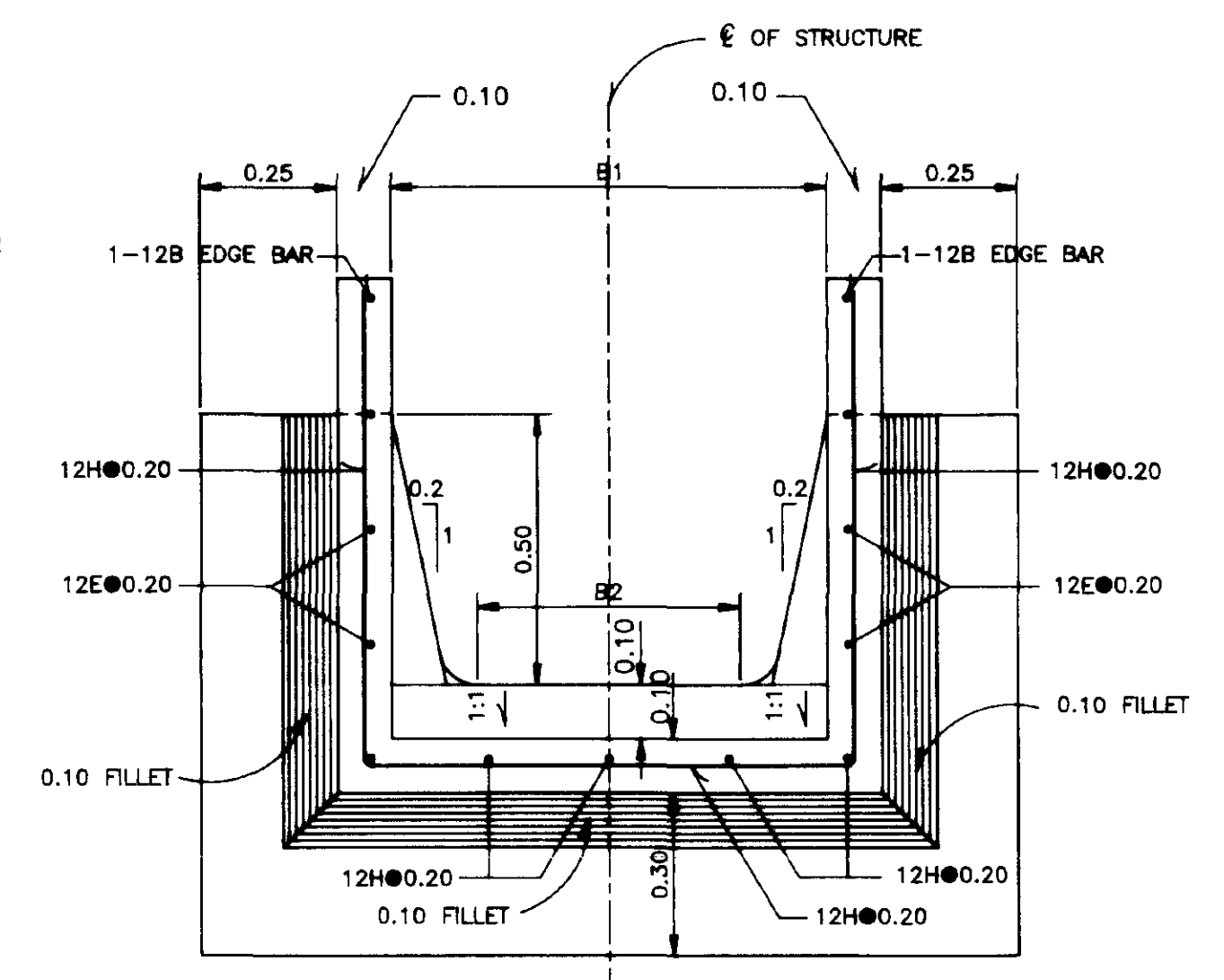
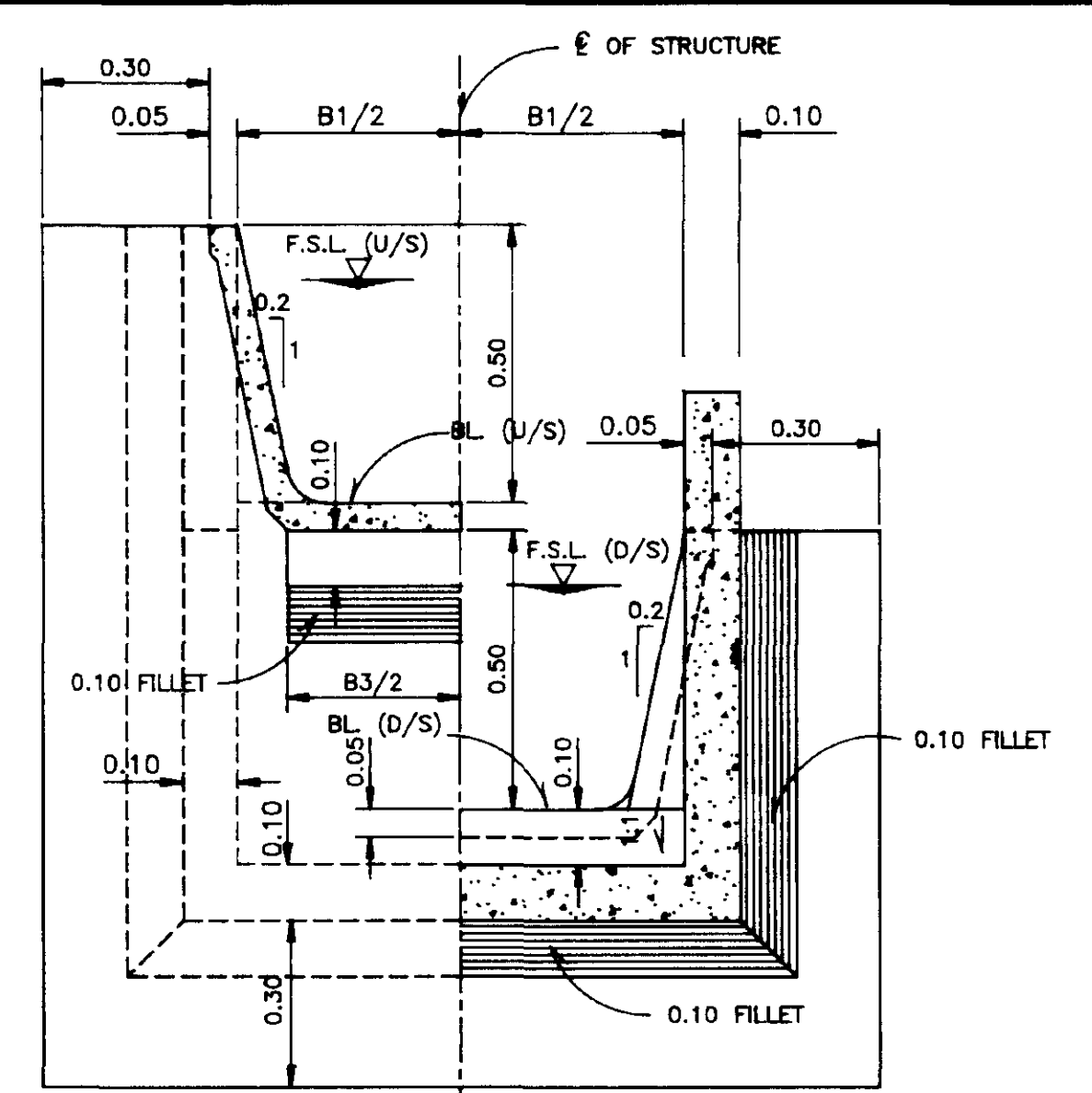
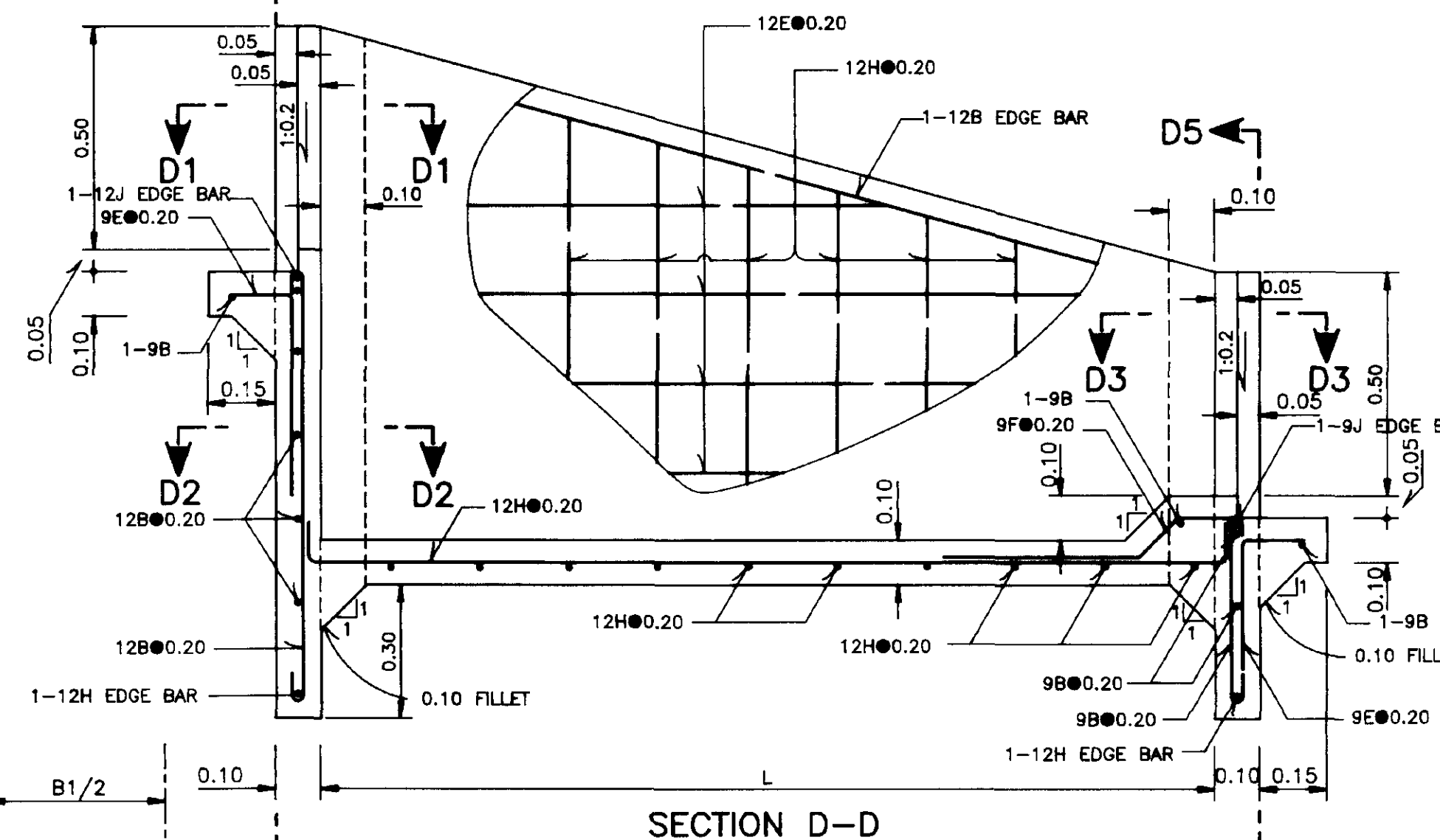
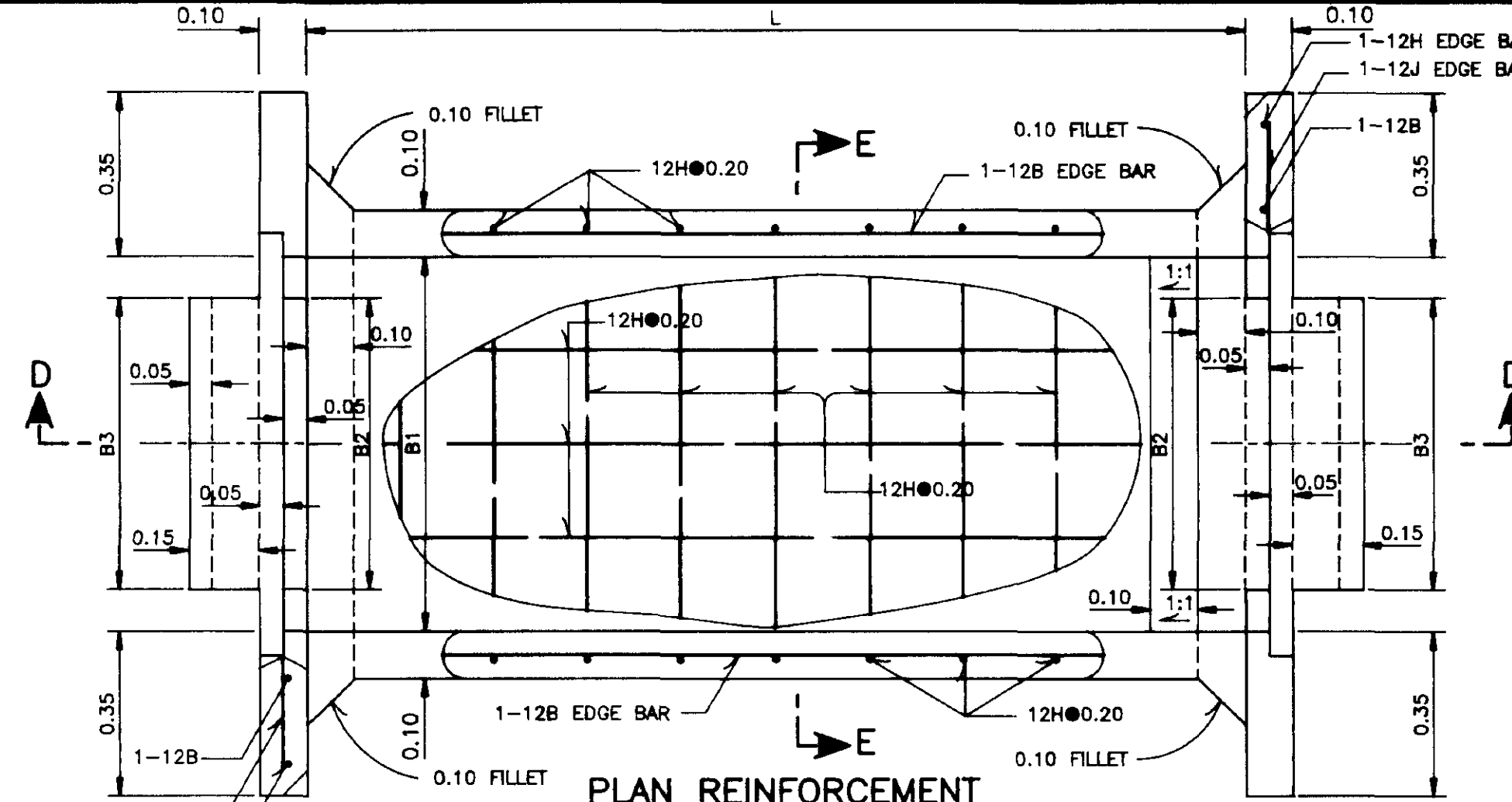
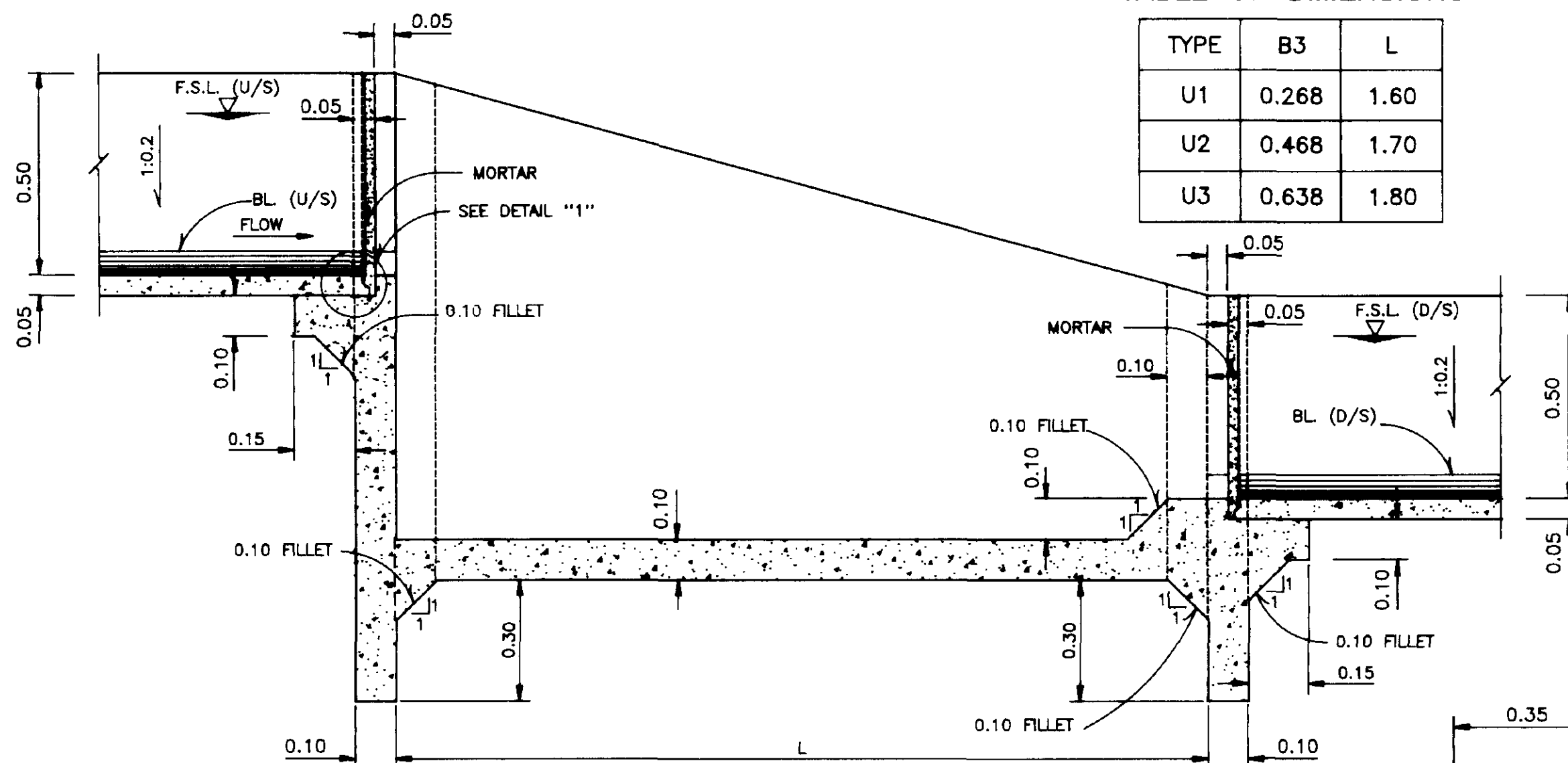


TABLE OF DIMENSIONS

TYPE	B3	L
U1	0.268	1.60
U2	0.468	1.70
U3	0.638	1.80

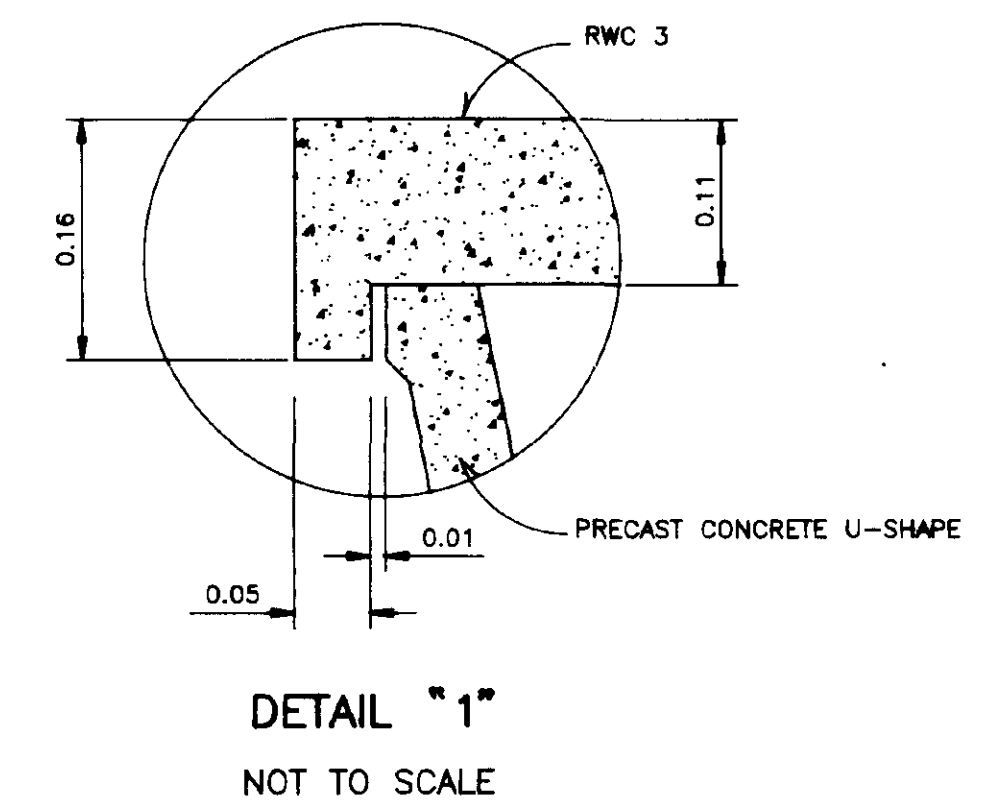
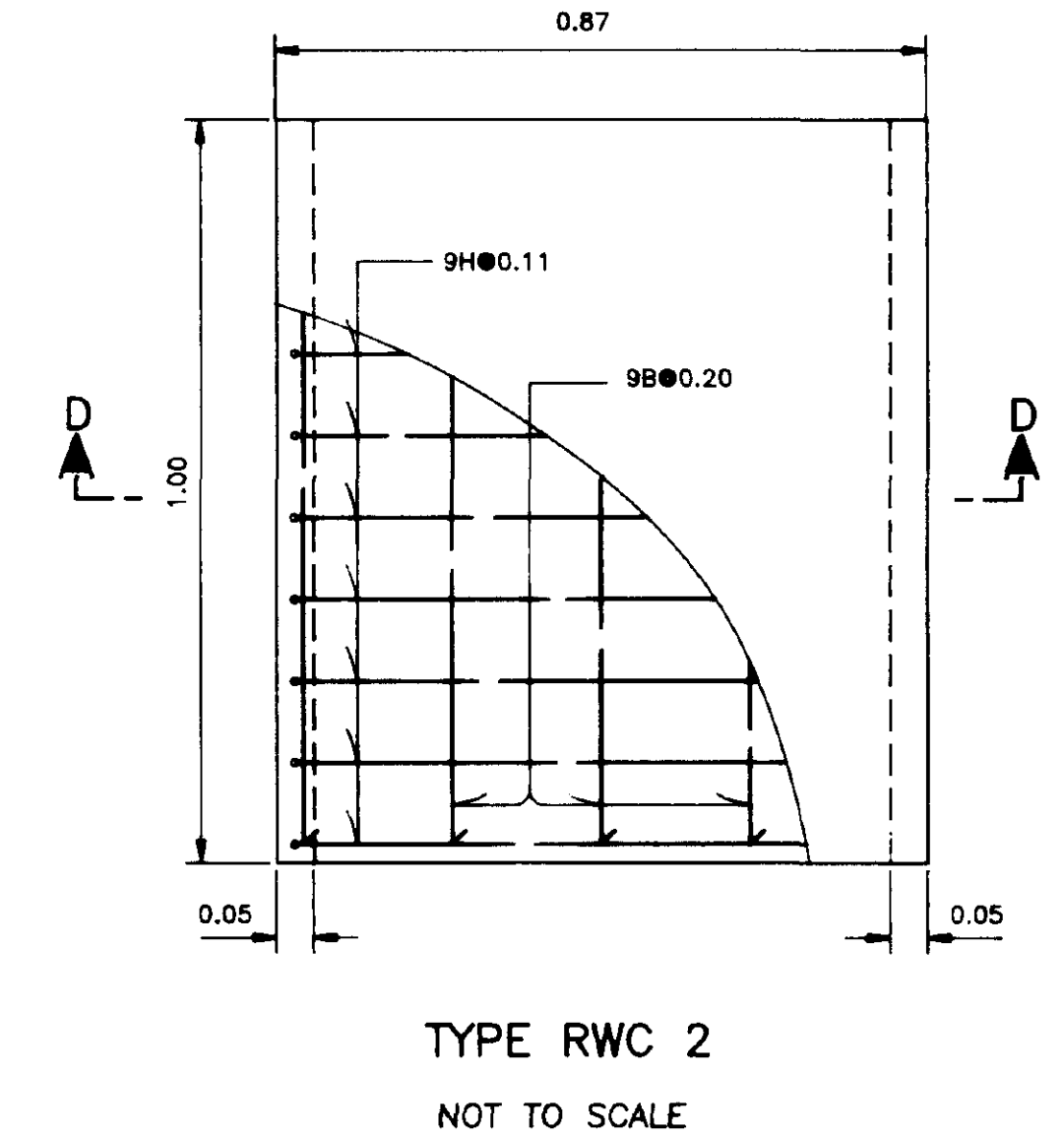
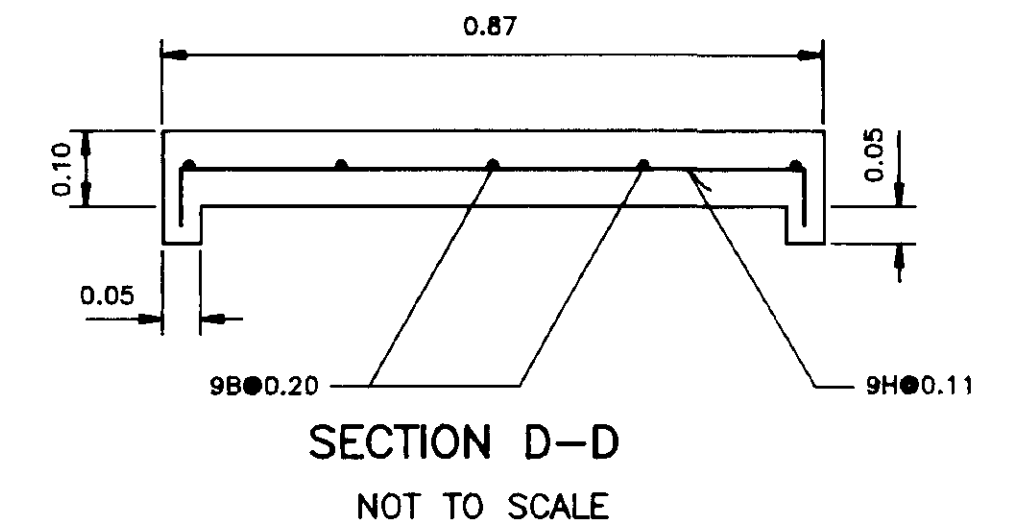
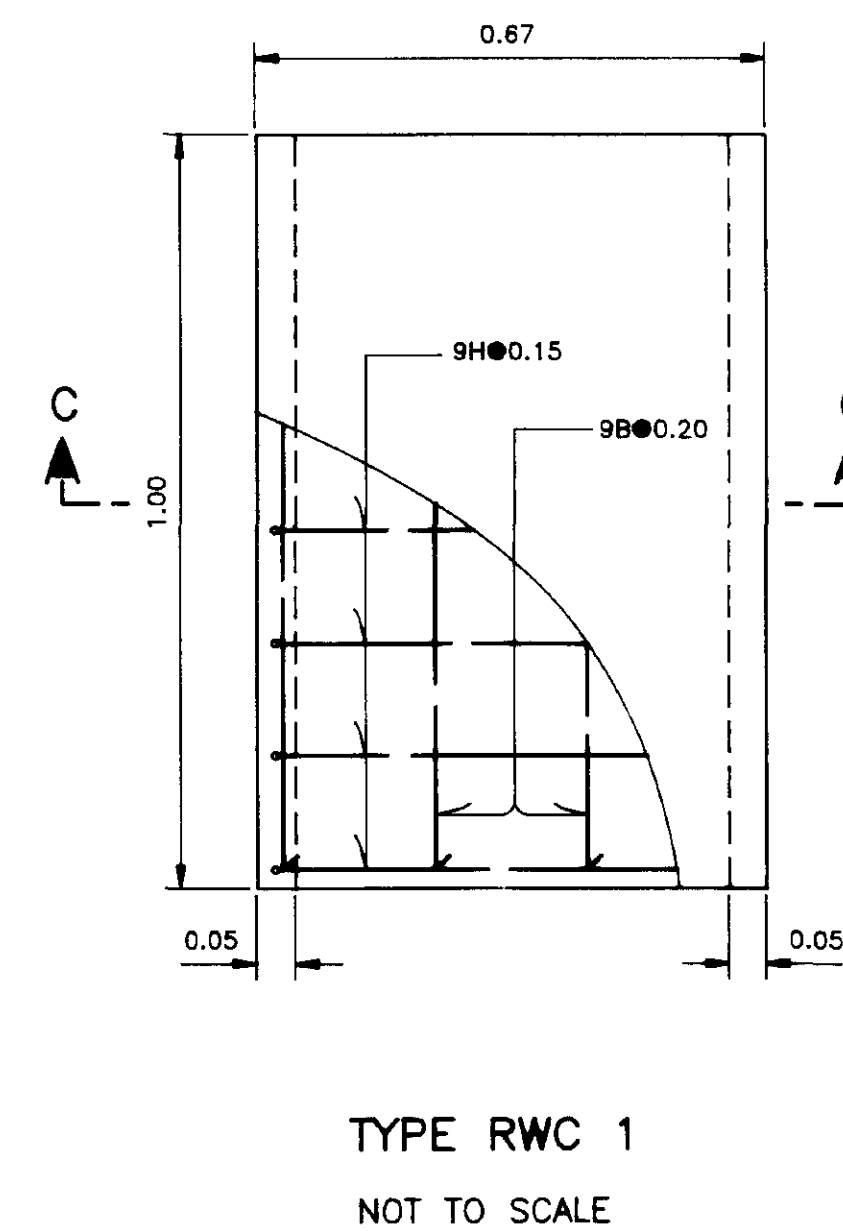
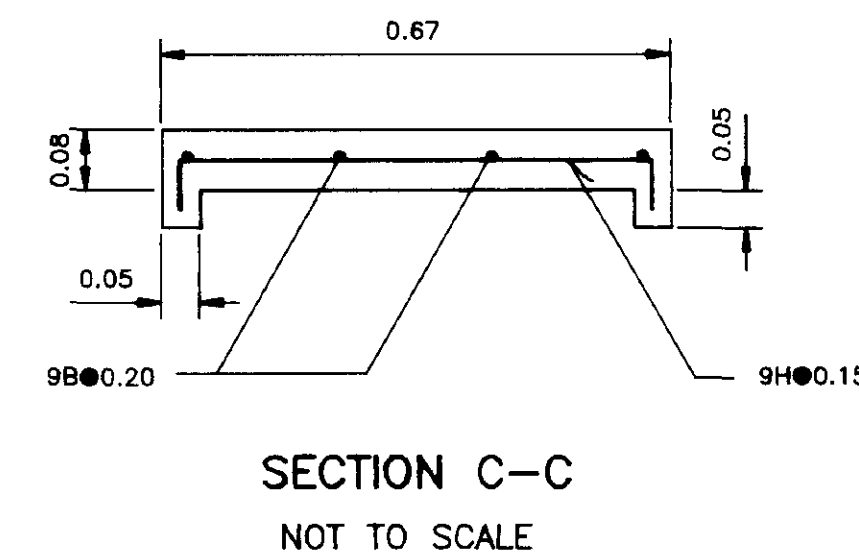
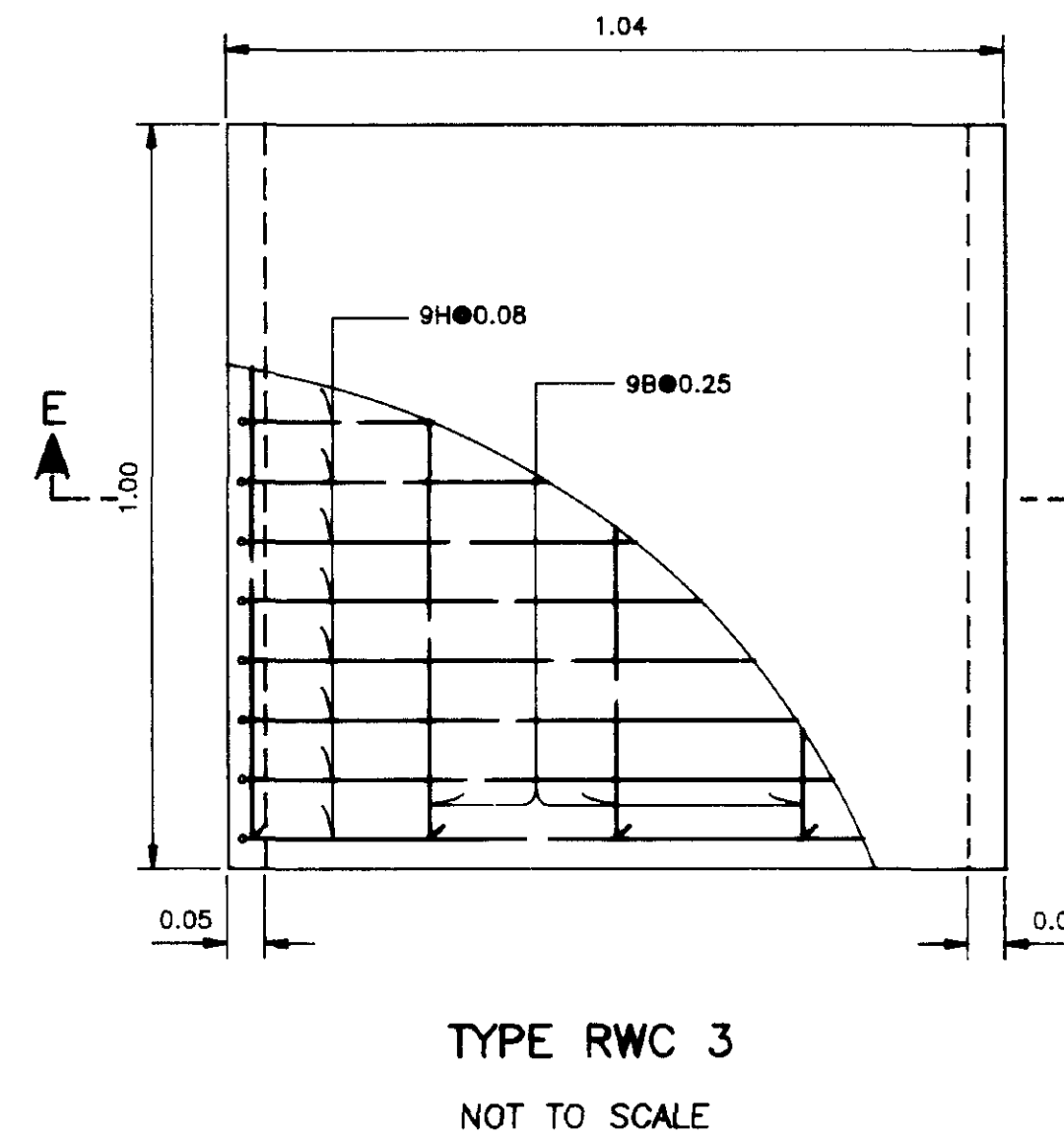
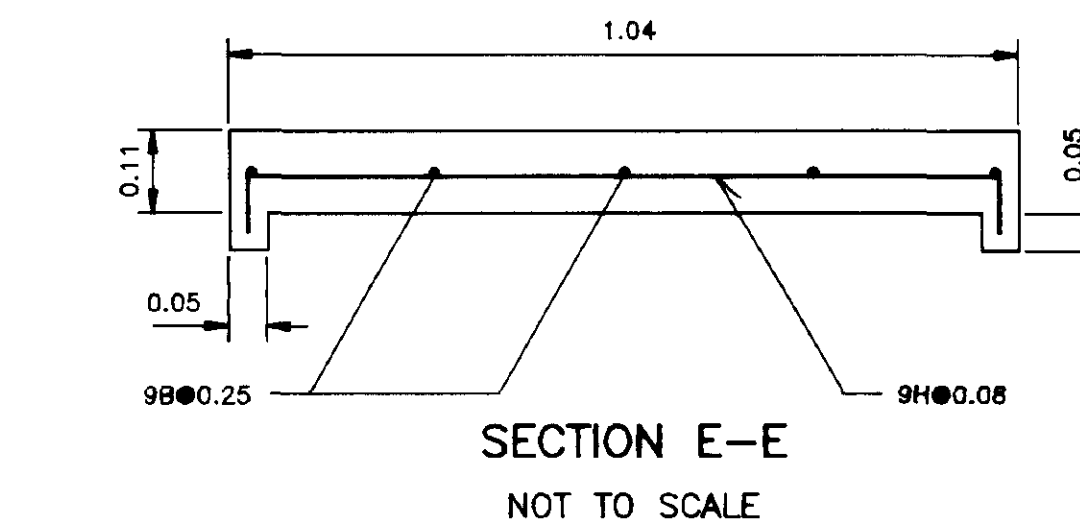
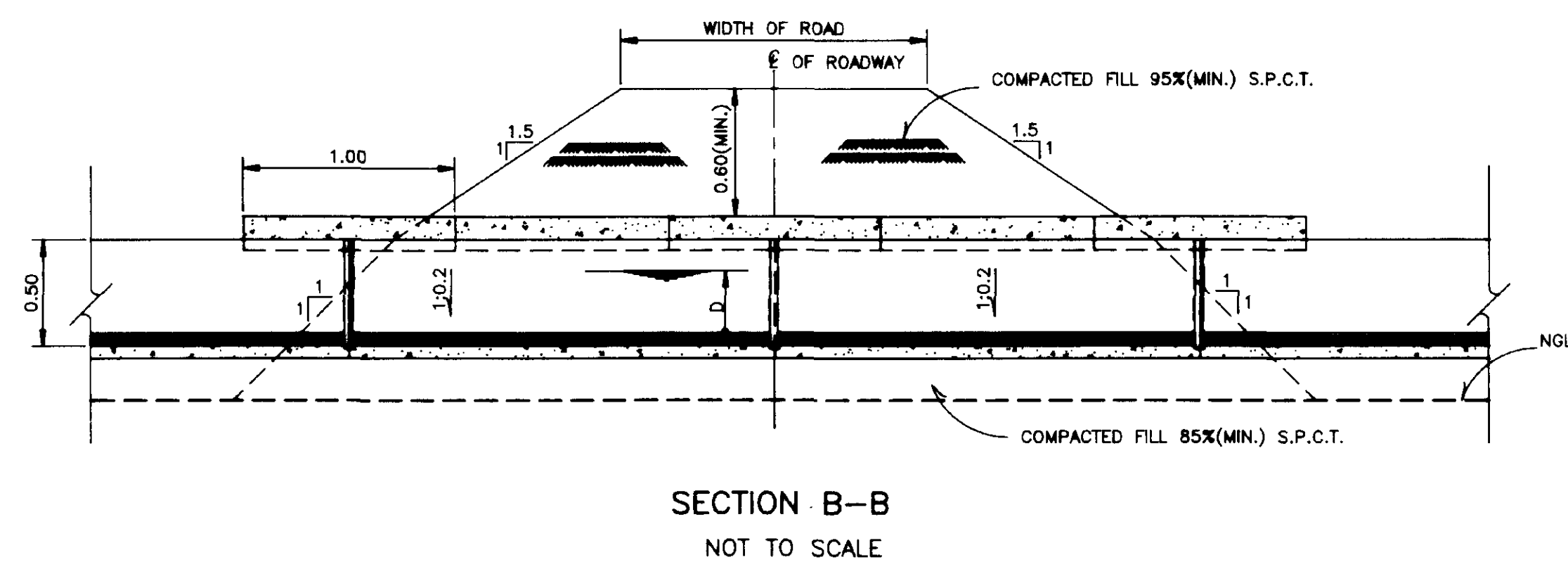
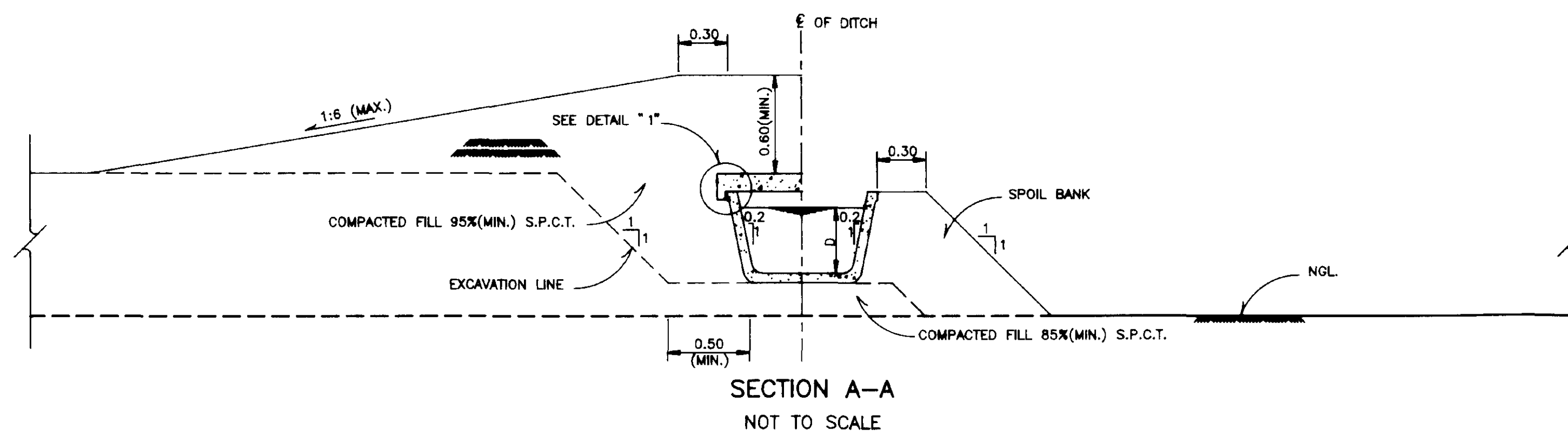
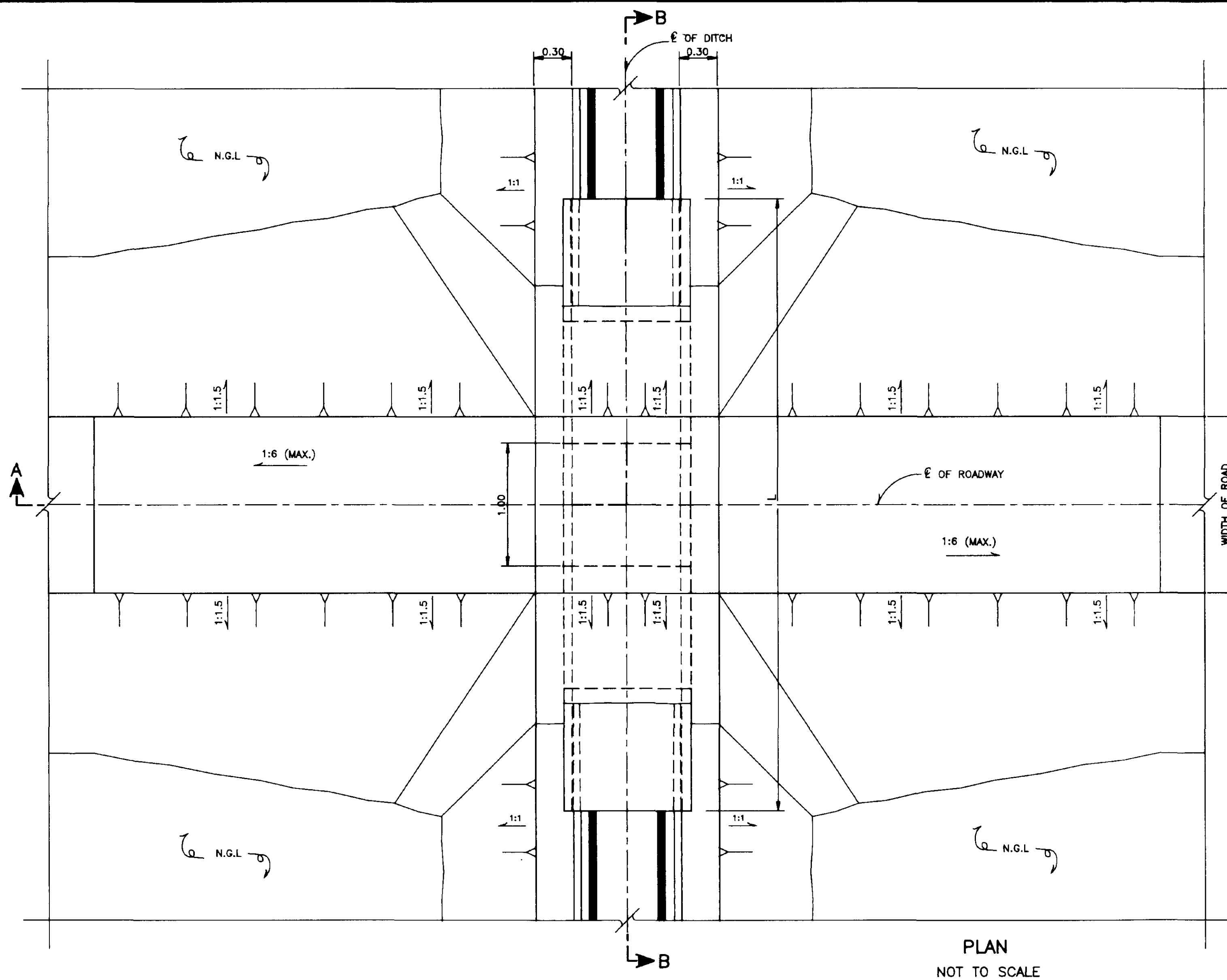


- NOTES**
- GENERAL NOTES FOR U-SHAPE DWG.NO. 145100
 - LEGEND AND ABBREVIATION FOR U-SHAPE DWG.NO. 145101
 - ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
 - DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
- REFERENCE DRAWINGS**
- JOINT AND CONNECTION DETAIL DWG.NO. 145103

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL VERTICAL DROP STRUCTURE
FOR U-SHAPE
PLAN,SECTION AND DETAILS

DESIGNED	<i>N. Abayaratne</i>	SUBMITTED	<i>N. Abayaratne</i>	CS.
DRAWN	<i>N. Abayaratne</i>	REVIEWED	<i>P. O. P. M.</i>	DD.
TRACED	<i>Rajendra Kumar</i>	RECOMMENDED	<i>Chella Vardan</i>	DD.
CHECKED	<i>N. Abayaratne</i>	APPROVED	<i>[Signature]</i>	DG.

REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION ON-FARM DESIGN BRANCH	DATE	145111
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NOTES

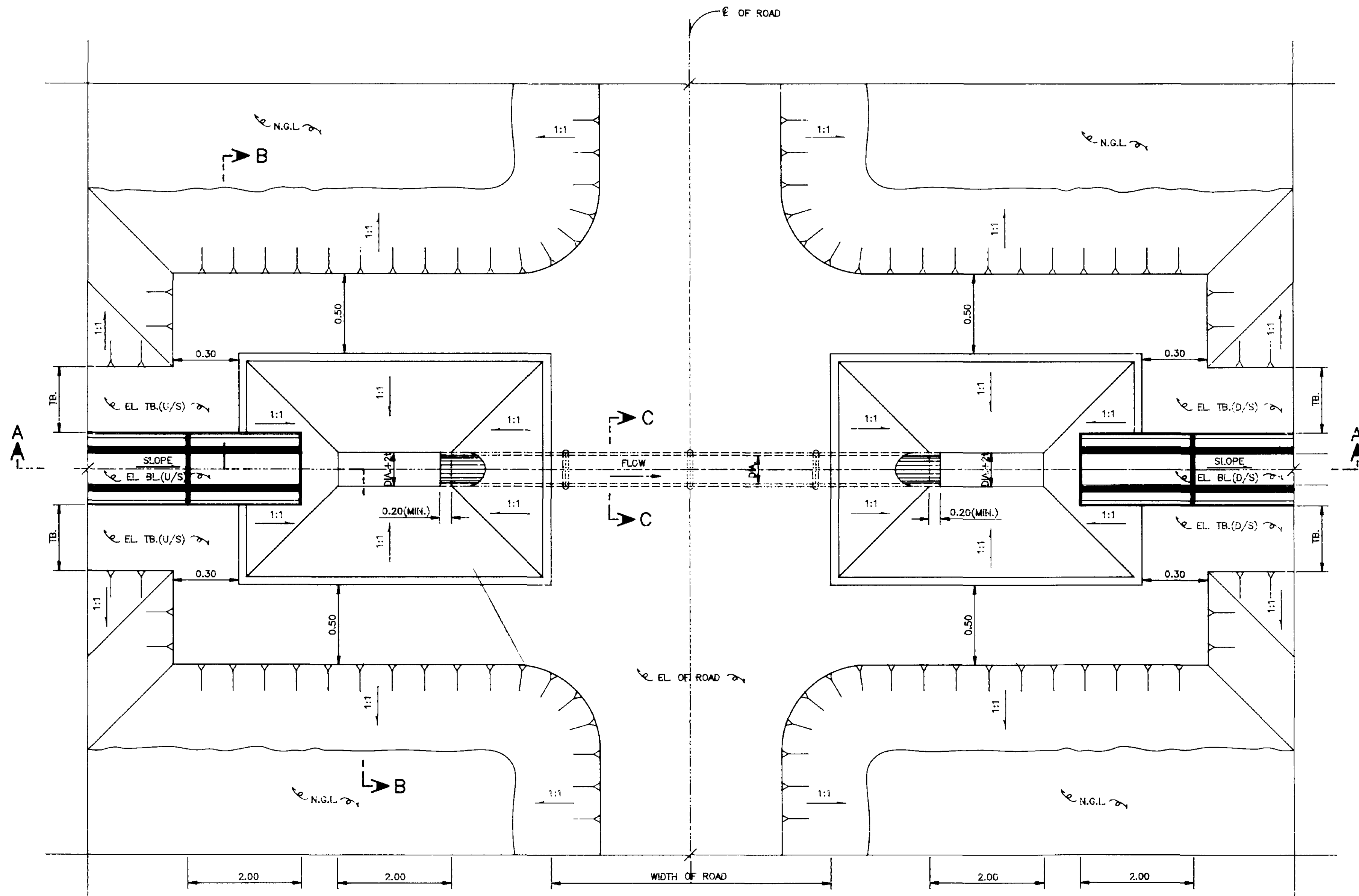
1. GENERAL NOTES FOR U-SHAPE ----- DWG.NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE ----- DWG.NO. 145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
5. FOR LENGTH "L" SHOWN IN LONGITUDINAL PROFILE

REFERENCE DRAWINGS

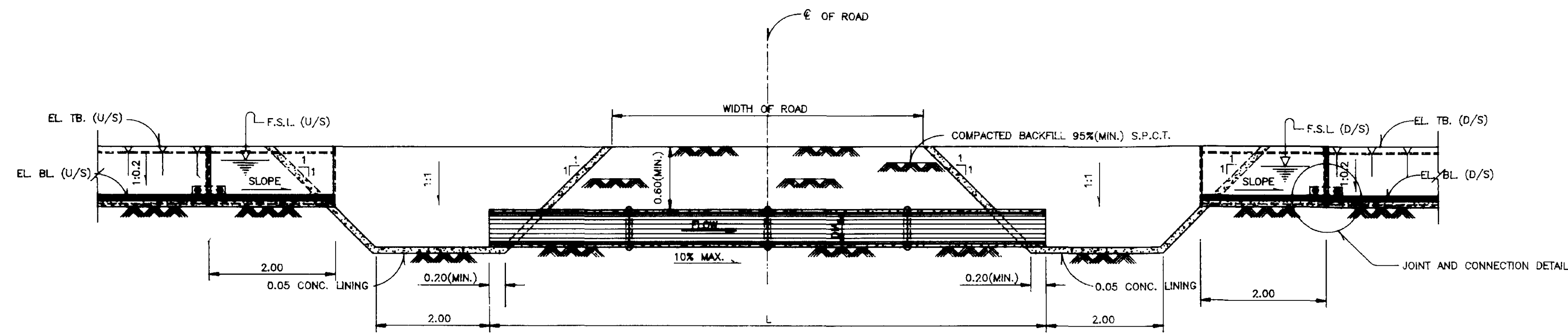
1. JOINT AND CONNECTION DETAIL ----- DWG.NO. 145103

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL ROADWAY CROSSING STRUCTURE
FOR U-SHAPE
PLAN, SECTION AND DETAILS

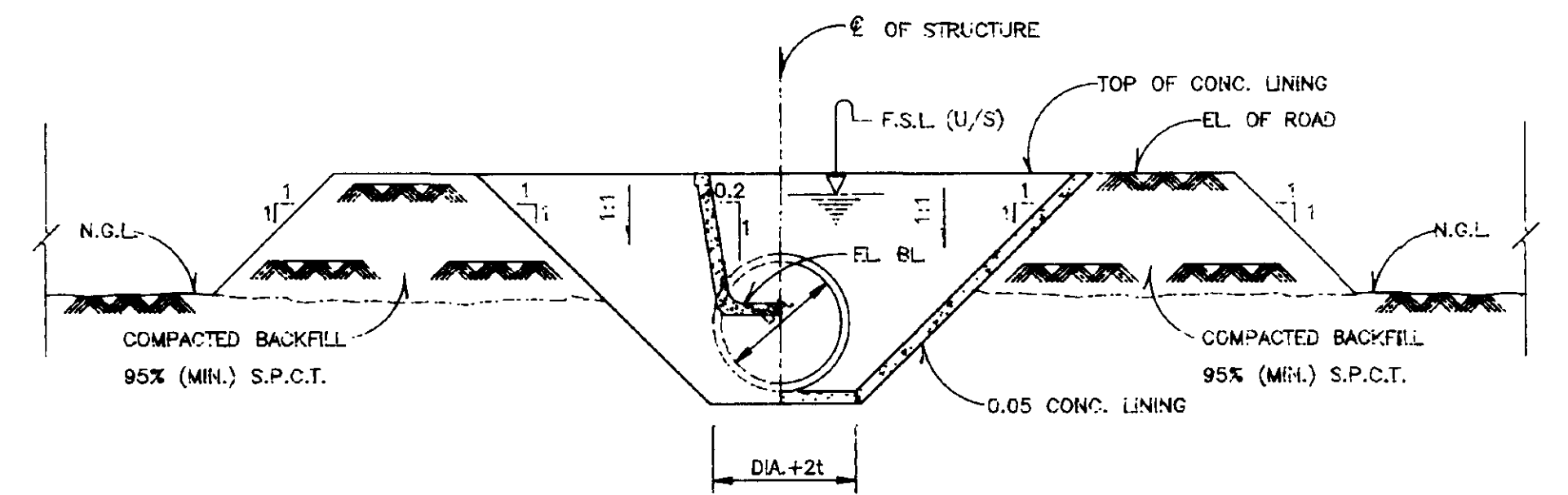
								DESIGNED	M. VEERASAK <i>Tanwong</i>	SUBMITTED	N. Wangsankul	CS.
								DRAWN	M. VEERASAK <i>Tanwong</i>	REVIEWED	B. EL TGA	DDD
								TRACED	Rangsan Tonlornchawan	RECOMMENDED	Ok-ka Kaitum	DD.
								CHECKED	N. Wangsankul	APPROVED	<i>Chun</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION	ON-FARM DESIGN BRANCH	DATE	145112		



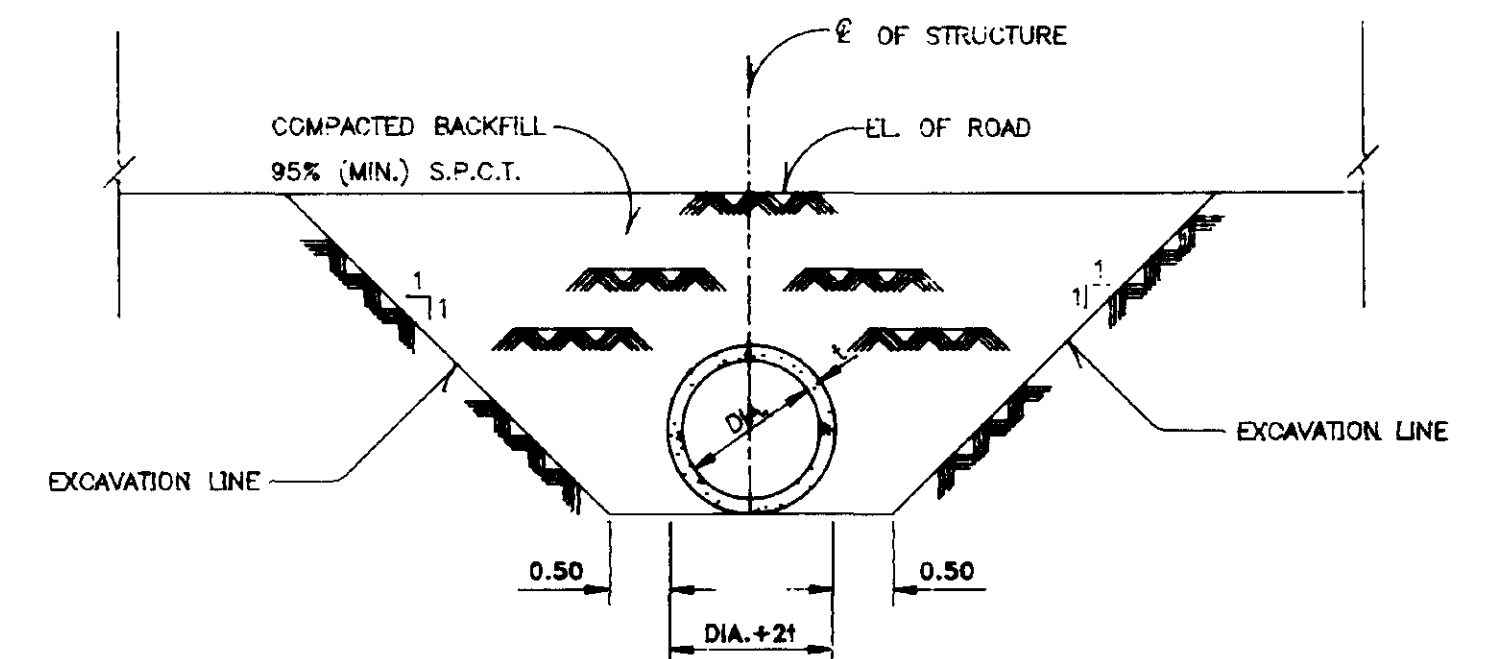
PLAN
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



SECTION C-C
NOT TO SCALE

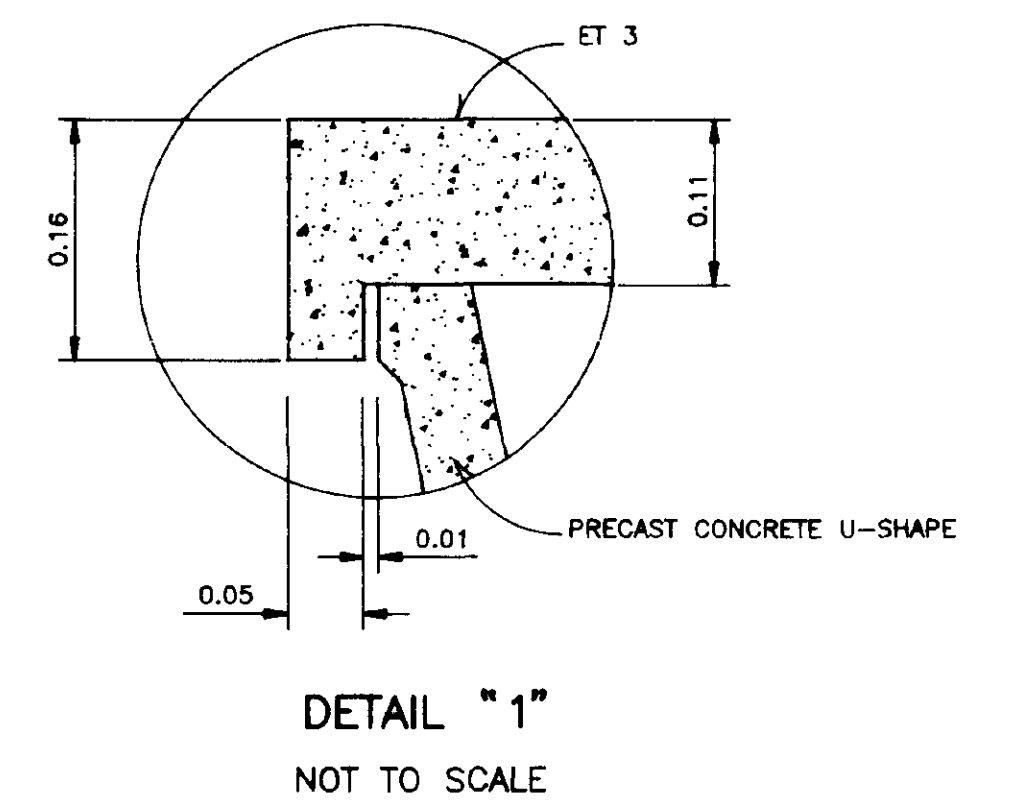
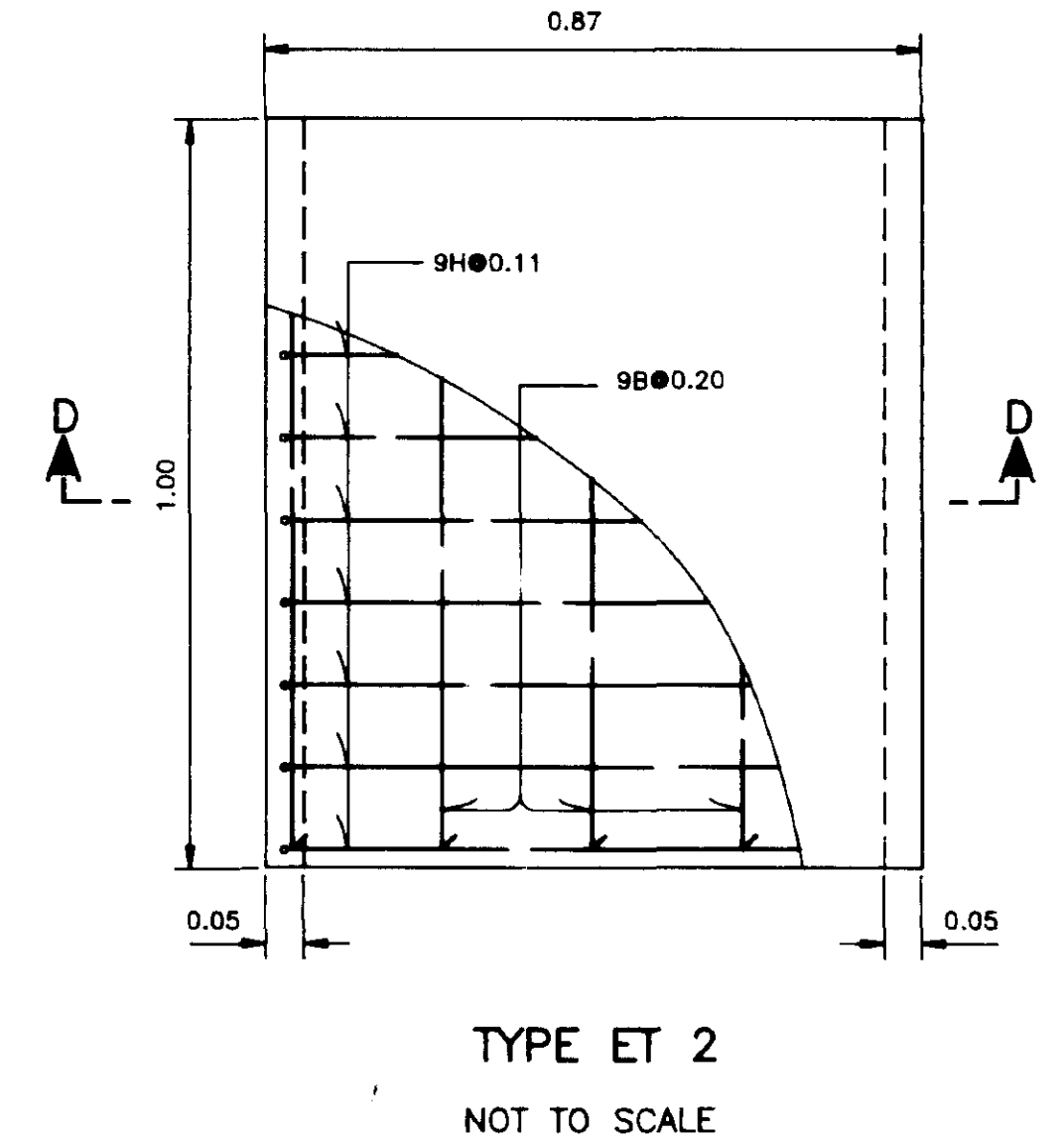
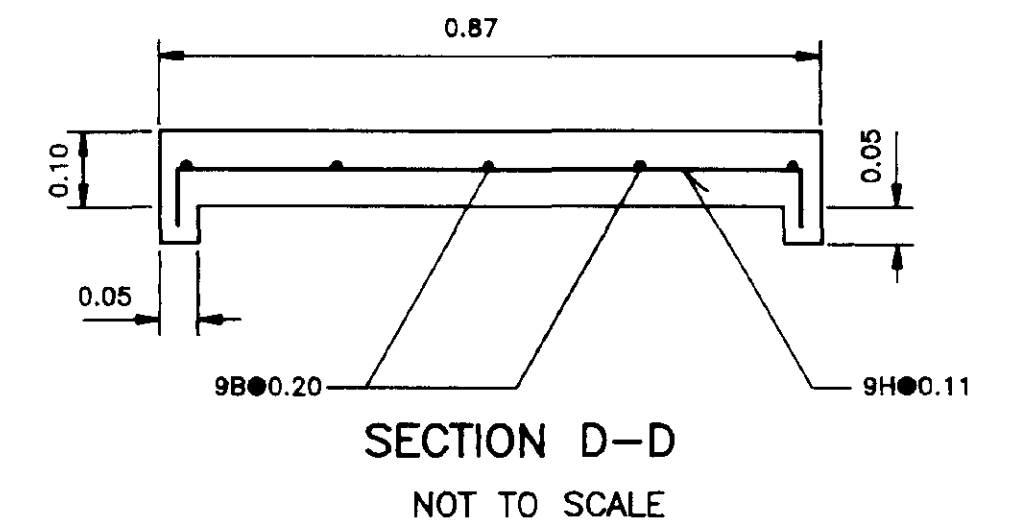
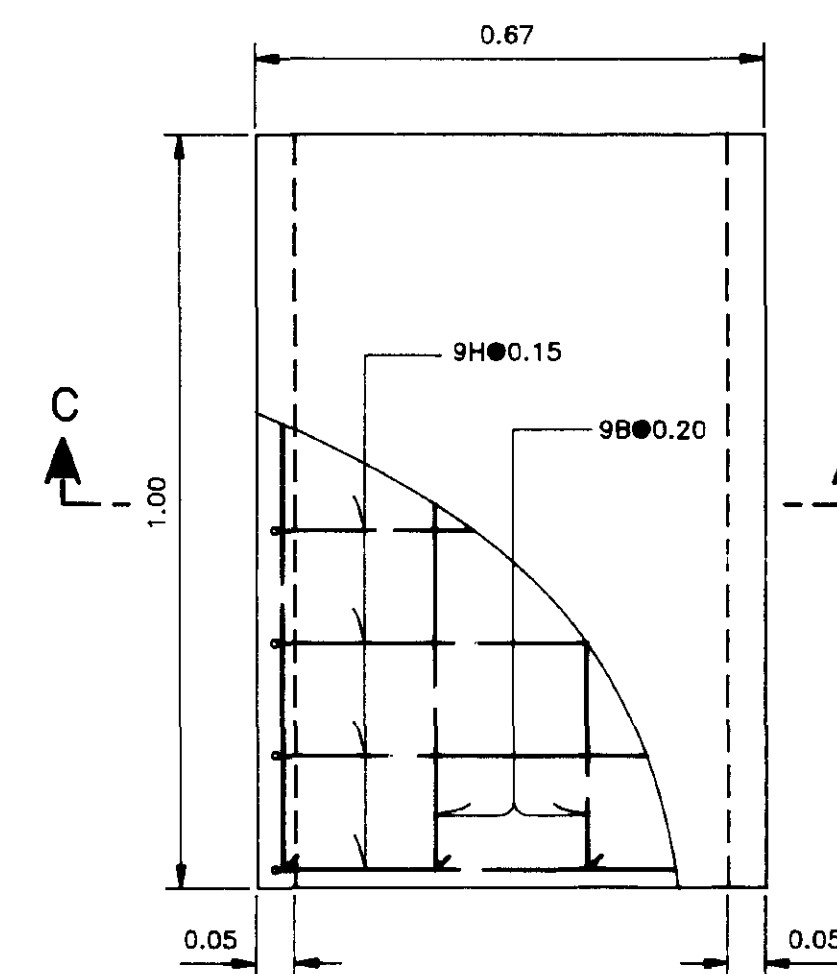
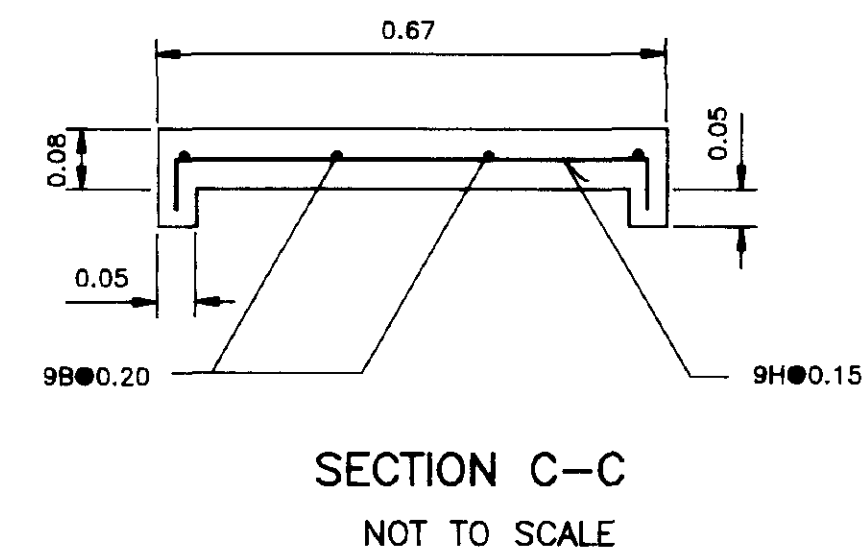
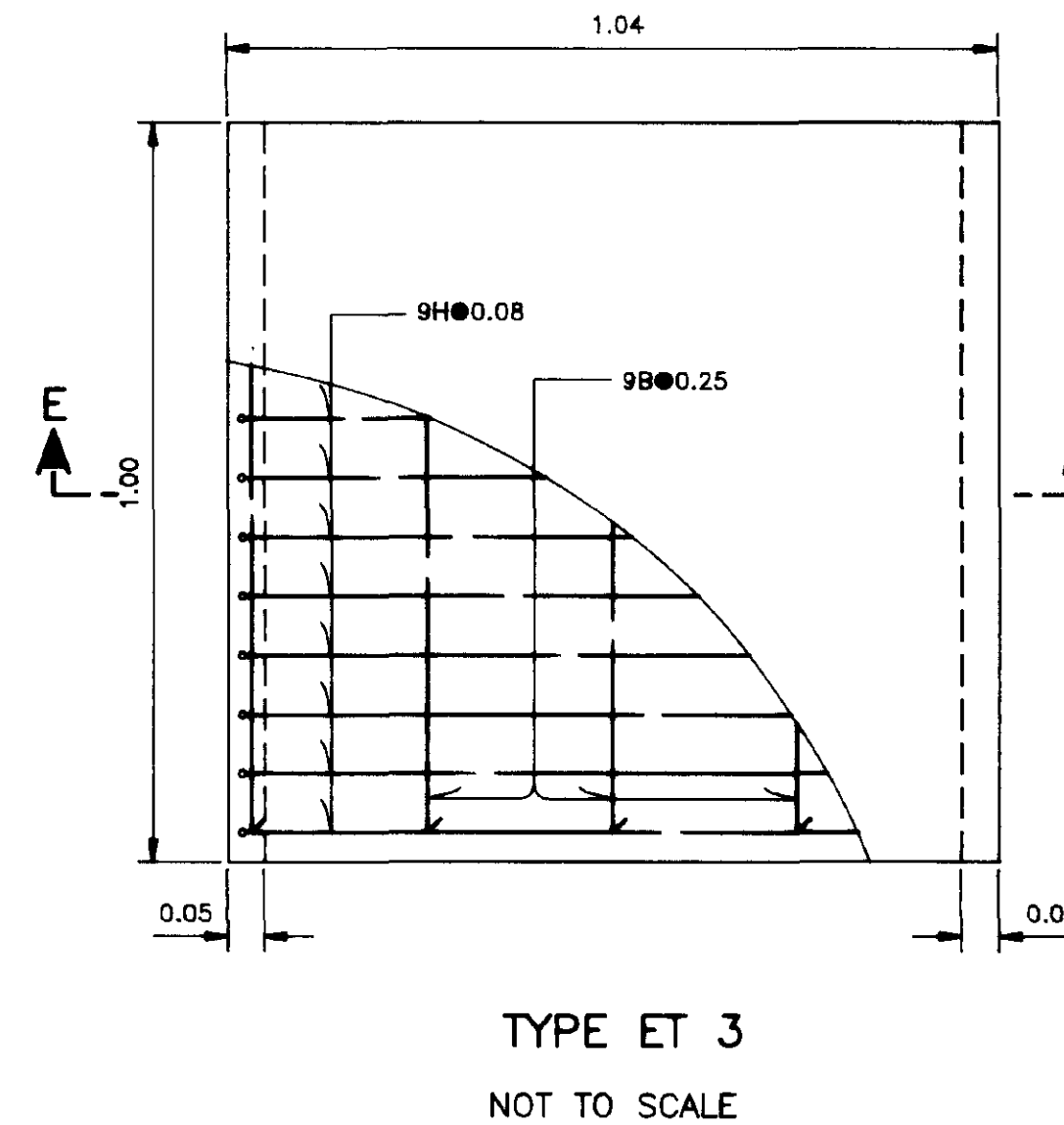
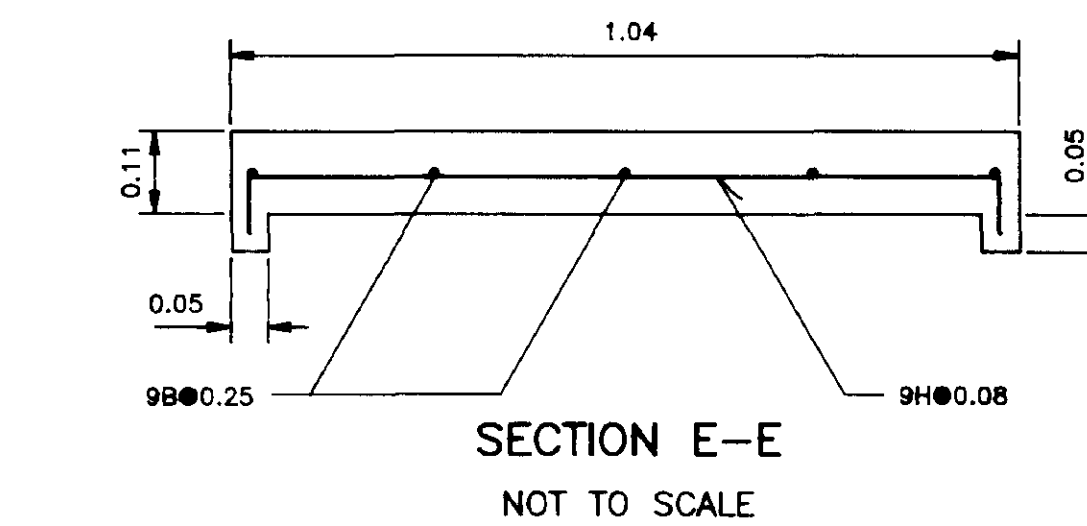
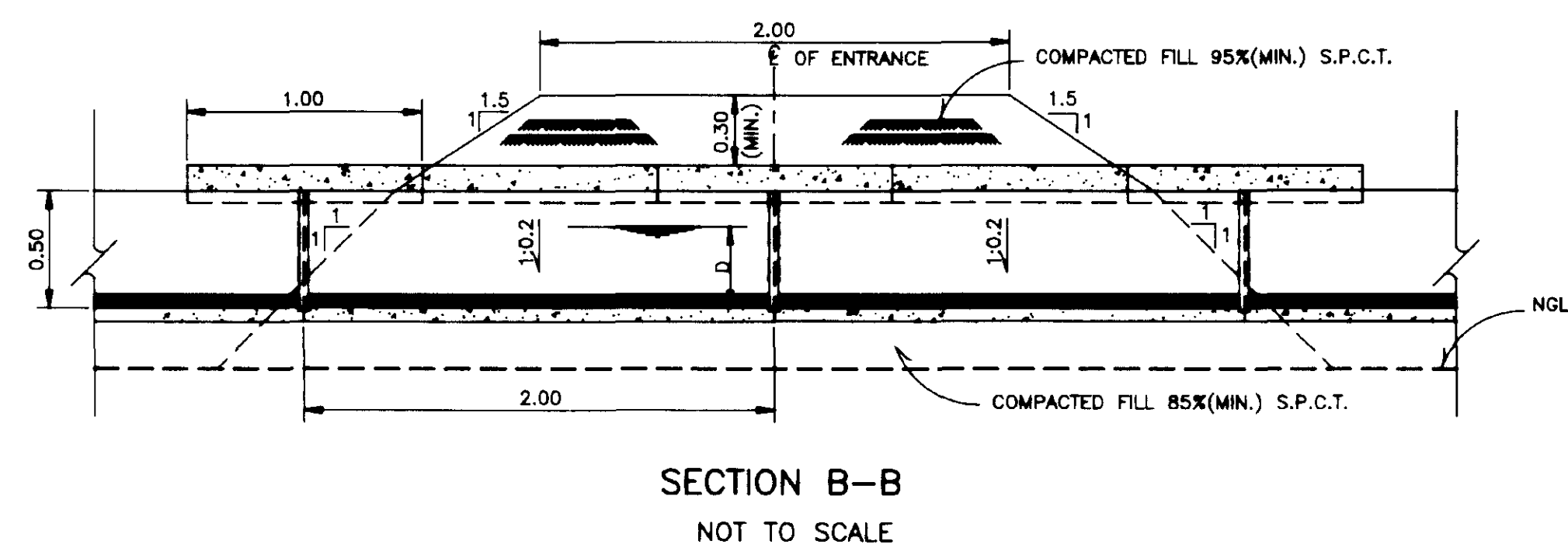
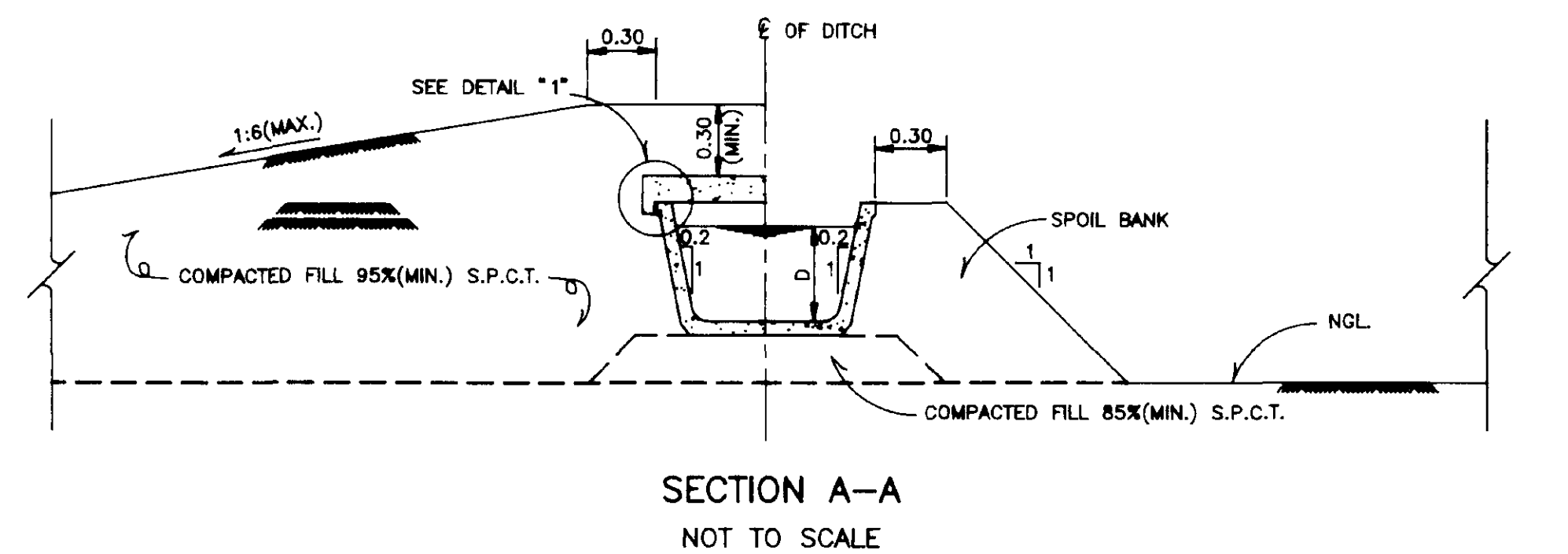
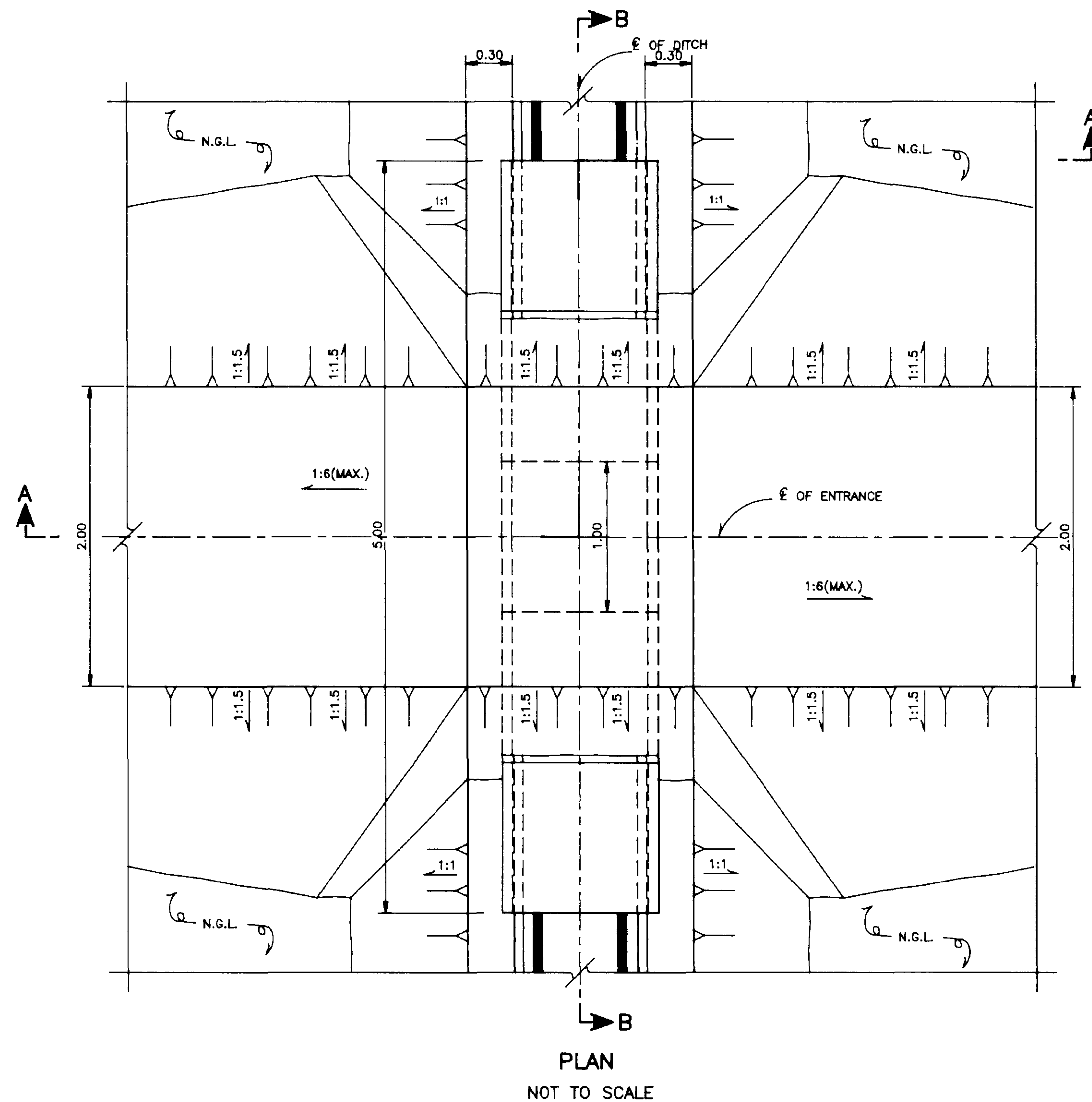
NOTES

1. GENERAL NOTES FOR U-SHAPE.....DWG. NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE.....DWG. NO. 145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
5. FOR LENGTH "L" AND "DIA" SHOWN IN LONGITUDINAL PROFILE.

REFERENCE DRAWINGS

1. REINF. PRECAST CONCRETE PIPE.....DWG. NO. 14501 2-002
2. JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. 14501 2-004
3. JOINT AND CONNECTION DETAIL.....DWG. NO. 145103

ROYAL IRRIGATION DEPARTMENT			
ON-FARM IRRIGATION SYSTEM			
TYPICAL ROADWAY CULVERT STRUCTURE			
FOR U-SHAPE			
PLAN, SECTIONS AND DETAILS			
DESIGNED	APRIL 2004	SUMMITTED	APRIL 2004
DRAWN	APRIL 2004	REVIEWED	APRIL 2004
TRACED	APRIL 2004	RECOMMENDED	APRIL 2004
CHECKED	APRIL 2004	APPROVED	APRIL 2004
REV. NO.	POSITION	DESCRIPTION	DATE
1	DESIGN DIVISION	ON-FARM DESIGN BRANCH	145113



NOTES

1. GENERAL NOTES FOR U-SHAPE ----- DWG.NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE ----- DWG.NO. 145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

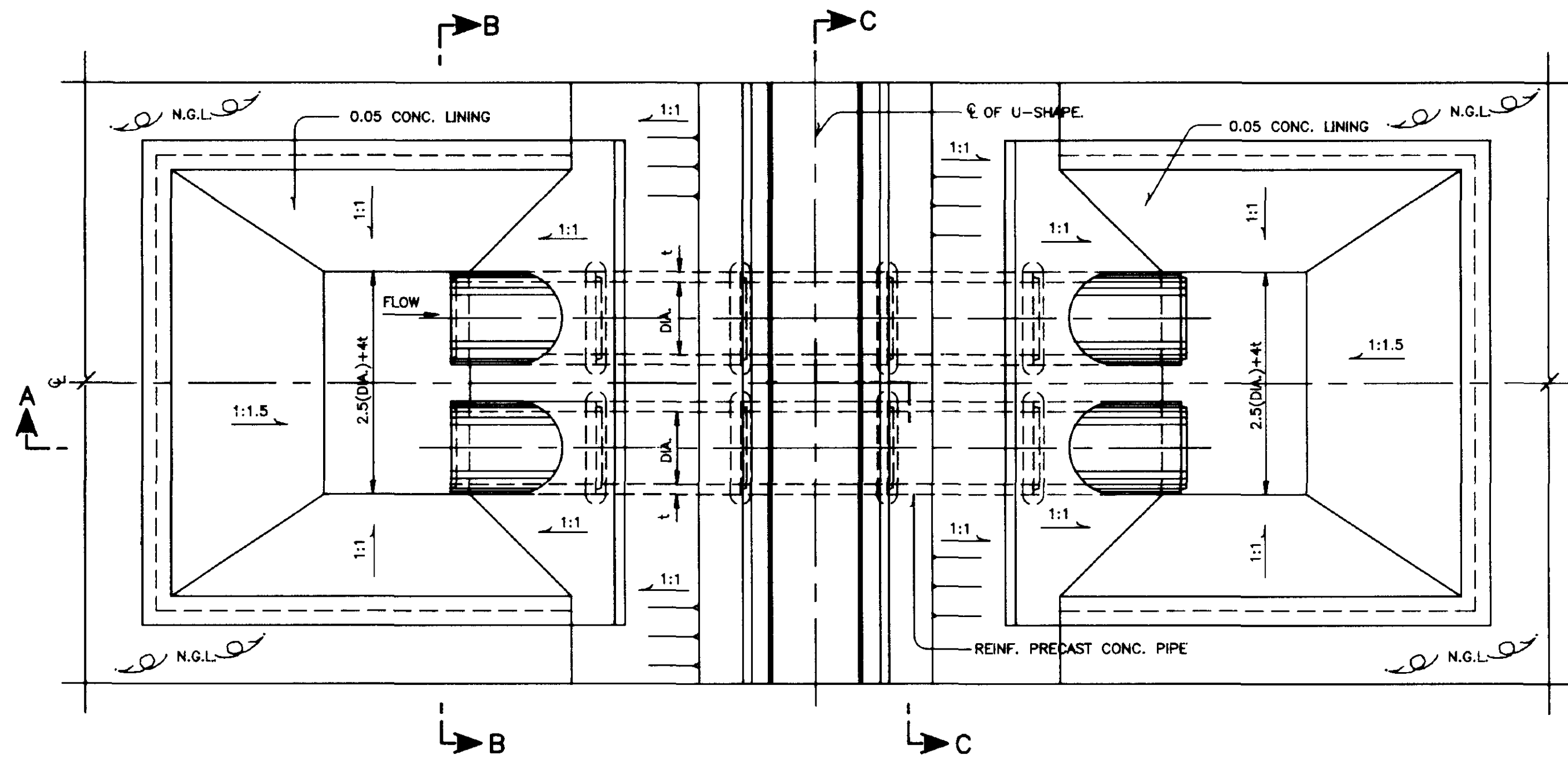
REFERENCE DRAWINGS

1. JOINT AND CONNECTION DETAIL ----- DWG.NO. 145103

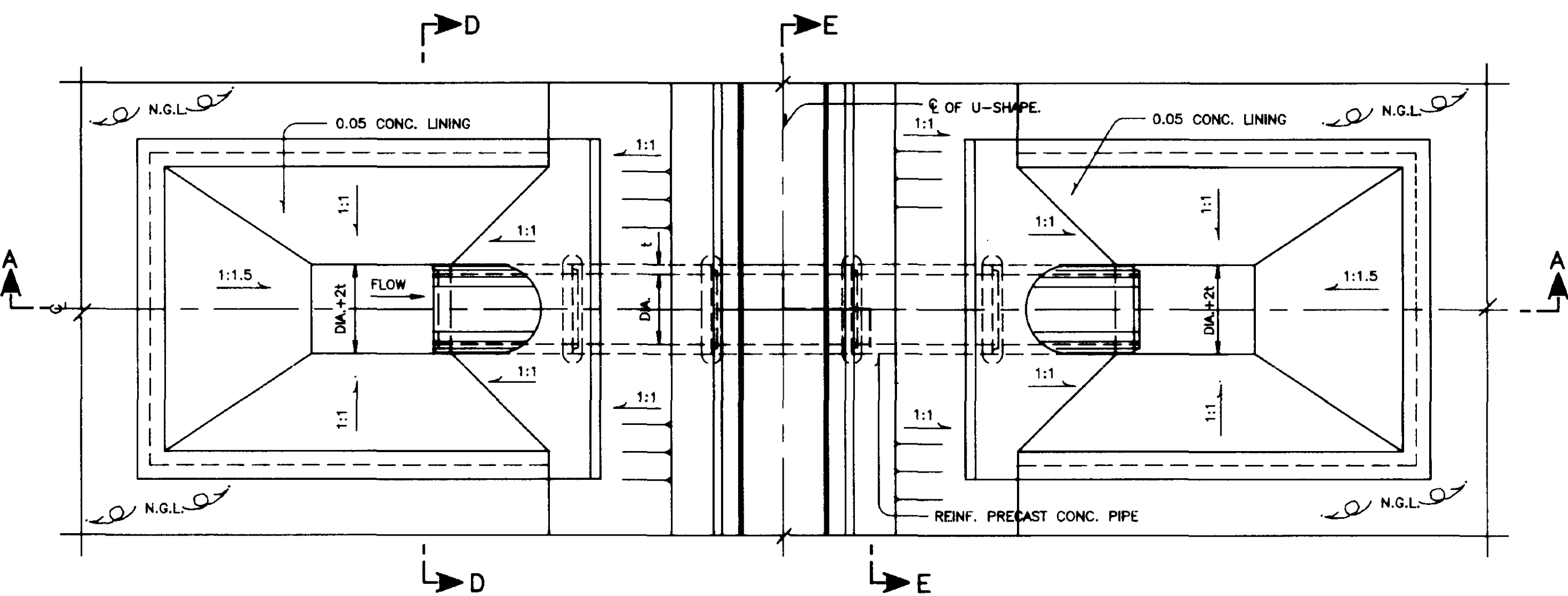
ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL ENTRANCE STRUCTURE
FOR U-SHAPE

PLAN,SECTION AND DETAILS

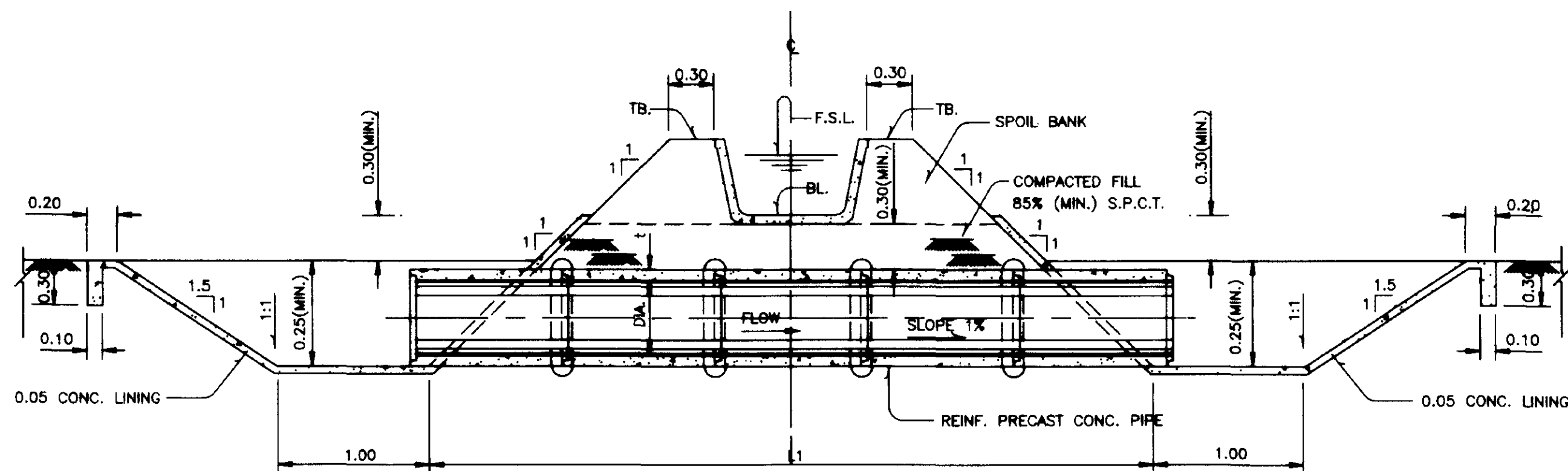
DESIGNED	Vishwan Angarun	SUBMITTED	N. Abeyaratne	CS.
DRAWN	Vishwan Angarun	REVIEWED	B. P. N. S.	DDD.
TRACED	Rajasekaran Jayaraman	RECOMMENDED	Chandana Vardana	DD.
CHECKED	N. Abeyaratne	APPROVED	Chandana Vardana	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM. APPROVED
				DESIGN DIVISION ON-FARM DESIGN BRANCH
				DATE
				145115



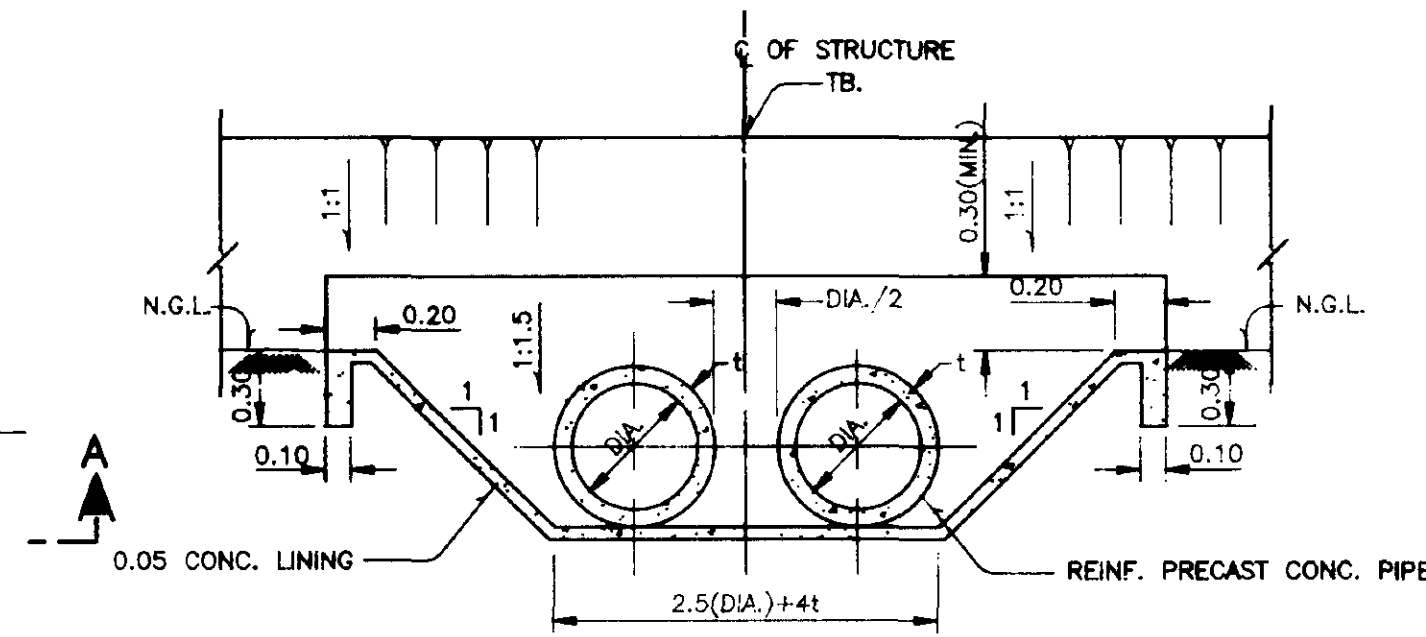
PLAN
NOT TO SCALE



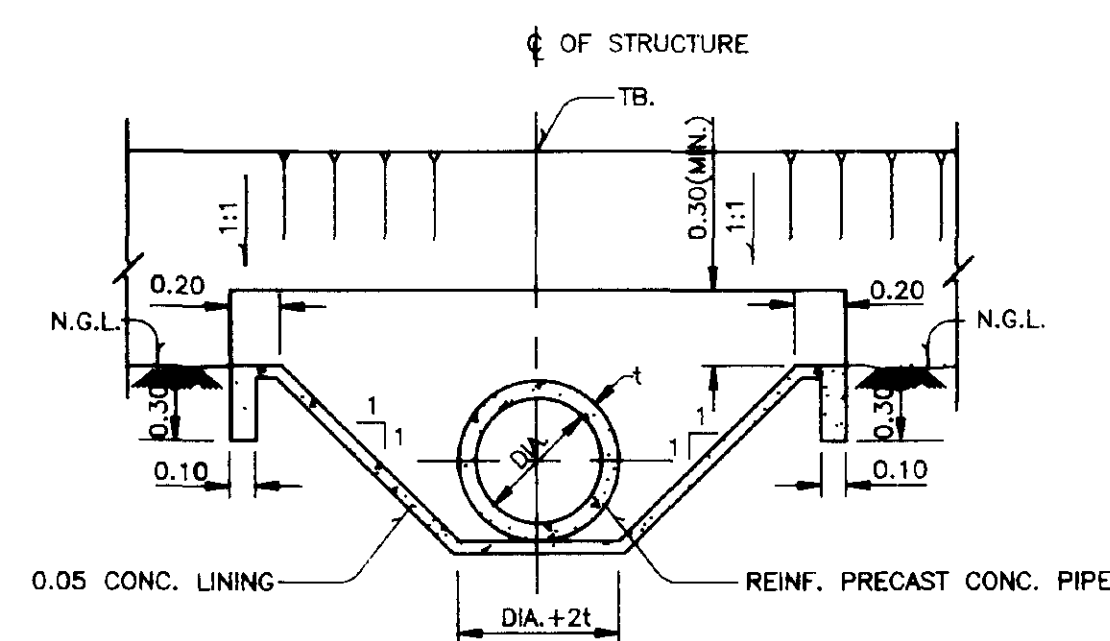
PLAN
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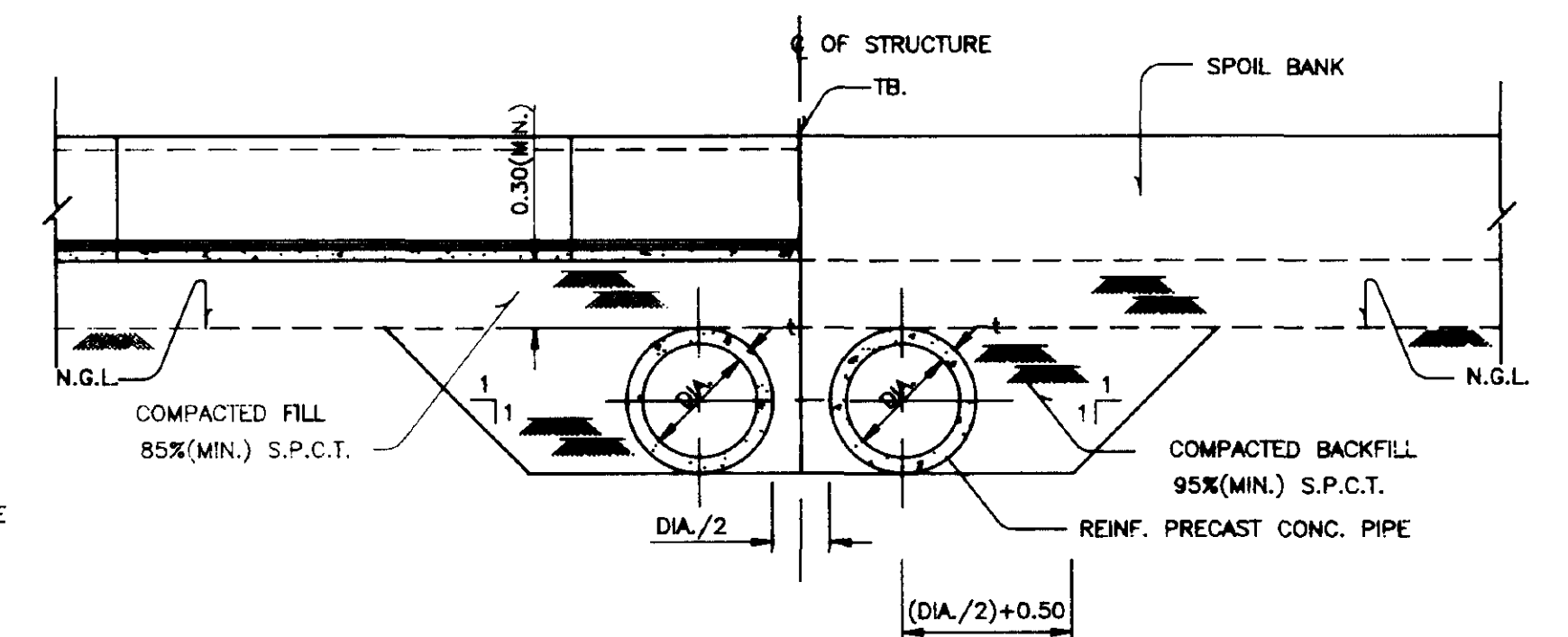
SECTION A - A
NOT TO SCALE



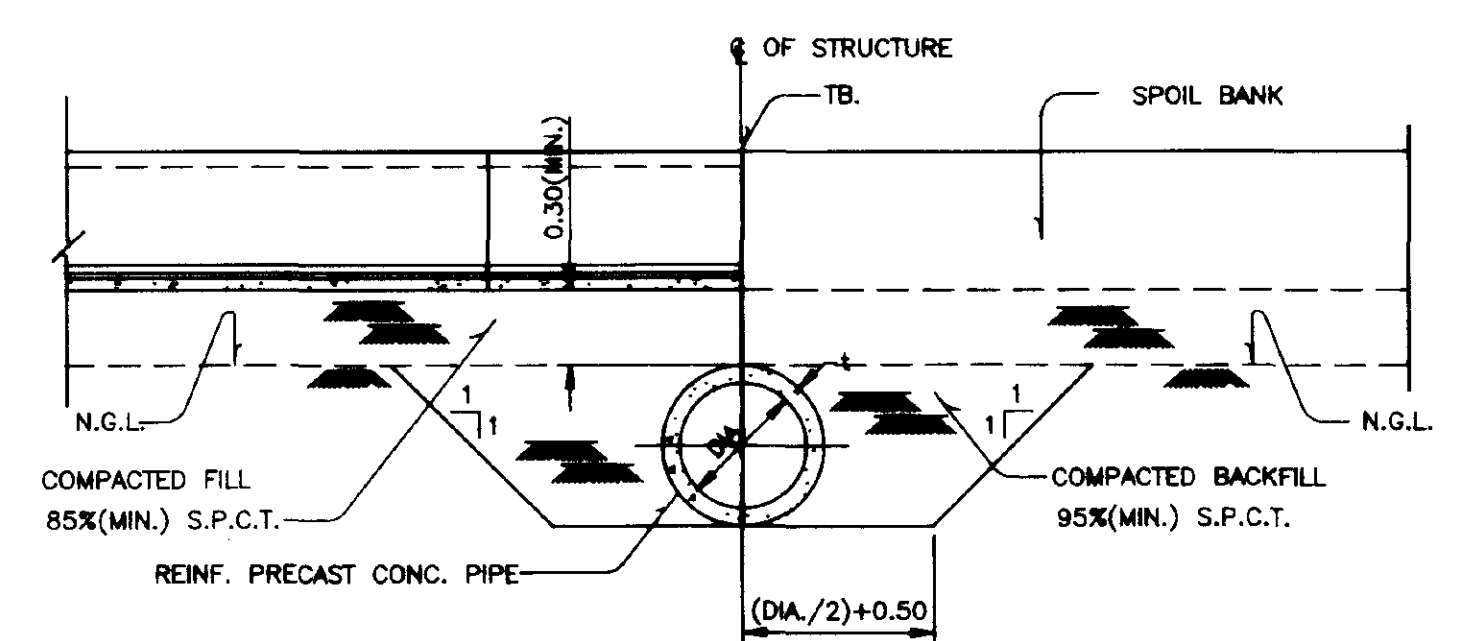
SECTION B - B
NOT TO SCALE



SECTION D - D
NOT TO SCALE



SECTION C - C
NOT TO SCALE



SECTION E - E
NOT TO SCALE

TABLE OF DIMENSION

DRAIN DISCHARGE (l/sec.)	PIPE DIA. (m)	ROW
140	0.50	1
200	0.60	1
375	0.80	1
600	1.00	1
280	0.50	2
400	0.60	2
750	0.80	2
1200	1.00	2

NOTES

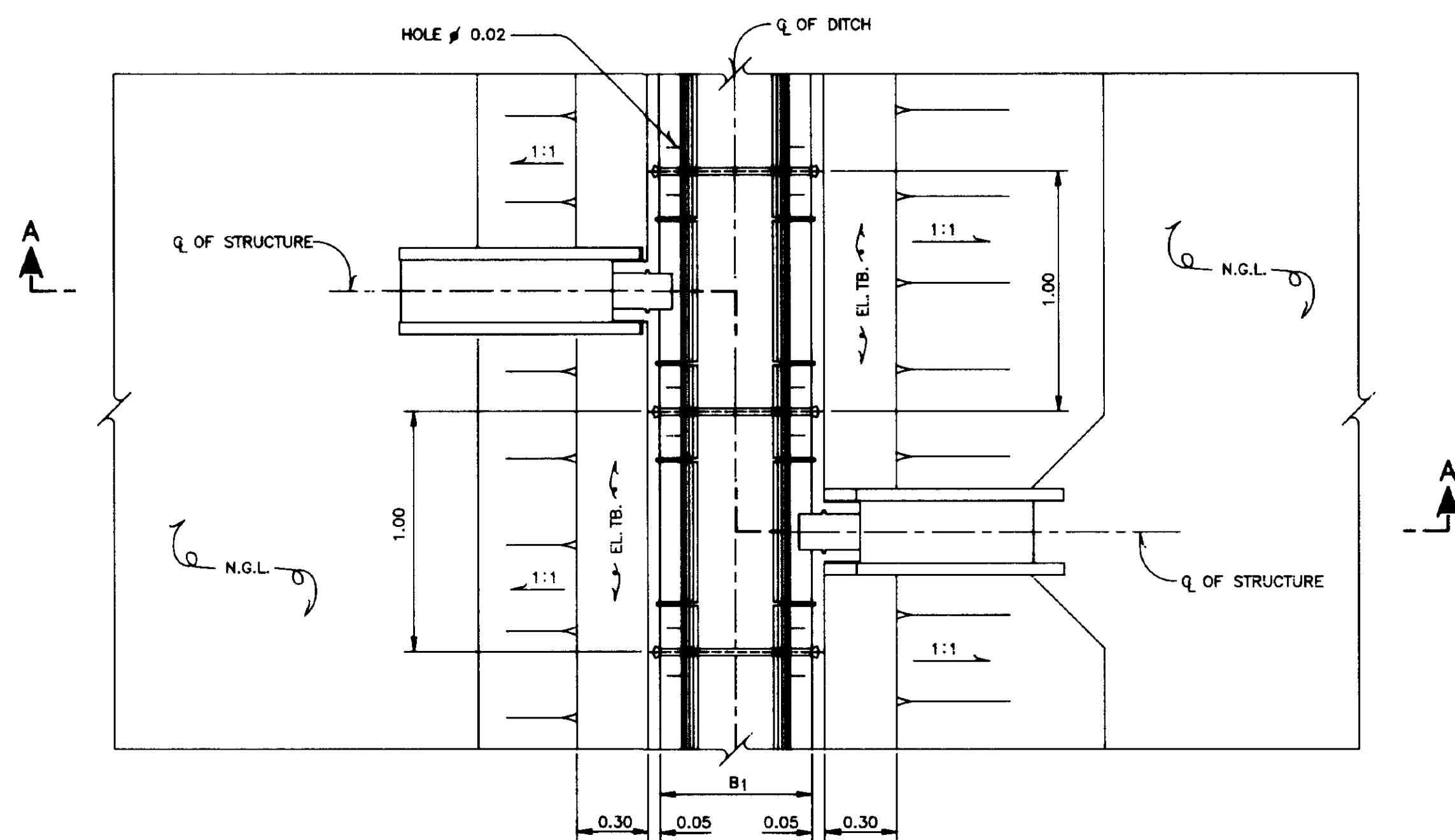
- GENERAL NOTES FOR U-SHAPE..... DWG.NO. 145101
- LEGEND AND ABBREVIATION FOR U-SHAPE..... DWG.NO. 145100
- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SHOWN
- DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD

REFERENCE DRAWING

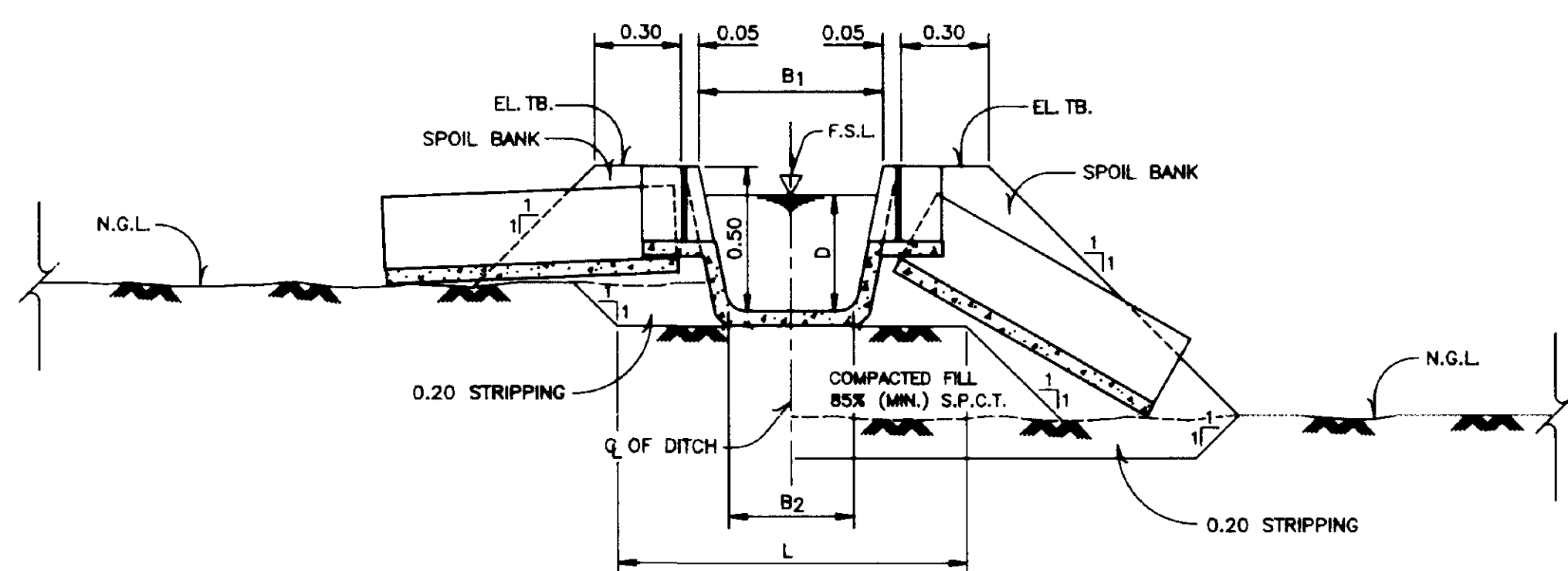
- TYPICAL REINF. PRECAST CONCRETE PIPE DWG.NO. 145101-2-002
- TYPICAL JOINT AND PLACEMENT OF PRECAST CONCRETE PIPEDWG.NO.145101-2-004

ROYAL IRRIGATION DEPARTMENT			
ON-FARM IRRIGATION SYSTEM			
TYPICAL DRAIN CULVERT STRUCTURE			
FOR U-SHAPE			
PLAN AND SECTIONS			
DESIGNED	Soni	SUBMITTED	Sathish
DRAWN	Anam T	REVIEWED	E. P. P. P.
TRACED	Anam T	RECOMMENDED	Chaitanya
CHECKED	Sathish	APPROVED	Chaitanya
DESIGN DIVISION	ON-FARM DESIGN BRANCH	DATE	145116

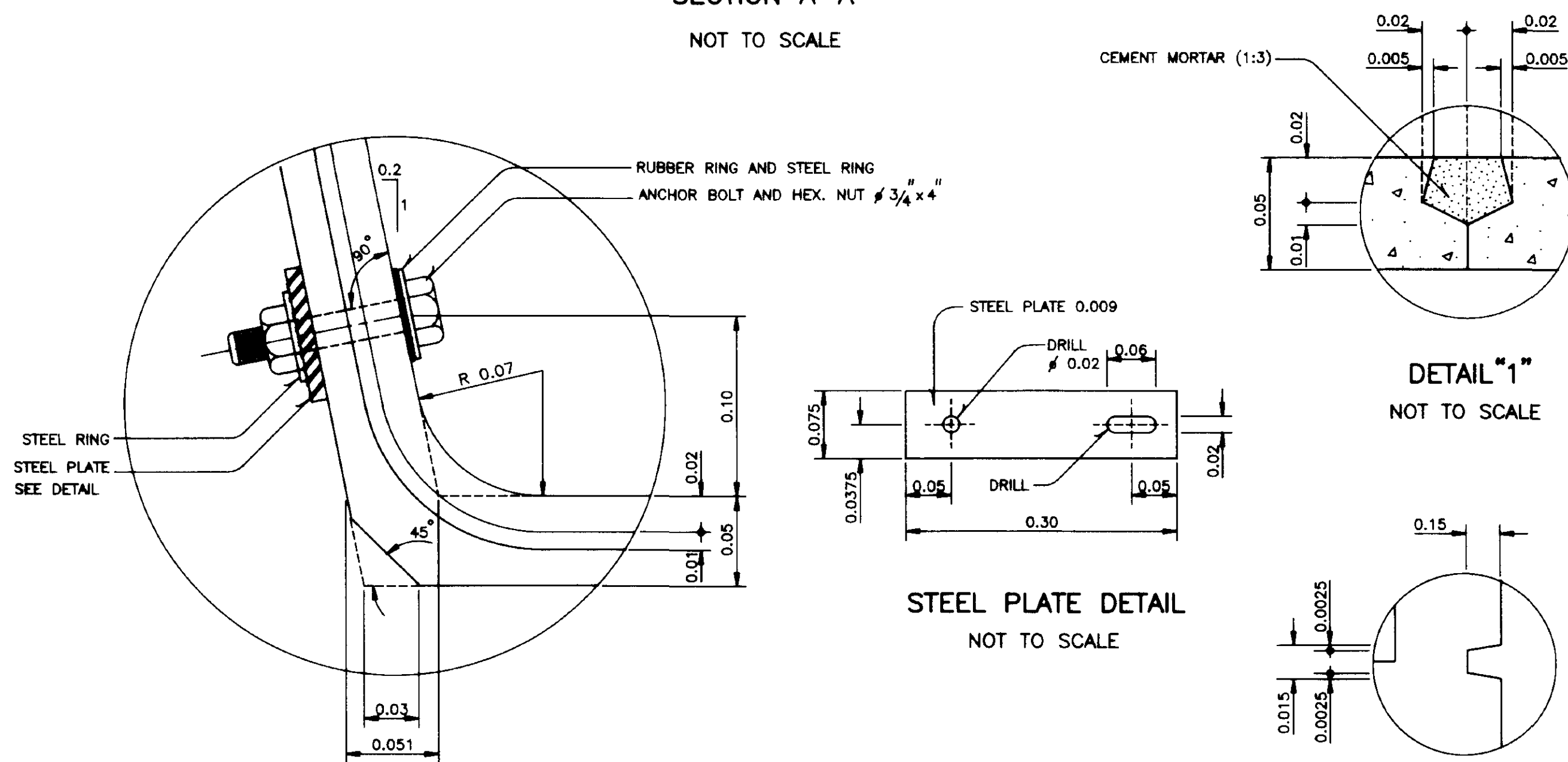
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOM.	APPROVED



PLAN
NOT TO SCALE

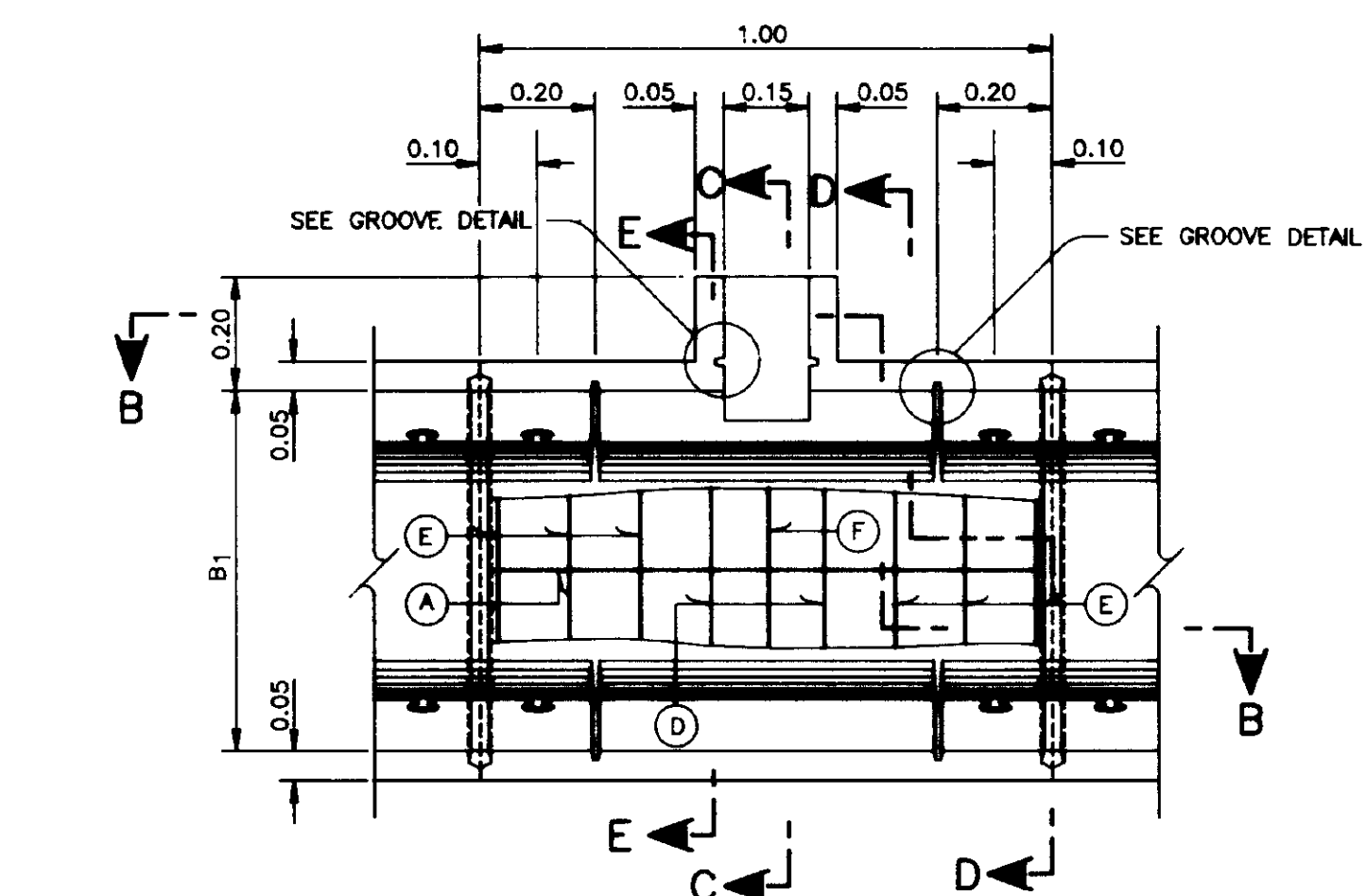


SECTION A-A
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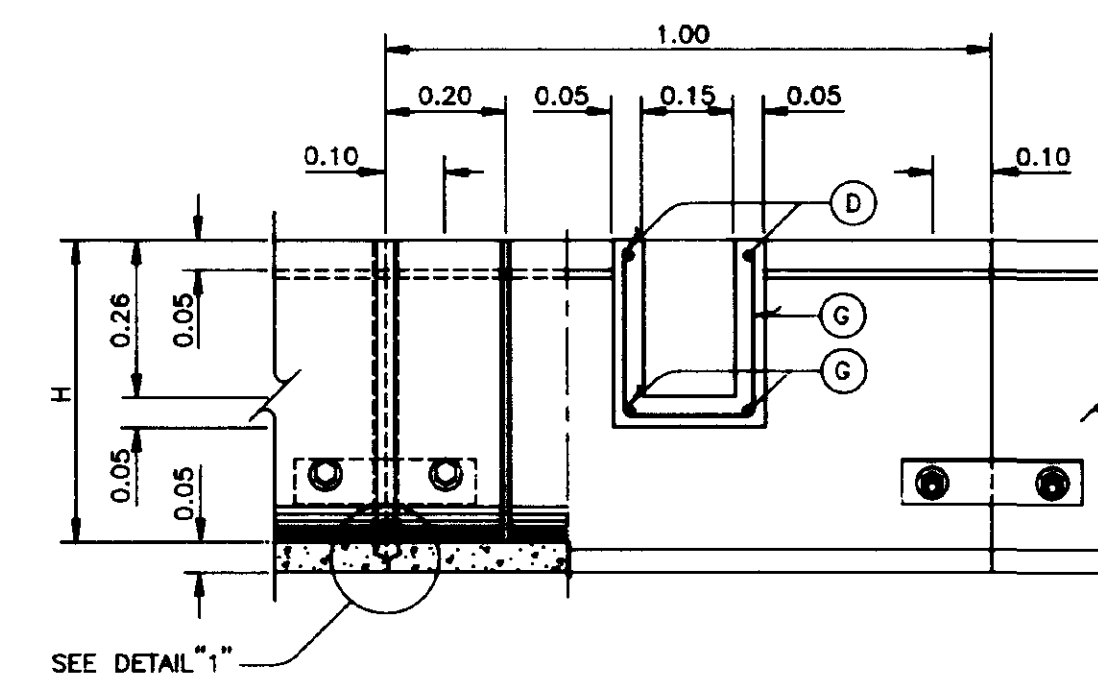


DETAIL "2"

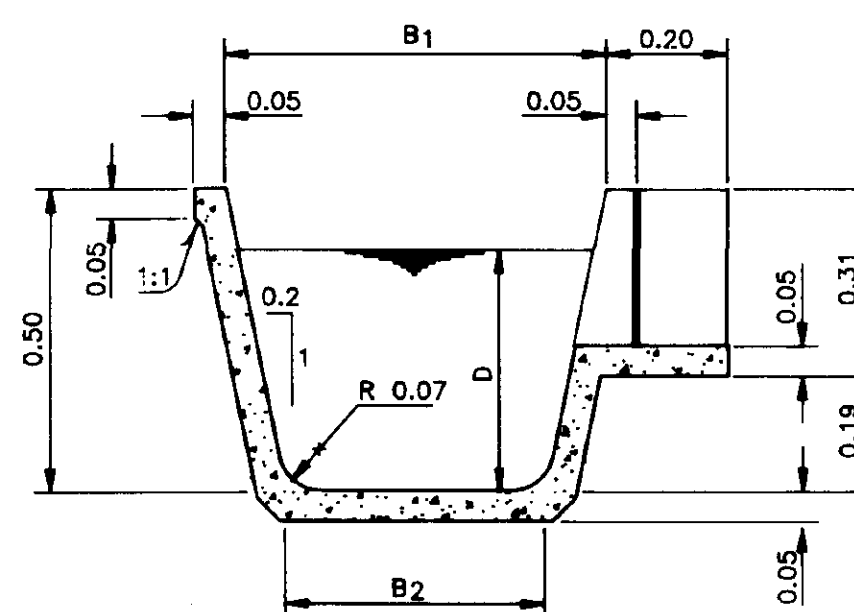
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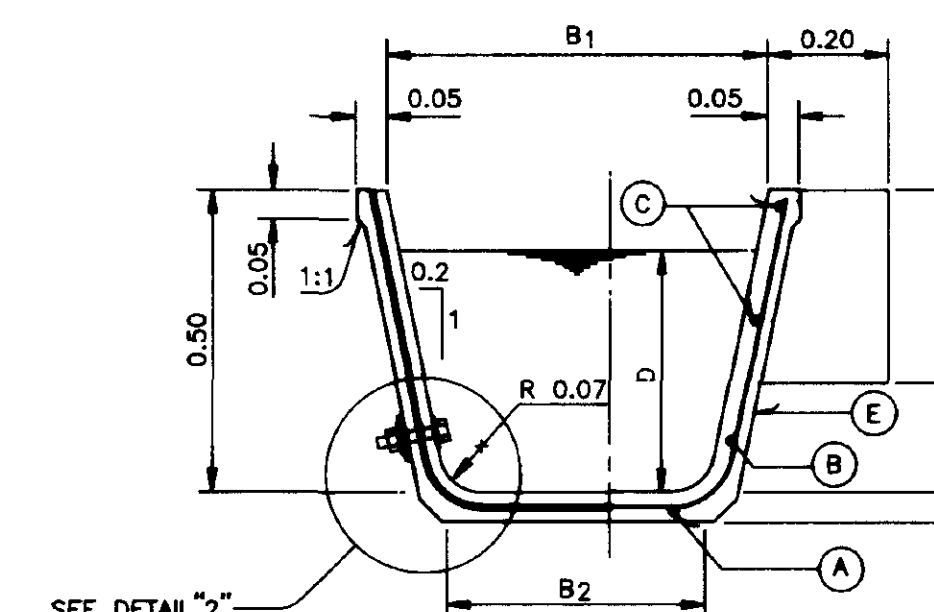
PLAN
NOT TO SCALE



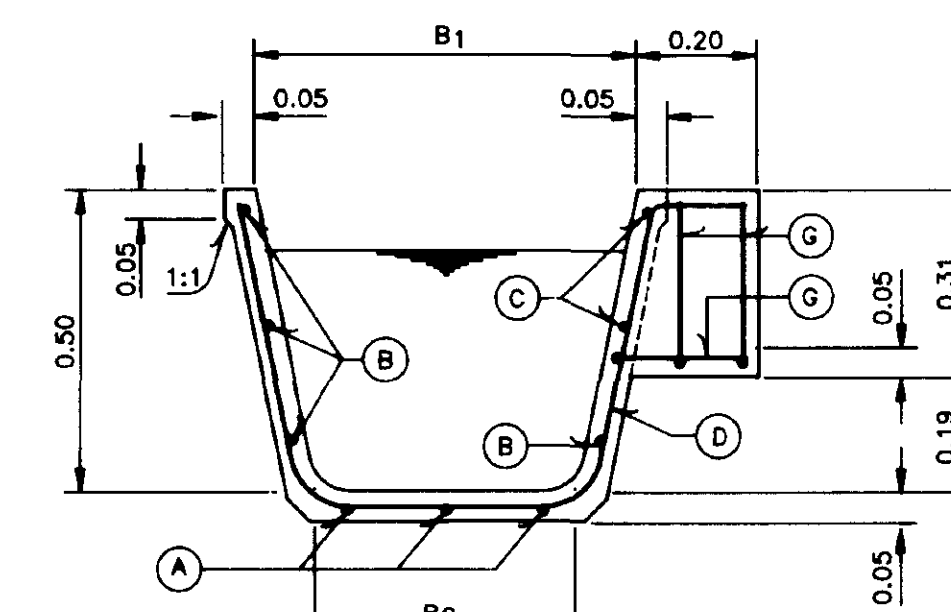
SECTION B-B
NOT TO SCALE



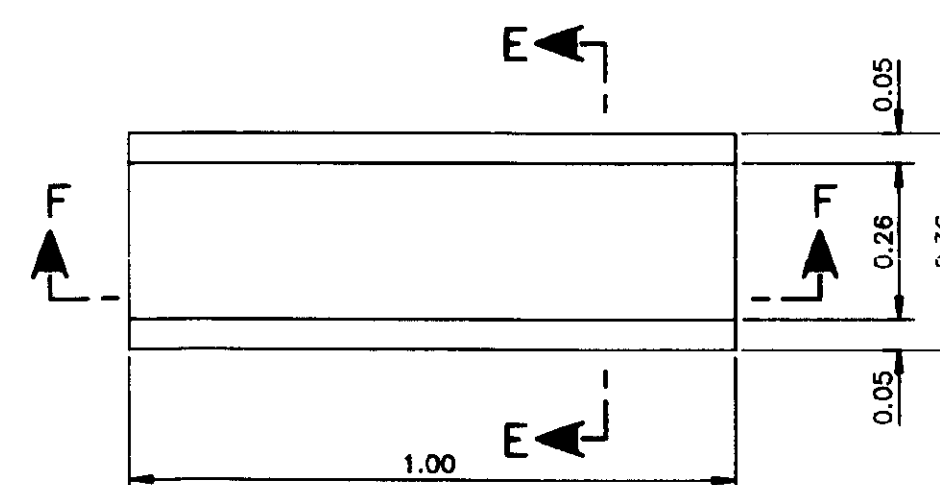
SECTION C-C
NOT TO SCALE



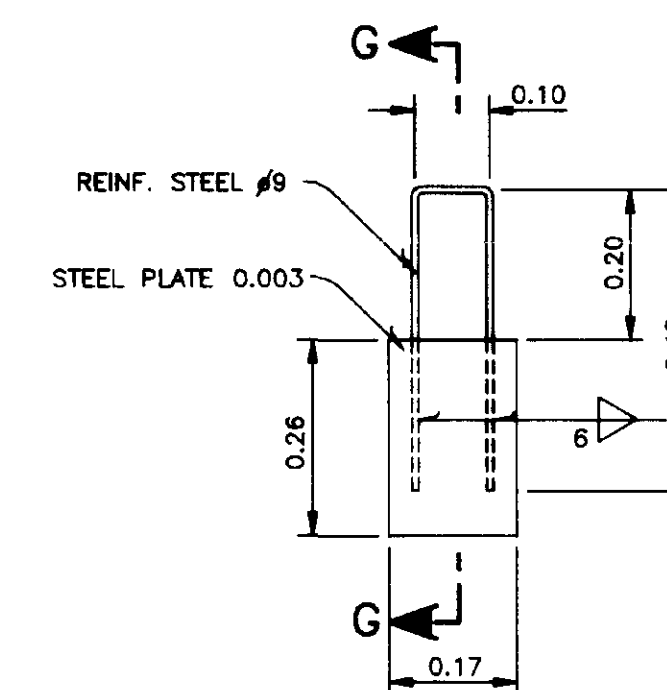
SECTION D-D
NOT TO SCALE



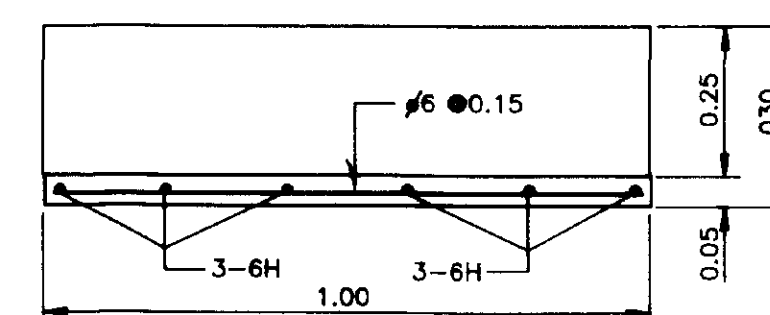
SECTION E-E
NOT TO SCALE



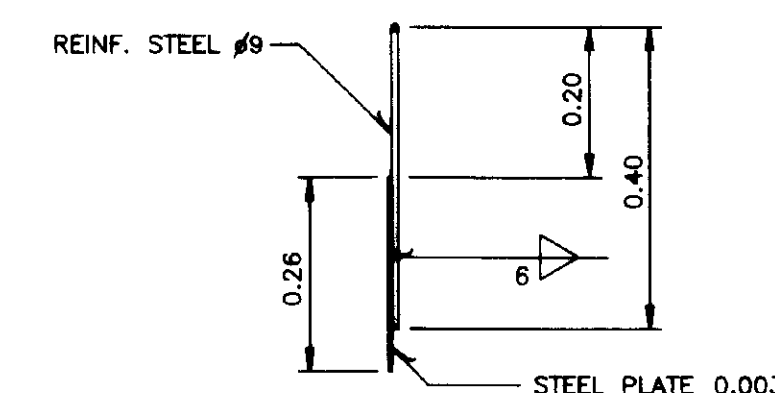
PLAN
NOT TO SCALE



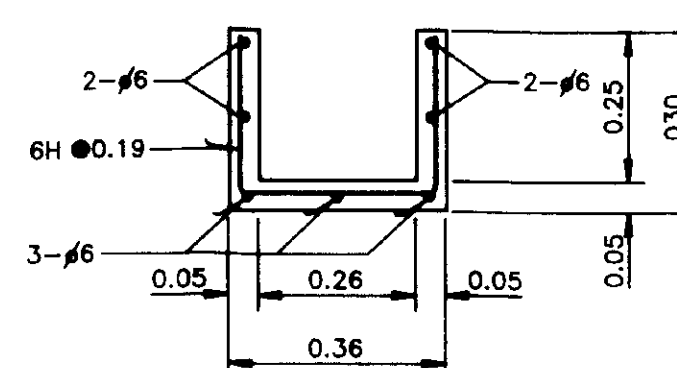
FARM INLET GATE
FRONT VIEW
NOT TO SCALE



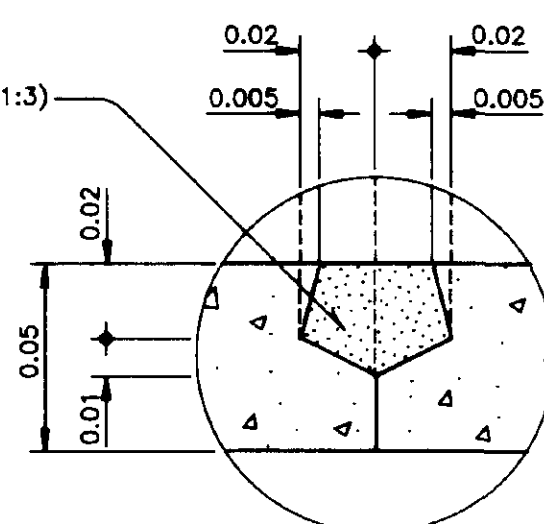
SECTION F-F
NOT TO SCALE



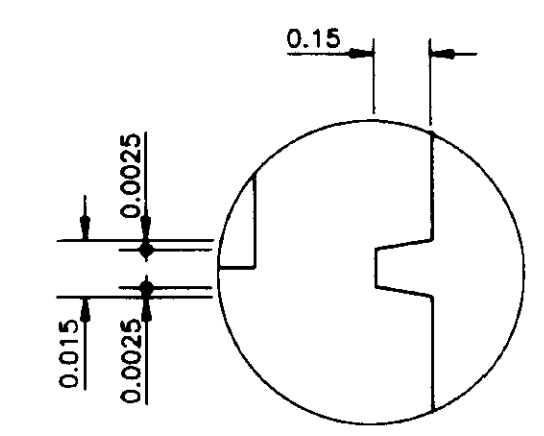
SECTION G-G
NOT TO SCALE



SECTION E-E
NOT TO SCALE



DETAIL "1"
NOT TO SCALE



GROOVE DETAIL
NOT TO SCALE

TYPE	B ₁	B ₂	L	STEEL REINFORCEMENTS						
				(A)	(B)	(C)	(D)	(E)	(F)	(G)
										
F11	0.39	0.23	1.00	2- ϕ 6	(1+3)- ϕ 6	(2+2)- ϕ 6	2- ϕ 6	(3+3)- ϕ 6	1- ϕ 6	(1+2)- ϕ 6
F12	0.63	0.43	1.20	3- ϕ 6	(1+3)- ϕ 6	(2+2)- ϕ 6	2- ϕ 6	(3+3)- ϕ 6	1- ϕ 6	(1+2)- ϕ 6
F13	0.80	0.60	1.50	4- ϕ 6	(1+3)- ϕ 6	(2+2)- ϕ 6	2- ϕ 6	(3+3)- ϕ 6	1- ϕ 6	(1+2)- ϕ 6

NOTES

1. GENERAL NOTES FOR U-SHAPE.....DWG.NO.145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE.....DWG.NO.145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
5. ALL STEEL SURFACES SHALL BE PAINTED, RUST-RESISTANCE PAINT SHALL BE APPLIED IN ONE COAT AND FINISH OIL COLOUR SHALL BE APPLIED IN TWO COATS.

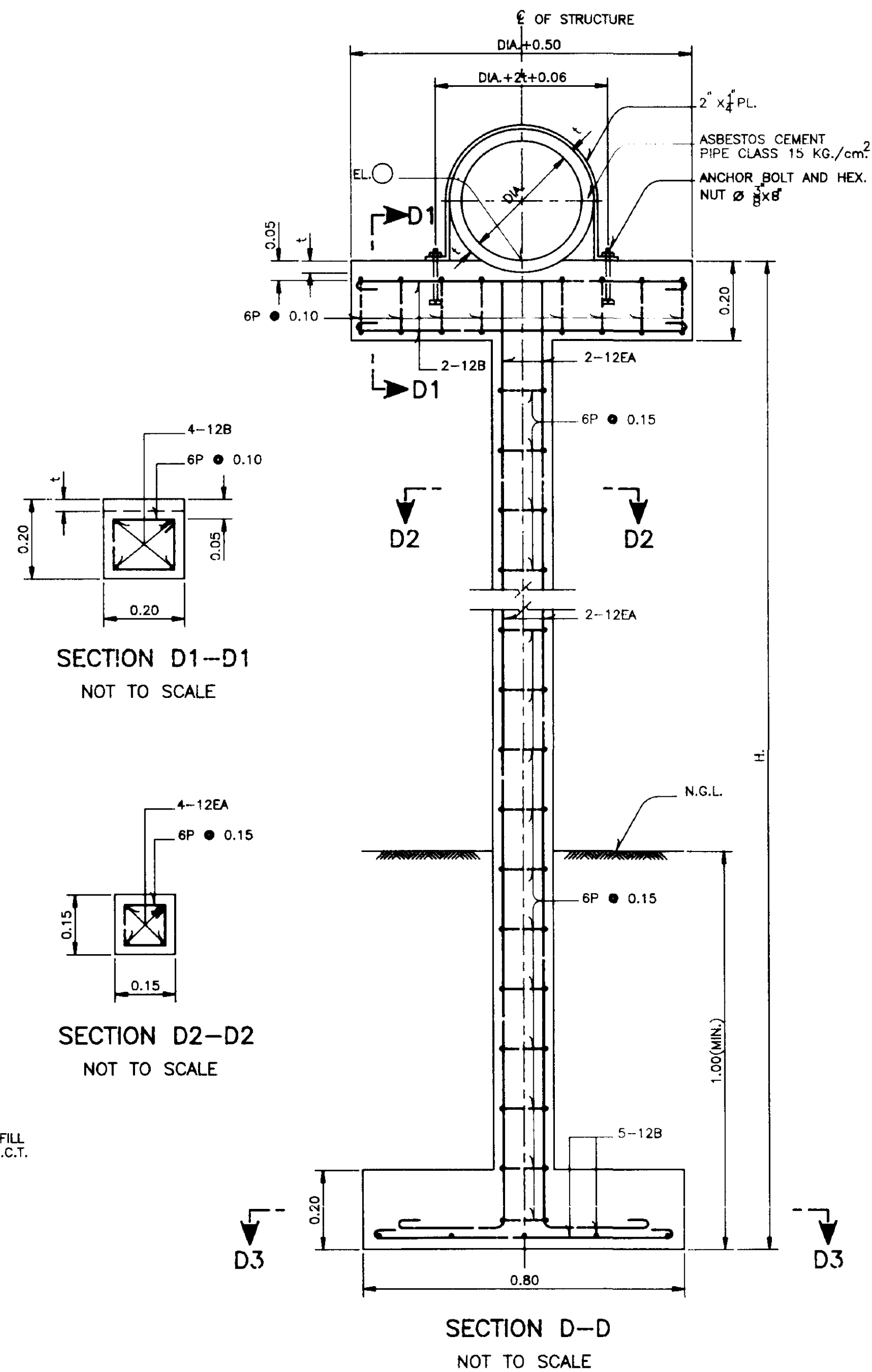
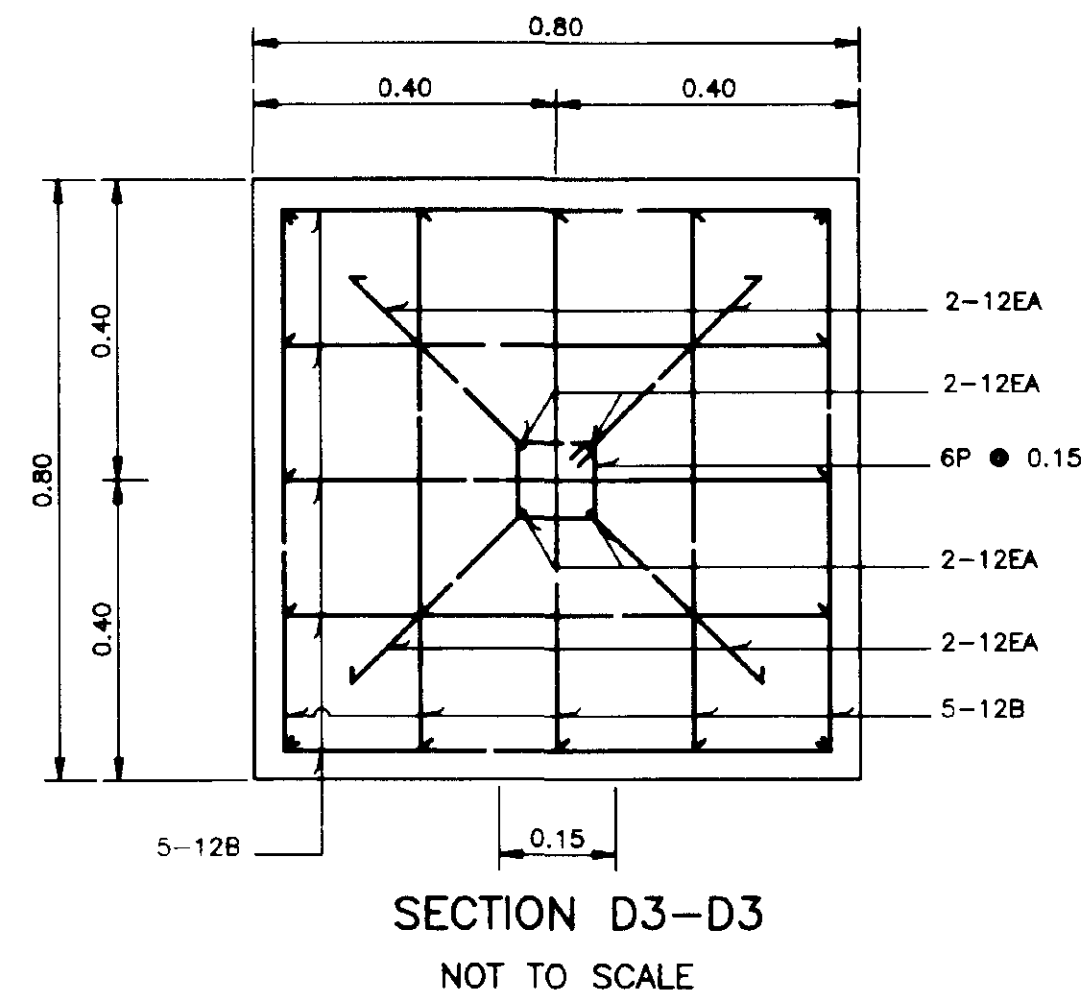
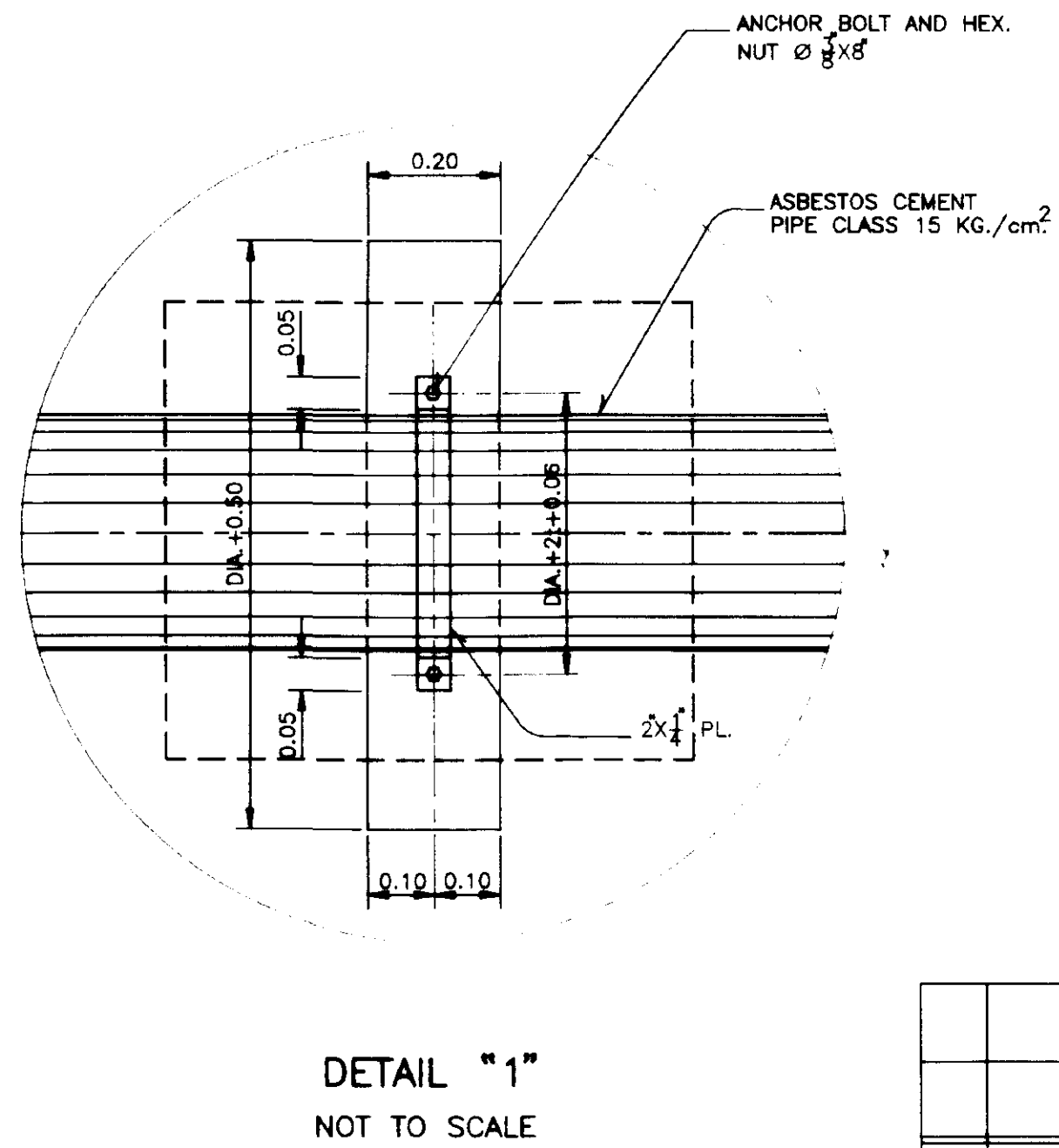
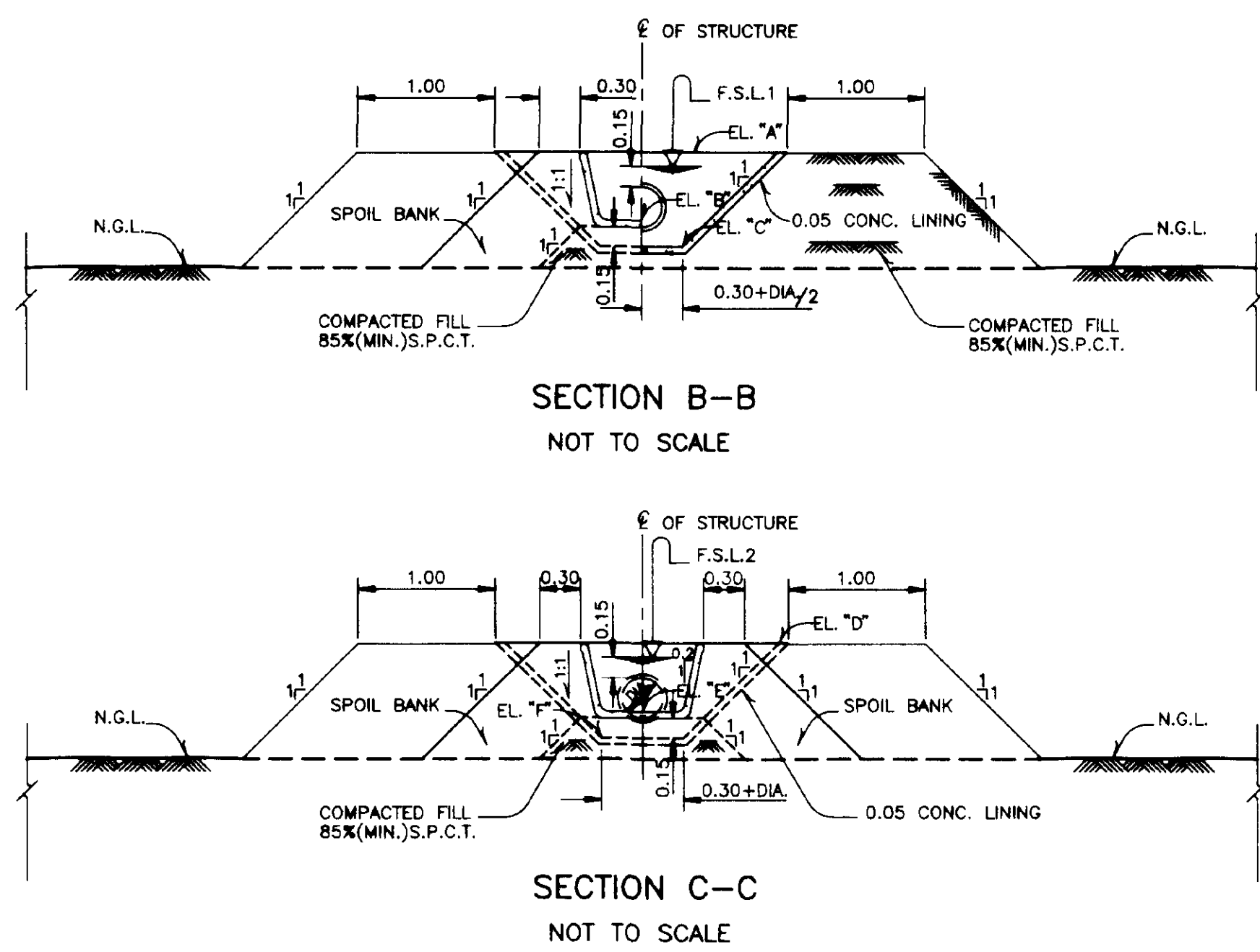
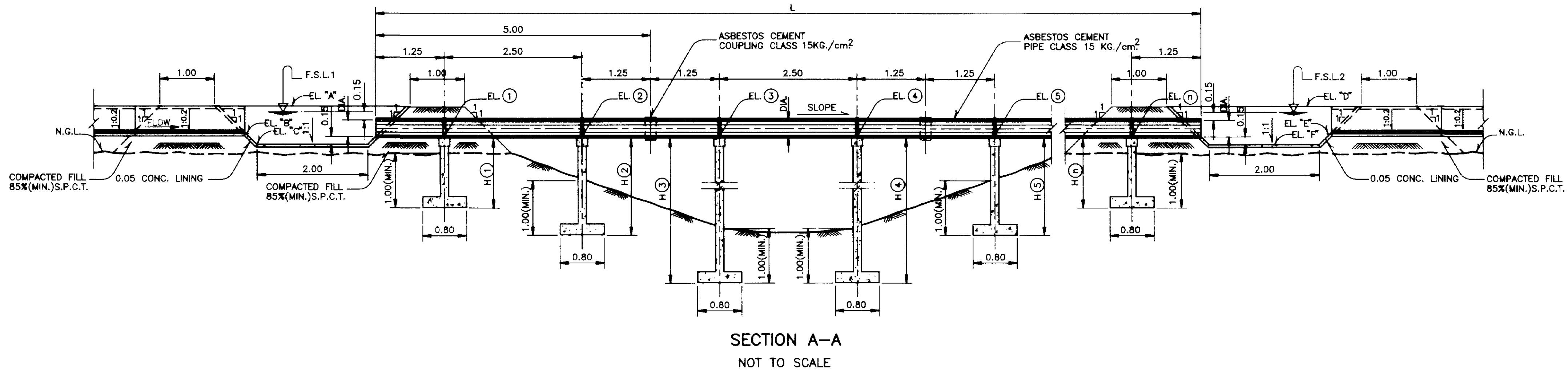
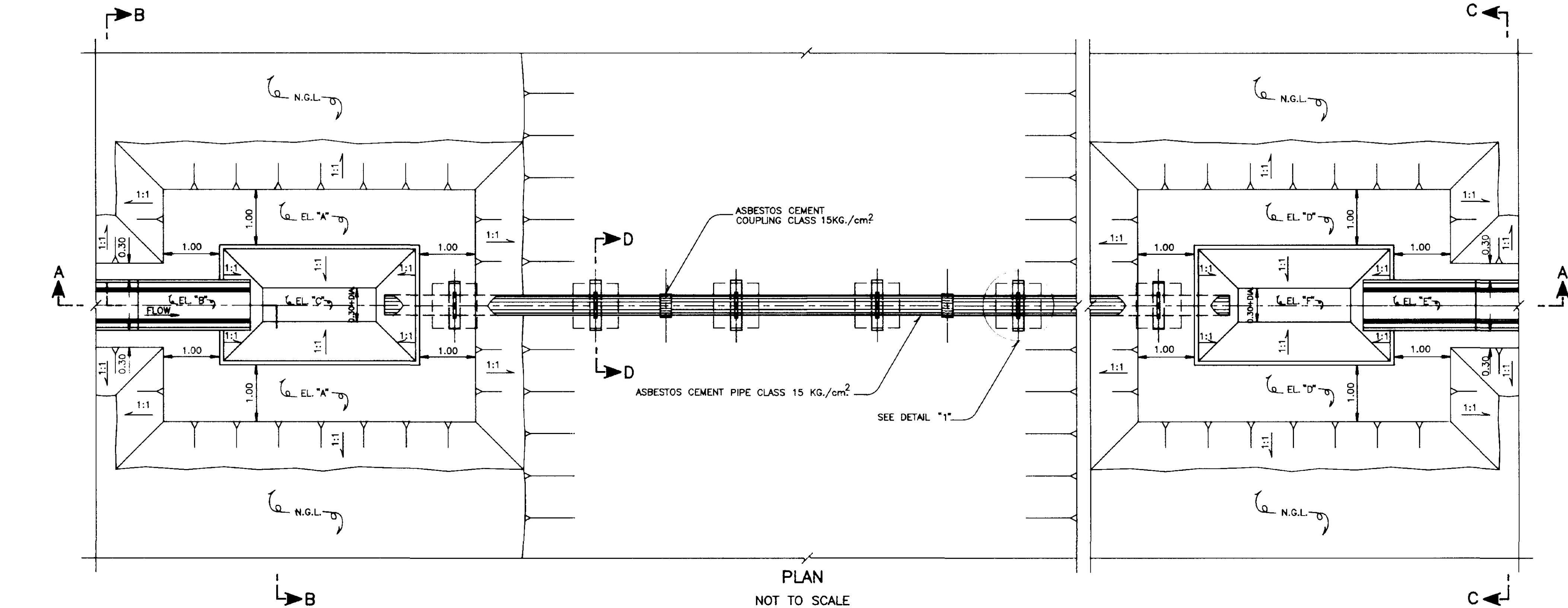
ROYAL IRRIGATION DEPARTMENT

ON-FARM IRRIGATION SYSTEM

TYPICAL FARM INLET STRUCTURE
FOR U-SHAPE

PLAN, SECTIONS AND DETAILS

							DESIGNED	T. Rangach, Marroch R	SUBMITTED	gustina chitramant.	CS
							DRAWN	Marroch R	REVIEWED	E. S. H. S. A.	DD
							TRACED	Marroch R	RECOMMENDED	Ch. U. Vardan	DD
							CHECKED	gustina chitramant.	APPROVED	Ch. U. Vardan	DG
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOM.	APPROVED	DESIGN DIVISION	IRRIGATION SYSTEM DESIGN BRANCH	DATE.	145117	



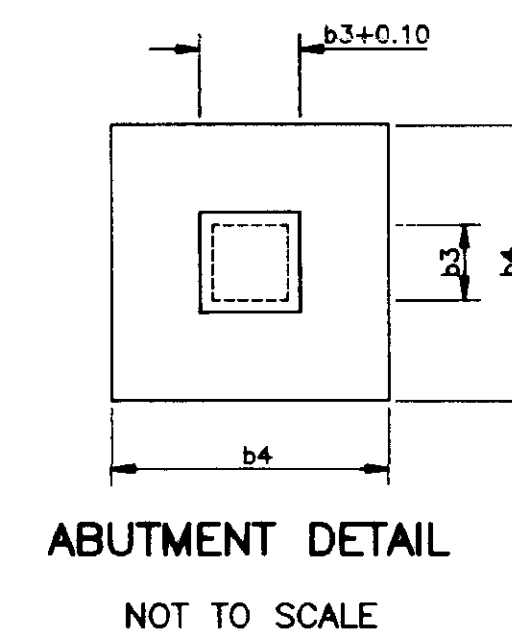
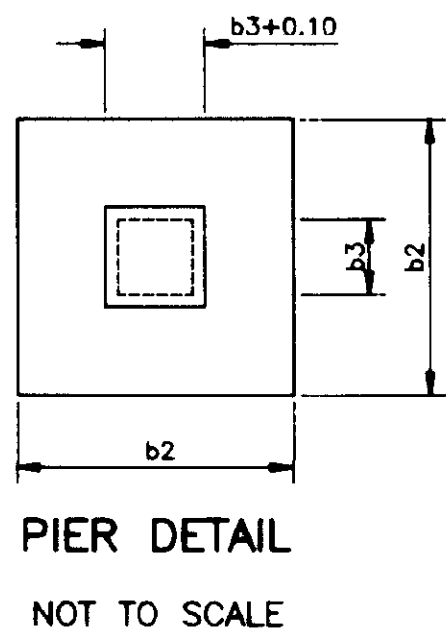
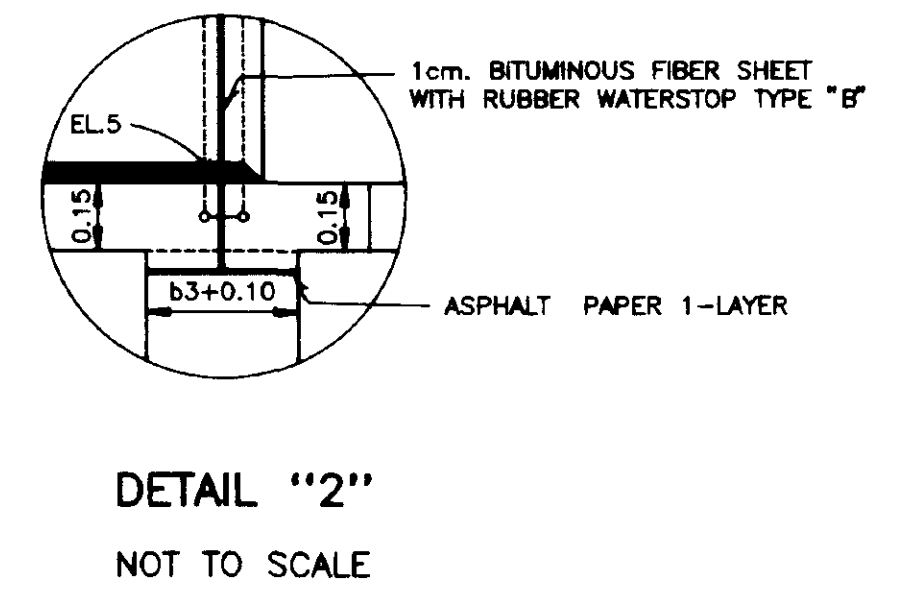
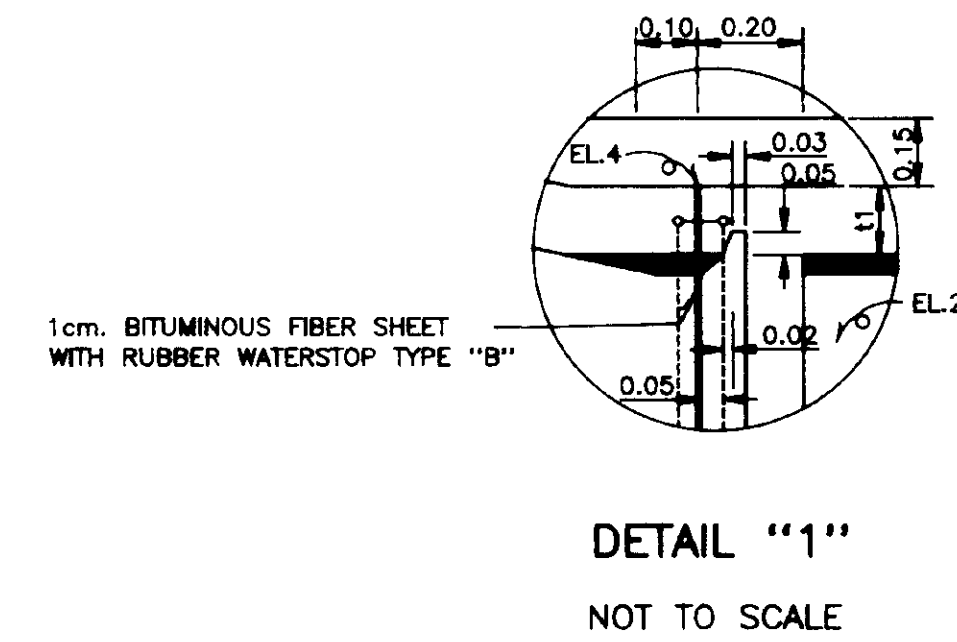
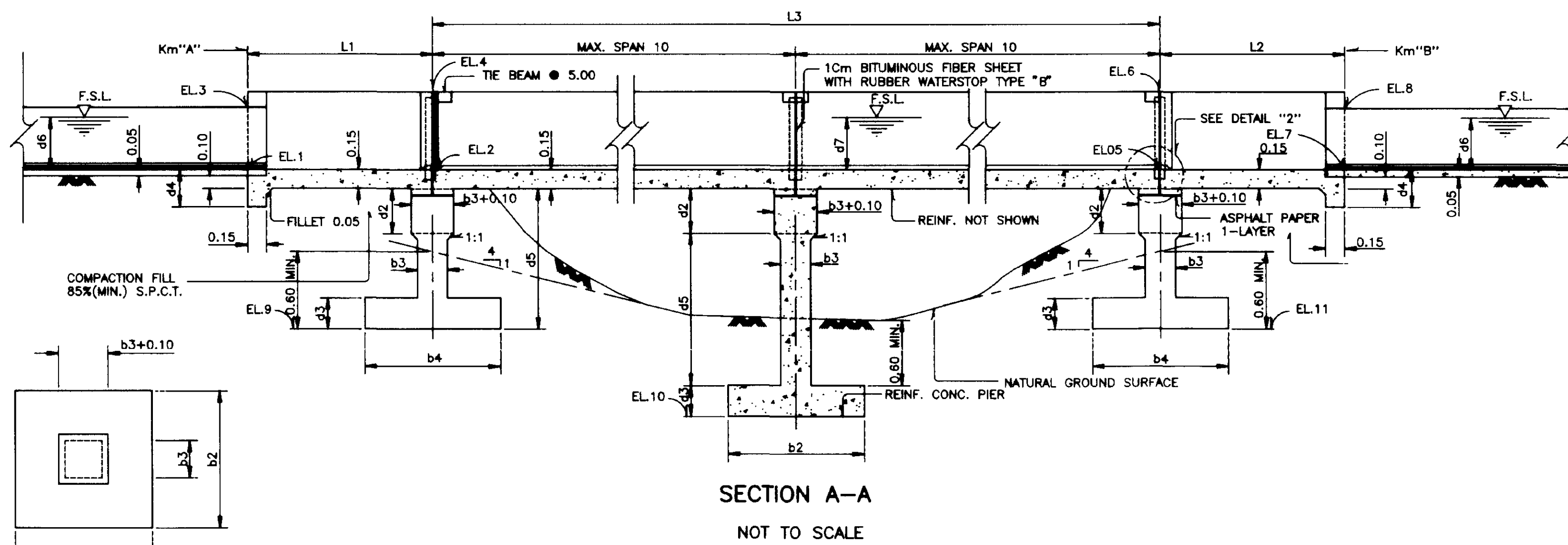
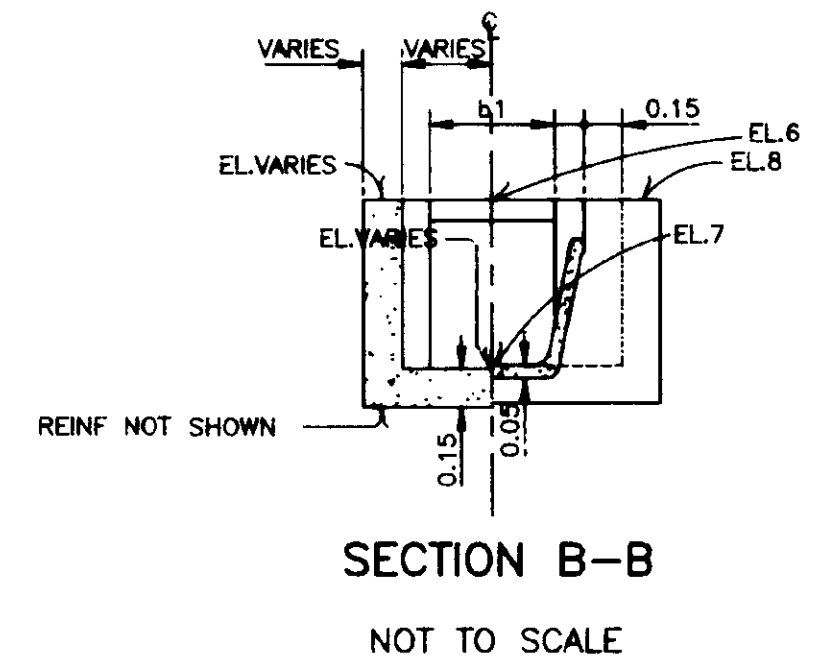
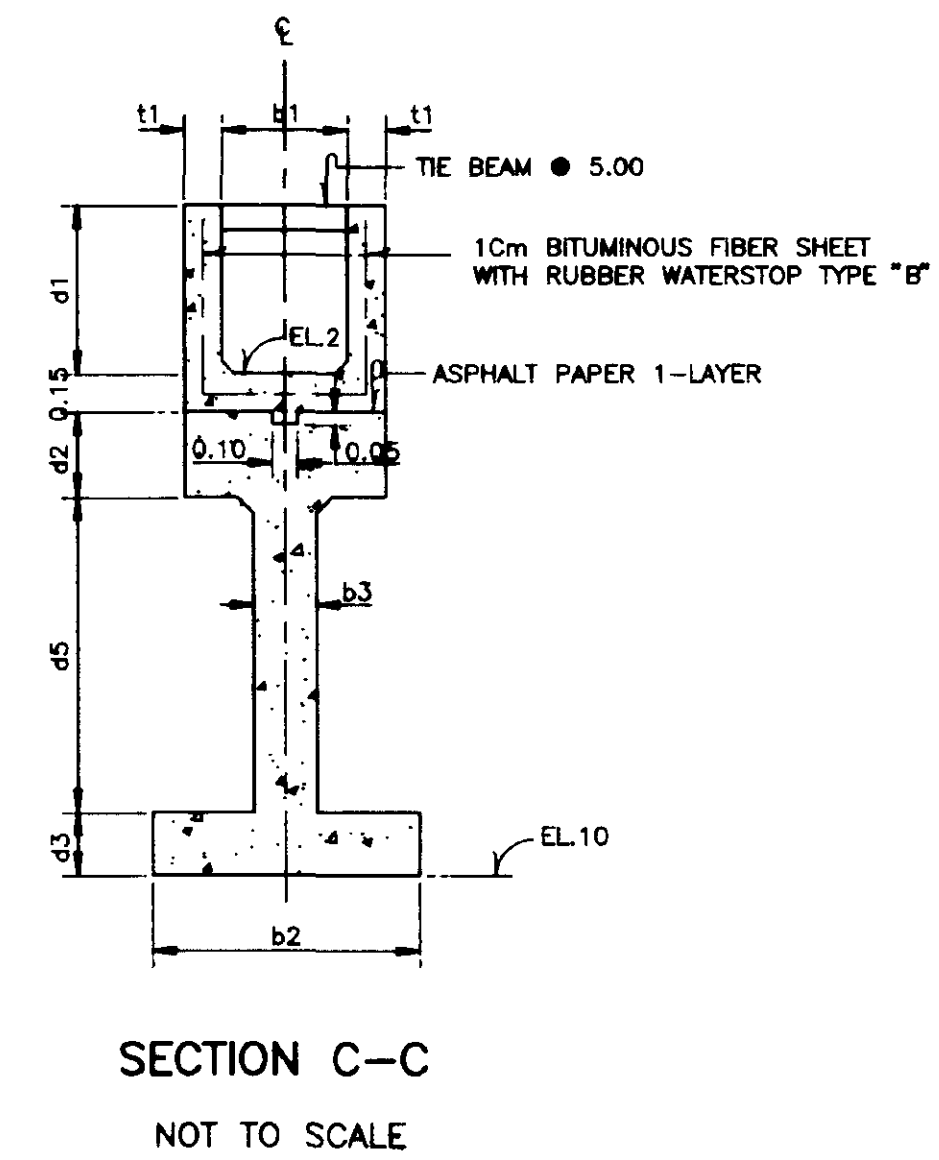
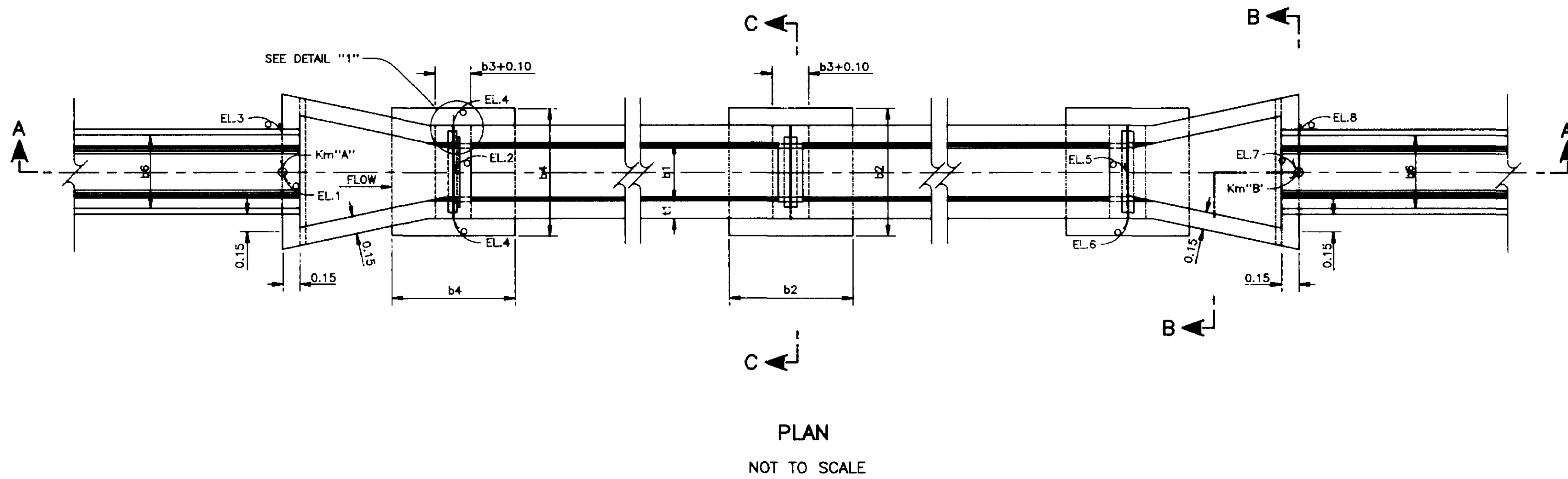
NOTES

1. GENERAL NOTES FOR U-SHAPE _____ DWG.NO. 145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE _____ DWG.NO. 145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
5. ASBESTOS CEMENT PIPE AND COUPLING (CLASS 15 KG./cm.²)
6. FOR LENGTH "L" SHOWN IN LONGITUDINAL PROFILE OF DITCH

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL PIPE FLUME STRUCTURE
FOR U-SHAPE

PLAN,SECTION AND DETAILS

							DESIGNED	<i>Rongson Tinjahn</i>	SUBMITTED	<i>N. wongsansak</i>	CS
							DRAWN	<i>Konglak Tunjina</i>	REVIEWED	<i>B O I / 92</i>	DD
							TRACED	<i>Papai Buranasin</i>	RECOMMENDED	<i>Oballa Kuntorn</i>	DI
							CHECKED	<i>Rongson Tinjahn</i>	APPROVED	<i>Phan P</i>	DO
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION ON-FARM DESIGN BRANCH	22.11.92 DATE	145118		



NOTES

- GENERAL NOTES FOR U-SHAPE. DWG. NO.145100
- LEGEND AND ABBREVIATION FOR U-SHAPE. DWG. NO.145101
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
- DESIGNED BEDSLOPE OF FLUMES EQUAL TO 0.002-0.0002
- ALLOWABLE BEARING CAPACITY OF FOUNDATION SOIL NOT LESS THAN 10 TON/M.²

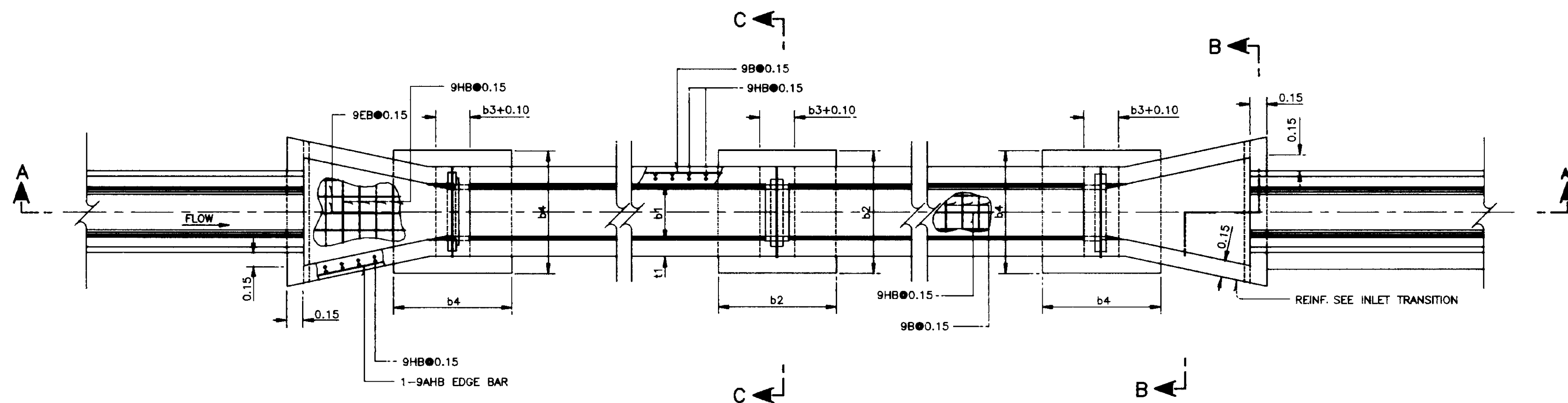
REFERENCE DRAWINGS

- TYPICAL ELEVATED FLUME PLAN, SECTIONS AND REINFORCEMENT. DWG. NO.145120
- FOOTINGS OF ELEVATED FLUME. DWG. NO.145121

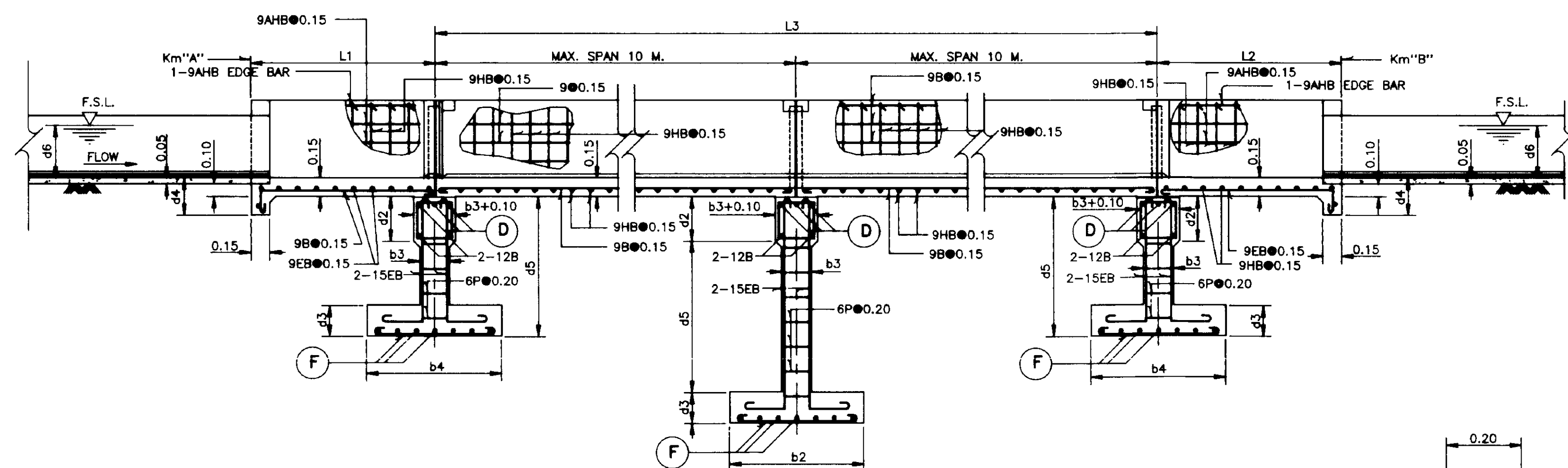
ELEVATED FLUME TYPE	SPAN OF FLUME (m)	FLUME AND PIER DIMENSIONS (cm)							ABUTMENT DIMENSIONS (cm)	TRANSITIONS (m)			REMARKS
		t1	b1	b2	b3	d1	d2	d3	d5=1.00,1.50,2.00 m	L1	L2	d4	
									b4				
EF-1-1	5	15	30	80	20	65	25	20	80	1.50	2.00	0.30	
EF-1-2	10	20	30	110	25	65	40	25	110	1.50	2.00	0.30	
EF-2-1	5	15	50	80	20	65	25	20	80	1.80	2.20	0.30	
EF-2-2	10	20	50	120	25	65	40	25	120	1.80	2.20	0.30	
EF-3-1	5	15	60	90	20	75	30	20	90	2.20	2.75	0.30	
EF-3-2	10	20	60	130	25	75	45	25	130	2.20	2.75	0.30	
EF-4-1	5	15	80	110	20	75	30	20	110	2.45	3.00	0.30	
EF-4-2	10	20	80	140	25	75	50	30	140	2.45	3.00	0.30	

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL ELEVATED FLUME STRUCTURE
FOR U-SHAPE
PLAN, SECTIONS AND DETAILS

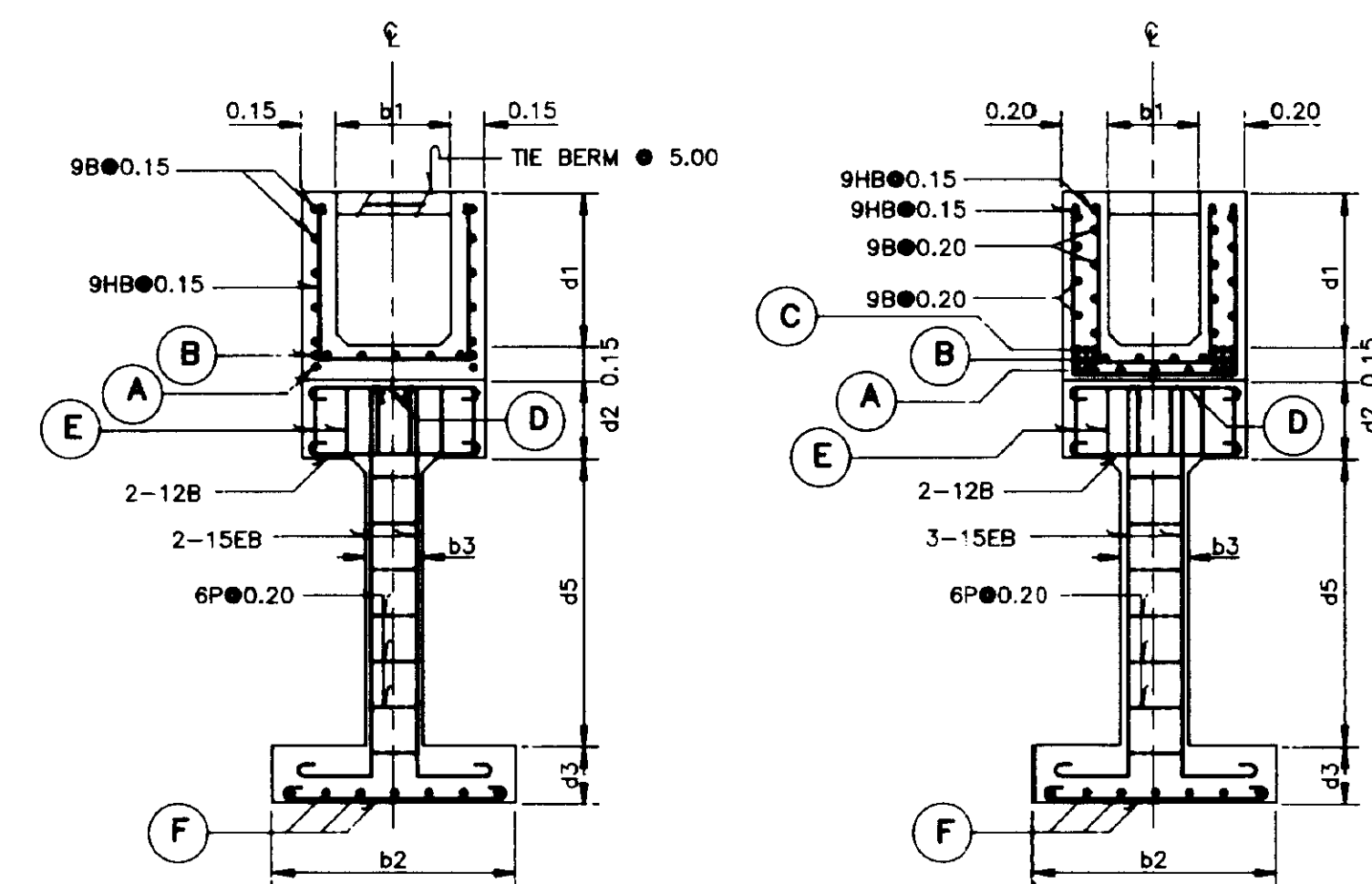
							DESIGNED	<i>E. P., V. V. V.</i>	SUBMITTED	<i>g. p. V. V. V.</i>	CS.
							DRAWN	<i>V. V. V.</i>	REVIEWED	<i>B. P. V. V.</i>	DD.
							TRACED	<i>V. V. V.</i>	RECOMMENDED	<i>B. P. V. V.</i>	DD.
							CHECKED	<i>g. p. V. V. V.</i>	APPROVED	<i>B. P. V. V.</i>	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION ON-FARM DESIGN BRANCH		22.10.21 DATE	145119	



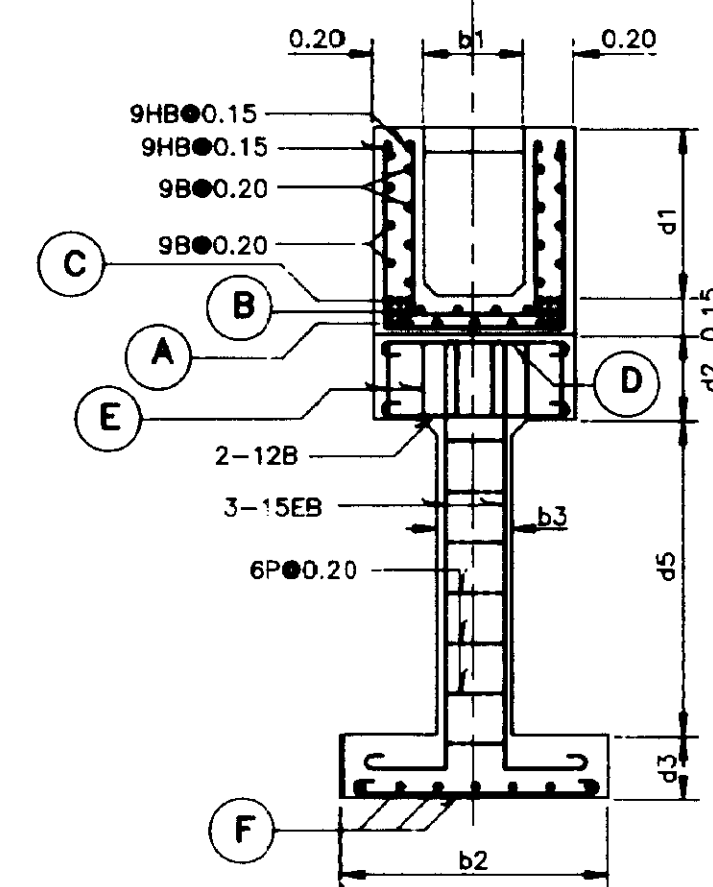
PLAN
NOT TO SCALE



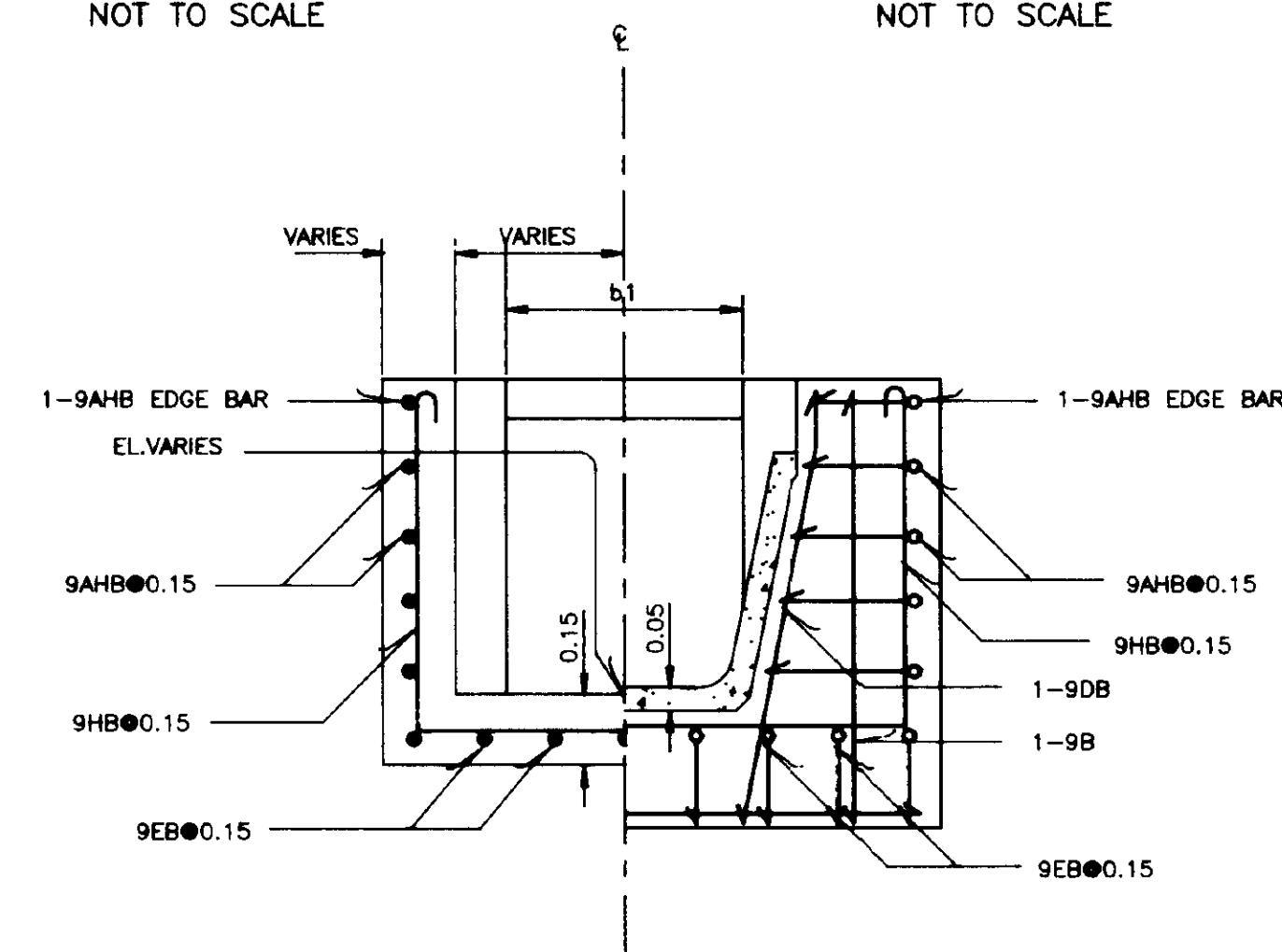
SECTION A-A
NOT TO SCALE



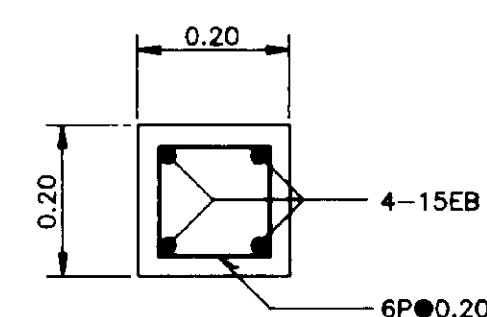
SECTION C-C
(SPAN 5.00)
NOT TO SCALE



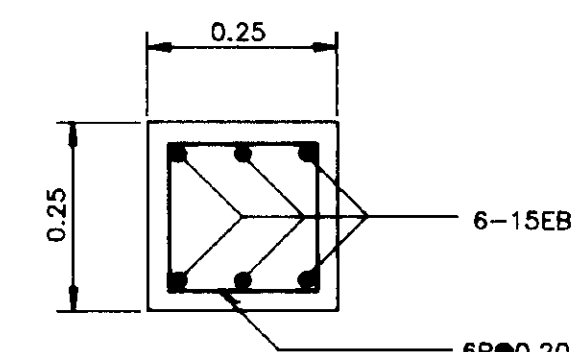
SECTION C-C
(SPAN 10.00)
NOT TO SCALE



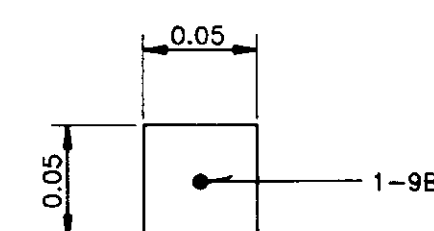
SECTION B-B
NOT TO SCALE



COLUMN SECTION
SIZE 0.20x0.20
NOT TO SCALE



COLUMN SECTION
SIZE 0.25x0.25
NOT TO SCALE



TIE BEAM SECTION
NOT TO SCALE

ELEVATED FLUME TYPE	STEEL REINFORCEMENTS							REMARKS
	SPAN	A	B	C	D	E	F	
EF-1-1	5	1-12B	1-9B	-	4-9B	6P@0.10	(7+7)-9B	
EF-1-2	10	3-12B	3-12B	2-12B	2-12+3-9B	6P@0.10	(7+7)-12B	
EF-2-1	5	1-12B	1-12B	-	2-12+2-9B	6P@0.10	(7+7)-9B	
EF-2-2	10	2-15B	2-15B	2-15B	5-12B	9P@0.15	(8+8)-12B	
EF-3-1	5	1-15B	1-12B	-	4-12B	6P@0.12	(8+8)-9B	
EF-3-2	10	3-15B	2-12+1-15B	2-12B	1-15+4-12B	9P@0.15	(10+10)-12B	
EF-4-1	5	1-15B	1-12B	-	2-15+2-12B	6P@0.12	(9+9)-9B	
EF-4-2	10	3-15B	2-12+1-15B	3-12B	2-15+3-12B	9P@0.15	(9+9)-12B	

NOTES

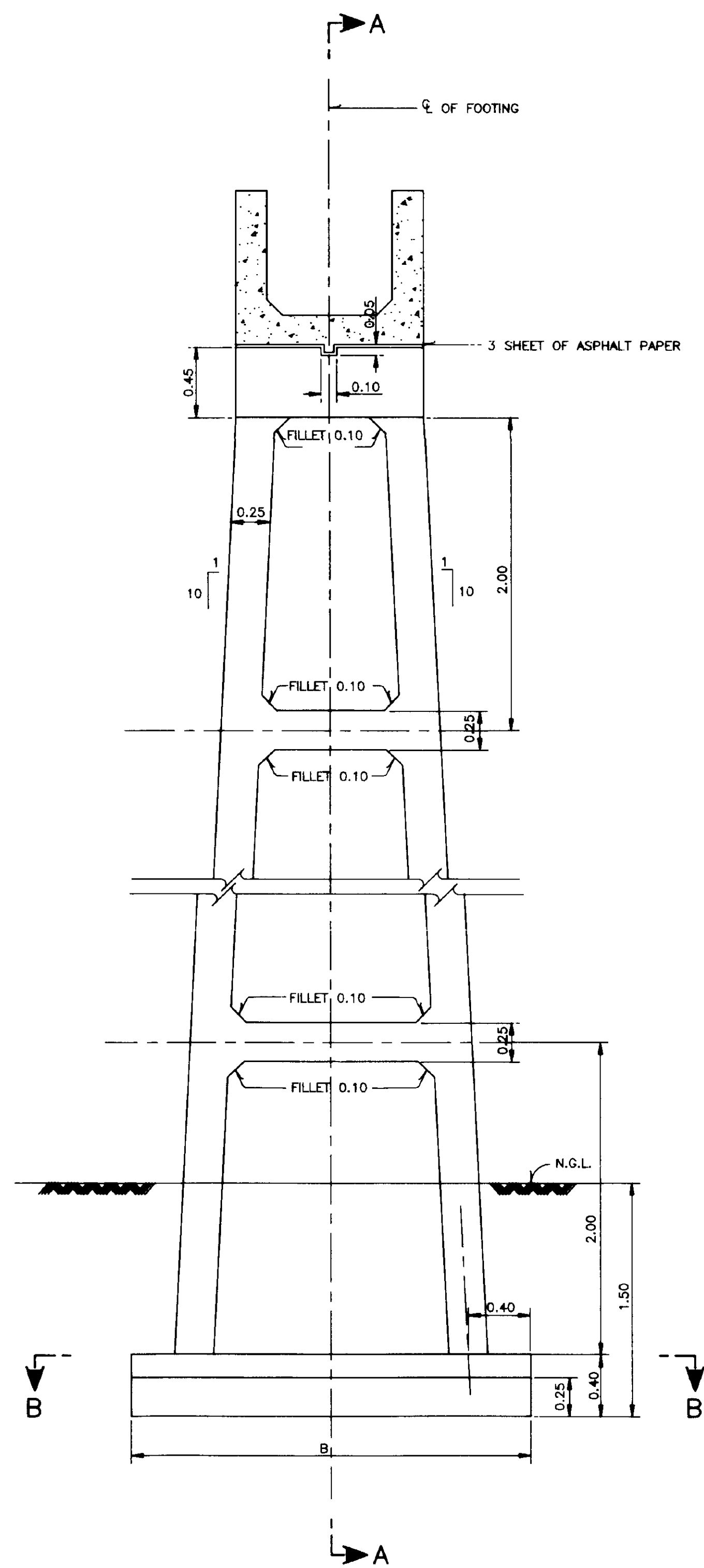
- GENERAL NOTES FOR U-SHAPE. DWG. NO.145100
- LEGEND AND ABBREVIATION FOR U-SHAPE. DWG. NO.145101
- ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
- DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWINGS

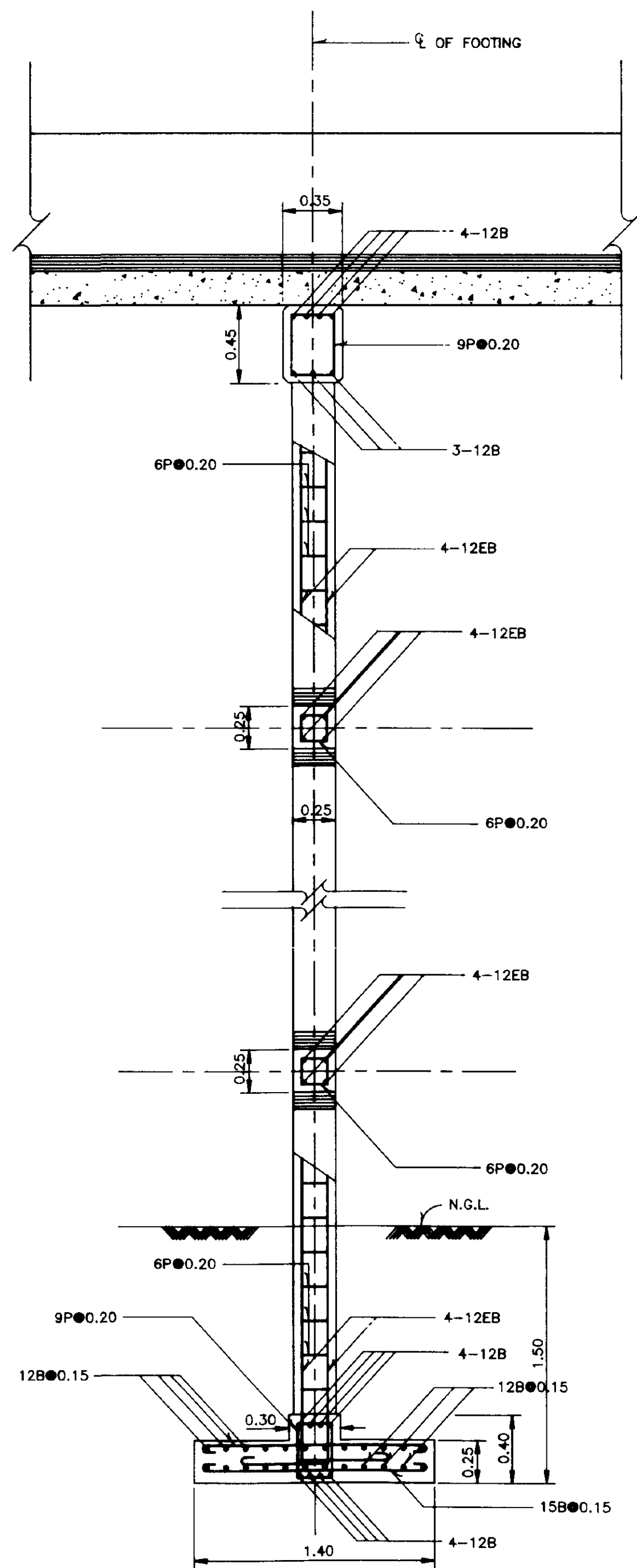
- TYPICAL ELEVATED FLUME PLAN SECTIONS AND DETAILS. DWG. NO.145119
- FOOTINGS OF ELEVATED FLUME. DWG. NO.145121

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL ELEVATED FLUME STRUCTURE
FOR U-SHAPE
PLAN, SECTIONS AND REINFORCEMENT

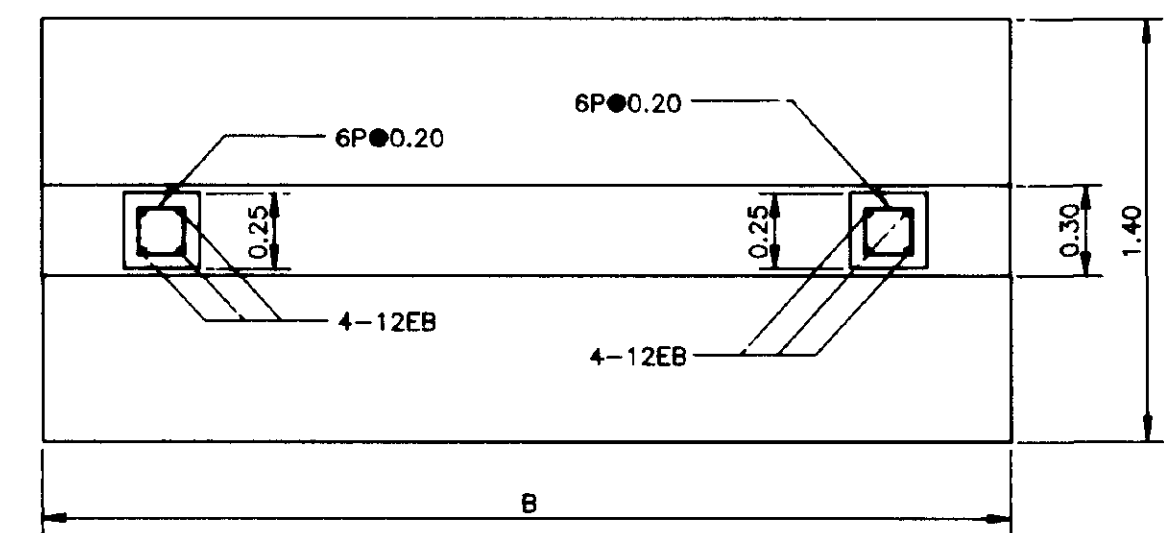
							DESIGNED	<i>V. Pananaka</i>	SUBMITTED	<i>systema chikitsamant</i>	CS.
							DRAWN	<i>V. Pananaka</i>	REVIEWED	<i>B. O. V. S.</i>	DD.
							TRACED	<i>V. Pananaka</i>	RECOMMENDED	<i>On-va Varnatru</i>	DD.
							CHECKED	<i>systema chikitsamant</i>	APPROVED	<i>On-va Varnatru</i>	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION ON-FARM DESIGN BRANCH		DATE	145120	



FOOTING OF ELEVATED FLUME
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE

NOTES

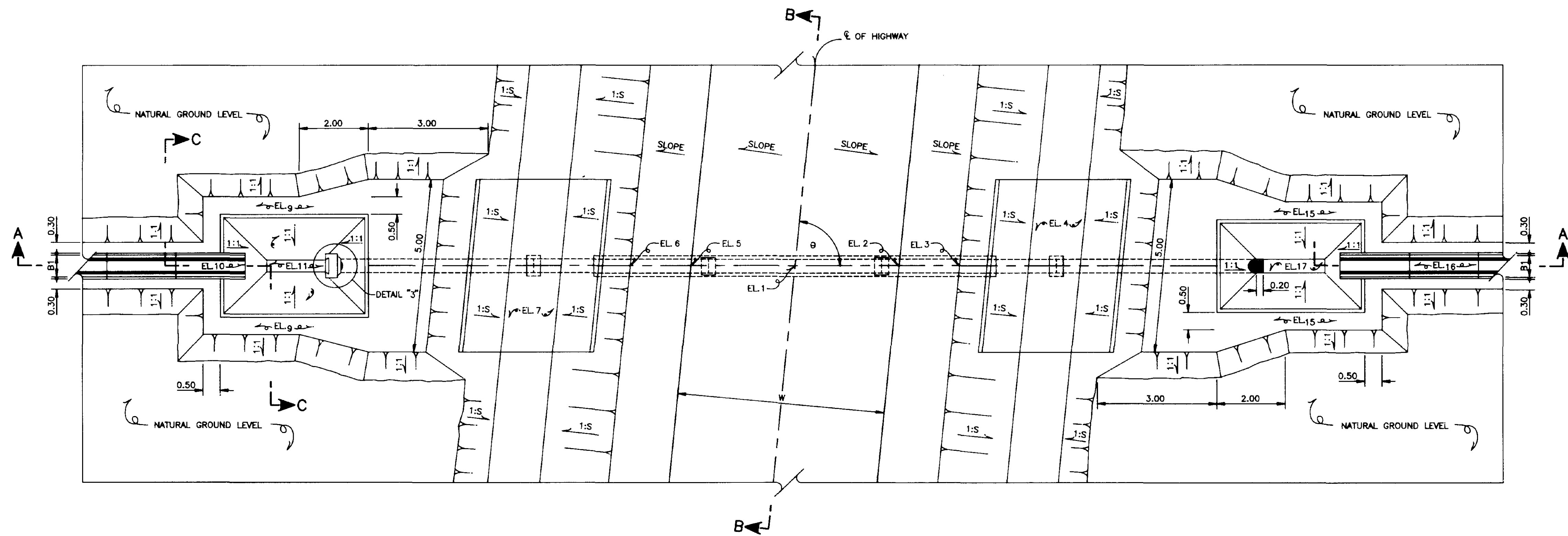
1. GENERAL NOTES FOR U-SHAPE. DWG. NO.145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE. DWG. NO.145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
5. SOIL BEARING CAPACITY MUST NOT BE LESS THAN 10 ton/m²

REFERENCE DRAWINGS

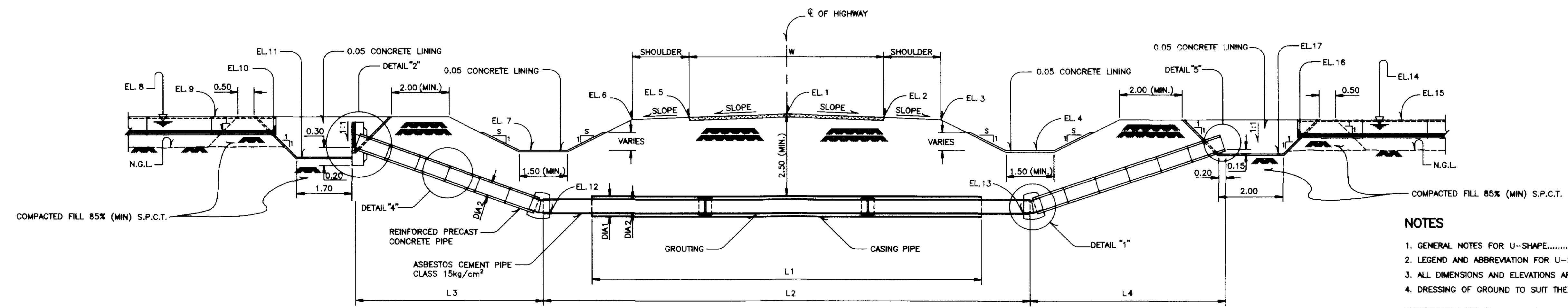
1. TYPICAL ELEVATED FLUME PLAN,SECTION AND DETAILS. DWG. NO.145119
2. TYPICAL ELEVATED FLUME PLAN,SECTIONS AND REINFORCEMENT. DWG. NO.145120

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
FOOTINGS OF ELEVATED FLUME
(HEIGHT BETWEEN 2.00-8.00)

DESIGNED	<i>Engr. P. V. Purohit</i>	SUBMITTED	<i>systeme chitramant</i>	CS.
DRAWN	<i>V. Purohit</i>	REVIEWED	<i>B. P. Purohit</i>	DD.
TRACED	<i>V. Purohit</i>	RECOMMENDED	<i>Chitramant</i>	DD.
CHECKED	<i>systeme chitramant</i>	APPROVED	<i>Chitramant</i>	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM.
				APPROVED
				DESIGN DIVISION
				ON-FARM DESIGN BRANCH
				DATE
				145121



PLAN
NOT TO SCALE



SECTION A-A
NOT TO SCALE

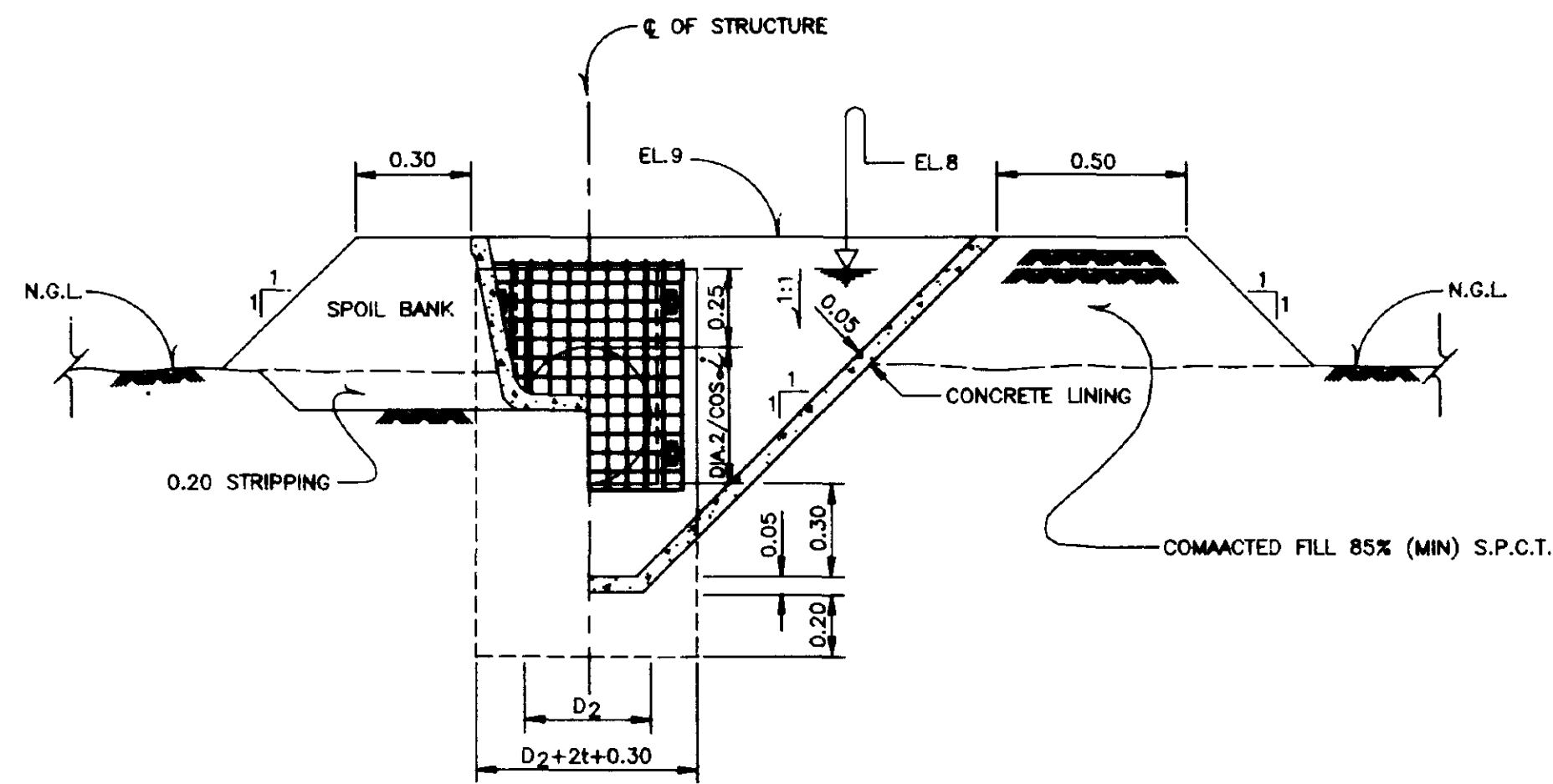
NOTES

1. GENERAL NOTES FOR U-SHAPE.....DWG.NO.145100
2. LEGEND AND ABBREVIATION FOR U-SHAPE.....DWG.NO.145101
3. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

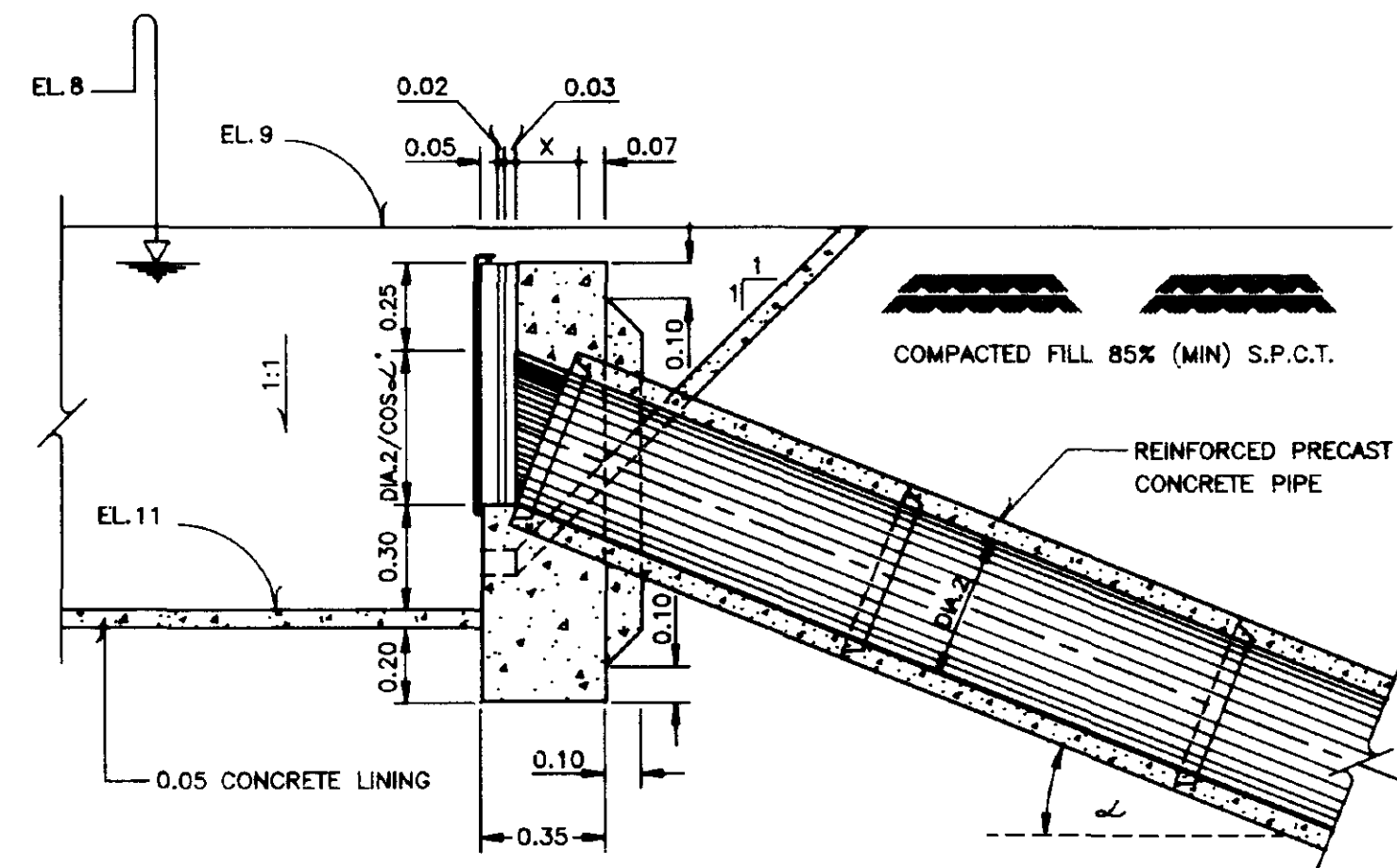
REFERENCE DRAWING

1. TYPICAL HIGHWAY CULVERT IN DITCH STRUCTURE .
(SECTIONS, REINFORCEMENT AND DETAILS).....DWG.NO.145123
2. TYPICAL REINFORCEMENT PRECAST CONCRETE PIPE..... 1501-2-002

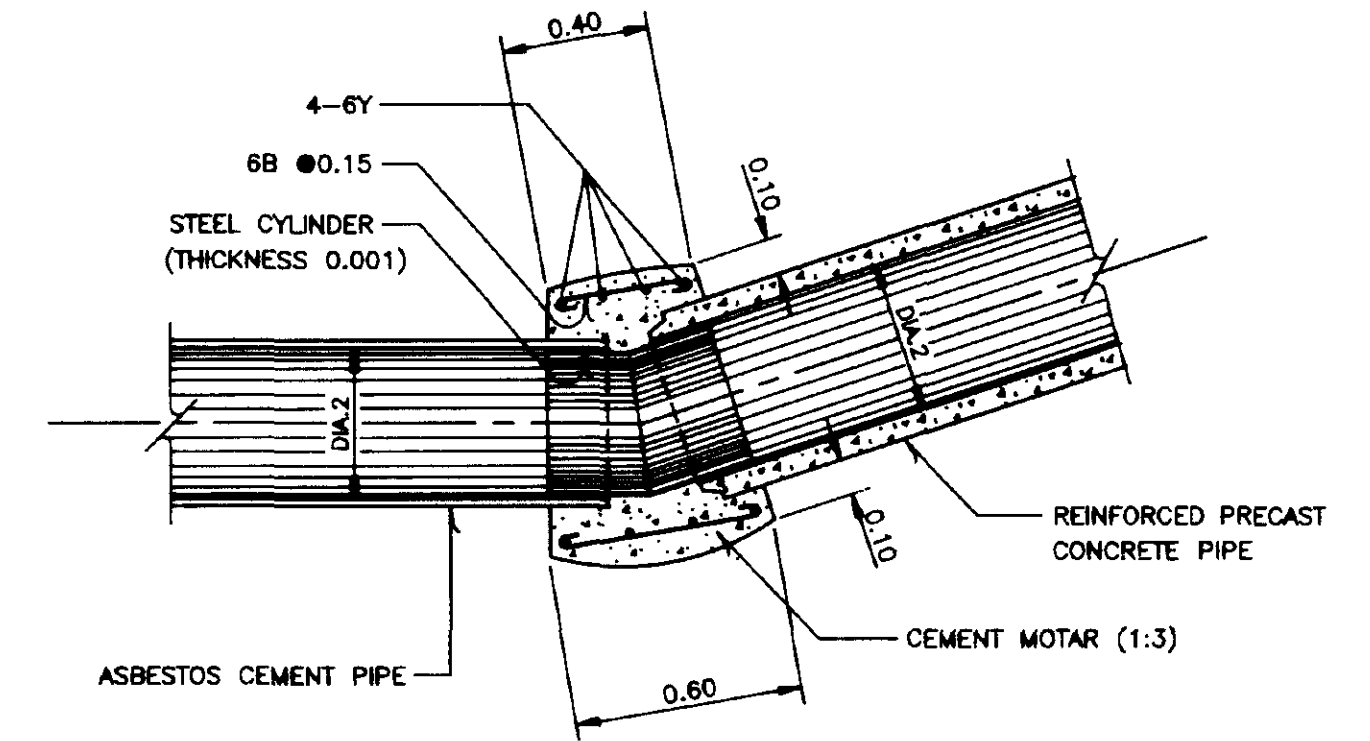
ROYAL IRRIGATION DEPARTMENT										
ON-FARM IRRIGATION SYSTEM										
TYPICAL HIGHWAY CULVERT IN DITCH STRUCTURE										
FOR U-SHAPE										
PLAN AND SECTION										
DESIGNED	145122	Marroch R.	SUBMITTED	145122	CS.					
DRAWN	Marroch R.	REVIEWED	145122	DD.						
TRACED	Marroch R.	RECOMMENDED	145122	DD.						
CHECKED	145122	APPROVED	145122	DG.						
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOM.	APPROVED	DESIGN DIVISION IRRIGATION SYSTEM DESIGN BRANCH	145122	DATE	



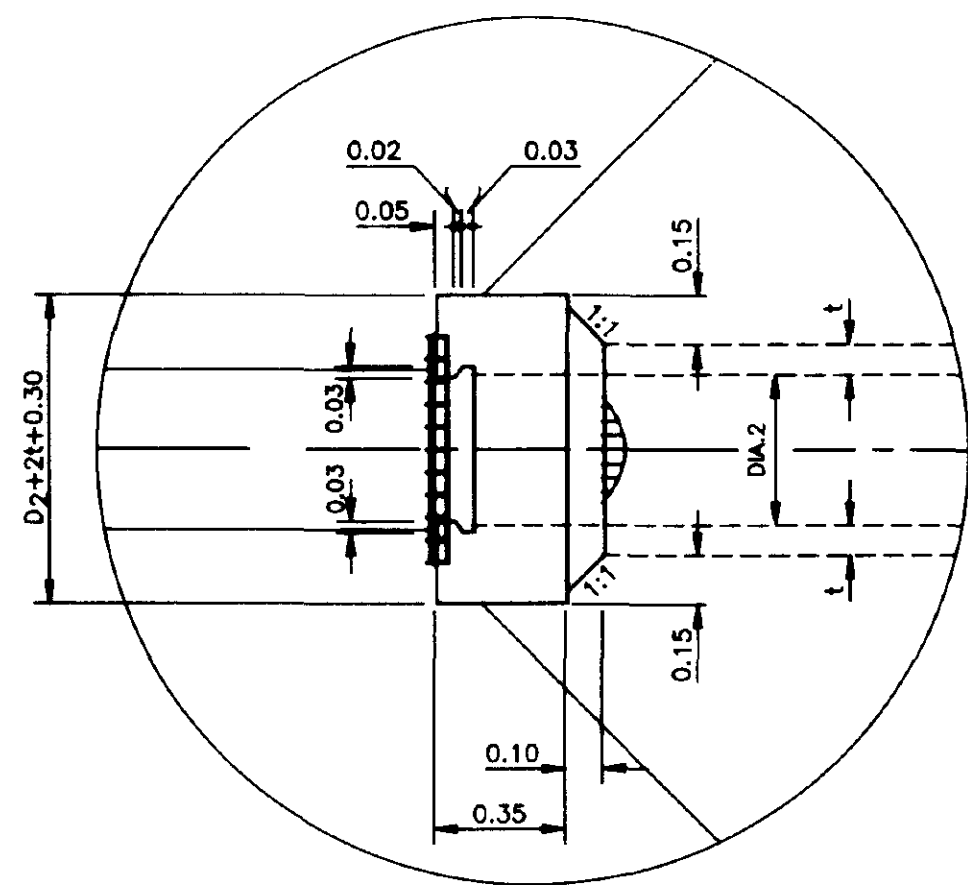
SECTION C-C
NOT TO SCALE



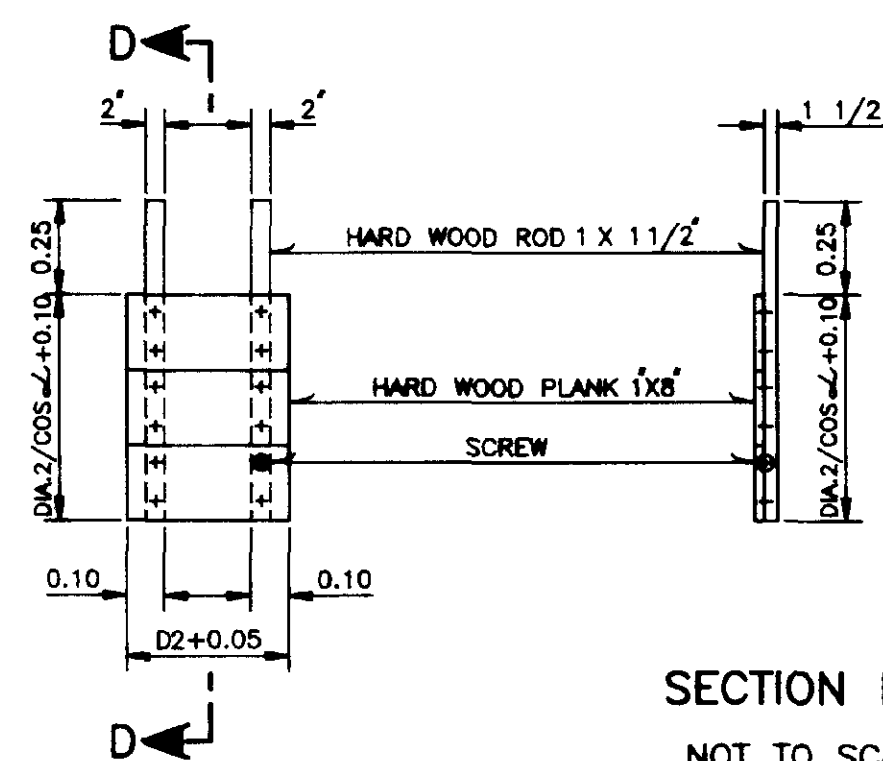
DETAIL "2"
NOT TO SCALE



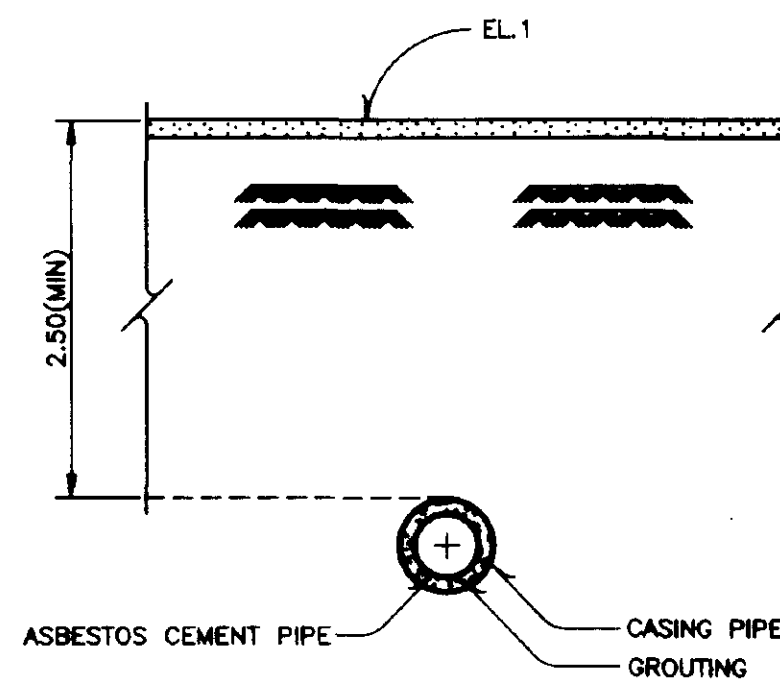
DETAIL "1"
NOT TO SCALE



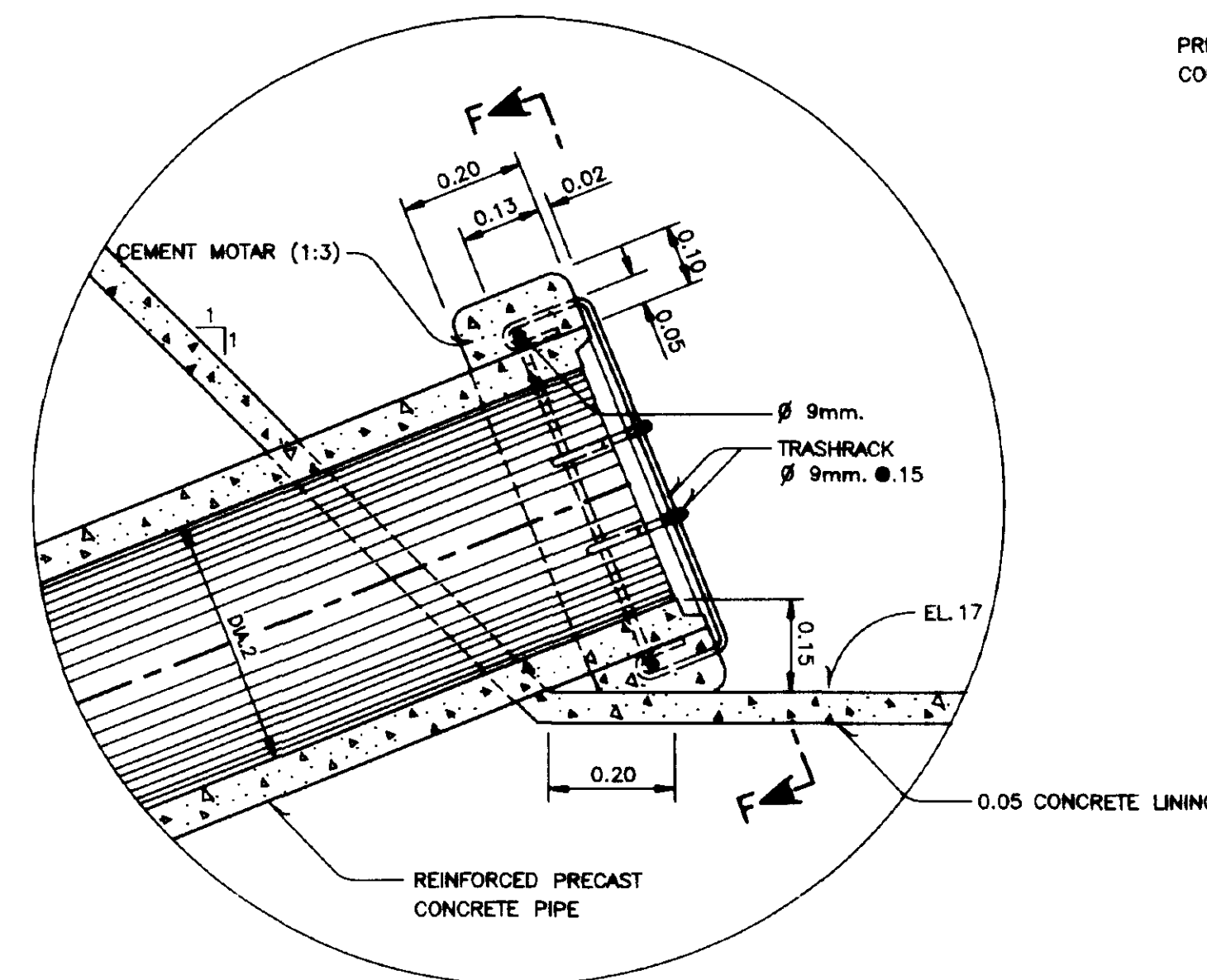
DETAIL "3"
NOT TO SCALE



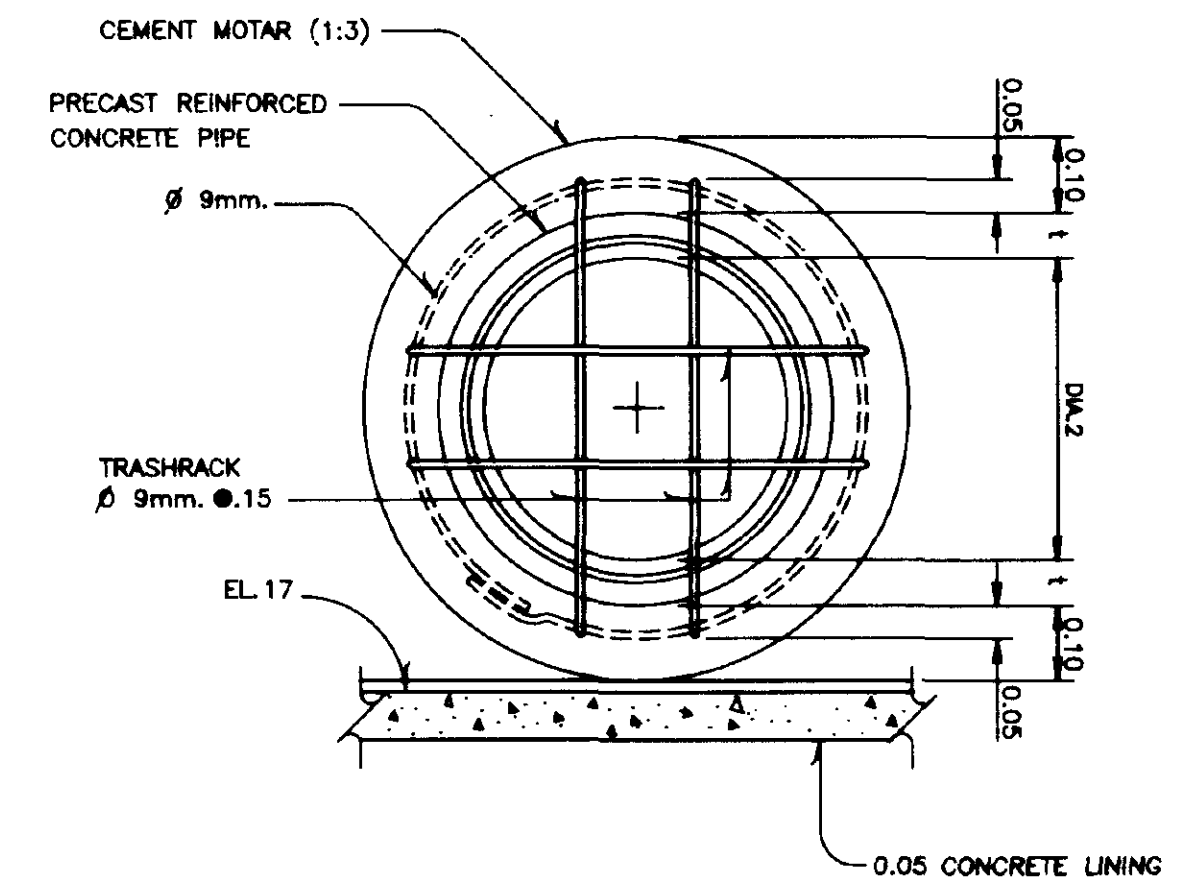
SECTION D-D
NOT TO SCALE



SECTION B-B
NOT TO SCALE

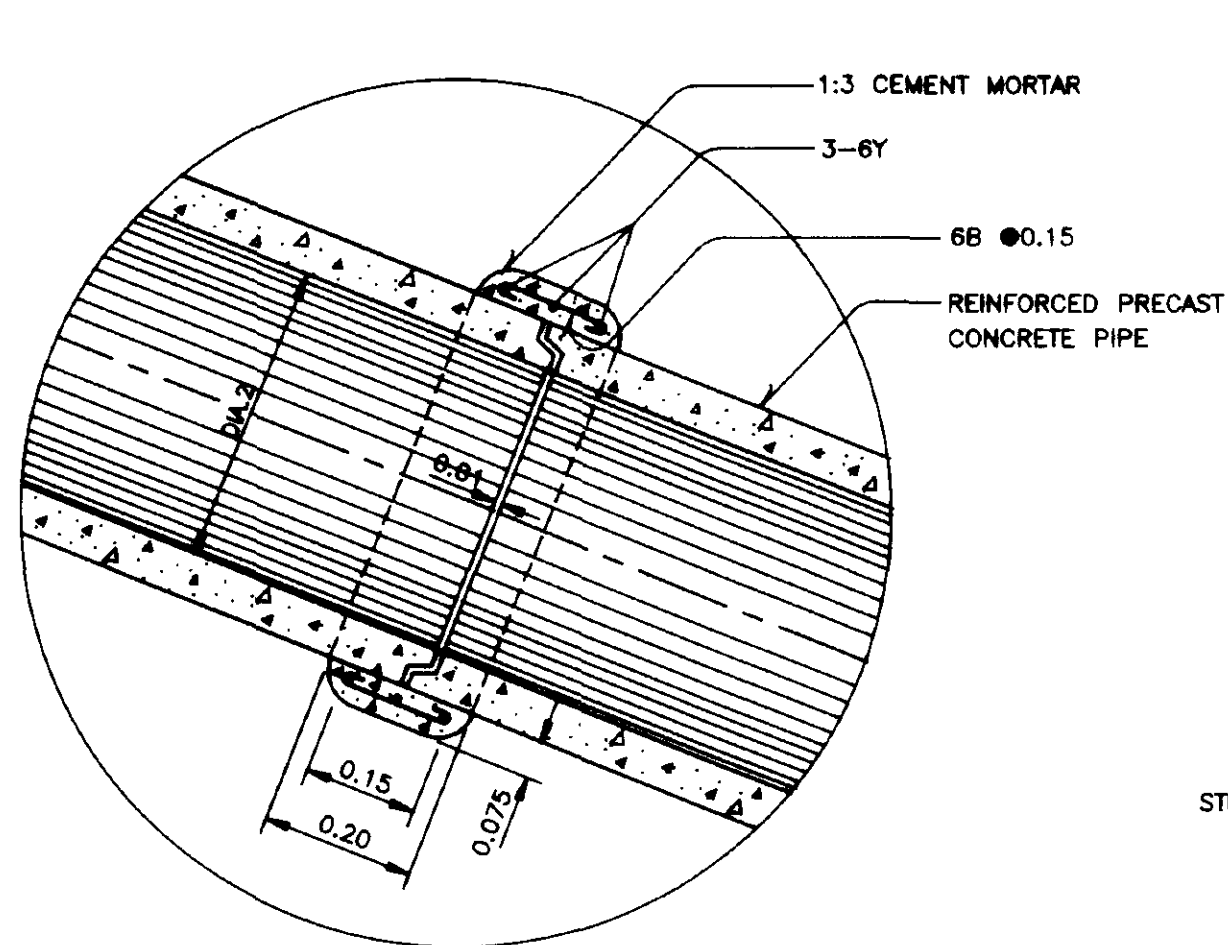


DETAIL "5"
NOT TO SCALE

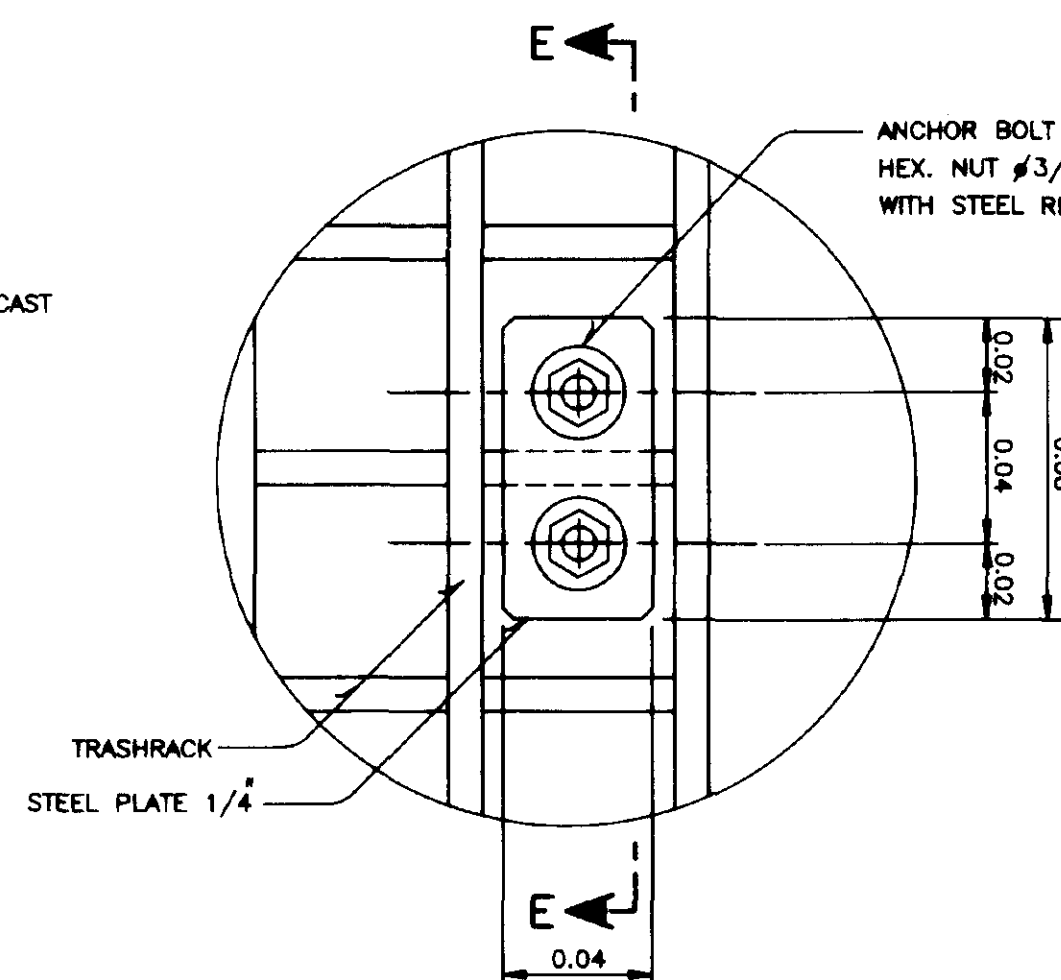


SECTION F-F
NOT TO SCALE

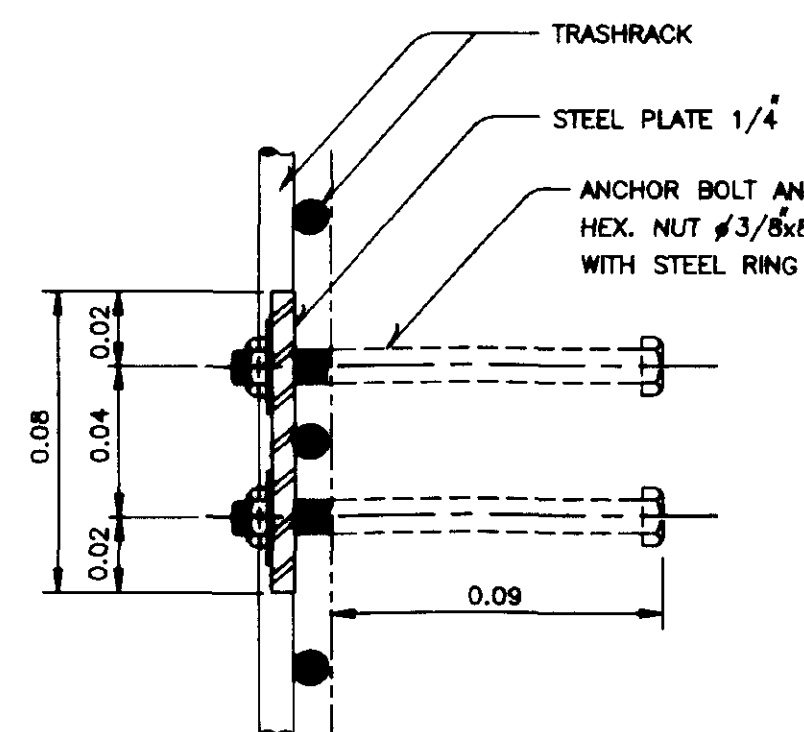
DETAIL OF GATE
NOT TO SCALE



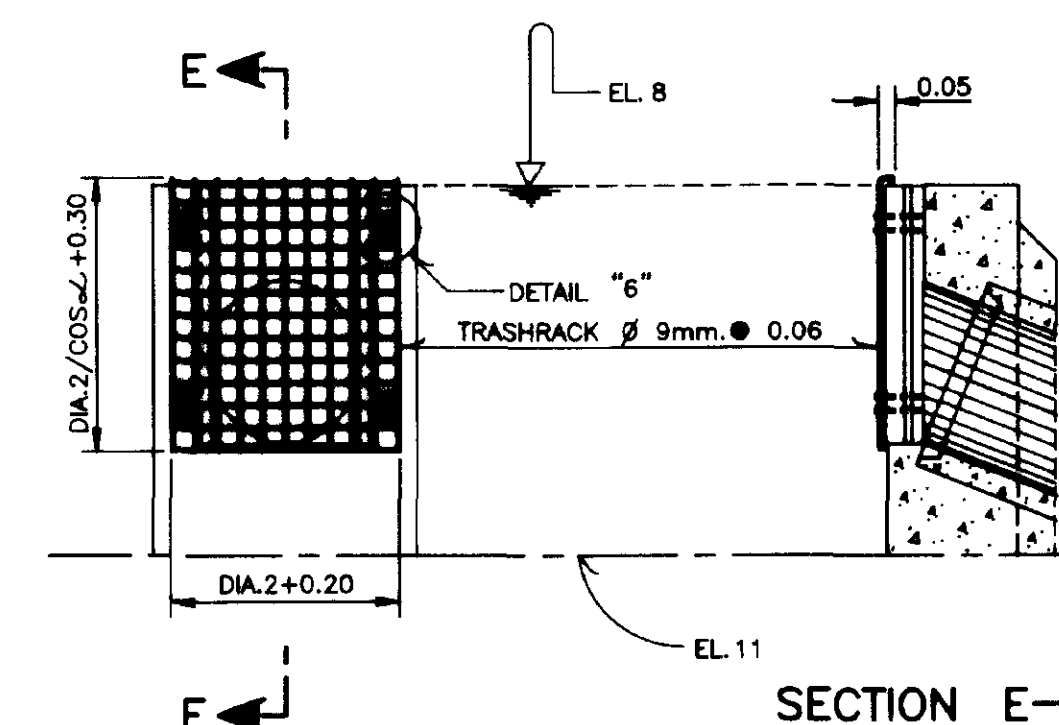
DETAIL "4"
NOT TO SCALE



DETAIL "6"
NOT TO SCALE



SECTION E-E
NOT TO SCALE



DETAIL OF TRASHRACK
NOT TO SCALE

SECTION E-E
NOT TO SCALE

NOTES

1. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS.
2. USE ASBESTOS CEMENT PIPE DIAMETER CLASS 15 kg/cm².
3. AFTER READY THE ALIGNMENT OF CONSTRUCTION GROUTING INSIDE BETWEEN THE ASBESTOS CEMENT PIPE AND PIPE CASING.
4. CEMENT GROUTING NEED THE PORTION CEMENT : SAND : GRAVEL 1 : 1.5 : 3.5 BY WEIGHT AND WATER CEMENT RATIO IS NOT EXCEED 0.50 INCLUDE THE GREATEST OF GRAVEL IS NOT BIGGER THAN 1/2".
5. COMPACTION OF BANKS SHOULD BE 95% MIN. STANDARD PROCTOR COMPACTION TEST.
6. DECORATE THE BOUNDARY OF UNDER CONSTRUCTION WITH STANDARD OF DEPARTMENT OF HIGHWAYS.
7. BEFORE CONSTRUCTION IT SHOULD BE MADE TRAFFIC SYSTEM SUITABLE WITH AGREEMENT FROM DEPARTMENT OF HIGHWAYS.
8. ALL STEEL SURFACES SHALL BE PAINTED, RUST-RESISTANCE PAINT SHALL BE APPLIED IN ONE COAT AND FINISH OIL COLOUR SHALL BE APPLIED IN TWO COATS.

REFERENCE DRAWING

1. TYPICAL HIGHWAY CULVERT IN DITCH STRUCTURE (PLAN AND SECTION).....DWG.NO.145122

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL HIGHWAY CULVERT IN DITCH STRUCTURE
FOR U-SHAPE
SECTIONS, REINFORCEMENT AND DETAILS

							DESIGNED	<i>Marnoch R.</i>	SUBMITTED	<i>spina chittarant.</i>	CS.
							DRAWN	<i>Marnoch R.</i>	REVIEWED	<i>B. B. J. S.</i>	DD.
							TRACED	<i>Marnoch R.</i>	RECOMMENDED	<i>Chai Vanthorn</i>	DD.
							CHECKED	<i>spina chittarant.</i>	APPROVED	<i>Chai Vanthorn</i>	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOM.	APPROVED	DESIGN DIVISION IRRIGATION SYSTEM DESIGN BRANCH		DATE	145123	

ELEVATED FLUME INSTALLATION DATA

CANAL	DITCH NO.	Km''A''	Km''B''	Q l/sec	ELEVATED FLUME TYPE	DIMENSIONS (m)				BED SLOPE	ELEVATION (m)											1:Z	DESIGNED	CHECKED	REMARK
						b6	d6	d7	L3		EL.1	EL.2	EL.3	EL.4	EL.5	EL.6	EL.7	EL.8	EL.9	EL.10	EL.11				

NOTES

1. GENERAL NOTES FOR U-SHAPE. DWG. NO.145100

2. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.

REFERENCE DRAWINGS

1. TYPICAL ELEVATED FLUME PLAN, SECTIONS AND DETAILS. DWG. NO.145119

2. TYPICAL ELEVATED FLUME PLAN, SECTIONS AND REINFORCEMENT DWG. NO.145120

3. FOOTINGS OF ELEVATED FLUME. DWG. NO.145121

ROYAL IRRIGATION DEPARTMENT

ON-FARM IRRIGATION SYSTEM

INSTALLATION DATA OF ELEVATED FLUME

							DESIGNED		SUBMITTED		CS.	
							DRAWN		REVIEWED		DDD.	
							TRACED		RECOMMENDED		DD.	
							CHECKED		APPROVED		DG.	
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	DESIGN DIVISION ON—FARM DESIGN BRANCH					DATE