

LEGEND

	CANAL
	DRAINAGE CANAL
	DITCH
	BOUNDARY LINE
	PURPOSE DRAINAGE ALIGNMENT
	RIVER OR NATURAL DRAIN
	VILLAGE
	SWAMP OR POND
	ROAD OR LATERITE ROAD
	TRACK
	LOW ROAD PIPE CHECK STRUCTURE OR SIPHON
	CHECK STRUCTURE
	CHECK DROP STRUCTURE
	CHECK CULVERT OR ROADWAY CULVERT WITH CHECK STRUCTURE
	CHECK DROP CULVERT OR ROADWAY CULVERT WITH CHECK DROP STRUCTURE
	ROADWAY CULVERT OR LIVESTOCK CROSSING STRUCTURE
	ENTRANCE CULVERT STRUCTURE

LEGEND

	WALKWAY PLANKS
	NORMAL SLOPE DITCH TO STEEP SLOPE DITCH STRUCTURE
	STEEP SLOPE TO NORMAL SLOPE STRUCTURE
	BEND STRUCTURE FOR STEEP SLOPE DITCH
	WASTEWAY STRUCTURE
	DRAIN CULVERT STRUCTURE
	FLUME
	FARM TURNOUT
	NEW FARM TURNOUT
	DITCH TURNOUT
	FARM INLET
	FARM INLET IN STEEP SLOPE DITCH STRUCTURE
	FARM INLET WITH DROP
	FARM INLET UNDER ROAD
	FARM INLET UNDER ROAD WITH DROP
	END OF DITCH

ABBREVIATION

B	=	BOTTOM WIDTH OF DITCH
D	=	DEPTH OF WATER
F	=	FREEBOARD
Q	=	DISCHARGE OF WATER
S	=	LONGITUDINAL SLOPE
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
Km	=	KILOMETER
m	=	METER
cm	=	CENTIMETER
STR.	=	STRUCTURE
I	=	DEFLECTION ANGLE
F.T.O	=	FARM TURNOUT
LMC.	=	LEFT MAIN CANAL
RMC.	=	RIGHT MAIN CANAL
RWC.	=	ROADWAY CULVERT STRUCTURE
RWC./C	=	ROADWAY CULVERT WITH CHECK STRUCTURE
LR./C	=	LOW ROAD PIPE CHECK STRUCTURE
C/C	=	CHECK CULVERT STRUCTURE
C/D	=	CHECK DROP STRUCTURE
DC.	=	DRAIN CULVERT STRUCTURE
N.-SL.	=	NORMAL SLOPE DITCH TO STEEP SLOPE DITCH STRUCTURE
SL.-N.	=	STEEP SLOPE TO NORMAL SLOPE STRUCTURE
SL.-B.	=	BEND STRUCTURE FOR STEEP SLOPE DITCH
SL.-F.	=	FARM INLET IN STEEP SLOPE DITCH STRUCTURE

ROYAL IRRIGATION DEPARTMENT

ON-FARM IRRIGATION SYSTEM

LEGEND AND ABBREVIATION

DESIGNED	Sirindai Gavitha	SUMMITTED	Apiyat Sook-hai	CS.
DRAWN	Sirindai Gavitha	REVIEWED	B. OP. 7m	DDD.
TRACED	ma	RECOMMENDED	Sirindai	Dir.OEDA
CHECKED	Tammy T.	APPROVED	Sirindai	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM.
				APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE				5.11.42
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				DATE
				165500

GENERAL NOTES FOR STRUCTURES

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

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

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

PROCTOR COMPACTION TEST.
4. STRESS :

REINFORCED CONCRETE FOR ON-FARM WORKS.

- STRUCTURES 140 Kg./cm.²

- PLAIN CONCRETE 120 Kg./cm.²

- 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. EDGE BARS TO BE PLACED AT A DISTANCE OF 5 CM. CENTERLINE FROM AT JOINTS
7. FOR NOTATION OF BARS REFER TO R.I.D.'S STANDARDS SPACING OF BARS SHOWN

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

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

FIELD CONDITIONS AND AS DIRECTED BY R.I.D.'S FIELD SUPERVISOR.
12. FARM INLET SHALL BE PREFABRICATED CONCRETE PIPE ø 0.20 m.

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 PROVIDE IN THE PROFILES. FINAL LOCATION WILL THEREFORE BE DETERMINED

BY FIELD'S ENGINEER.
4. COMPACTION OF BANKS SHOULD BE 85 % MIN. OF THE STANDARD PROCTOR COMPACTION TEST.
5. LINING SHOULD BE CAST DISCONTINUOUSLY IN PANELS 3.00 M. LONG JOINTS BETWEEN

PANELS SHOULD BE WORKED OUT AS "DUMMY JOINTS" WITH SOME MASTIC OR JOINT

FILLER FILLING UP THE JOINT CAVITY (ALONG THE CANAL INNER SURFACE)
6. 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.

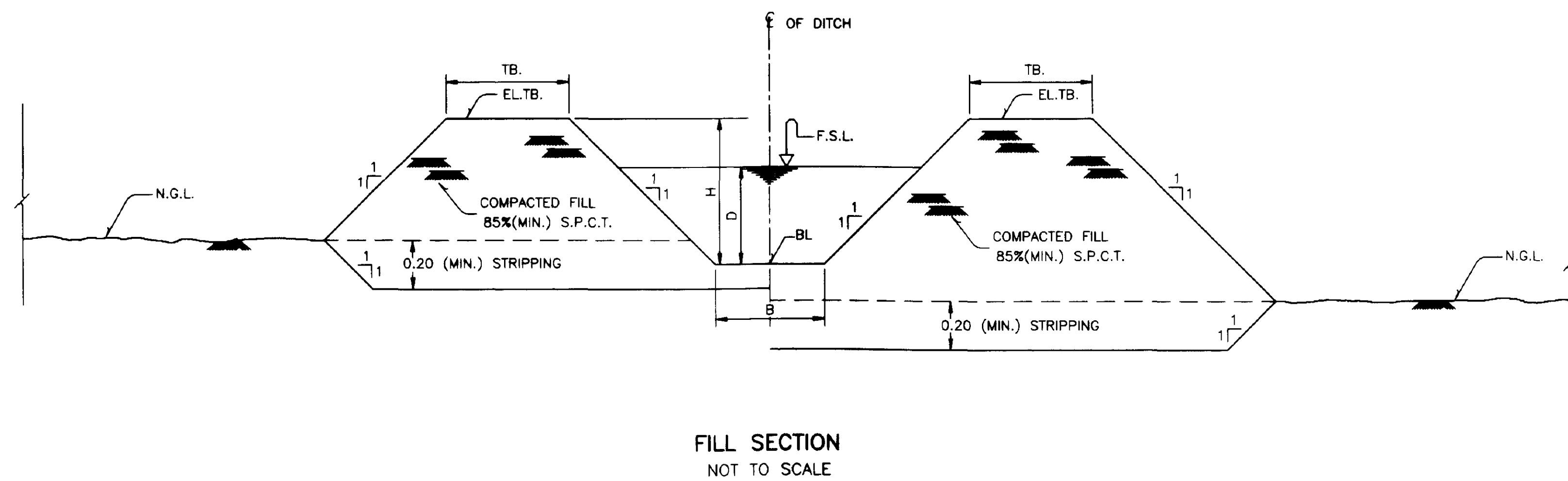
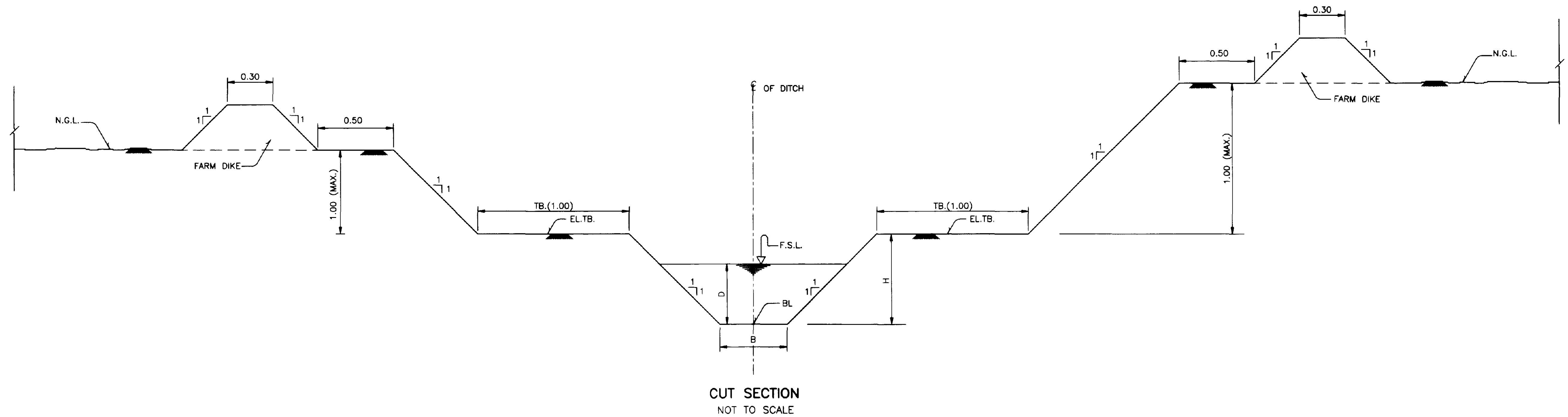
ACCURATE LOCATION OF STRUCTURES WILL ALSO BE DETERMINDED BY HIM IN EACH

SPECIFIC CASE, AS THE STATION GIVEN IN PROFILES IS ONLY APPROXIMATE.
7. WHEREVER THERE IS A CHANGE OF DIRECTION IN THE EARTH DITCH ALIGNMENT $\hat{i} \geq 90^\circ$

THE SECTION SHOULD BE LINED, 0.05 M. THICKNESS AT THE BEND, THE LINING SHOULD

BE EXTENDED UP TO 1.00 M. UPSTREAM AND 2.00 M. DOWNSTREAM.

							ROYAL IRRIGATION DEPARTMENT				
							ON-FARM IRRIGATION SYSTEM				
							GENERAL NOTES				
							DESIGNED	Sirichai Gavira	SUMMITTED	Apimt Sakh-ain	CS.
							DRAWN	Sirichai Gavira	REVIEWED	E. OP-75A	DDD.
							TRACED	haxi	RECOMMENDED	Saunde	Dir.OEDA
							CHECKED	Tanong J.	APPROVED	Saunde gar	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH		5.11.42 DATE	165501	



DIMENSION OF DITCH

SLOPE	TYPE "E1"								TYPE "E2"								TYPE "E3"								TYPE "E4"			
	Q=0.030 (cms.)		Q=0.060 (cms.)		Q=0.090 (cms.)		H (m.)	TB. (m.)	Q=0.060 (cms.)		Q=0.090 (cms.)		Q=0.120 (cms.)		H (m.)	TB. (m.)	Q=0.090 (cms.)		Q=0.120 (cms.)		H (m.)	TB. (m.)	Q=0.120 (cms.)		H (m.)	TB. (m.)		
	B (m.)	D (m.)	B (m.)	D (m.)	B (m.)	D (m.)			B (m.)	D (m.)	B (m.)	D (m.)	B (m.)	D (m.)			B (m.)	D (m.)	B (m.)	D (m.)								
1:4,000	0.30	0.31	—	—	—	—	0.55	0.50 — 2.10	0.40	0.40	—	—	—	—	0.65	0.50 — 1.80	0.50	0.46	—	—	0.70	0.50 — 1.80	0.50	0.53	0.75	0.50 — 1.50		
1:3,500	0.30	0.30	—	—	—	—	0.55		0.40	0.39	—	—	—	—	0.65		0.50	0.44	—	—	0.70		0.50	0.51	0.75			
1:3,000	0.30	0.29	—	—	—	—	0.55		0.40	0.38	—	—	—	—	0.65		0.50	0.43	0.50	0.49	0.70		—	—	—			
1:2,500	0.30	0.28	—	—	—	—	0.55		0.40	0.36	0.40	0.44	—	—	0.65		0.50	0.41	0.50	0.47	0.70		—	—	—			
1:2,000	0.30	0.26	—	—	—	—	0.55		0.40	0.34	0.40	0.41	—	—	0.65		0.50	0.38	0.50	0.44	0.70		—	—	—			
1:1,500	0.30	0.24	0.30	0.35	—	—	0.55		0.40	0.31	0.40	0.39	0.40	0.45	0.65		0.50	0.36	0.50	0.41	0.70		—	—	—			
1:1,000	0.30	0.22	0.30	0.31	0.30	0.38	0.55		0.40	0.28	0.40	0.35	0.40	0.40	0.65		0.50	0.32	0.50	0.37	0.70		—	—	—			
1:500	0.30	0.18	0.30	0.26	0.30	0.32	0.55		0.40	0.24	0.40	0.29	0.40	0.34	0.65		0.50	0.27	0.50	0.31	0.70		—	—	—			

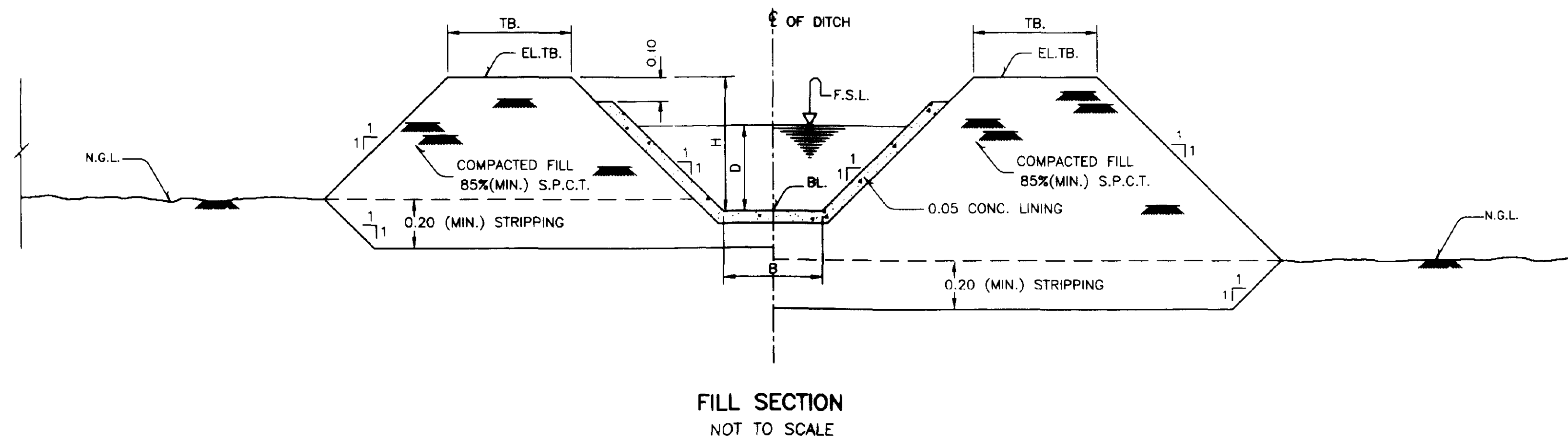
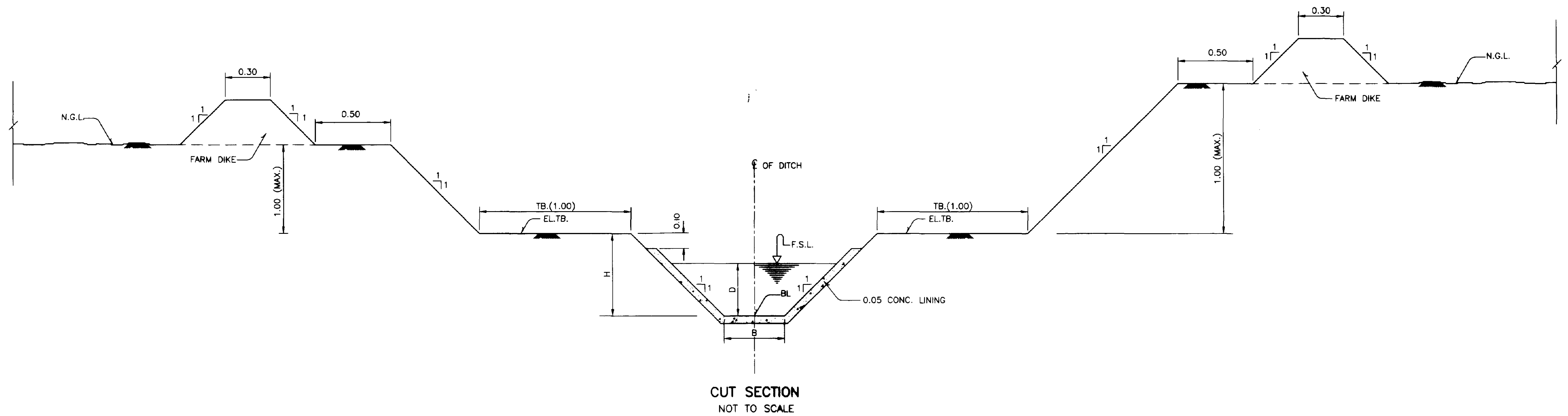
NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG.NO.165500,165501
2. ALL DIMENSION AND ELEVATIONS (M.S.L.) ARE IN METER UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD
4. FOR WIDTH OF "TB." SHOWN IN LONGITUDINAL PROFILE

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL EARTH DITCH

SECTIONS AND TABLE

							DESIGNED	<i>Arong Nong Nong</i>	SUBMITTED	<i>N. Wongsansuk</i>	CS.
							DRAWN	<i>Arong Nong Nong</i>	REVIEWED	<i>B. G. Tsai</i>	DDD.
							TRACED	<i>PEEWAT SATTAYASIRAKORN</i>	RECOMMENDED	<i>Sawadee</i>	Dir. ODA
							CHECKED	<i>N. wongsansuk</i>	APPROVED	<i>Sawadee for.</i>	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH			5.11.42 DATE	165502



DIMENSION OF DITCH

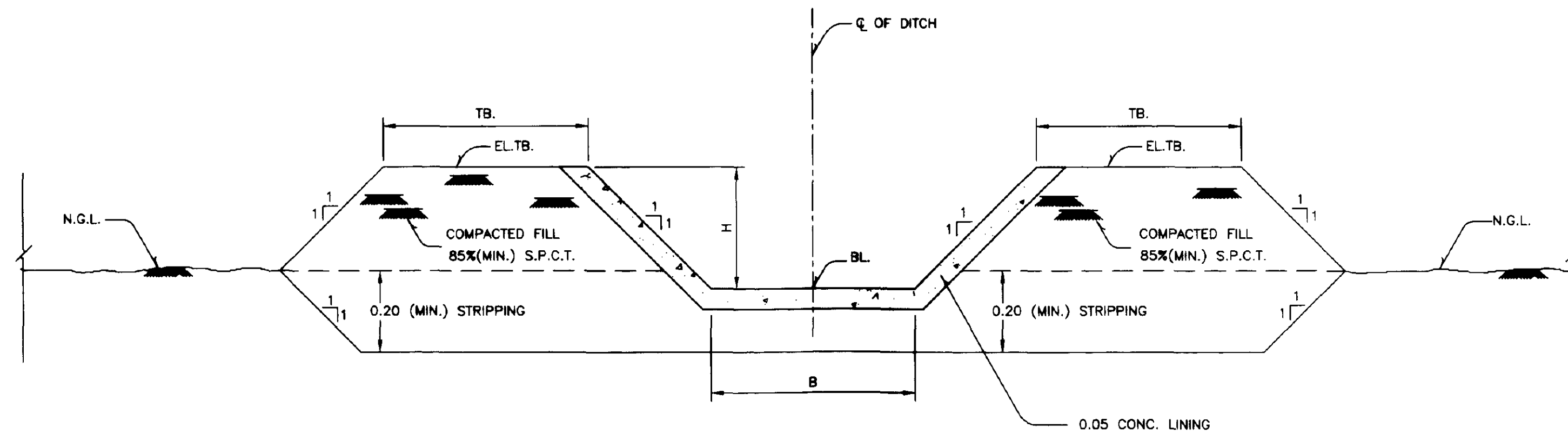
SLOPE	TYPE "L1"								TYPE "L2"								TYPE "L3"								TYPE "L4"					
	Q=0.030 (cms.)		Q=0.060 (cms.)		Q=0.090 (cms.)		H (m.)	TB. (m.)	Q=0.060 (cms.)		Q=0.090 (cms.)		Q=0.120 (cms.)		H (m.)	TB. (m.)	Q=0.090 (cms.)		Q=0.120 (cms.)		H (m.)	TB. (m.)	Q=0.120 (cms.)		H (m.)	TB. (m.)				
	B (m.)	D (m.)	B (m.)	D (m.)	B (m.)	D (m.)			B (m.)	D (m.)	B (m.)	D (m.)	B (m.)	D (m.)			B (m.)	D (m.)	B (m.)	D (m.)			B (m.)	D (m.)						
	1:4,000	0.20	0.26	-	-	-	-	0.50	0.50 - 2.30	0.30	0.32	-	-	-	-	0.55	0.50 - 2.10	0.40	0.36	-	-	0.55	0.50 - 2.00	0.40	0.42	0.60	0.50 - 1.90			
1:3,500	0.20	0.25	-	-	-	-	0.50	0.30		0.31	-	-	-	-	0.55	0.40		0.35	-	-	0.55	0.40		0.40	0.60					
1:3,000	0.20	0.24	-	-	-	-	0.50	0.30		0.30	-	-	-	-	0.55	0.40		0.33	-	-	0.55	0.40		0.39	0.60					
1:2,500	0.20	0.23	-	-	-	-	0.50	0.30		0.29	-	-	-	-	0.55	0.40		0.32	-	-	0.55	0.40		0.37	0.60					
1:2,000	0.20	0.22	-	-	-	-	0.50	0.30		0.27	0.30	0.33	-	-	0.55	0.40		0.30	0.40	0.35	0.55	-		-	-					
1:1,500	0.20	0.21	0.20	0.29	-	-	0.50	0.30		0.26	0.30	0.31	-	-	0.55	0.40		0.28	0.40	0.32	0.55	-		-	-					
1:1,000	0.20	0.19	0.20	0.26	-	-	0.50	0.30		0.23	0.30	0.28	0.30	0.32	0.55	0.40		0.25	0.40	0.29	0.55	-		-	-					
1:500	0.20	0.16	0.20	0.22	0.20	0.27	0.50	0.30		0.19	0.30	0.23	0.30	0.27	0.55	0.40		0.21	0.40	0.24	0.55	-		-	-					

NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG.NO.165500,165501
2. ALL DIMENSION AND ELEVATIONS (M.S.L.) ARE IN METER UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD
4. FOR WIDTH OF "TB." SHOWN IN LONGITUDINAL PROFILE

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL CONCRETE LINING DITCH
SECTIONS AND TABLE

DESIGNED	<i>Am. N. S. S.</i>	SUBMITTED	<i>N. N. S.</i>	CS.
DRAWN	<i>Am. N. S. S.</i>	REVIEWED	<i>B. O. S.</i>	DDD.
TRACED	<i>Am. N. S. S.</i>	RECOMMENDED	<i>S. S.</i>	Dir. OEDA
CHECKED	<i>N. N. S.</i>	APPROVED	<i>S. S.</i>	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOM. APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE 5.1.142				165503
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				DATE



SECTION
NOT TO SCALE

TABLE

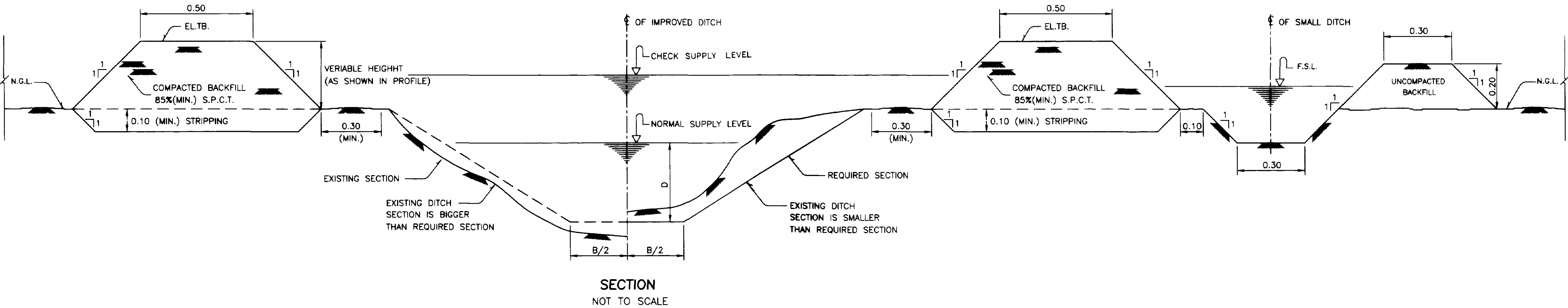
TYPE	B (m)	H (m)	SLOPE				REMARKS
			Q=0.030cms	Q=0.060cms	Q=0.090cms	Q=0.120cms	
SL1	0.20	0.30	1:10-1:400	1:10-1:340	1:10-1:150	1:10-1:85	
SL2	0.30	0.30	-	1:345-1:400	1:155-1:270	1:90-1:150	
SL3	0.40	0.30	-	-	1:275-1:400	1:155-1:240	
SL4	0.50	0.30	-	-	-	1:245-1:350	

NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG.NO.165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METER UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL STEEP SLOPE DITCH
SECTION AND TABLE

							DESIGNED	<i>Issued, Dehassett</i>	SUBMITTED	<i>Sutthi</i>	CS.
							DRAWN	<i>Mysahil &</i>	REVIEWED	<i>B. O. 11 m.</i>	DDD.
							TRACED	<i>Kallaya Jiraporn</i>	RECOMMENDED	<i>Savade</i>	Dir. OEDA.
							CHECKED	<i>Sutthi</i>	APPROVED	<i>Savade</i>	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH			DATE 165504	

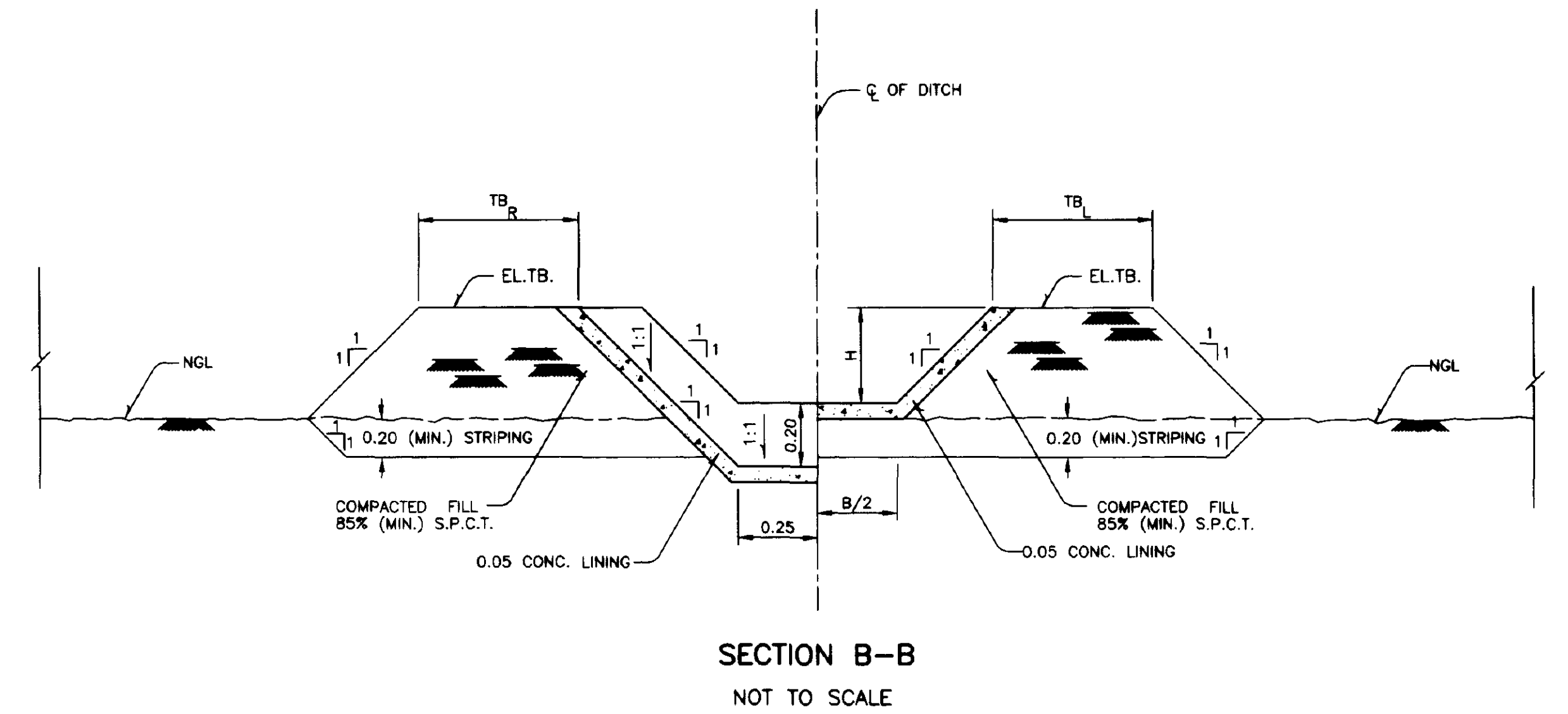
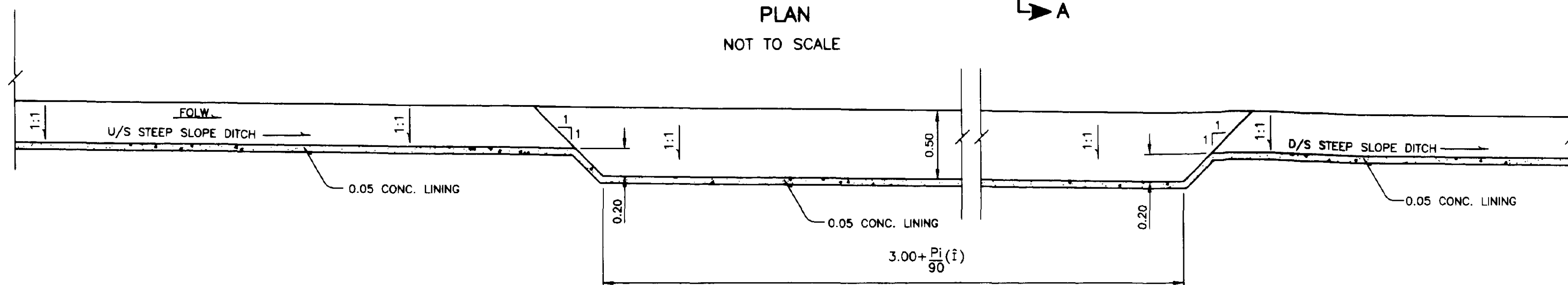
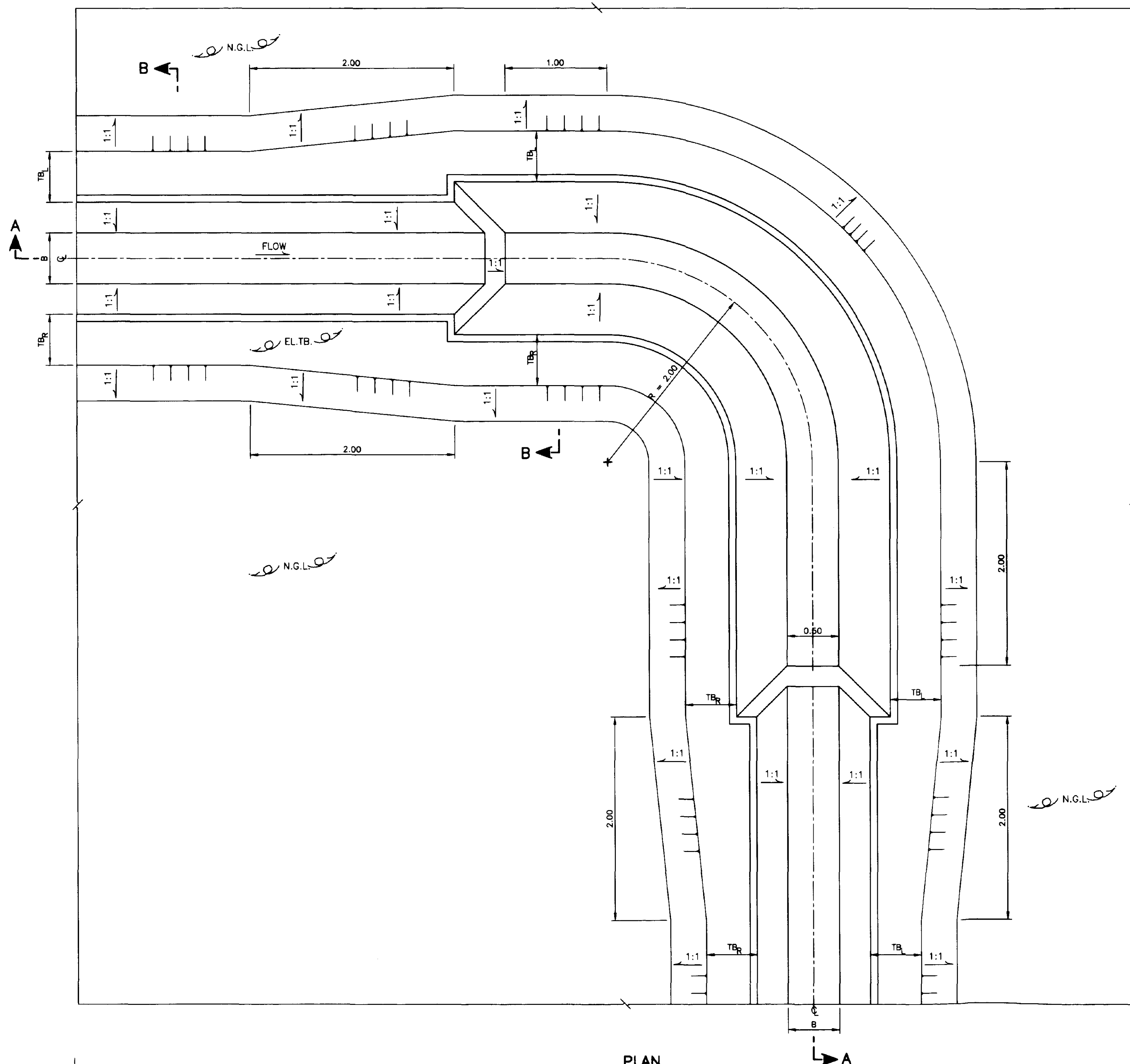


NOTES

1. ALL DIMENSIONS ARE IN METER
2. B.D AND TB. ELEVATION ARE SHOWN IN PROFILES
3. REQUIRED SECTION SHOULD BE DONE WHEN
EXISTING SECTION IS NOT BIG ENOUGH
4. SMALL DITCH SHALL BE CONSTRUCTED AS SPECIFIED
ON DESIGN PLAN BY FARM OWNERSHIP
5. SMALL DITCH SHALL BE INCORPORATED INTO BOTH
SIDES OF IMPROVED DITCH EMBANKMENT

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL EXISTING DITCH
IMPROVEMENT SECTION
SECTION

							DESIGNED	<i>N. Wongsamut</i>	SUBMITTED	<i>N. Wongsamut</i>	CS.
							DRAWN	<i>N. Wongsamut</i>	REVIEWED	<i>B. S. S. S.</i>	DDD.
							TRACED	<i>N. Wongsamut</i>	RECOMMENDED	<i>S. Wongsamut</i>	Dir. OEDA
							CHECKED	<i>N. Wongsamut</i>	APPROVED	<i>S. Wongsamut</i>	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH			5/19/42 DATE	165505

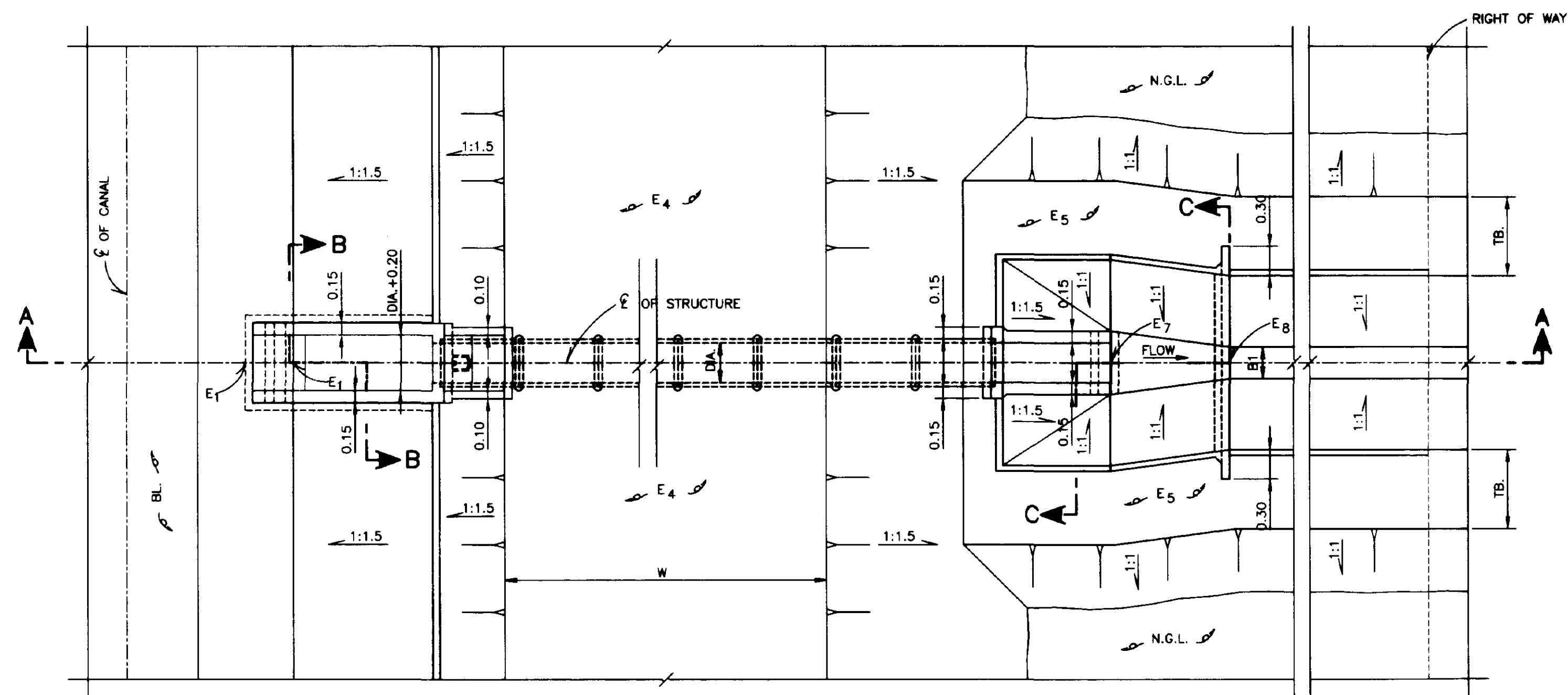


NOTES

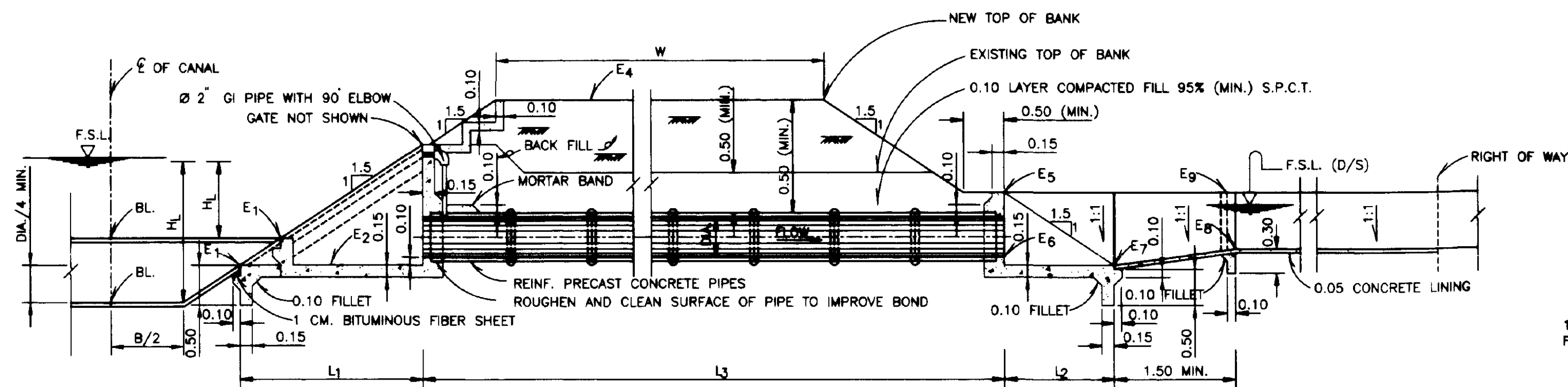
1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG.NO. 165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METER UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD
4. USED IN CASE OF $\angle \geq 90^\circ$ ($\angle$ = ANGLE OF DITCH ALIGNMENT DEFLECTION)

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL BEND FOR
STEEP SLOPE DITCH
PLAN AND SECTIONS

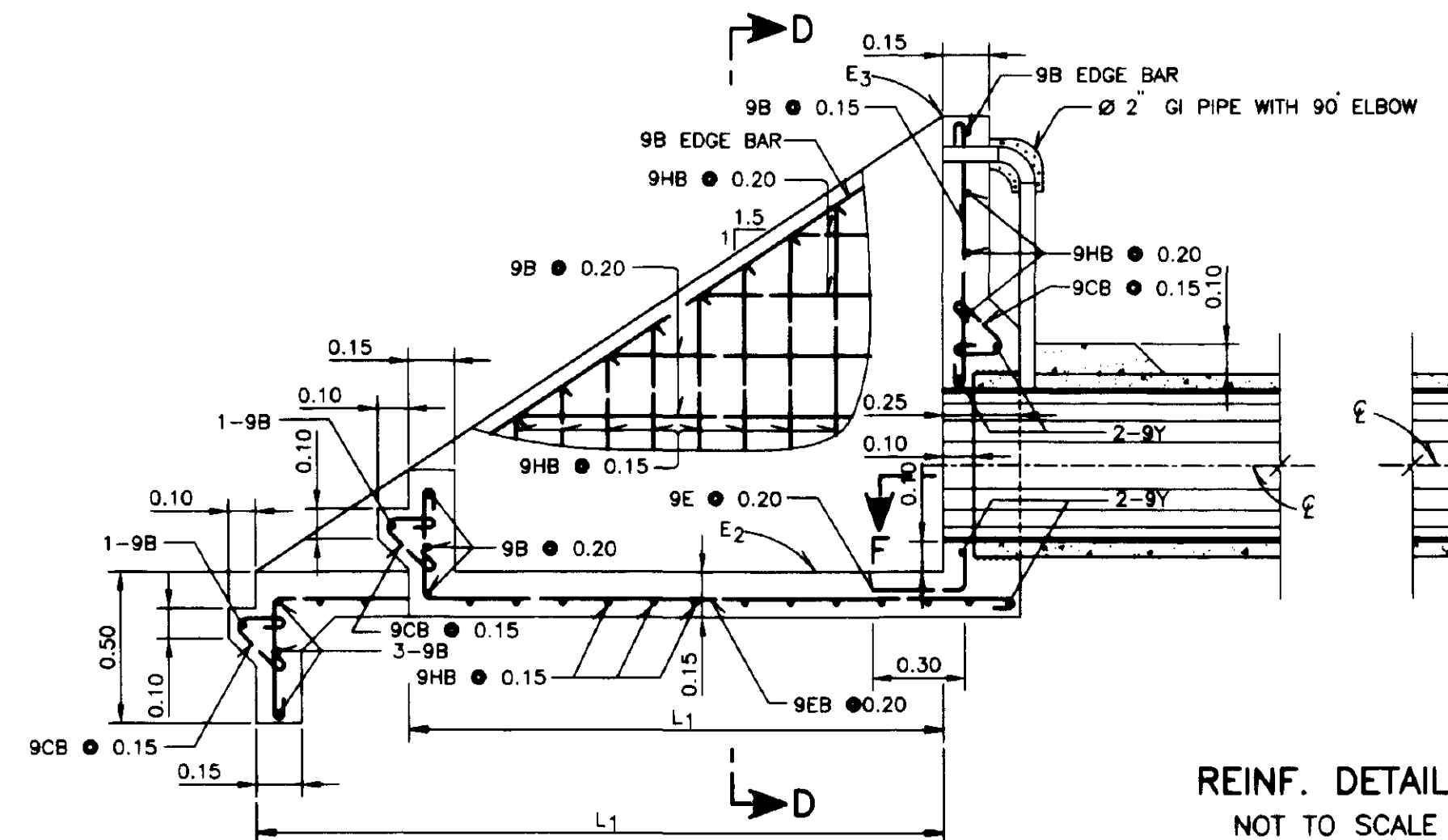
DESIGNED	SAVITRI D. D. D.	SUBMITTED	S. N. M. 42	CS.
DRAWN	SAVITRI D. D.	REVIEWED	P. O. S. A.	DDO.
TRACED	K. S. S.	RECOMMENDED	SAVITRI D. D.	Dir. OEDA.
CHECKED	S. N. M. 42	APPROVED	SAVITRI D. D.	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOM. APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE S. N. M. 42				165506
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				DATE



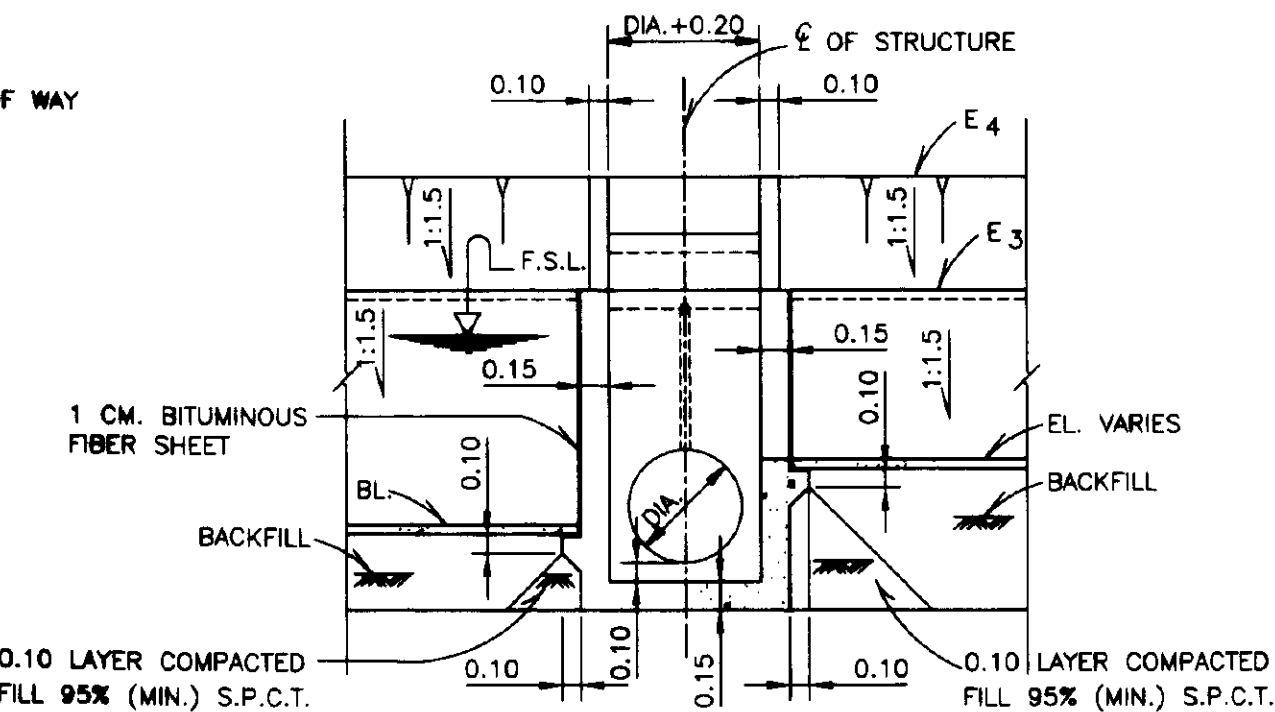
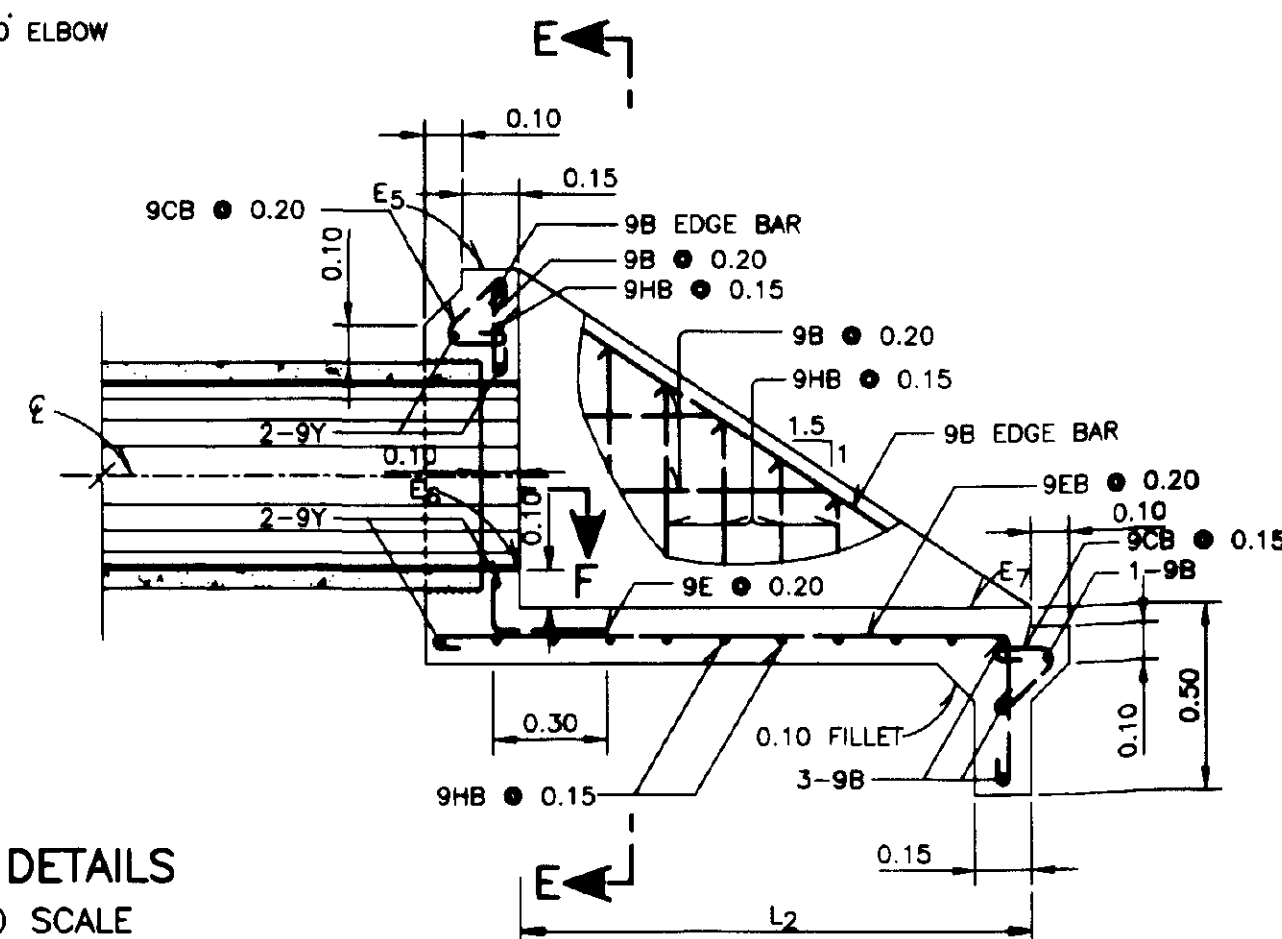
PLAN
NOT TO SCALE



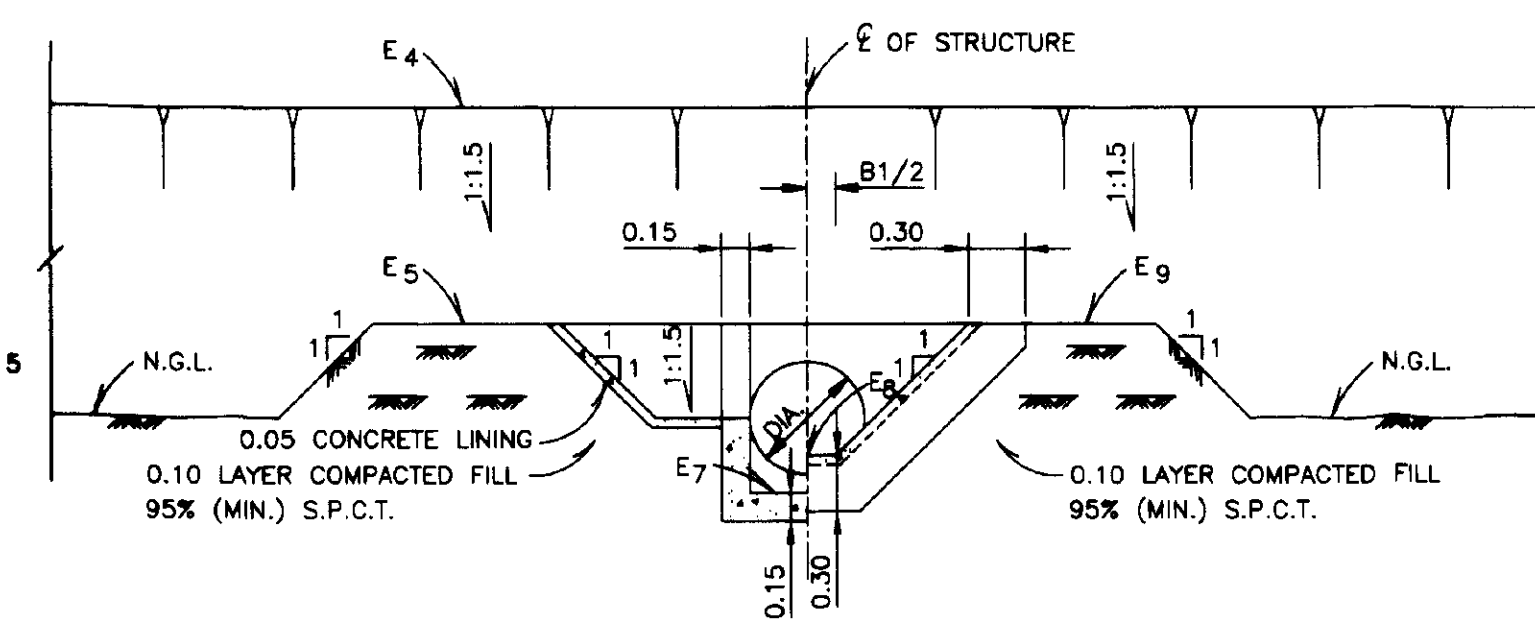
SECTION A-A
NOT TO SCALE



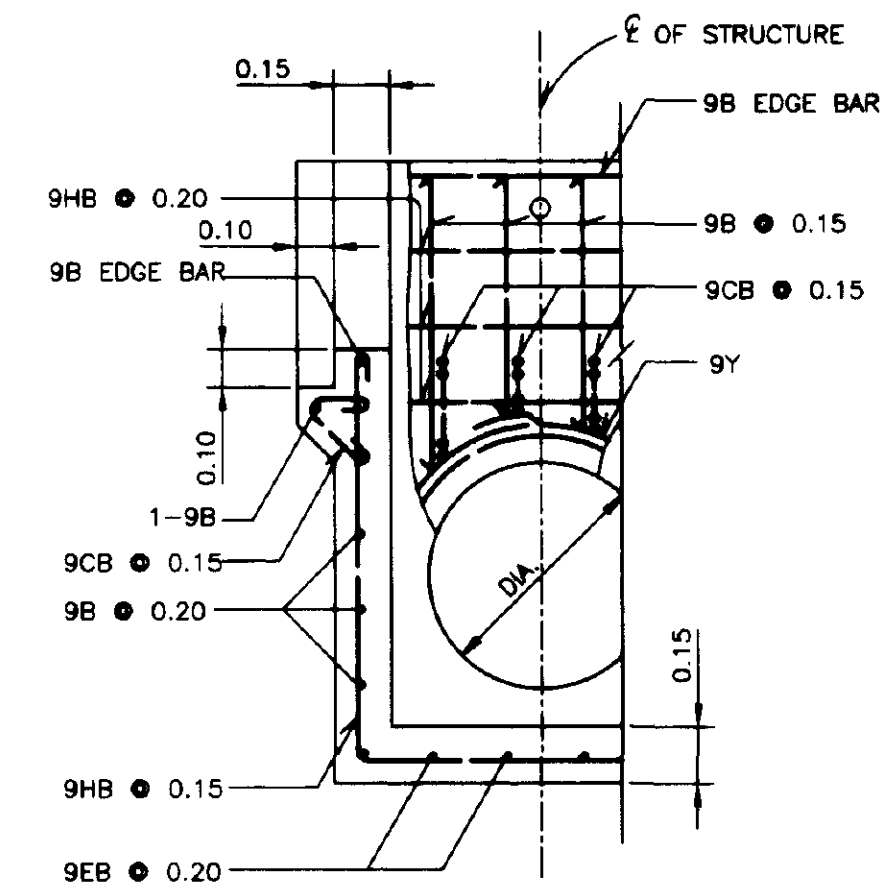
REINF. DETAILS
NOT TO SCALE



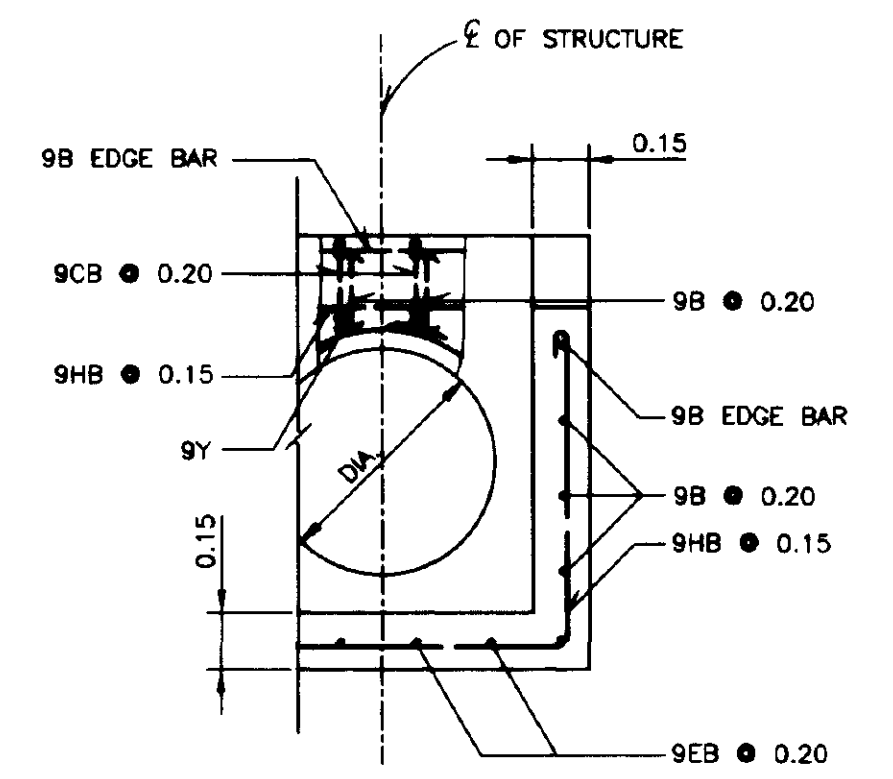
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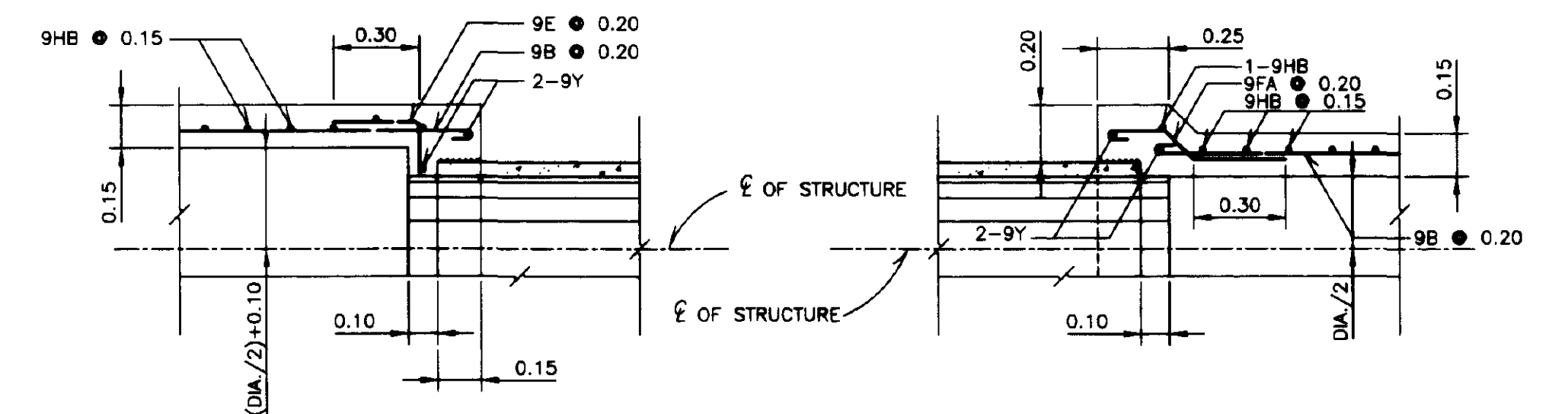
SECTION C-C
NOT TO SCALE



SECTION D-D
NOT TO SCALE



SECTION E-E
NOT TO SCALE



SECTION F-F
NOT TO SCALE

NOTES

- STRUCTURE TO BE PLACED ON UNDISTURBED OR THOROUGHLY COMPACTED EARTH
- COMPRESSIVE CONCRETE DESIGN STRENGTH SHOULD NOT BE LESS THAN 140 KG./CM.² AT 28 DAYS
- REINFORCEMENT DESIGN BASED ON AN ALLOWABLE TENSILE STRESS OF 1200 KG./CM.² AND PLAN BAR
- CHAMFER ALL EXPOSED CORNER 2 CM. UNLESS OTHERWISE SHOWN
- ALL DIMENSIONS ARE IN METERS EXCEPT REINFORCEMENT BAR DIAMETERS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

REFERENCE DRAWINGS

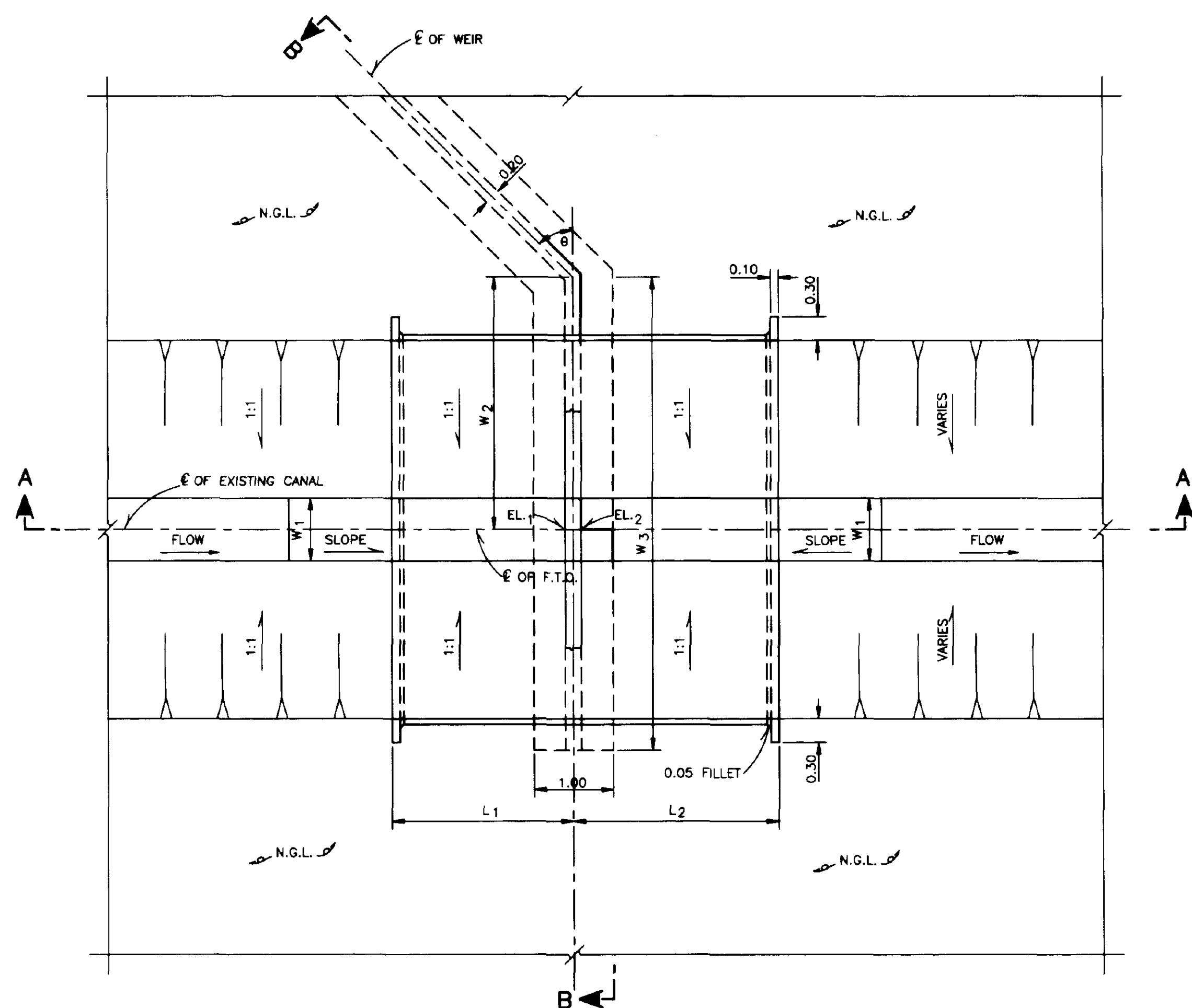
- REINFORCEMENT PRECAST CONCRETE PIPE JOINT AND PLACEMENT DWG. NO. 47075
- GATES FOR Ø 0.30 PIPE DWG. NO. 47076
- GATES FOR Ø 0.40 PIPE DWG. NO. 39388
- GATES FOR Ø 0.50 PIPE DWG. NO. 30814
- GATES HOIST DWG. NO. 30152, 33429

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL FARM TURNOUT STRUCTURE
FOR 0.30, 0.40, 0.50, 0.60 DIA. PIPE
PLAN, SECTION AND REINF. DETAILS

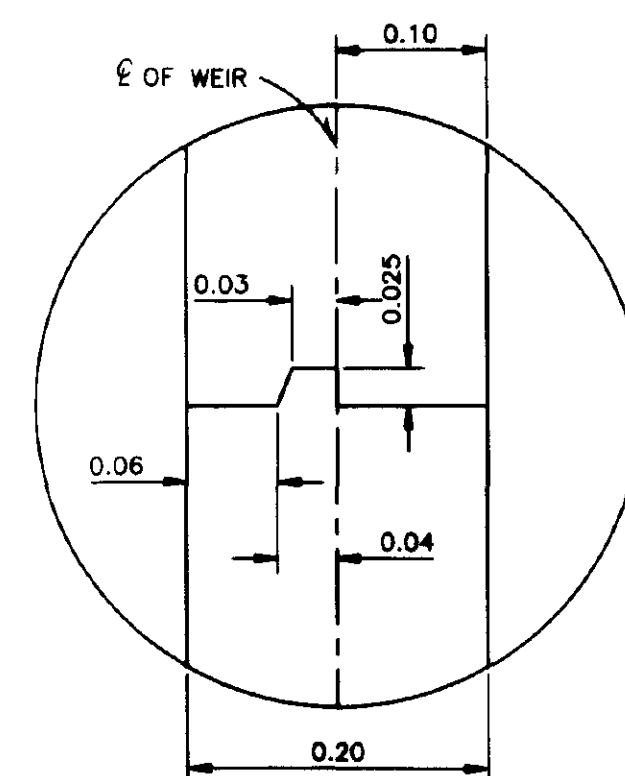
DESIGNED	Rev. N. W. S. S.	SUBMITTED	N. W. S. S.	CS.
DRAWN	Rev. N. W. S. S.	REVIEWED	B. O. V. S.	DDD.
TRACED	Rev. N. W. S. S.	RECOMMENDED	S. W. S. S.	Dir. OEDA
CHECKED	N. W. S. S.	APPROVED	S. W. S. S.	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM. APPROVED

OFFICE OF ENGINEERING DESIGN & ARCHITECTURE 5.11.42
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH DATE

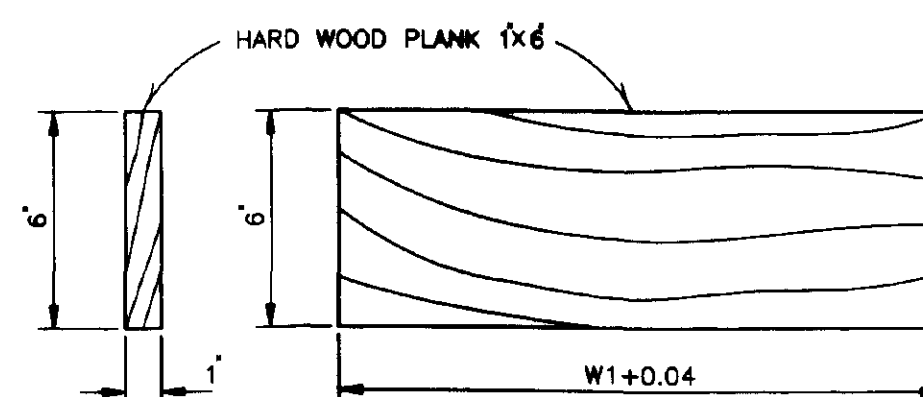
165507



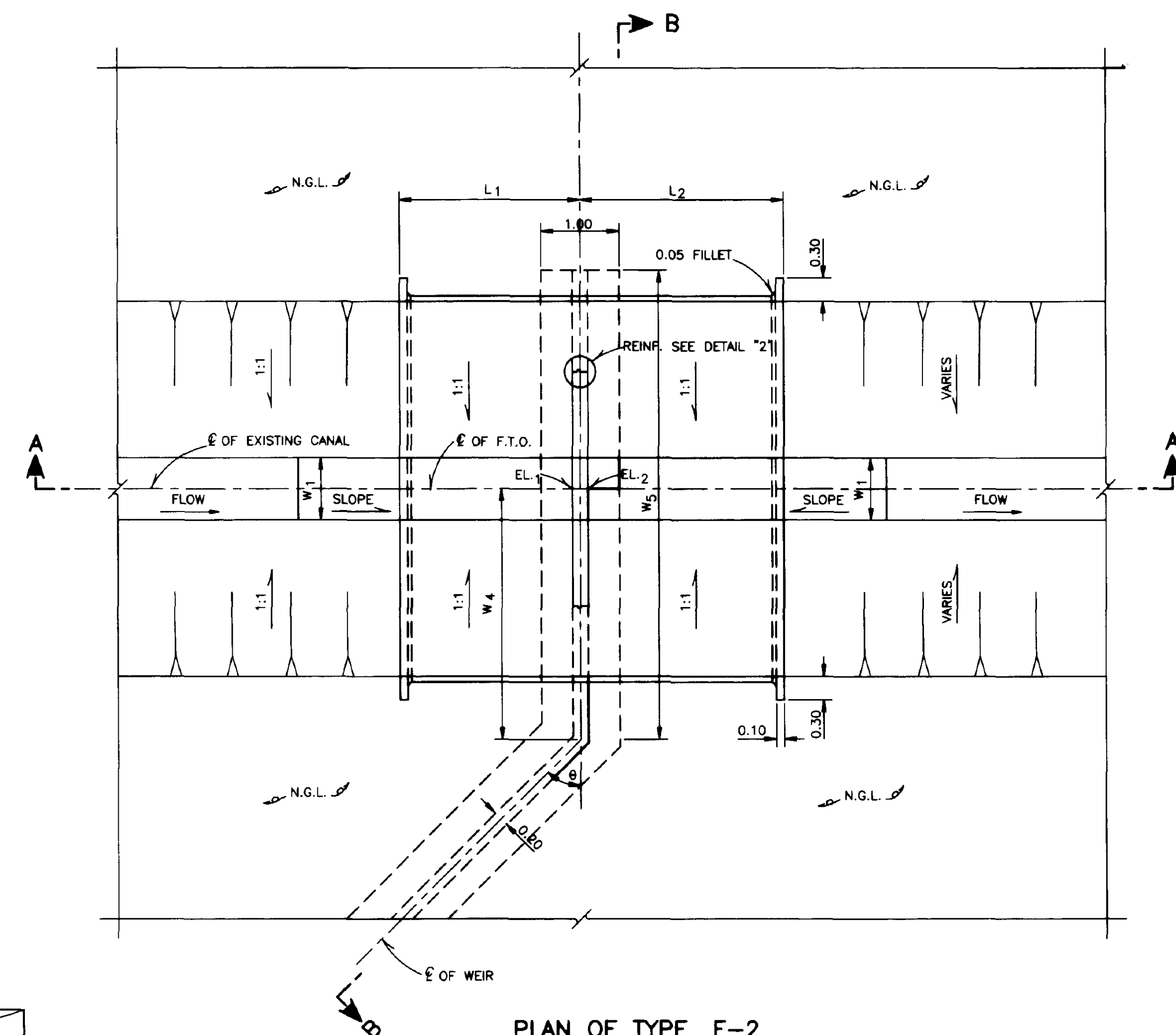
PLAN OF TYPE F-1
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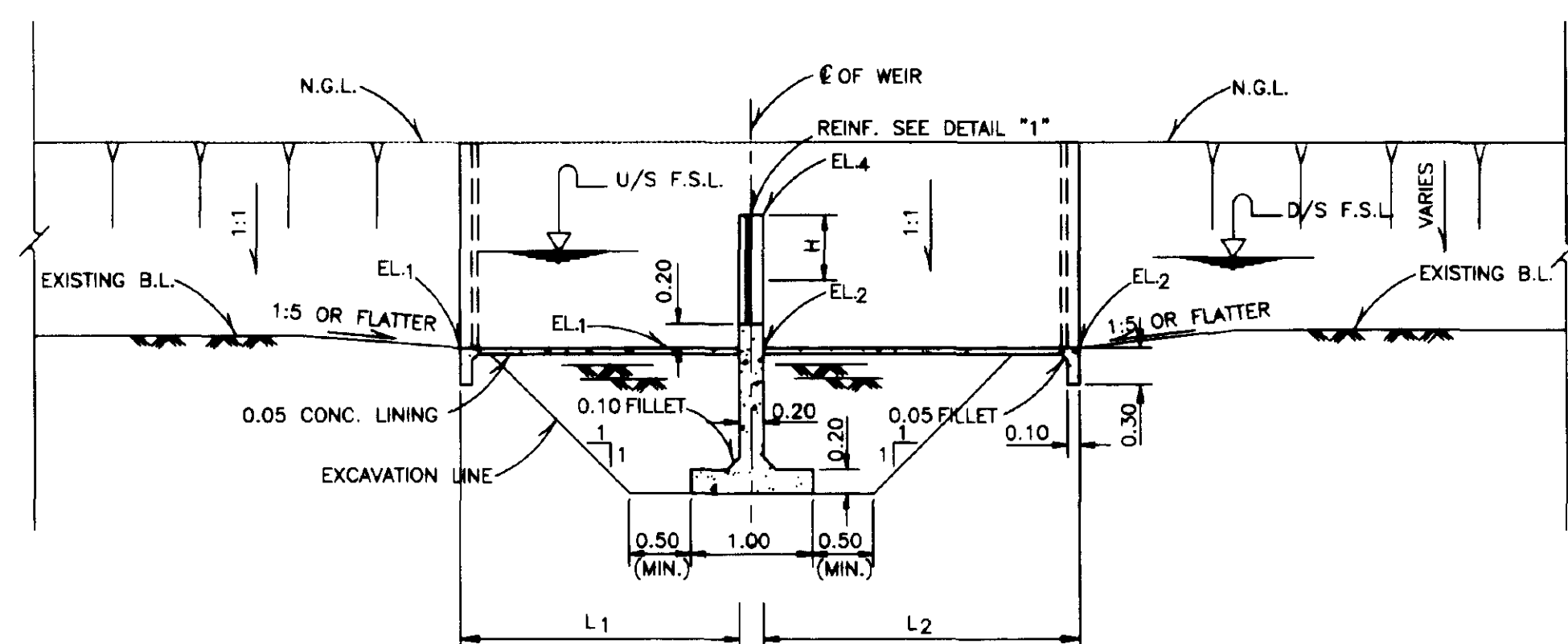
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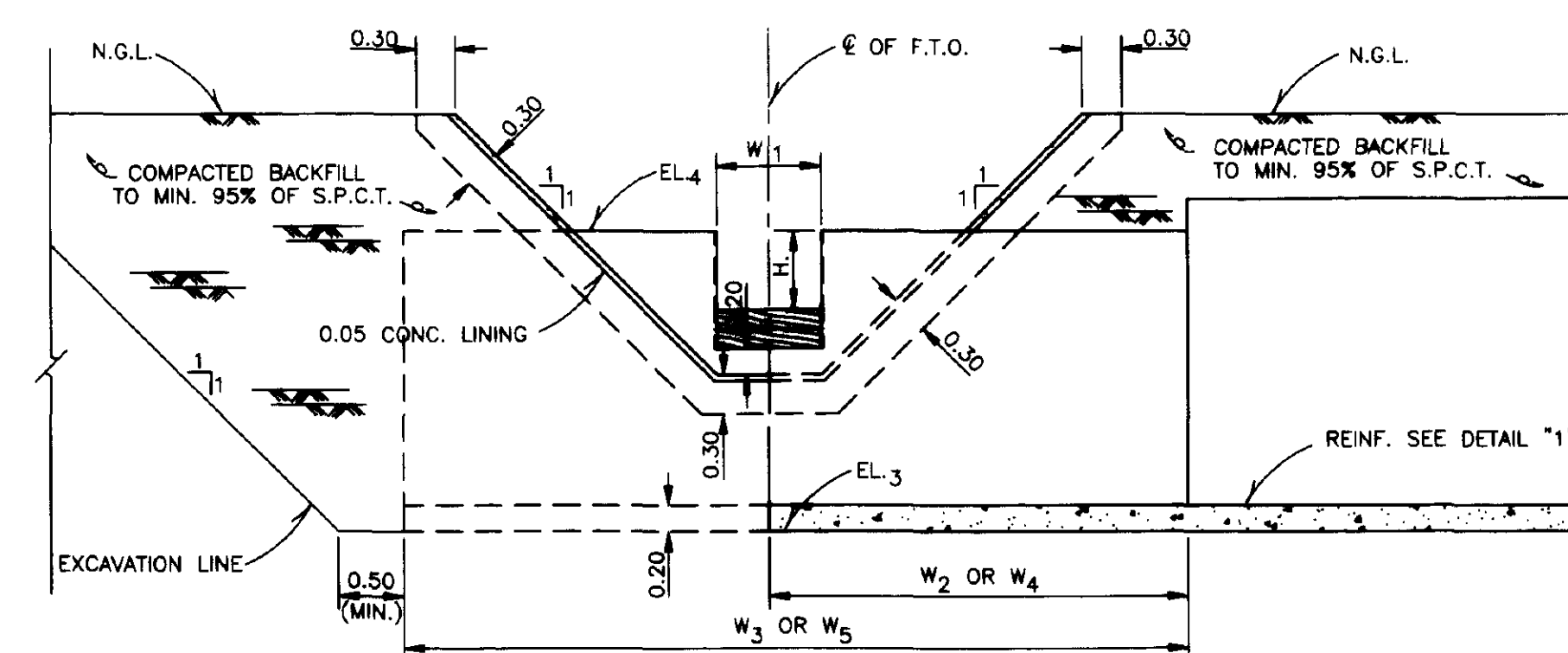
STOPLOG DETAIL
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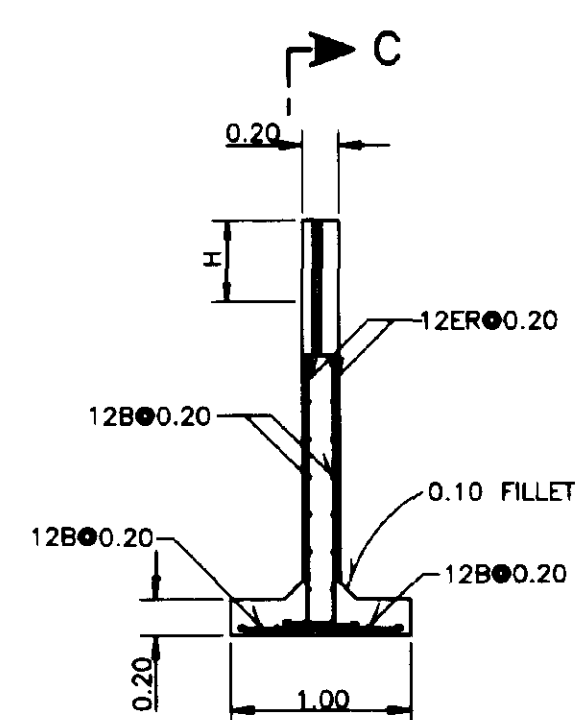
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NOT TO SCALE



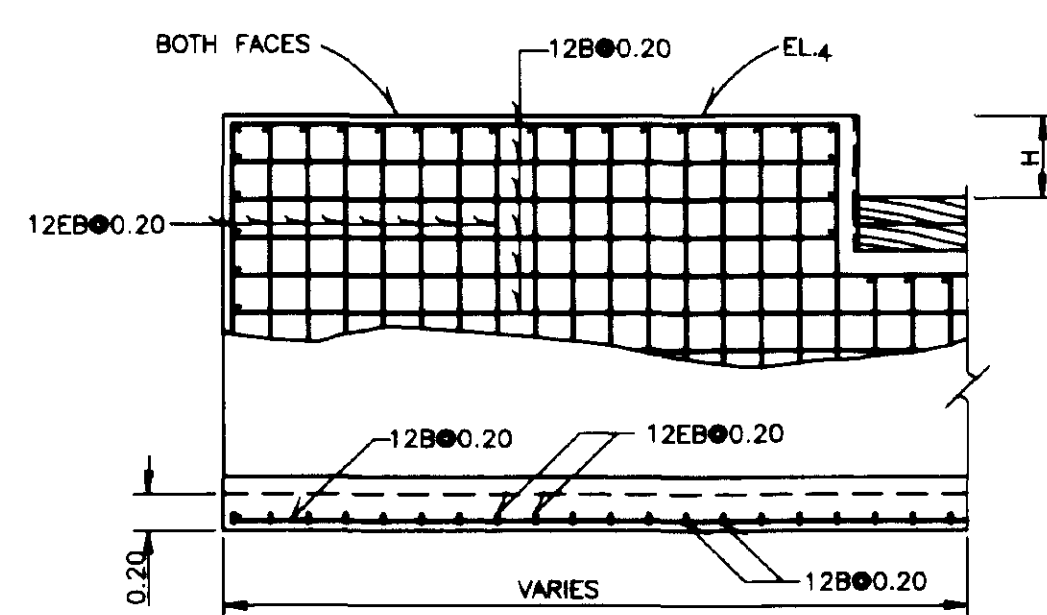
SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



DETAIL "1"
NOT TO SCALE



SECTION C-C
NOT TO SCALE

TABLE OF FIXED DIMENSIONS

STR. NO.	Q(MAX.) cms.	H m.	W ₁ m.	L ₁ m.	L ₂ m.
1	0.030	0.35	0.25	1.50	2.00
2	0.040	0.35	0.30	1.50	2.00
3	0.050	0.35	0.40	1.50	2.00
4	0.065	0.35	0.50	1.50	2.00
5	0.090	0.40	0.40	1.50	2.00
6	0.115	0.40	0.50	1.50	2.00
7	0.135	0.40	0.60	1.50	2.00
8	0.160	0.40	0.70	1.50	2.00
9	0.180	0.40	0.80	1.50	2.00
10	0.205	0.40	0.90	1.50	2.00
11	0.230	0.40	1.00	1.50	2.00
12	0.250	0.40	1.10	1.50	2.00

NOTES

- DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN THE FIELD

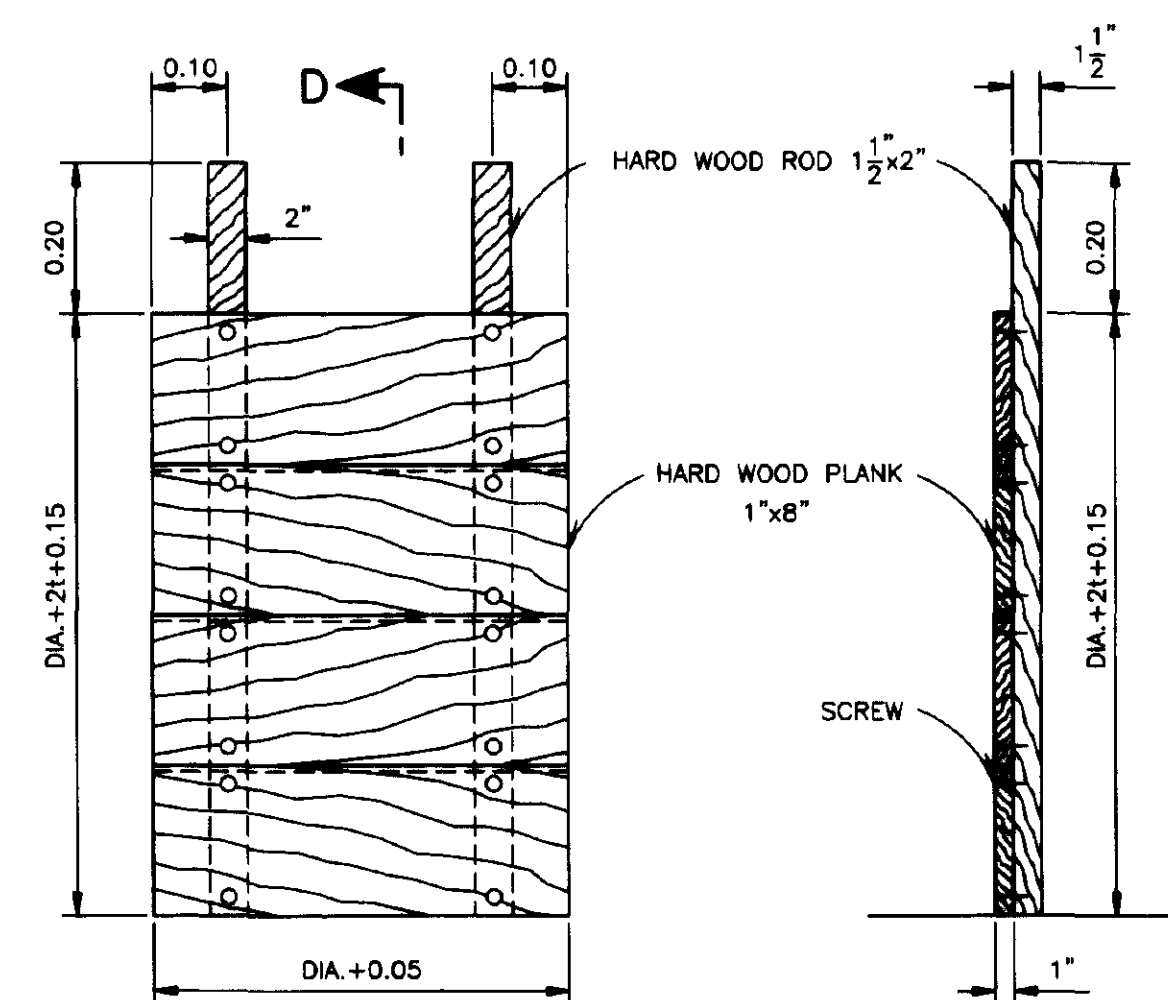
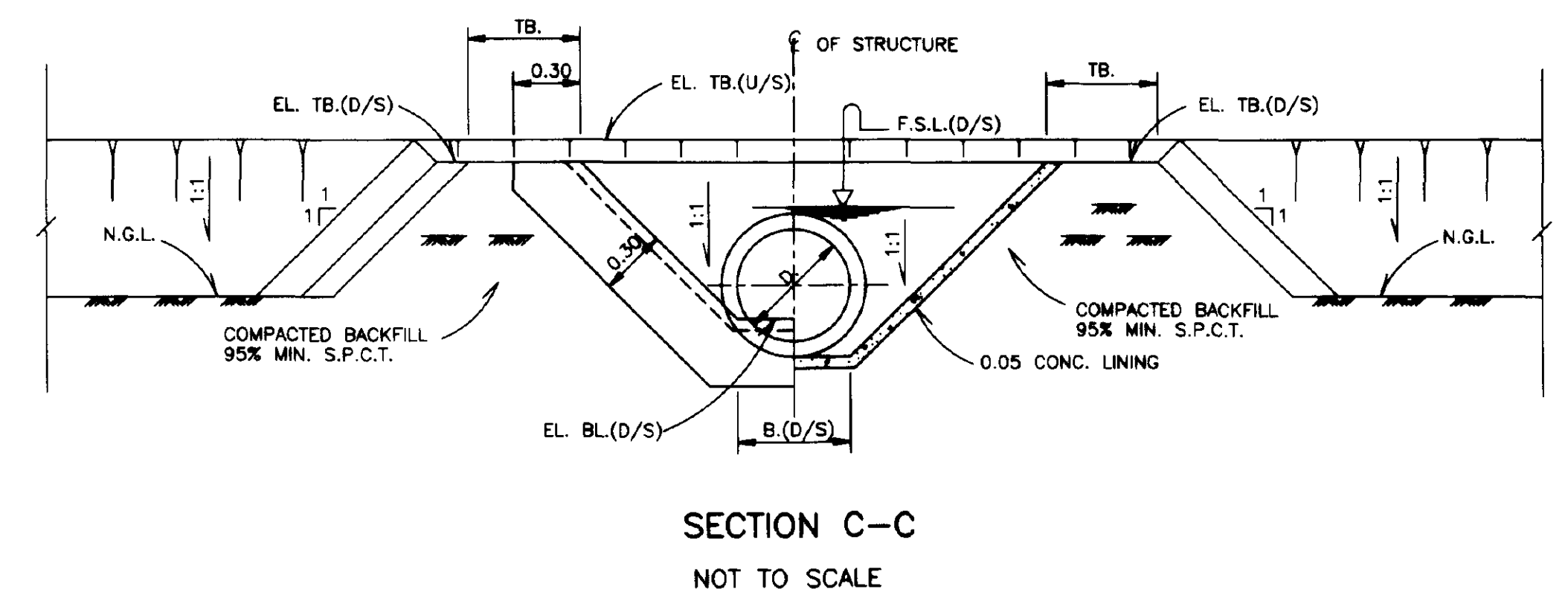
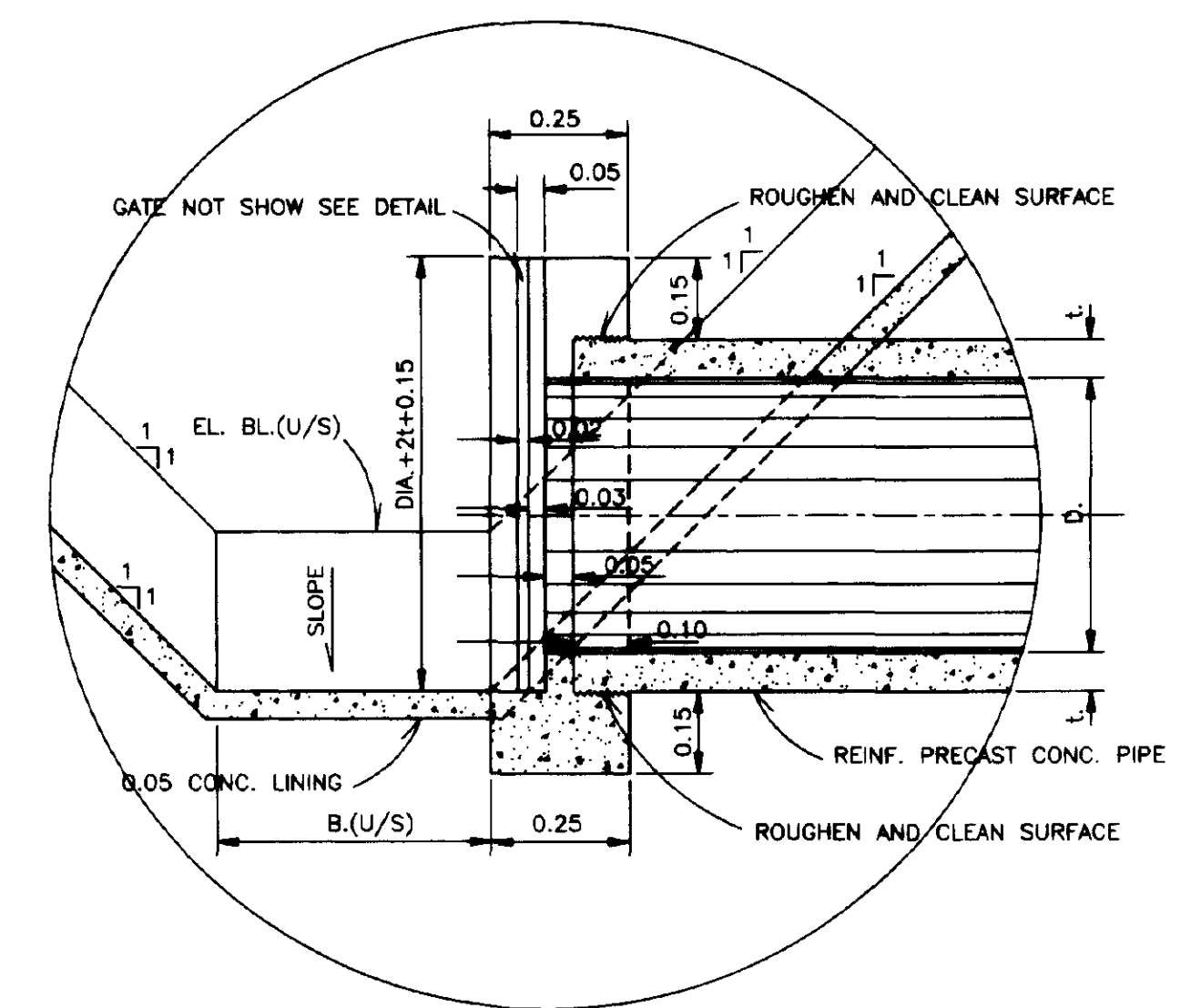
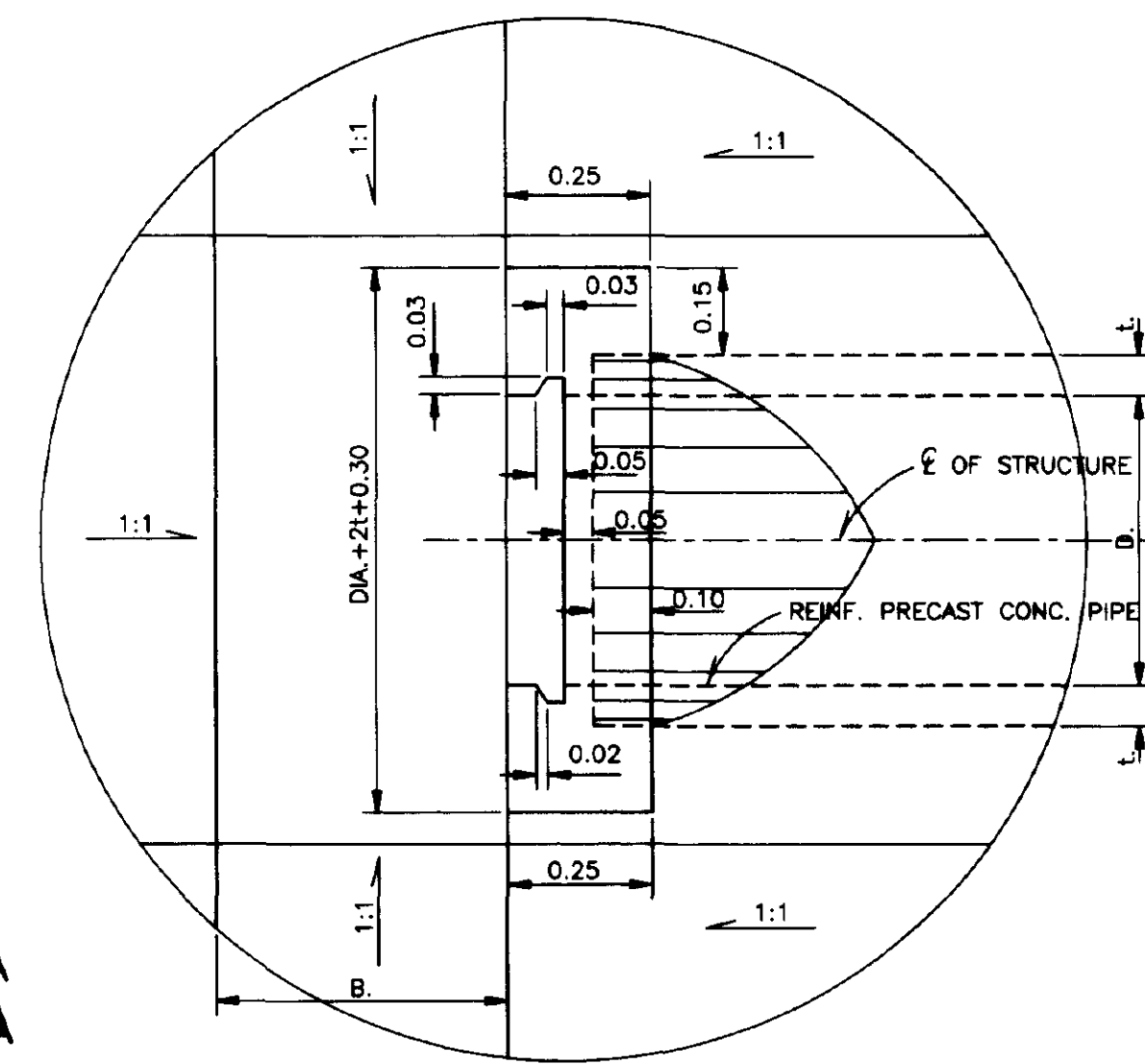
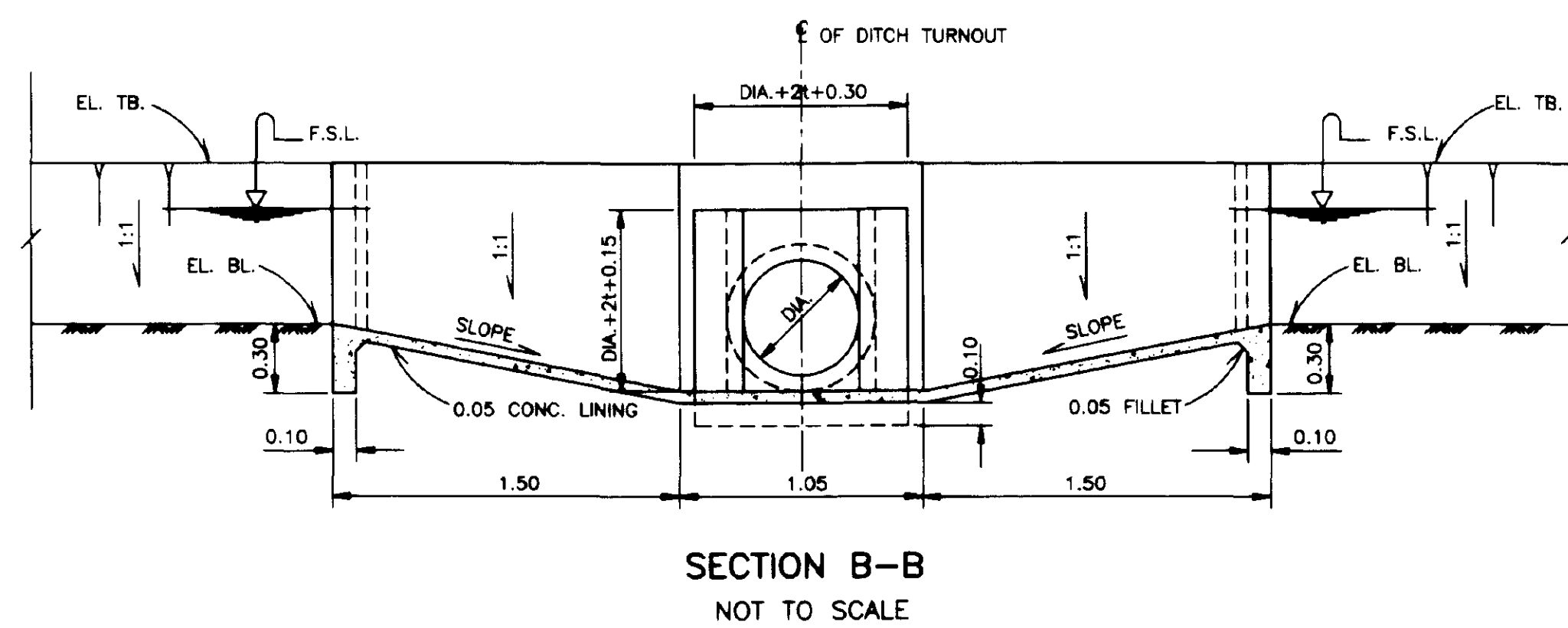
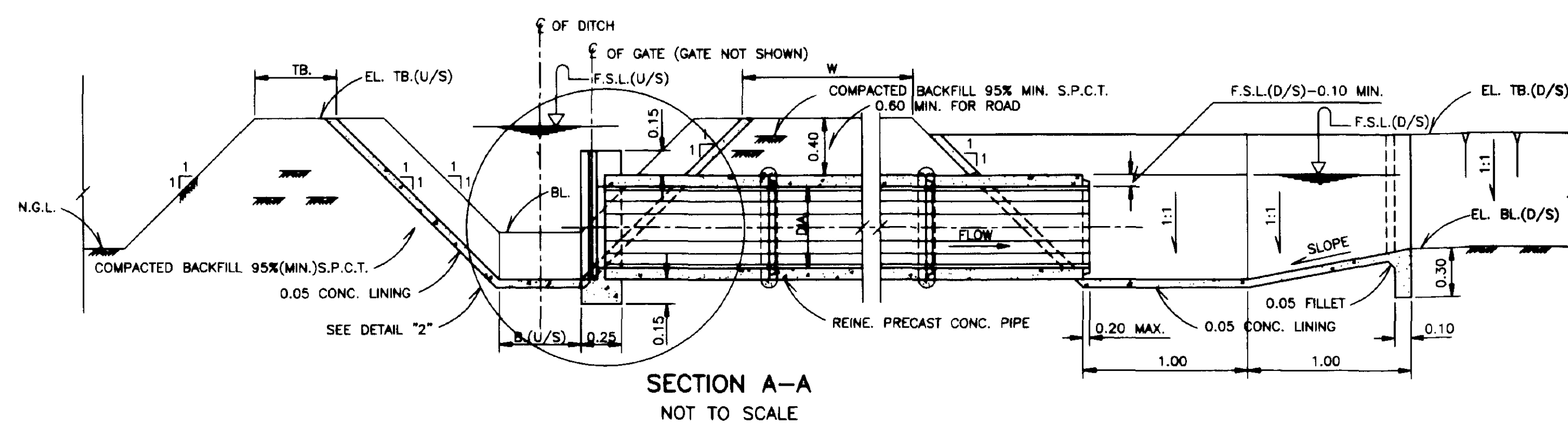
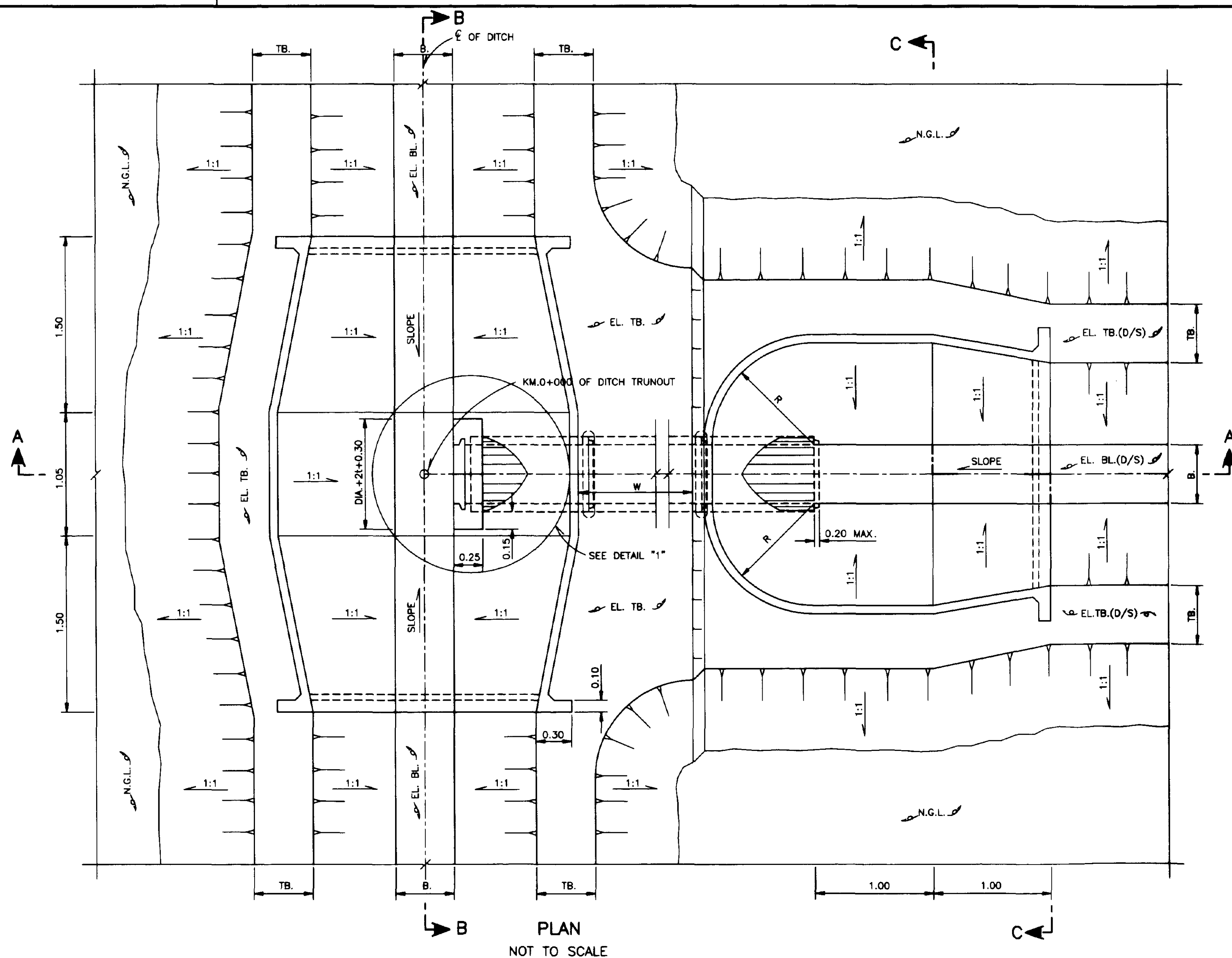
REFERENCE DRAWING

- LEGEND AND ABBREVIATION ———— DWG. NO. 165500
- GENERAL NOTES ———— DWG. NO. 165501

ROYAL IRRIGATION DEPARTMENT ON-FARM IRRIGATION SYSTEM TYPICAL FARM TURNOUT FOR EXISTING CANAL PLAN, SECTION AND DETAILS

DESIGNED	<i>Wichan Nganyan</i>	SUBMITTED	<i>N. Wongsanvitha</i>	CS.
DRAWN	<i>Wichan Nganyan</i>	REVIEWED	<i>P. O. 179a</i>	DDD.
TRACED	<i>Amruth Kongsathan</i>	RECOMMENDED	<i>Savadee</i>	Dir. OEDA
CHECKED	<i>N. Wongsanvitha</i>	APPROVED	<i>Savadee</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM. APPROVED

165508



SECTION D-D
NOT TO SCALE

NOTES

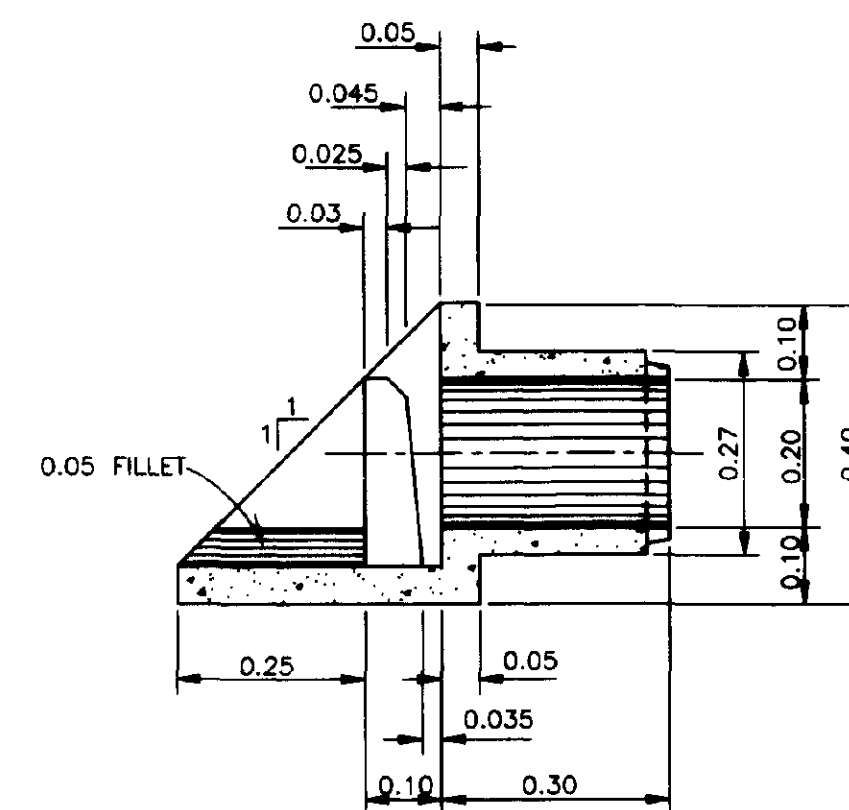
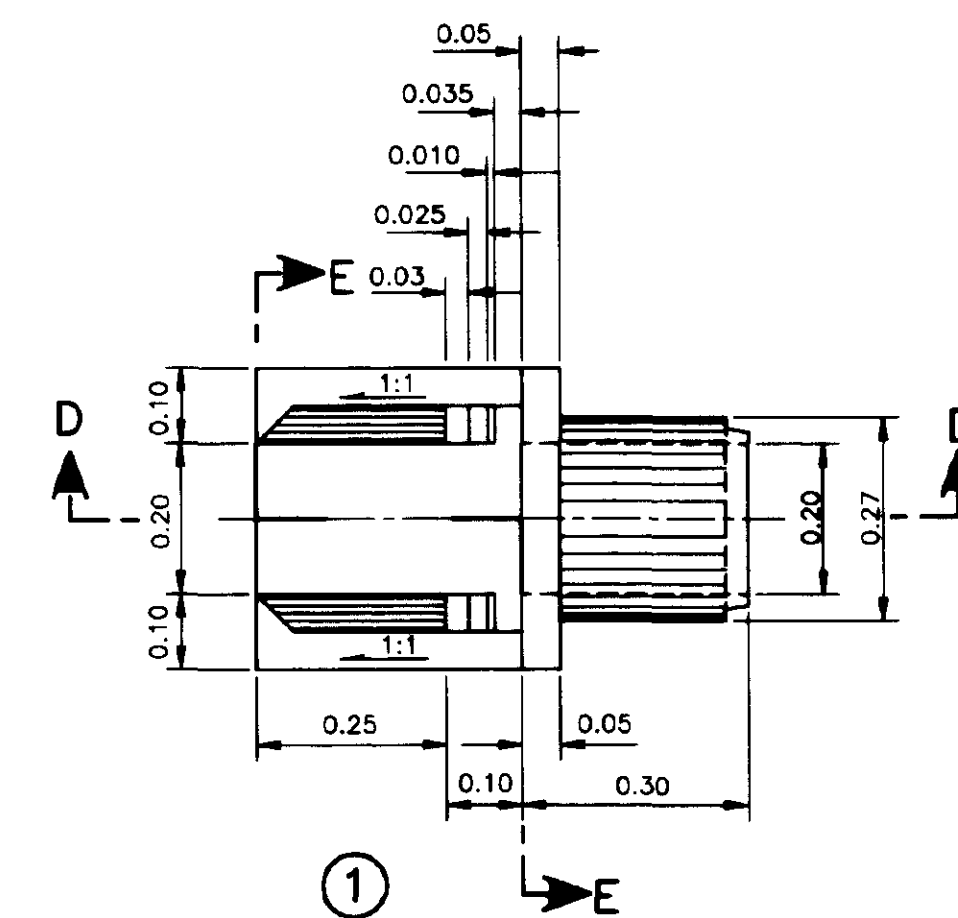
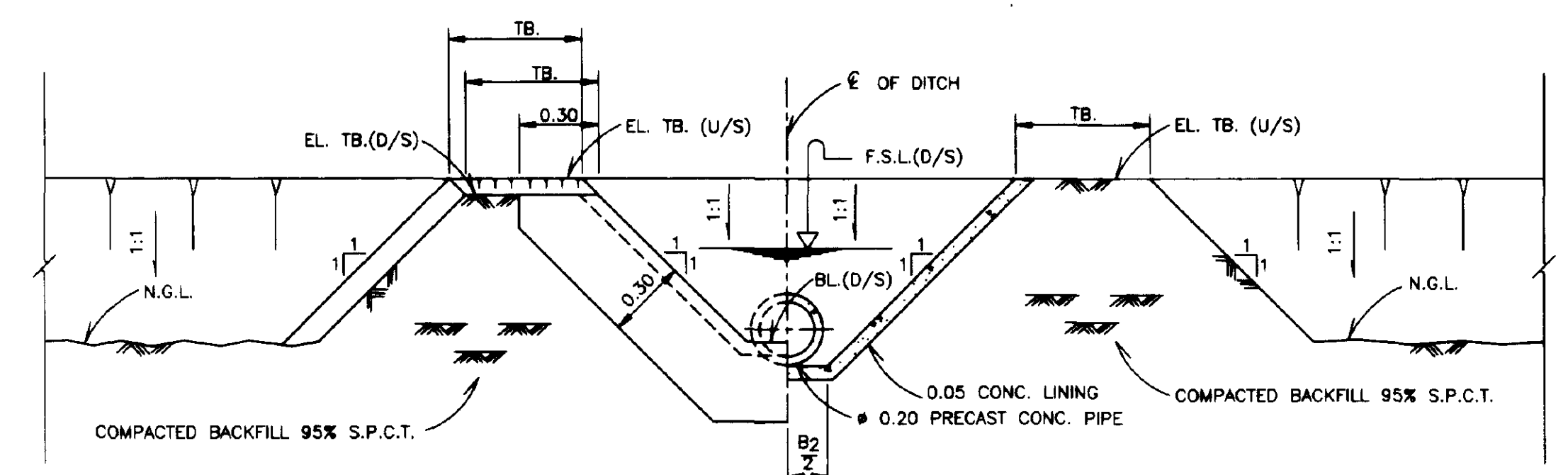
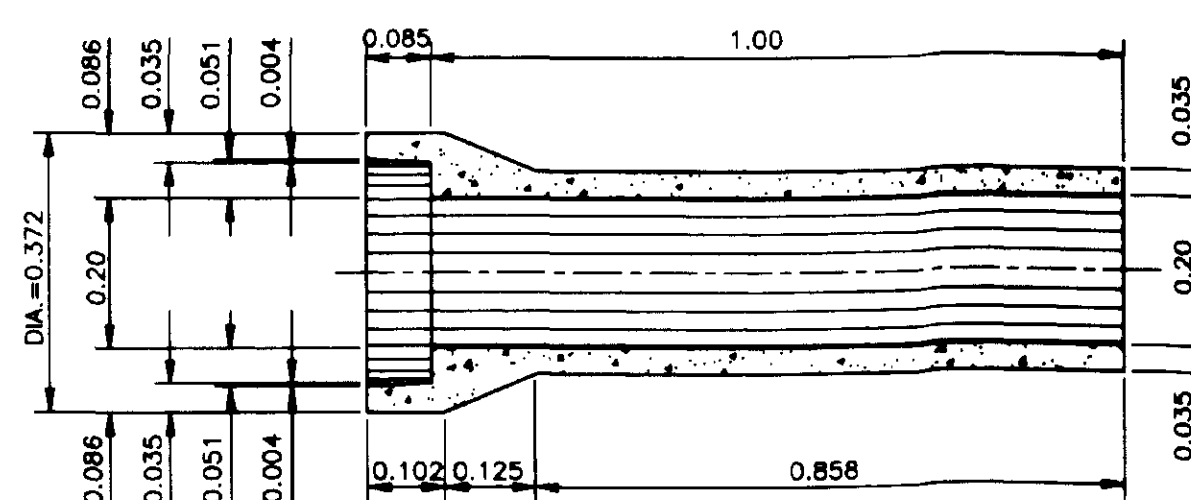
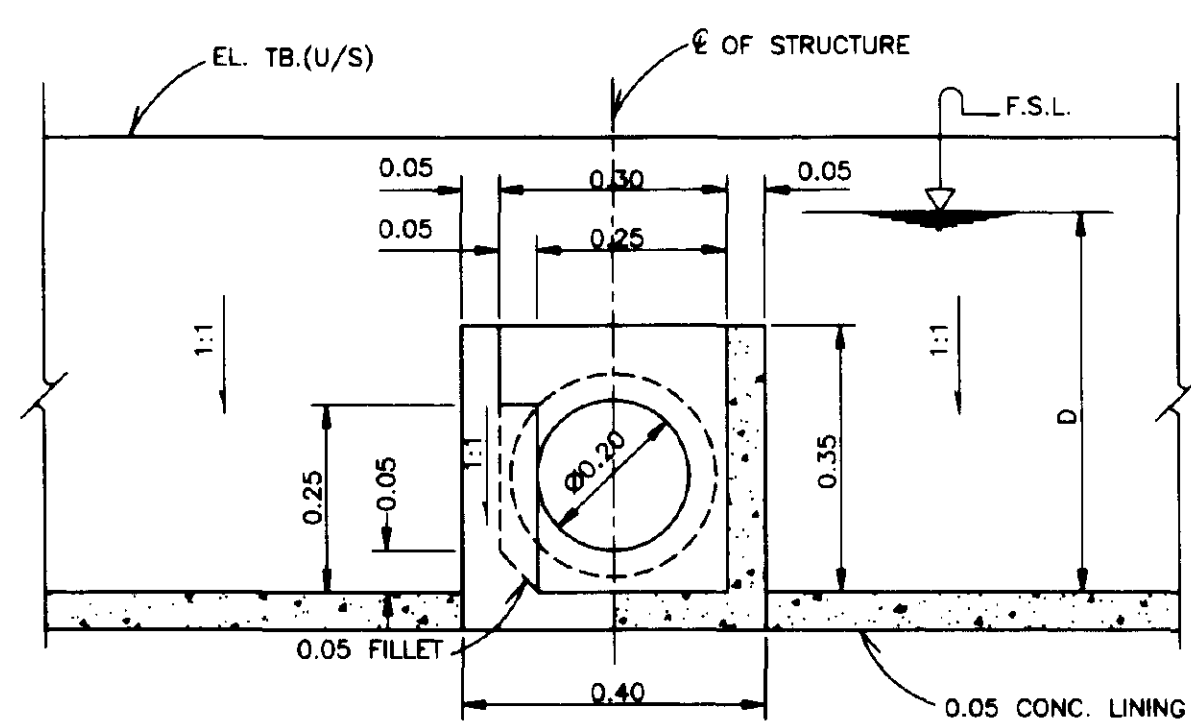
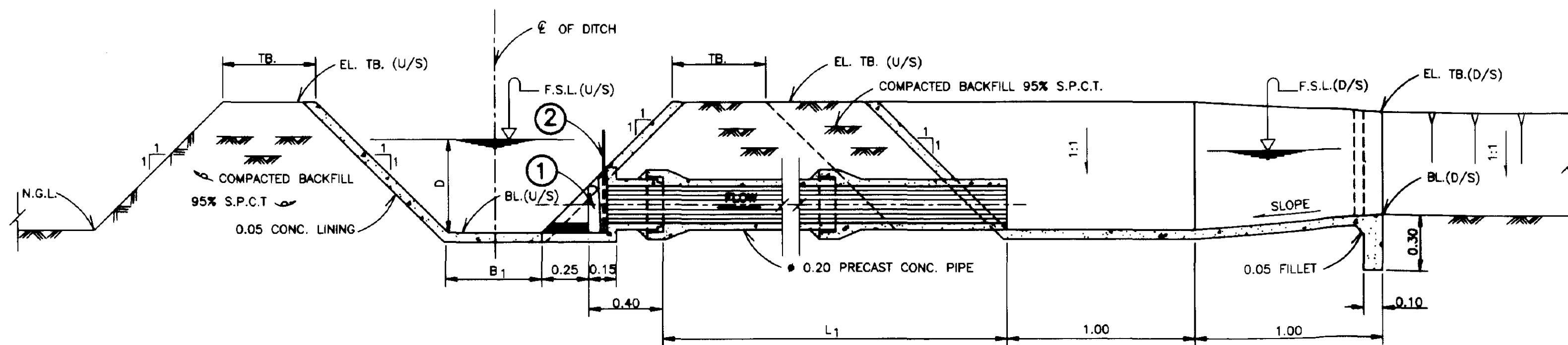
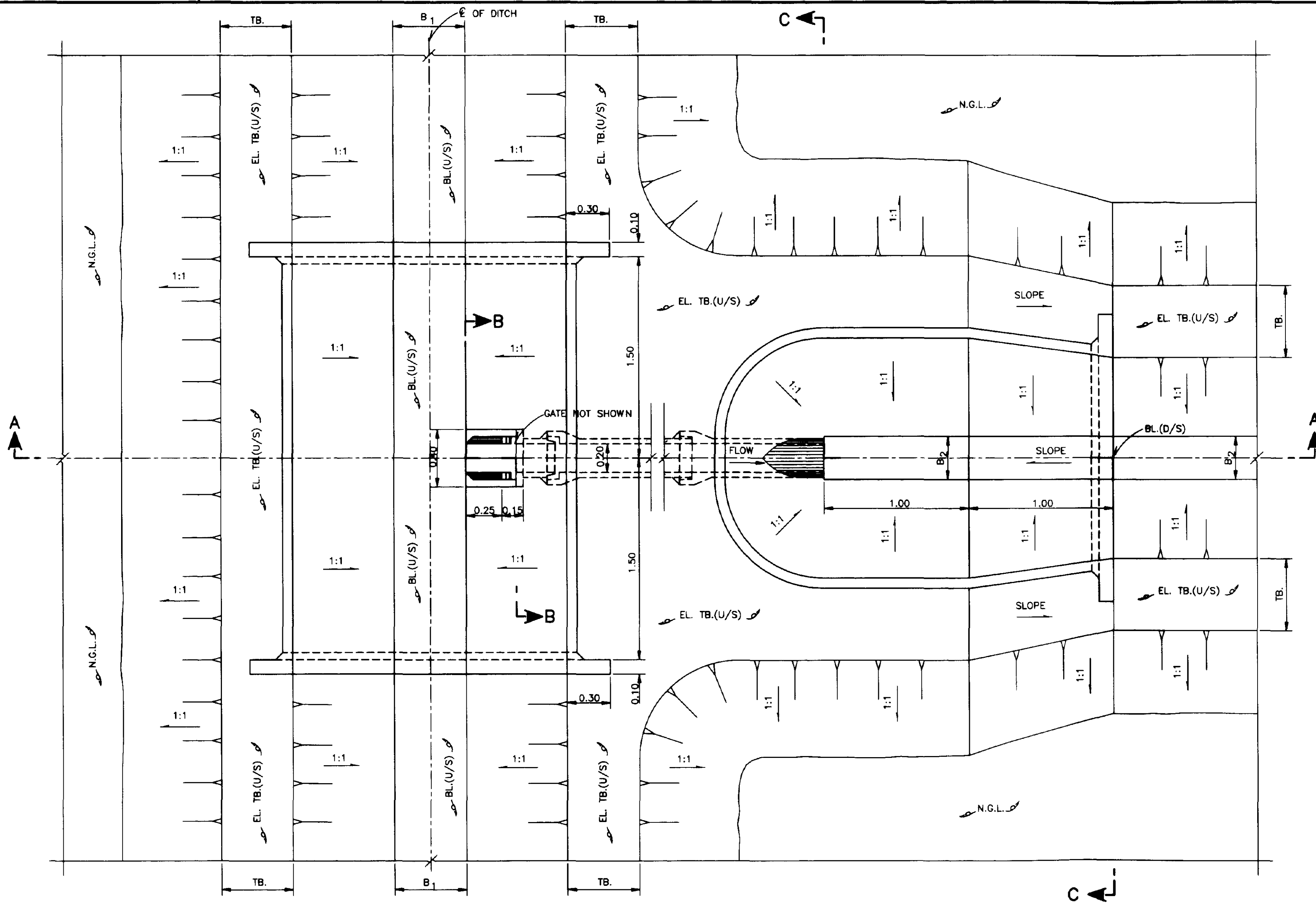
1. FOR GENERAL NOTES AND LEGEND REFER TODWG. NO.165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN.
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWINGS

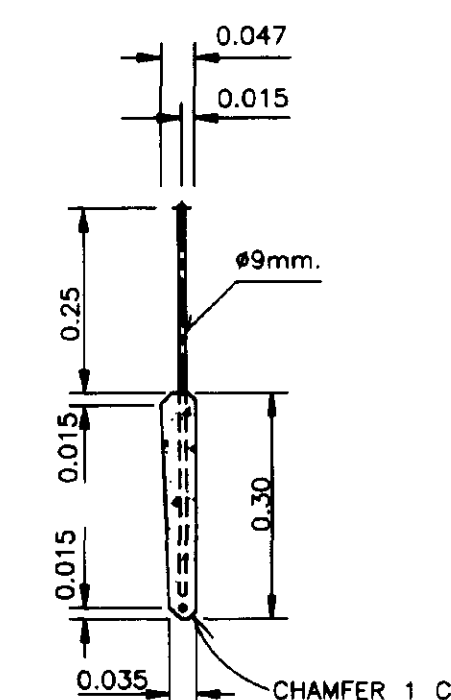
1. REINF. PRECAST CONCRETE PIPE.....DWG. NO. 165501-2-002
2. JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. 165501-2-004

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

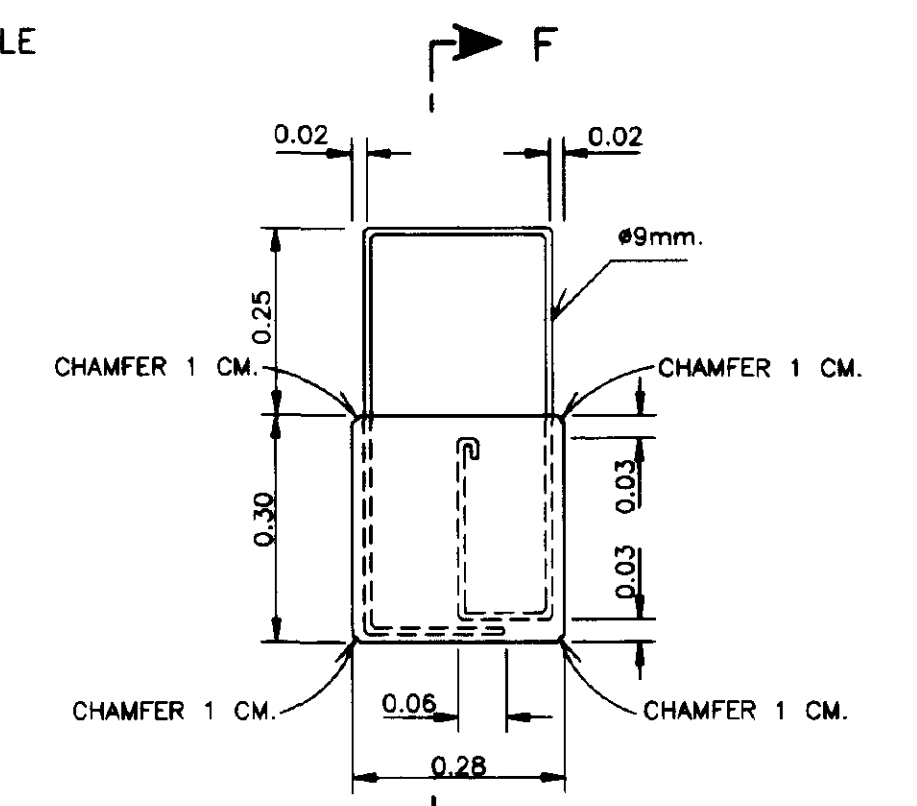
DESIGNED	Am. S. S. S.	SUBMITTED	N. W. S. S.	CS.
DRAWN	Am. S. S. S.	REVIEWED	B. O. S. S.	DD.
TRACED	Am. S. S. S.	RECOMMENDED	Am. S. S. S.	Dir. OED
CHECKED	N. W. S. S.	APPROVED	Am. S. S. S.	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM.
				APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE 5/11/42				DATE
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				165509



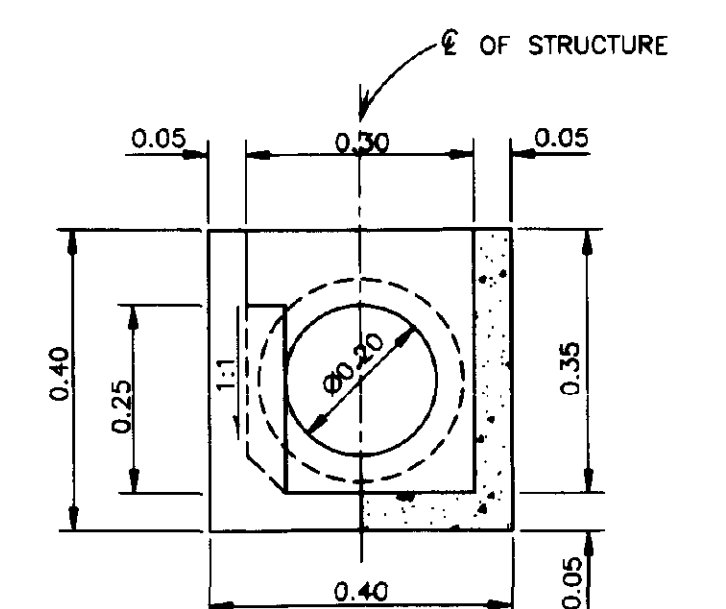
SECTION D-D
NOT TO SCALE



SECTION F-F
NOT TO SCALE



REINF. CONC. GATE
NOT TO SCALE



SECTION E-E
NOT TO SCALE

NOTES

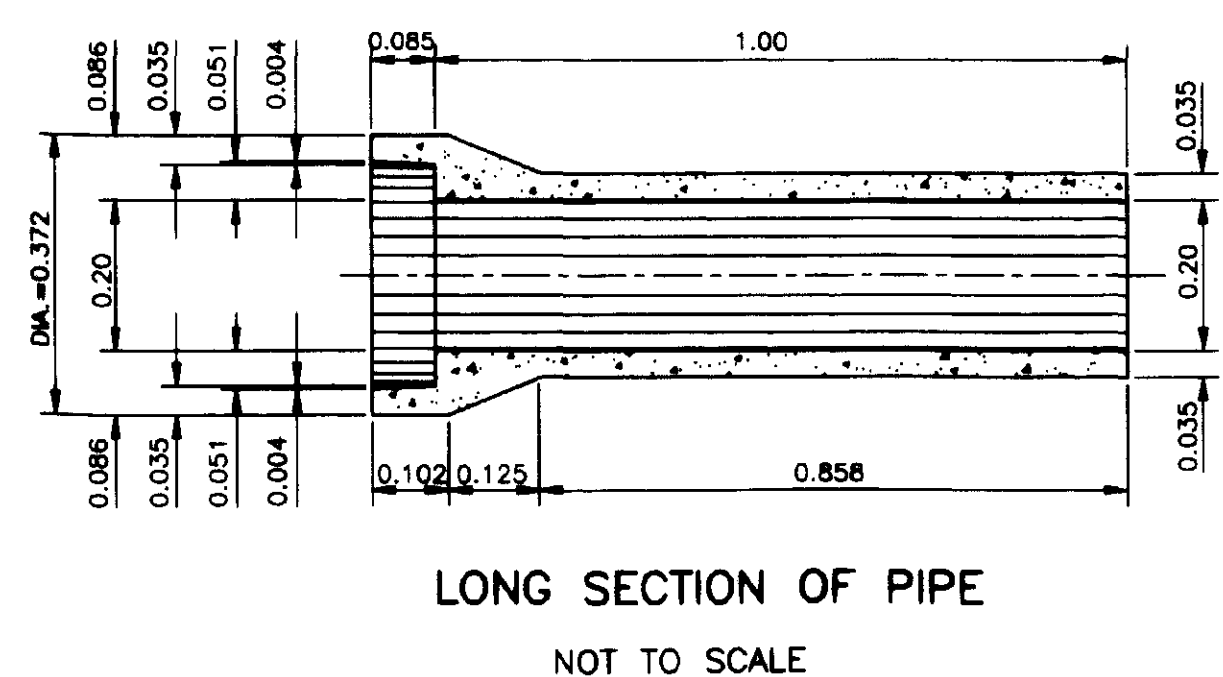
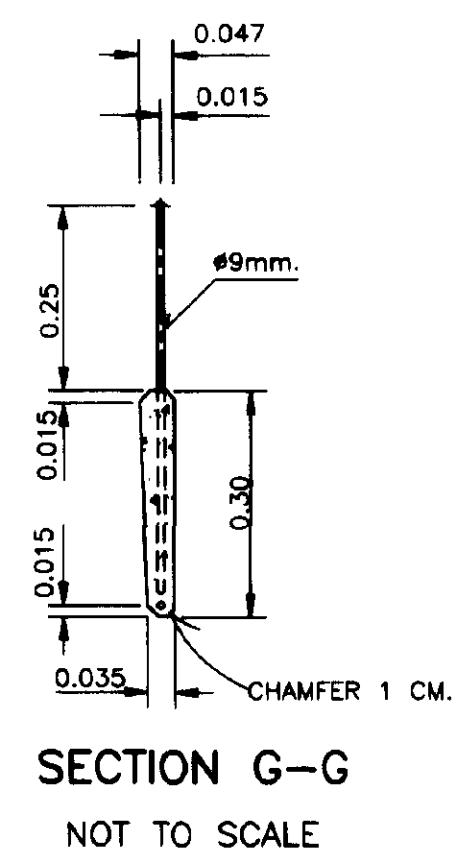
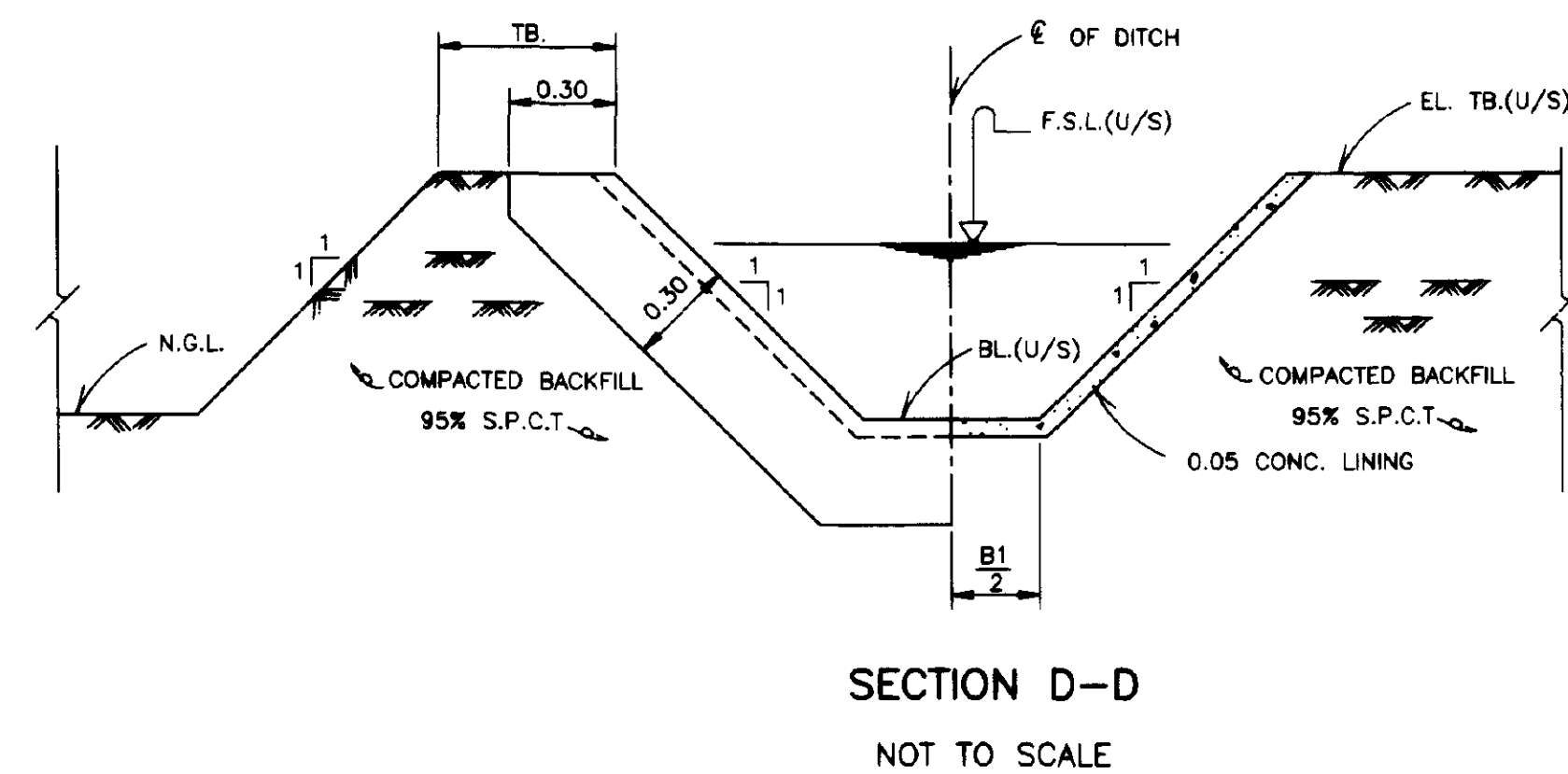
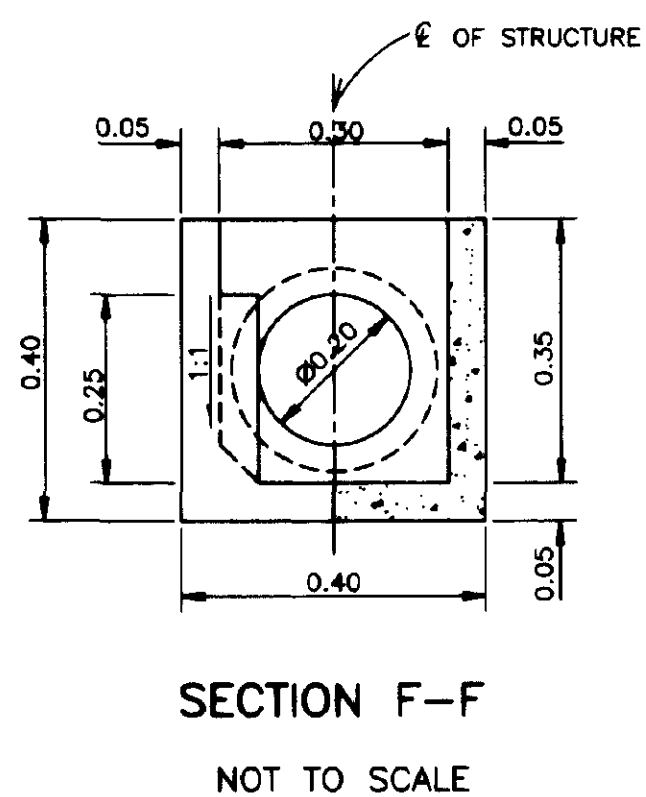
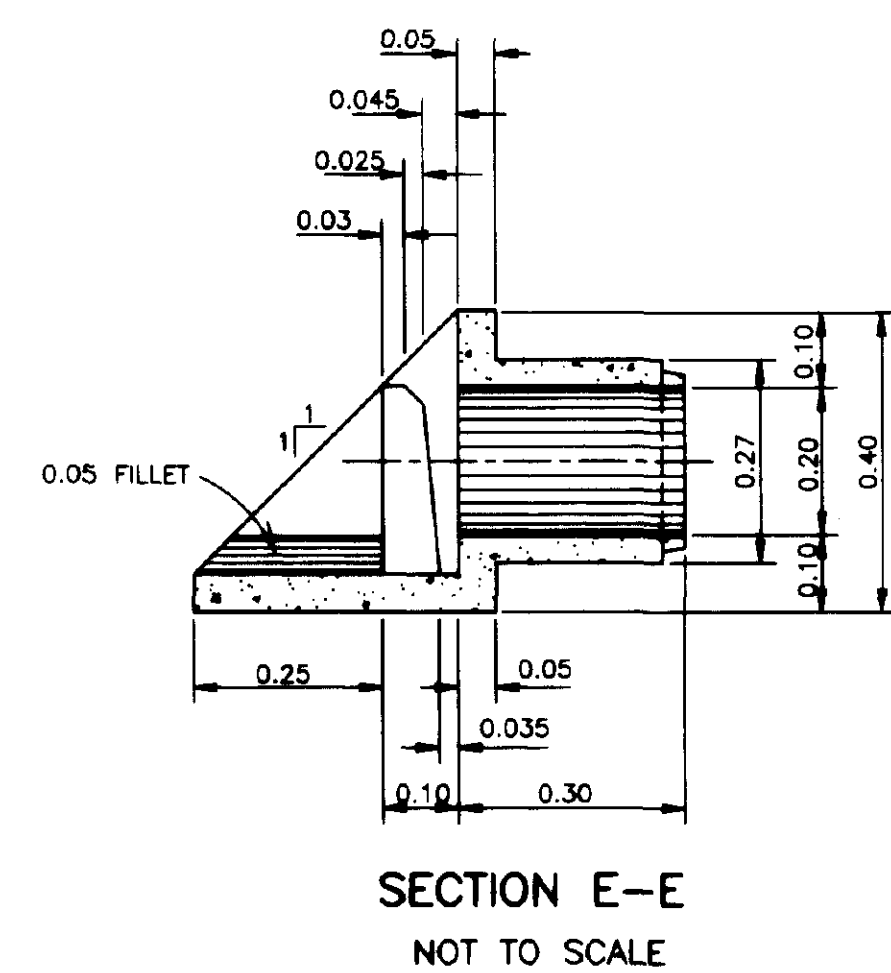
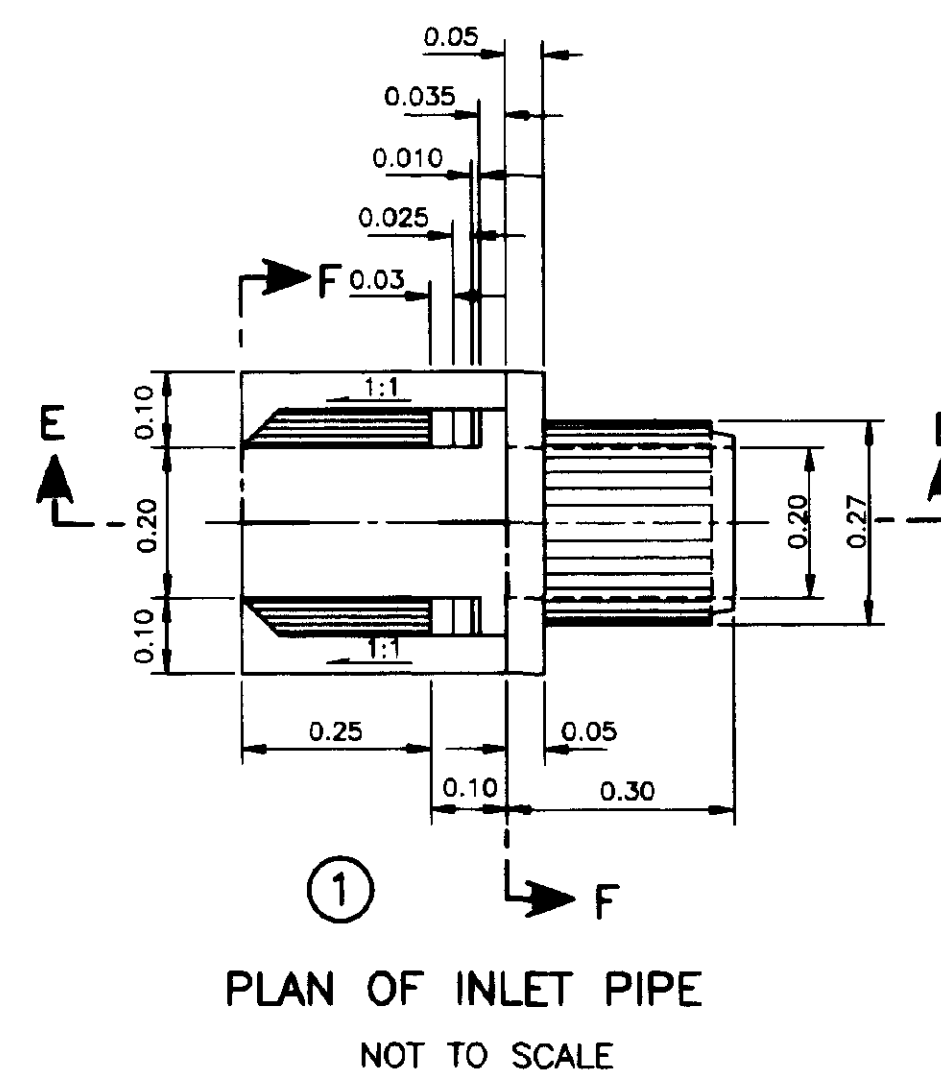
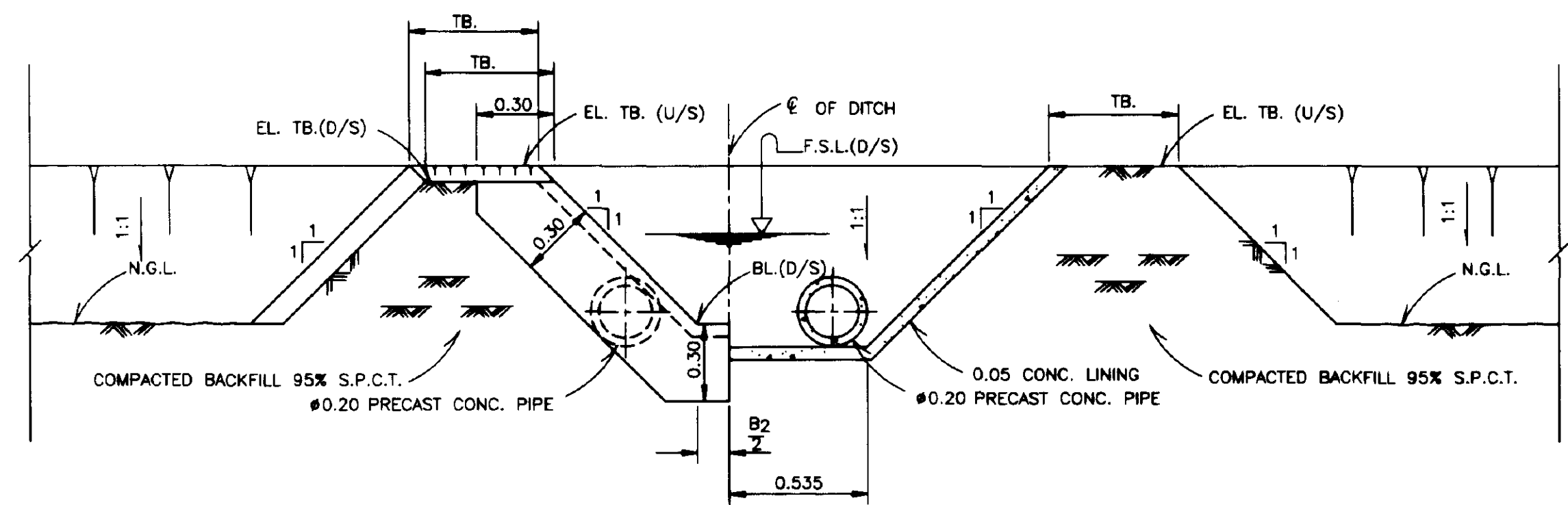
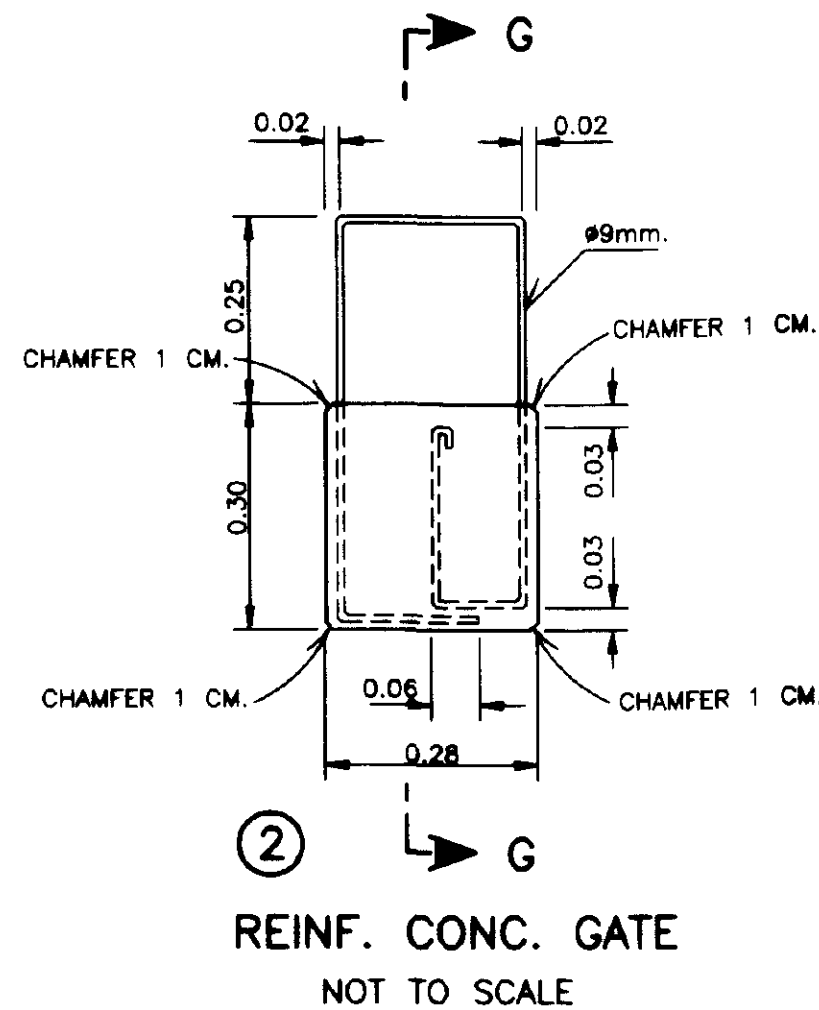
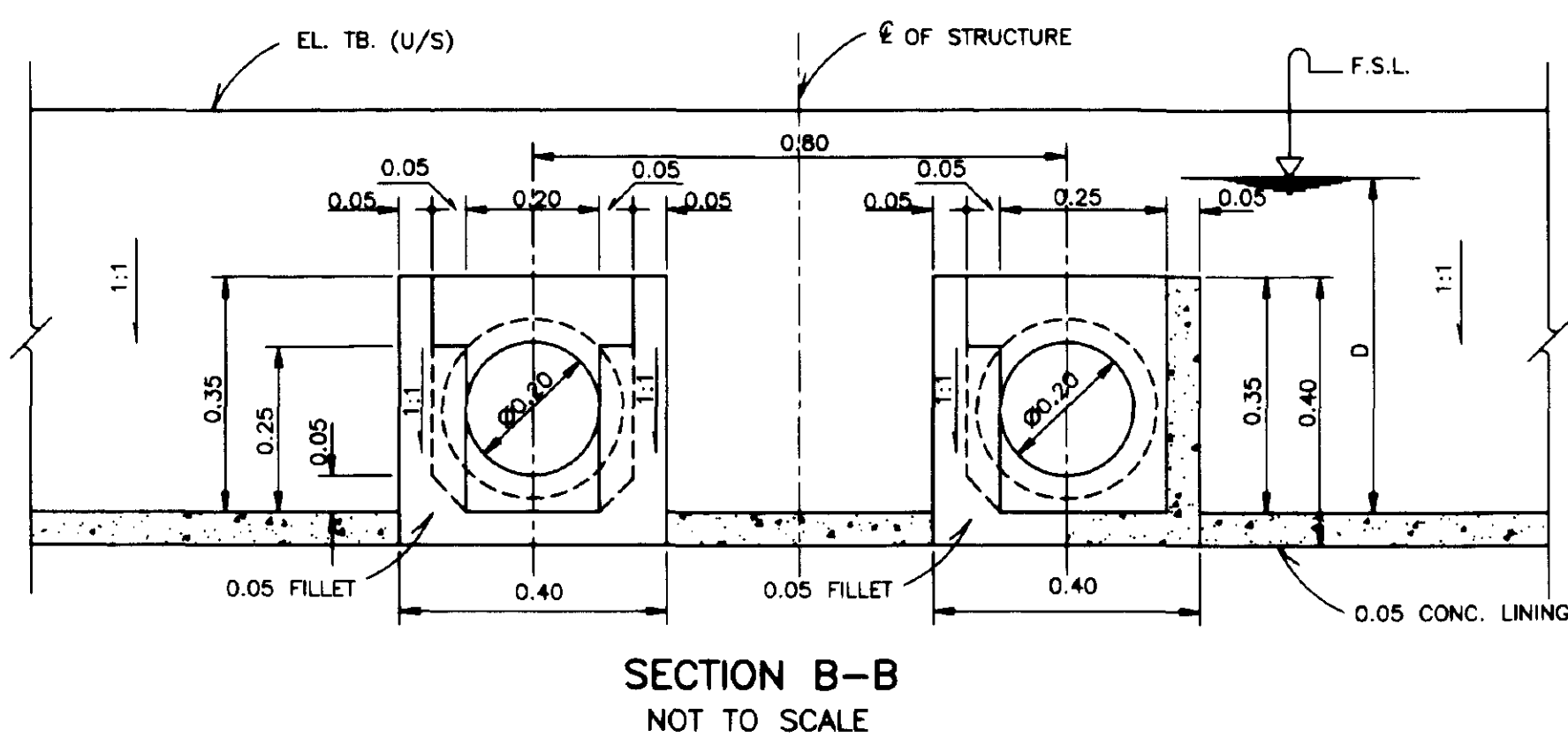
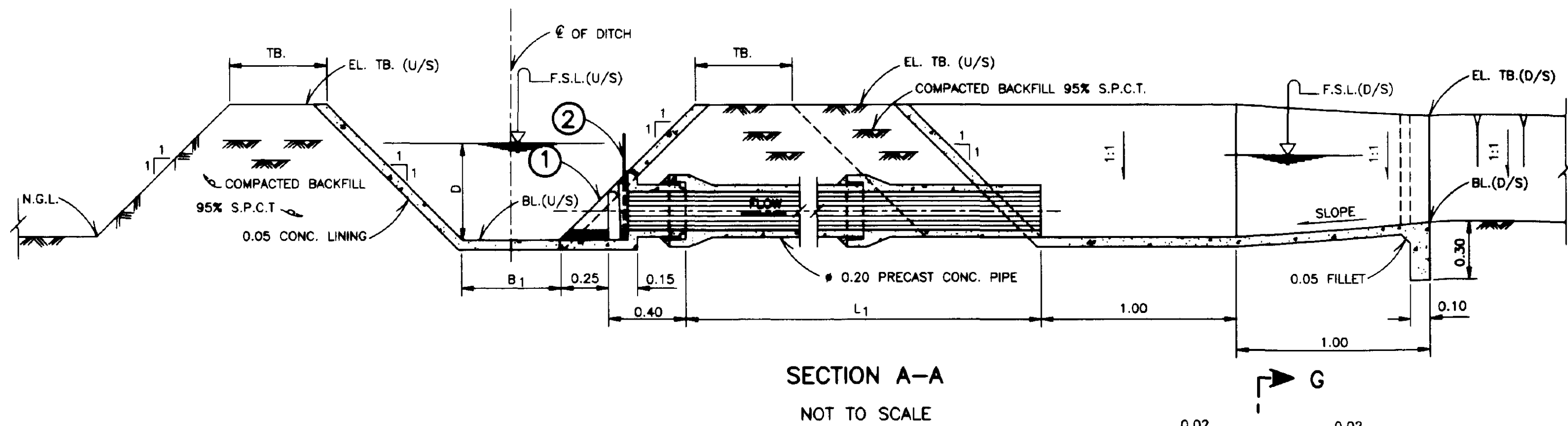
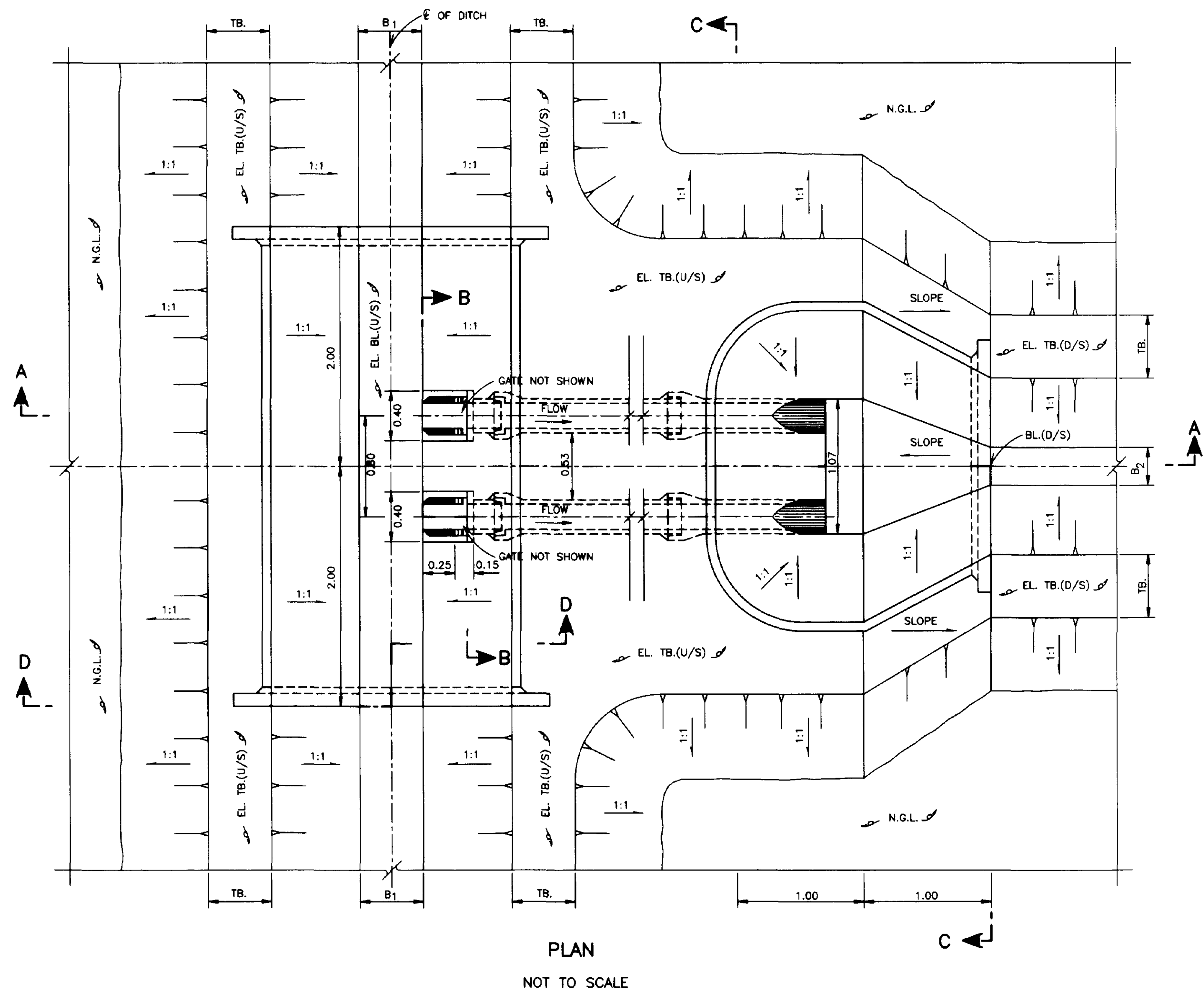
- FOR GENERAL NOTES AND LEGEND REFER TO.....DWG. NO. 165500, 165501
- ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN.
- DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWINGS

JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. 165510-2-004

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL DITCH TURNOUT STRUCTURE
1-Ø 0.20
PLAN, SECTION AND DETAILS

DESIGNED	ASMA	SUBMITTED	N. W. G. S. S. S.	CS.
DRAWN	ASMA	REVIEWED	B. O. T. S. S.	DDD.
TRACED	HEMAT SAKHEER	RECOMMENDED	Sawada	Dir. OEDA
CHECKED	N. W. G. S. S. S.	APPROVED	Sawada	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM.
				APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE 3.11.42				165510
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				DATE



NOTES

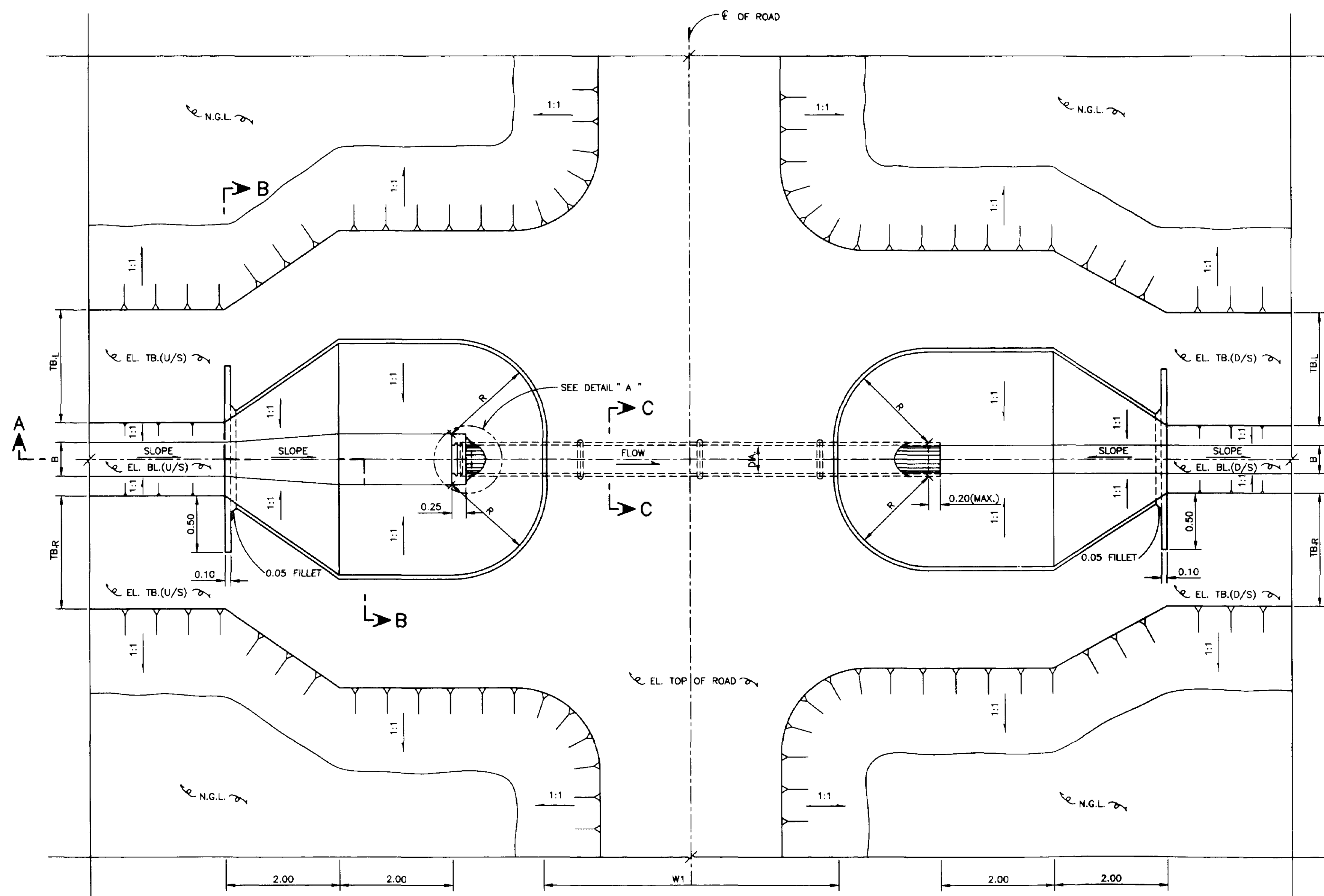
- FOR GENERAL NOTES AND LEGEND REFER TO DWG. NO. 165500, 165501
- ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN.
- DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWINGS

JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. 165511-2-004

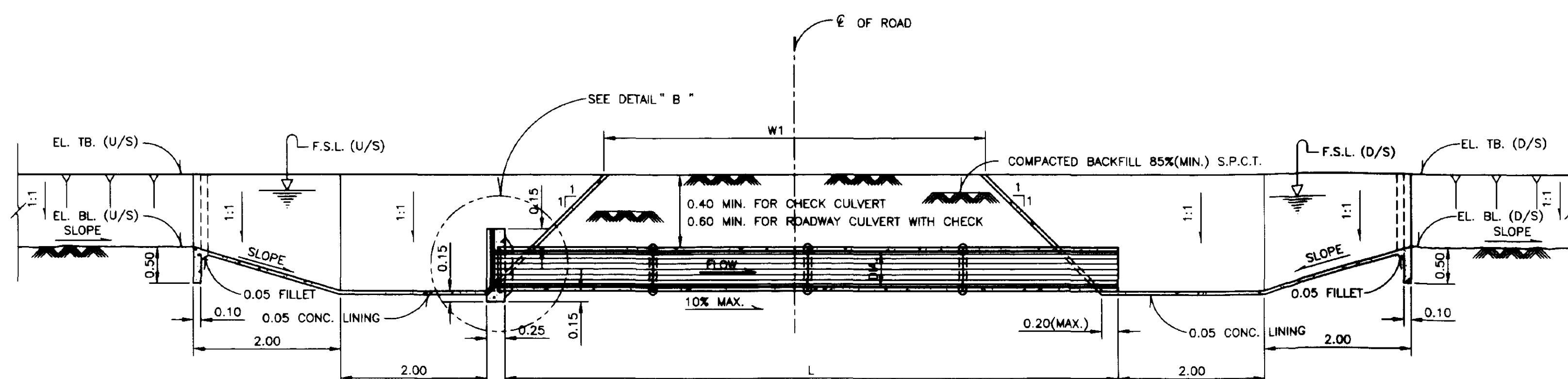
ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL DITCH TURNOUT STRUCTURE
2-0.20
PLAN, SECTION AND DETAILS

DESIGNED	Amr. Mansour	SUBMITTED	N. Wahyansidi	CS.
DRAWN	Amr. Mansour	REVIEWED	B. Omer	DDD.
TRACED	REHAB. SURTHESABE	RECOMMENDED	Sawade	Dir. OEDA
CHECKED	N. Wahyansidi	APPROVED	Sawade	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM.
				APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE 5.11.42				DATE
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				165511

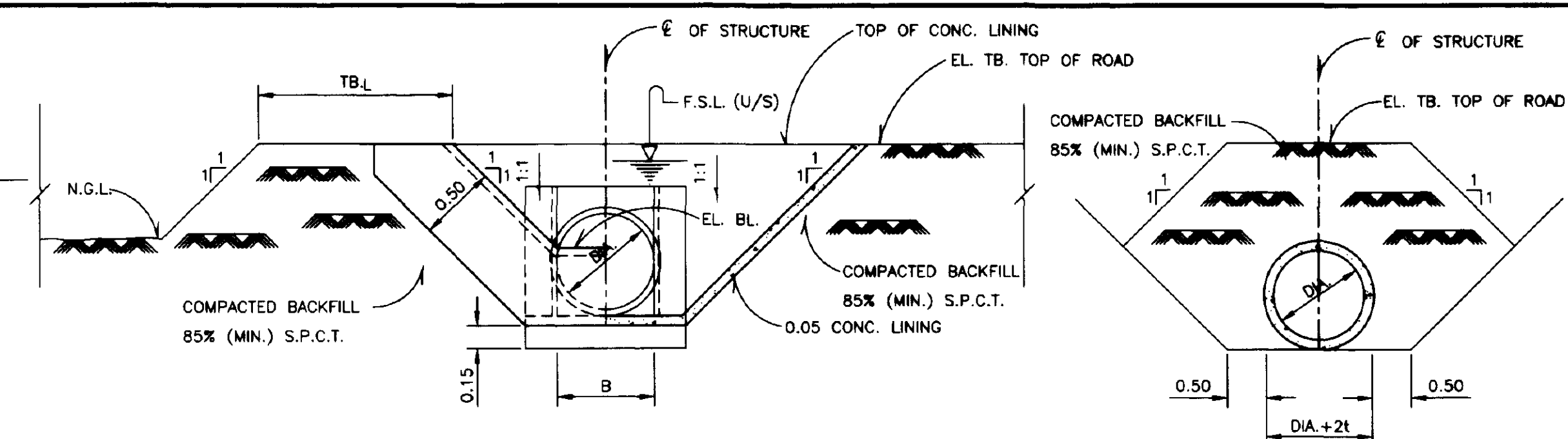


PLAN

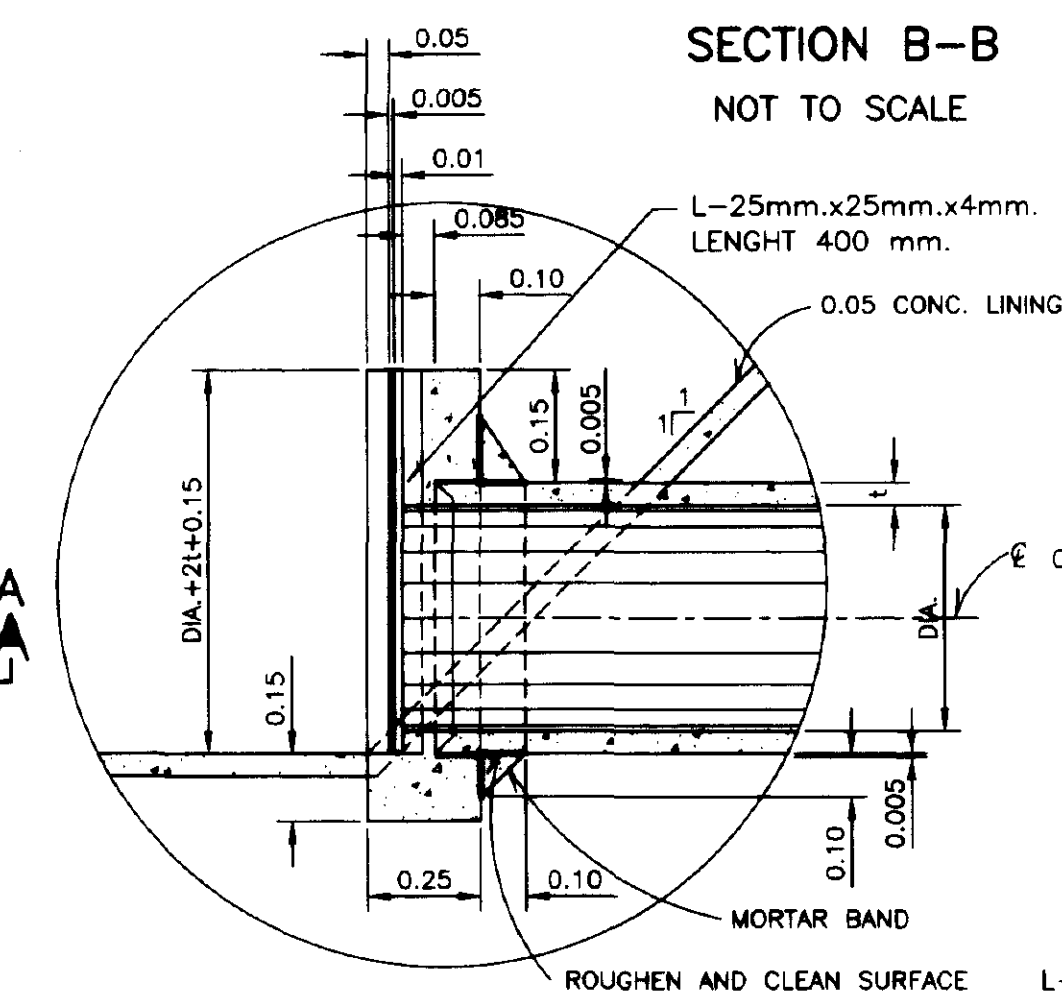
NOT TO SCALE



SECTION A-A
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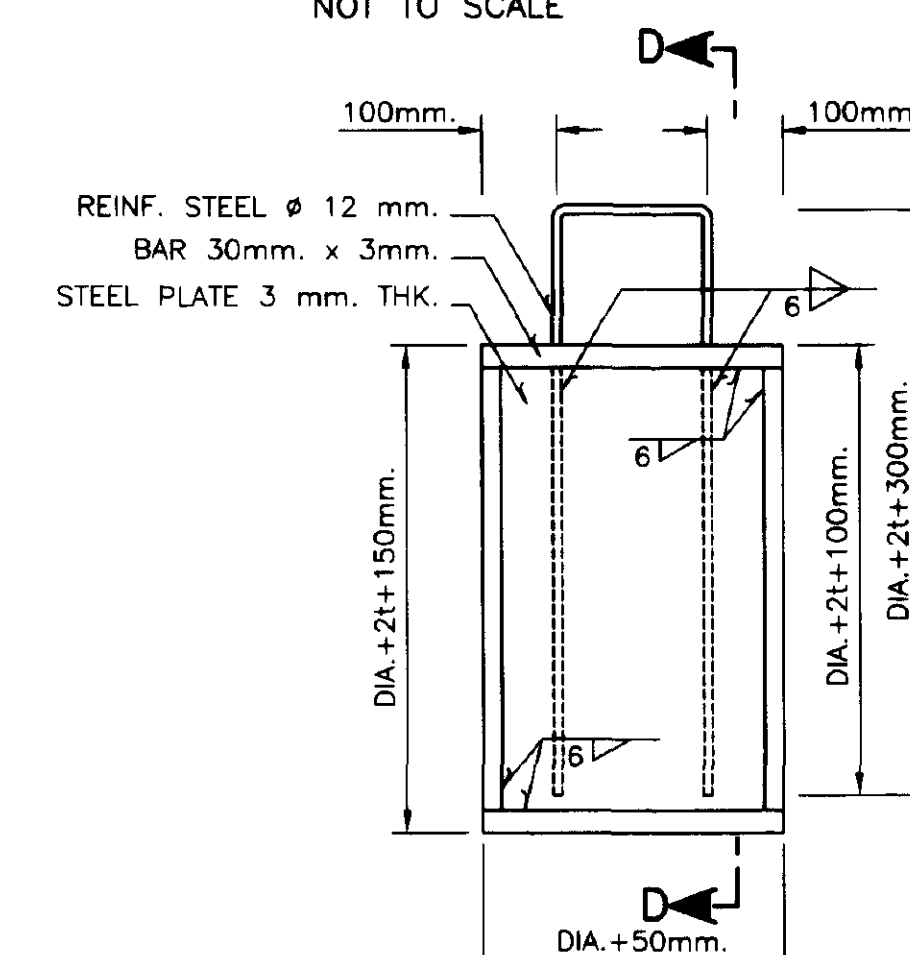


SECTION B-B
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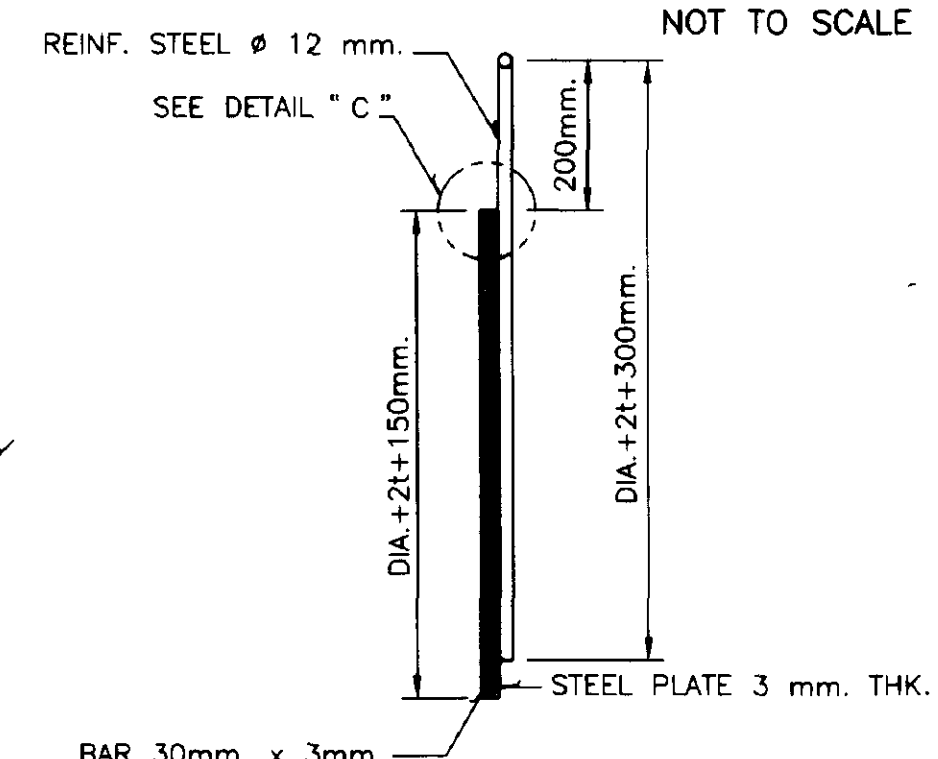


DETAIL " B "

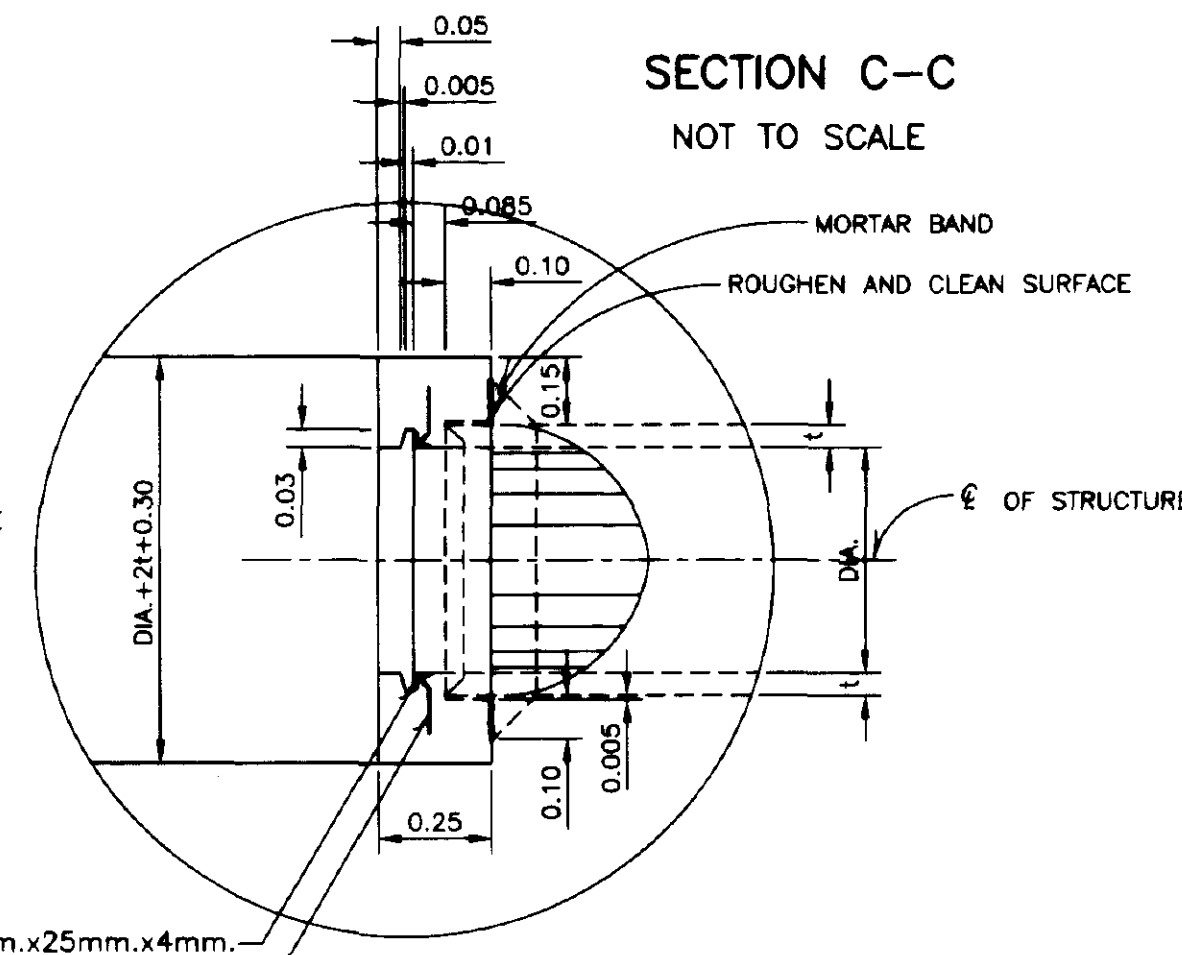
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STEEL GATE
NOT TO SCALE



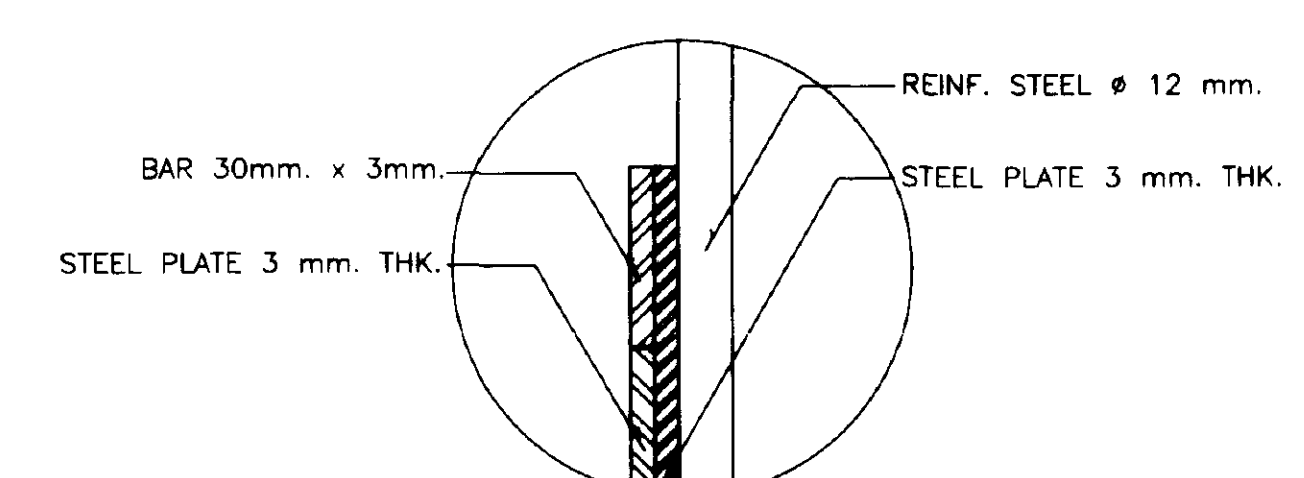
STEEL GATE
SECTION D-D
NOT TO SCALE



SECTION C-C
NOT TO SCALE

DETAIL " A "

NOT TO SCALE



DETAIL " C "

NOT TO SCALE

NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG. NO. 165500 , 165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L) ARE IN METERS , UNLESS OTHERWISE SHOWN.
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
4. IN CASE OF CHECK CULVERT $W_1 = 1.50$ M.

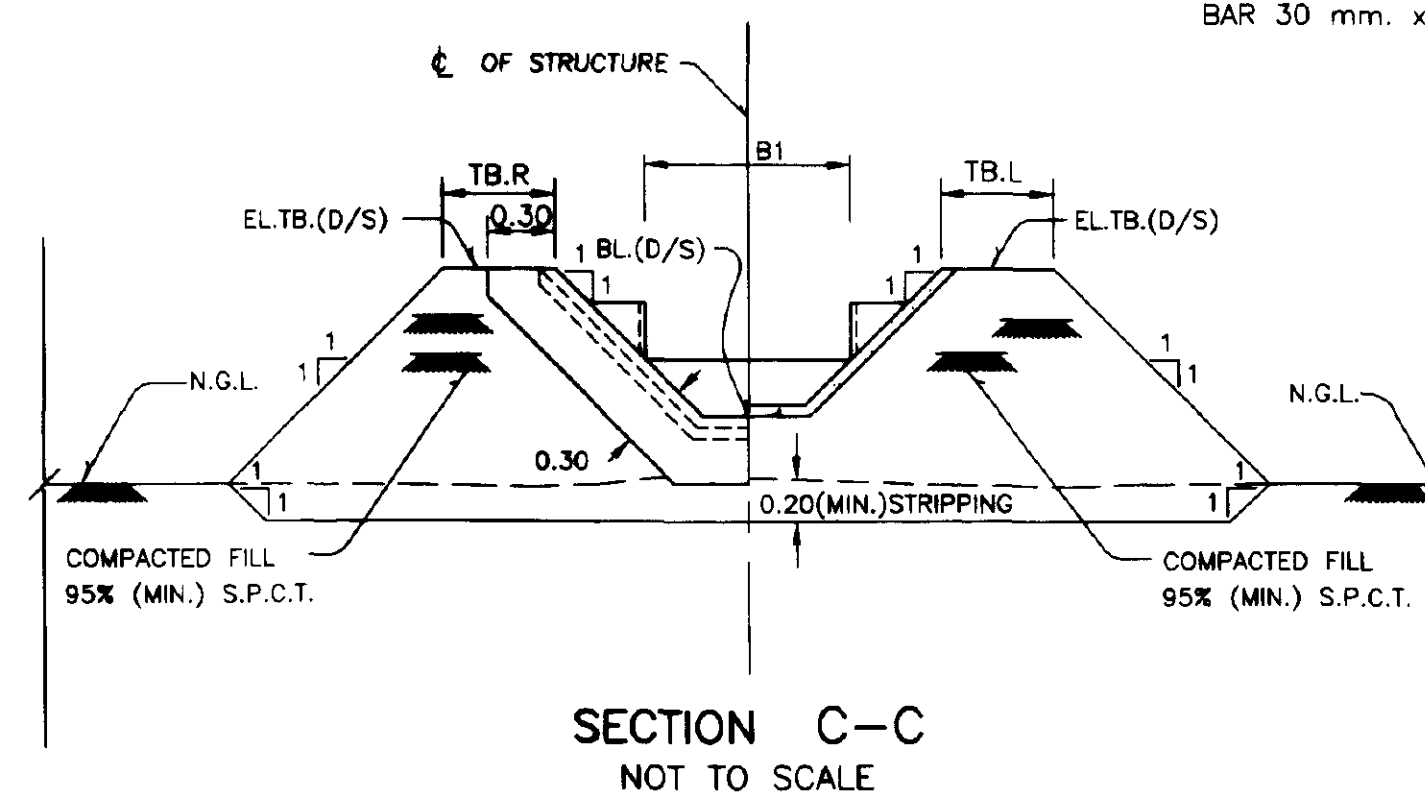
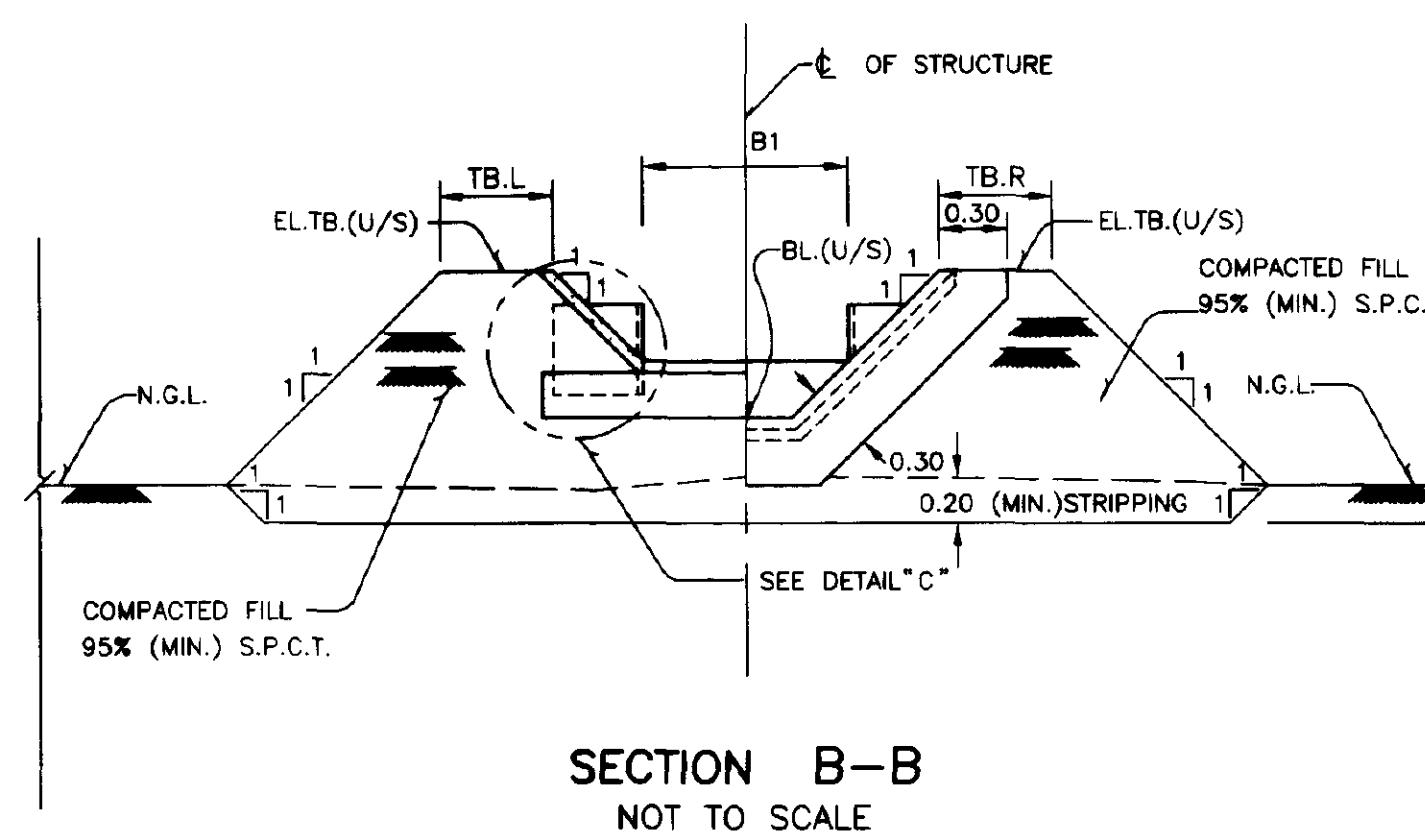
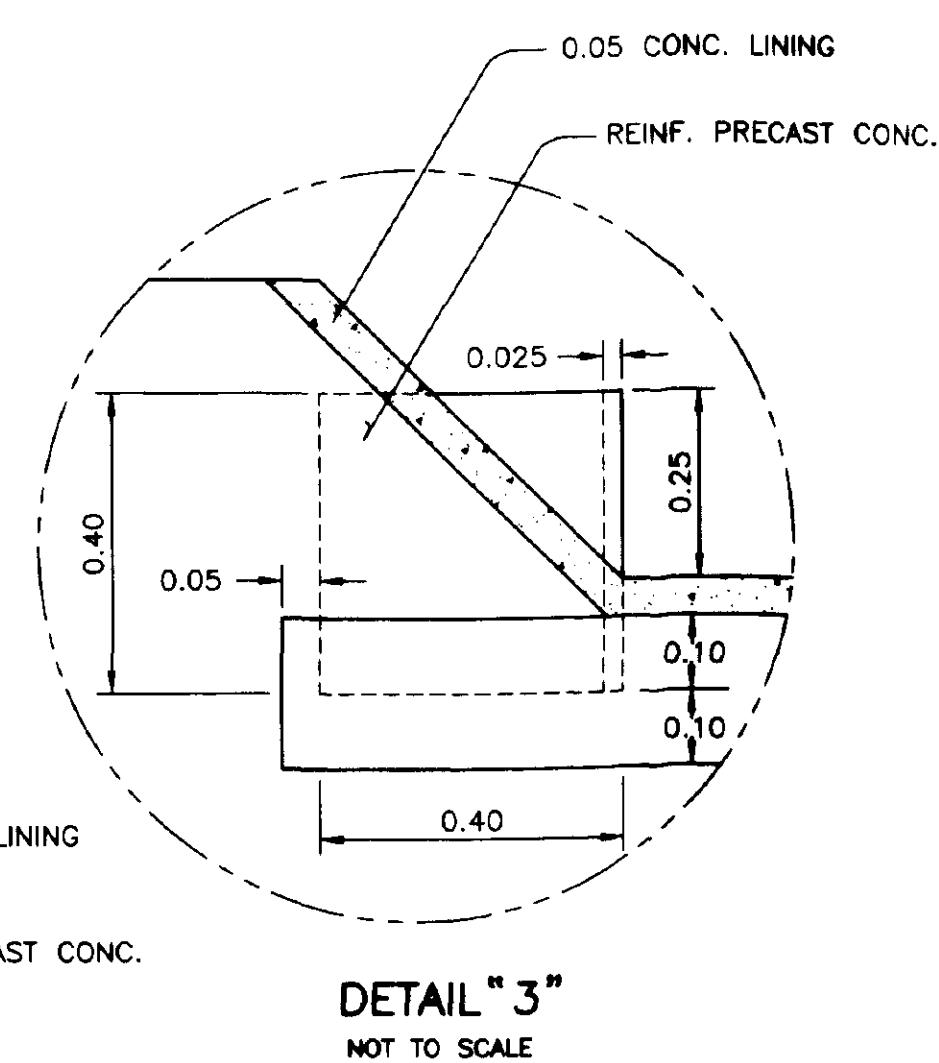
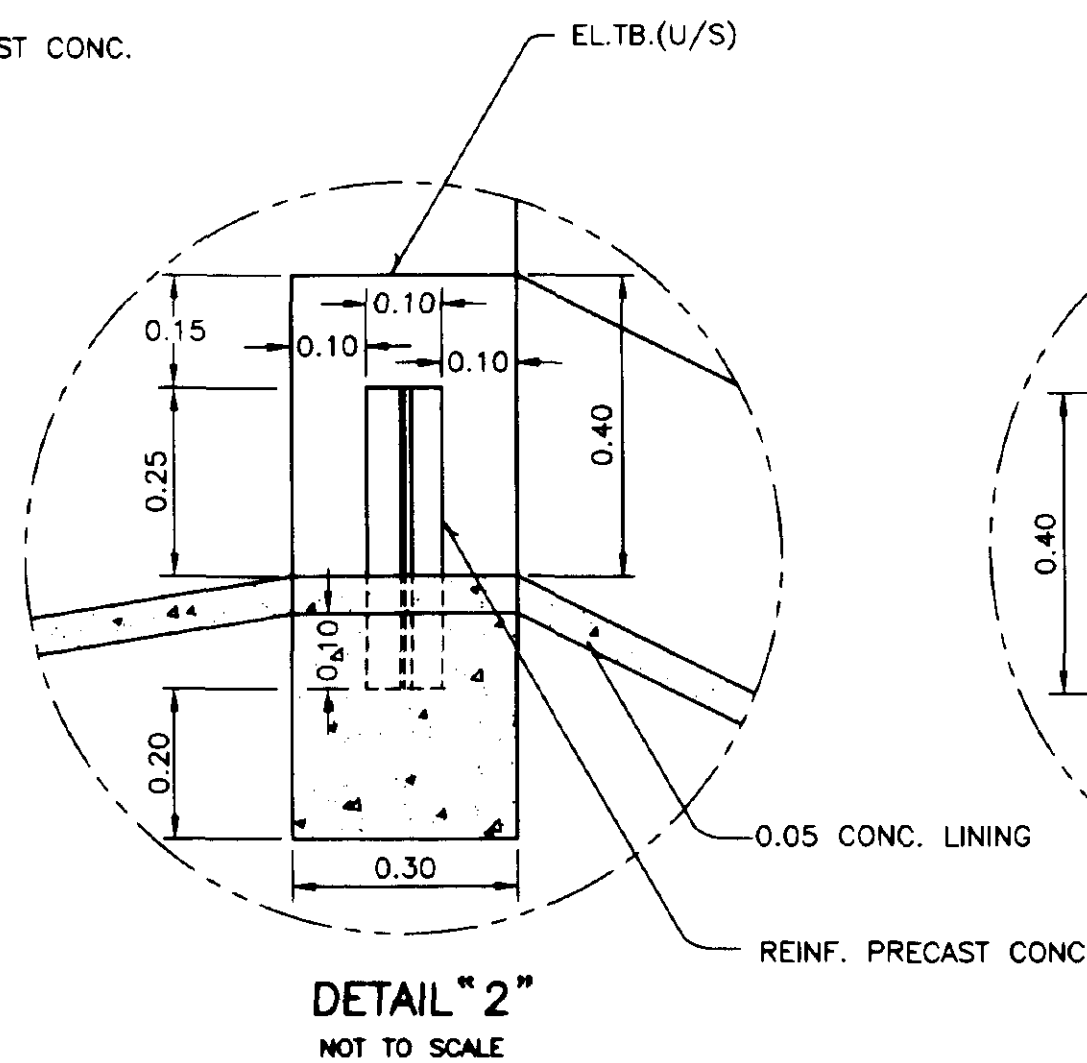
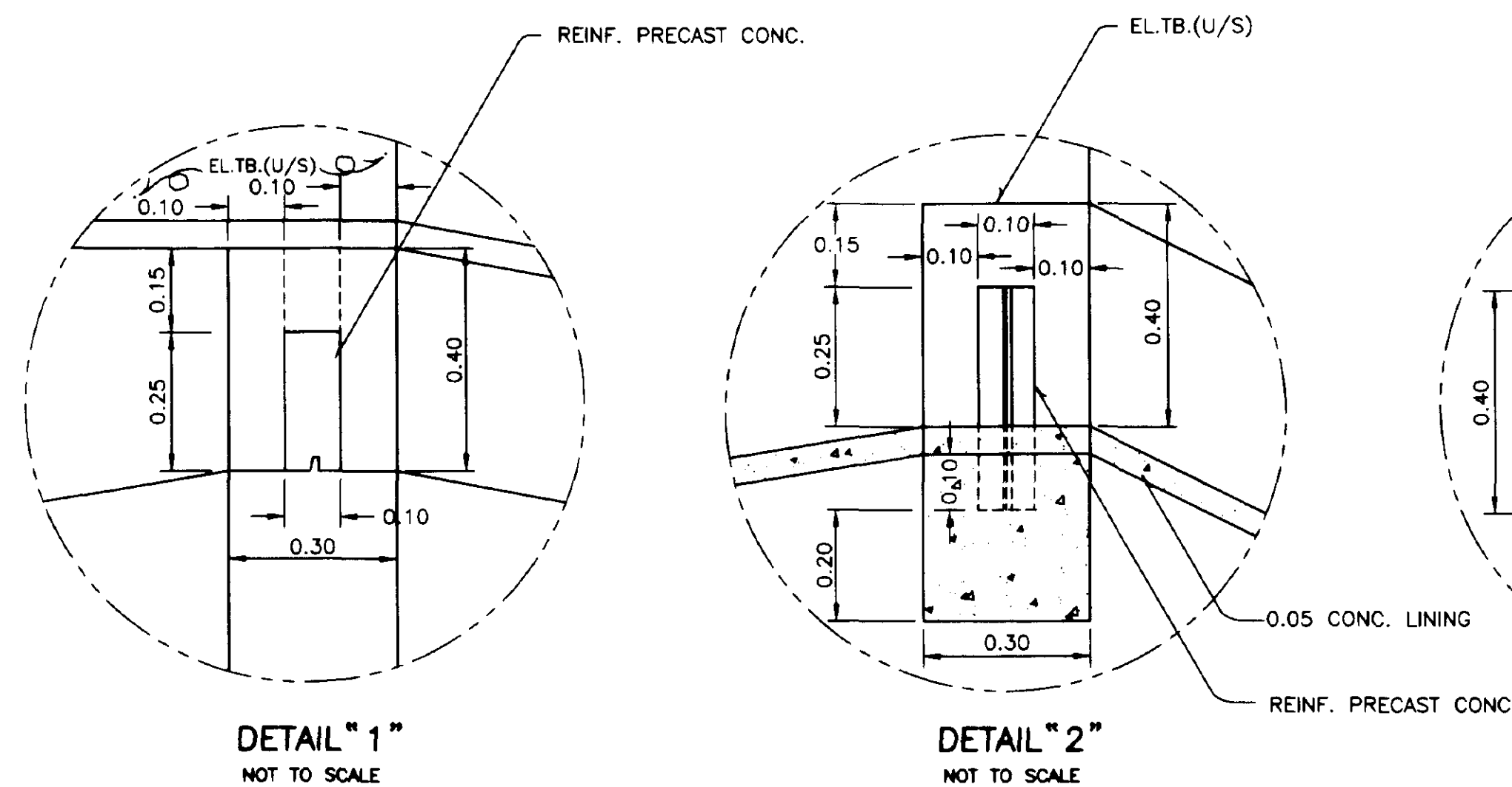
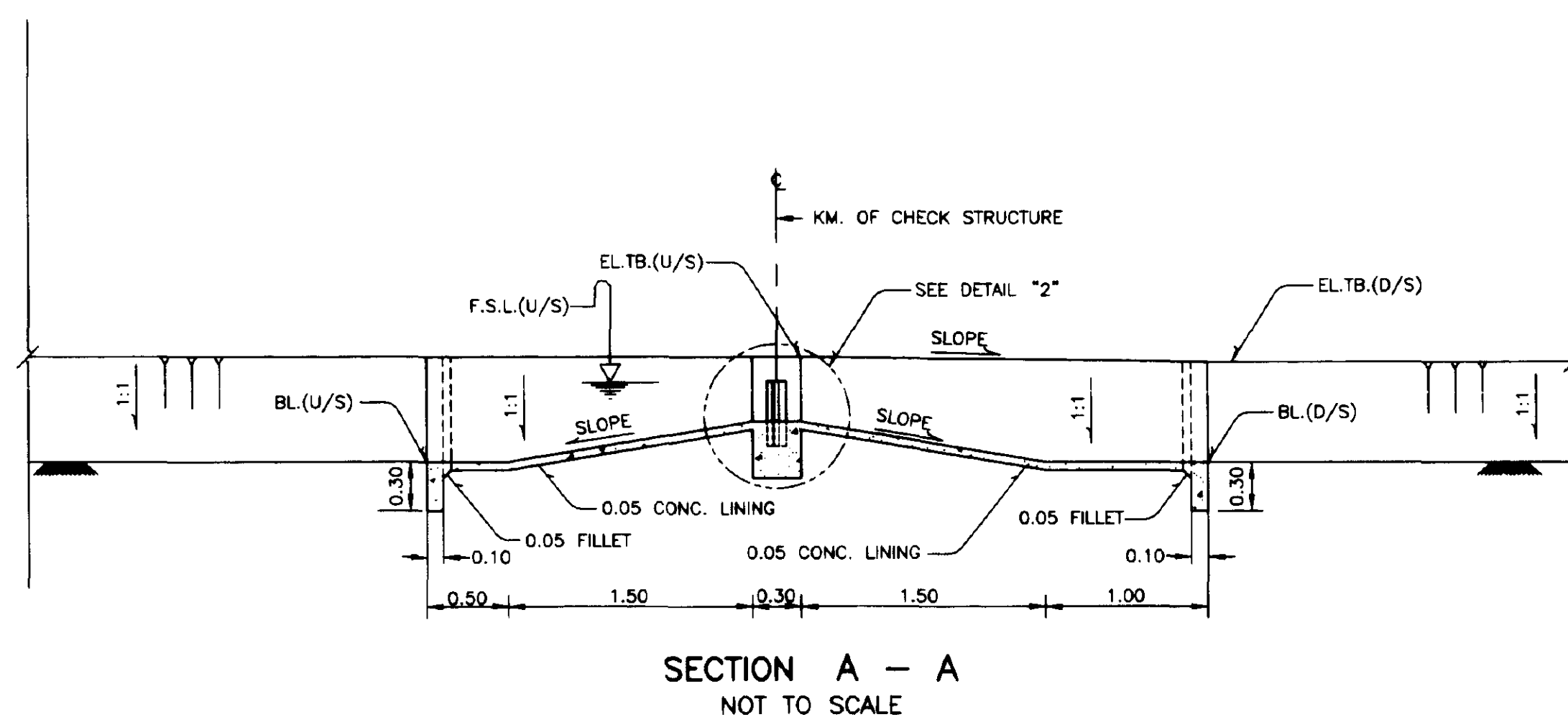
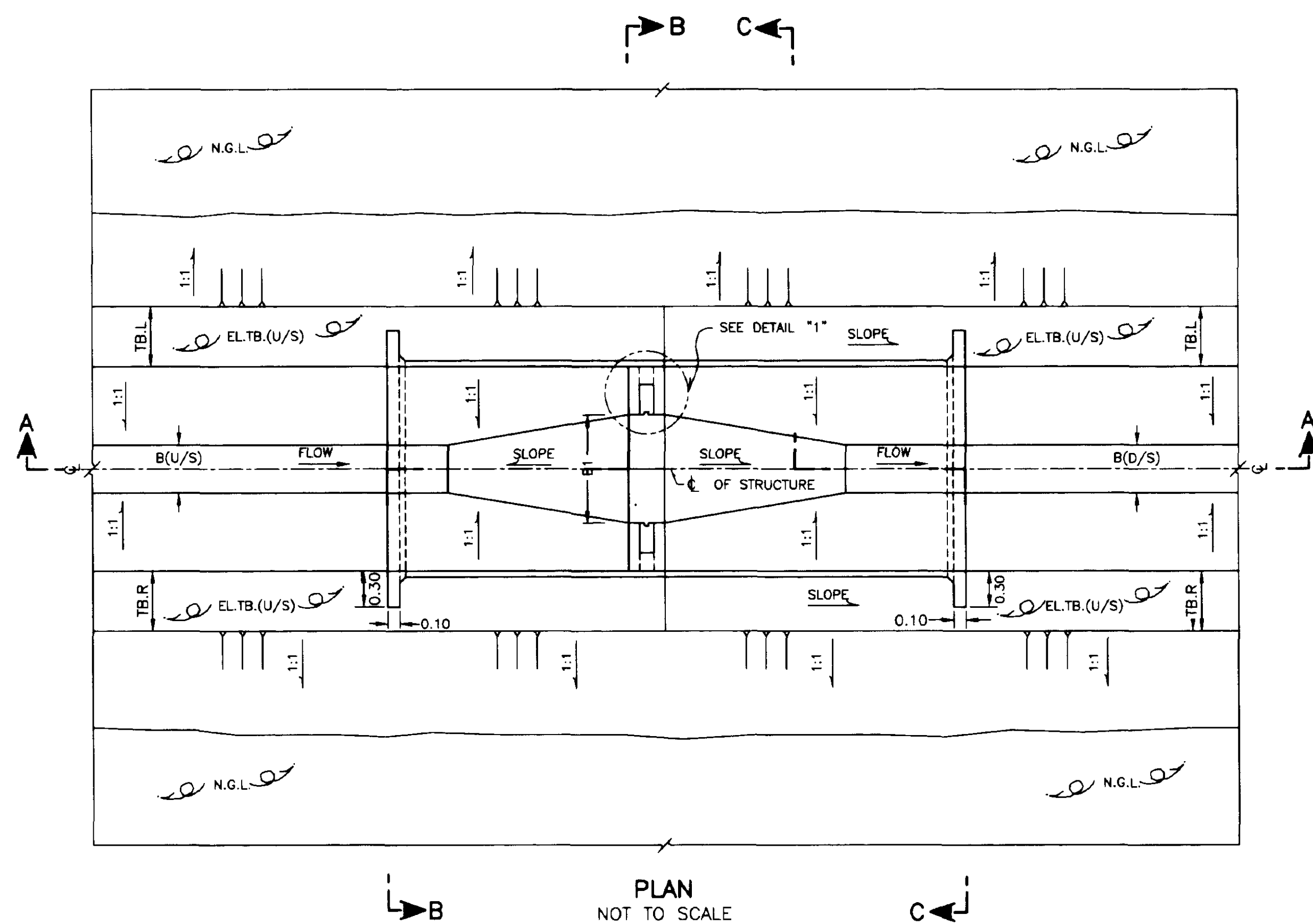
REFERENCE DRAWINGS

1. REINF. PRECAST CONCRETE PIPE.....DWG. NO. **NSU**. 2-002
2. JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. **NSU**. 2-004

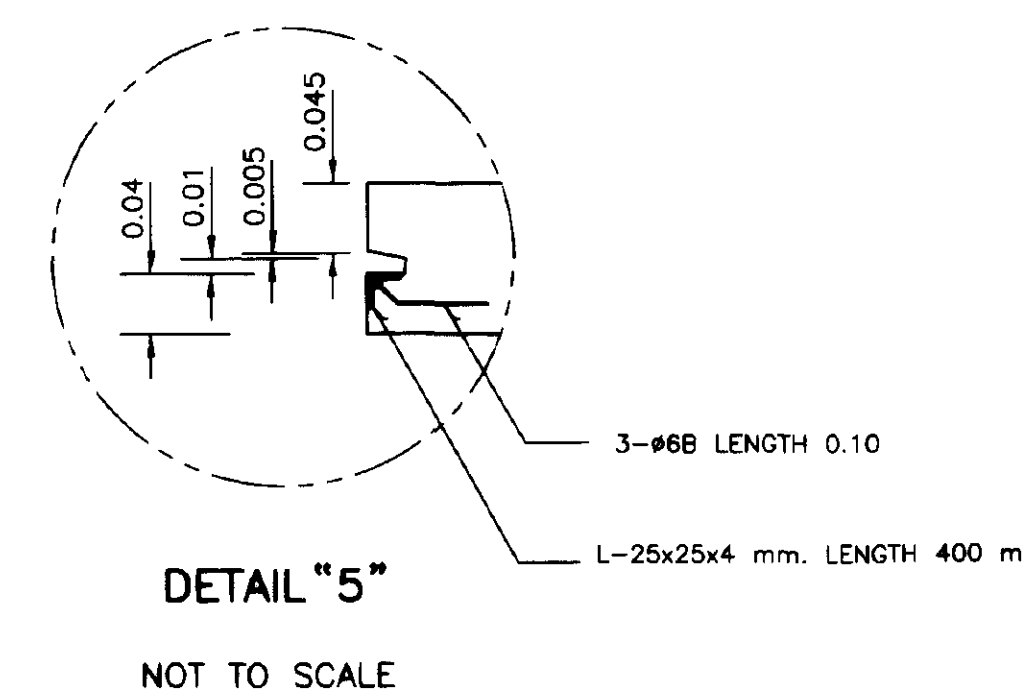
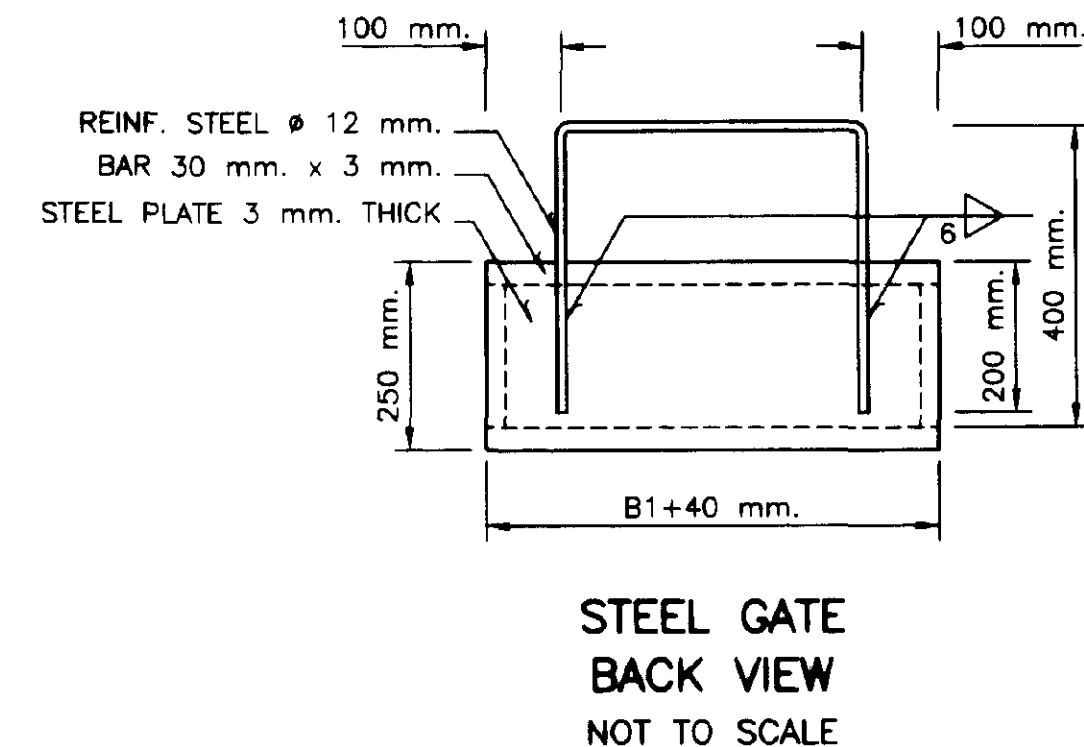
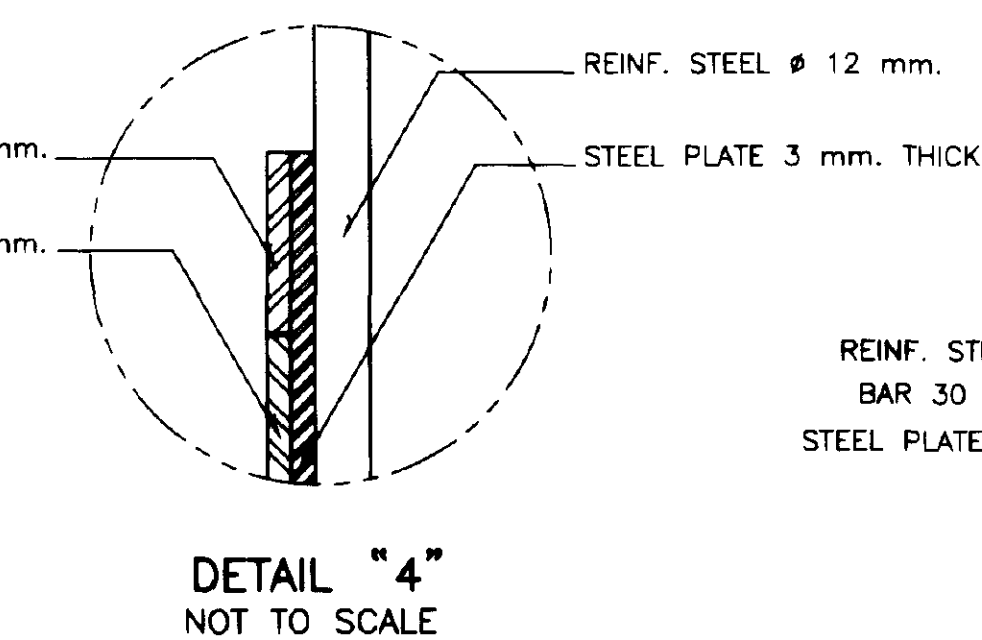
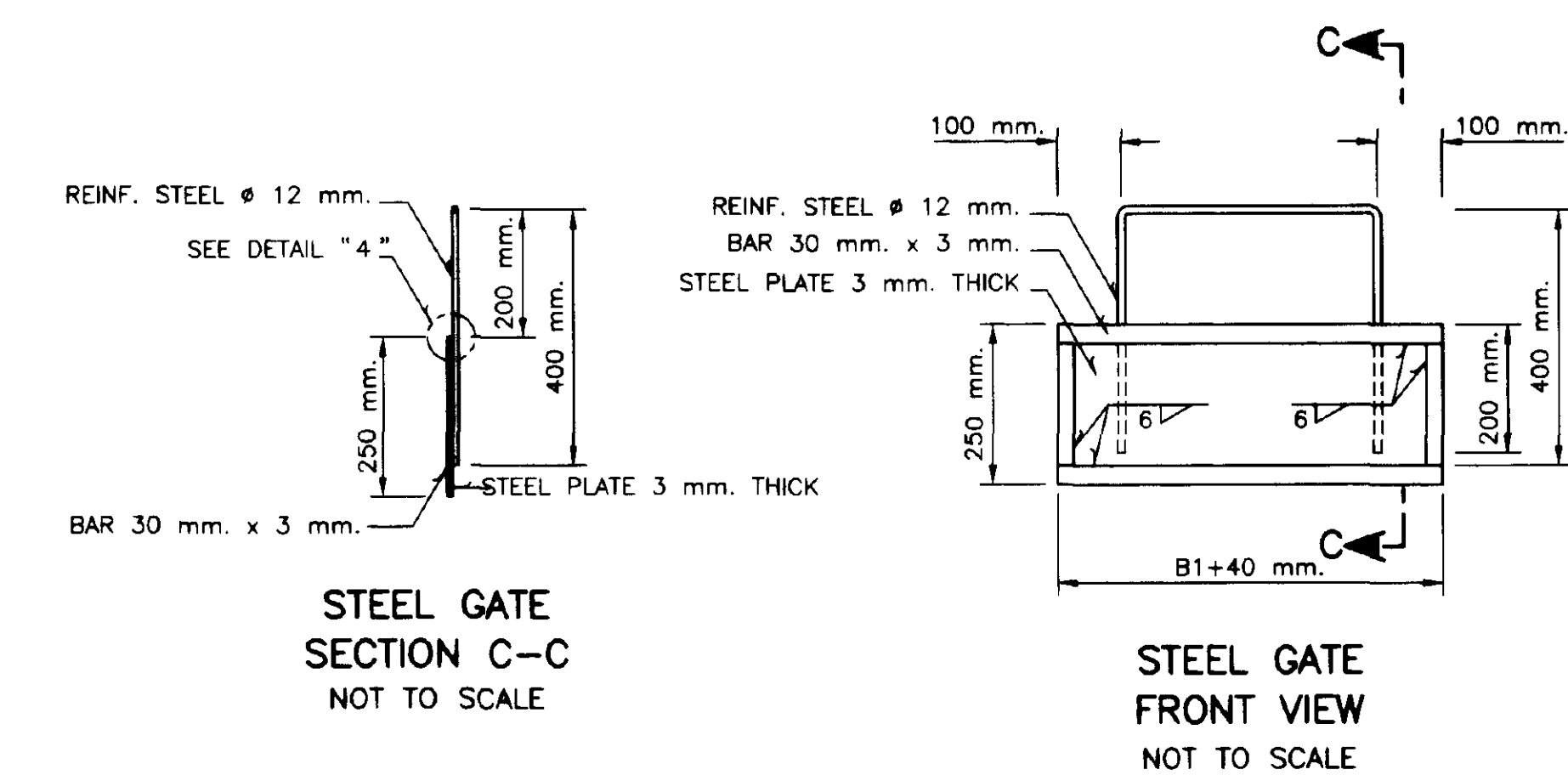
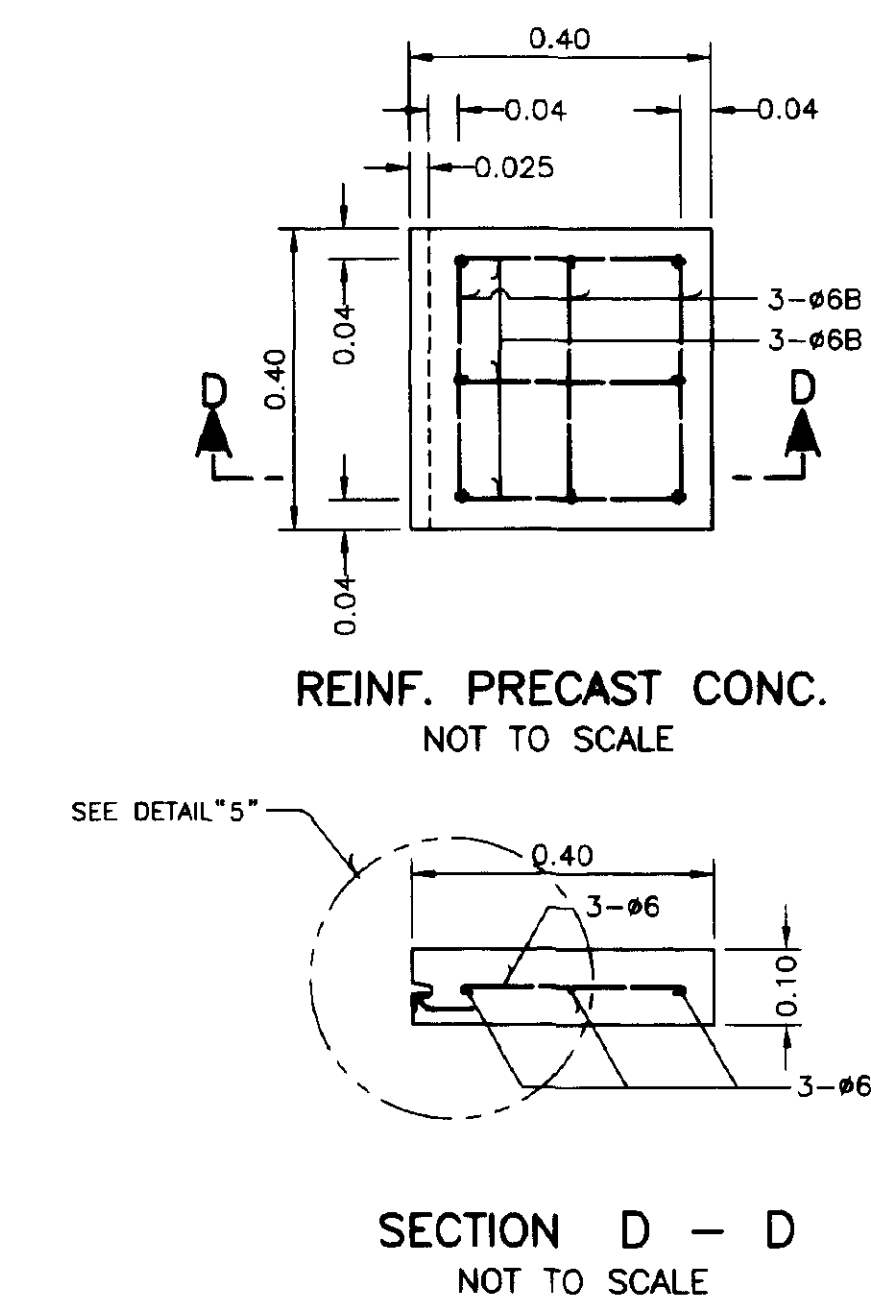
ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL CHECK CULVERT OR ROADWAY
CULVERT WITH CHECK STRUCTURE

PLAN , SECTIONS AND DETAILS

							DESIGNED	Sindhu Gargi	SUBMITTED	Aspirat Bachain	CS.
							DRAWN	Sindhu Gargi	REVIEWED	B. O. T. G.	DDD.
							TRACED	ma	RECOMMENDED	Sawade	Dir. OEDA
							CHECKED	Tarun T.	APPROVED	Sawade	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH			S.D.M. DATE	165513



DITCH TYPE	B1 (m.)
E1	0.60
E2	0.90
E3	1.10
E4	1.20
L1	0.40
L2	0.60
L3	0.70
L4	0.80



NOTES

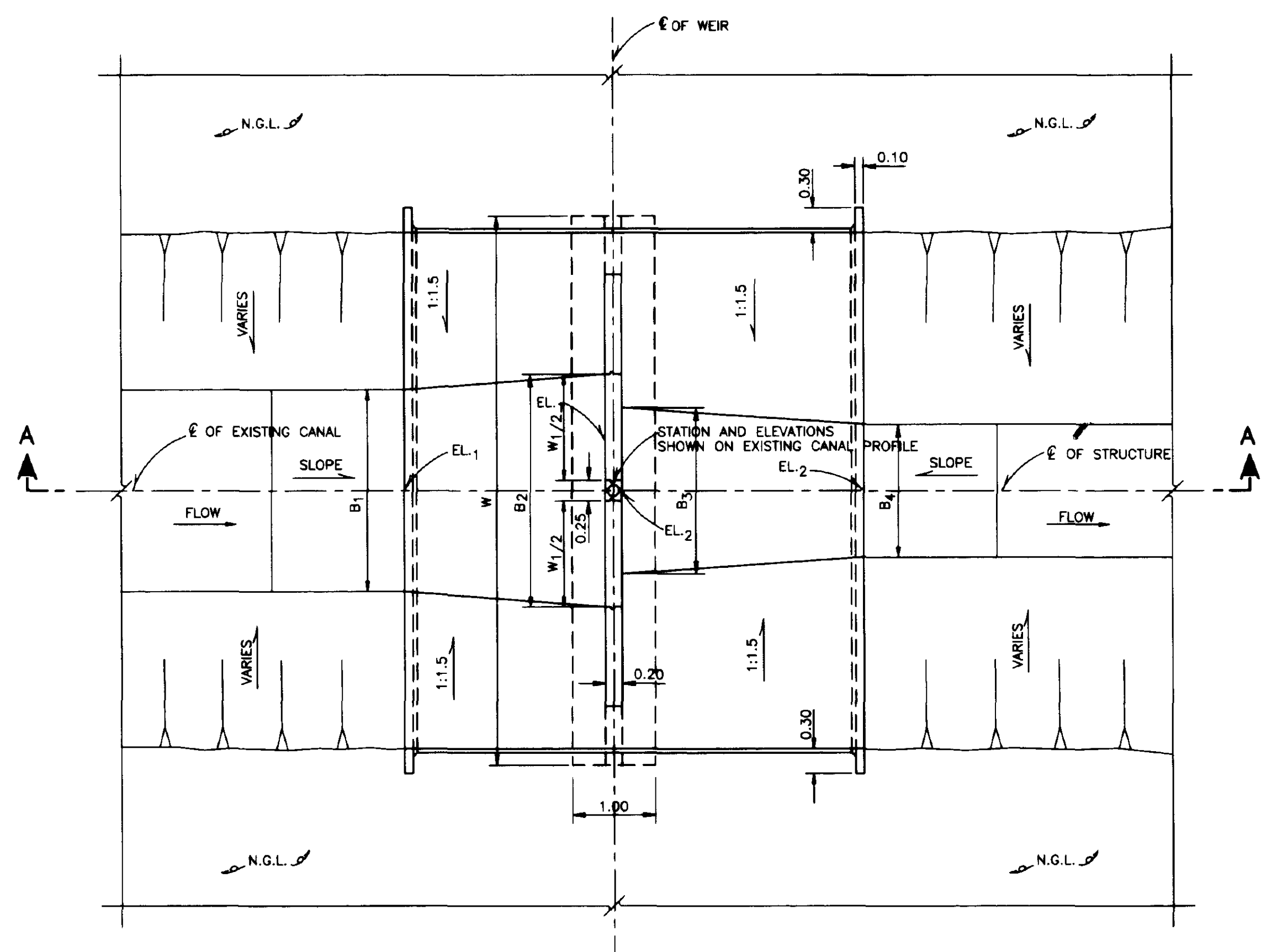
1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG.NO. 165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METER UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD
4. ALL STEEL SURFACES SHALL BE PAINTED, RUST-RESISTANCE PAINT SHALL BE APPLIED IN ONE COAT AND FINISH OIL COLOR PAINT SHALL BE APPLIED IN TWO COATS.

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL CHECK STRUCTURE
PLAN , SECTIONS AND DETAILS

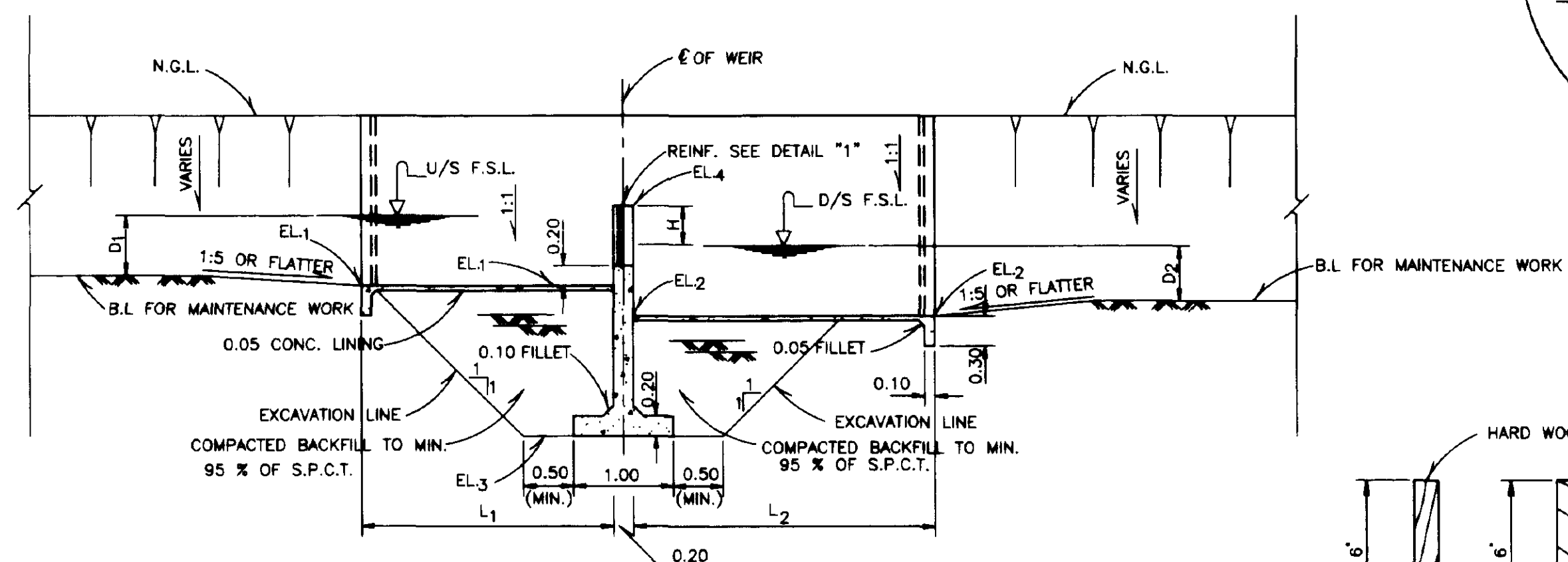
DESIGNED	SAWADA	SUBMITTED	SAWADA	CS.
DRAWN	SAWADA	REVIEWED	SAWADA	DDD.
TRACED	SAWADA	RECOMMENDED	SAWADA	DR.OEDA.
CHECKED	SAWADA	APPROVED	SAWADA	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOM. APPROVED

OFFICE OF ENGINEERING DESIGN & ARCHITECTURE
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH

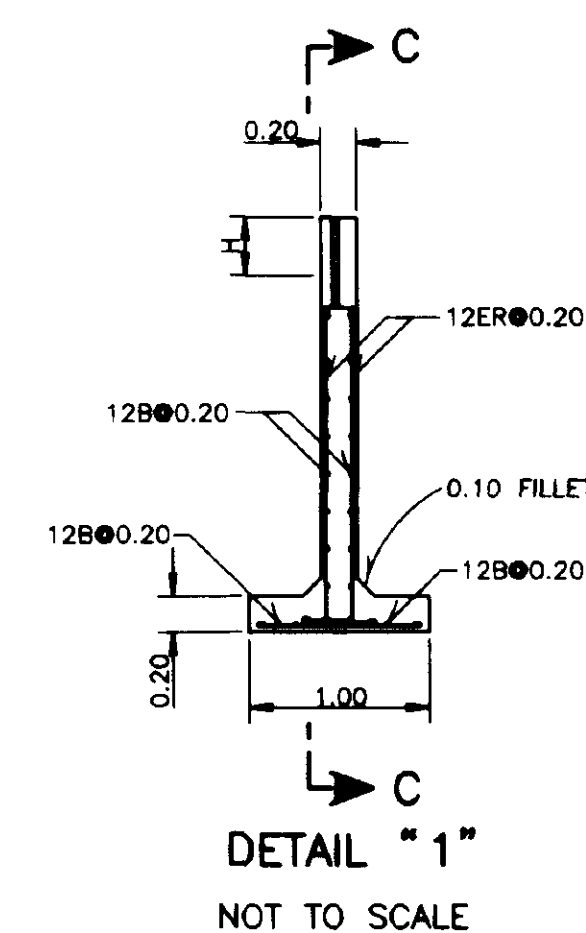
165514



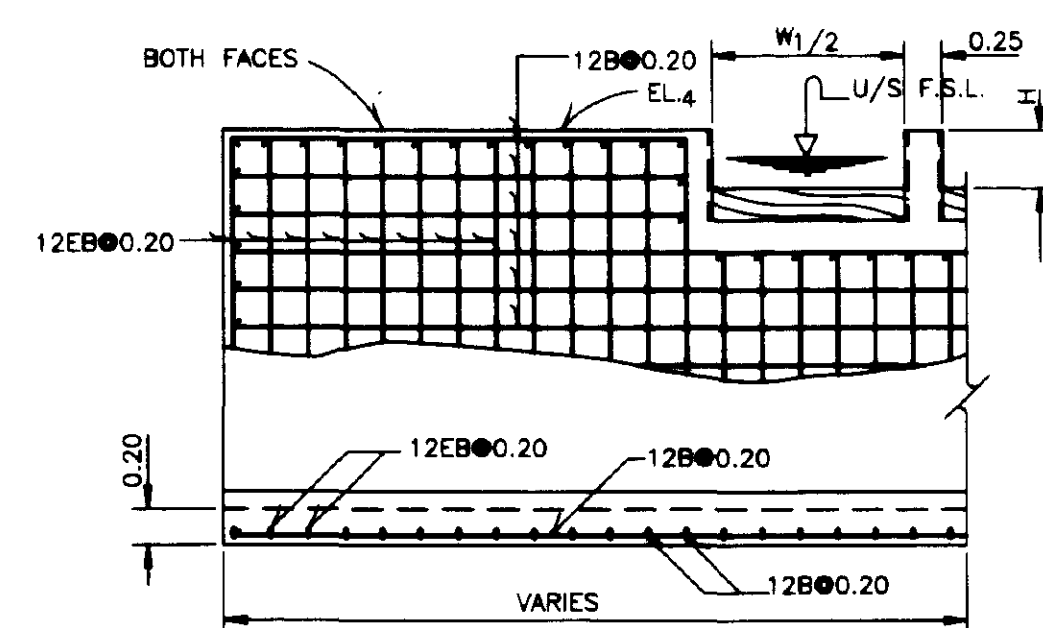
PLAN TYPE A
NOT TO SCALE



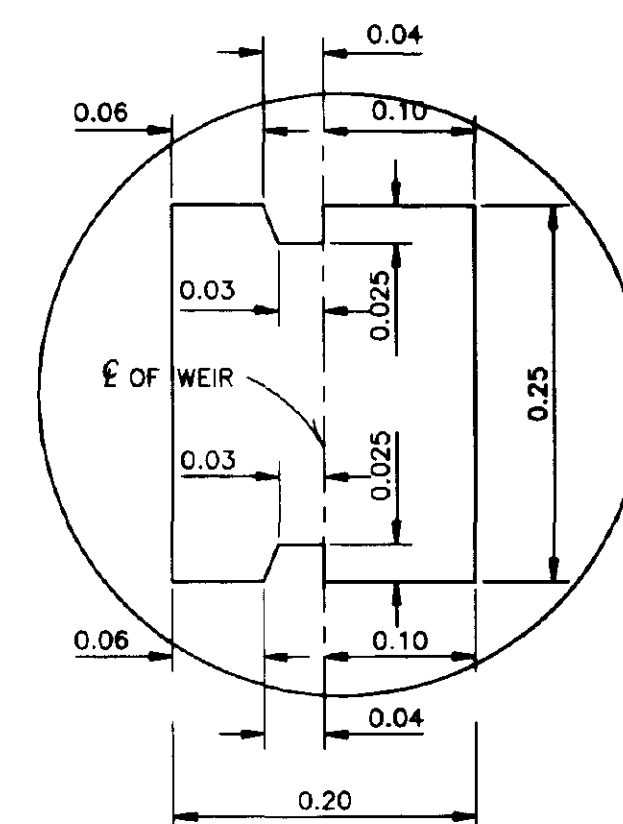
SECTION A-A
NOT TO SCALE



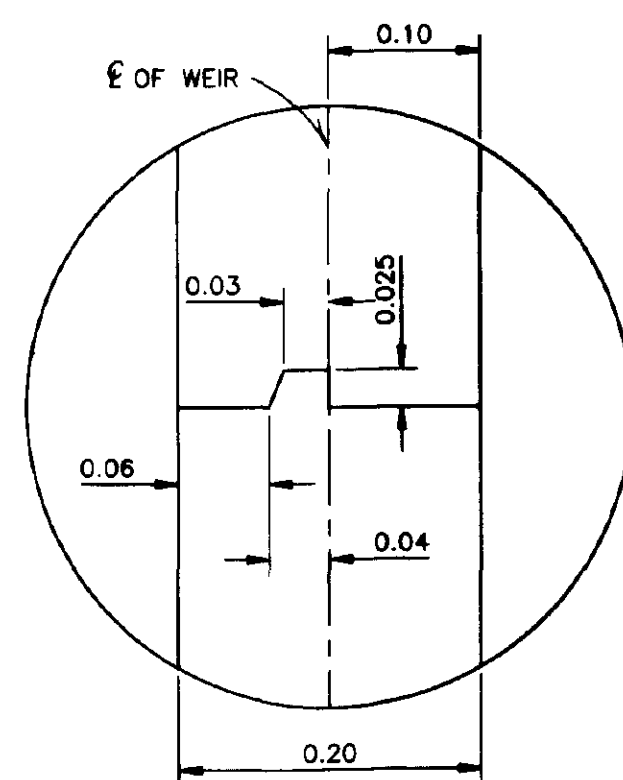
DETAIL "1"
NOT TO SCALE



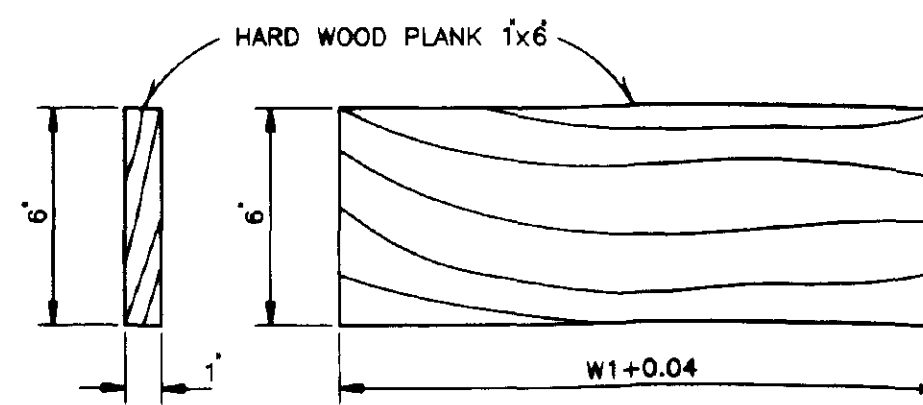
SECTION C-C
NOT TO SCALE



DETAIL "3"
NOT TO SCALE



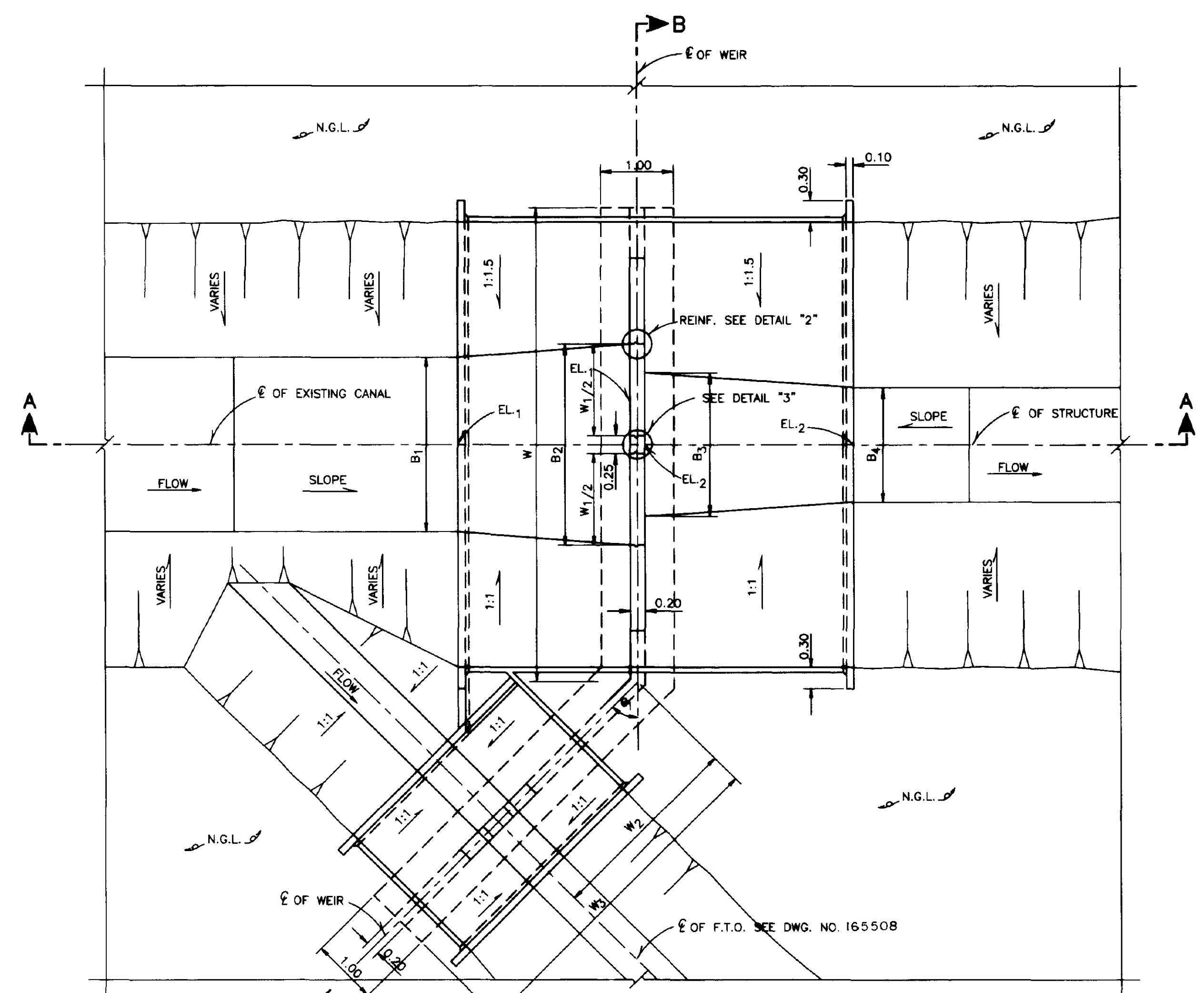
DETAIL "2"
NOT TO SCALE



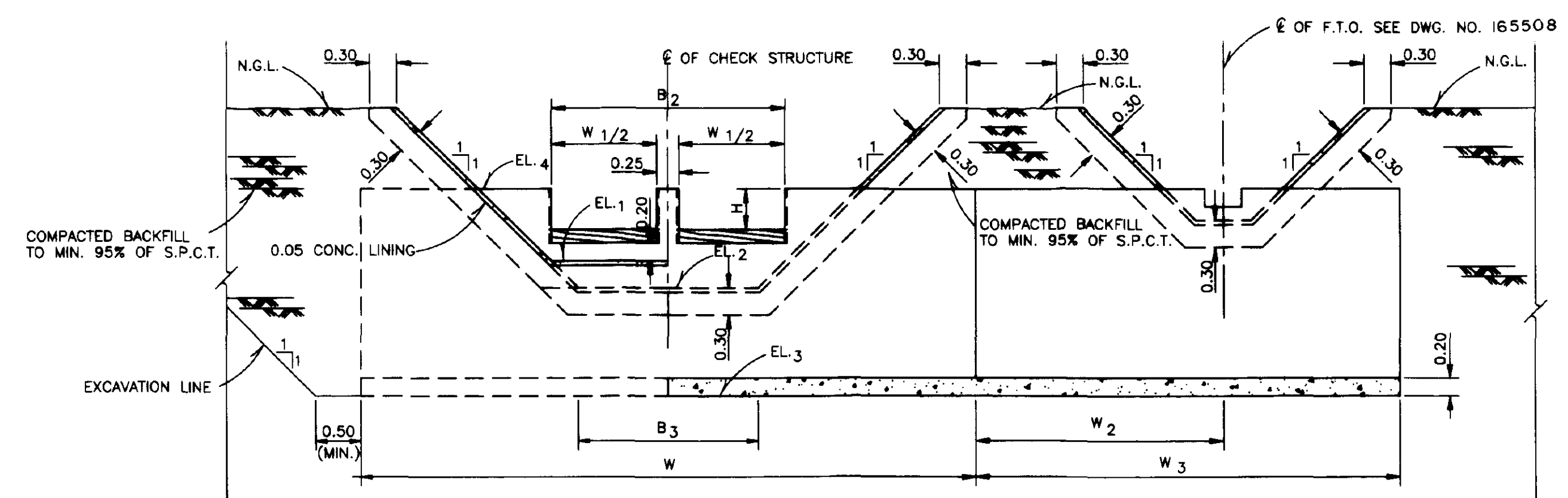
STOPLOG DETAIL
NOT TO SCALE

TABLE OF FIXED DIMENSIONS

STR. NO.	Q(MAX.) cms.	H m.	W ₁ m.	L ₁ m.	L ₂ m.
1	0.20	0.35	1.20	2.00	2.50
2	0.30	0.35	1.80	2.00	2.50
3	0.40	0.35	2.40	2.00	2.50
4	0.50	0.35	3.00	2.00	2.50
5	0.60	0.40	2.60	2.50	3.00
6	0.70	0.40	3.00	2.50	3.00
7	0.80	0.40	3.50	2.50	3.00
8	0.90	0.40	3.90	2.50	3.00
9	1.00	0.40	4.30	2.50	3.00
10	1.10	0.40	4.80	2.50	3.00
11	1.20	0.40	5.20	2.50	3.00



PLAN TYPE A-1
NOT TO SCALE



SECTION B-B
NOT TO SCALE

NOTES

1. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN THE FIELD

REFERENCE DRAWING

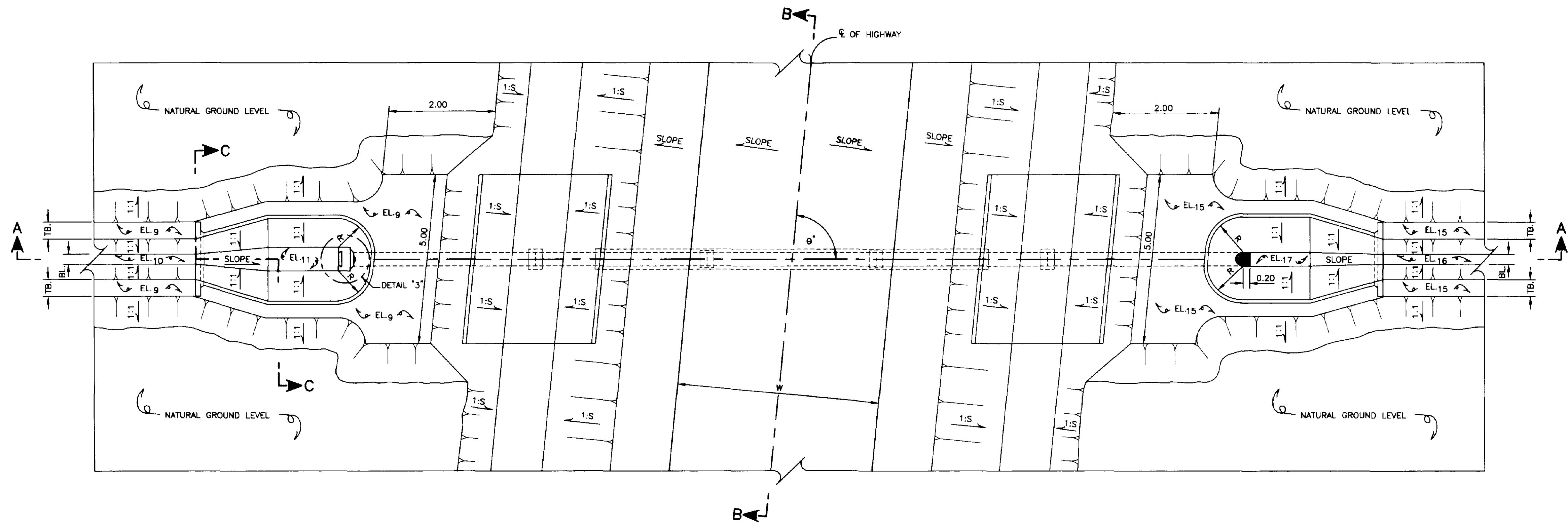
1. LEGEND AND ABBREVIATION _____ DWG. NO. 165500
2. GENERAL NOTES _____ DWG. NO. 165501

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL CHECK STRUCTURE TYPE A,A-1
FOR EXISTING CANAL
PLAN, SECTION AND DETAILS

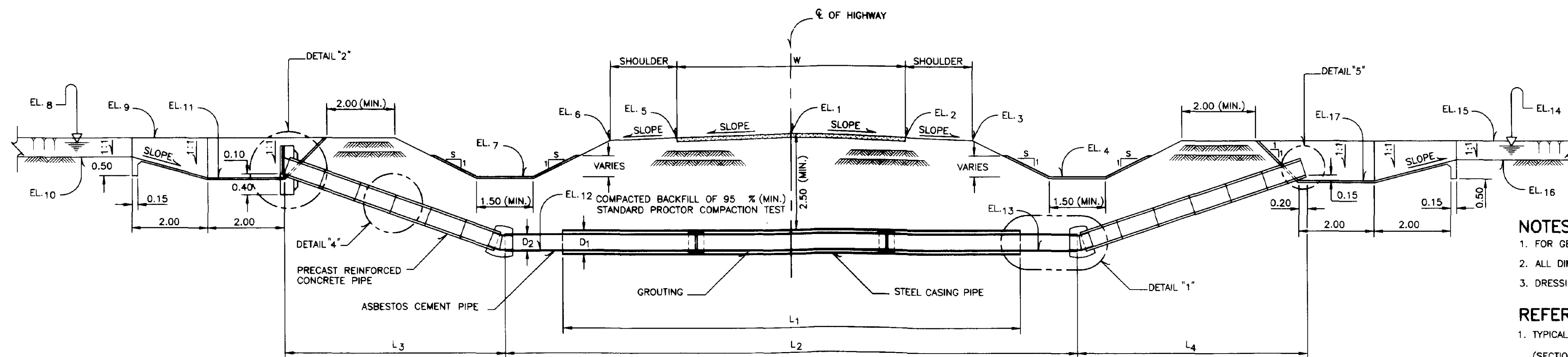
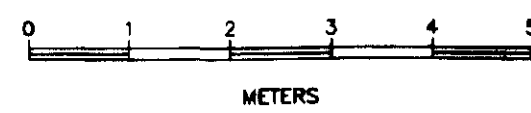
DESIGNED	W. N. N. N. N.	SUBMITTED	N. N. N. N. N.	CS.
DRAWN	W. N. N. N. N.	REVIEWED	N. N. N. N. N.	DDD.
TRACED	N. N. N. N. N.	RECOMMENDED	N. N. N. N. N.	Dir. OEDA
CHECKED	N. N. N. N. N.	APPROVED	N. N. N. N. N.	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM. APPROVED

OFFICE OF ENGINEERING DESIGN & ARCHITECTURE
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH
DATE

165515



PLAN
NOT TO SCALE



SECTION A-A
NOT TO SCALE

NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO..... DWG.NO.165500,165501
2. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS OTHERWISE SHOWN.
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWING

1. TYPICAL HIGHWAY CULVERT IN DITCH .
(SECTIONS AND DETAILS).....DWG.NO.165519
2. TYPICAL REINFORCEMENT PRECAST CONCRETE PIPE..... **มรพ.**-2-002

ROYAL IRRIGATION DEPARTMENT

ON-FARM IRRIGATION SYSTEM

TYPICAL HIGHWAY CULVERT IN DITCH

PLAN AND SECTIONS

DESIGNED	Padmaja Sank, Padmashri, Manoj	SUBMITTED	Yashwanth Chitturam	CS.
DRAWN	Manoj	REVIEWED	B. O. T. S. R.	DDD.
TRACED	Manoj	RECOMMENDED	Sawade	Dir. OEDA
CHECKED	Yashwanth Chitturam	APPROVED	Sawade	DG.

							BRANCH	Manoah	REVIEWED	<i>[Signature]</i>	DD.
							TRACED	Manoah	RECOMMENDED	<i>[Signature]</i>	Dir. OEDA
							CHECKED	<i>[Signature]</i>	APPROVED	<i>[Signature]</i>	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH		5.11.1942 DATE	165517	

Diagram illustrating the cross-section of a trench for backfilling. The trench is 2.50 (MIN) deep. The backfill is labeled "COMPACTED BACKFILL OF 95% (MIN) STANDARD PROCTER COMPACTION TEST". The top of the trench is at "EL. 1". The trench is lined with "ASBESTOS CEMENT PIPE" and surrounded by "STEEL CASING PIPE" and "GROUTING".

CEMENT MORTAR (1:3)

1-9Y TRASHRACK 4-9HB

EL. 17

CONC

0.20

0.13

0.02

0.10

0.05

0.15

0.20

F

PRECAST REINFORCED CONCRETE PIPE

[illegible]

1:3 CEMENT MORTAR

3-6Y

6B 0.15

PRECAST REINFORCED CONCRETE PIPE

0.15

0.20

0.075

STEN

ANCHOR BOLT AND HEX. NUT 0.125 IN FIELD IF NEEDED

80.0

20.0

0.04

20.0

0.006

K

0.04

E

I

9 AND BEND
Y

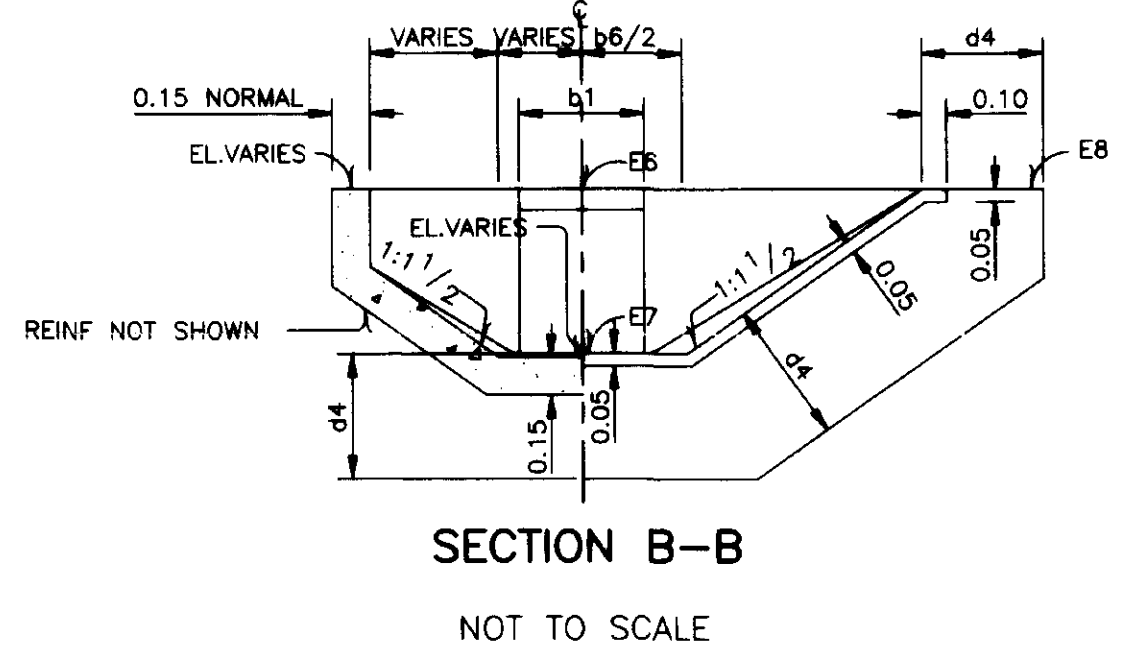
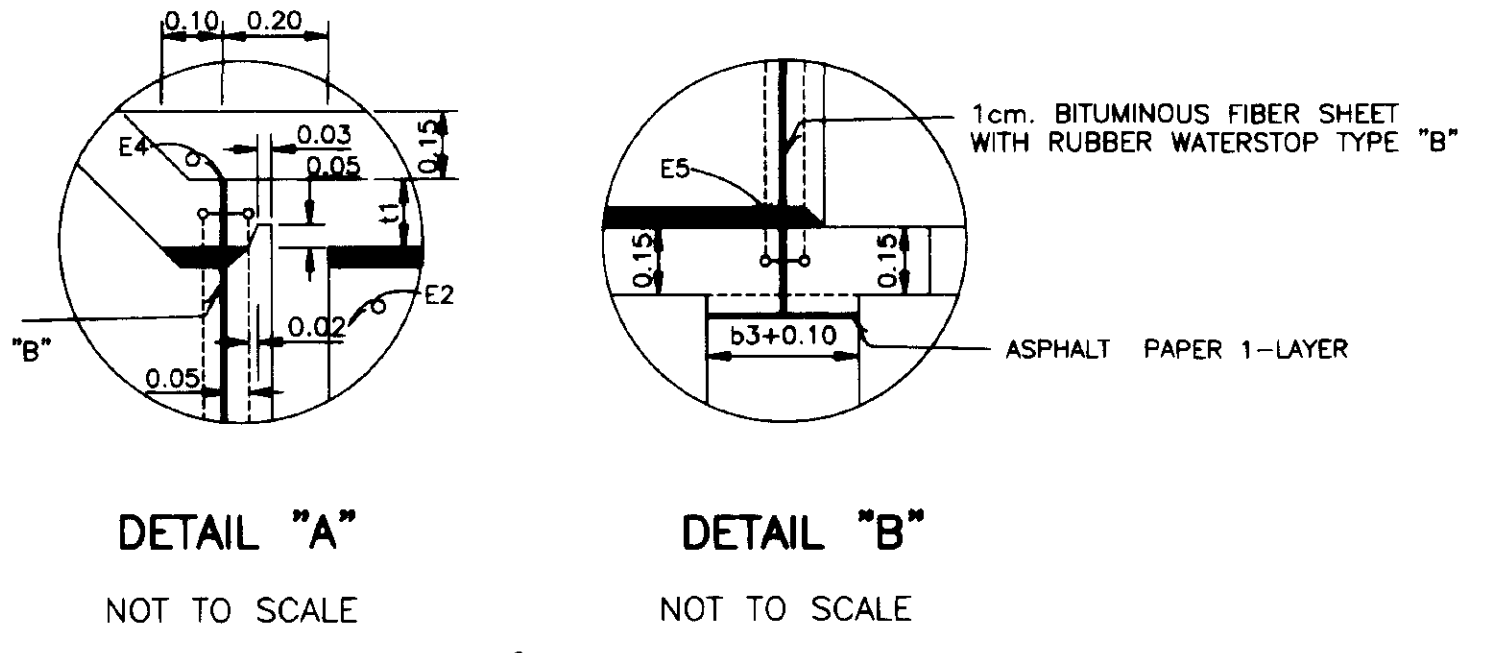
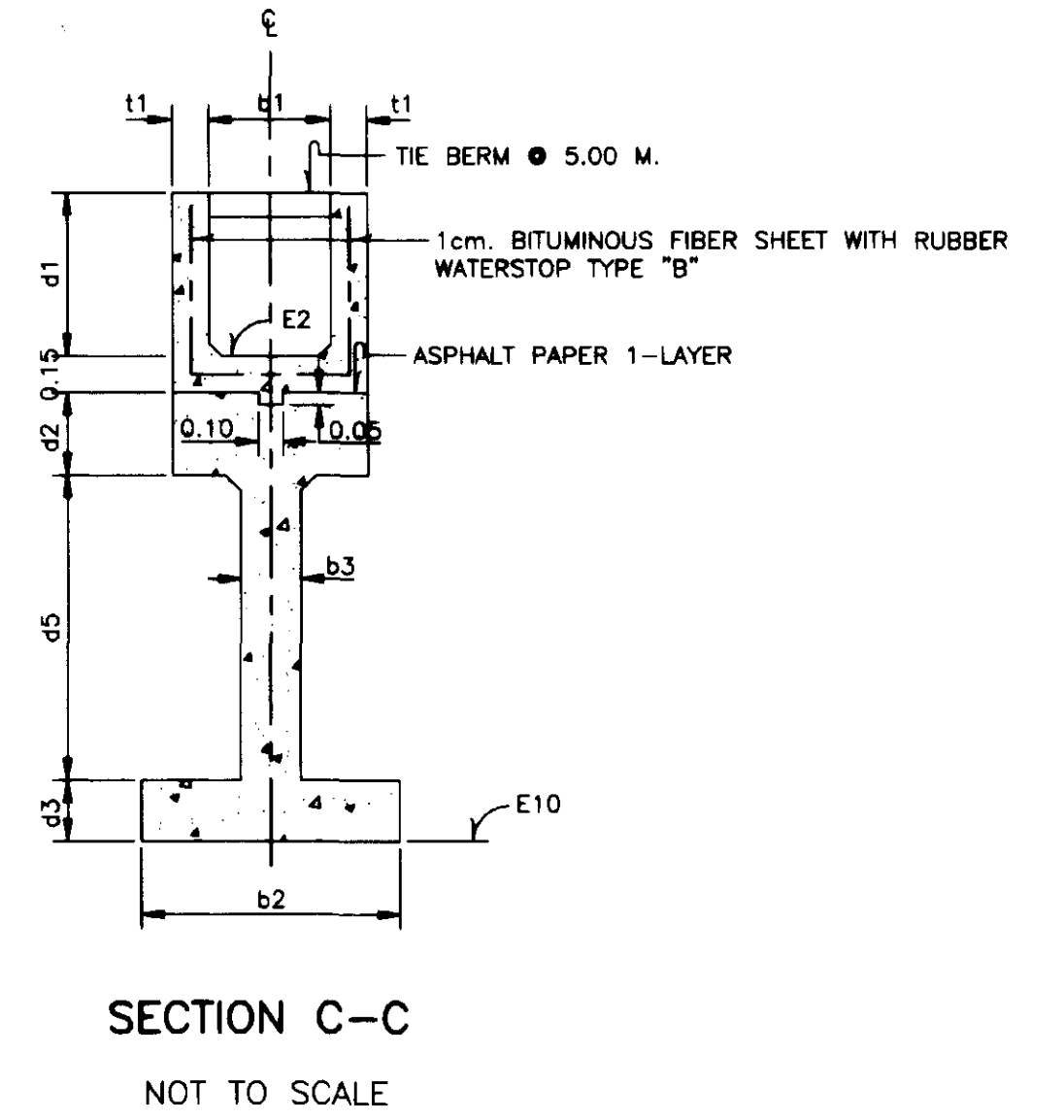
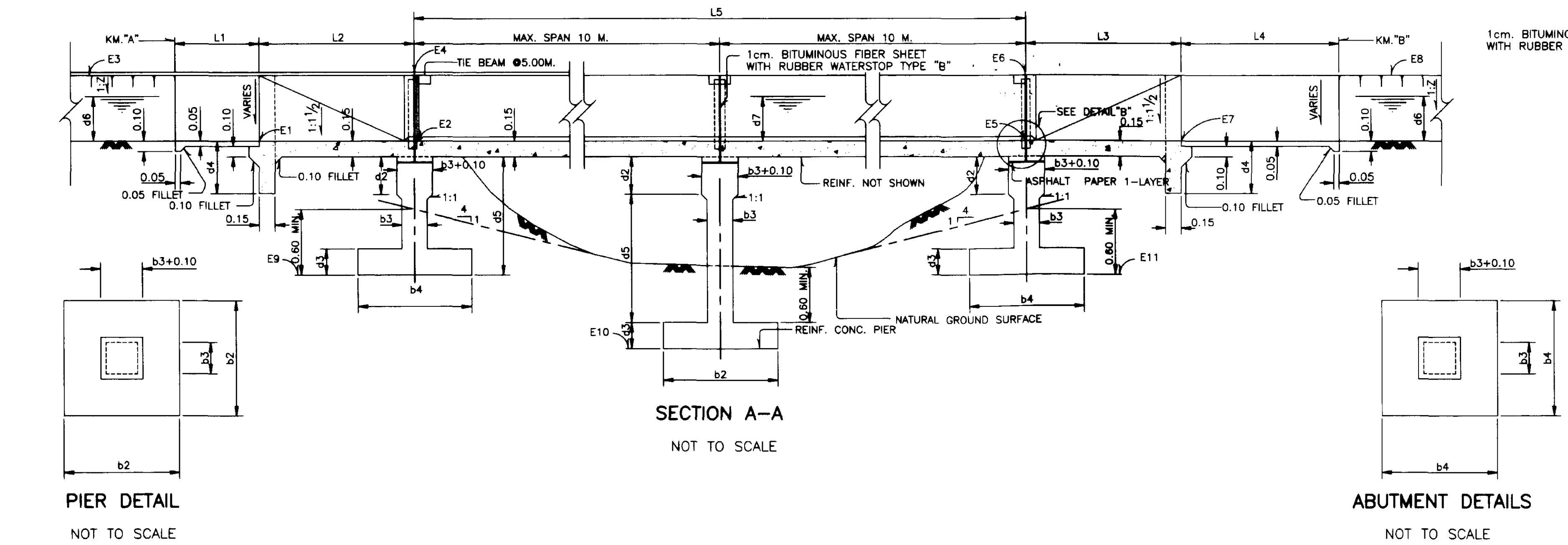
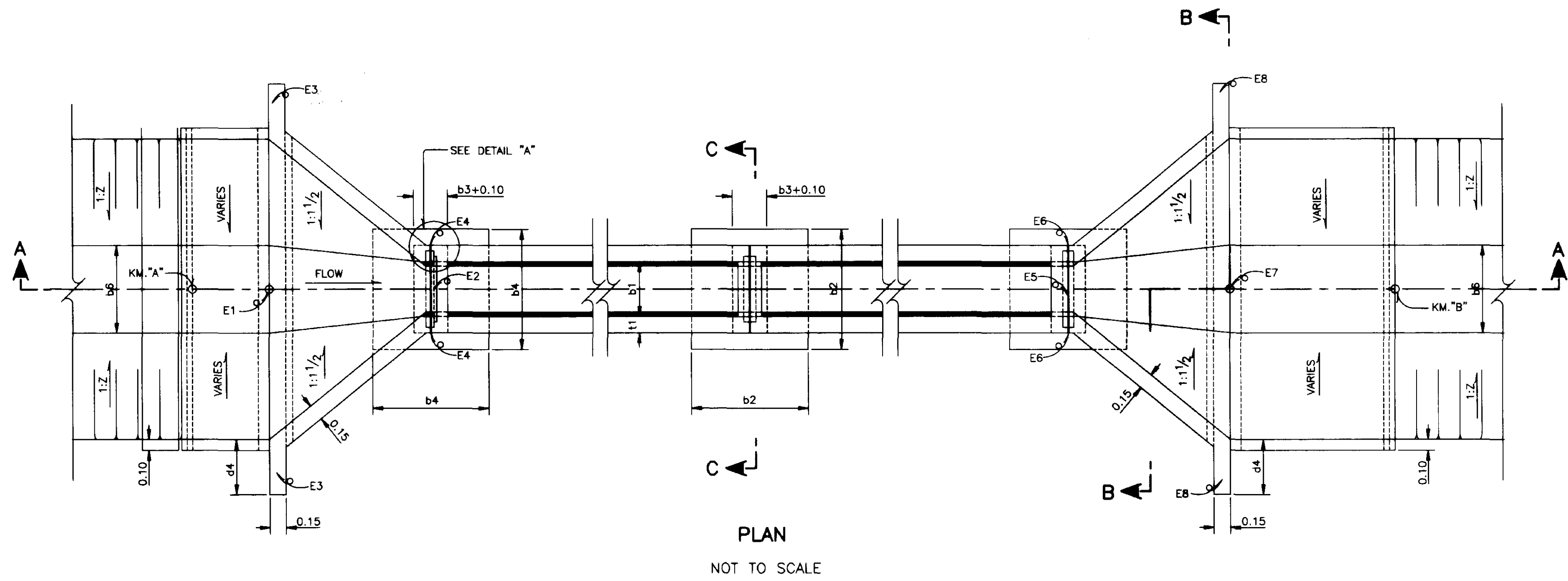
TRASHRACK

STEEL PLATE 0.006

ANCHOR BOLT M 0.009 AND HEX. NUT 0.125 LONG. BEND IN FIELD IF NECESSARY

0.08
0.02
0.04
0.02
0.09

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

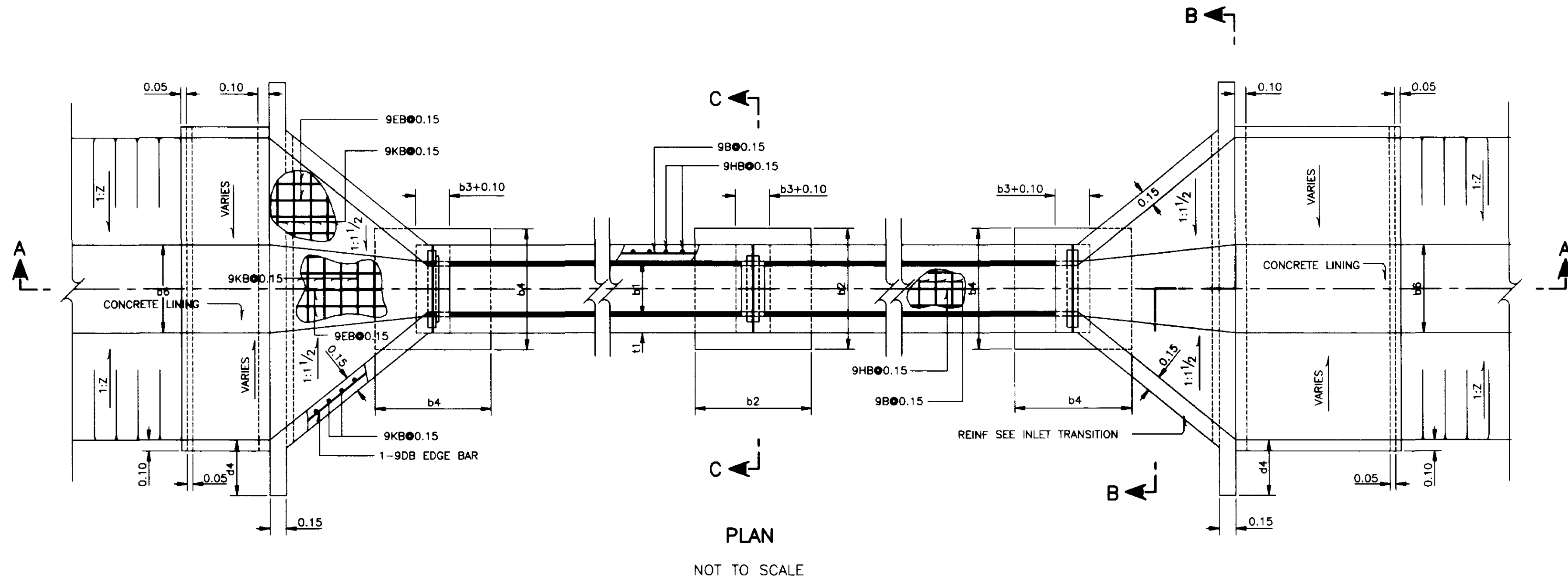
- 1. FOR GENERAL NOTES AND LEGEND REFER TO DWG.NO.165500,165501
- 2. DESIGNED BEDSLOPE OF FLUMES EQUAL TO 0.002-0.0002
- 3. ALLOWABLE BEARING CAPACITY OF FOUNDATION SOIL NOT LESS THAN 10 TON/M.²
- 4. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD

REFERENCE DRAWING

- 1. TYPICAL ELEVATED FLUME (PLAN, SECTIONS AND REINFORCEMENT) DWG.NO.165521
- 2. TYPICAL ELEVATED FLUME (FOOTINGS OF ELEVATED FLUME) DWG.NO.165522

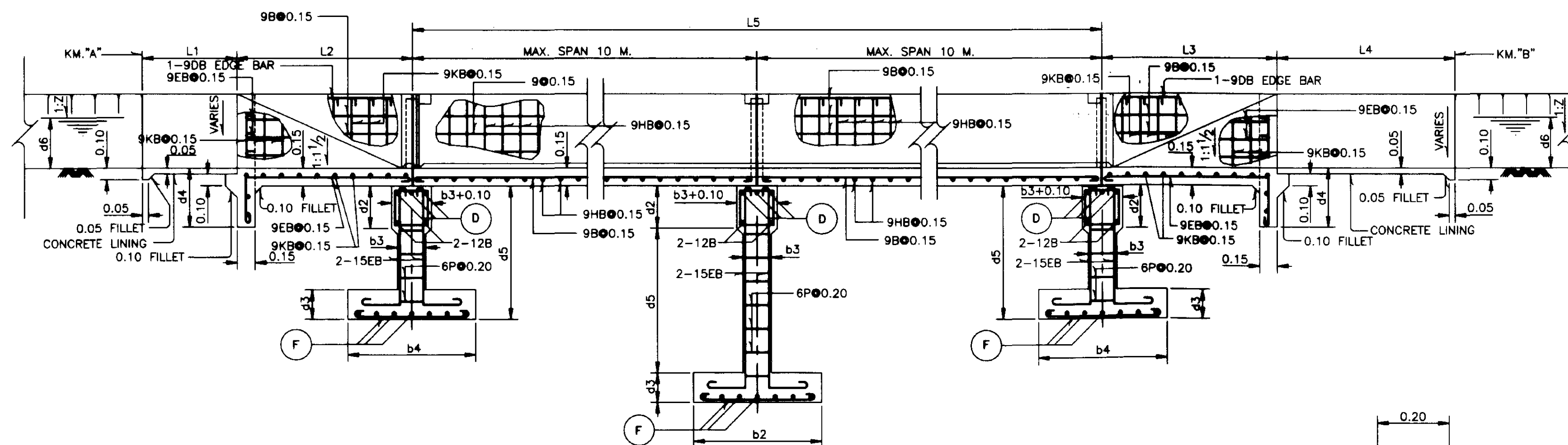
ELEVATED FLUME TYPE	SPAN OF FLUME (M.)	FLUME AND PIER DIMENSIONS (CM.)							ABUTMENT DIMENSIONS (CM.)	TRANSITION (M.)					REMARKS
		t1	b1	b2	b3	d1	d2	d3	d5=1.00,1.50,2.00M.	L1	L2	L3	L4	d4	
									b4						
EF-1-1	5	15	30	80	20	65	25	20	80	0.50	1.50	2.00	1.00	0.30	
EF-1-2	10	20	30	110	25	65	40	25	110	0.50	1.50	2.00	1.00	0.30	
EF-2-1	5	15	50	80	20	65	25	20	80	0.80	1.80	2.20	1.50	0.40	
EF-2-2	10	20	50	120	25	65	40	25	120	0.80	1.80	2.20	1.50	0.40	
EF-3-1	5	15	60	90	20	75	30	20	90	0.80	2.20	2.75	1.50	0.50	
EF-3-2	10	20	60	130	25	75	45	25	130	0.80	2.20	2.75	1.50	0.50	
EF-4-1	5	15	80	90	20	75	30	20	90	1.00	2.45	3.00	2.00	0.50	
EF-4-2	10	20	80	140	25	75	50	30	140	1.00	2.45	3.00	2.00	0.50	

ROYAL IRRIGATION DEPARTMENT										
ON-FARM IRRIGATION SYSTEM										
TYPICAL ELEVATED FLUME										
PLAN, SECTIONS AND DETAILS										
DESIGNED	Pamphade, Pashan, Sule				SUBMITTED	Mullana, Shivarant				CS.
DRAWN	Pamphade				REVIEWED	B. D. T. S.				DDD.
TRACED	Pamphade				RECOMMENDED	Sawade				Dir.OEDA.
CHECKED	Mullana, Shivarant				APPROVED	Sawade, J.				DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE	5.11.42	165519	
							ON-FARM IRRIGATION SYSTEM DESIGN BRANCH	DATE		

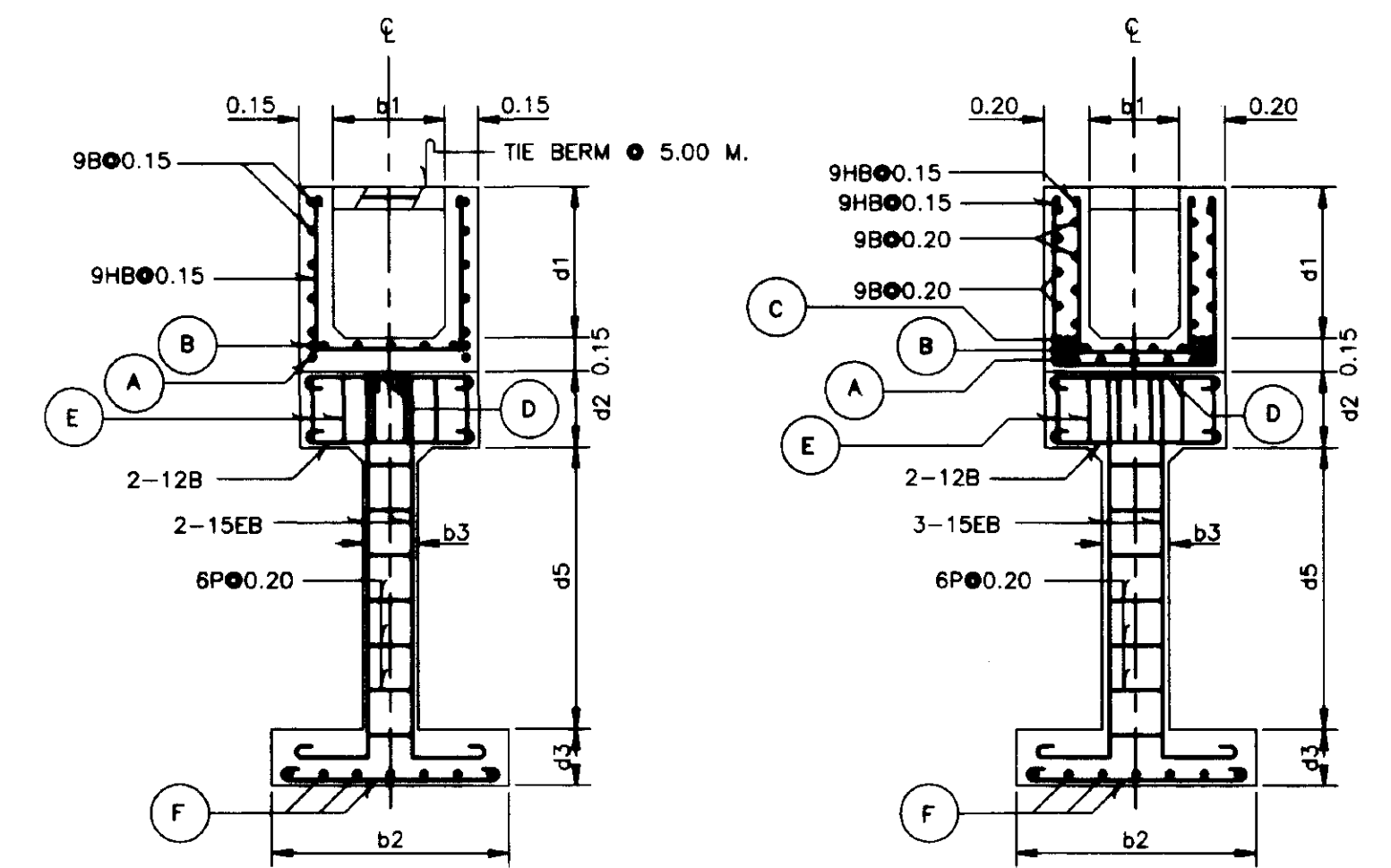


PLAN

NOT TO SCALE



SECTION A-A
NOT TO SCALE



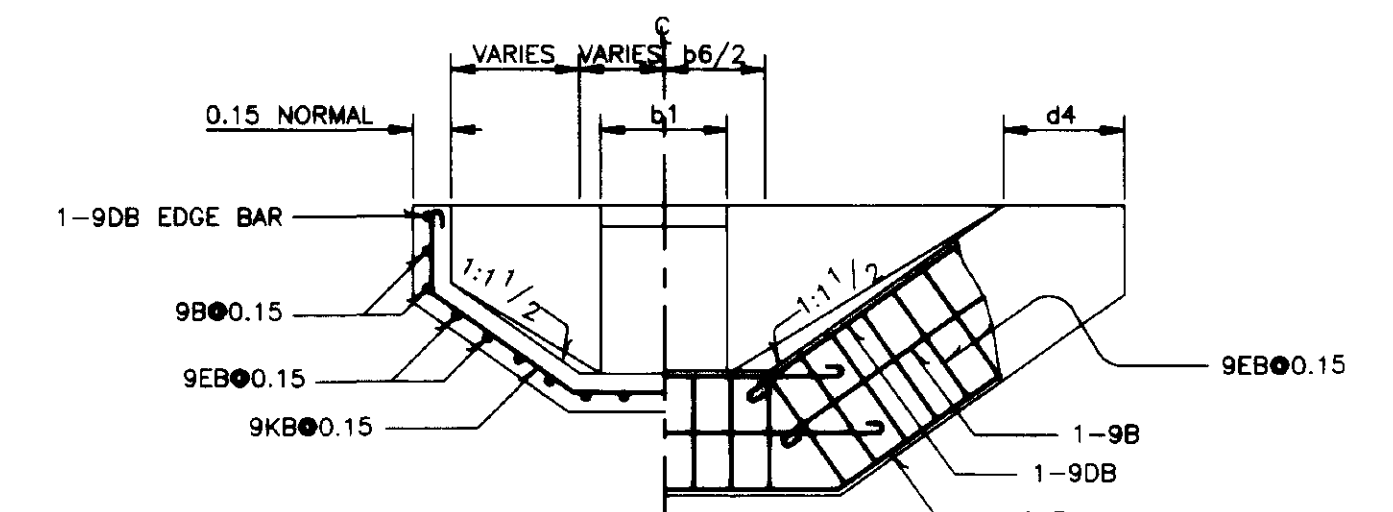
SECTION C-C

(SPAN 5.00 M.)
NOT TO SCALE

SECTION C-C

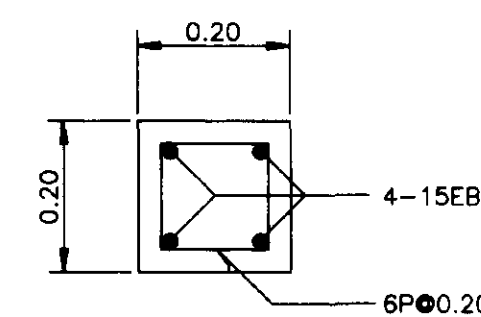
(SPAN 10.00 M.)

NOT TO SCALE



SECTION B-B

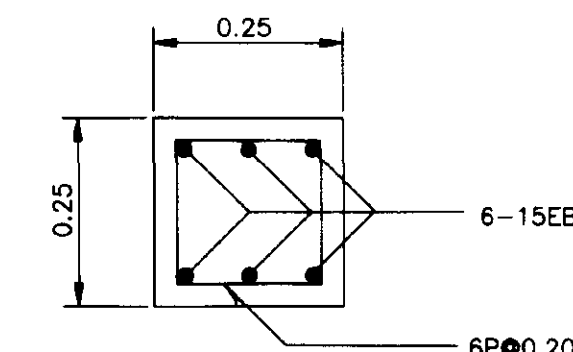
NOT TO SCALE



COLUMN SECTION

SIZE 0.20x0.20

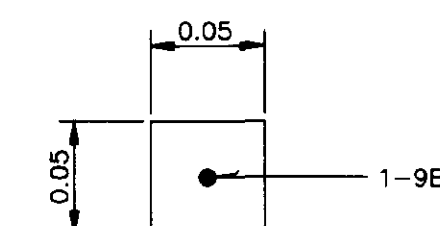
NOT TO SCALE



COLUMN SECTION

SIZE 0.25x0.25

NOT TO SCALE



TIE BEAM SECTION

NOT TO SCALE

ELEVATED FLUME TYPE	STEEL REINFORCEMENTS							REMARKS
	SPAN (M.)	A	B	C	D	E	F	
EF-1-1	5	1-12B	1-9B	-	4-9B	6P0.10	(7+7)-9B	
EF-1-2	10	3-12B	3-12B	2-12B	2-12+3-9B	6P0.10	(7+7)-12B	
EF-2-1	5	1-12B	1-12B	-	2-12+2-9B	6P0.10	(7+7)-9B	
EF-2-2	10	2-15B	2-15B	2-15B	5-12B	9P0.15	(8+8)-12B	
EF-3-1	5	1-15B	1-12B	-	4-12B	6P0.12	(8+8)-9B	
EF-3-2	10	3-15B	2-12+1-15B	2-12B	1-15+4-12B	9P0.15	(10+10)-12B	
EF-4-1	5	1-15B	1-12B	-	2-15+2-12B	6P0.12	(9+9)-9B	
EF-4-2	10	3-15B	2-12+1-15B	3-12B	2-15+3-12B	9P0.15	(9+9)-12B	

NOTE

FOR GENERAL NOTES AND LEGAND REFER TO DWG.NO.165500,165501

REFERENCE DRAWING

- | | |
|--|---------------|
| 1. TYPICAL ELEVATED FLUME (PLAN, SECTIONS AND DETAILS) | DWG.NO.165520 |
| 2. TYPICAL ELEVATED FLUME (FOOTINGS OF ELEVATED FLUME) | DWG.NO.165522 |

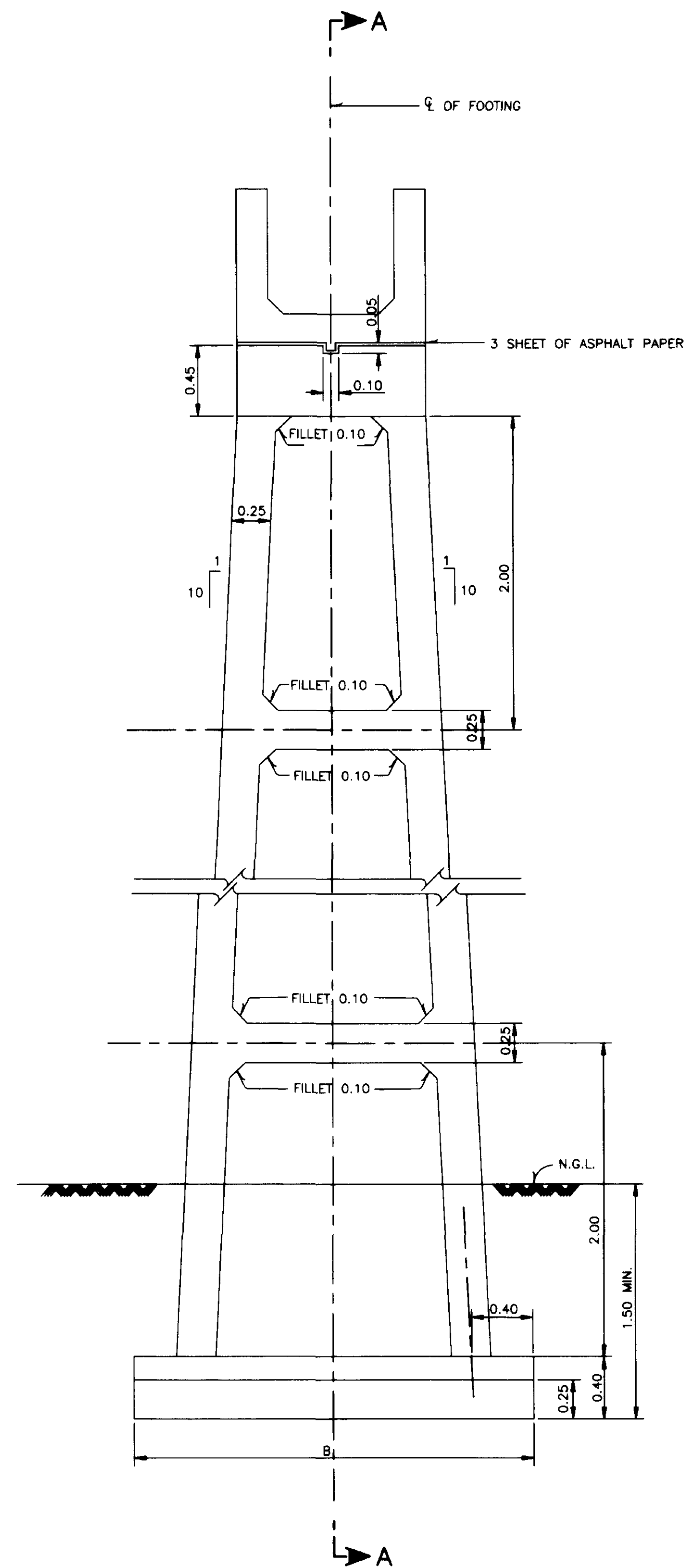
ROYAL IRRIGATION DEPARTMENT

ON-FARM IRRIGATION SYSTEM

TYPICAL ELEVATED FLUME

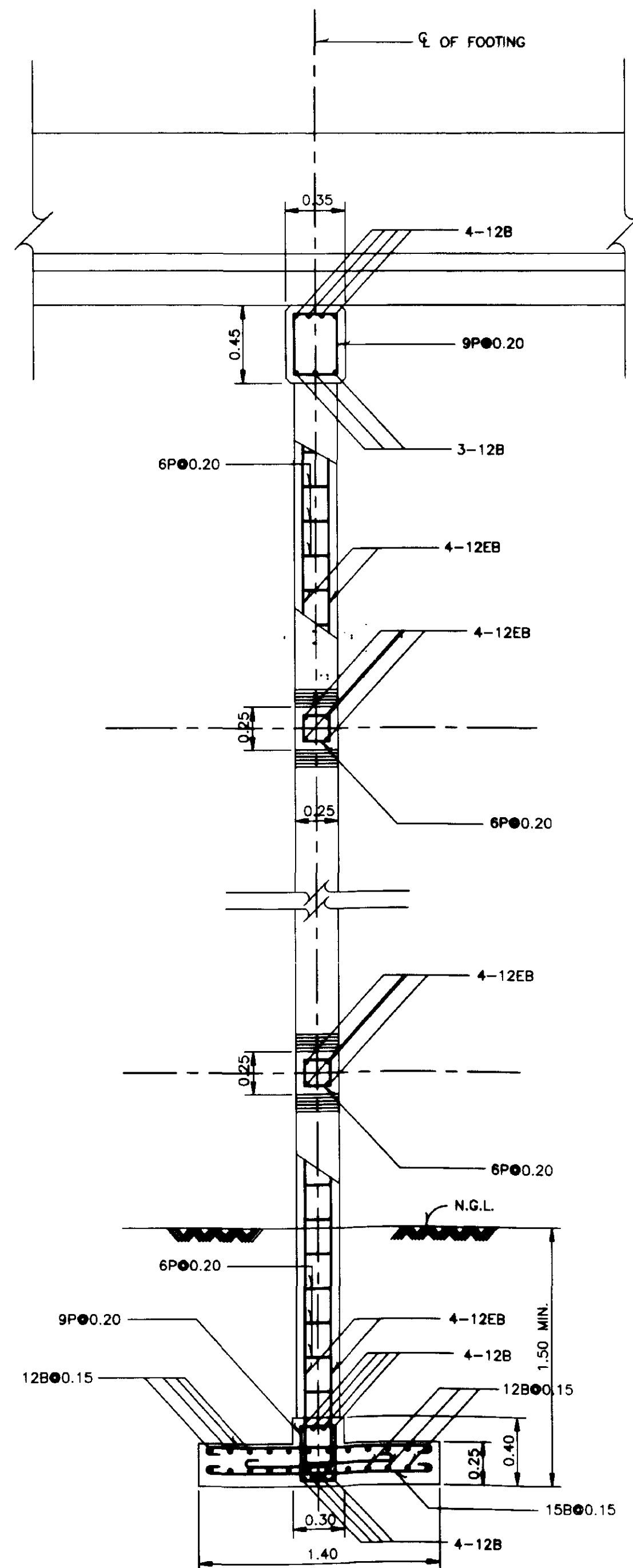
PLAN, SECTIONS AND REINFORCEMENT

							DESIGNED	<i>Radomyski, Paalavi, Sushil</i>	SUBMITTED	<i>Mullana elikavramant</i>	CS.
							DRAWN	<i>Pamandy</i>	REVIEWED	<i>B. G. Tsa.</i>	DDD.
							TRACED	<i>Radomyski</i>	RECOMMENDED	<i>Sawade</i>	Dir.OEDA
							CHECKED	<i>Mullana elikavramant</i>	APPROVED	<i>Sawade for.</i>	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE 5 P.M. 42 ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				DATE _____ 165520



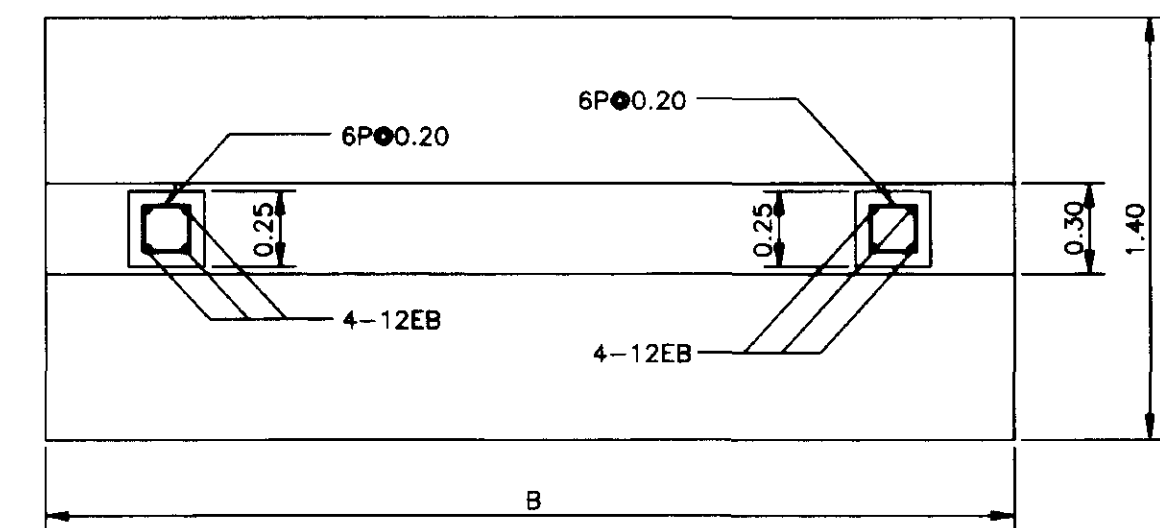
FOOTING OF ELEVATED FLUME

NOT TO SCALE



SECTION A-A

NOT TO SCALE



PLAN OF FOOTING

NOT TO SCALE

NOTES

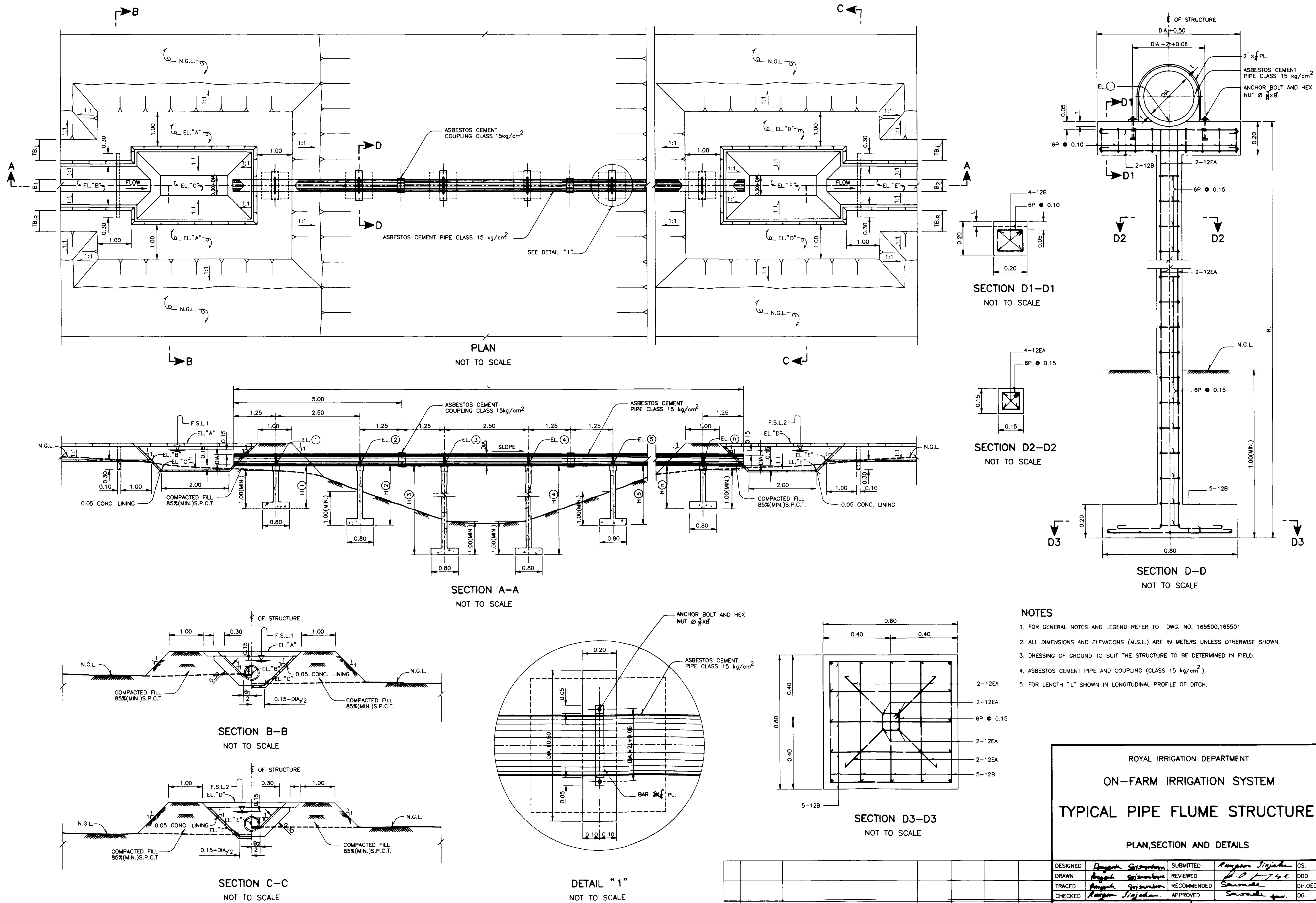
1. FOR GENERAL NOTES AND LEGEND REFER TO DWG. NO. 165500, 165501
2. SOIL BEARING CAPACITY MUST BE LESS THAN 10 TON/M.²

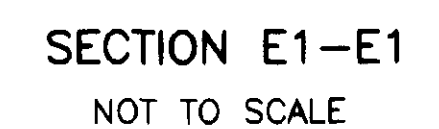
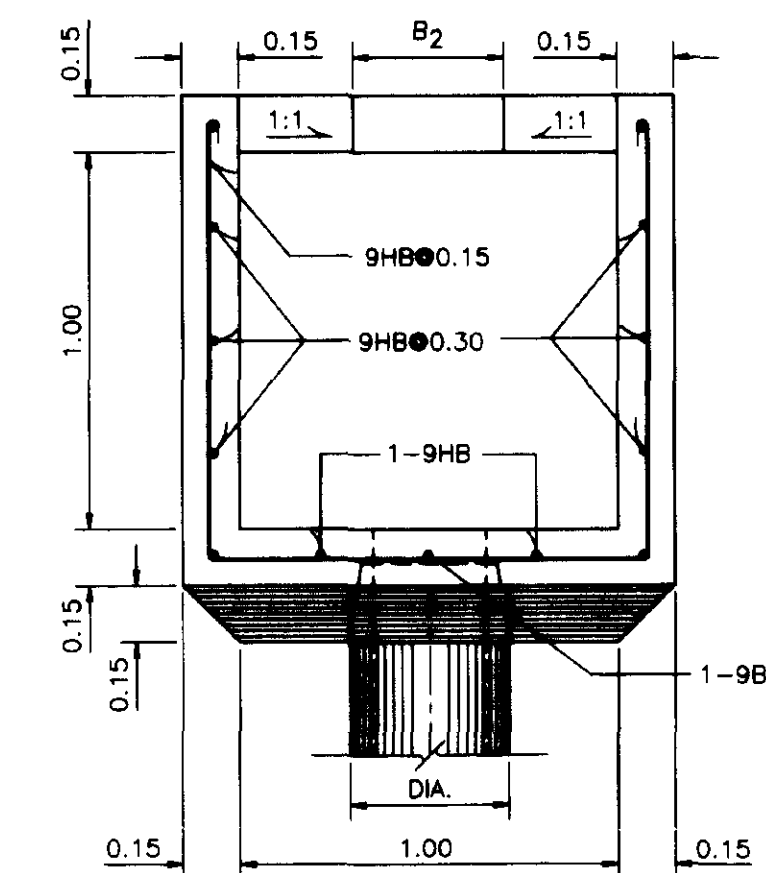
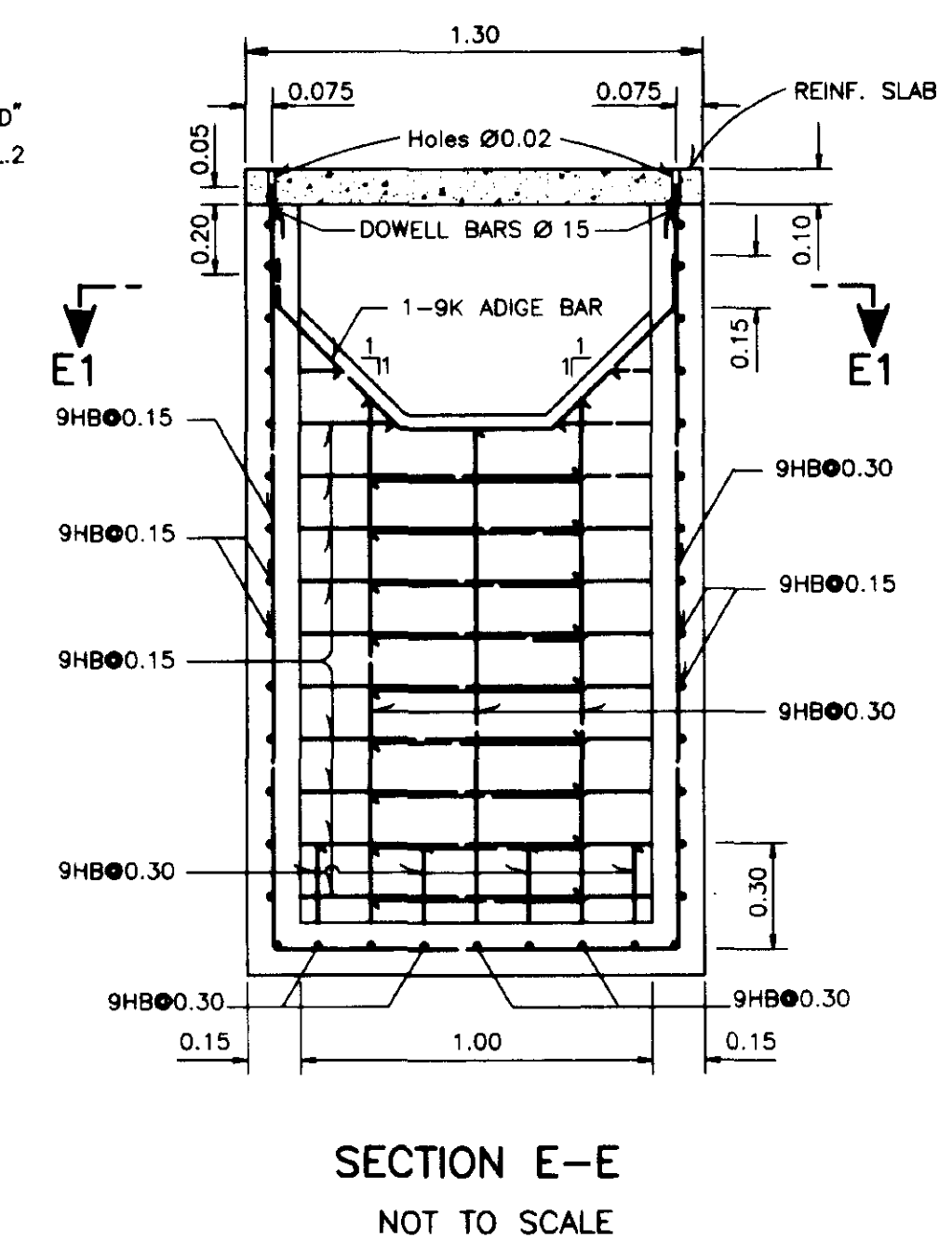
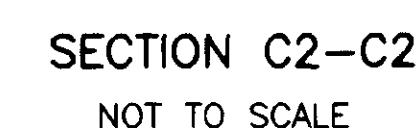
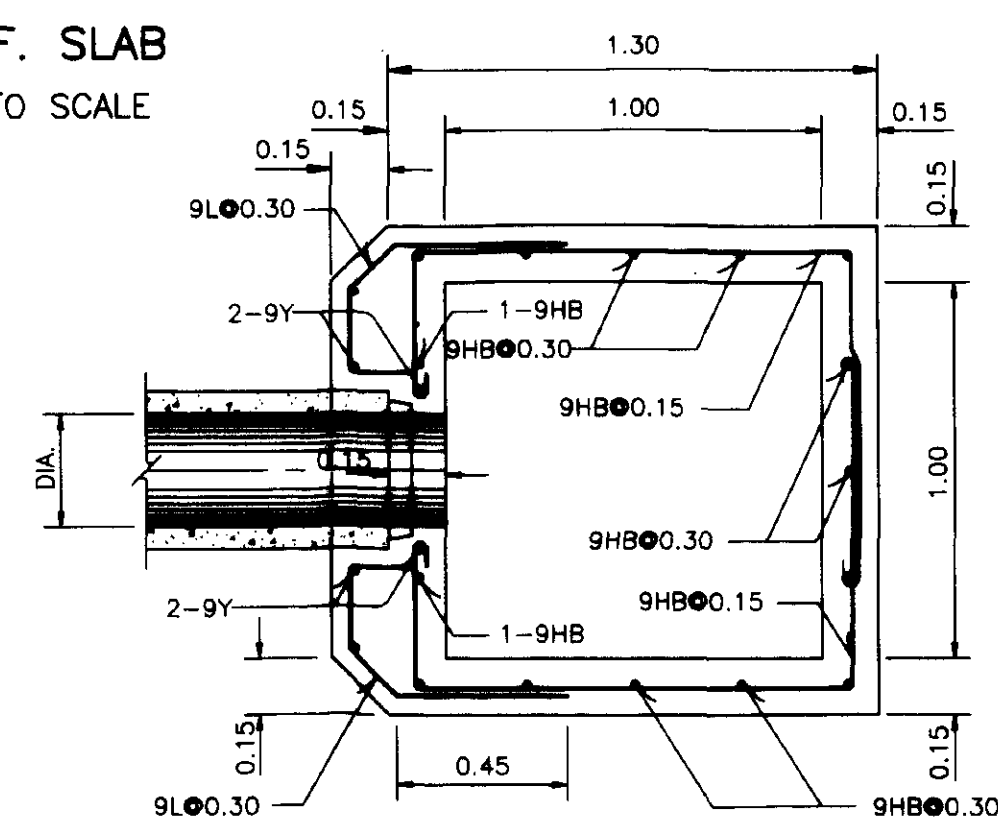
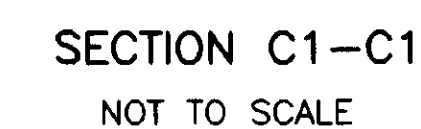
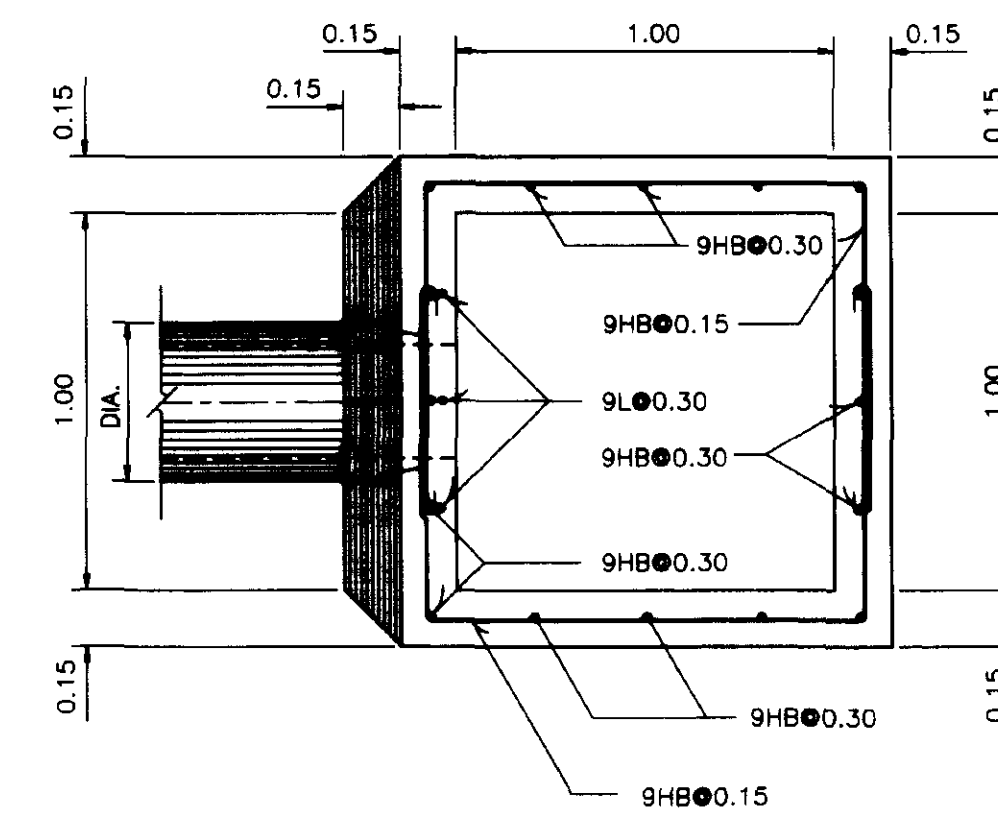
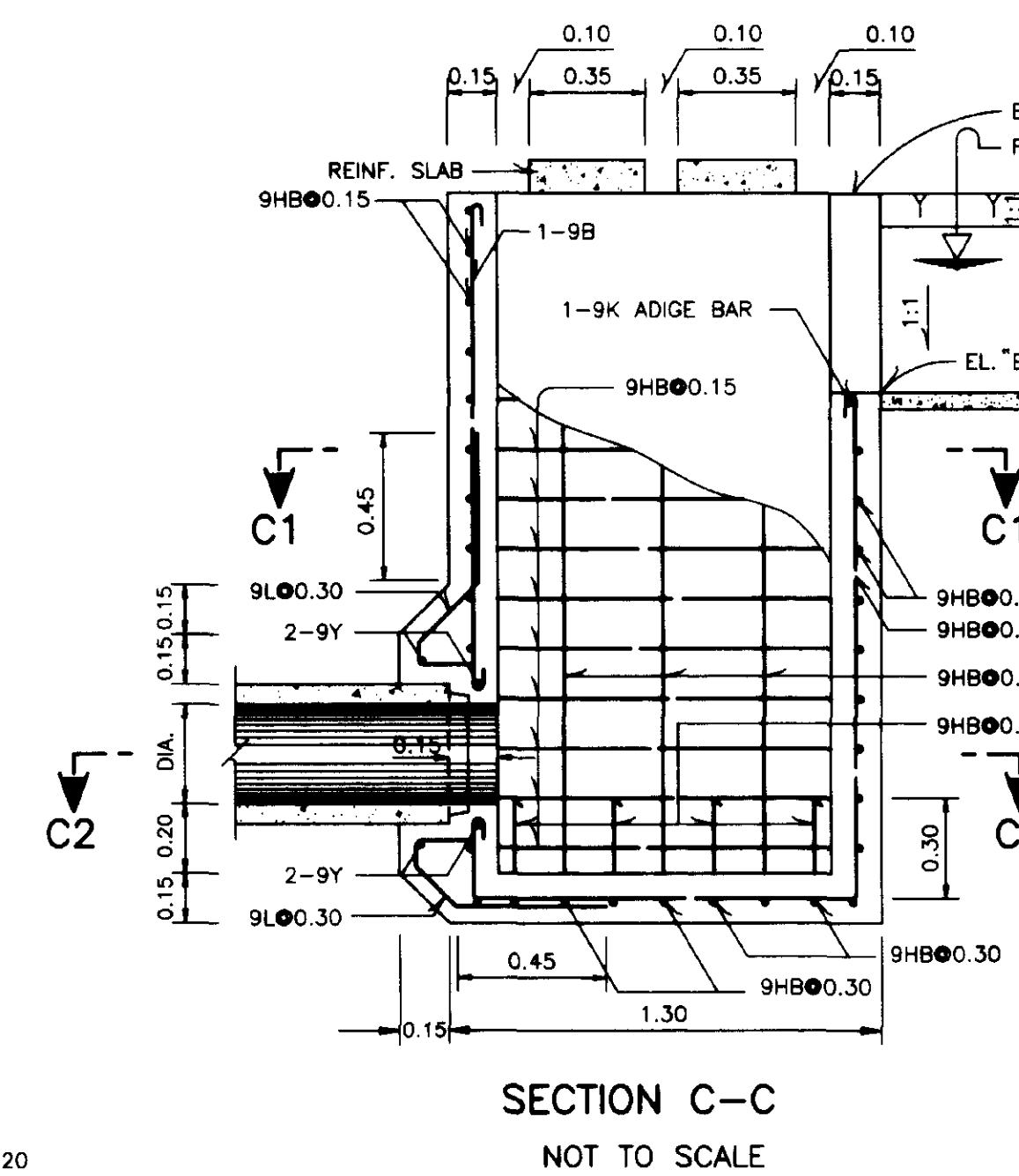
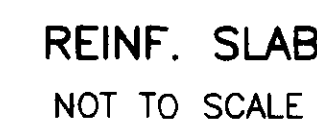
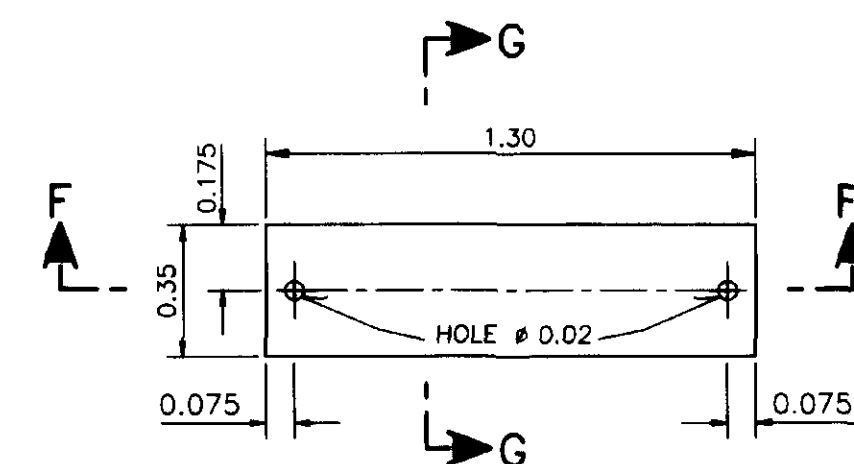
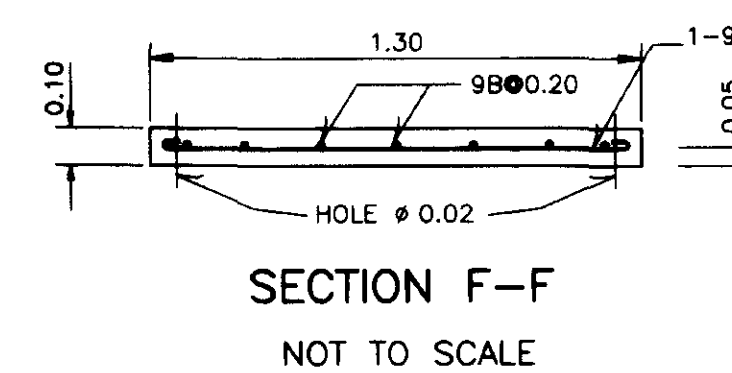
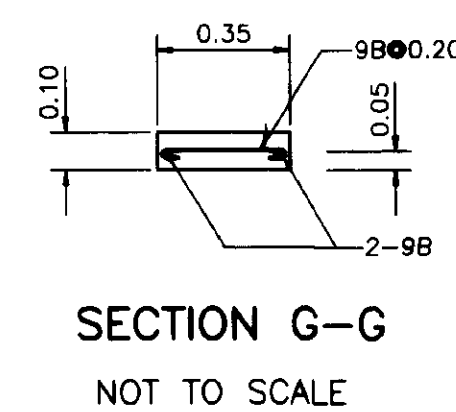
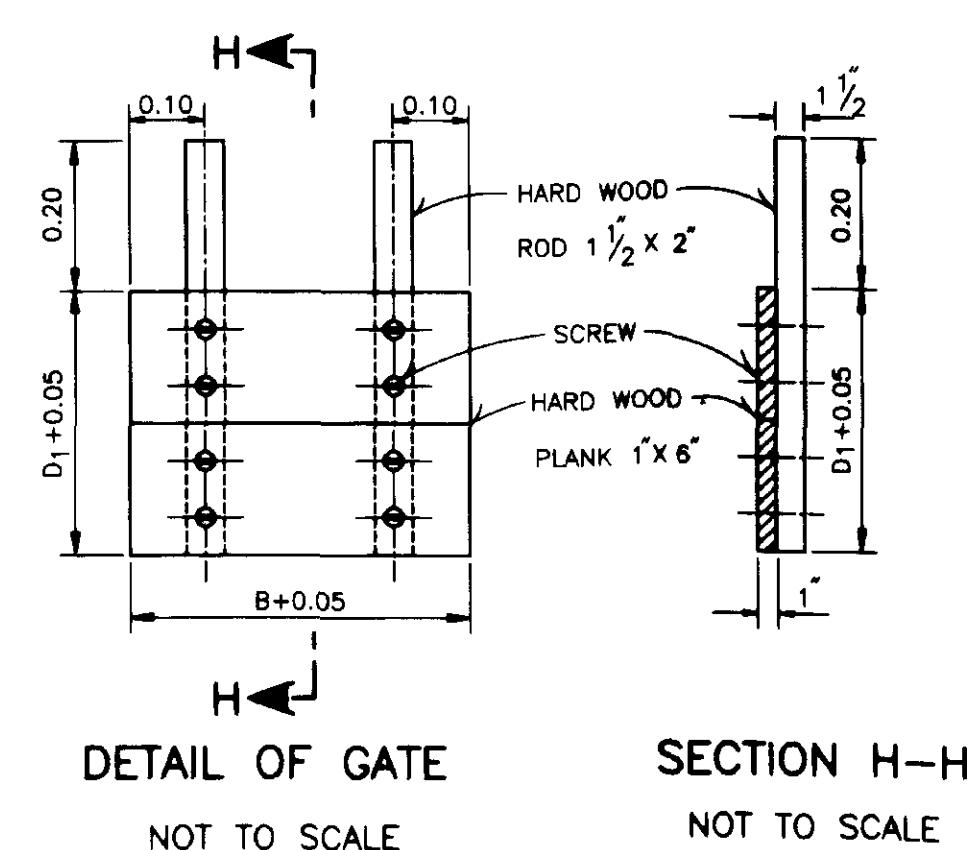
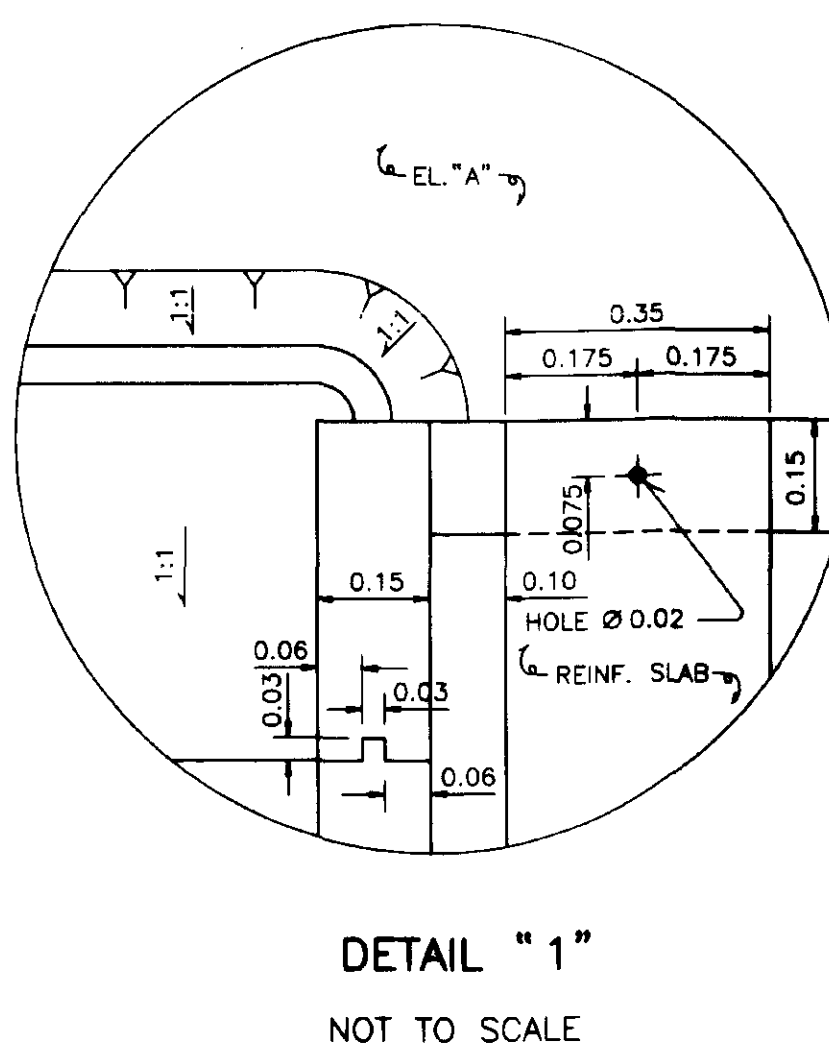
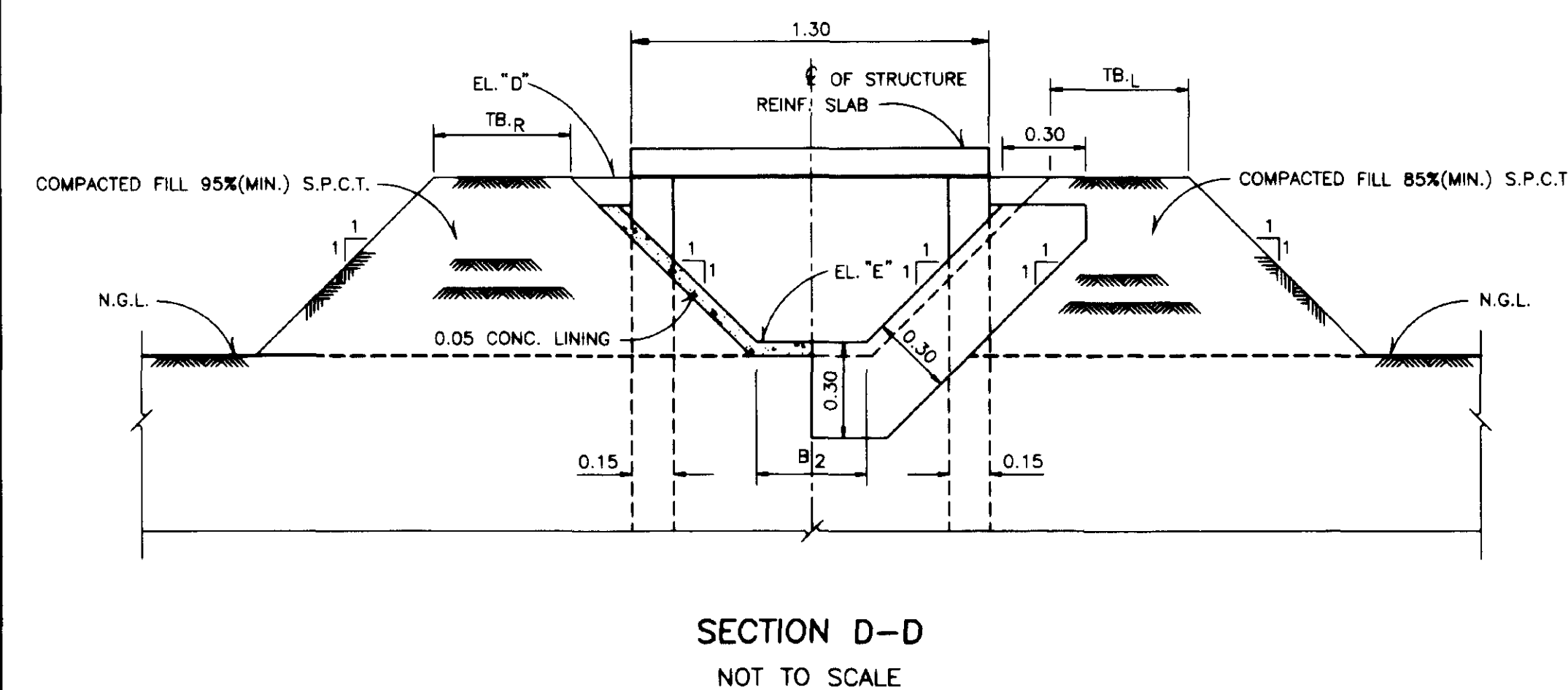
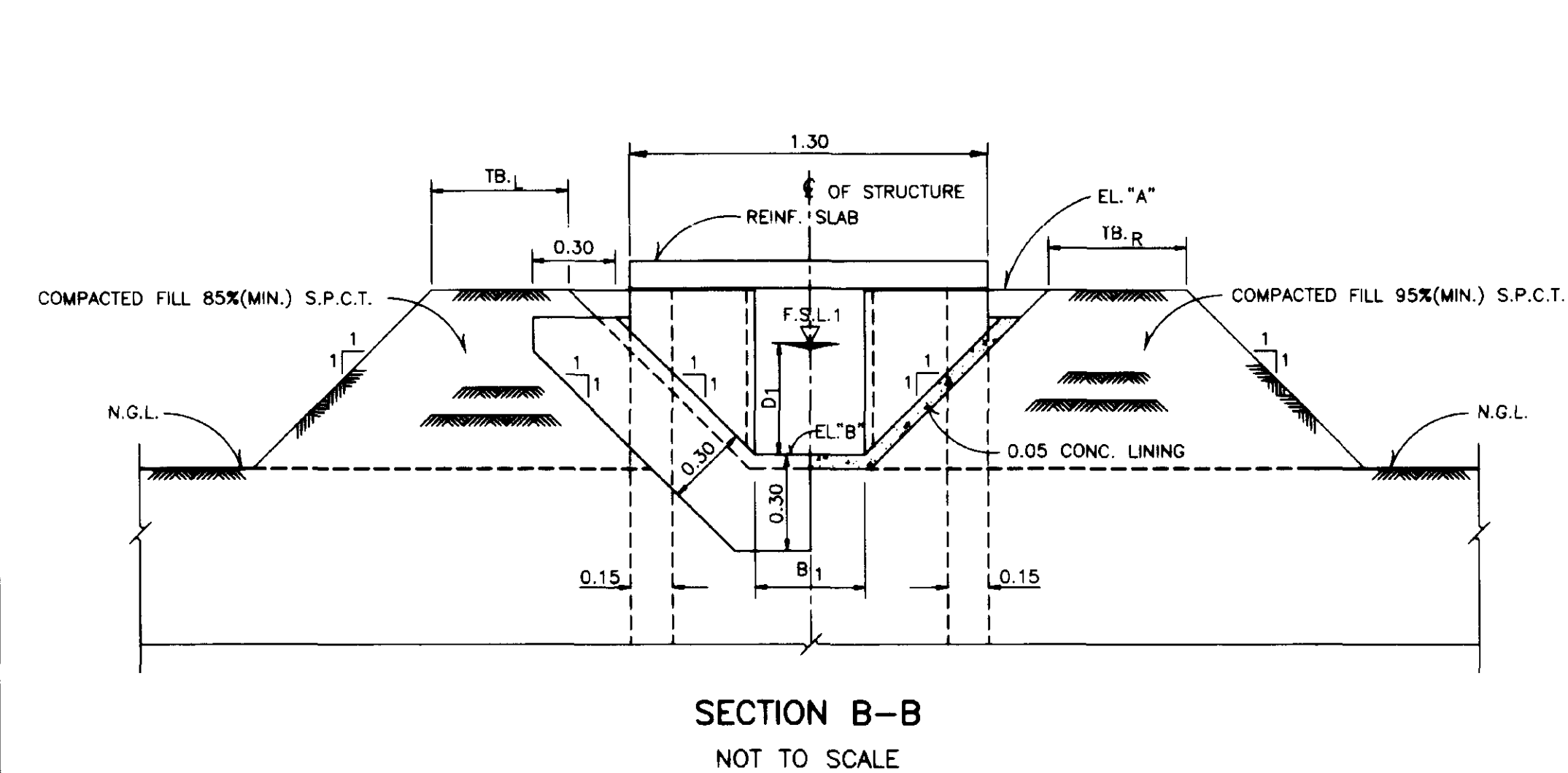
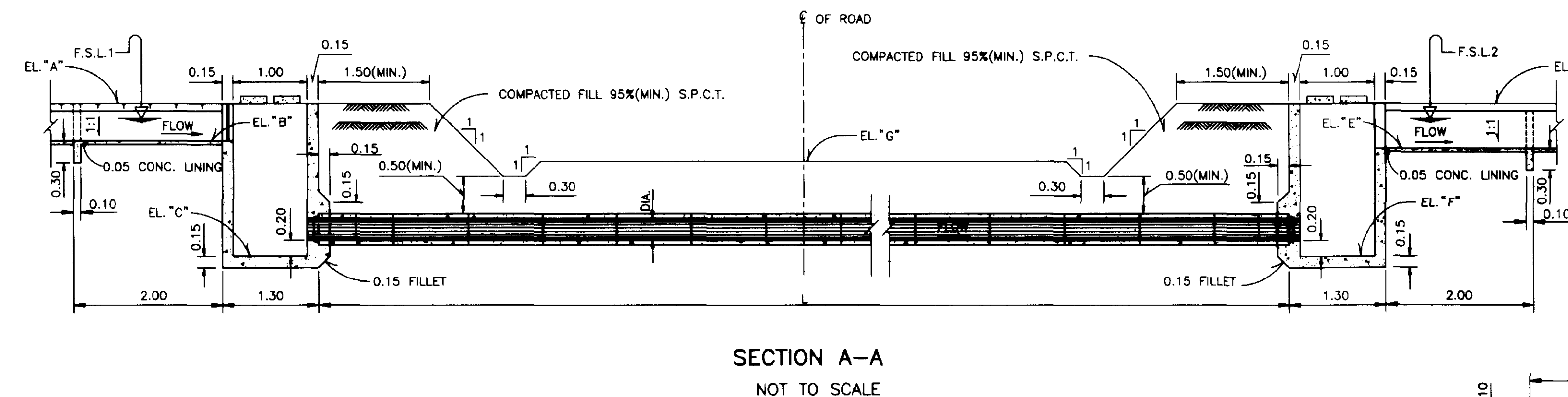
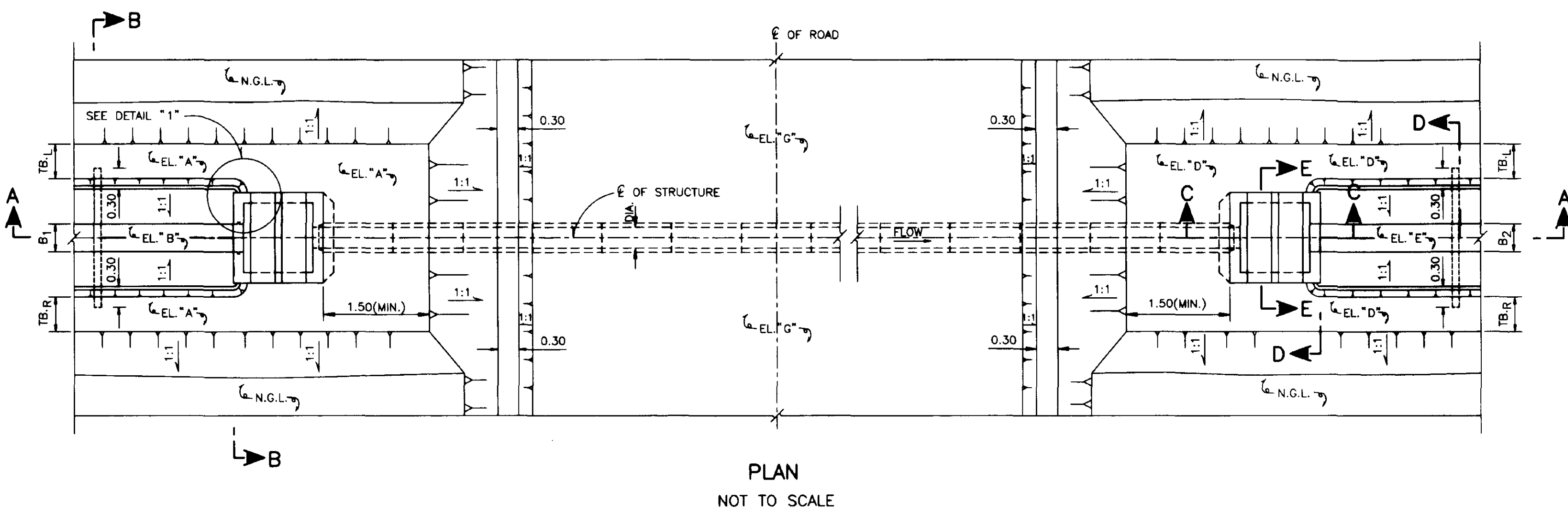
REFERENCE DRAWING

1. TYPICAL ELEVATED FLUME (PLAN, SECTION AND DETAILS) DWG. NO. 165520
2. TYPICAL ELEVATED FLUME (PLAN, SECTIONS AND REINFORCEMENT) DWG. NO. 165521

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

DESIGNED	Podanpach, Poonam, Sa/af	SUBMITTED	Yuttana Chitramont	CS.
DRAWN	Poonam	REVIEWED	B. O. S. A.	DDD.
TRACED	Poonam	RECOMMENDED	Savade	Dir.OEDA.
CHECKED	Yuttana Chitramont	APPROVED	Savade	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM.
				APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE				5/11/42
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				DATE
				165521





NOTES

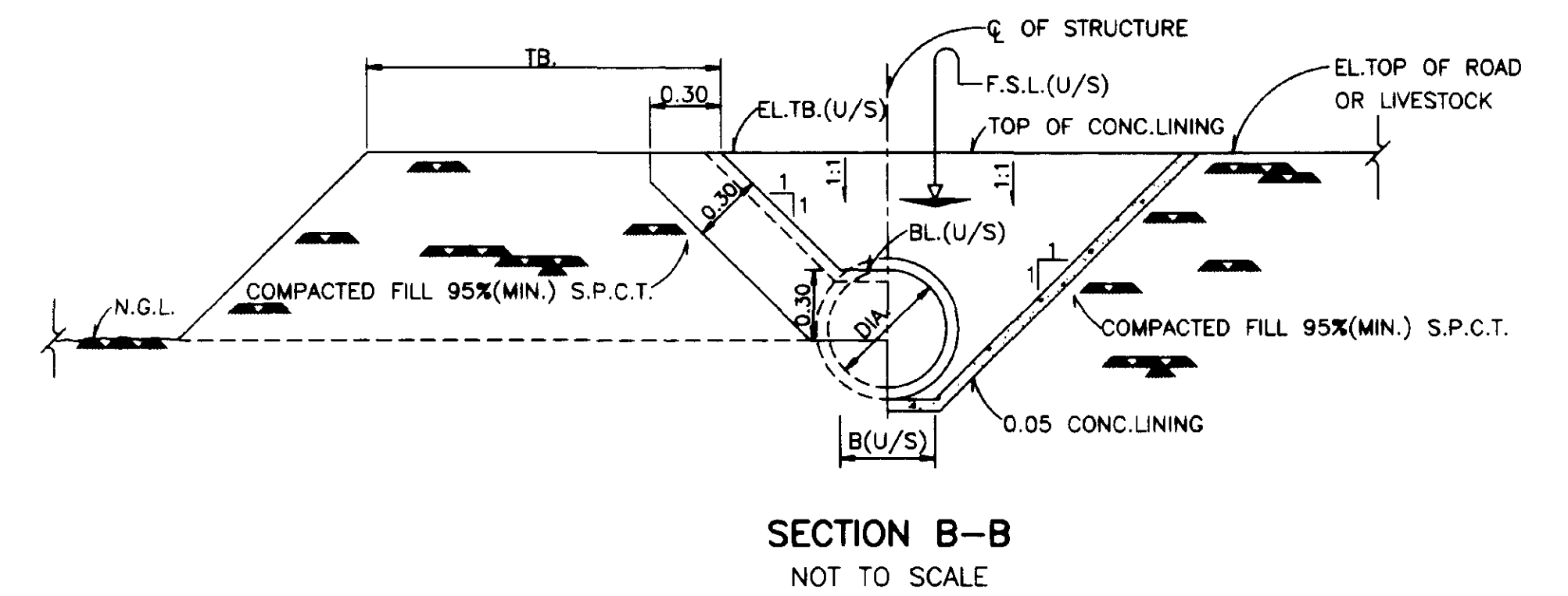
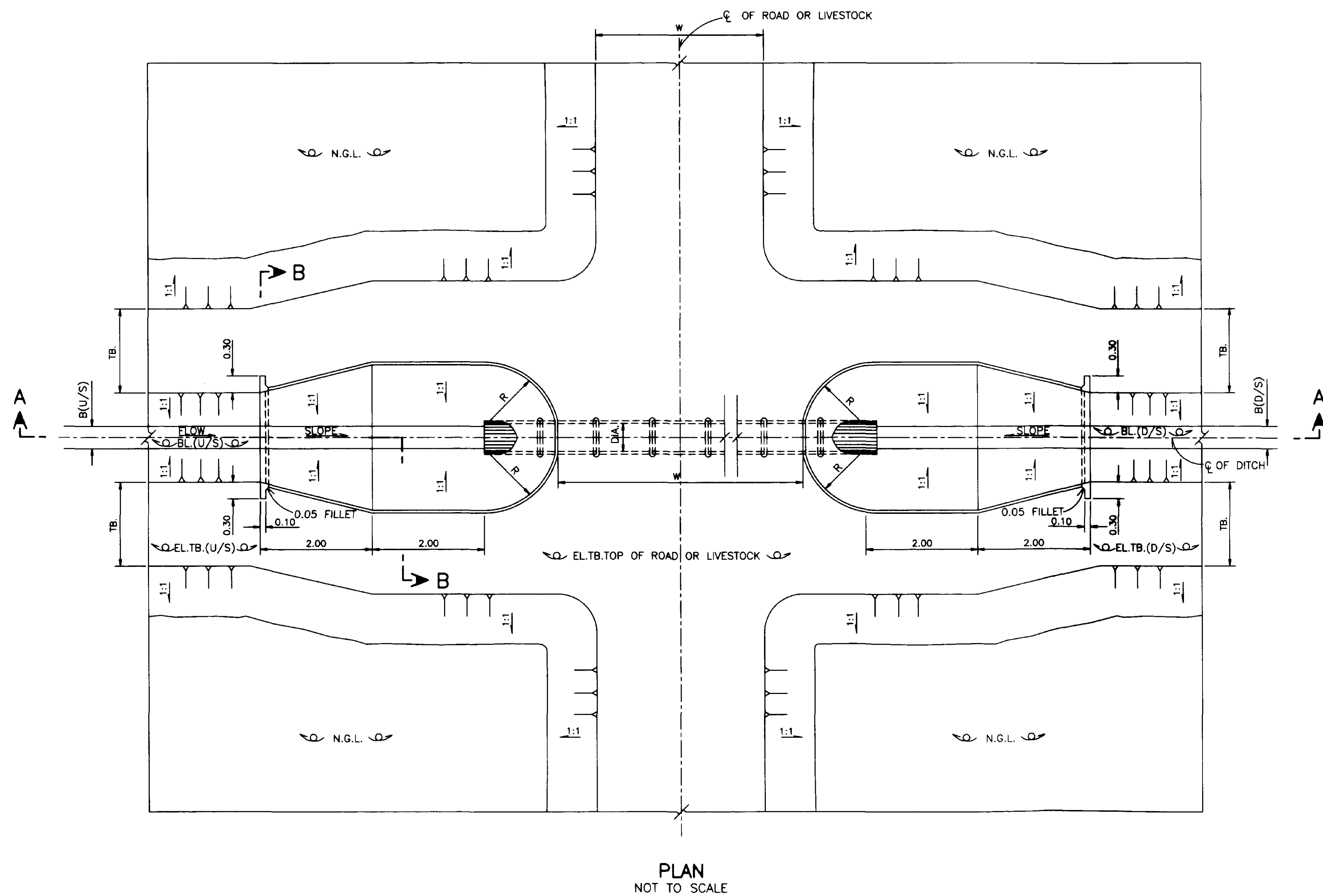
1. FOR GENERAL NOTES AND LEGEND REFER TO DWG. NO. 165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN.
3. STRUCTURE MUST BE PLACED ON UNDISTURBED OR THOROUGHLY COMPACTED EARTH
4. FOR LENGTH "L" SHOWN IN LONGITUDINAL PROFILE

REFERENCE DRAWINGS

1. TYPICAL REINFORCED PRECAST CONCRETE PIPE DWG.NO. ၁၆၅. -2-002
2. TYPICAL JOINT AND PLACEMENT OF REINFORCED PRECAST CONCRETE PIPE DWG.NO. ၁၆၅. -2-004

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL LOW ROAD PIPE CHECK
STRUCTURE OR SIPHON
PLAN, SECTION AND DETAILS

DESIGNED	Channang Hongiribet	SUBMITTED	Kongson Sijecha	CS.
DRAWN	Channang Hongiribet	REVIEWED	P. 01794	DDD.
TRACED	Channang Hongiribet	RECOMMENDED	Sawade	Dir.OE
CHECKED	Kongson Sijecha	APPROVED	Sawade	DG.

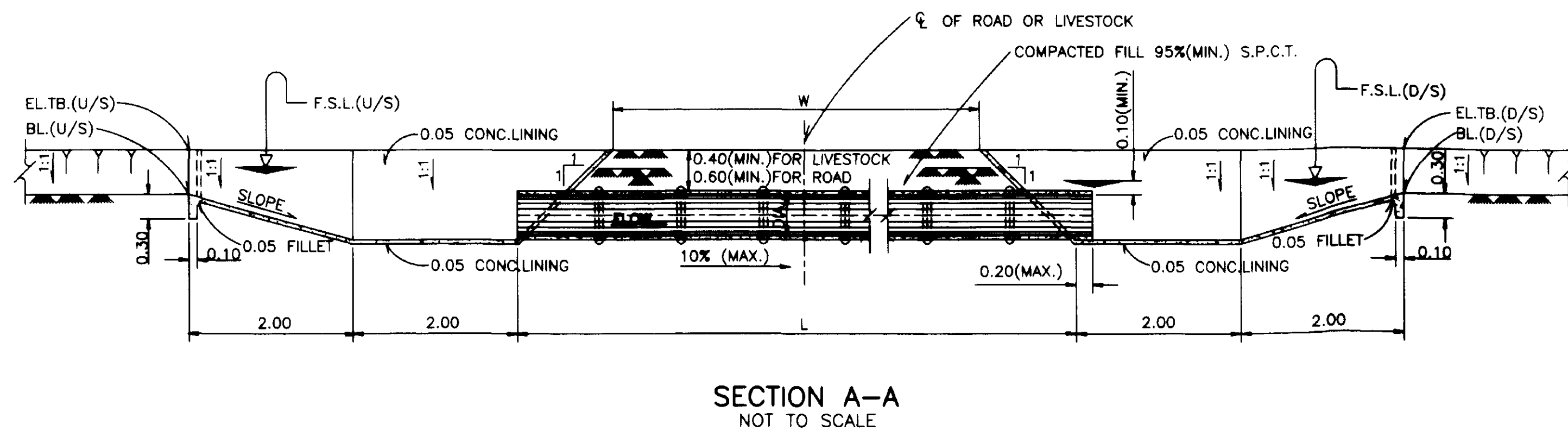


NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO _____ DWG. NO. 165500, 165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD

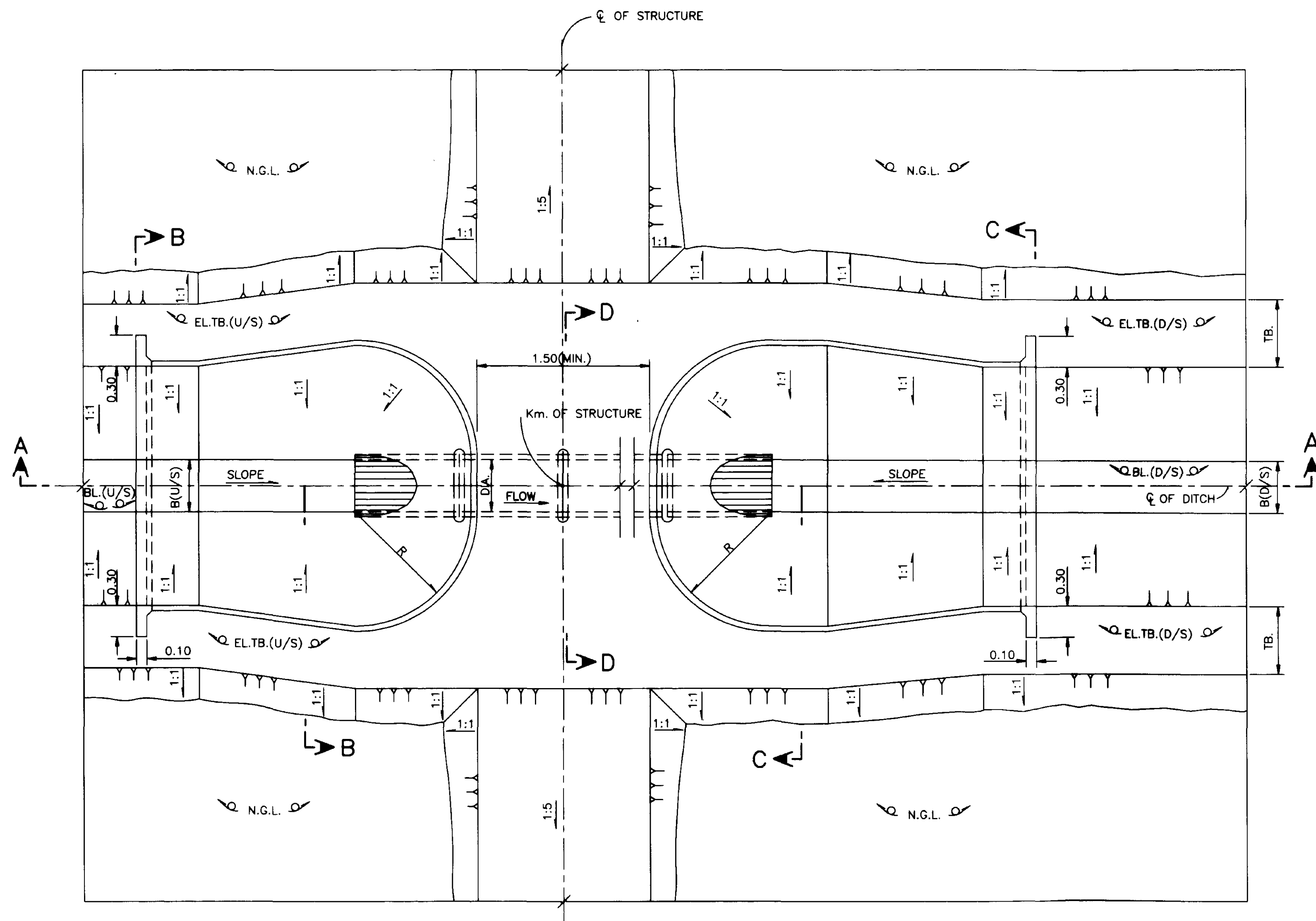
REFERENCE DRAWINGS

1. REINF. PRECAST CONCRETE PIPE _____ DWG. NO. 165501, -2-002
2. JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE _____ DWG. NO. 165501, -2-004

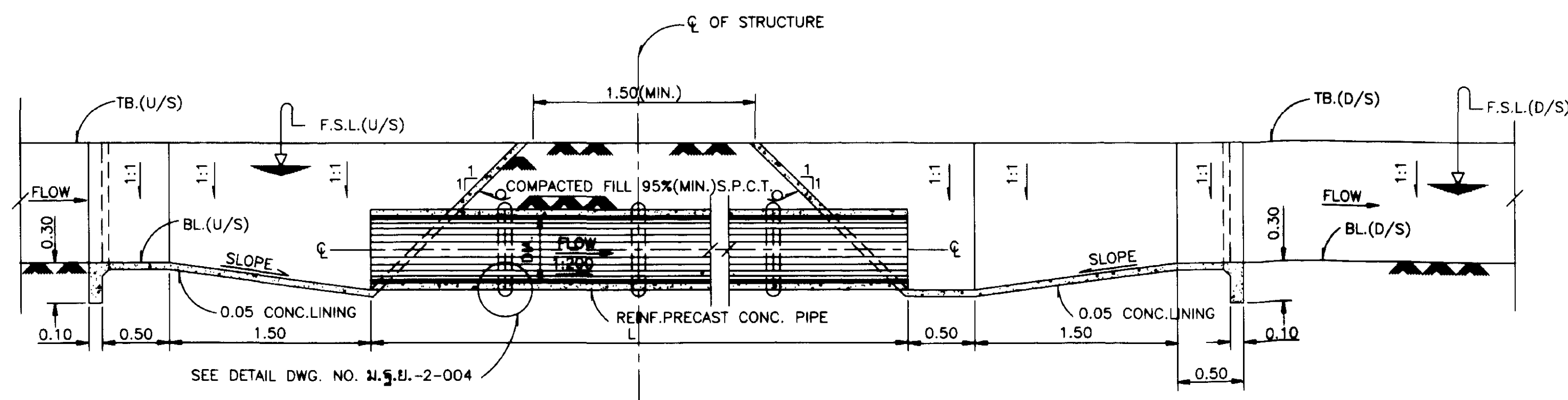


ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM DESIGN
TYPICAL ROADWAY CULVERT
OR LIVESTOCK CROSSING STRUCTURE
PLAN AND SECTIONS

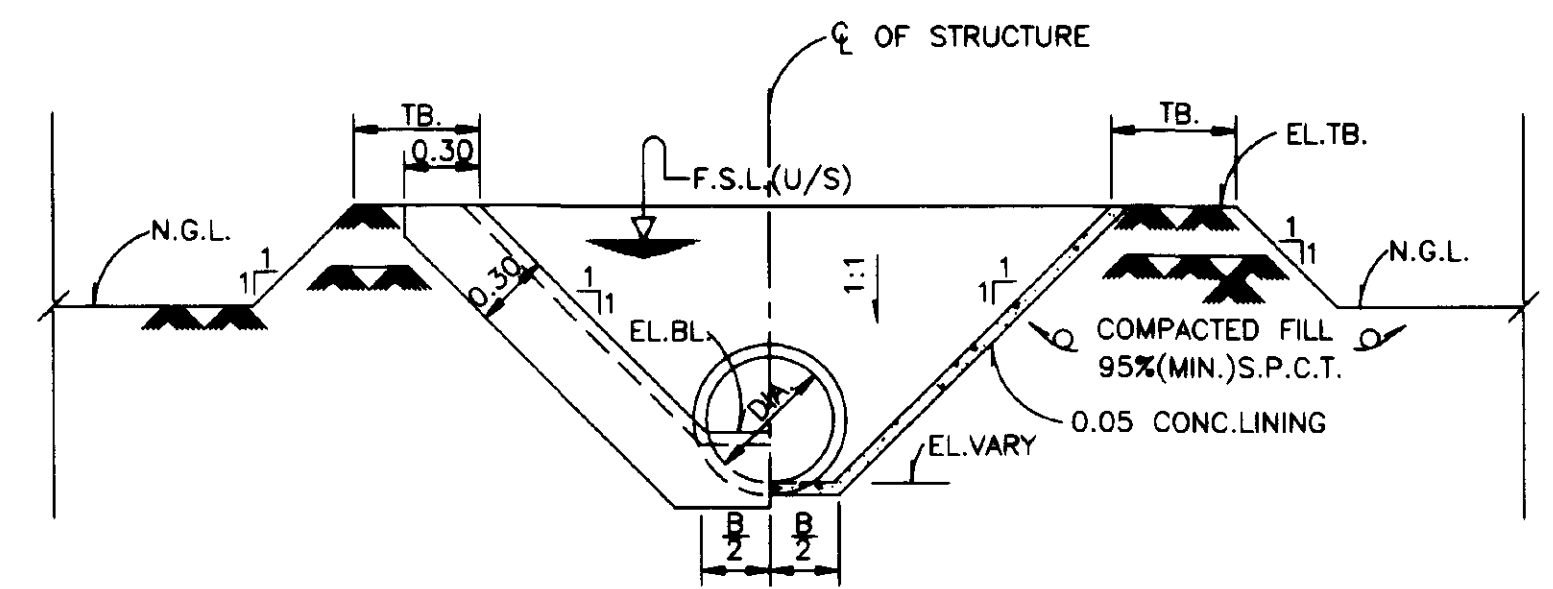
DESIGNED	Arnon Norn Nakh	SUBMITTED	N. N. N. N. N.	CS.
DRAWN	Arnon Norn Nakh	REVIEWED	B. O. T. S.	ODD.
TRACED	Arnon Norn Nakh	RECOMMENDED	Sawade	Dir. OEDA
CHECKED	N. N. N. N. N.	APPROVED	Sawade	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOMM. APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				DATE
165524				



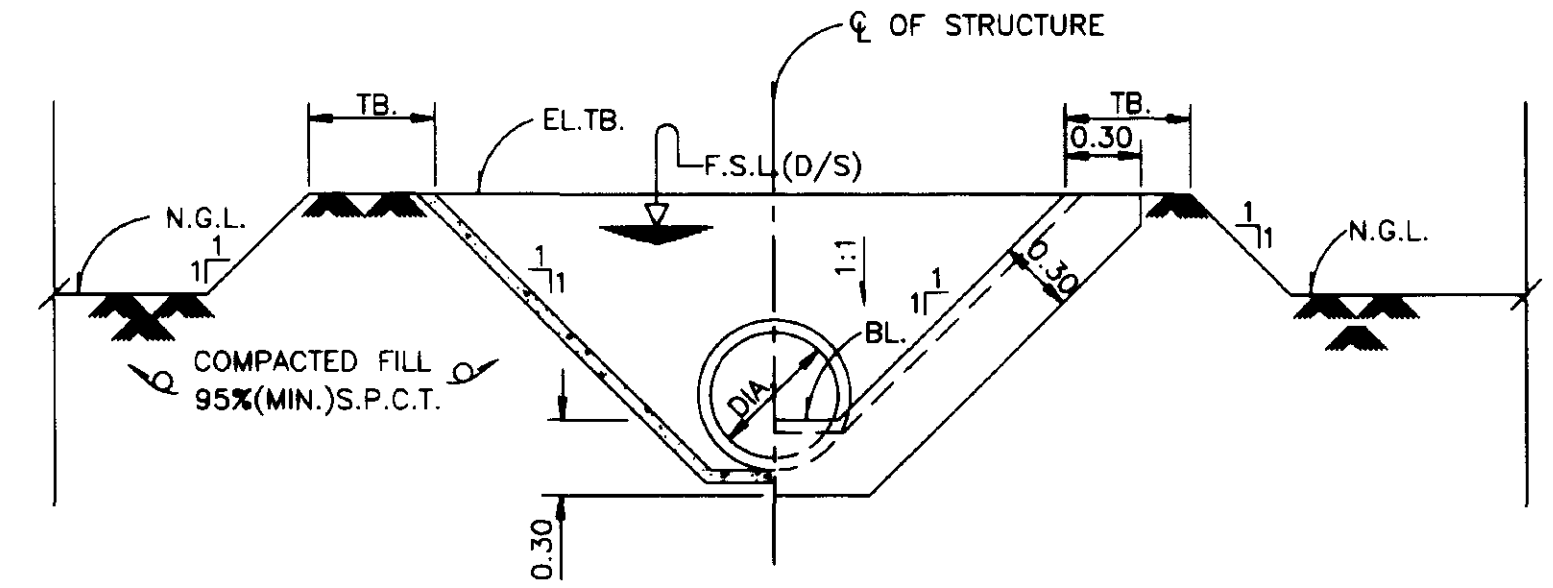
PLAN
NOT TO SCALE



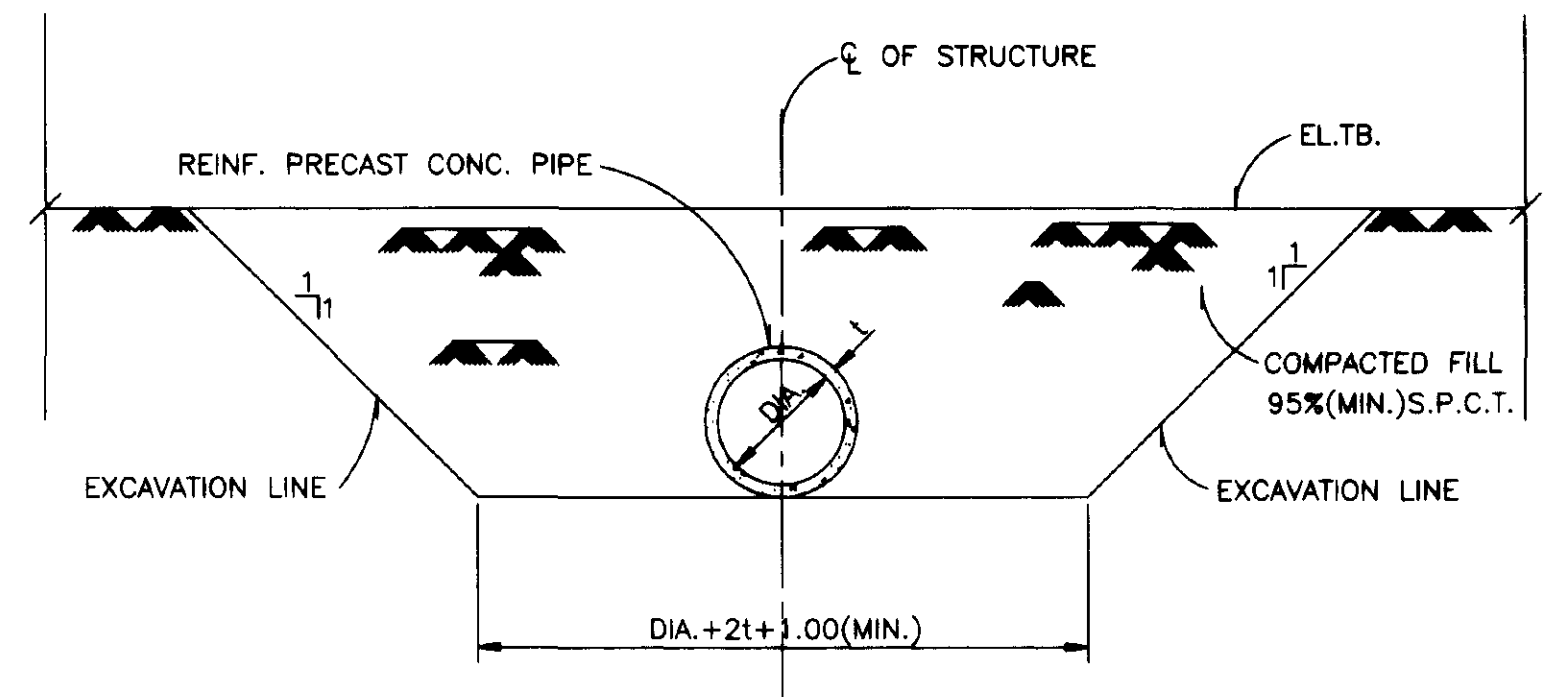
SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



SECTION C-C
NOT TO SCALE



SECTION D-D
NOT TO SCALE

NOTES

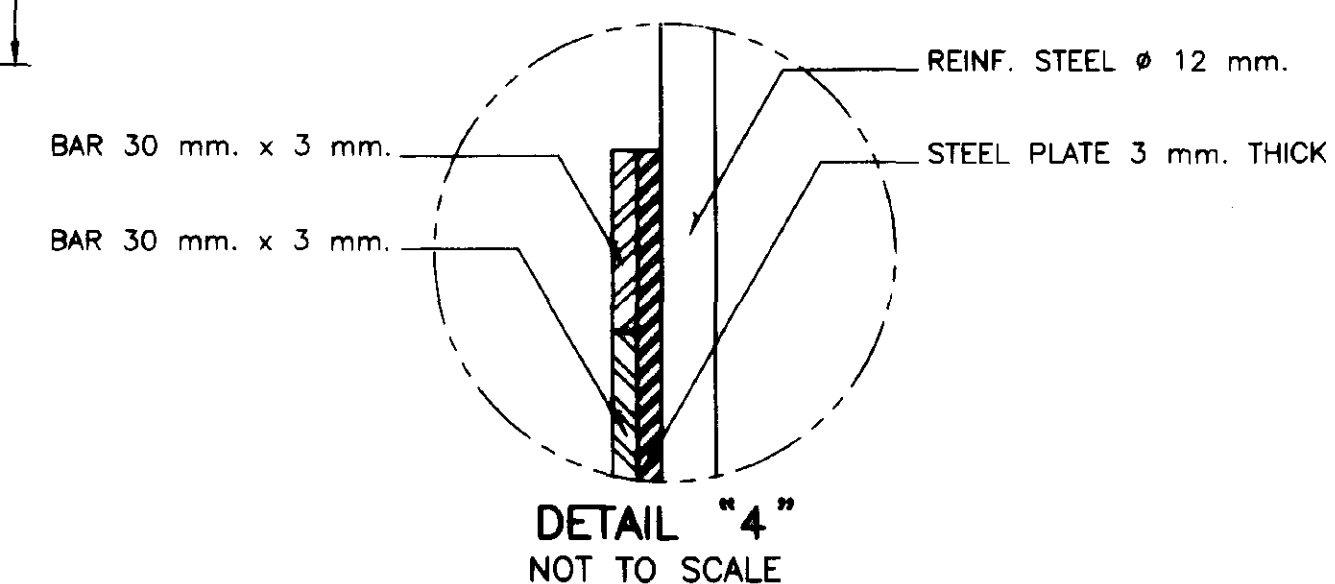
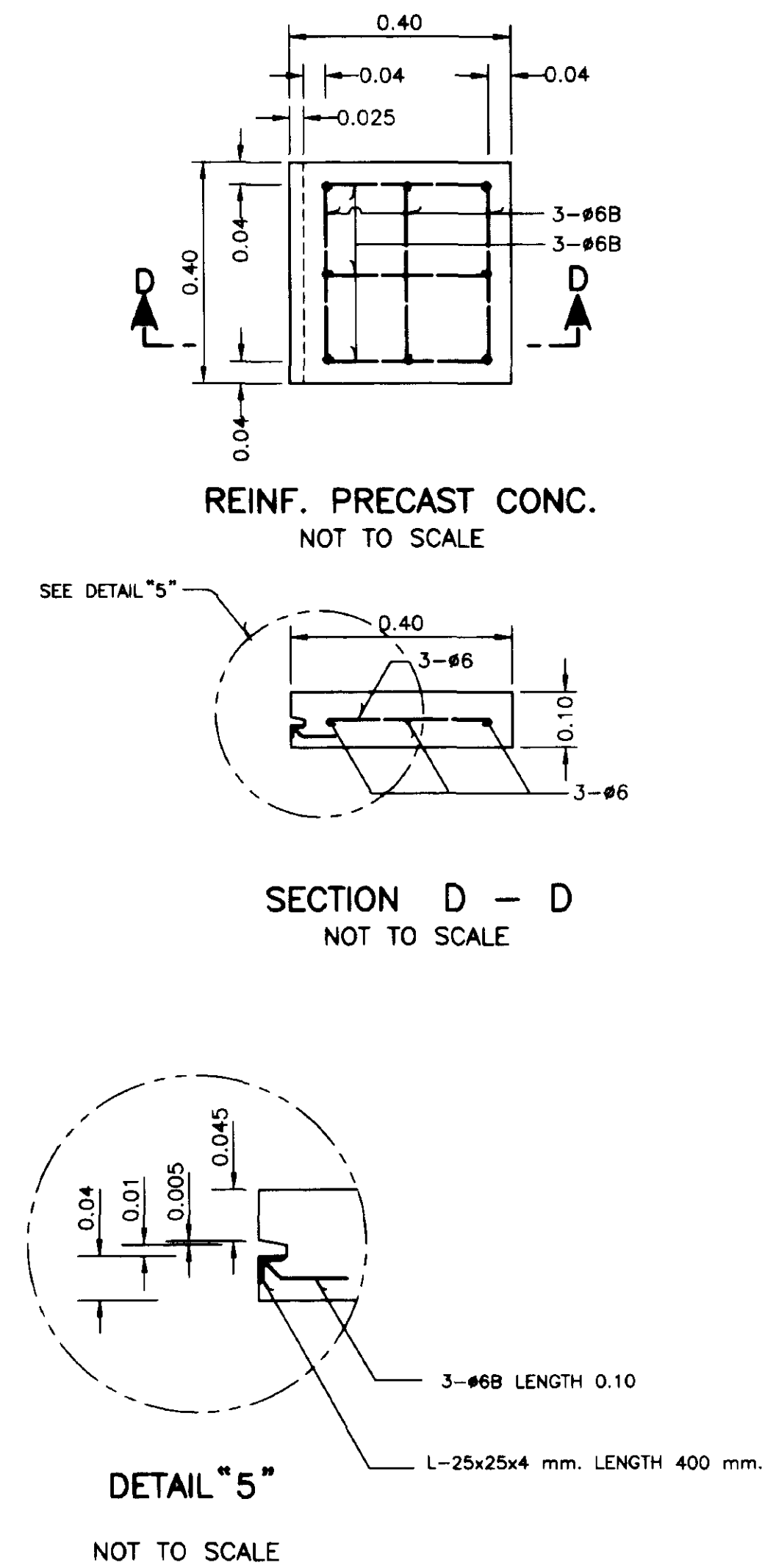
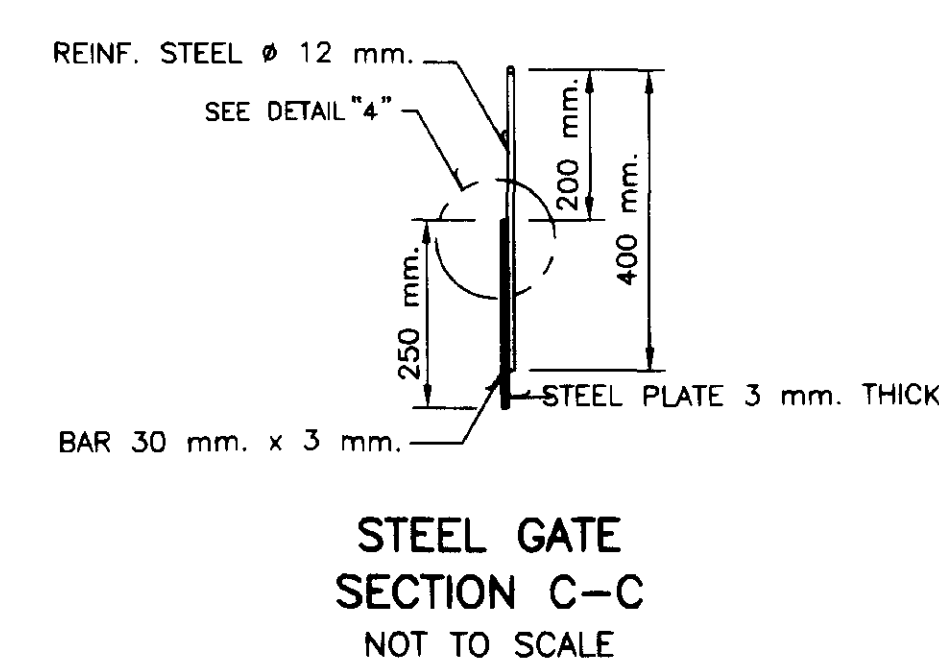
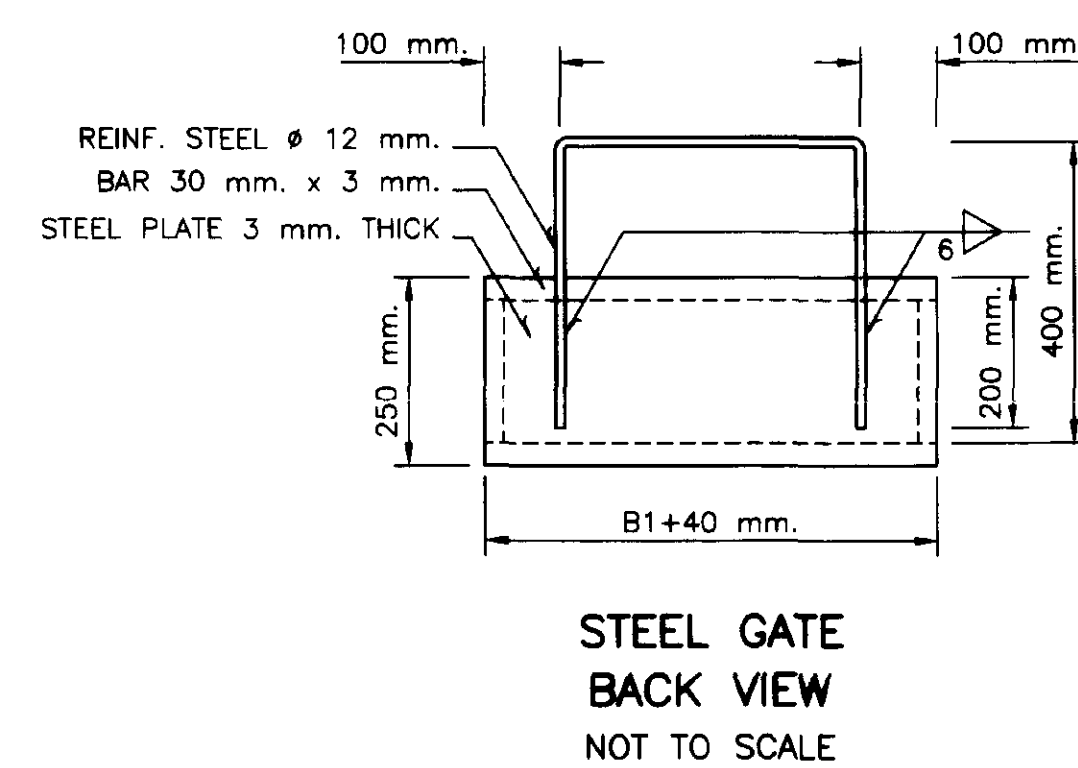
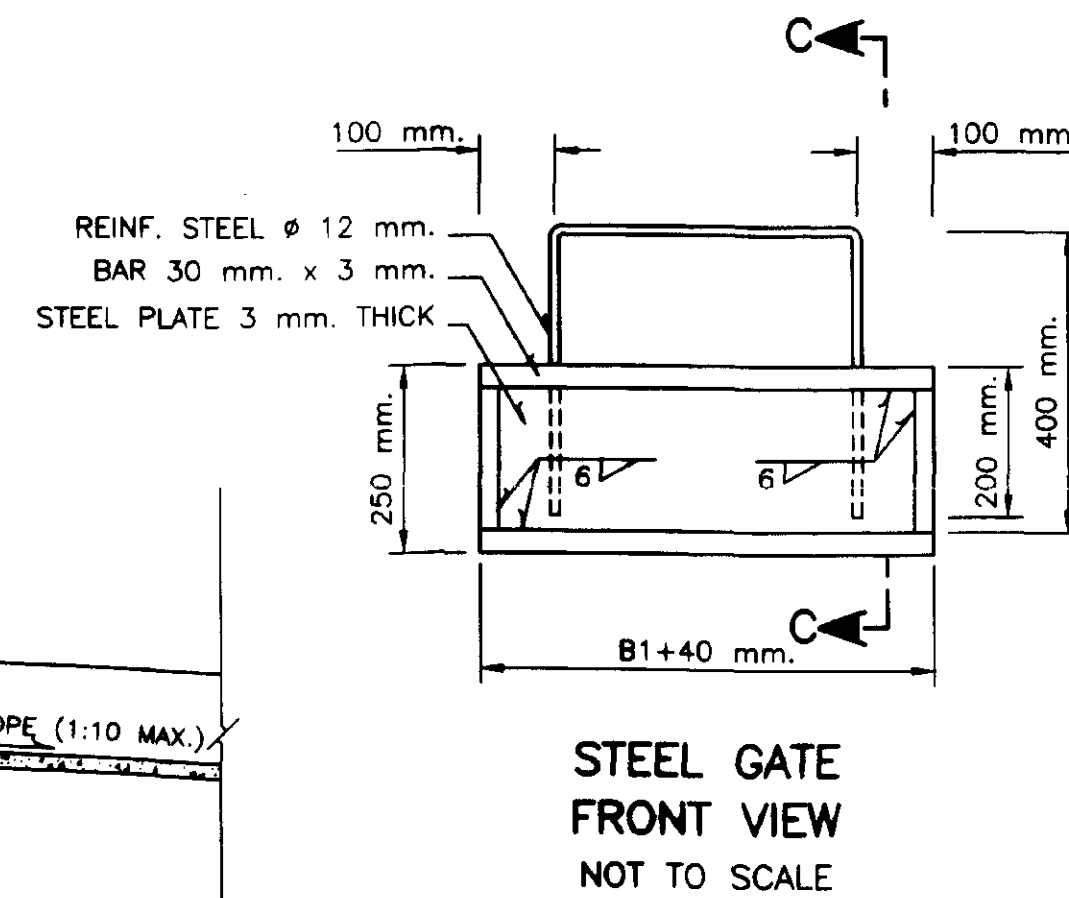
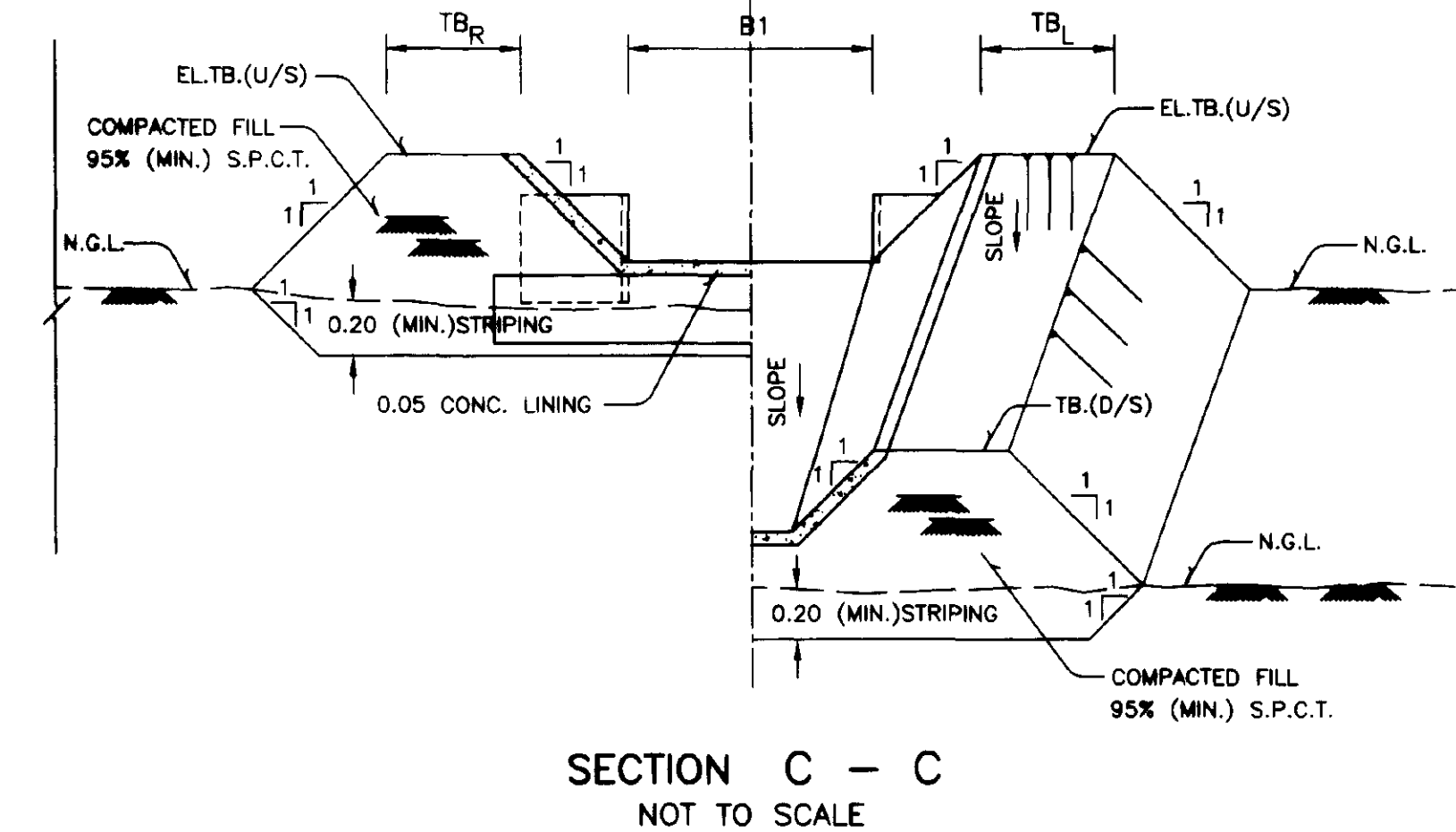
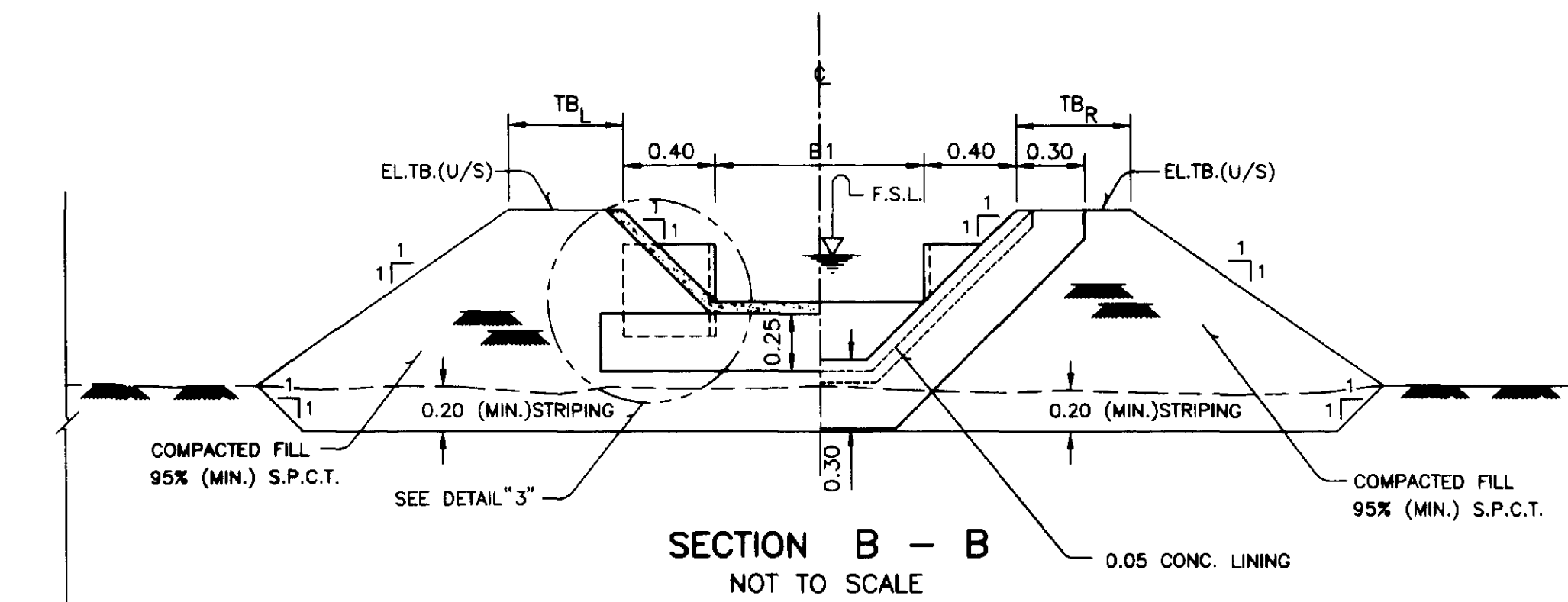
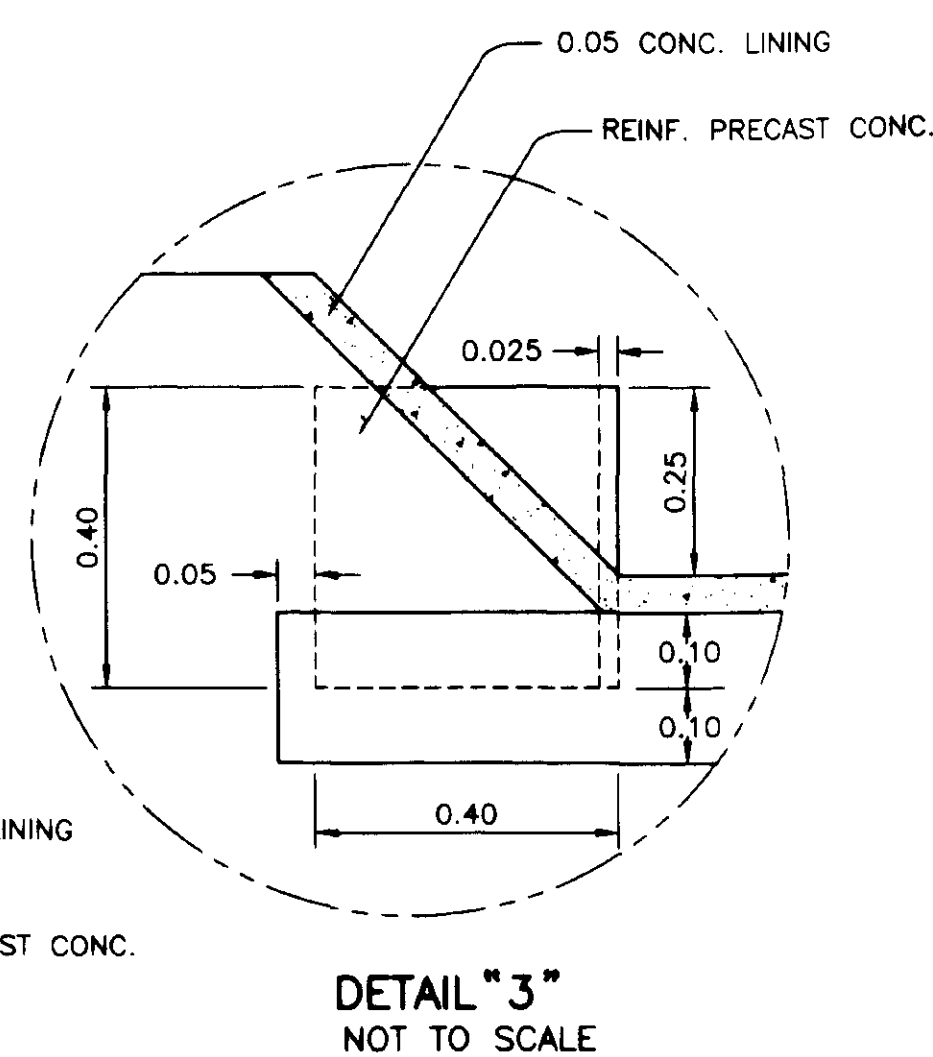
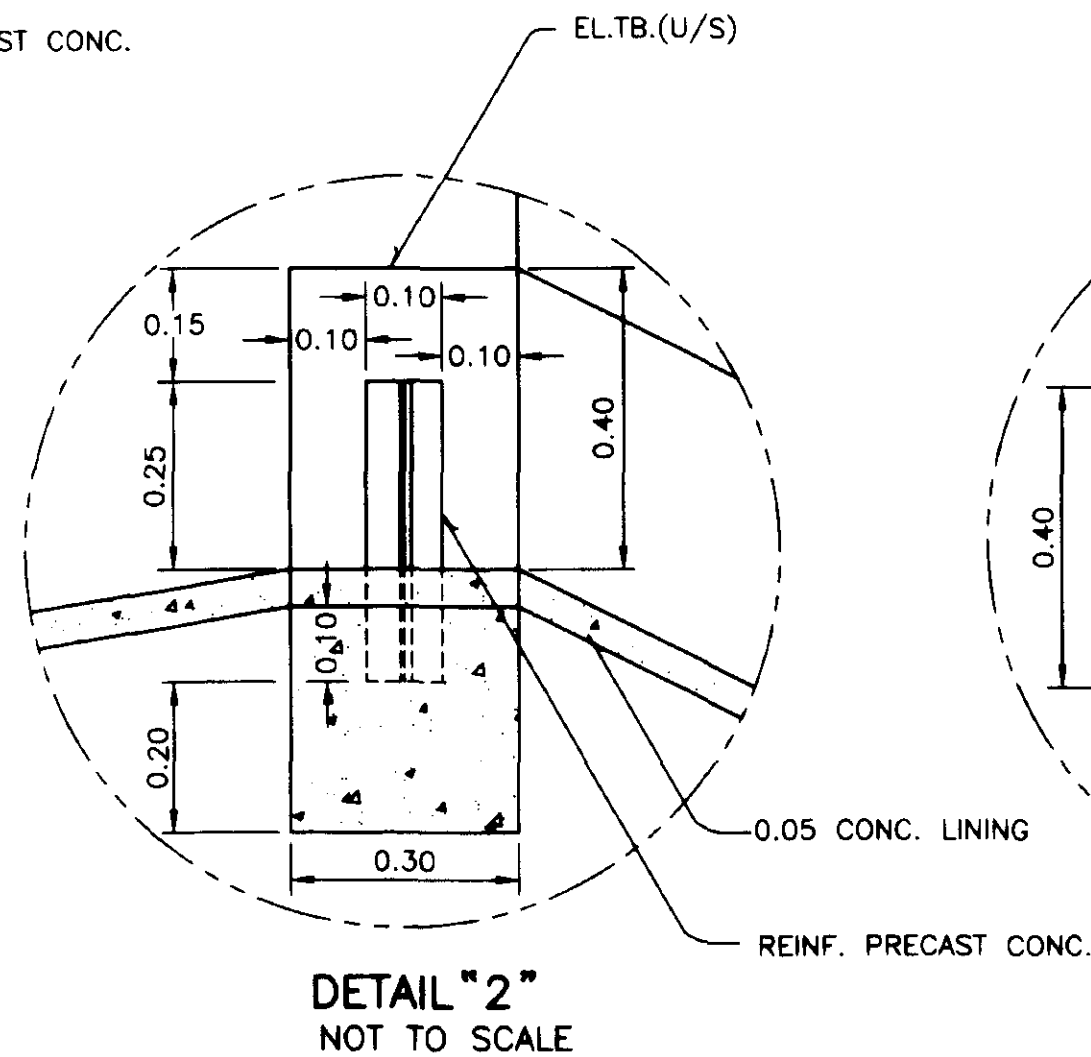
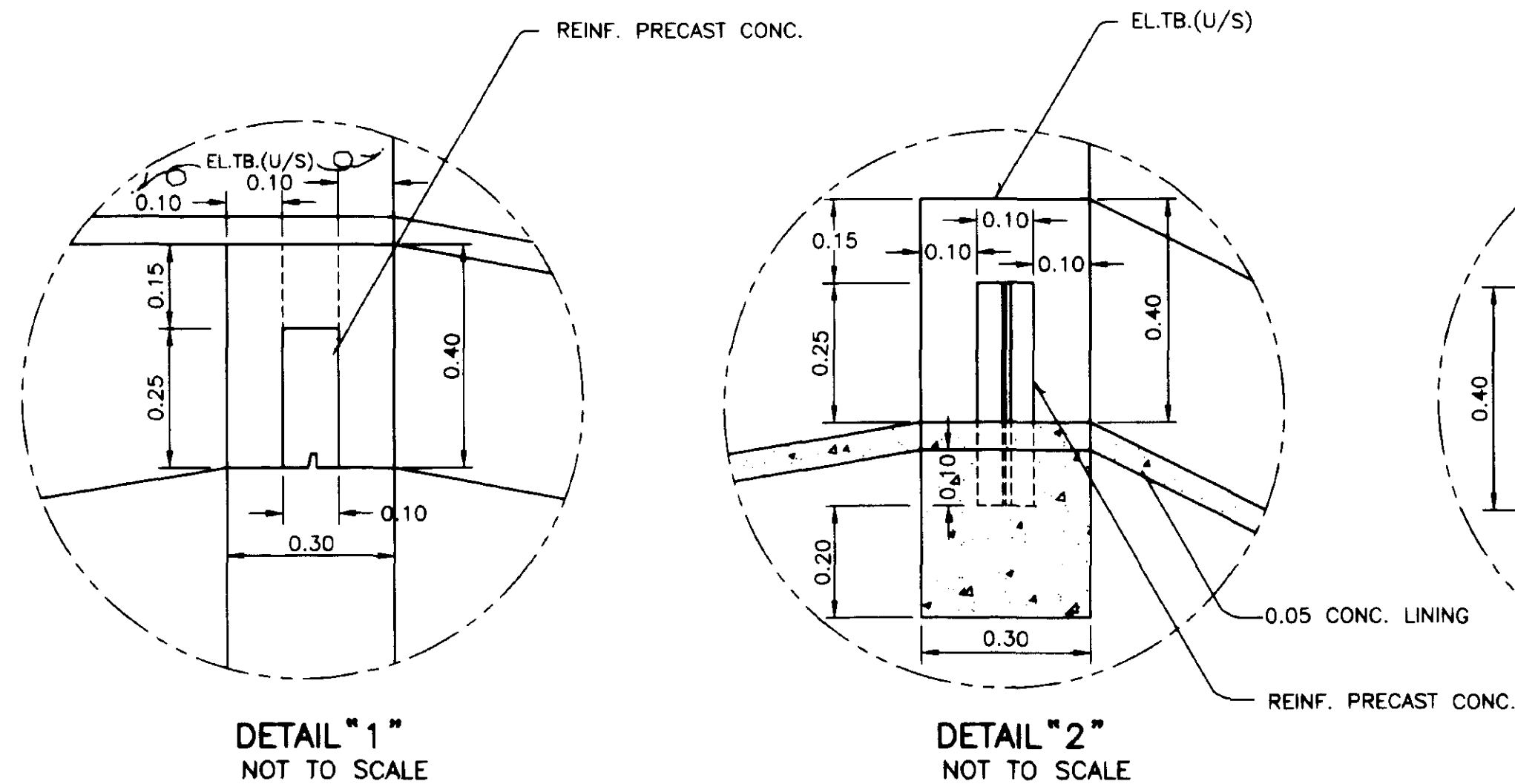
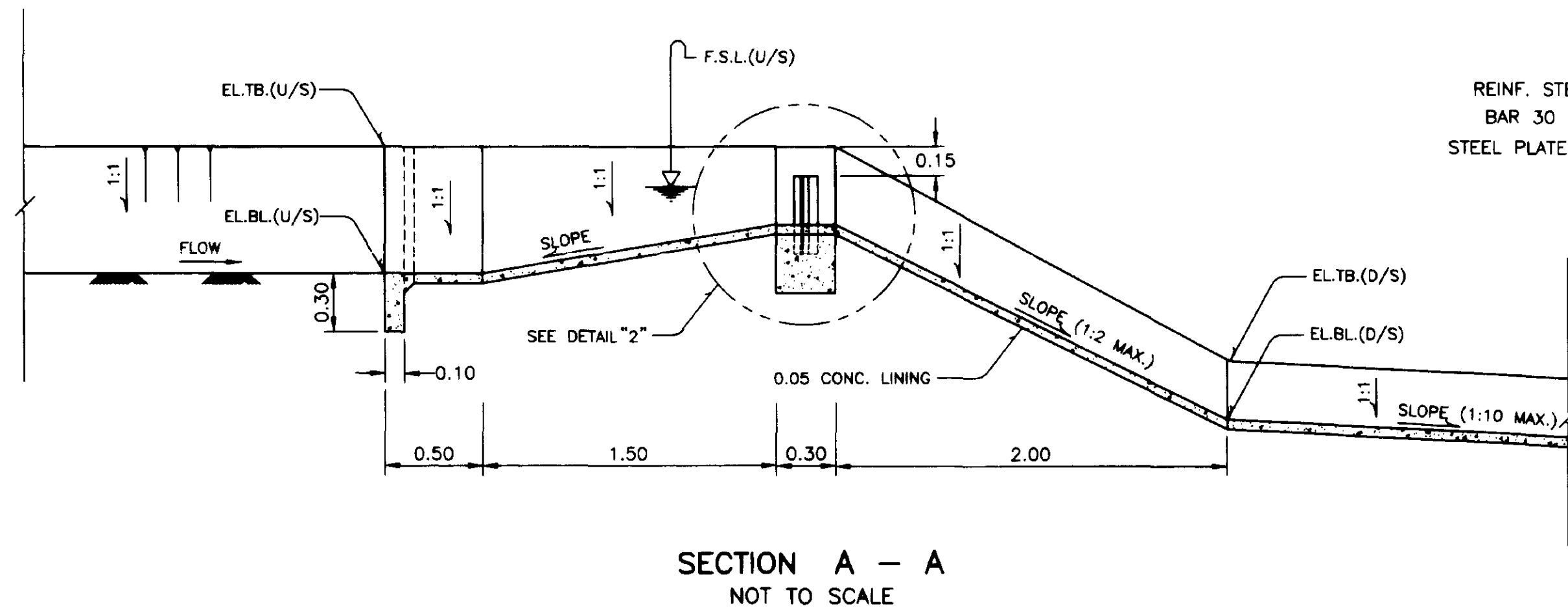
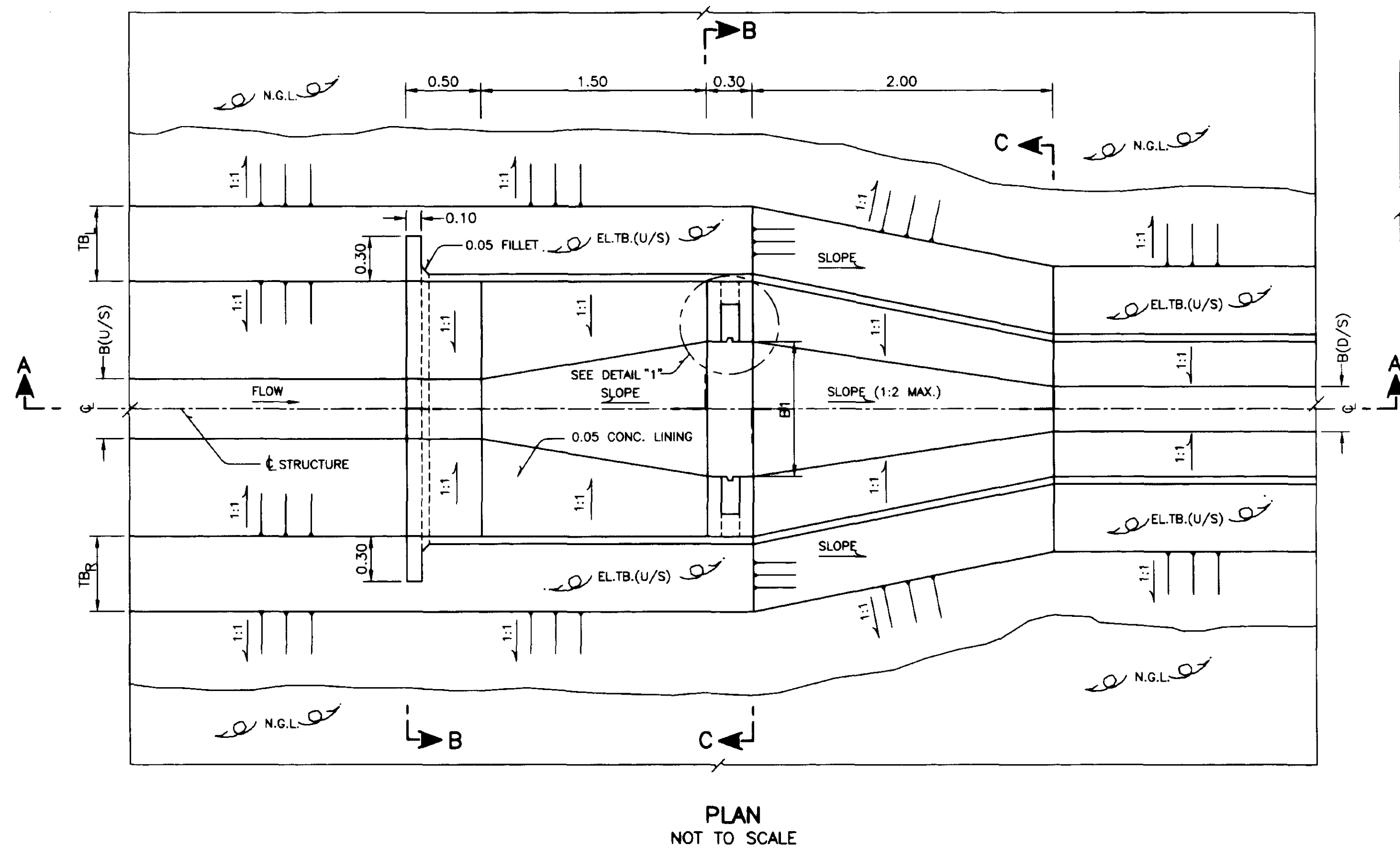
- 1.FOR GENERAL NOTES AND LEGEND REFER TO _____ DWG. NO. 165500,165501
- 2.ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN
- 3.DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD

REFERENCE DRAWINGS

- 1.REINF.PRECAST CONCRETE PIPE _____ DWG.NO.165501-2-002
- 2.JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE _____ DWG.NO.165501-2-004

Q (cms)	DIA. (m)	L (m)	LOSS(MIN.) (m)
0.030	0.30	3.00	0.014
0.060	0.40	3.00	0.016
0.090	0.50	4.00	0.015
0.120	0.60	4.00	0.012

ROYAL IRRIGATION DEPARTMENT			
ON-FARM IRRIGATION SYSTEM DESIGN			
TYPICAL ENTRANCE CULVERT			
PLAN AND SECTIONS			
DESIGNED	<i>N. Wongsu</i>	SUBMITTED	<i>N. Wongsu</i>
DRAWN	<i>N. Wongsu</i>	REVIEWED	<i>N. Wongsu</i>
TRACED	<i>N. Wongsu</i>	RECOMMENDED	<i>N. Wongsu</i>
CHECKED	<i>N. Wongsu</i>	APPROVED	<i>N. Wongsu</i>
REV. NO.	POSITION	DESCRIPTION	DATE
1			5.11.42
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE			165525



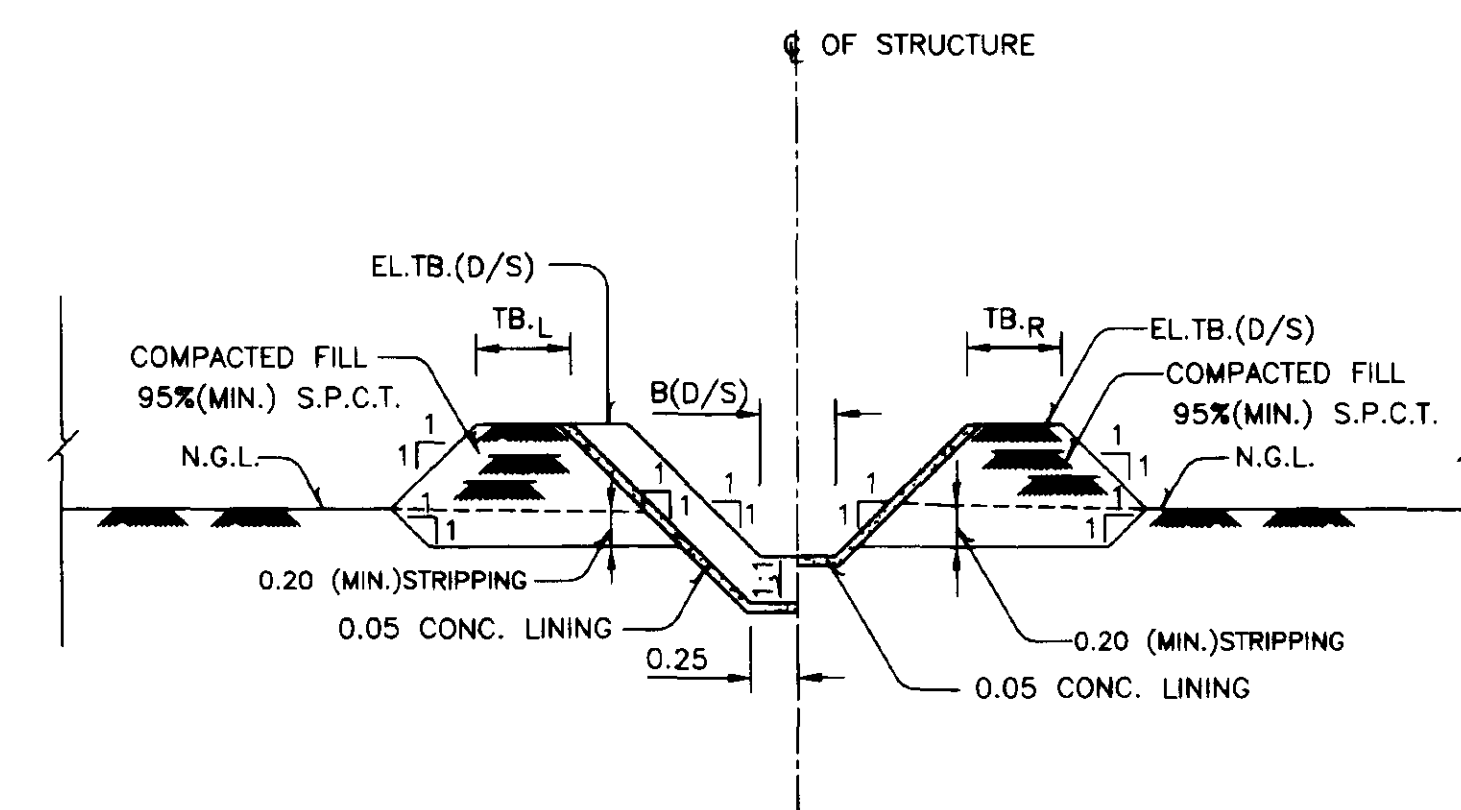
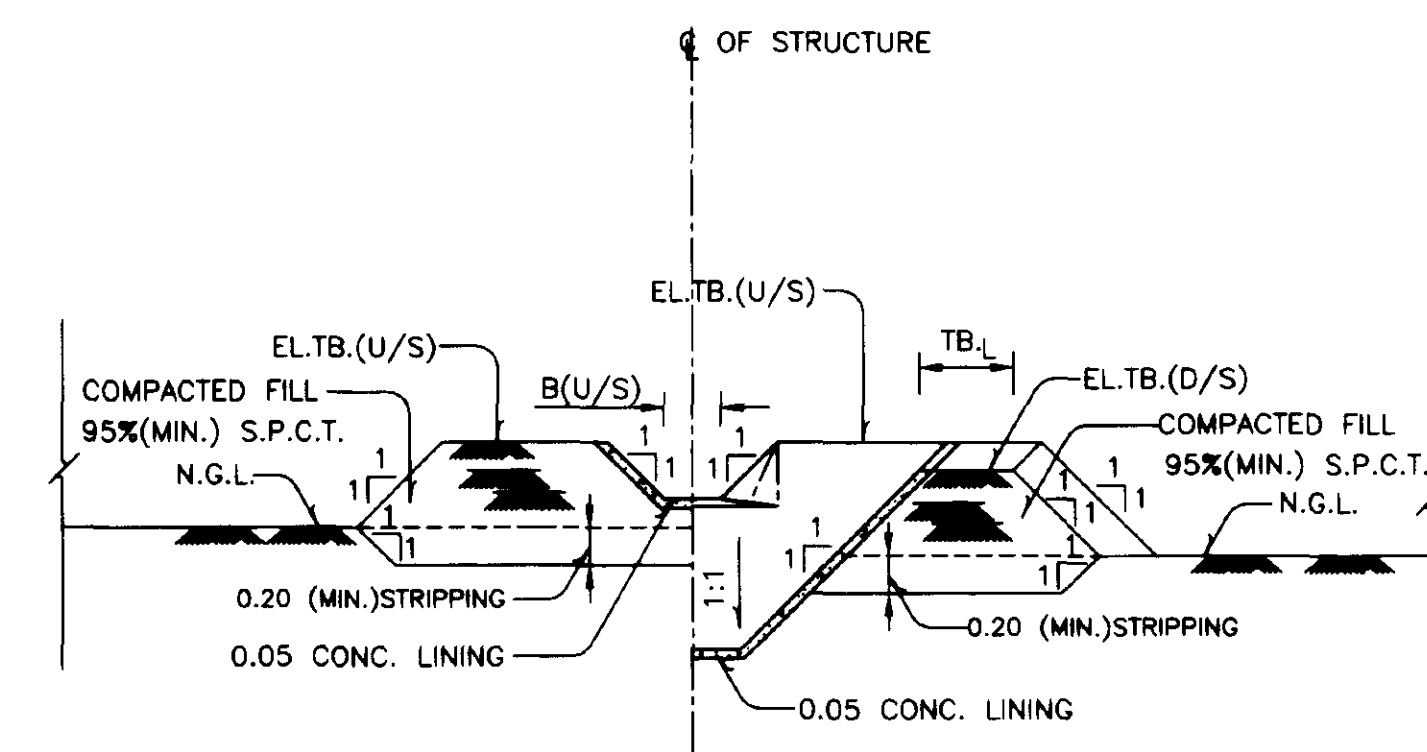
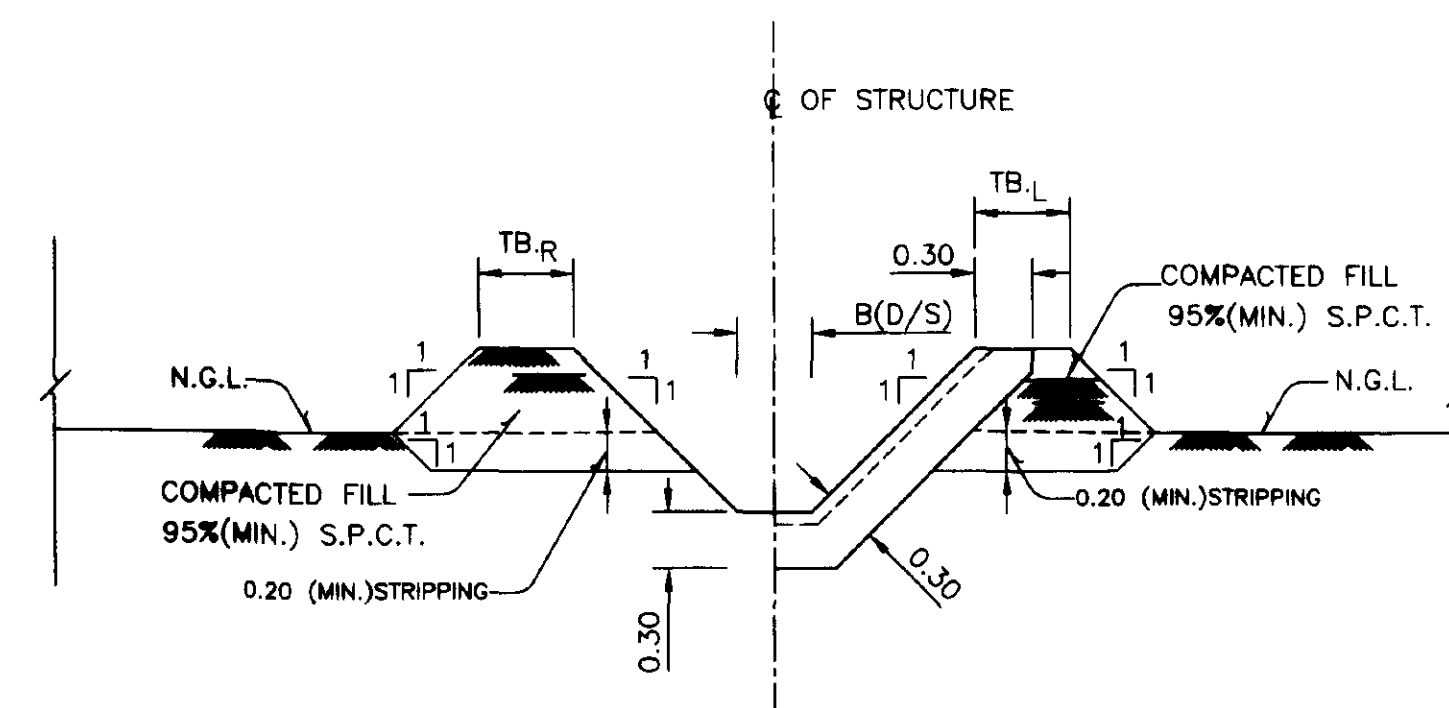
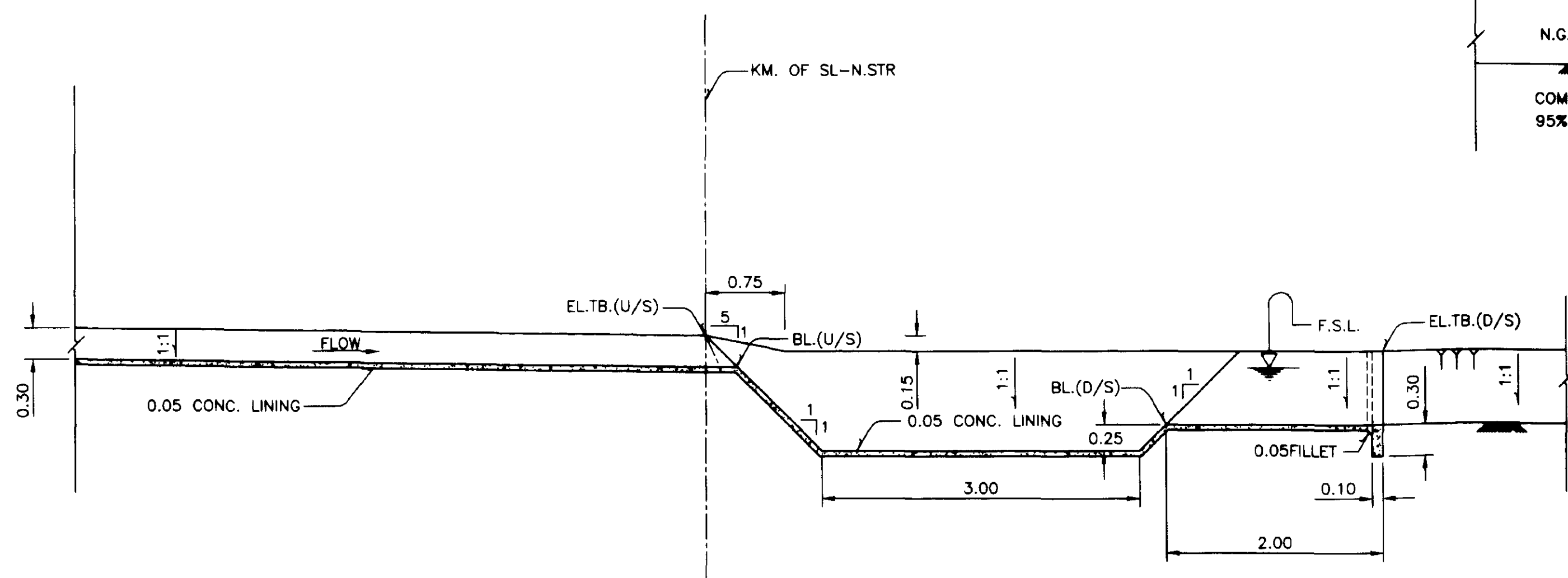
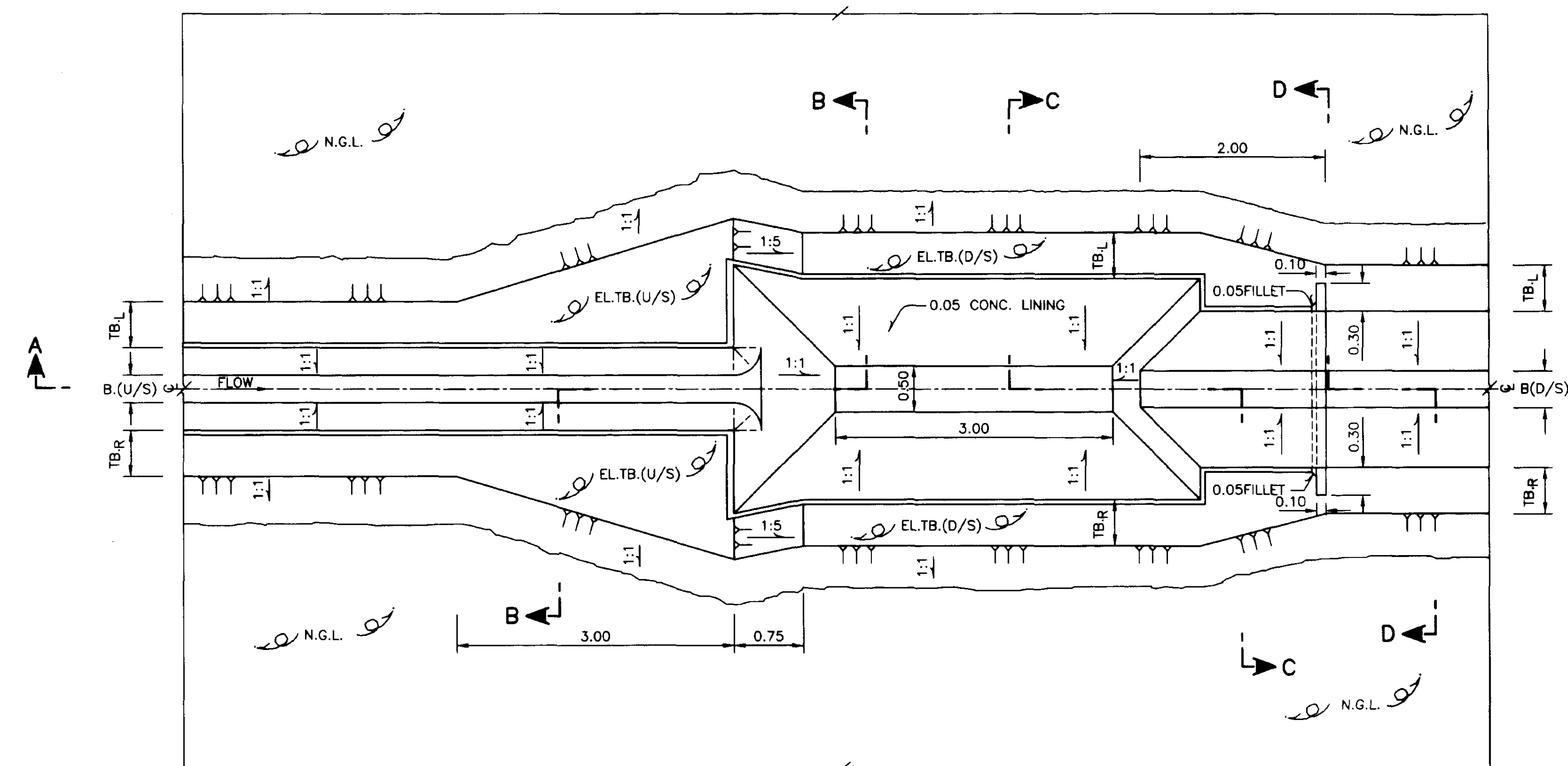
NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO DWG.NO. 165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METER UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD
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.

DITCH TYPE	B1 (m)
E1	0.60
E2	0.90
E3	1.10
E4	1.20
L1	0.40
L2	0.60
L3	0.70
L4	0.80

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL NORMAL SLOPE DITCH TO
STEEP SLOPE DITCH STRUCTURE
PLAN, SECTIONS AND DETAILS

DESIGNED	Subhakar	SUBMITTED	Subhakar	CS.
DRAWN	Subhakar	REVIEWED	Subhakar	DDD.
TRACED	Subhakar	RECOMMENDED	Subhakar	Dir.OEDA
CHECKED	Subhakar	APPROVED	Subhakar	DC.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOM.
				APPROVED

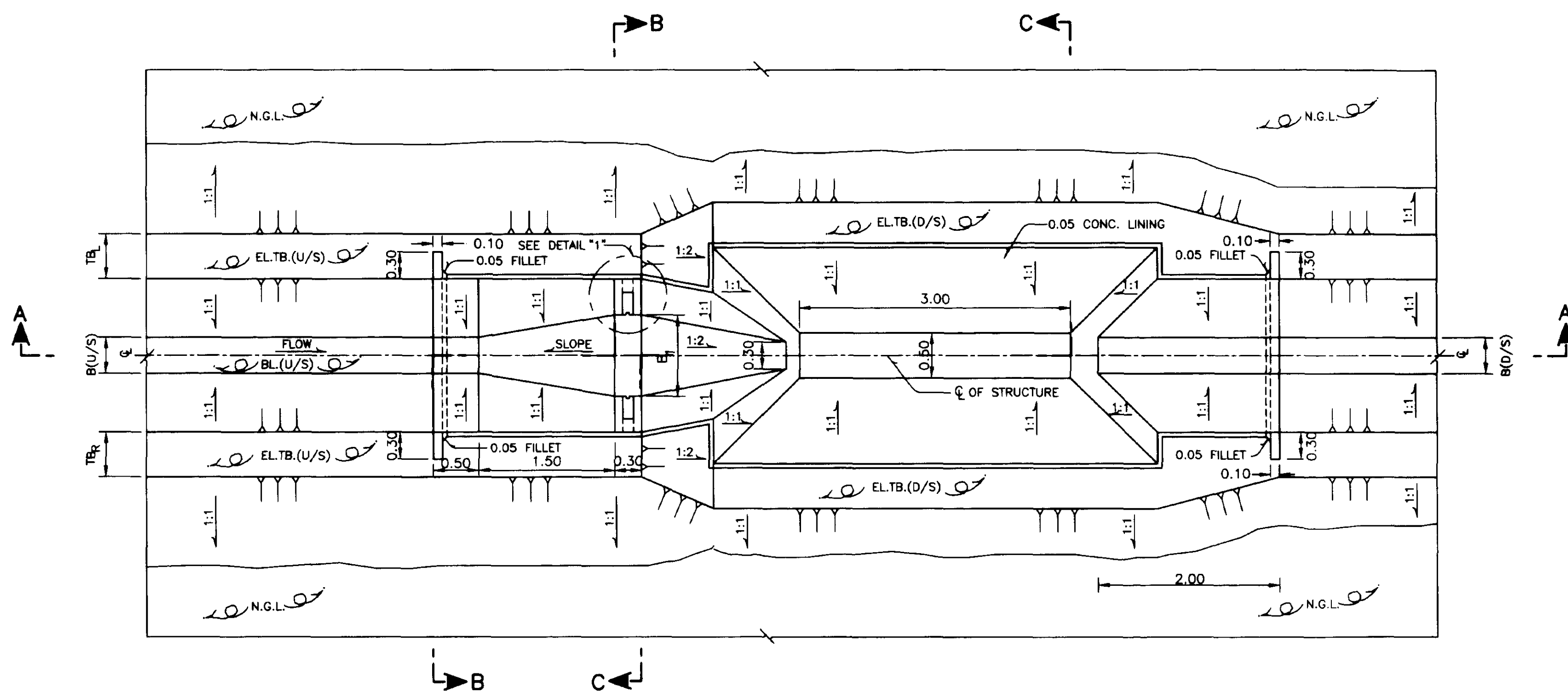


NOTES

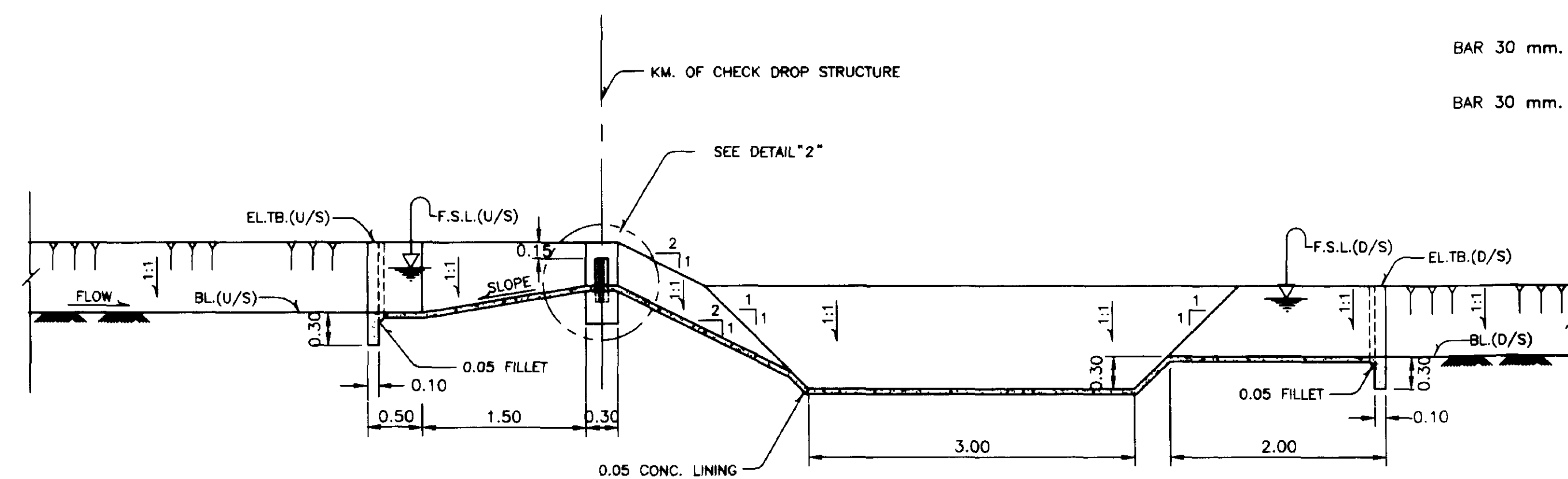
1. FOR GENERAL NOTES AND LEGEND REFER TO DWG.NO. 165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METER UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL STEEP SLOPE DITCH TO
NORMAL SLOPE DITCH STRUCTURE
PLAN , SECTIONS AND DETAILS

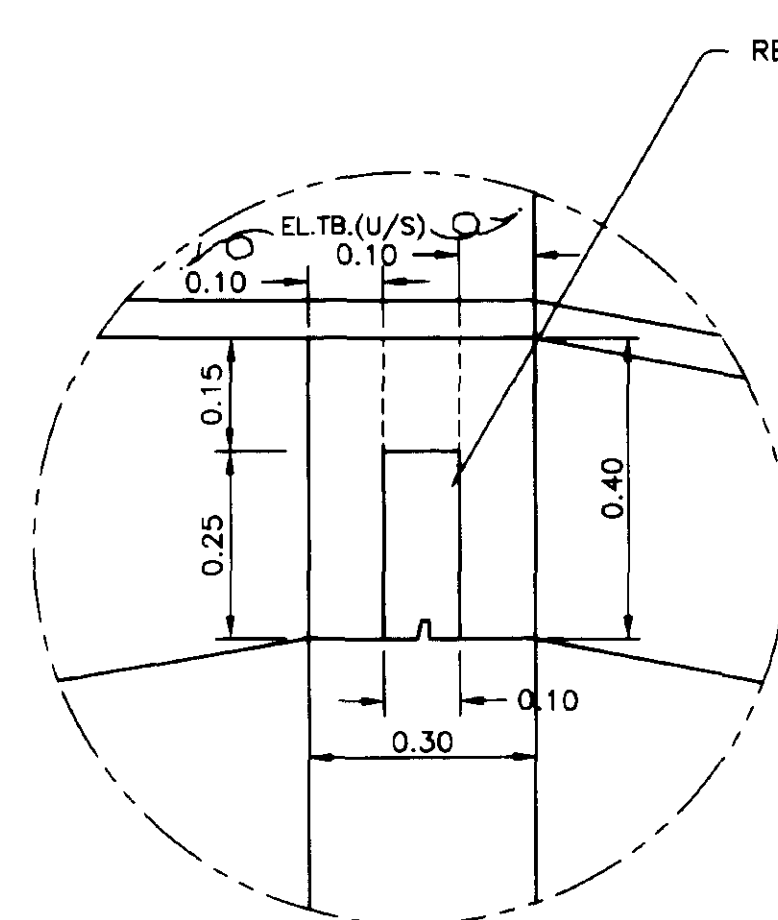
DESIGNED	Issued	SUBMITTED	CS.
DRAWN	Issued	REVIEWED	DDD.
TRACED	Issued	RECOMMENDED	Dir.OEDA.
CHECKED	Issued	APPROVED	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE
CHECKED	SUBMITTED	RECOM.	APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE			
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH			
DATE			



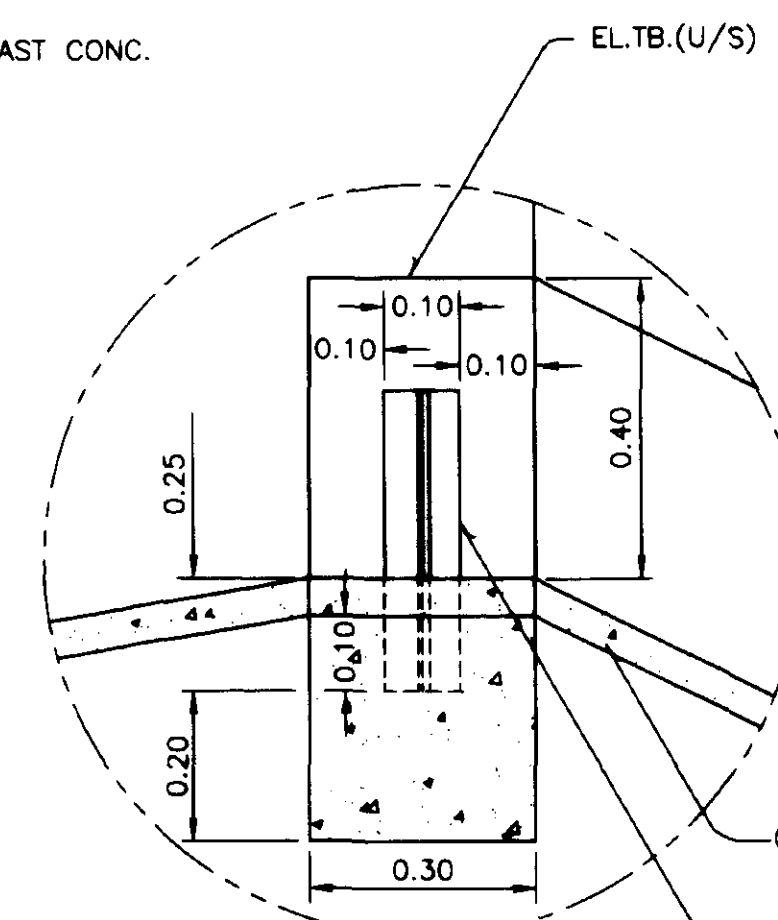
PLAN
NOT TO SCALE



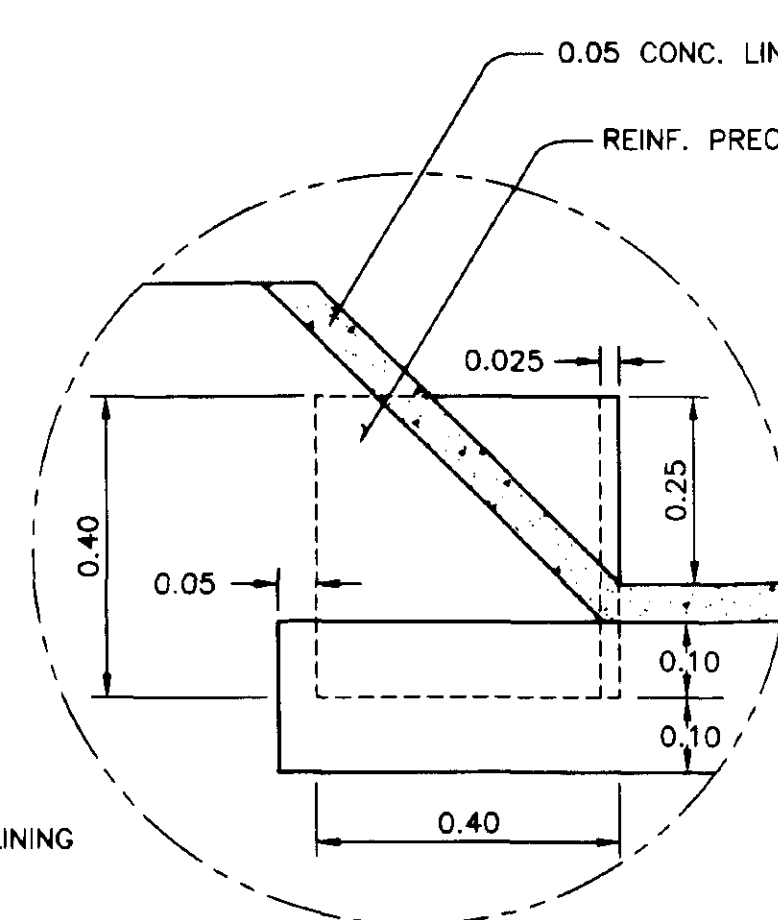
SECTION A-A
NOT TO SCALE



DETAIL "1"
NOT TO SCALE



DETAIL "2"
NOT TO SCALE

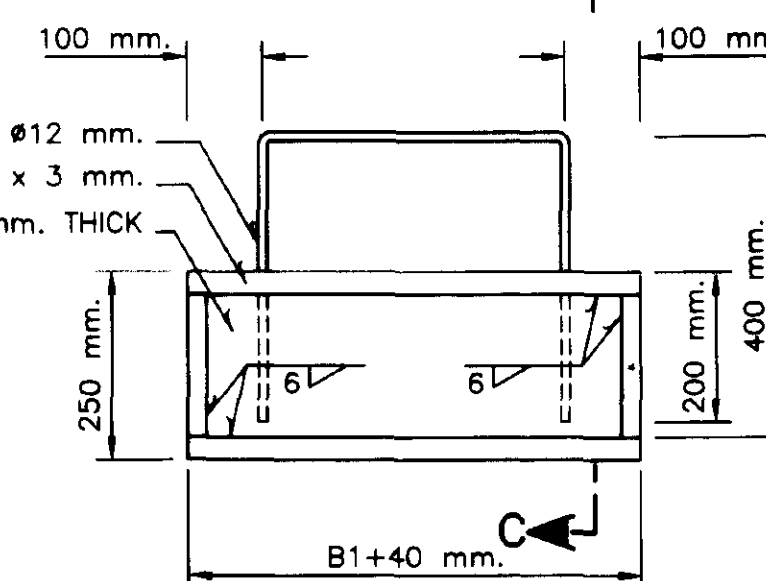


DETAIL "3"
NOT TO SCALE

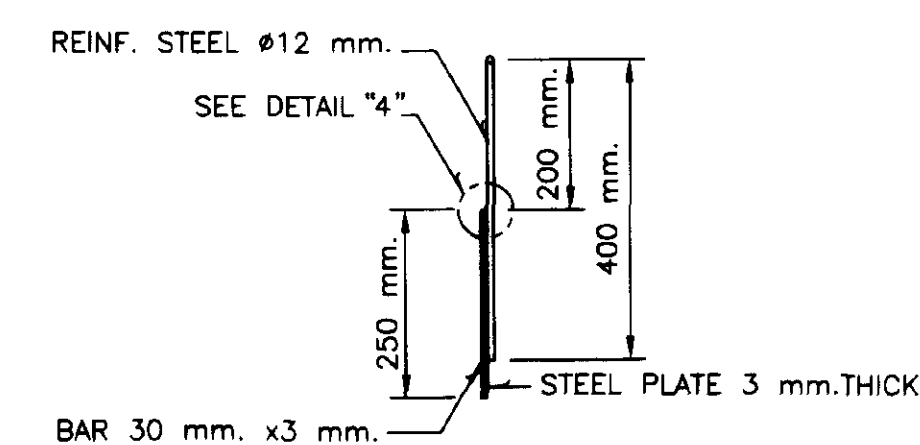
REINF. STEEL ϕ 12 mm.
BAR 30 mm. x 3 mm.
STEEL PLATE 3 mm. THICK
BAR 30 mm. x 3 mm.

DETAIL "4"
NOT TO SCALE

REINF. STEEL ϕ 12 mm.
BAR 30 mm. x 3 mm.
STEEL PLATE 3 mm. THICK

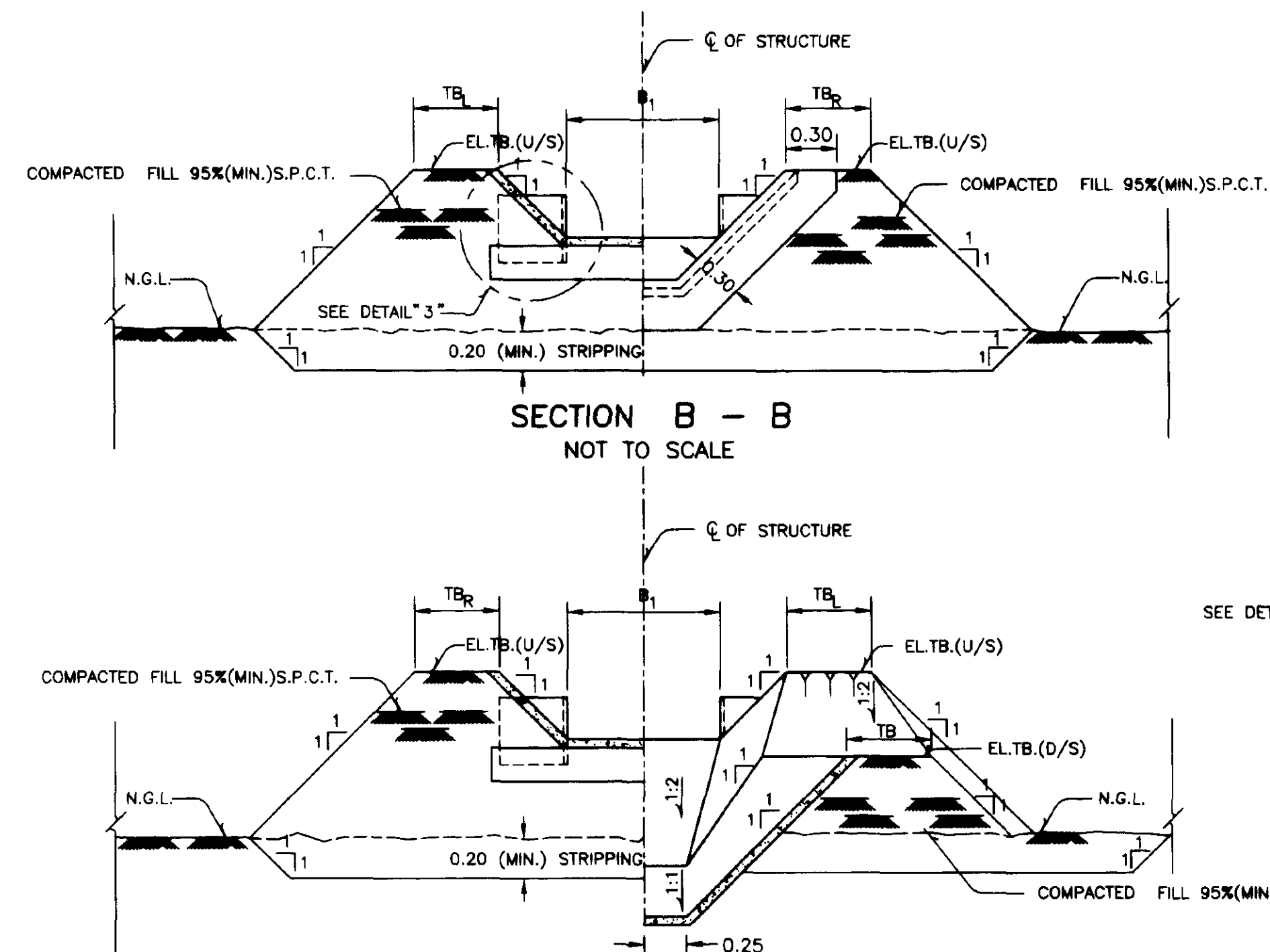


STEEL GATE
FRONT VIEW
NOT TO SCALE

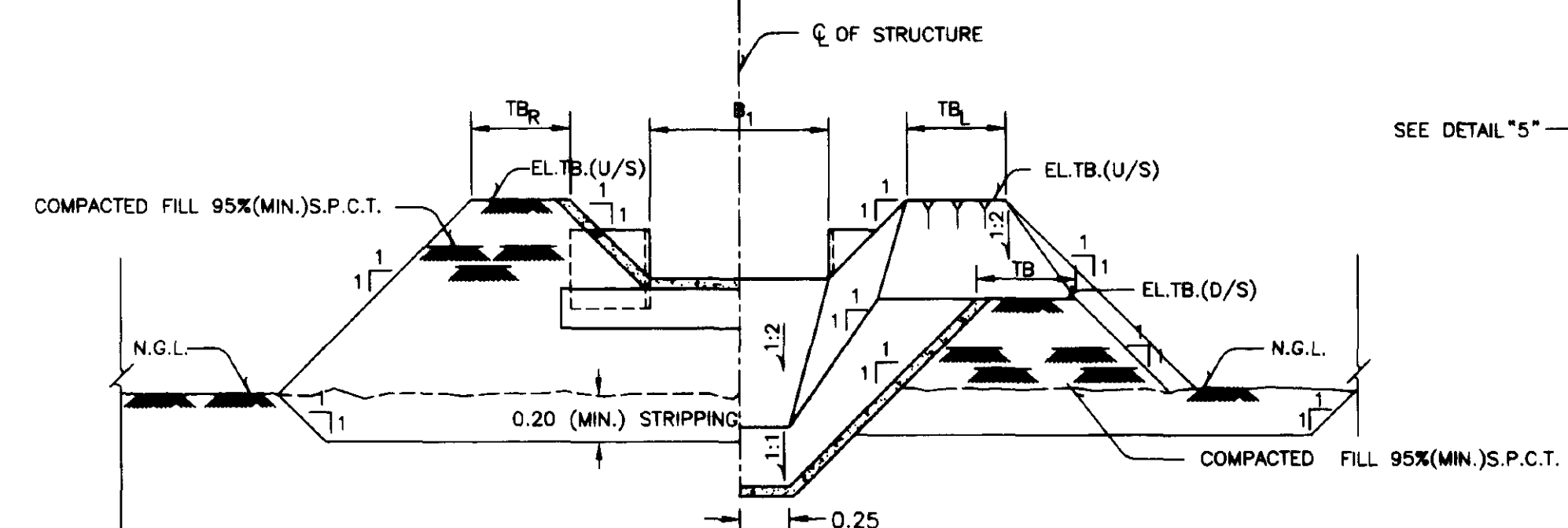


STEEL GATE
SECTION C-C
NOT TO SCALE

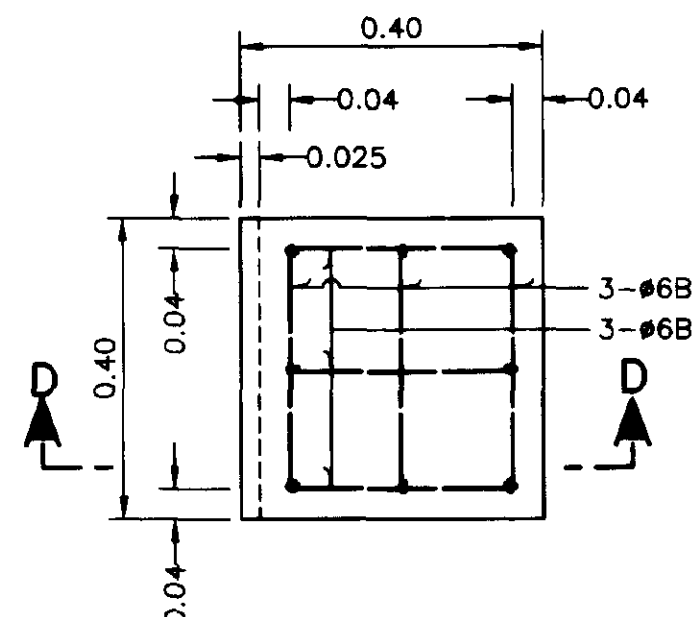
DITCH TYPE	B1 (m)
E1	0.60
E2	0.90
E3	1.10
E4	1.20
L1	0.40
L2	0.60
L3	0.70
L4	0.80



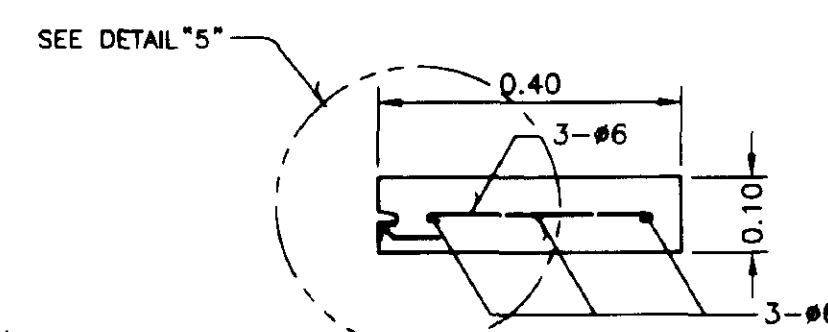
SECTION B-B
NOT TO SCALE



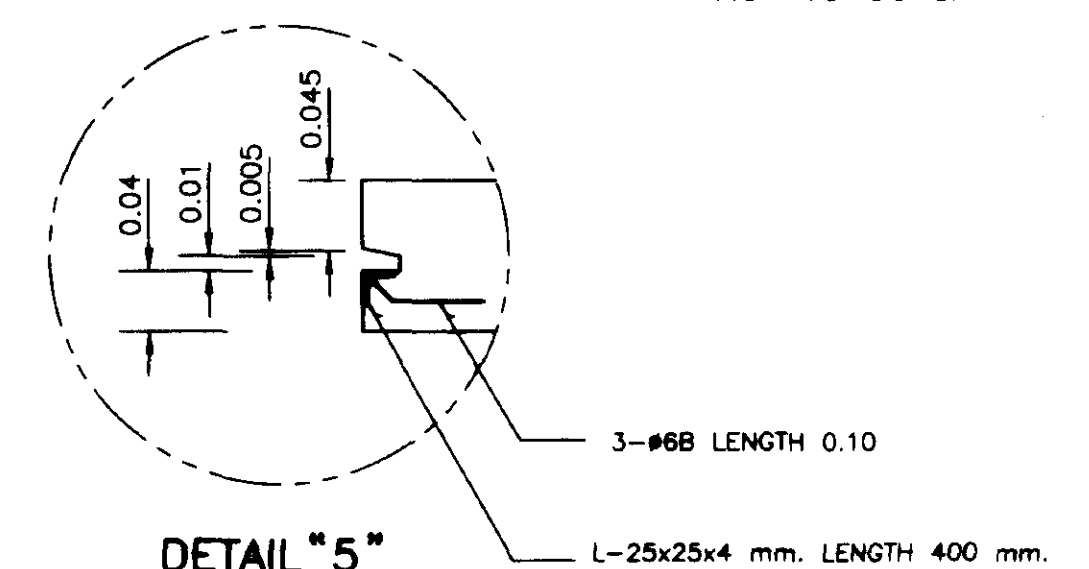
SECTION C-C
NOT TO SCALE



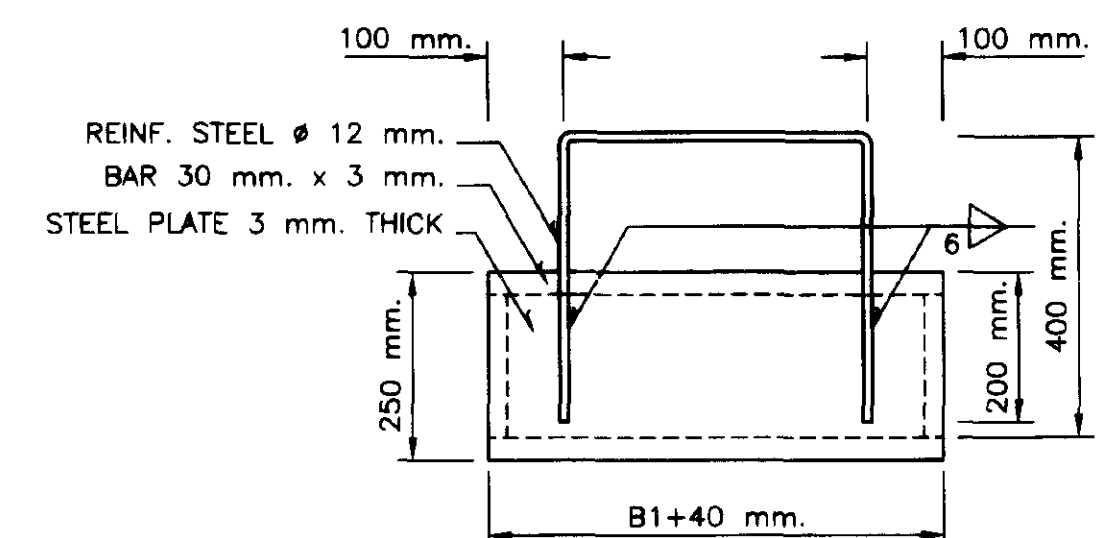
REINF. PRECAST CONC.
NOT TO SCALE



SECTION D-D
NOT TO SCALE



DETAIL "5"
NOT TO SCALE



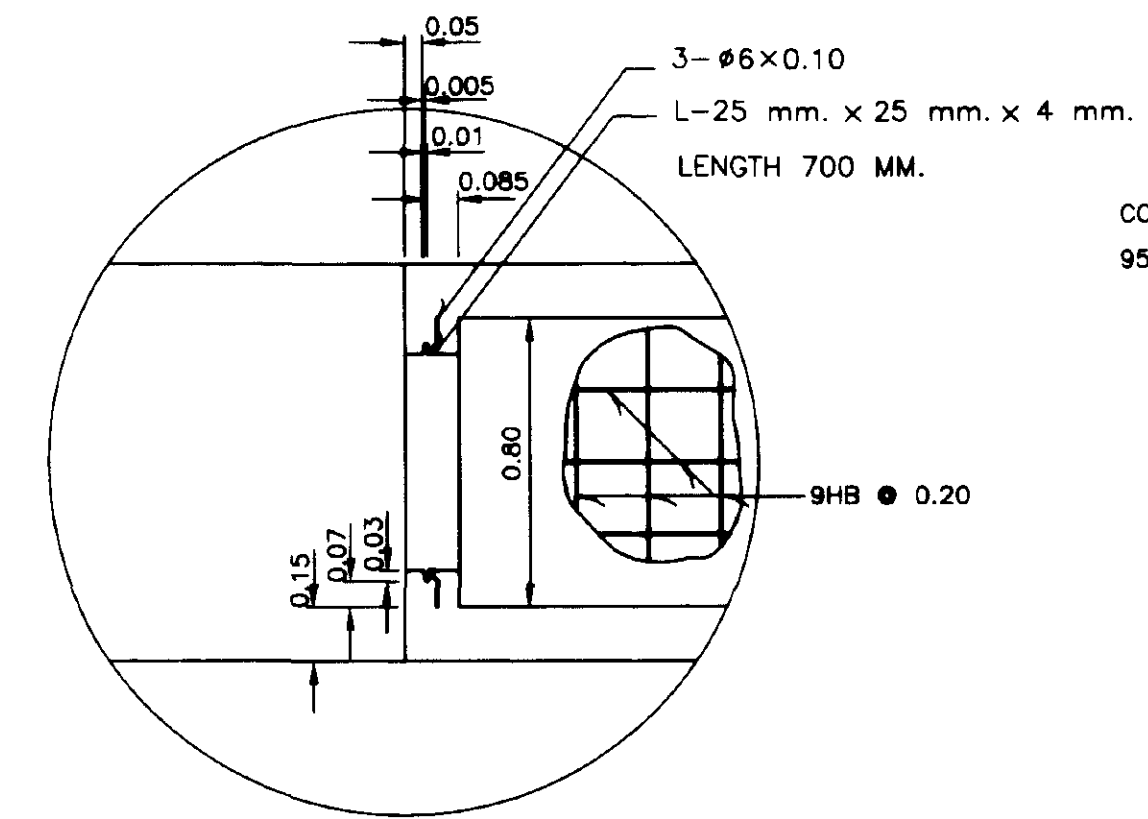
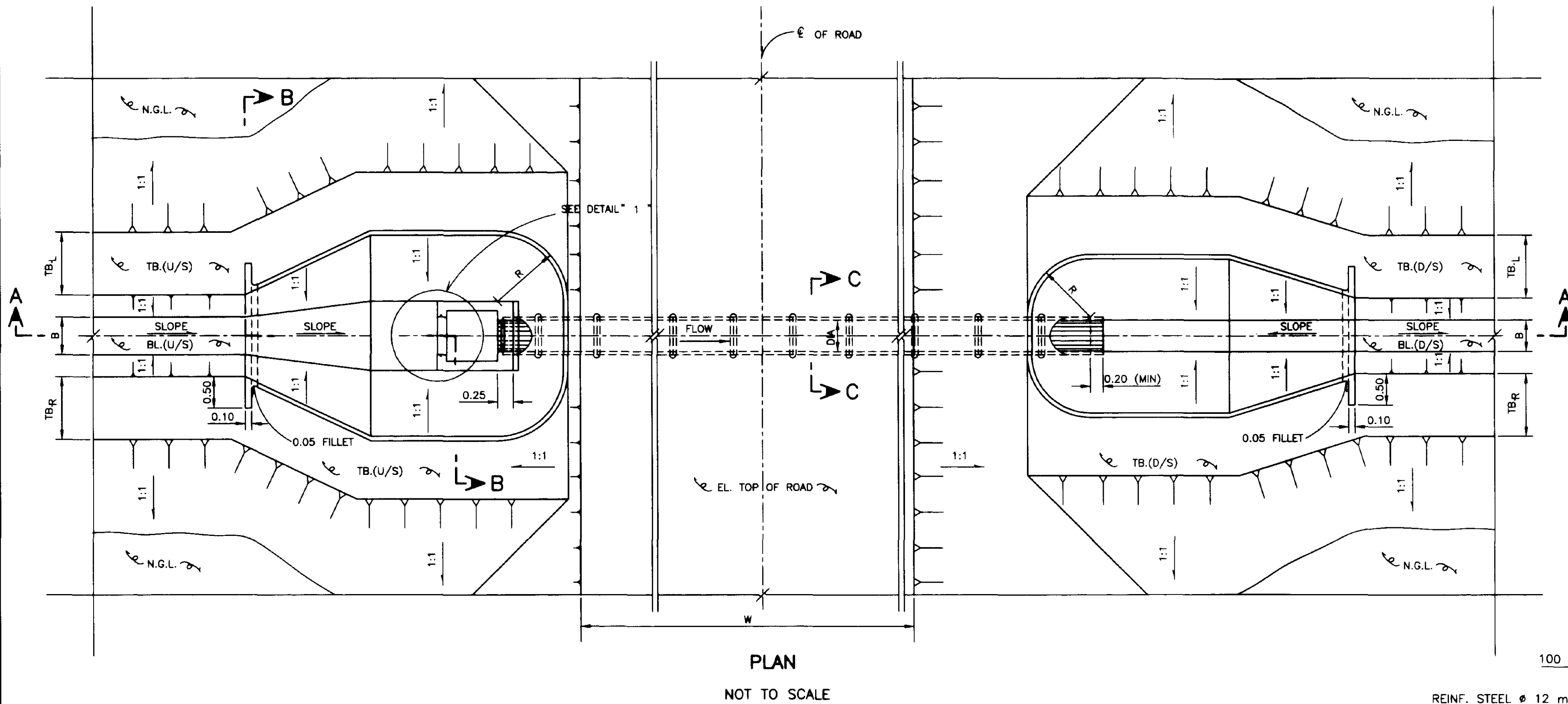
STEEL GATE
BACK VIEW
NOT TO SCALE

NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG.NO. 165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METER UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD
4. MAX. DROP NOT MORE THAN 1.00 m
5. 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.

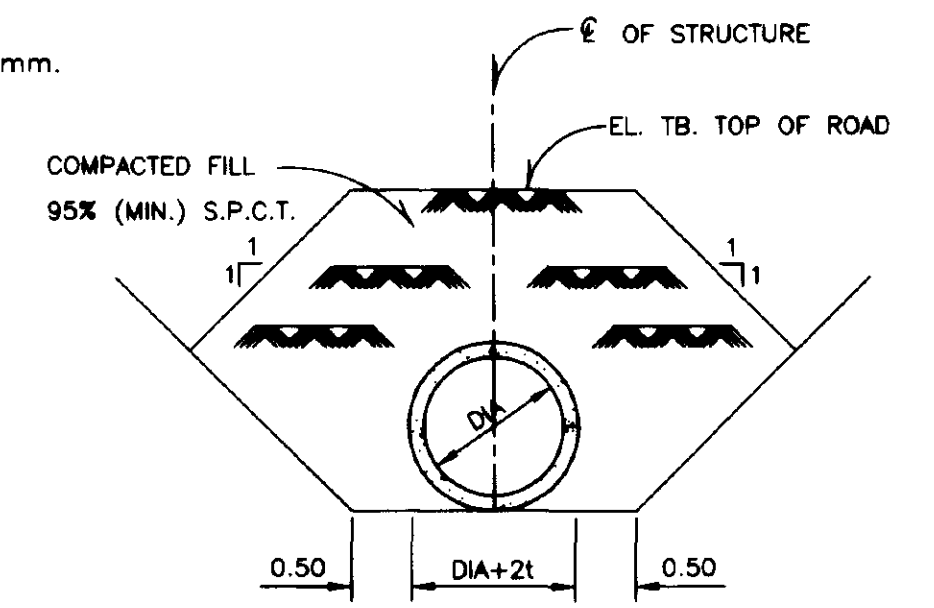
ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL CHECK DROP STRUCTURE
PLAN , SECTIONS AND DETAILS

DESIGNED	INVESTIGATED	SUBMITTED	CS.
DRAWN	REVIEWED	REVIEWED	DDD.
TRACED	RECOMMENDED	RECOMMENDED	Dir.OEDA.
CHECKED	APPROVED	APPROVED	DC.
REV. NO.	LOCATION	DESCRIPTION	DATE
CHECKED	REVIEWED	APPROVED	DATE
SUBMITTED	RECOM.		

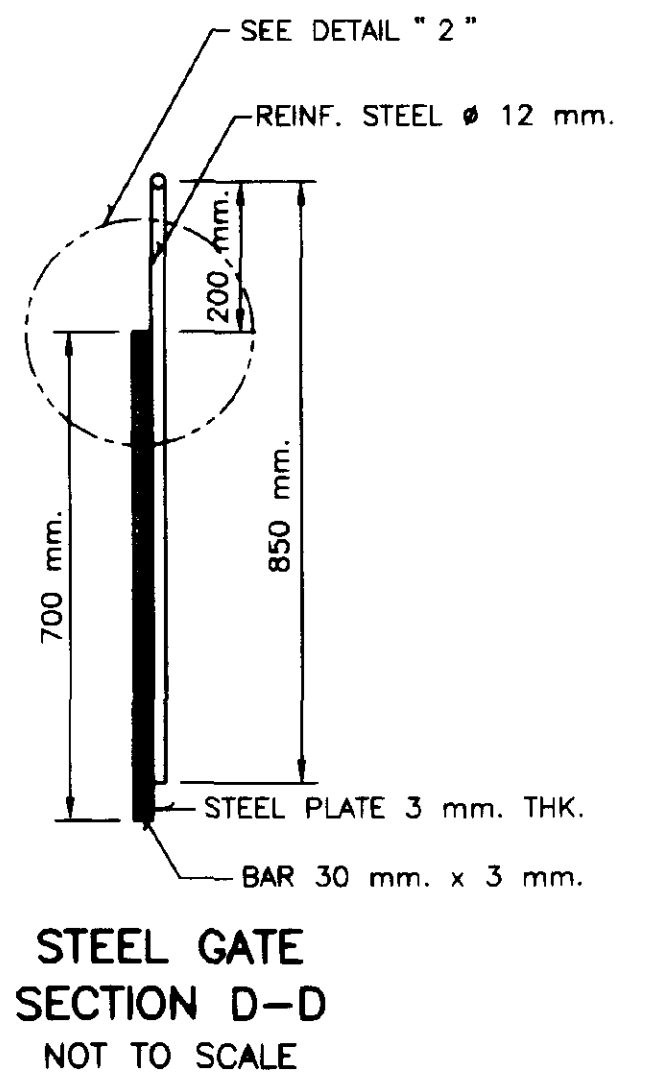
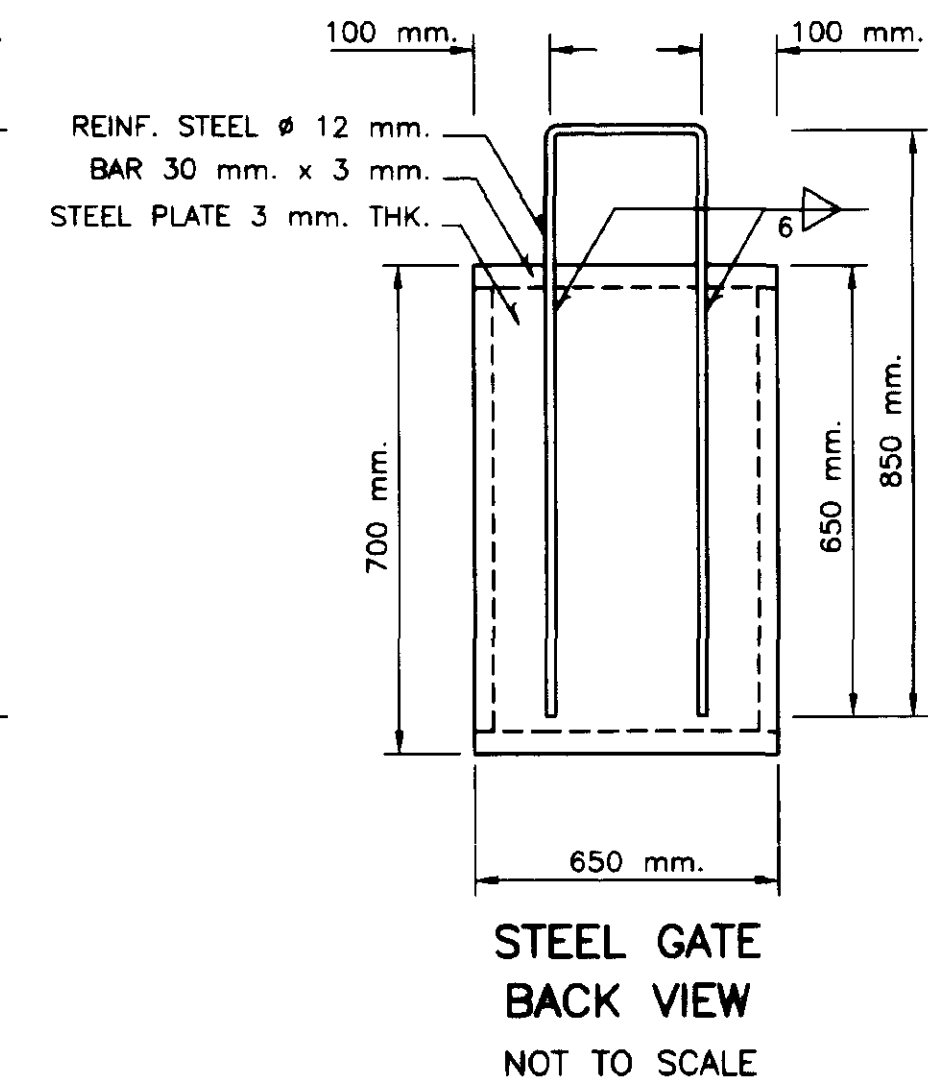
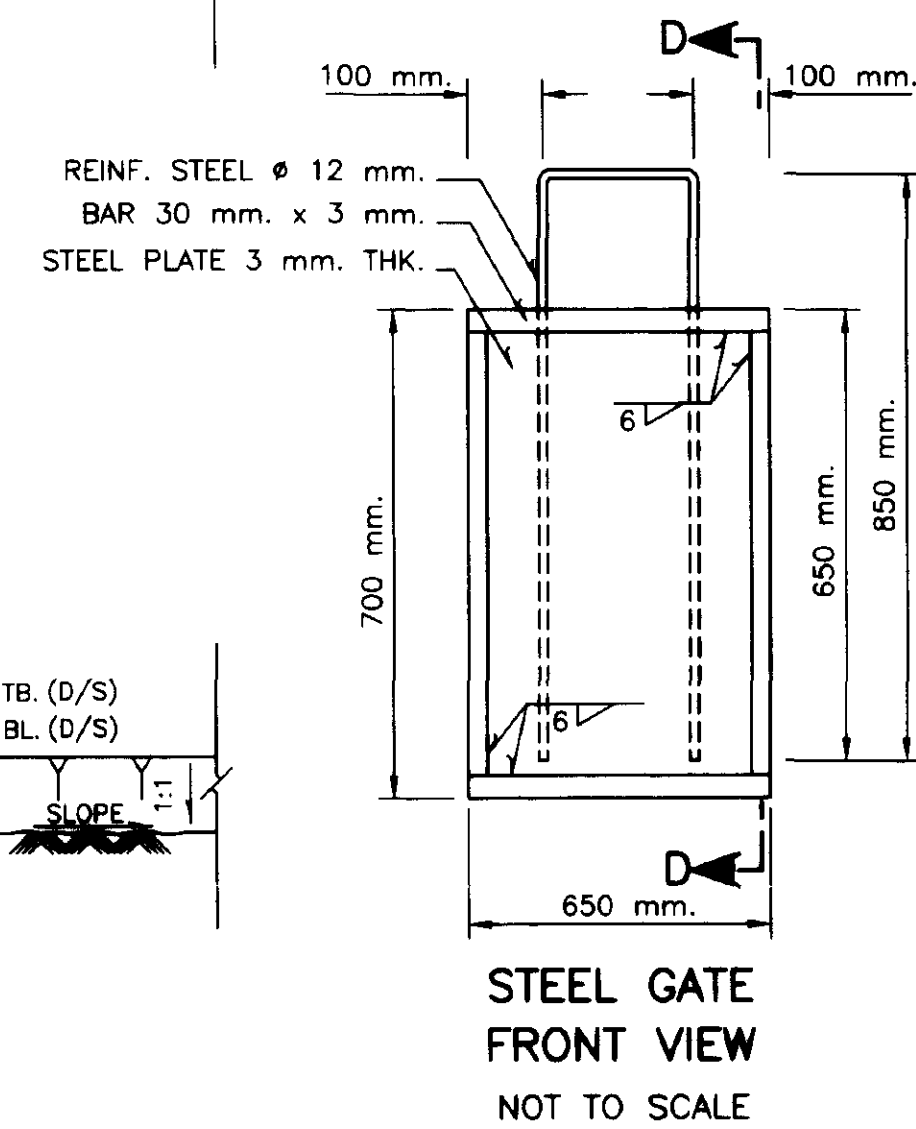
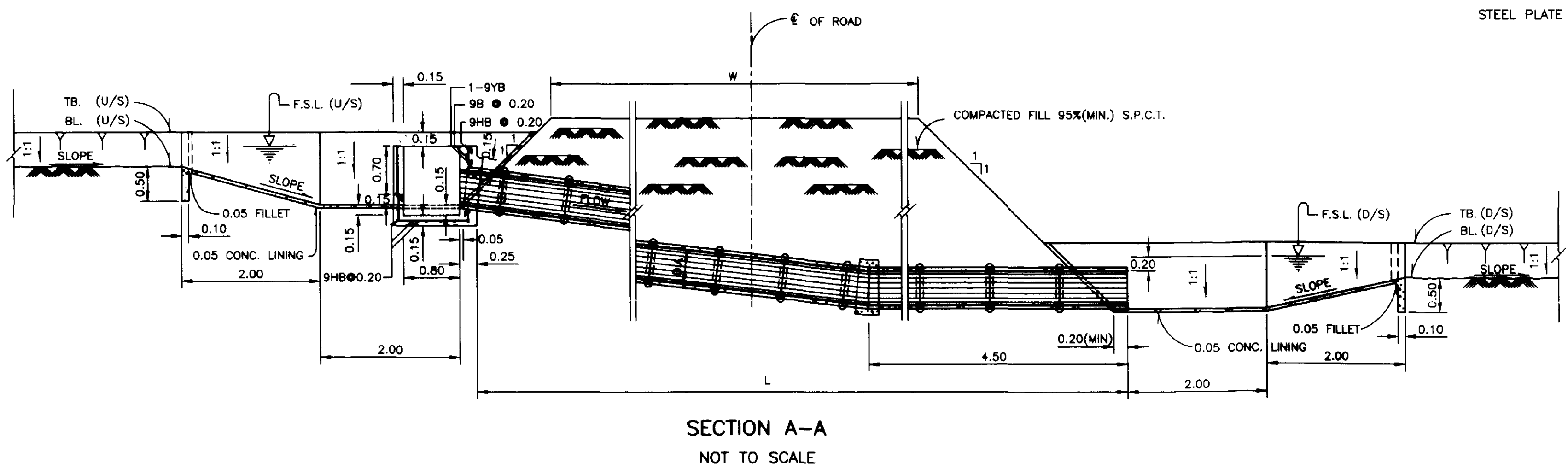


DETAIL " 1 "

NOT TO SCALE



SECTION C-C
NOT TO SCALE

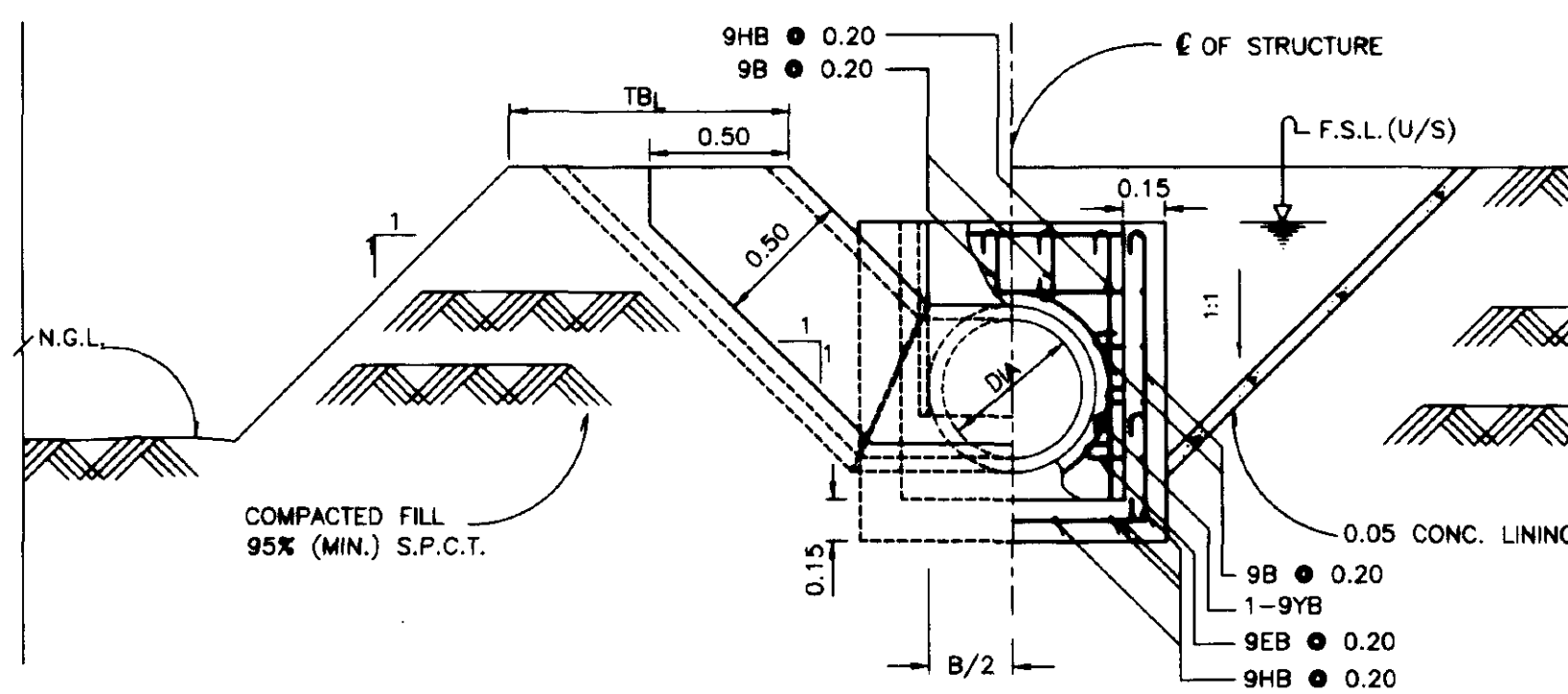


NOTES

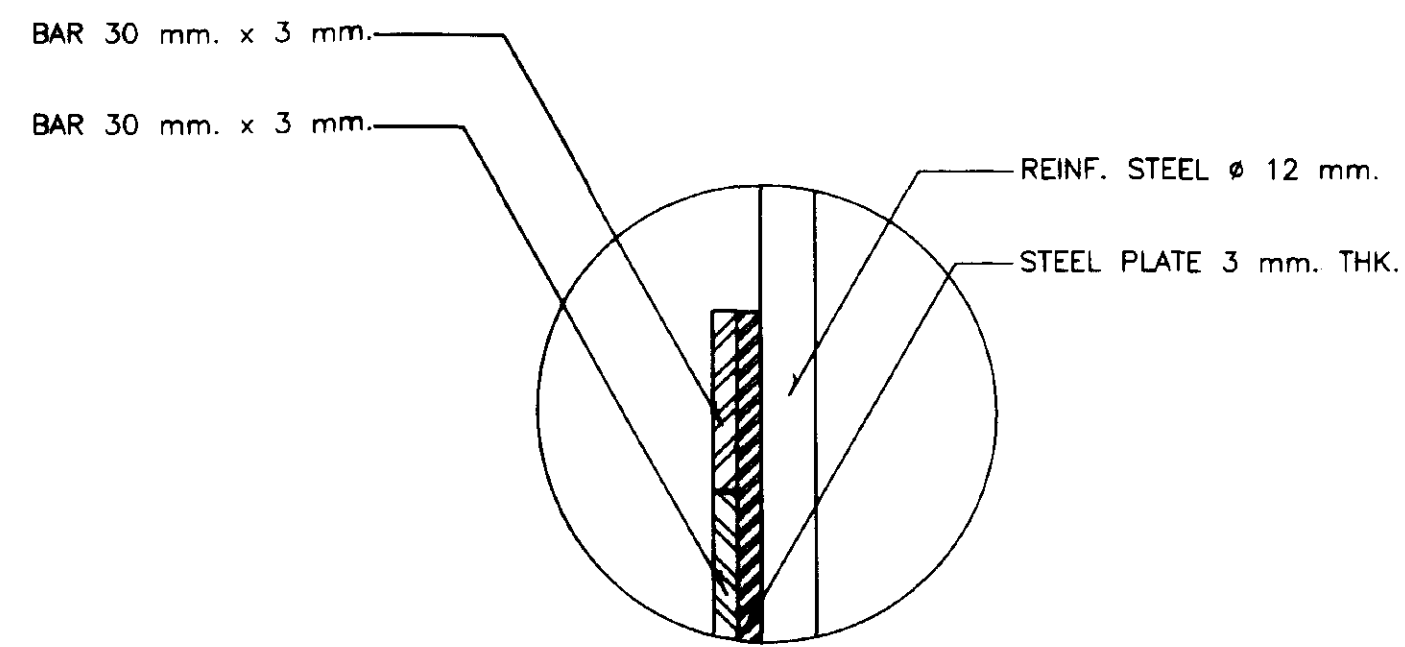
1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG. NO. 165500, 165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS , UNLESS OTHERWISE SHOWN.
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
4. THIS STRUCTURE TO BE USED IN CASE OF 0.20 M. $\leq$ F.S.L.(U/S) - F.S.L.(D/S) $\leq$ 1.50 M.
5. MAXIMUM DISCHARGE = 120 L/SEC.

REFERENCE DRAWINGS

1. REINF. PRECAST CONCRETE PIPE.....DWG. NO. 155. 2-002
2. JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. 155. 2-004



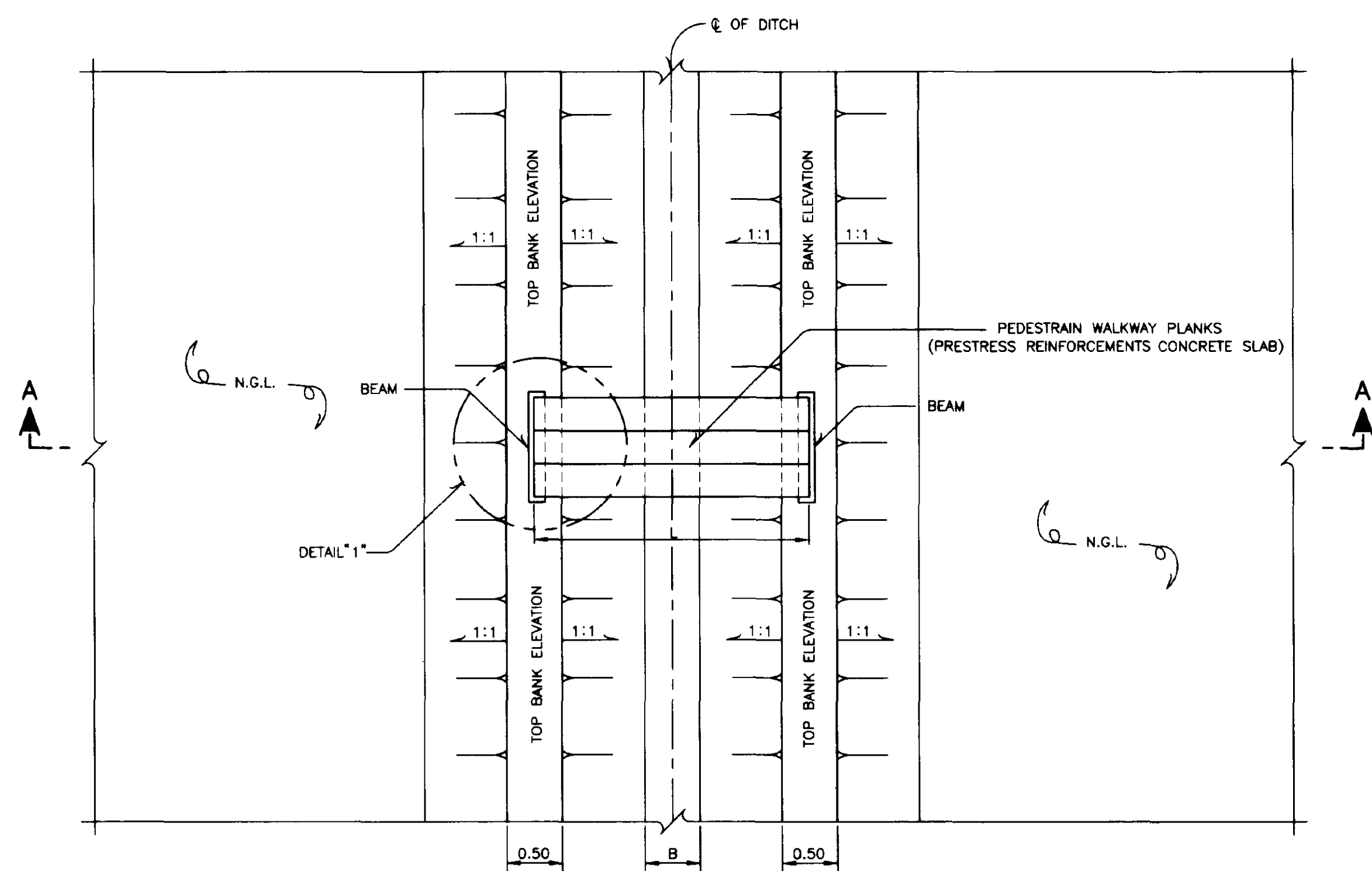
SECTION B-B
NOT TO SCALE



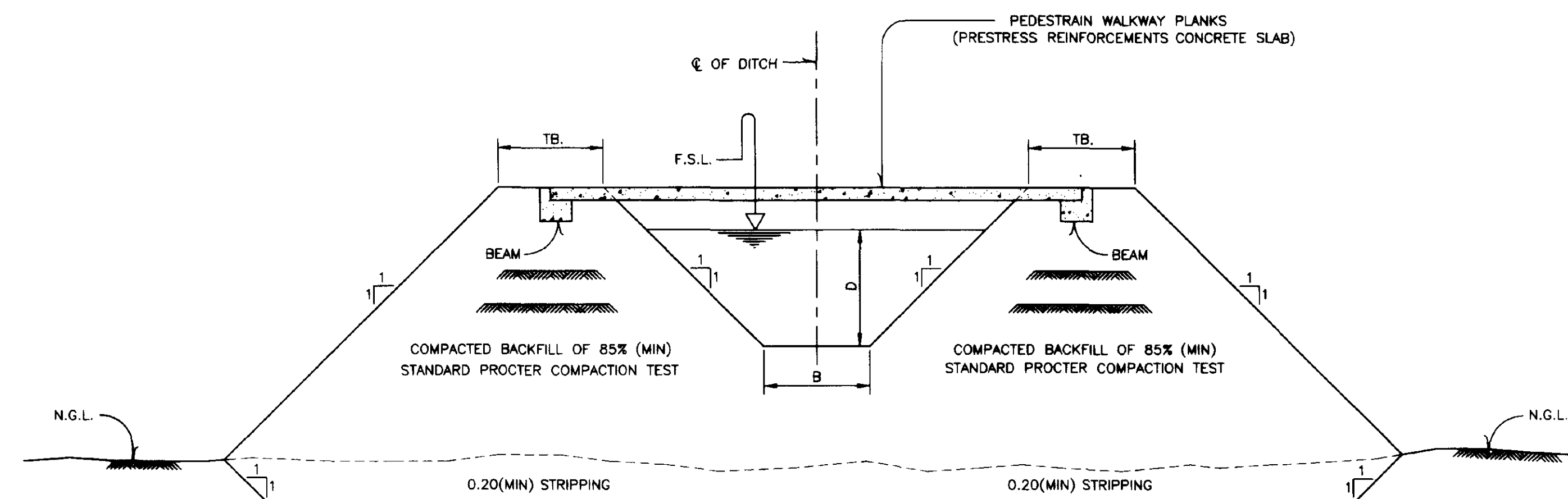
DETAIL " 2 "

NOT TO SCALE

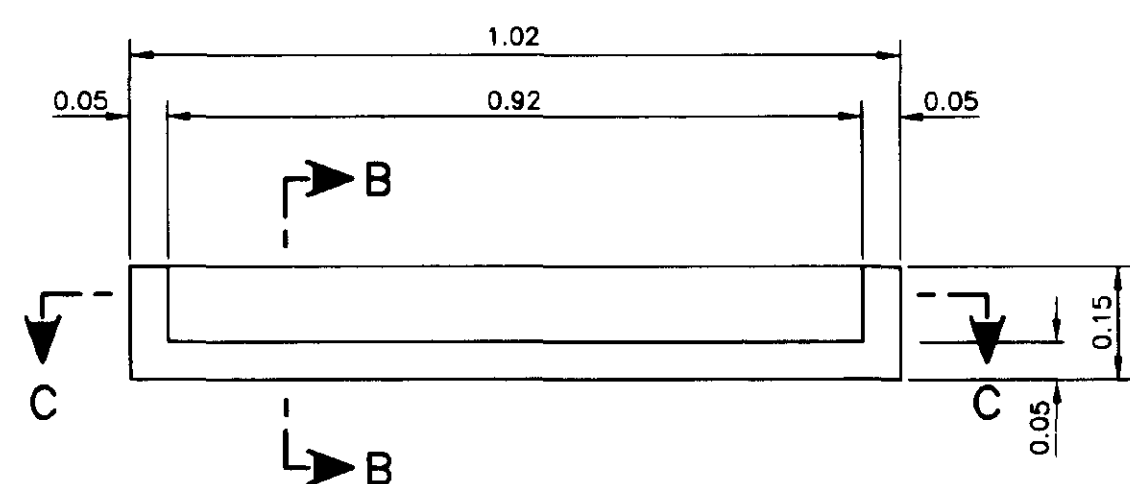
							DESIGNED	<i>Sitichai Gavila</i>	SUMMITTED	<i>Apivat Sook-ain</i>	CS.
							DRAWN	<i>Sitichai Gavila</i>	REVIEWED	<i>P. O. J. S.</i>	DDD.
							TRACED	<i>max</i>	RECOMMENDED	<i>Sawade</i>	Dir. OEDA
							CHECKED	<i>Tanapong T.</i>	APPROVED	<i>Sawade for</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUMMITTED	REVIEWED RECOMM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH			30.11.42 DATE	165529



PLAN
NOT TO SCALE



SECTION A-A
NOT TO SCALE

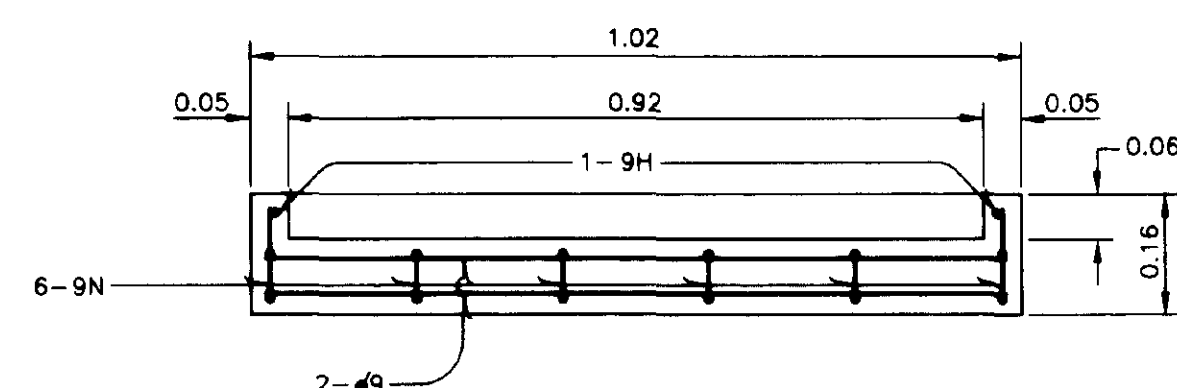


BEAM DETAIL
PLAN
NOT TO SCALE

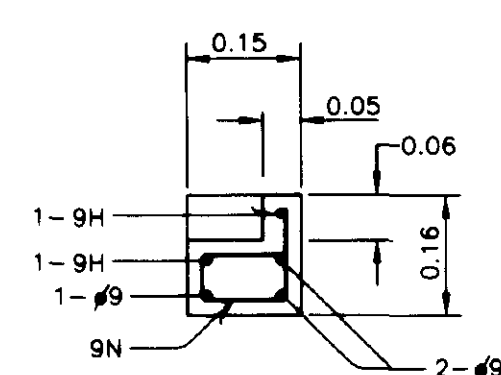
PRESTRESS REINFORCEMENTS CONCRETE SLAB
(PC WIRE FOLLOW STANDARD IS:1201.95-2534)

PRESTRESS REINFORCEMENTS CONCRETE SLAB DETAIL

PLAN
NOT TO SCALE



SECTION C-C
NOT TO SCALE



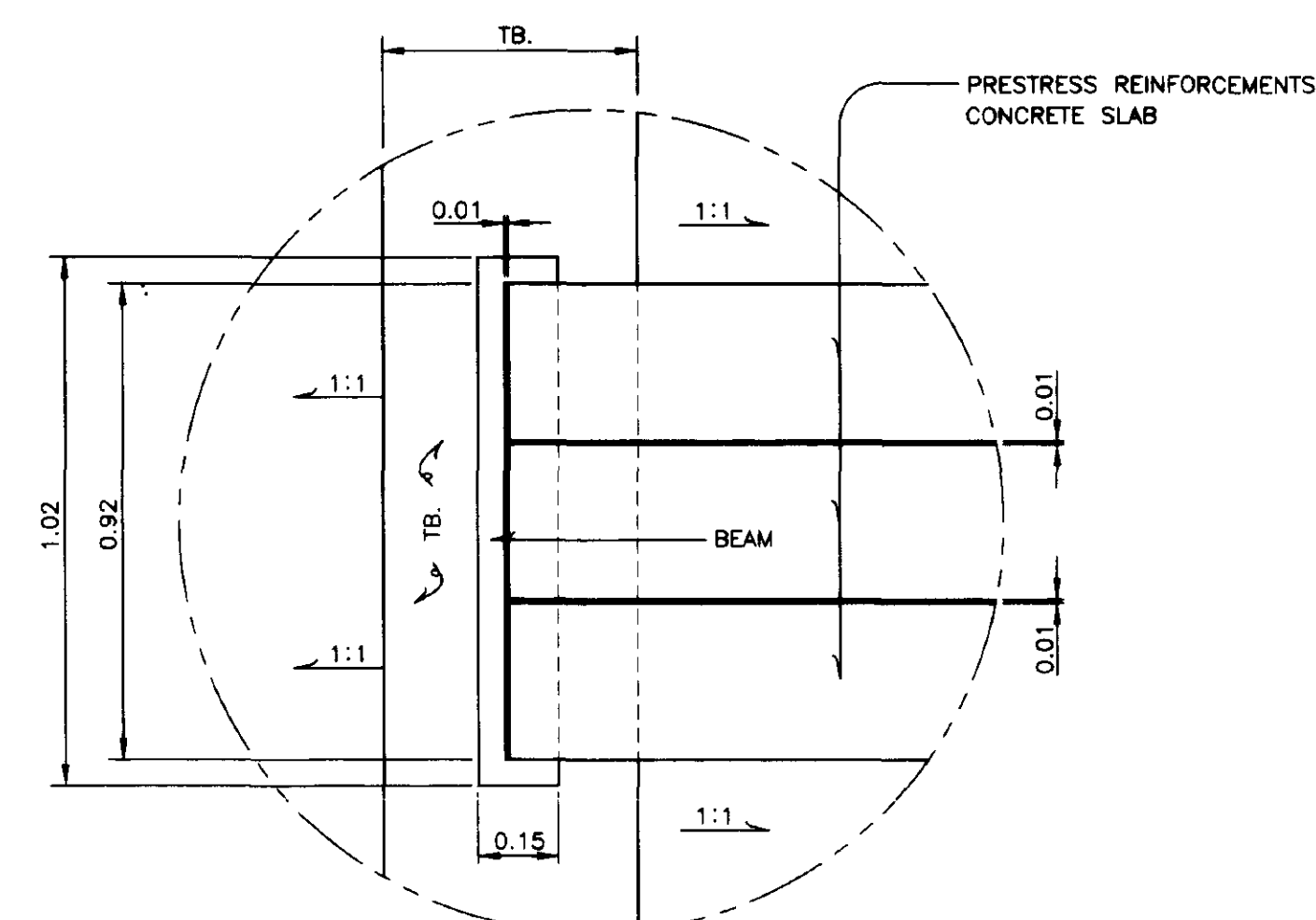
SECTION B-B
NOT TO SCALE

PRESTRESS REINFORCEMENTS CONCRETE SLAB
(PC WIRE FOLLOW STANDARD IS:1201.95-2534)

SECTION E-E
NOT TO SCALE

PRESTRESS REINFORCEMENTS CONCRETE SLAB
(PC WIRE FOLLOW STANDARD IS:1201.95-2534)

SECTION D-D
NOT TO SCALE



DETAIL "1"
NOT TO SCALE

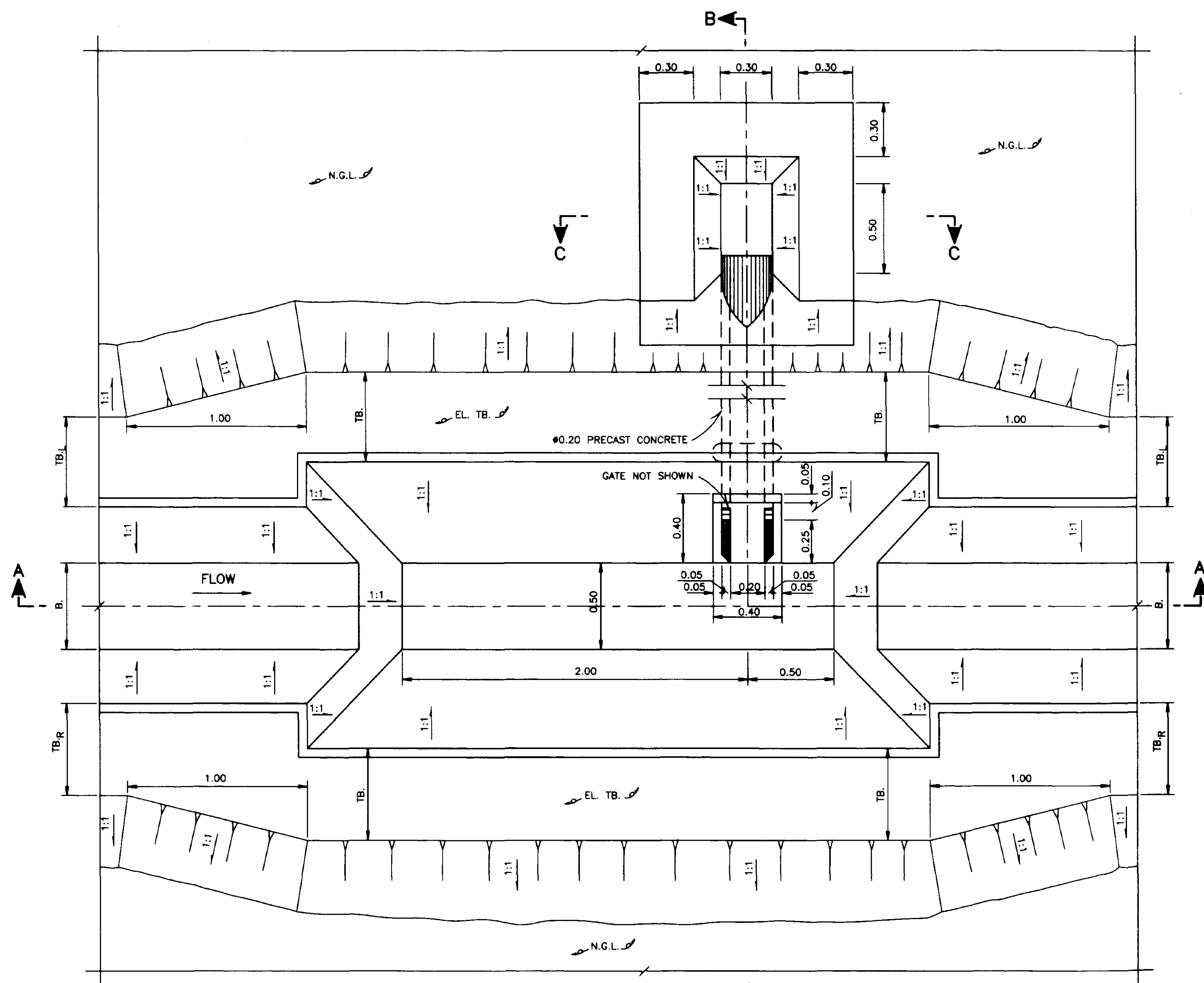
- NOTE**
1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG.NO. 165500, 165501
 2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS.
 3. LOCATION AND ARRANGEMENT OF WALKWAY PLANK TO BE DETERMINED IN THE FIELD.

TABLE OF FIXED DIMENSIONS

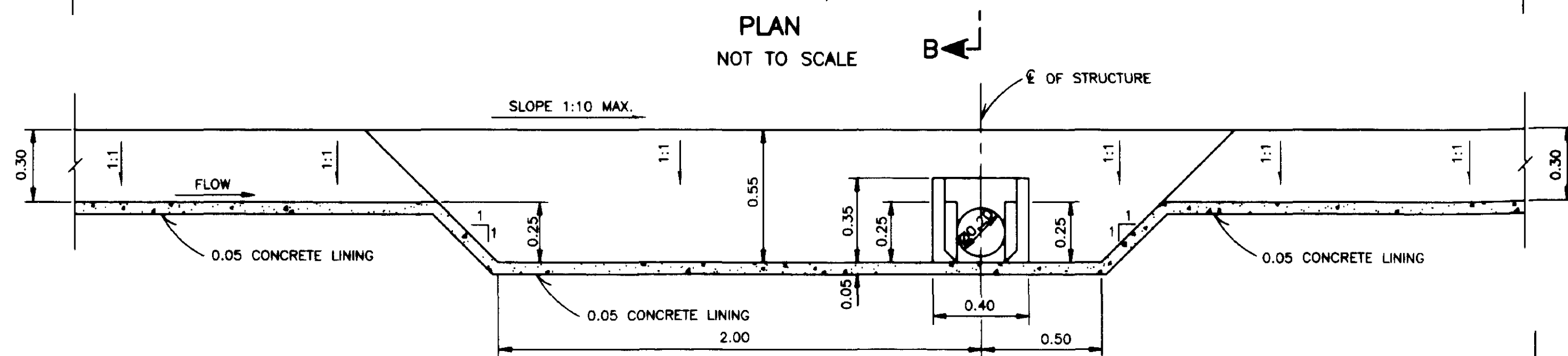
TYPE	L (m)	TYPE	L (m)	TYPE	L (m)
E1	2.00	L1	2.00	SL1	1.50
E2	2.50	L2	2.00	SL2	1.50
E3	2.50	L3	2.00	SL3	2.00
E4	2.50	L4	2.50	SL4	2.00

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL WALKWAY PLANKS
PLAN, SECTIONS AND REINFORCEMENT DETAILS

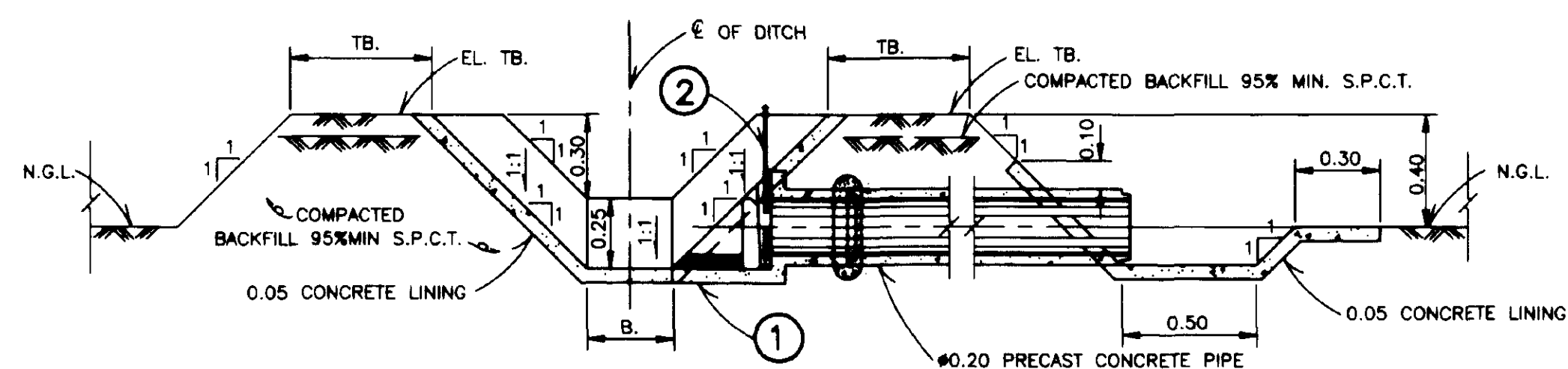
DESIGNED	Manish	SUBMITTED	Yuttama phillipsamit	CS.
DRAWN	Manish	REVIEWED	Manish	DDD.
TRACED	Manish	RECOMMENDED	Manish	Dir. OEDA.
CHECKED	Yuttama phillipsamit	APPROVED	Manish	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOM. APPROVED



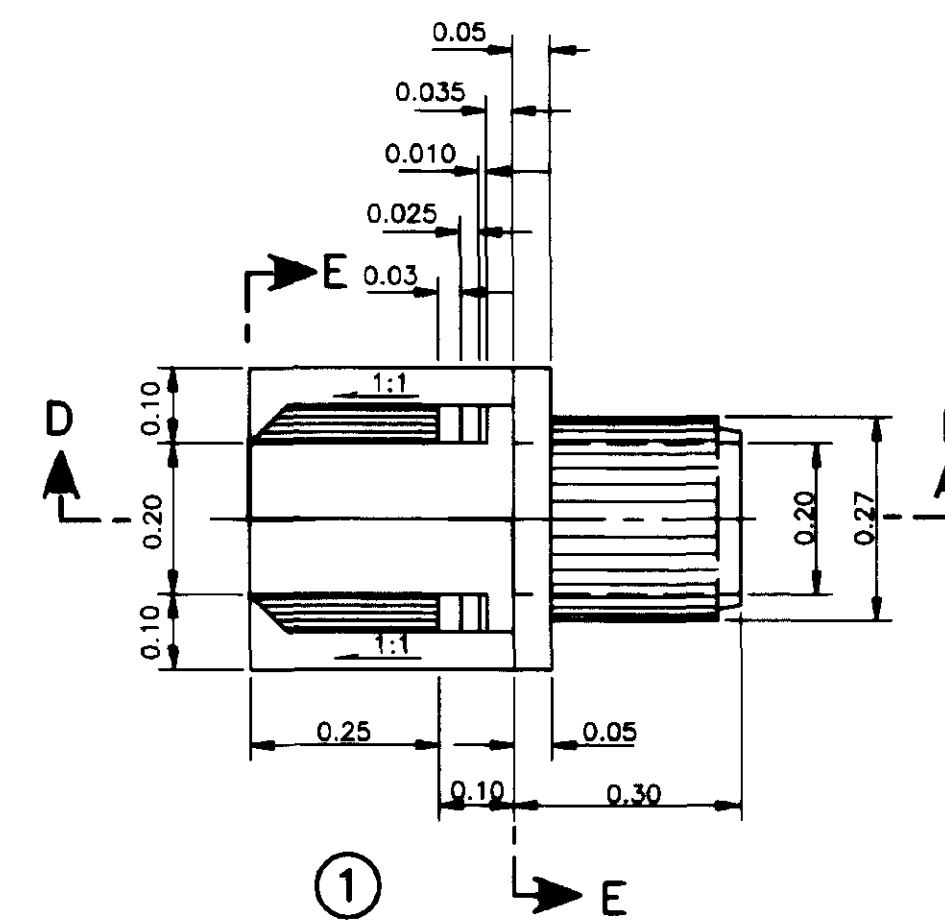
PLAN
NOT TO SCALE



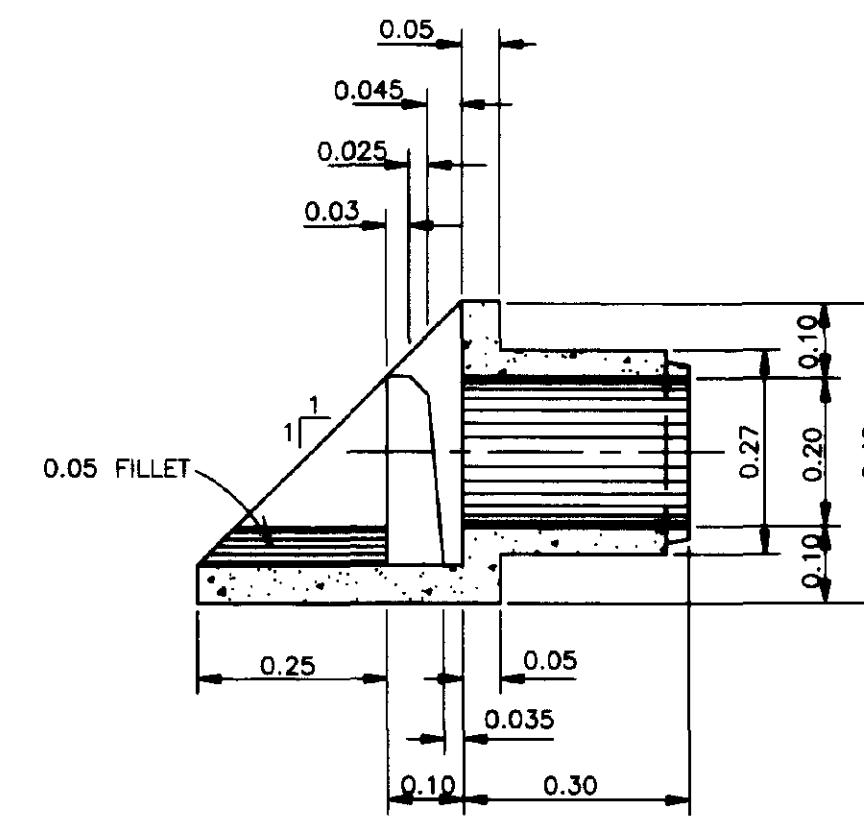
SECTION A-A
NOT TO SCALE



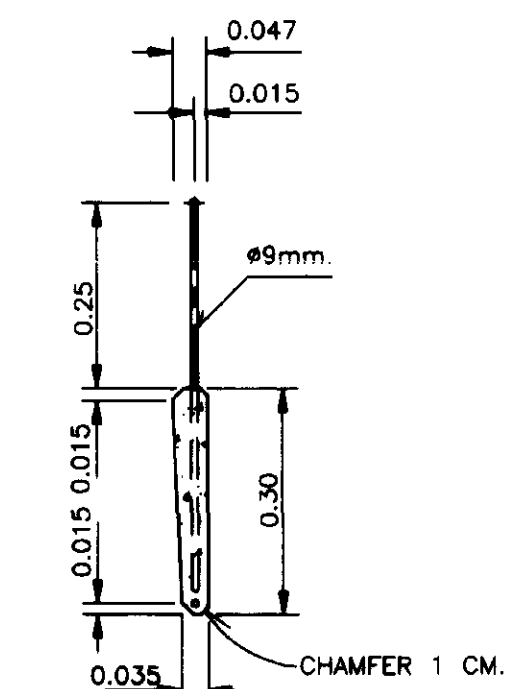
SECTION B-B
NOT TO SCALE



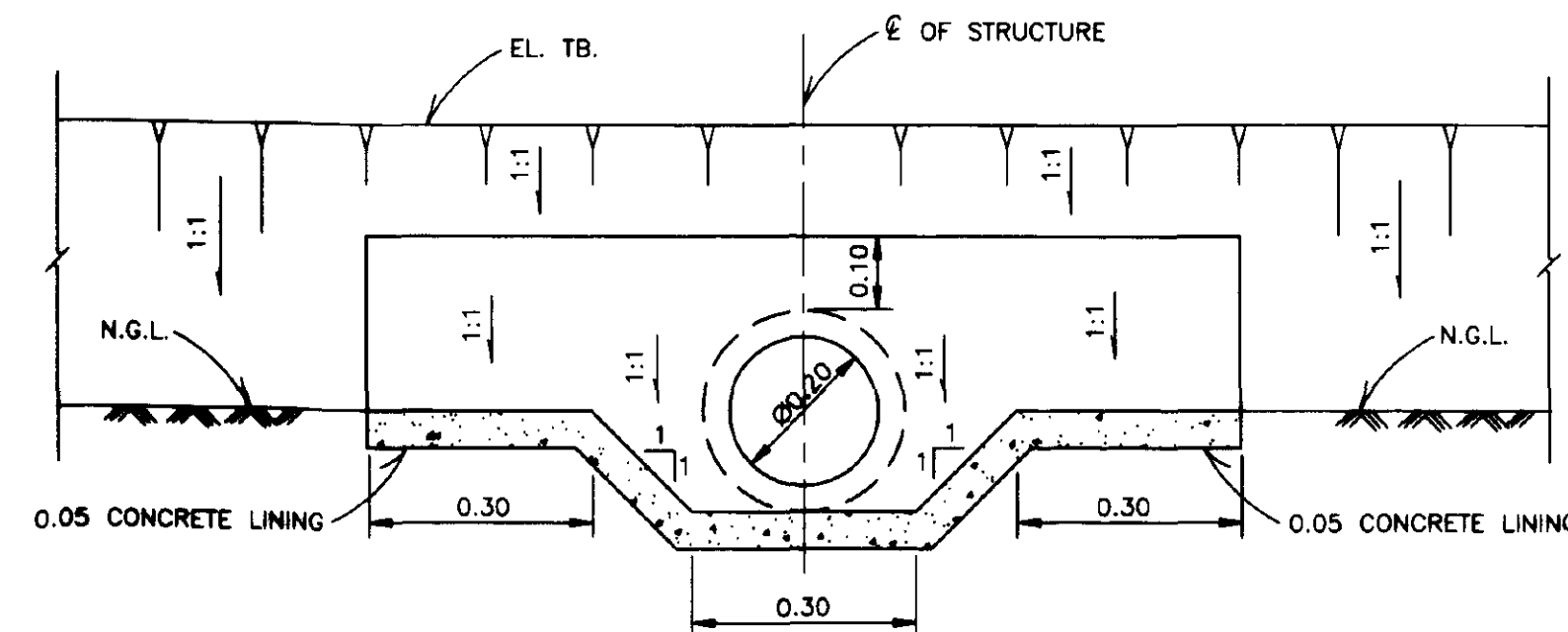
PLAN OF INLET PIPE
NOT TO SCALE



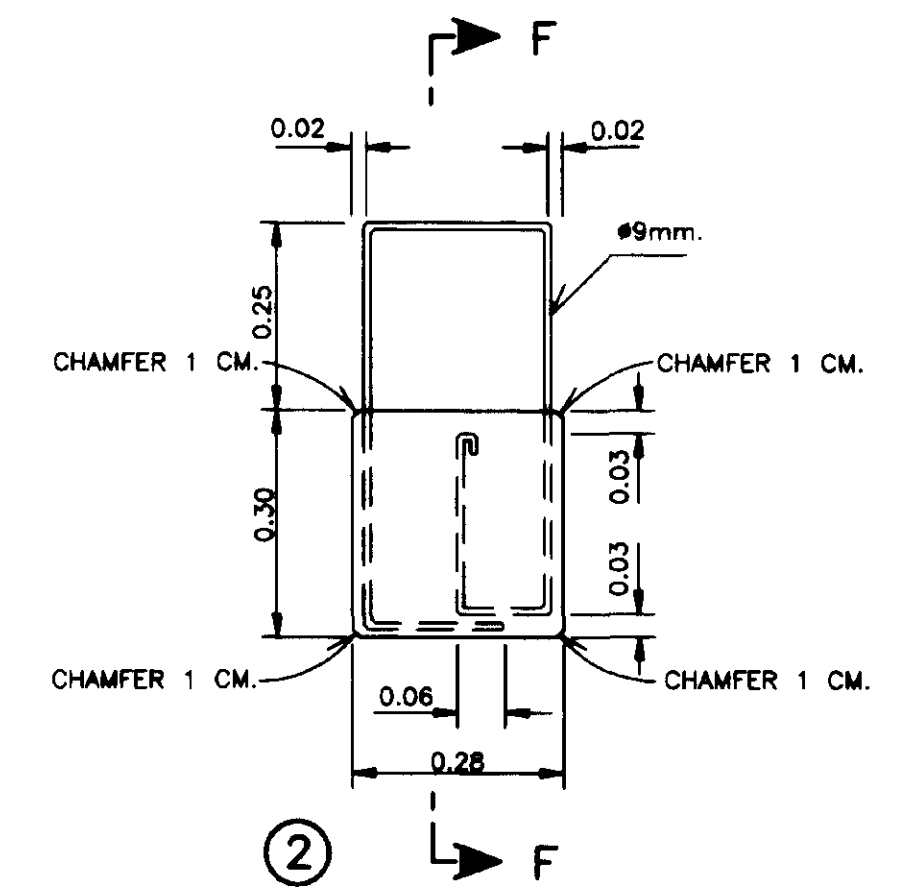
SECTION D-D
NOT TO SCALE



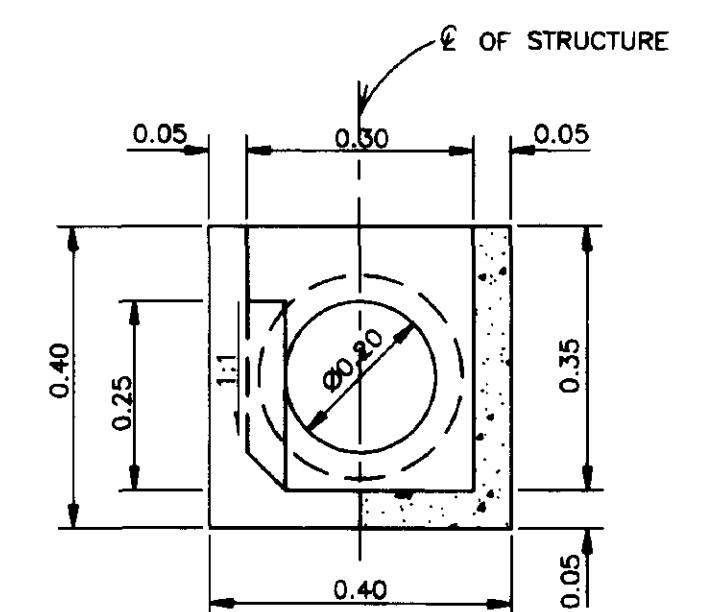
SECTION F-F
NOT TO SCALE



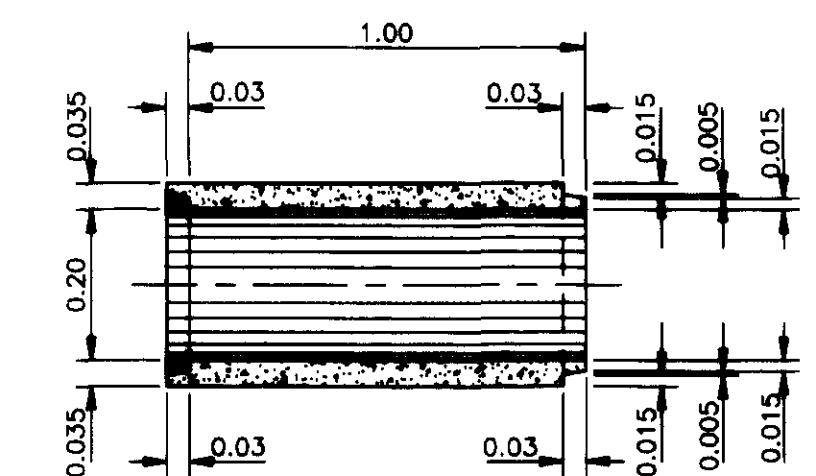
SECTION C-C
NOT TO SCALE



REINF. CONC. GATE
NOT TO SCALE



SECTION E-E
NOT TO SCALE



PRECAST CONCRETE PIPE (TOUNGUE AND GROOVE TYPE)
DIA. 0.20 M.
NOT TO SCALE

NOTES

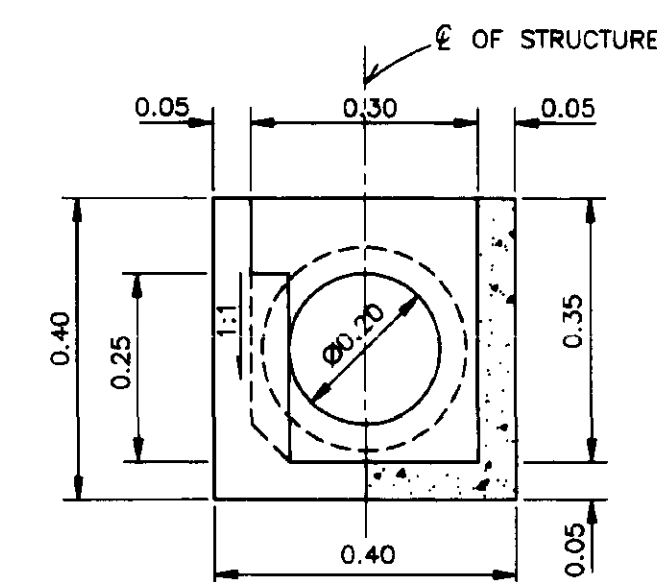
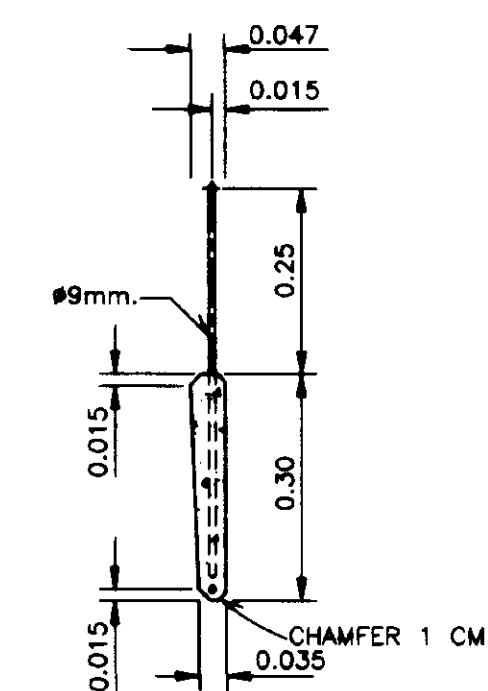
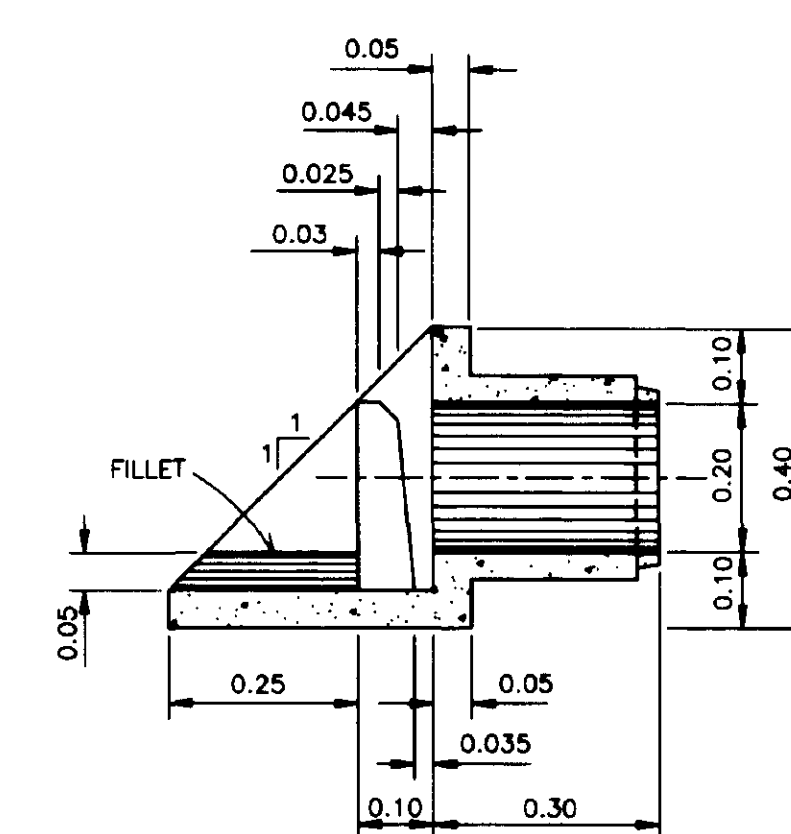
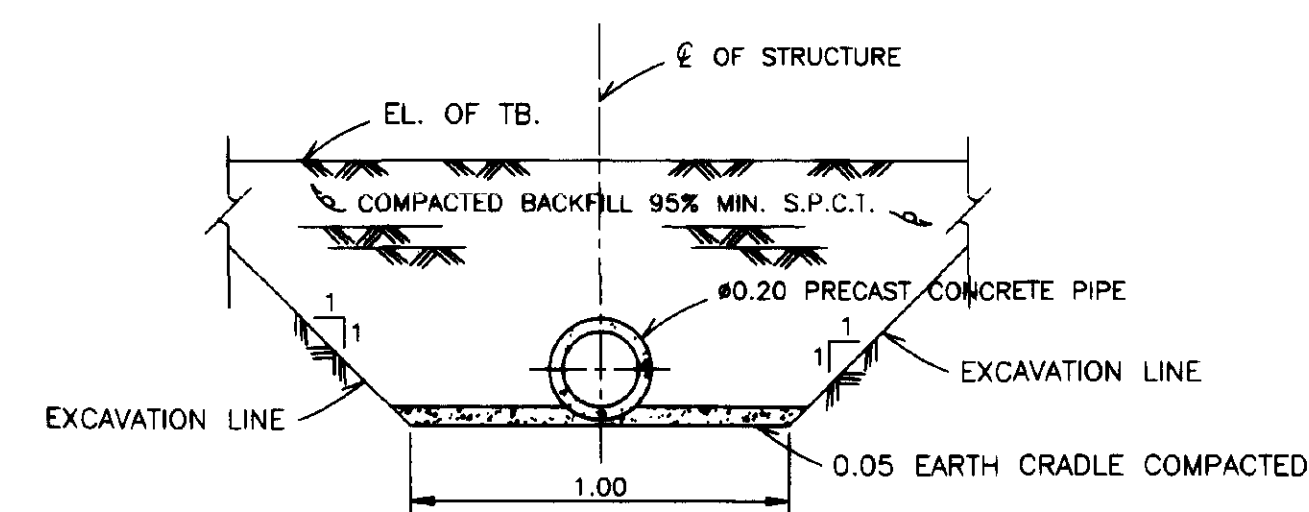
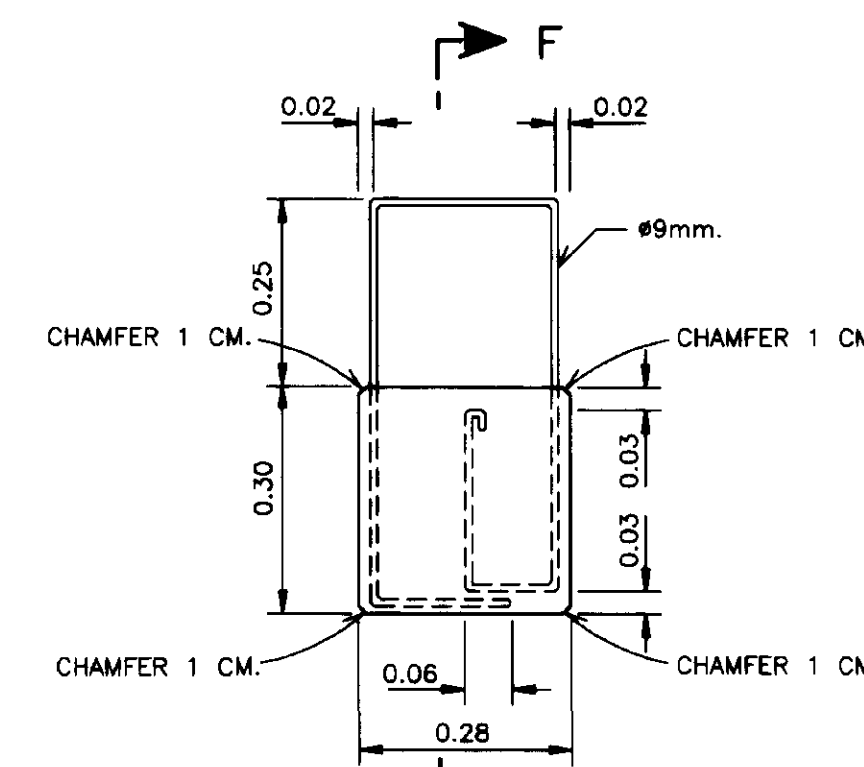
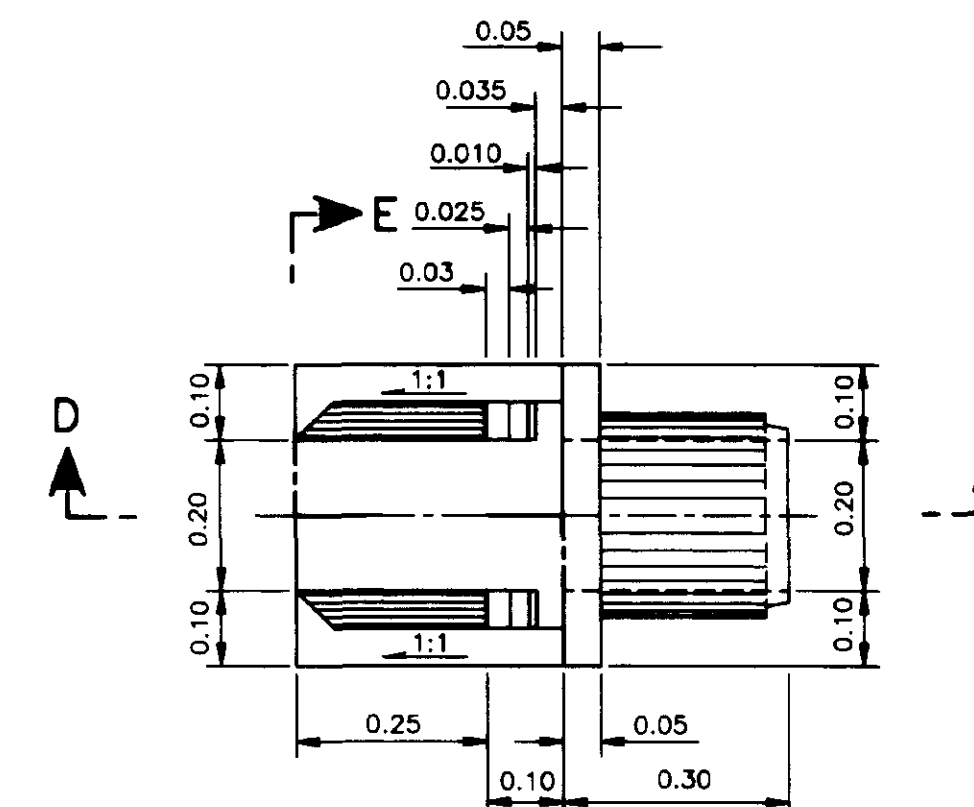
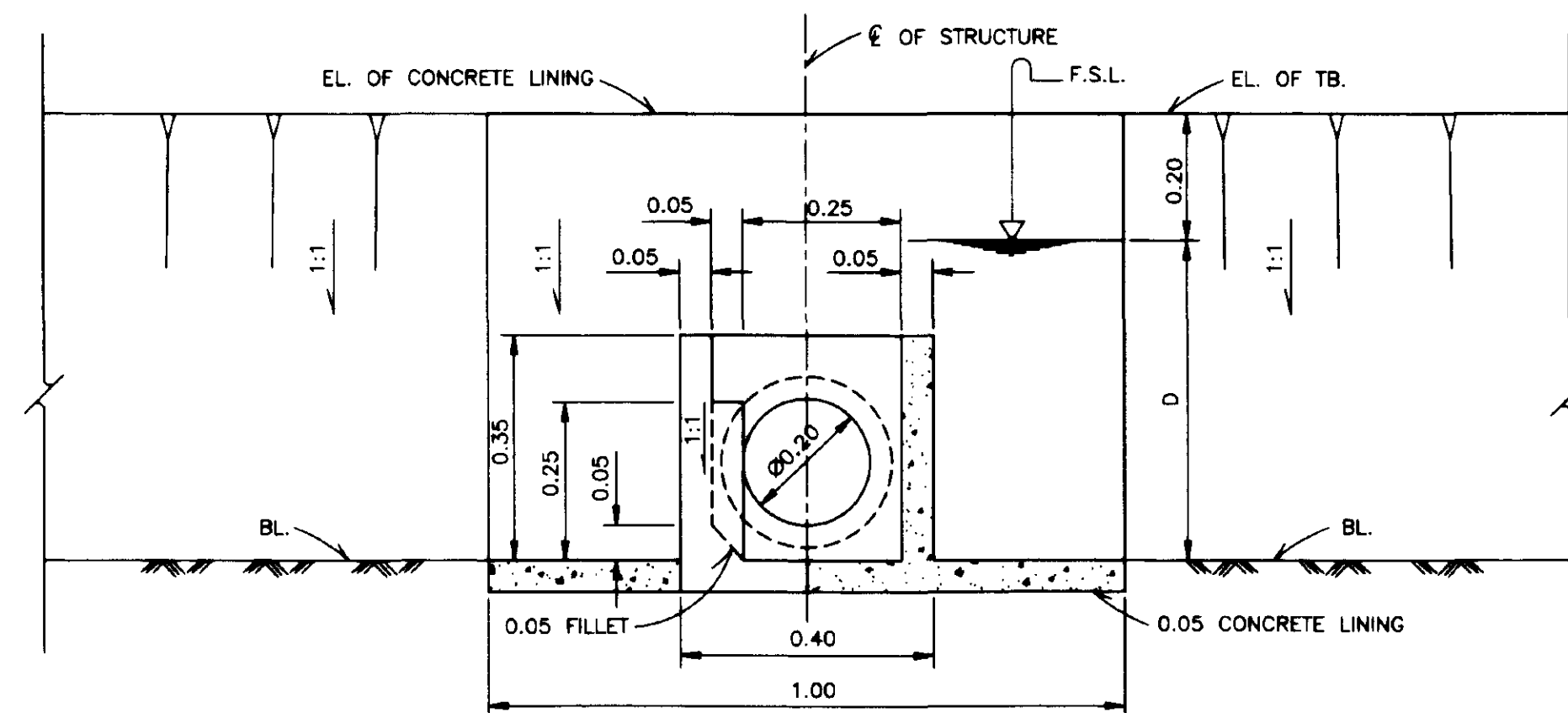
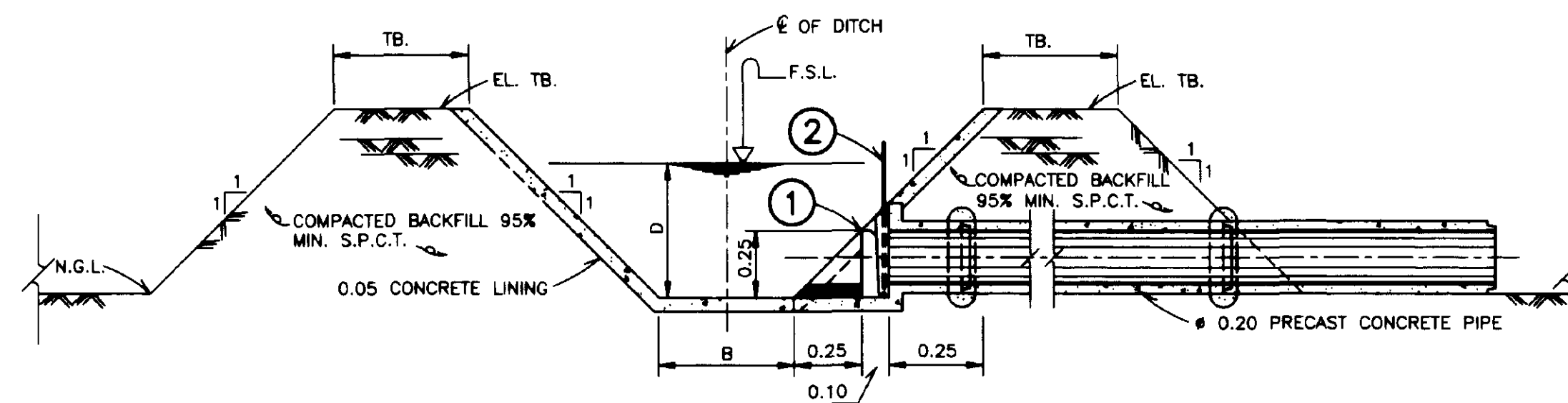
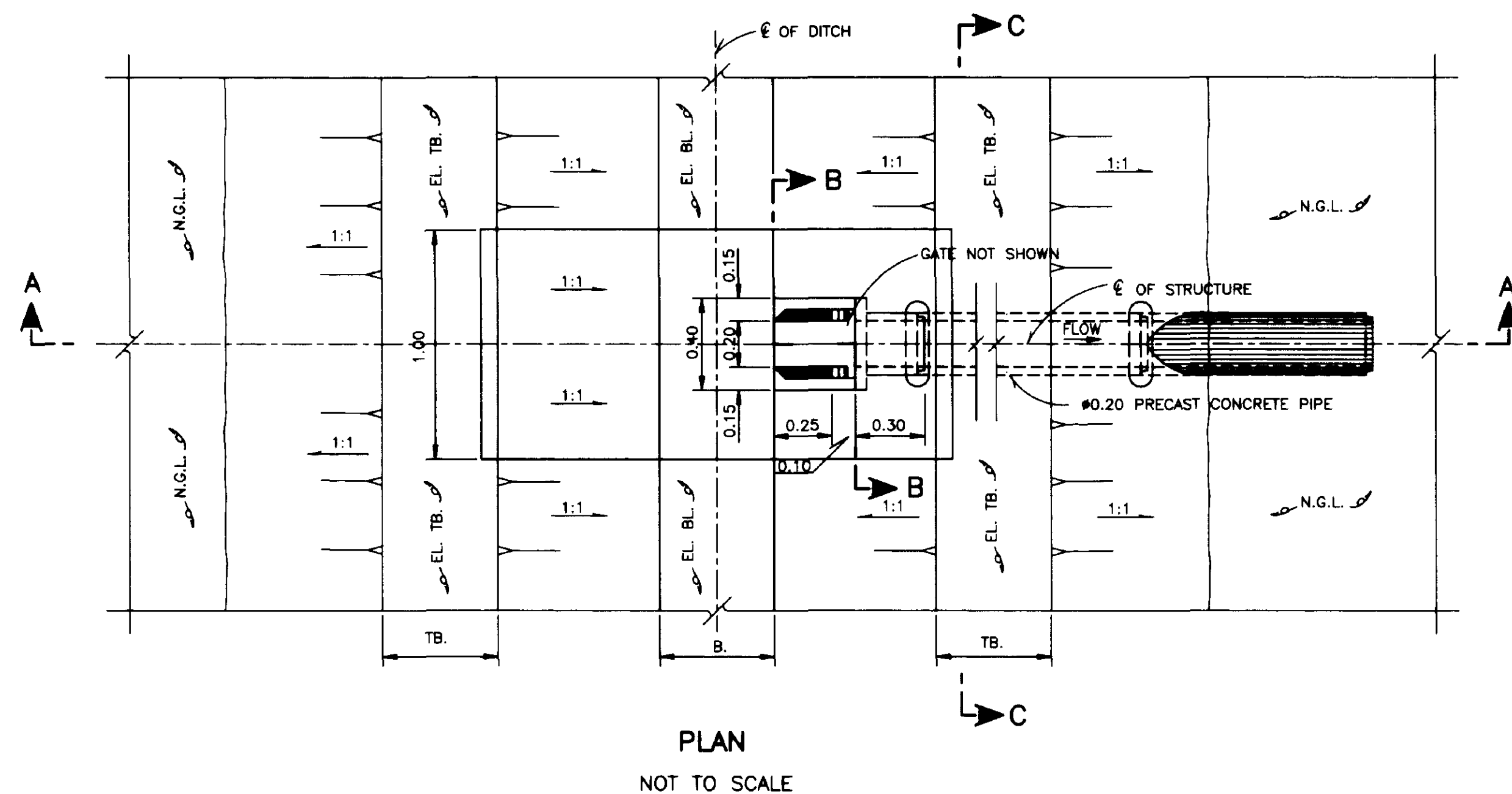
1. FOR GENERAL NOTES AND LEGEND REFER TODWG. NO. 165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN.
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.
4. FARM INLET CAN BE PLACED AT BOTH SIDE OF DITCH.

REFERENCE DRAWINGS

JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. 15B-2-004

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL FARM INLET IN STEEP SLOPE
PLAN, SECTION AND DETAILS

							DESIGNED	<i>S. S. Suman</i>	SUBMITTED	<i>N. N. Suman</i>	CS.
							DRAWN	<i>S. S. Suman</i>	REVIEWED	<i>B. B. Suman</i>	DDD.
							TRACED	<i>S. S. Suman</i>	RECOMMENDED	<i>S. S. Suman</i>	Dir. O.E.D.
							CHECKED	<i>N. N. Suman</i>	APPROVED	<i>S. S. Suman</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				
							DATE	3.11.42		165531	



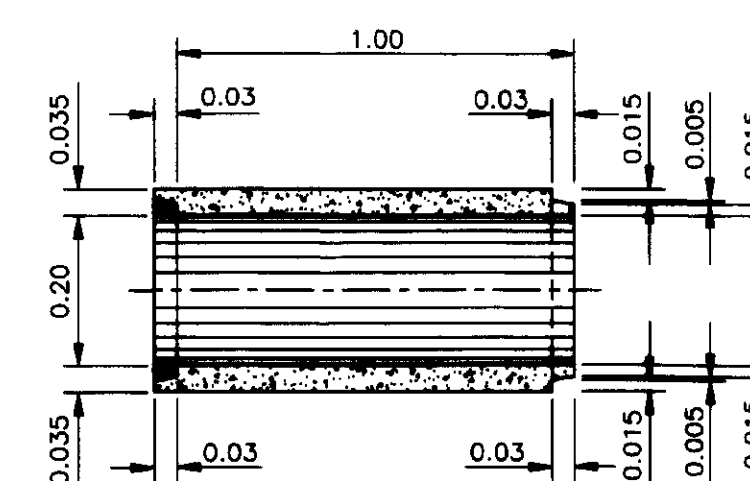
NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TODWG. NO. 165500, 165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN.
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWINGS

JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. 16551-2-004

PRECAST CONCRETE PIPE (TONGUE AND GROOVE TYPE)
DIA. 0.20 M.
NOT TO SCALE

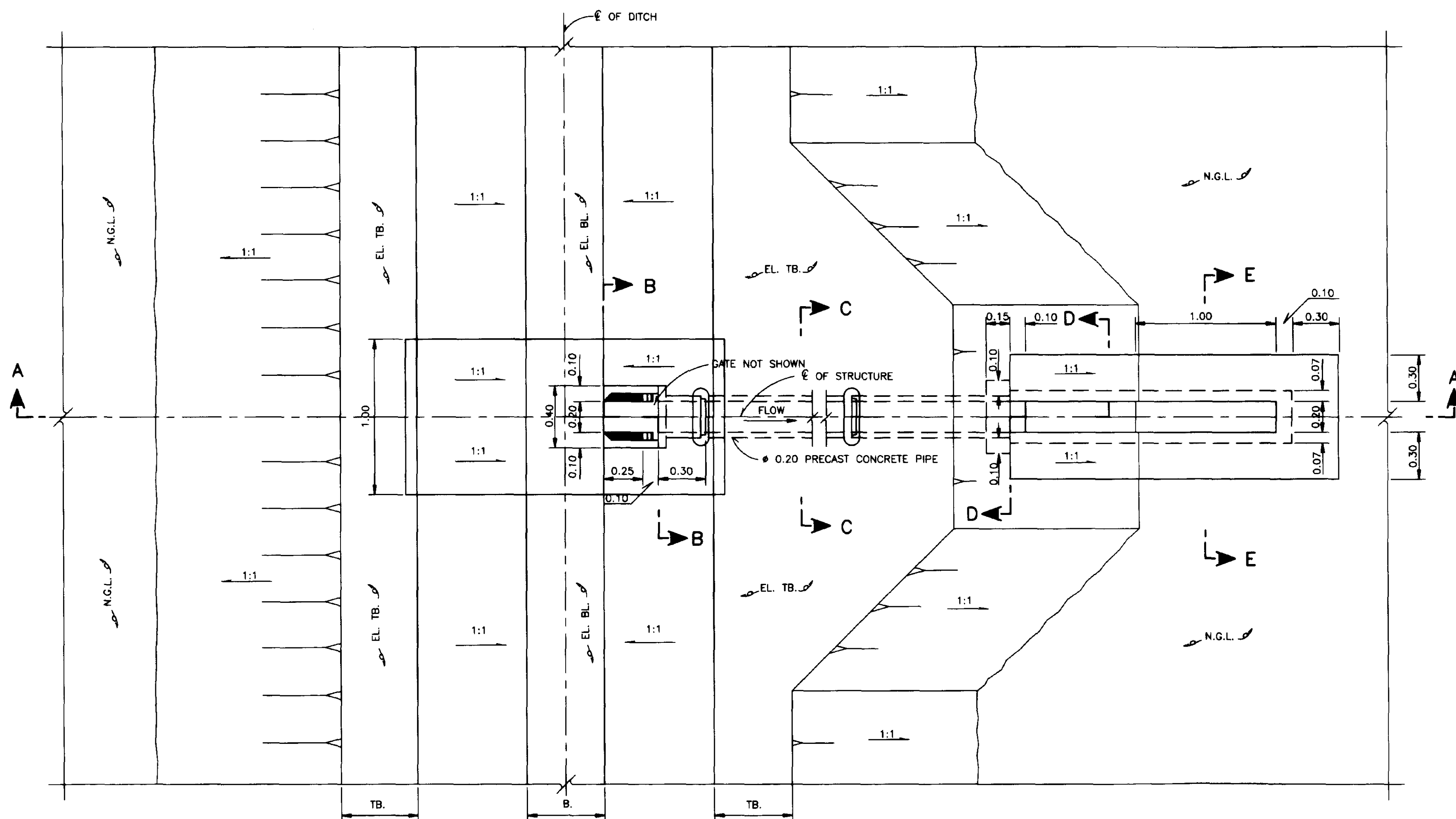


ROYAL IRRIGATION DEPARTMENT

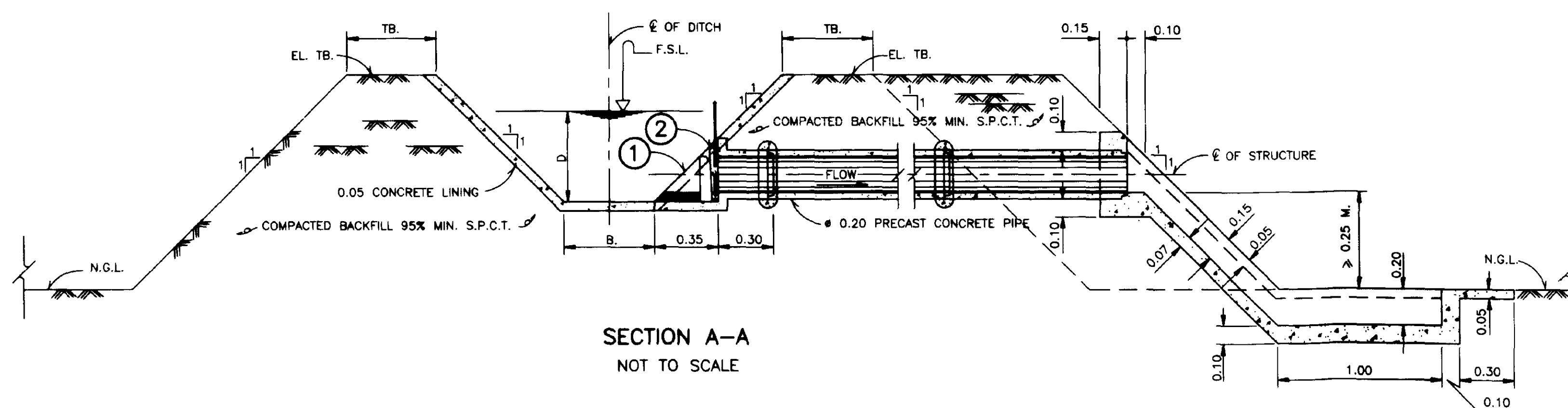
ON-FARM IRRIGATION SYSTEM TYPICAL FARM INLET

PLAN, SECTION AND DETAILS

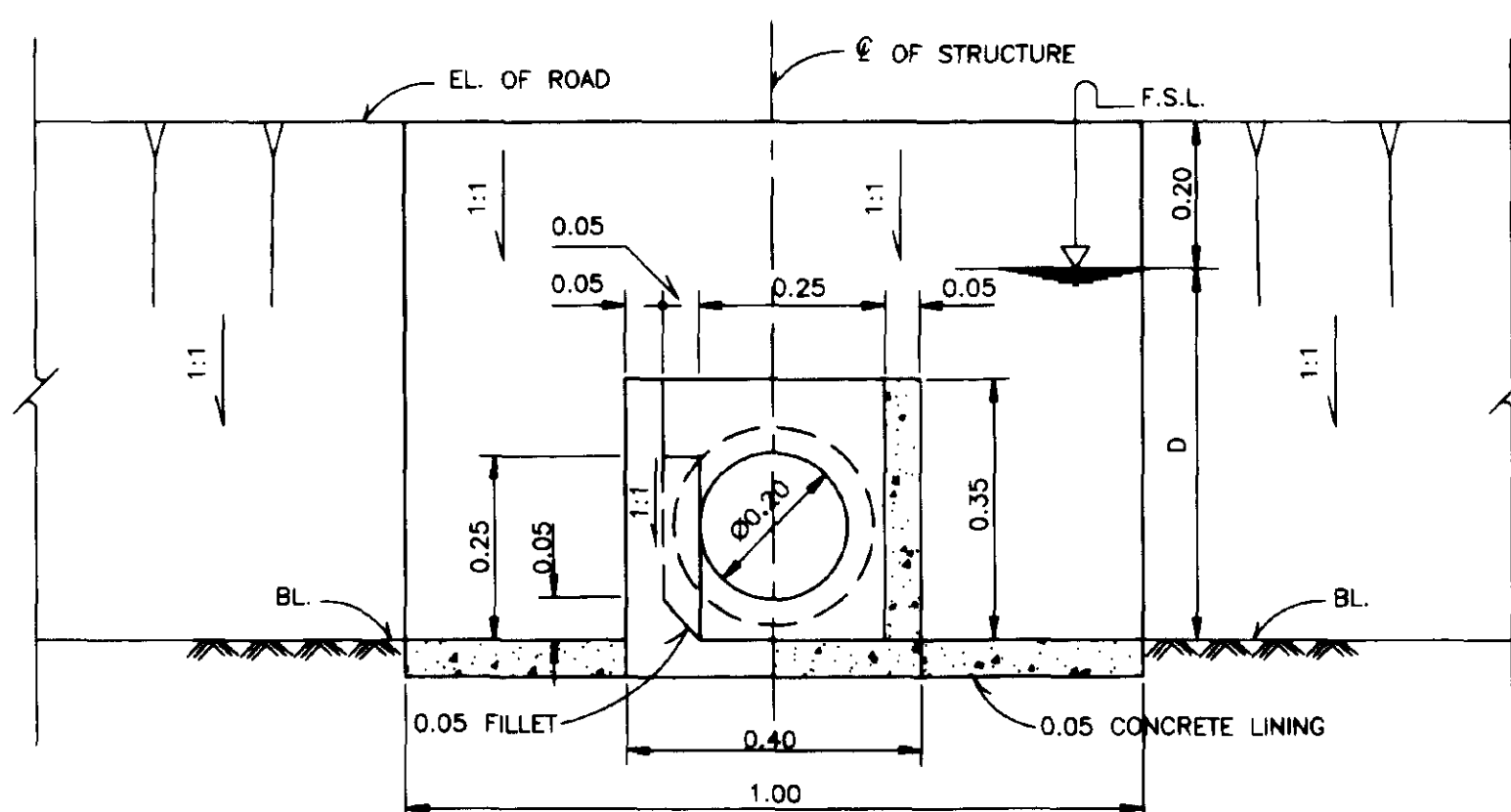
DESIGNED	<i>Saeed Samir</i>	SUBMITTED	<i>N. Wajid</i>	CS.
DRAWN	<i>Saeed Samir</i>	REVIEWED	<i>B. O. T. M.</i>	DDD.
TRACED	<i>Amir Inayat</i>	RECOMMENDED	<i>Saeed</i>	Dir. OEDA
CHECKED	<i>N. Wajid</i>	APPROVED	<i>Saeed</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED
				RECOMM.
				APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				DATE
				165532



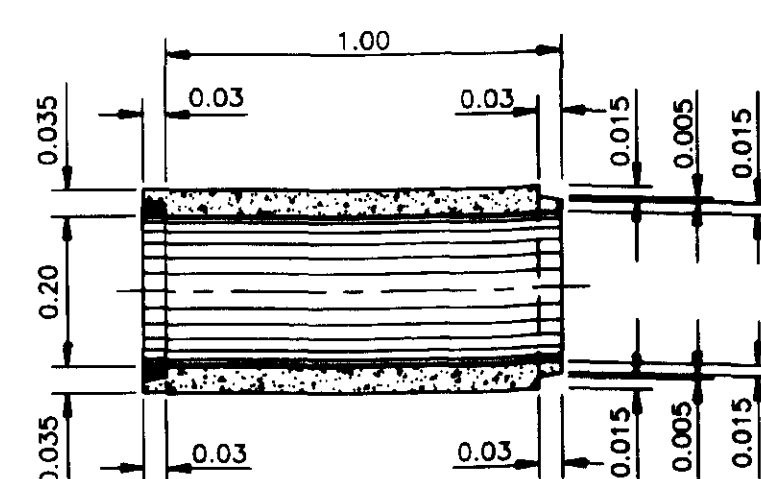
PLAN
NOT TO SCALE



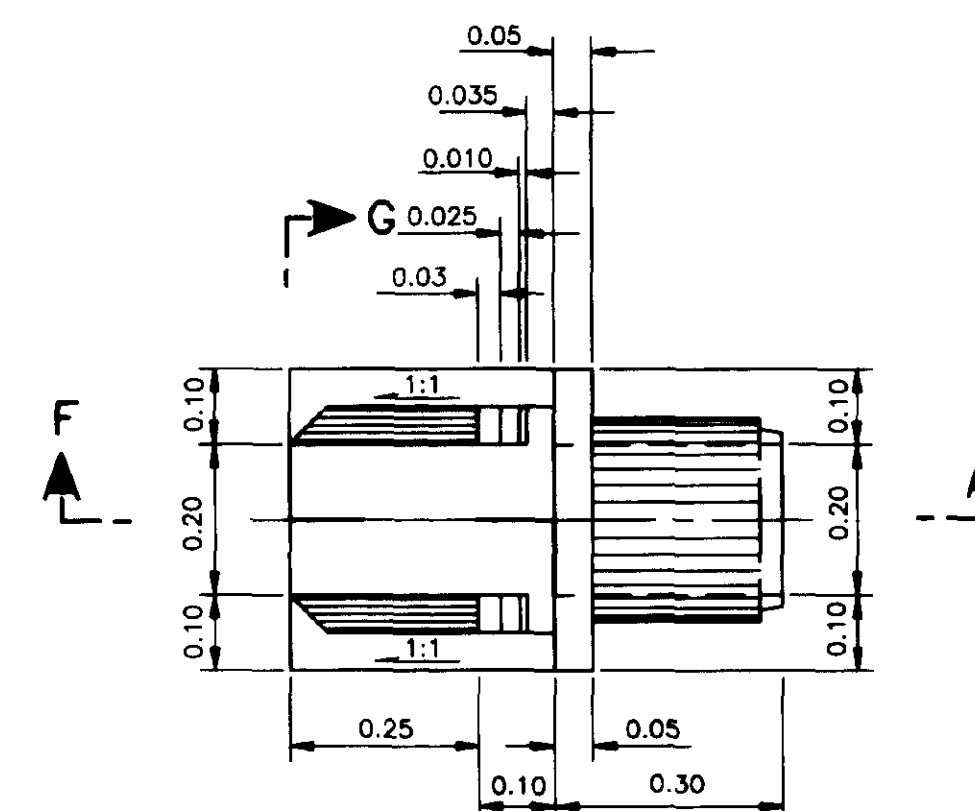
SECTION A-A
NOT TO SCALE



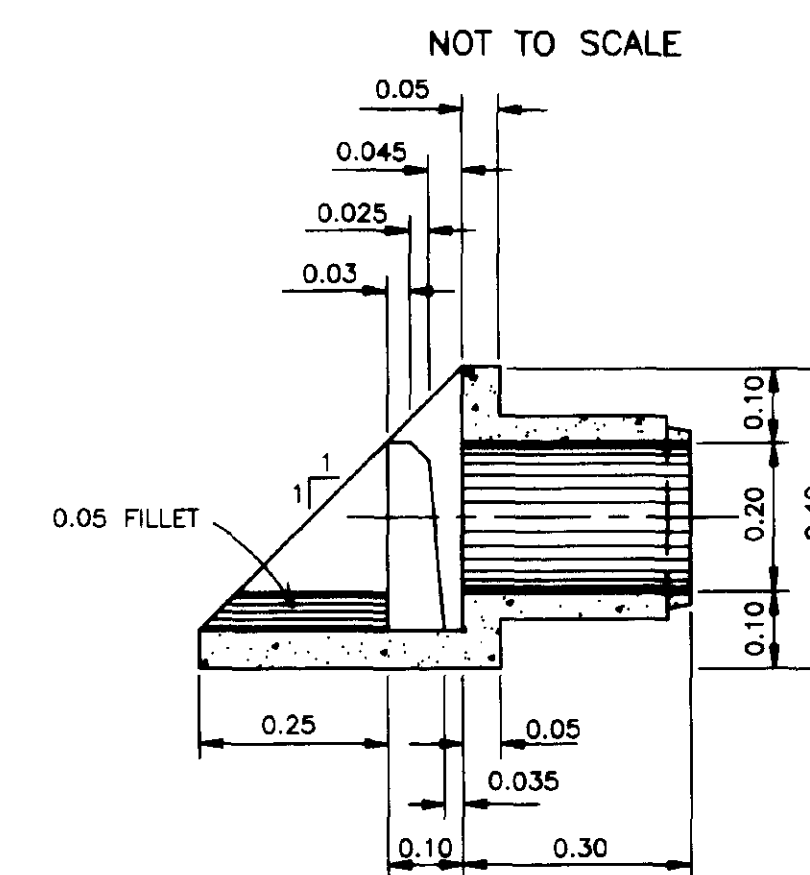
SECTION B-B
NOT TO SCALE



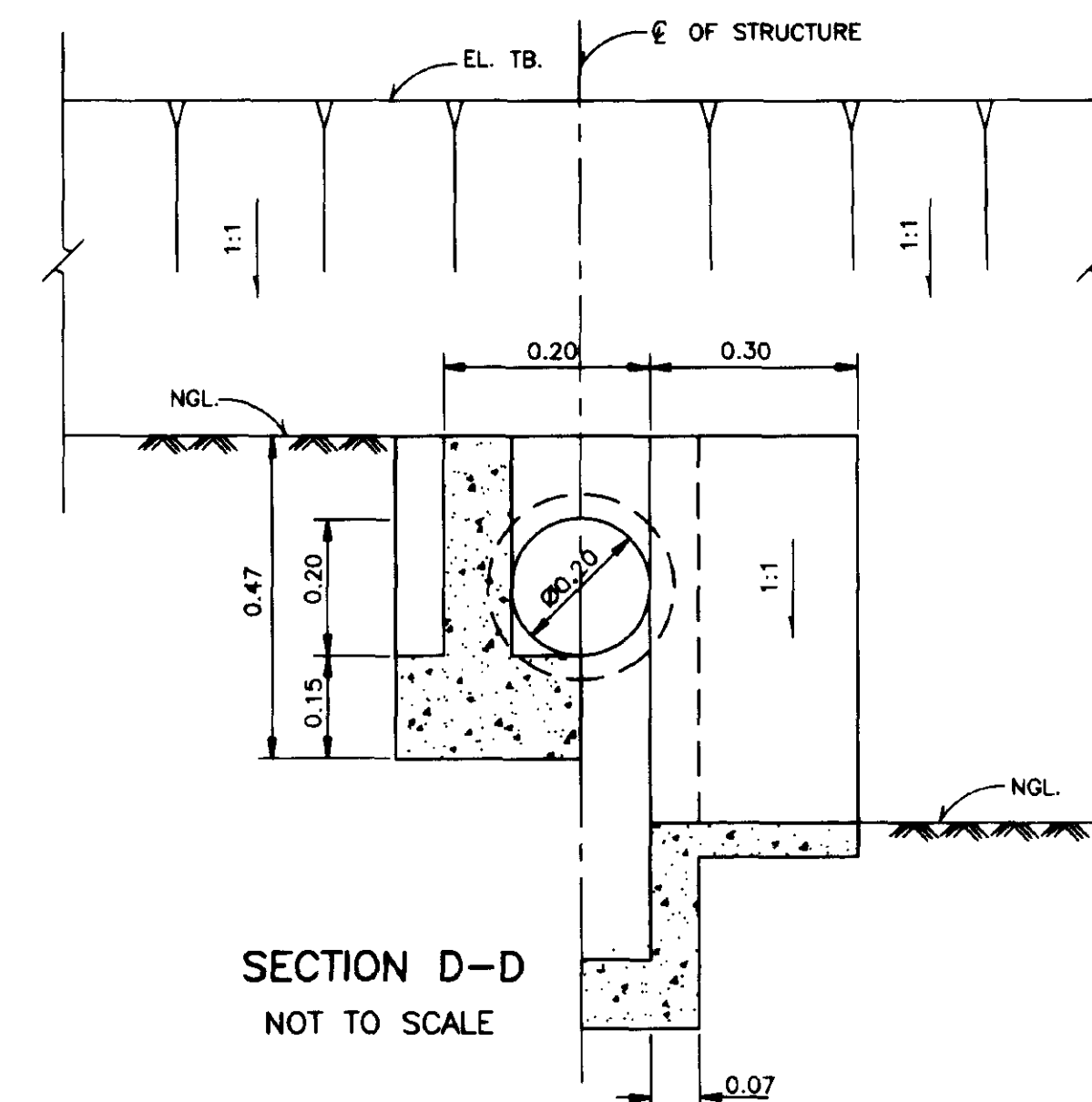
PRECAST CONCRETE PIPE (TONGUE AND GROOVE TYPE)
DIA. 0.20 M.
NOT TO SCALE



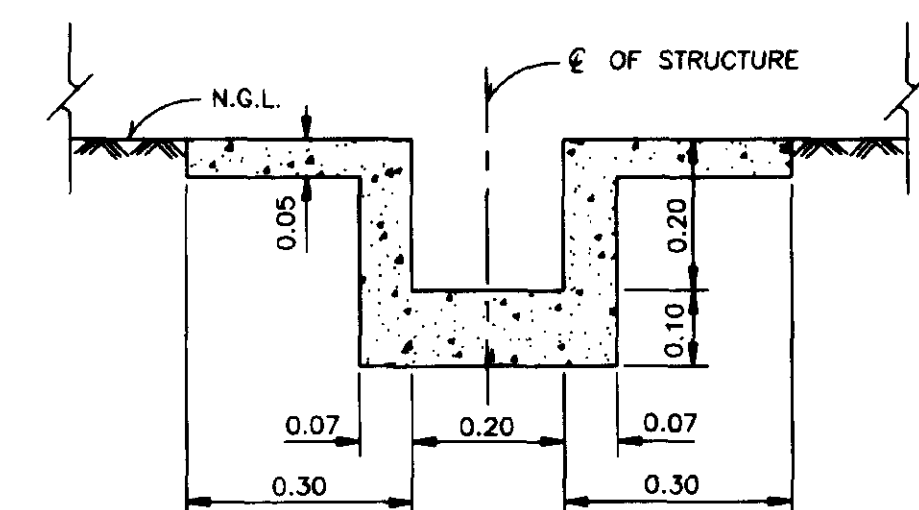
① L → G
PLAN OF INLET PIPE



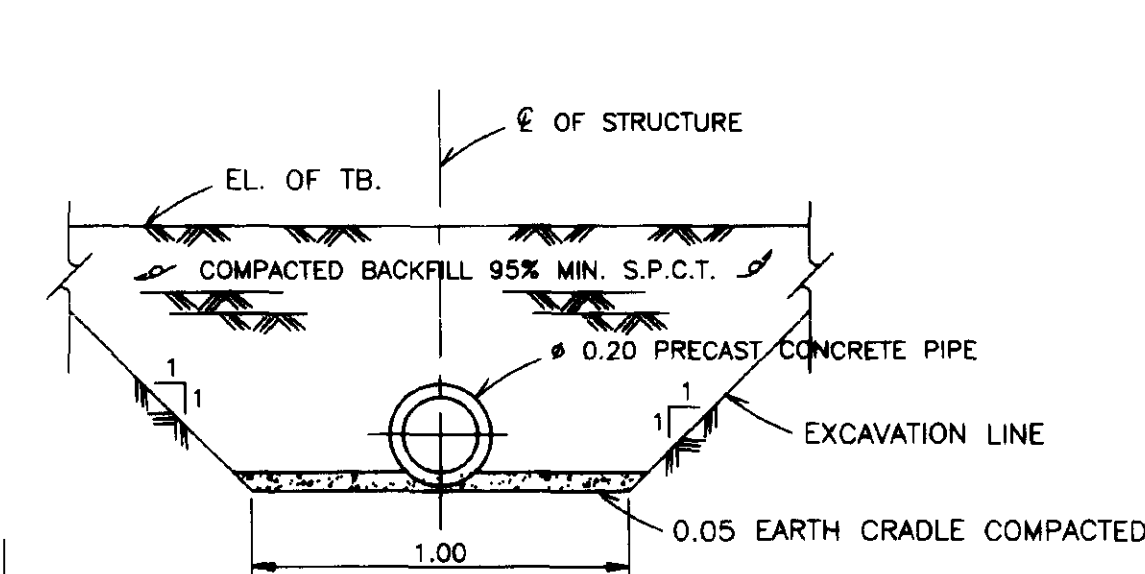
SECTION F-F
NOT TO SCALE



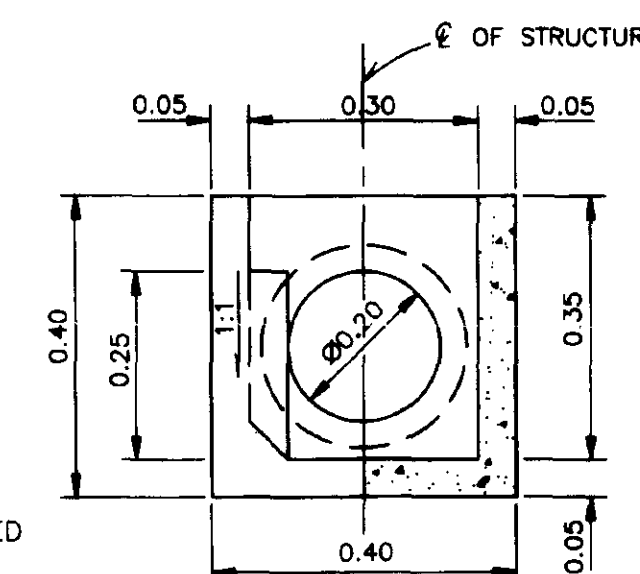
SECTION D-D
NOT TO SCALE



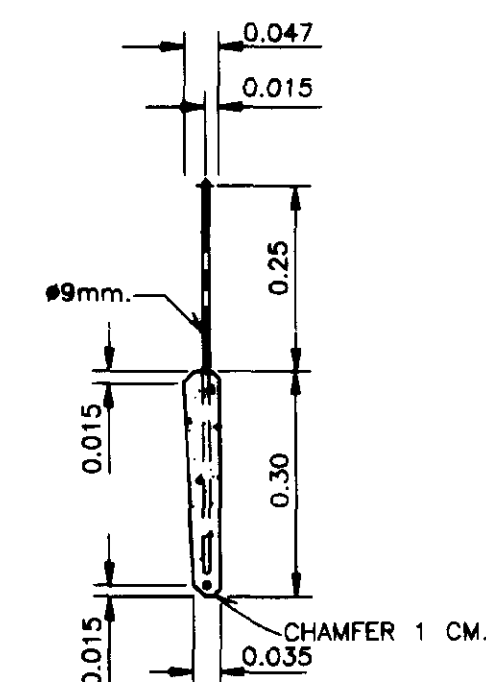
SECTION E-E
NOT TO SCALE



SECTION C-C
NOT TO SCALE



SECTION G-G
NOT TO SCALE



SECTION H-H
NOT TO SCALE

NOTES

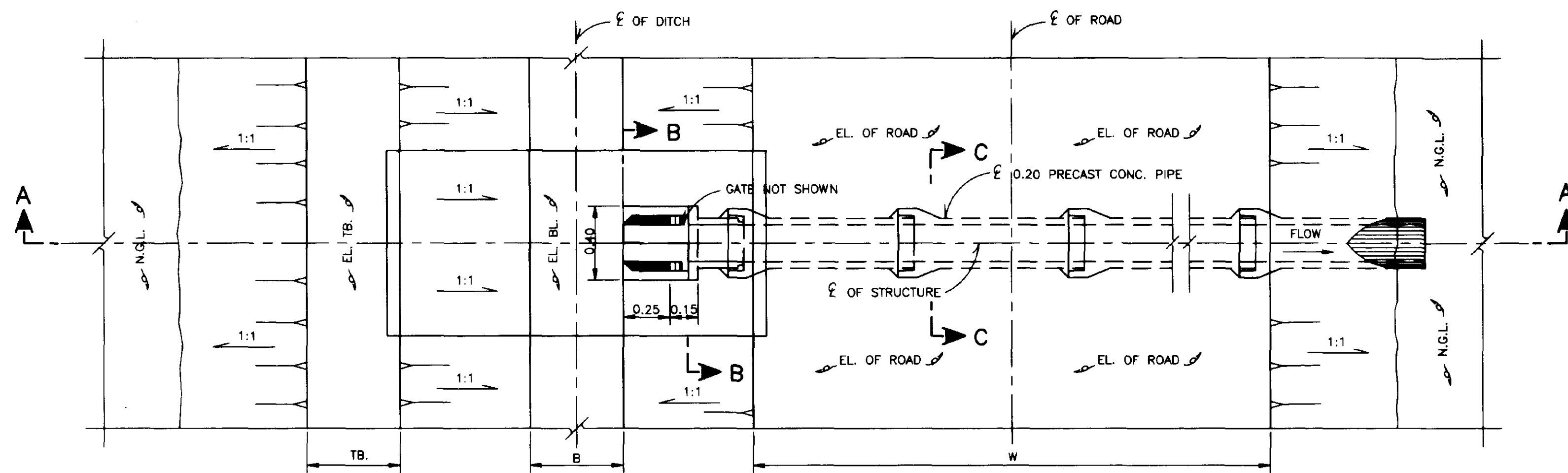
1. FOR GENERAL NOTES AND LEGEND REFER TODWG. NO. 165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN.
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWINGS

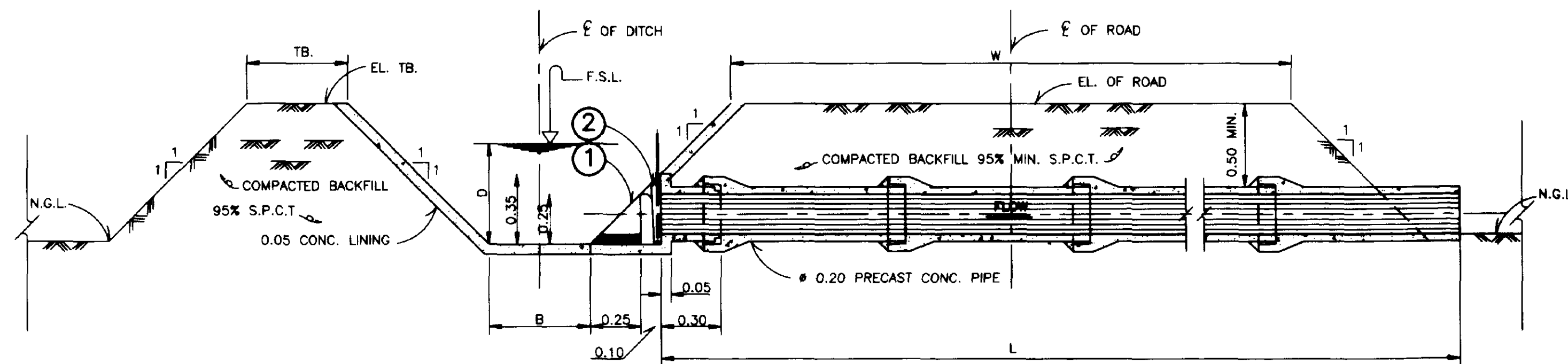
JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. 151-2-004

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL FARM INLET WITH DROP
PLAN, SECTION AND DETAILS

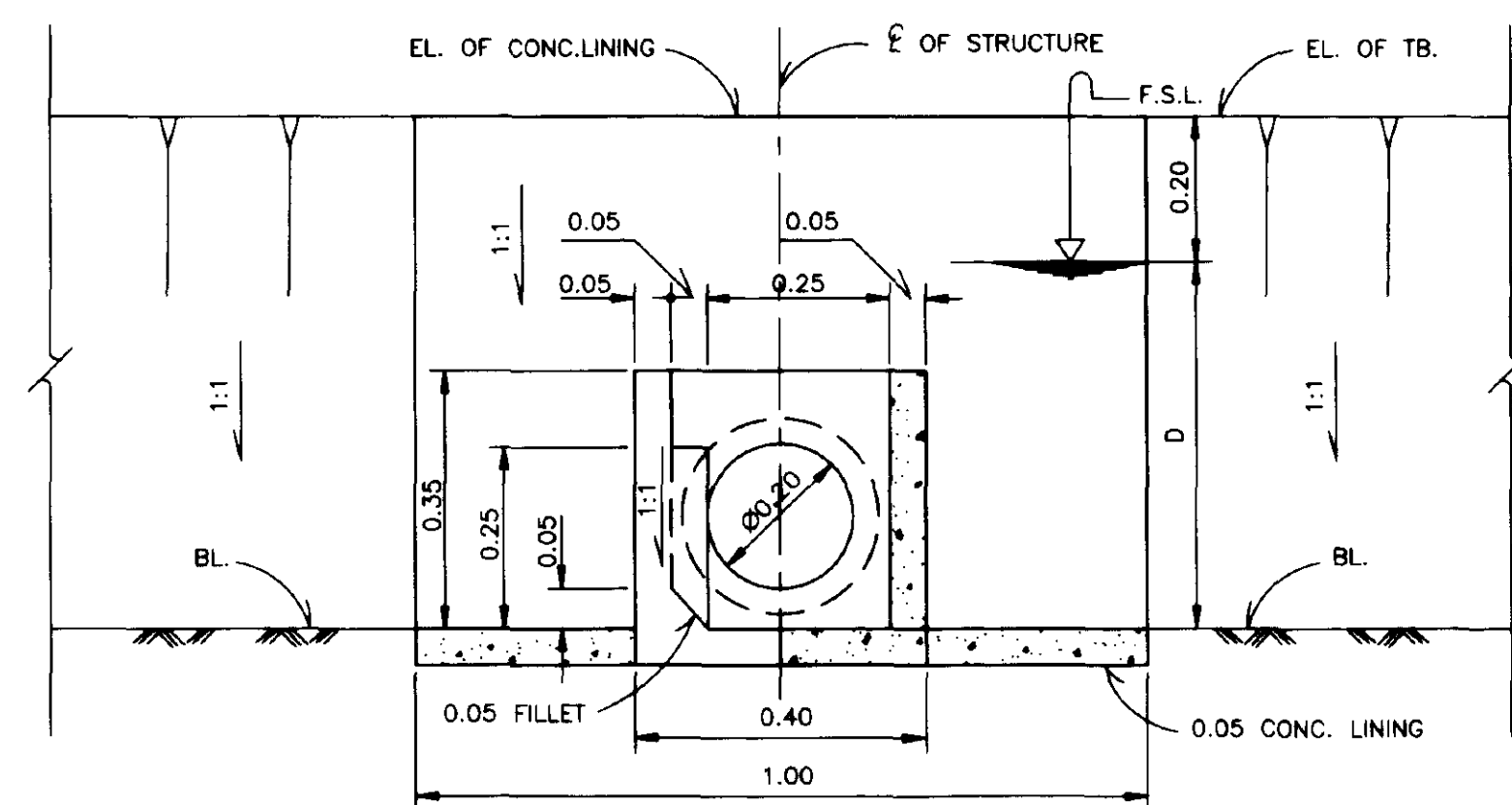
							DESIGNED	<i>Saba Saeedmanee</i>	SUBMITTED	<i>N. Abeyaratne</i>	CS.
							DRAWN	<i>Saba Saeedmanee</i>	REVIEWED	<i>B. O'Farrell</i>	DDD.
							TRACED	<i>N. Abeyaratne</i>	RECOMMENDED	<i>Savadi</i>	Dir. O&A
							CHECKED	<i>N. Abeyaratne</i>	APPROVED	<i>Savadi</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH			5.17.42 DATE	165533



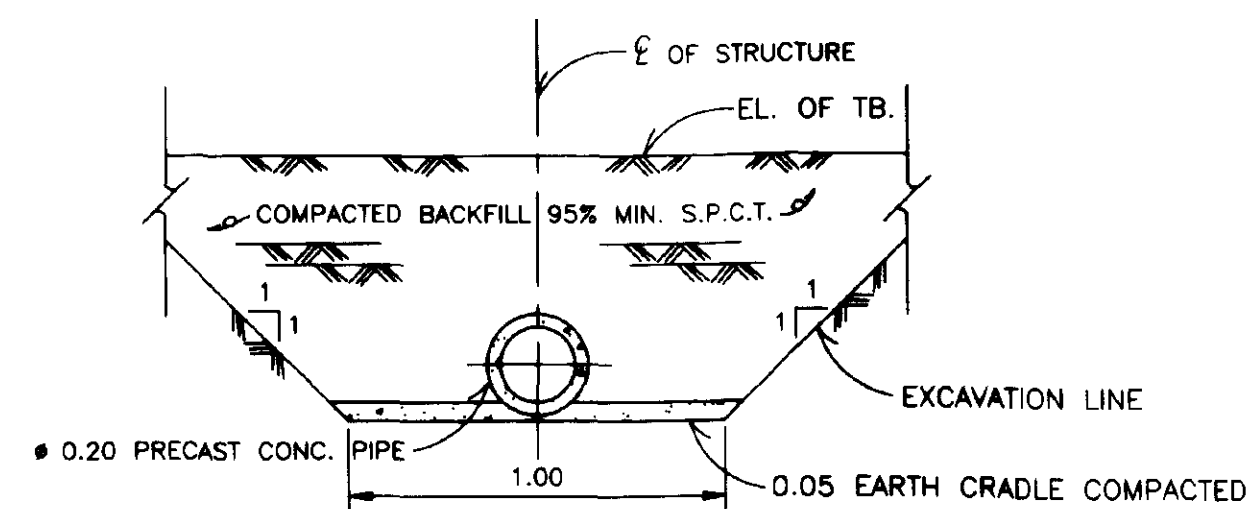
PLAN
NOT TO SCALE



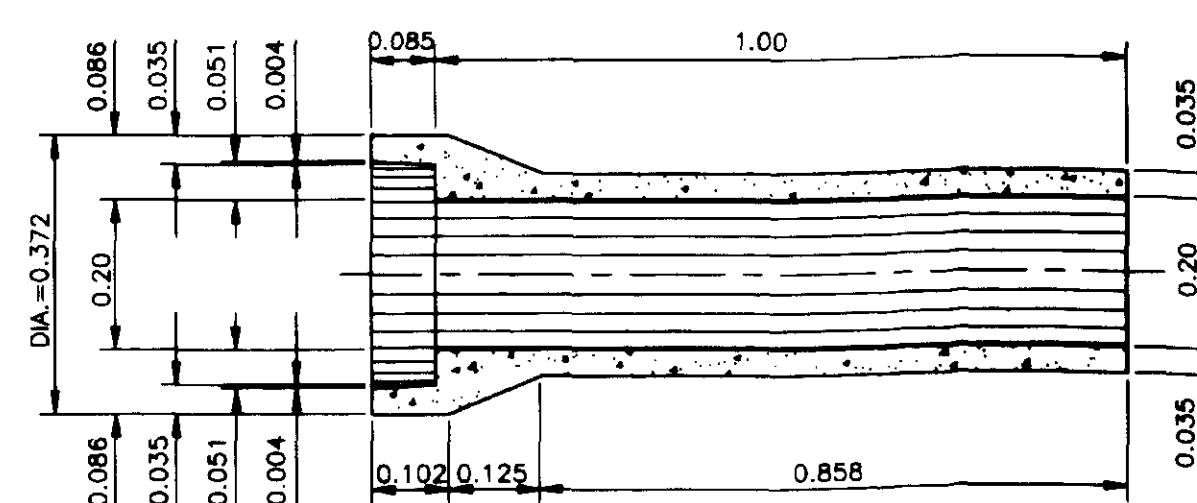
SECTION A-A
NOT TO SCALE



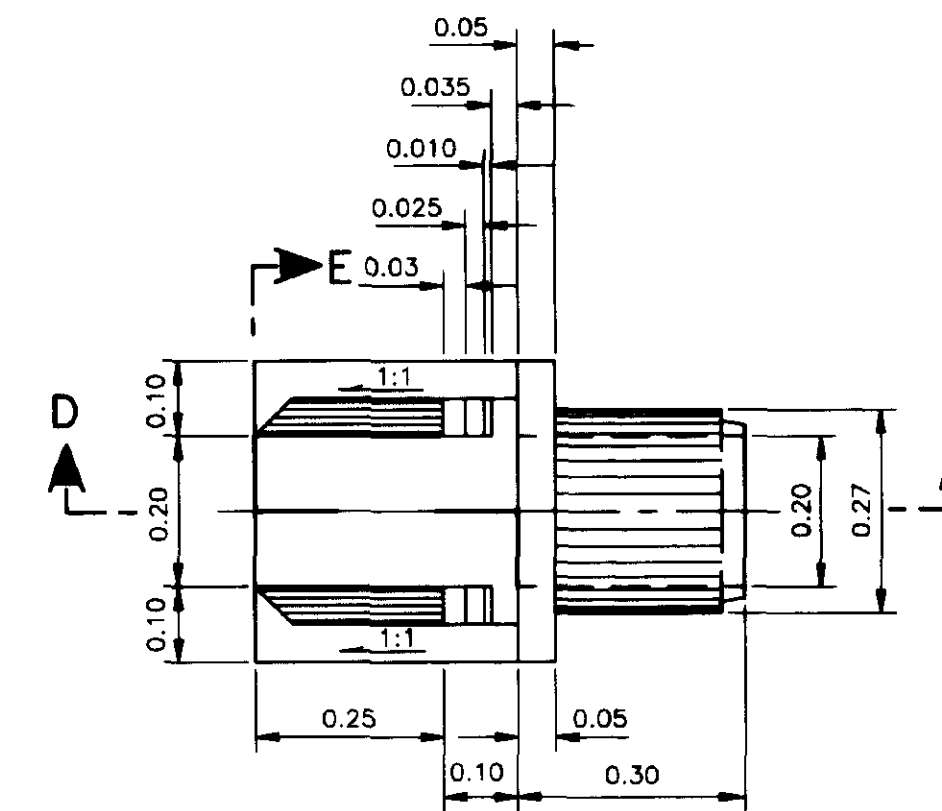
SECTION B-B
NOT TO SCALE



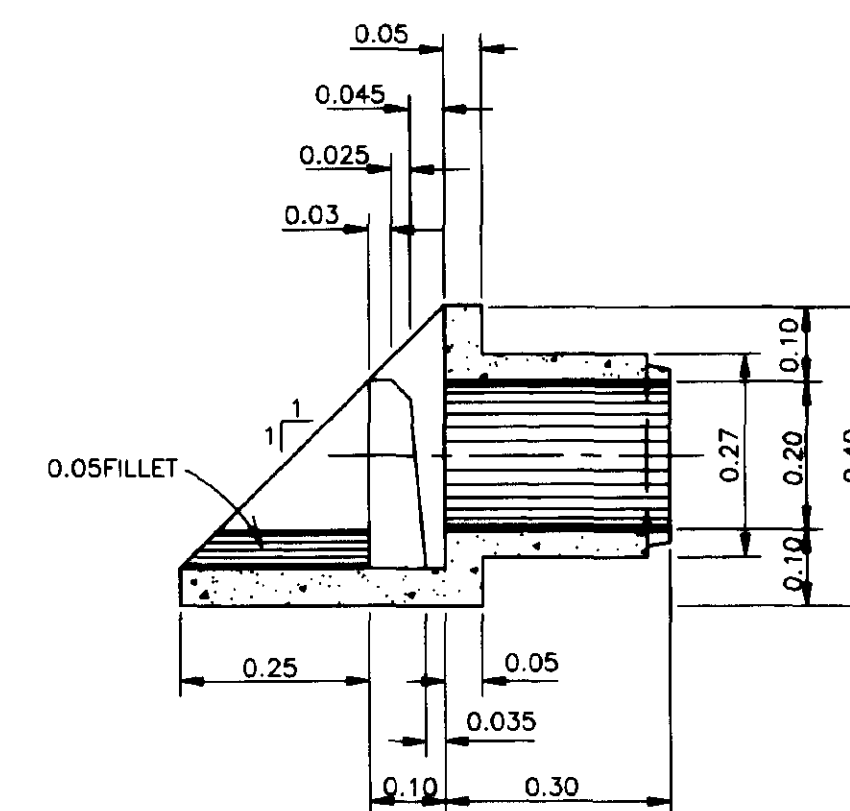
SECTION C-C
NOT TO SCALE



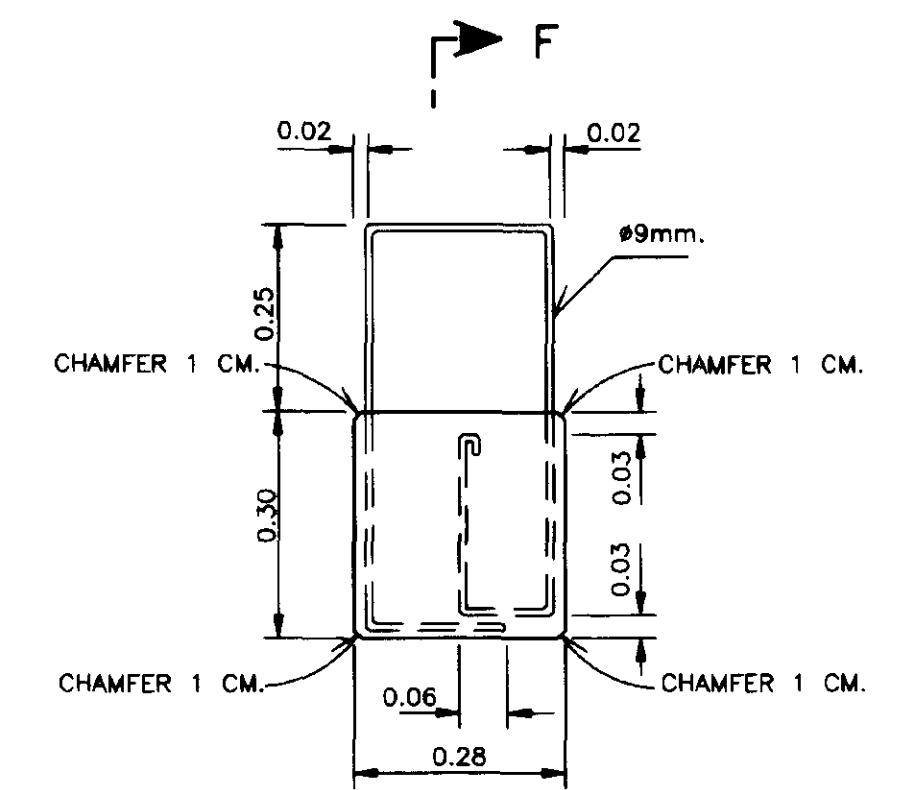
LONG SECTION OF PIPE
NOT TO SCALE



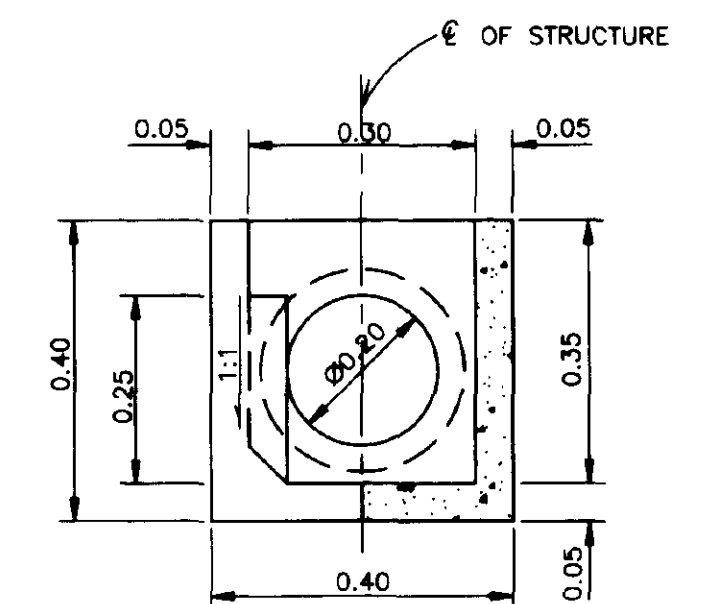
①
PLAN OF INLET PIPE
NOT TO SCALE



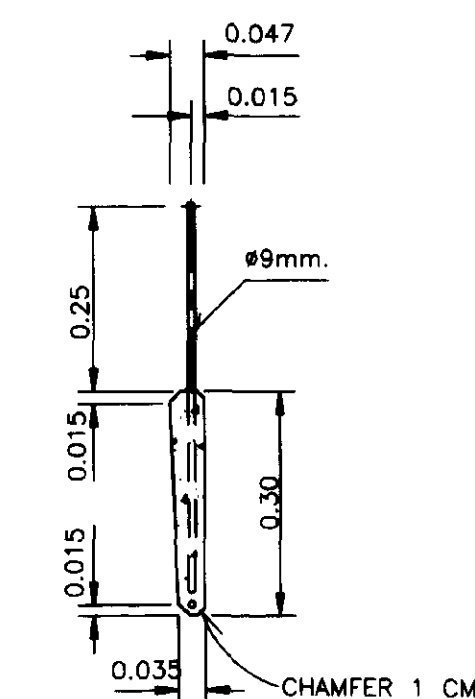
SECTION D-D
NOT TO SCALE



②
REINF. CONC. GATE
NOT TO SCALE



SECTION E-E
NOT TO SCALE



SECTION F-F
NOT TO SCALE

NOTES

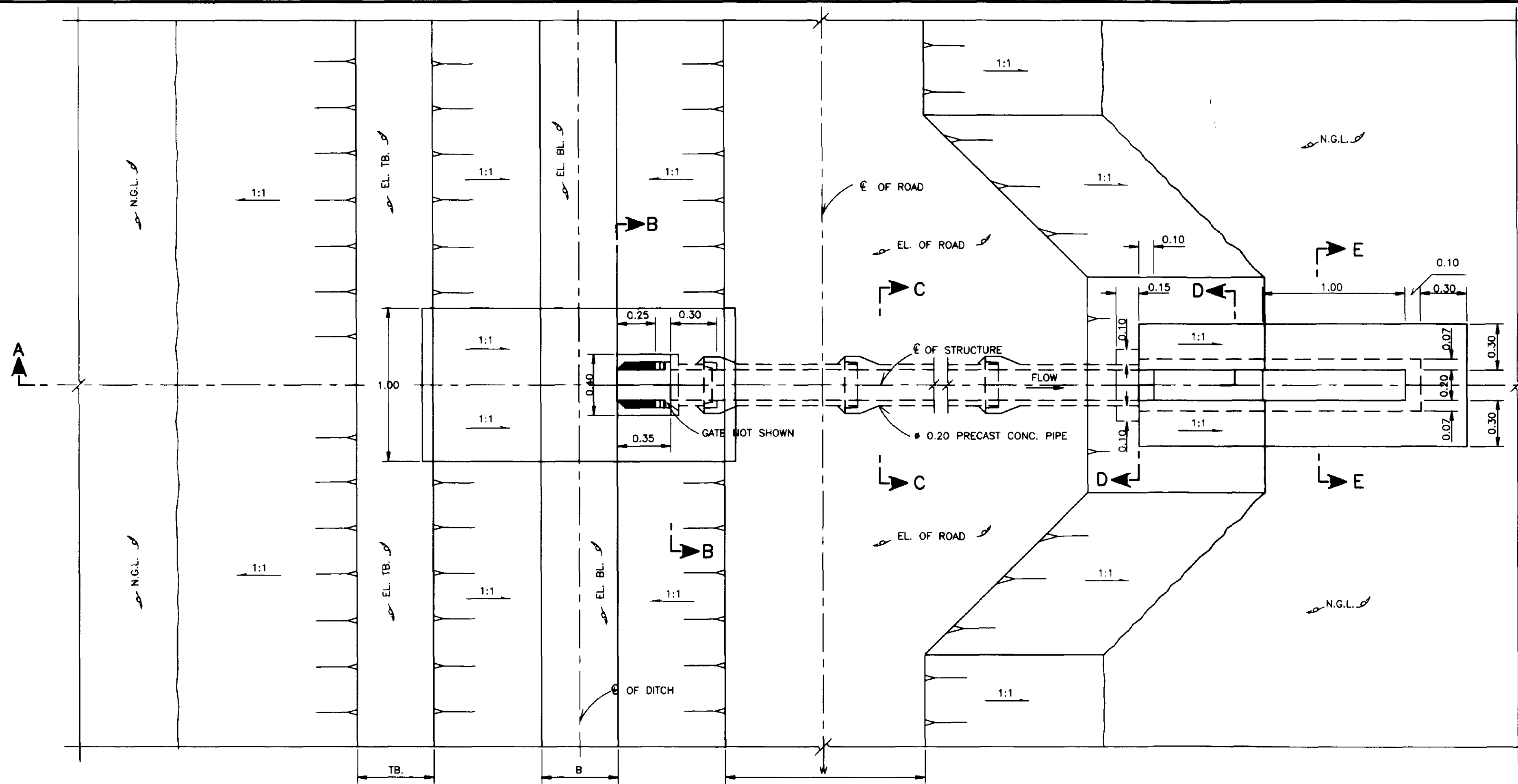
1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG. NO. 165500,165501
2. ALL DIMENSIONS AND ELEVATIONS(M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD

REFERENCE DRAWINGS

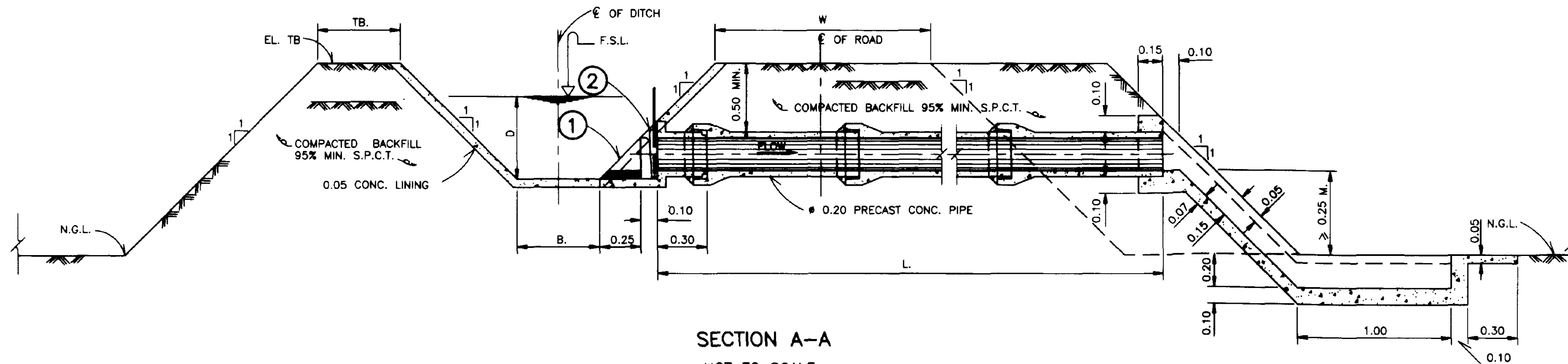
JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. 11501-2-004

ROYAL IRRIGATION DEPARTMENT ON-FARM IRRIGATION SYSTEM TYPICAL FARM INLET UNDER ROAD PLAN,SECTION AND DETAILS

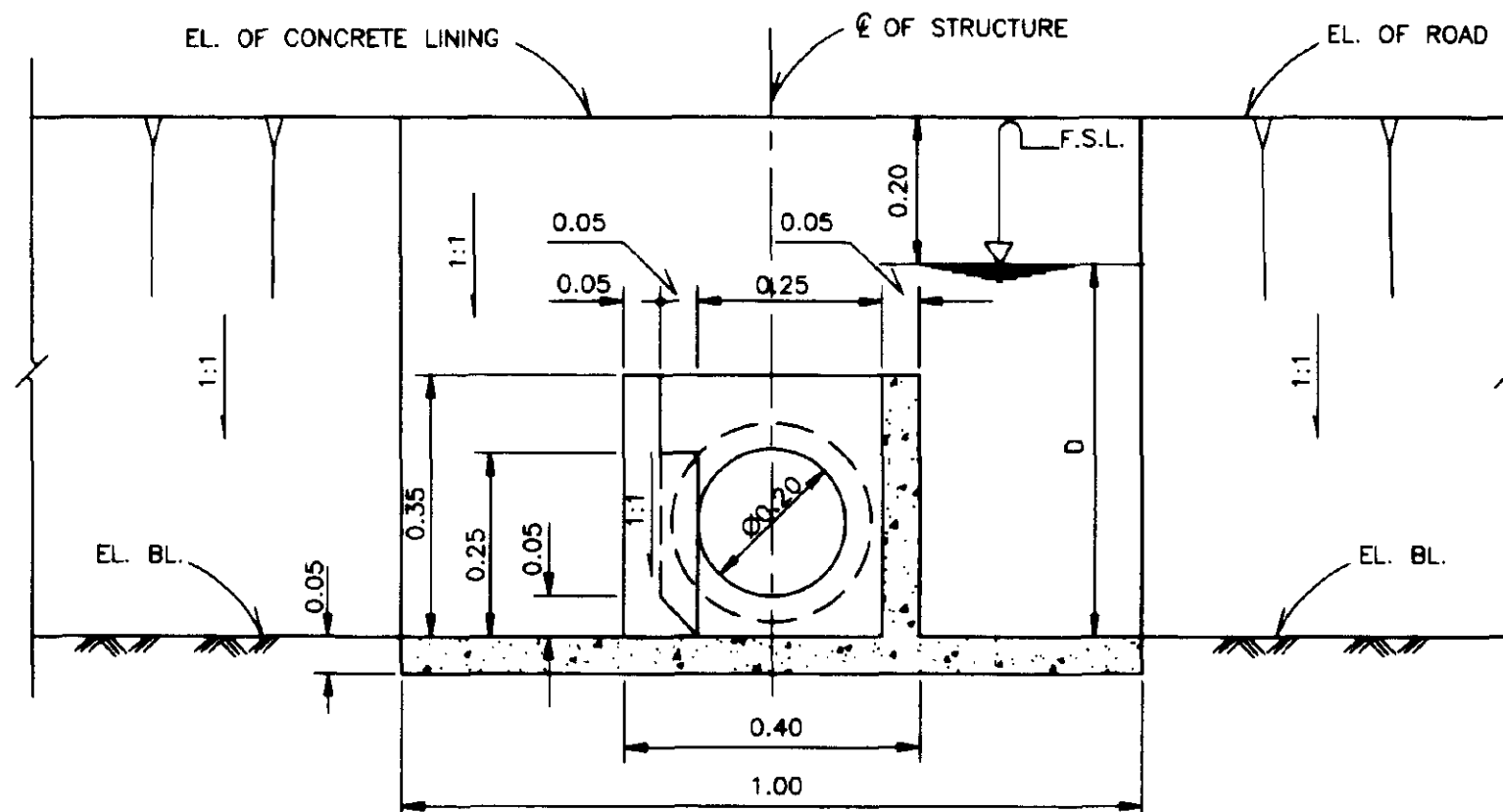
							DESIGNED	<i>Sanee Sawamane</i>	SUBMITTED	<i>N. Wongsansuk</i>	CS.
							DRAWN	<i>Sanee Sawamane</i>	REVIEWED	<i>B. Chaiya</i>	DDD.
							TRACED	<i>Amnat Kongsam</i>	RECOMMENDED	<i>Sawade</i>	Dir.OEDM
							CHECKED	<i>N. Wongsansuk</i>	APPROVED	<i>Sawade</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE 5/11/42 ON-FARM IRRIGATION SYSTEM DESIGN BRANCH			DATE	165534



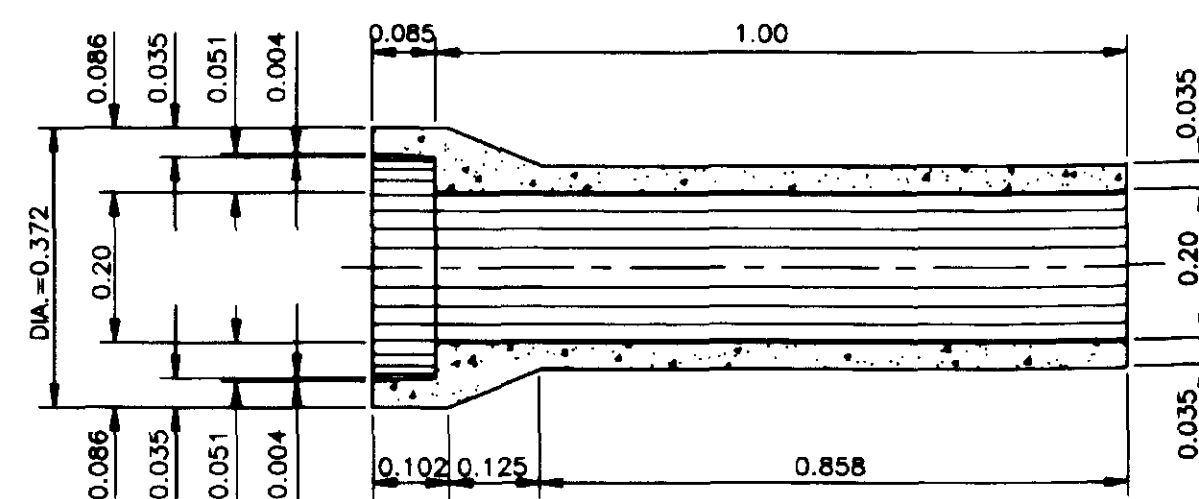
PLAN
NOT TO SCALE



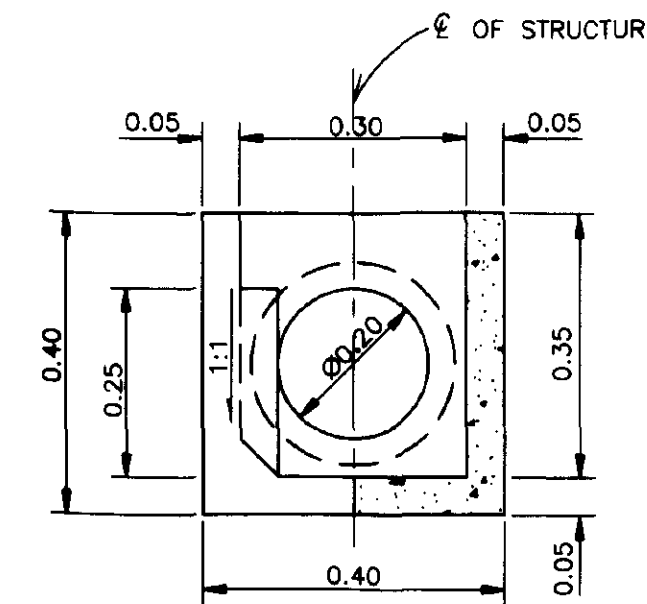
SECTION A-A
NOT TO SCALE



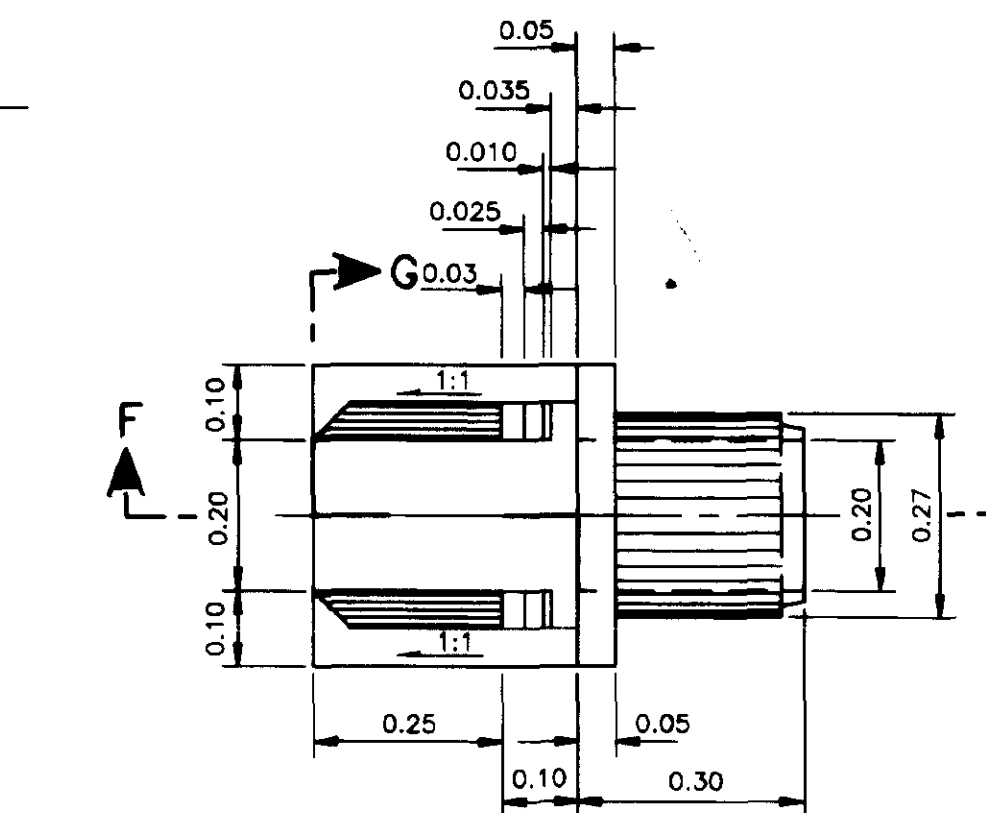
SECTION B-B
NOT TO SCALE



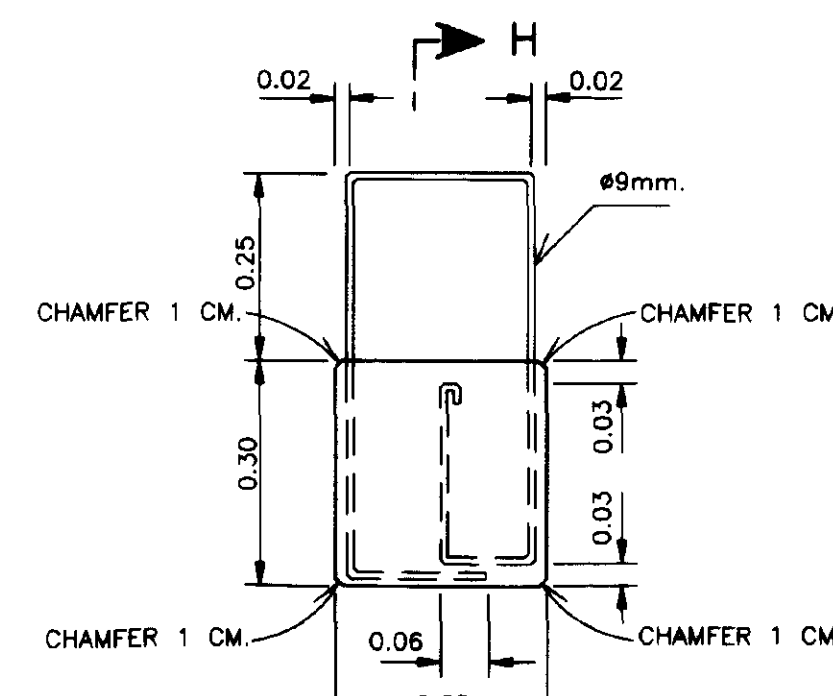
LONG SECTION OF PIPE
NOT TO SCALE



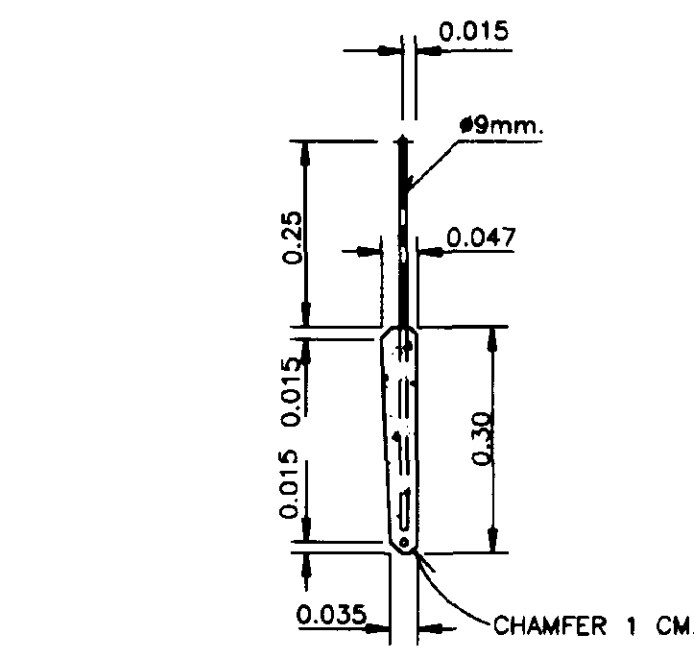
SECTION G-G
NOT TO SCALE



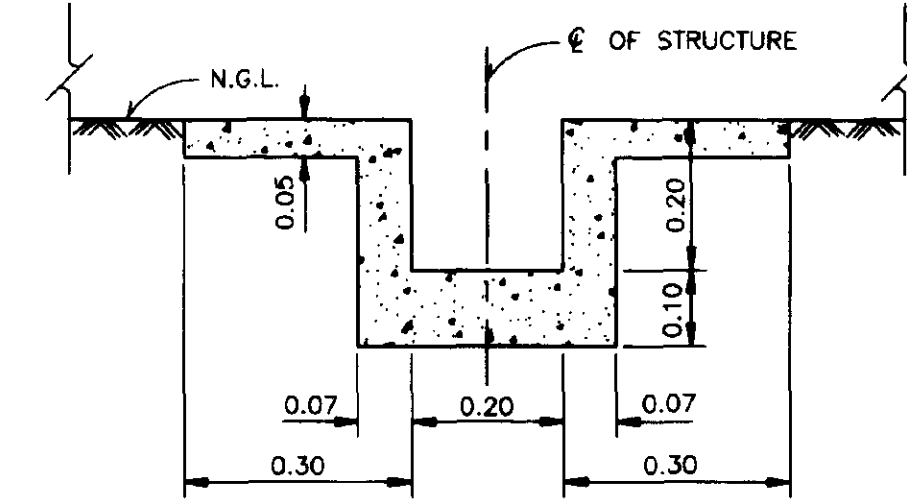
PLAN OF INLET PIPE
NOT TO SCALE



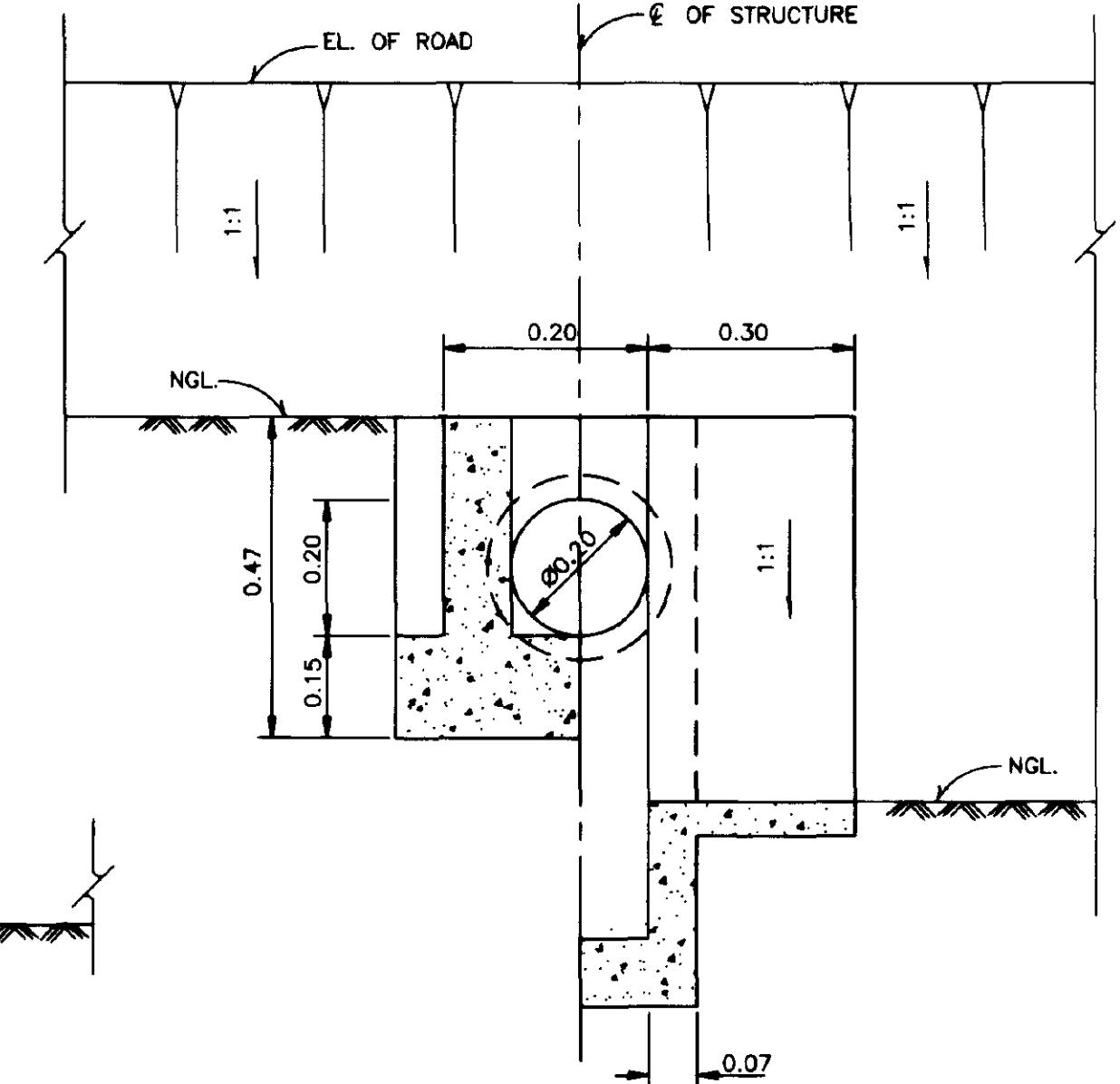
② L → H
REINF. CONC. GATE
NOT TO SCALE



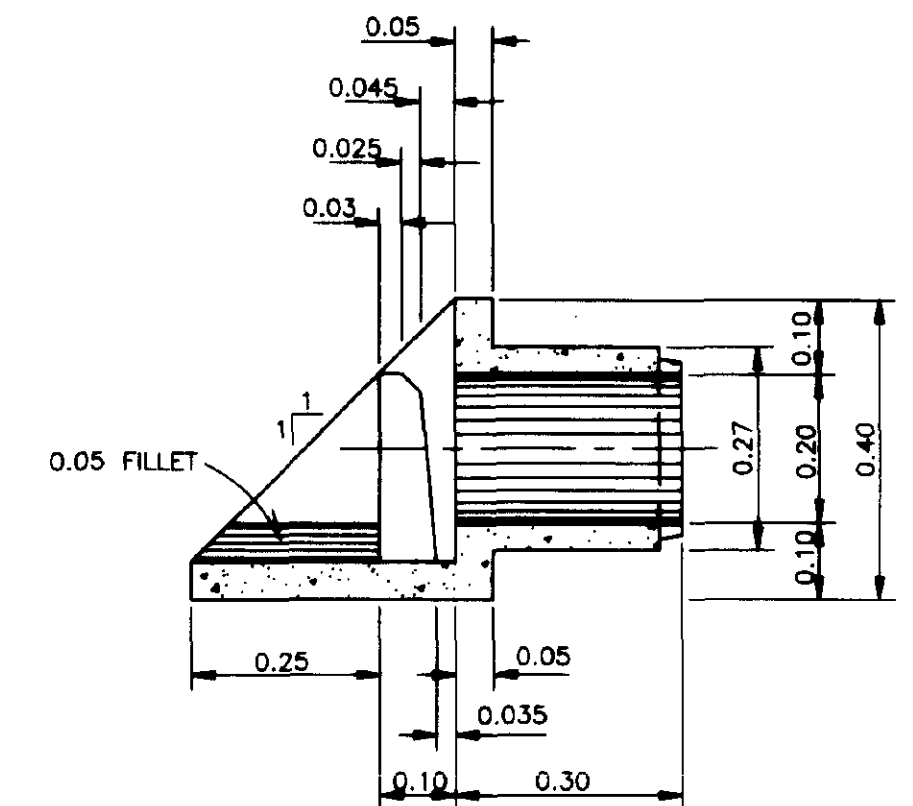
SECTION H-H
NOT TO SCALE



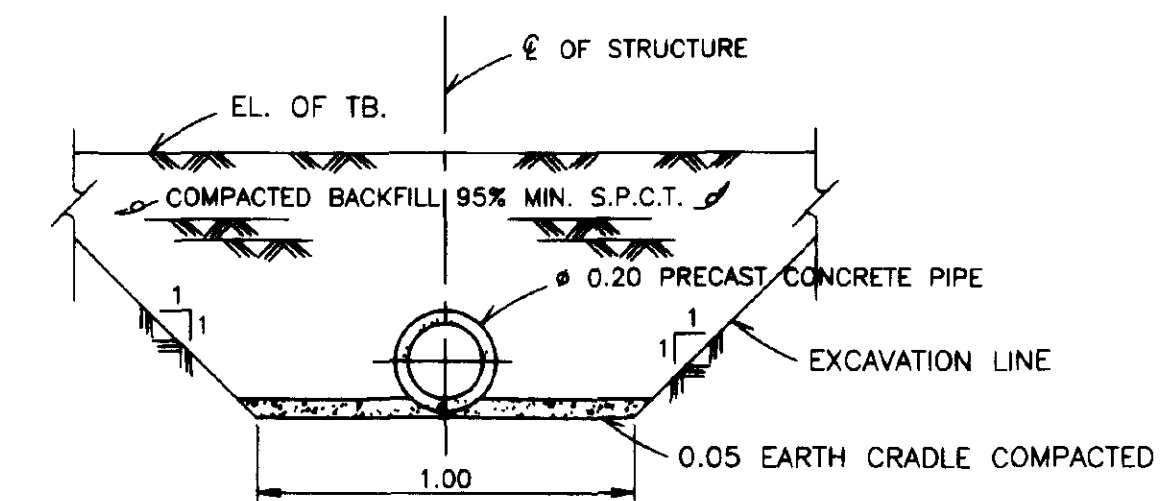
SECTION E-E
NOT TO SCALE



SECTION D-D
NOT TO SCALE



SECTION F-F
NOT TO SCALE



SECTION C-C
NOT TO SCALE

NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO.....DWG. NO. **165500,165501**
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN.
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD.

REFERENCE DRAWINGS

JOINT AND PLACEMENT OF PRECAST CONCRETE PIPE.....DWG. NO. W5U.-2-004

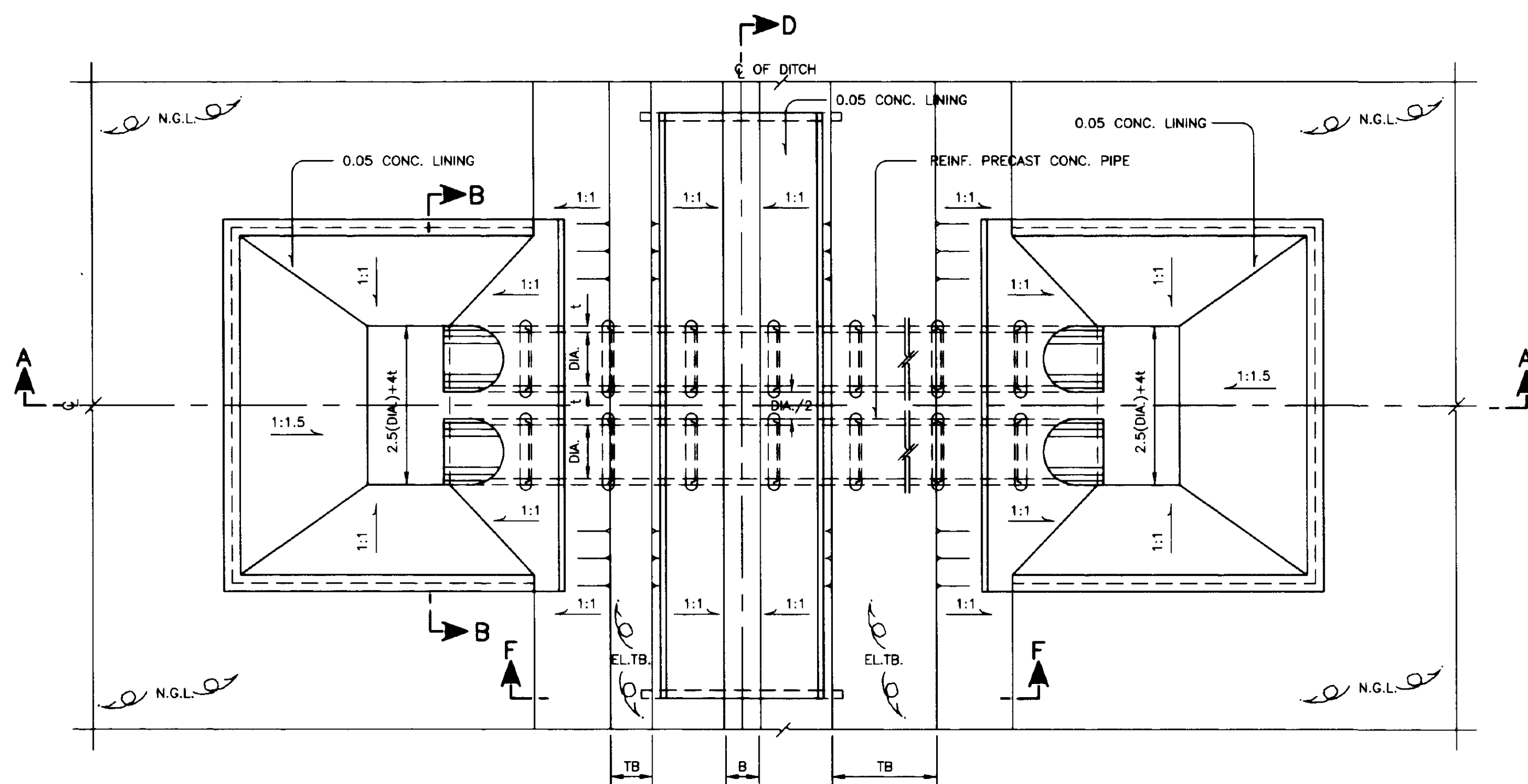
							DESIGNED	<i>Steve Savanmance</i>	SUBMITTED	<i>N. Wapansule</i>	CS.
							DRAWN	<i>Steve Savanmance</i>	REVIEWED	<i>B. O. K. 19</i>	DDO.
							TRACED		RECOMMENDED	<i>Savade</i>	Dir. OED.
							CHECKED	<i>Steve Ingini</i>	APPROVED	<i>Savade</i>	DG.
REV. NO.	POSITION	DESCRIPTION	DATE	CHECKED SUBMITTED	REVIEWED RECOMM.	APPROVED	OFFICE OF ENGINEERING DESIGN & ARCHITECTURE ON-FARM IRRIGATION SYSTEM DESIGN BRANCH		S. M. 142 DATE 165535		

ROYAL IRRIGATION DEPARTMENT

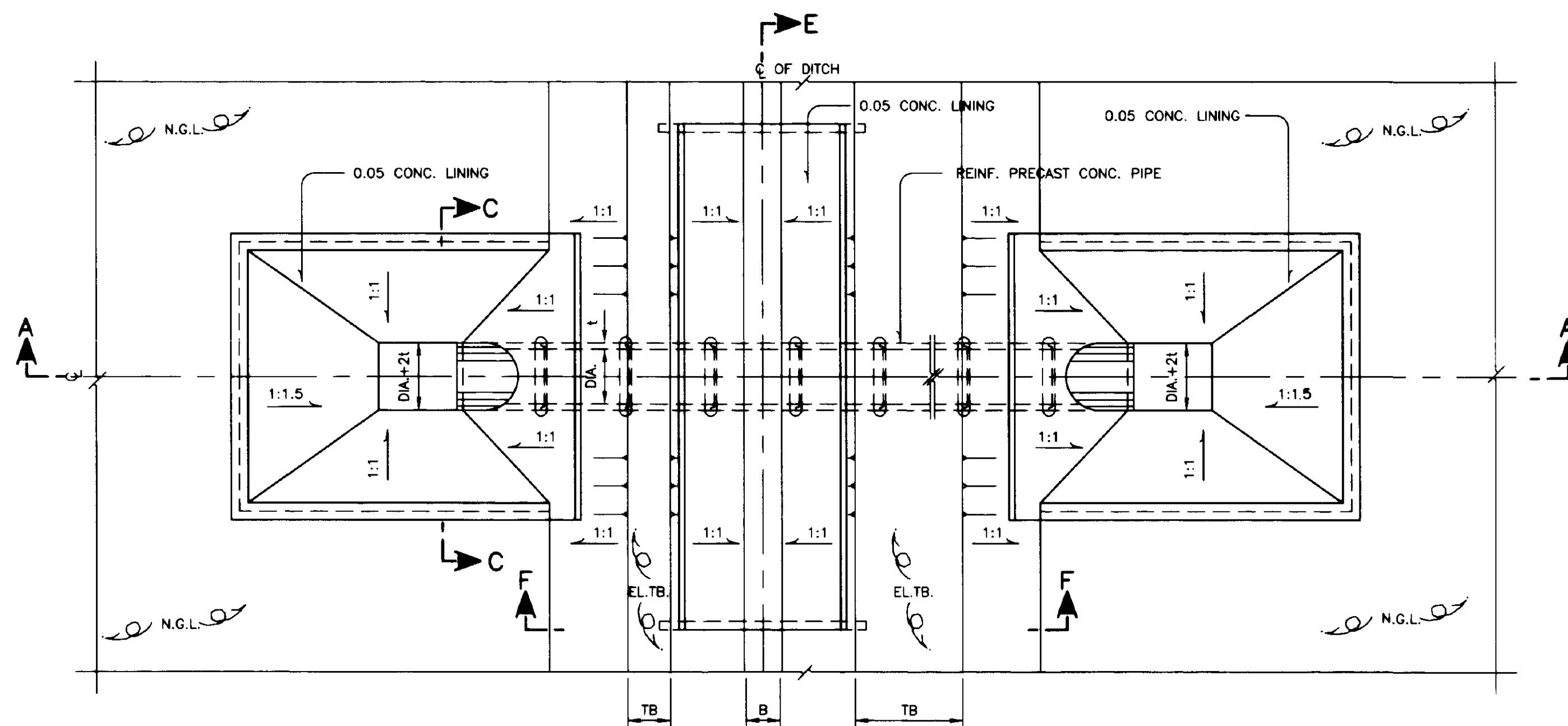
ON—FARM IRRIGATION SYSTEM

TYPICAL FARM INLET UNDER ROAD WITH DROP

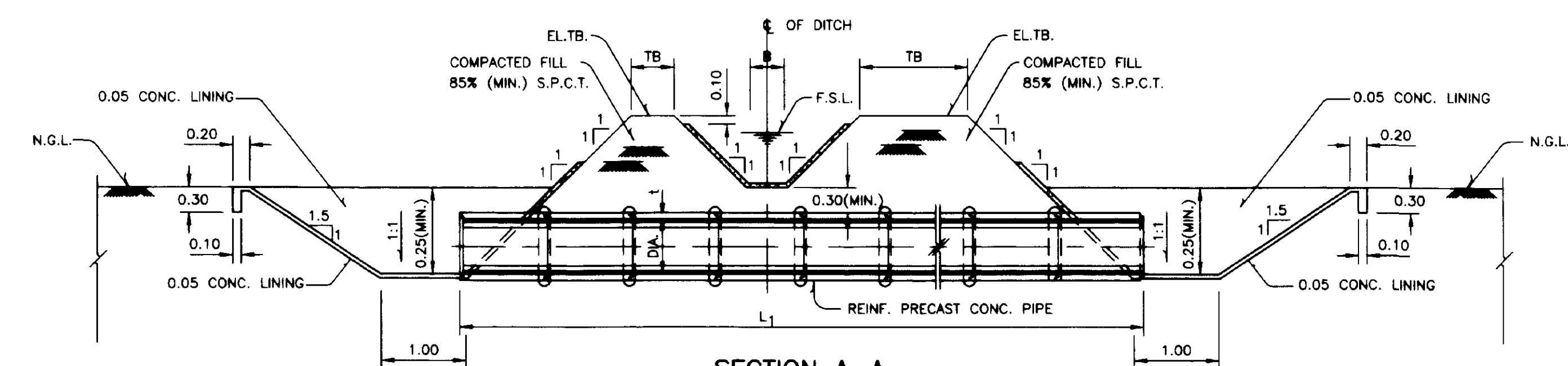
PLAN,SECTIONS AND DETAILS



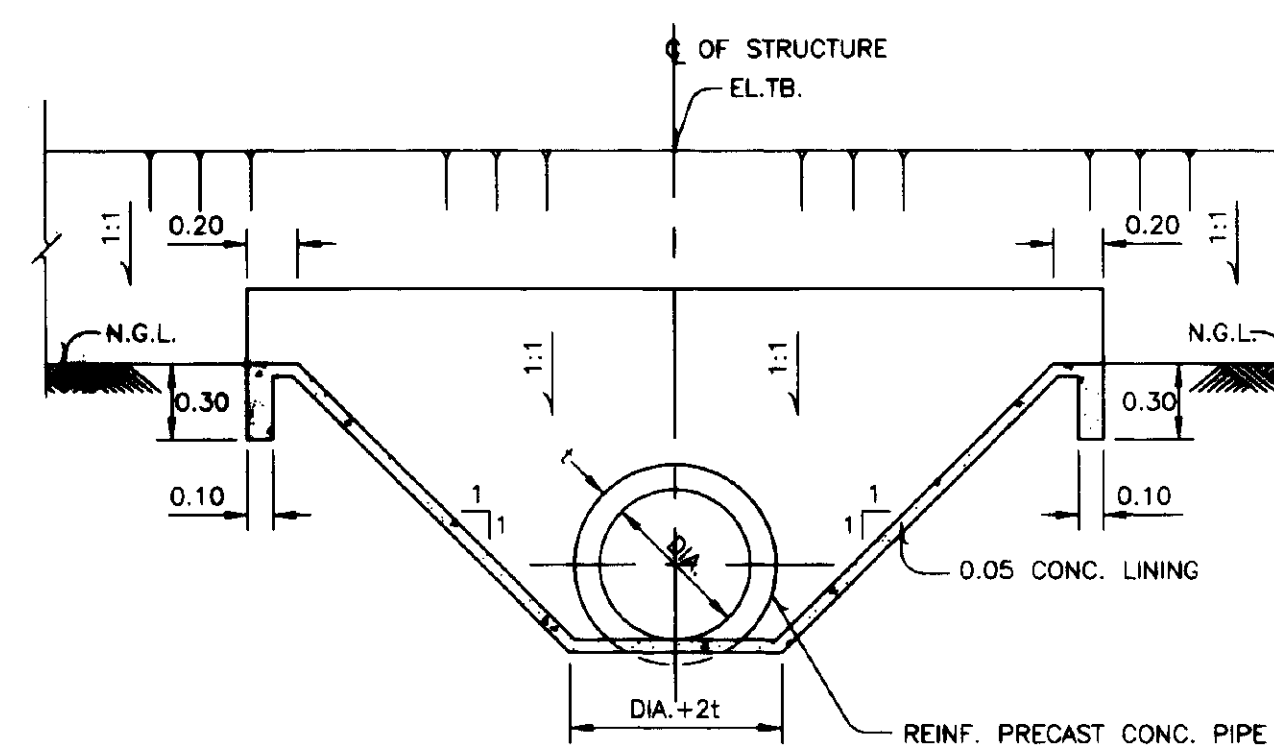
PLAN
NOT TO SCALE



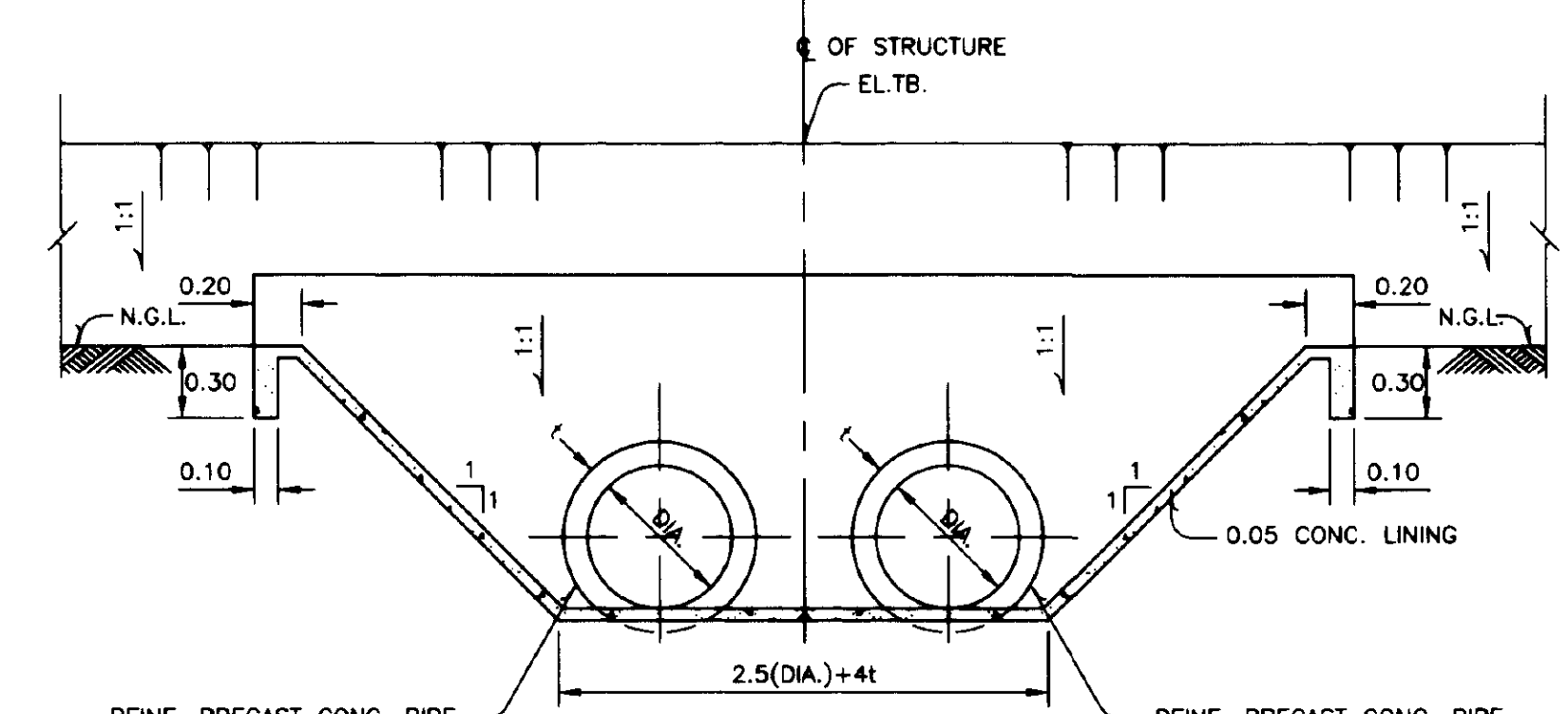
PLAN
NOT TO SCALE



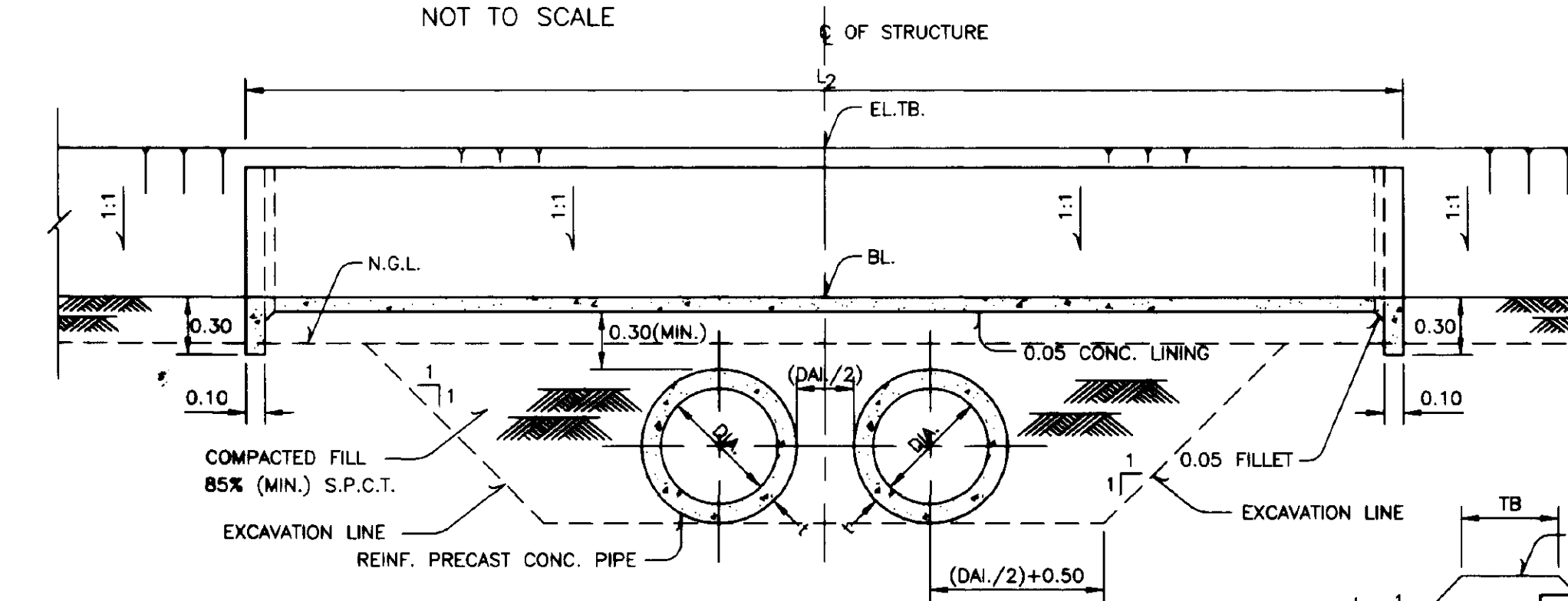
SECTION A-A
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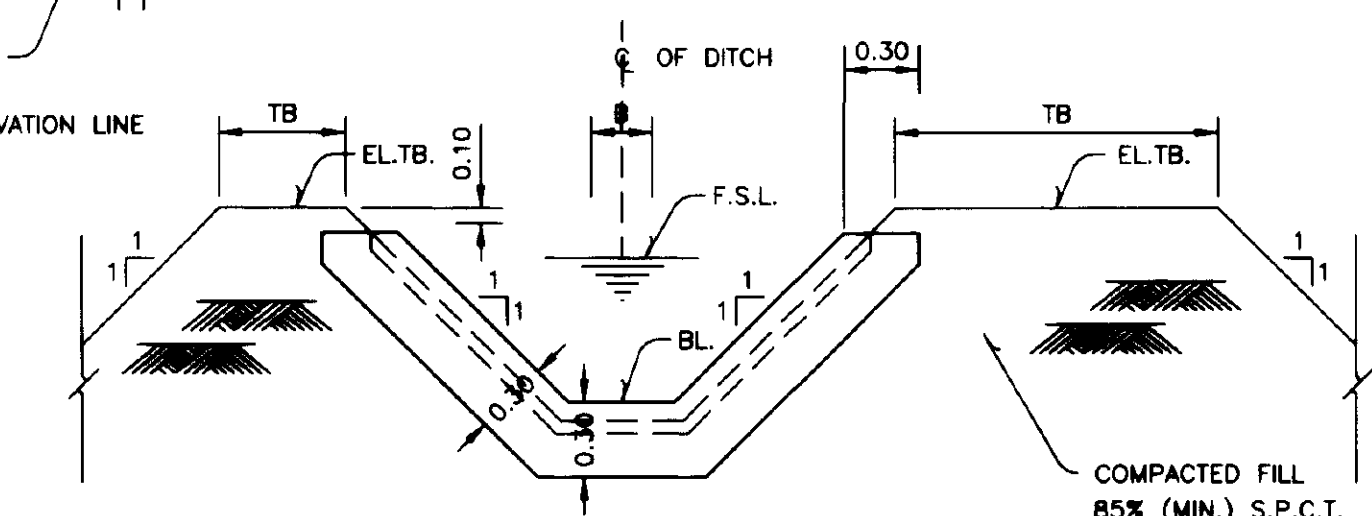
SECTION C-C
NOT TO SCALE



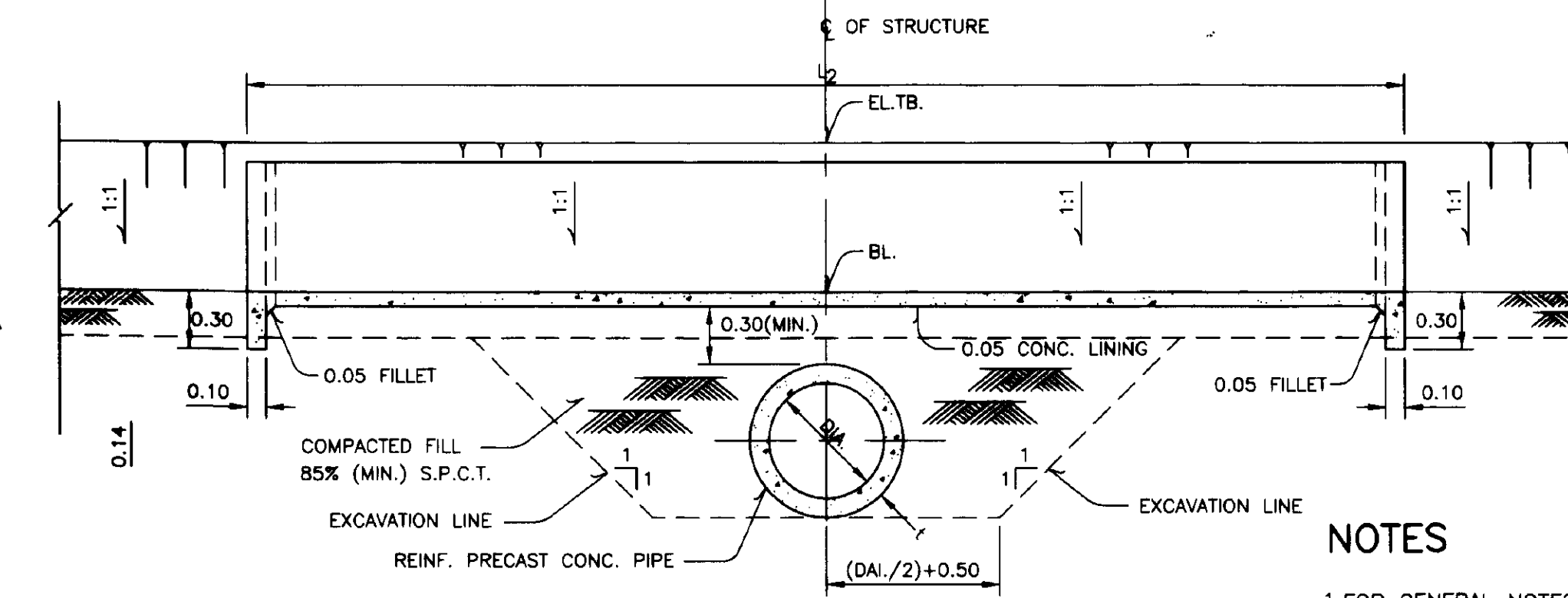
SECTION B-B
NOT TO SCALE



SECTION D-D
NOT TO SCALE



SECTION F-F
NOT TO SCALE



SECTION E-E
NOT TO SCALE

NOTES

1. FOR GENERAL NOTES AND LEGEND REFER TO DWG. NO. 165500, 165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METER UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD
4. FOR DIA. OF ROWS, DIMENSIONS AND ELEVATIONS OF DITCH SECTION—SEE DITCH PROFILE
5. USE L_2 IN CASE OF EARTH DITCH

REFERENCE DRAWING

1. TYPICAL REINFORCED PRECAST CONCRETE PIPE DWG. NO. 16551-2-002
2. TYPICAL JOINT AND PLACMENT OF PRECAST CONC. PIPE DWG. NO. 16551-2-004

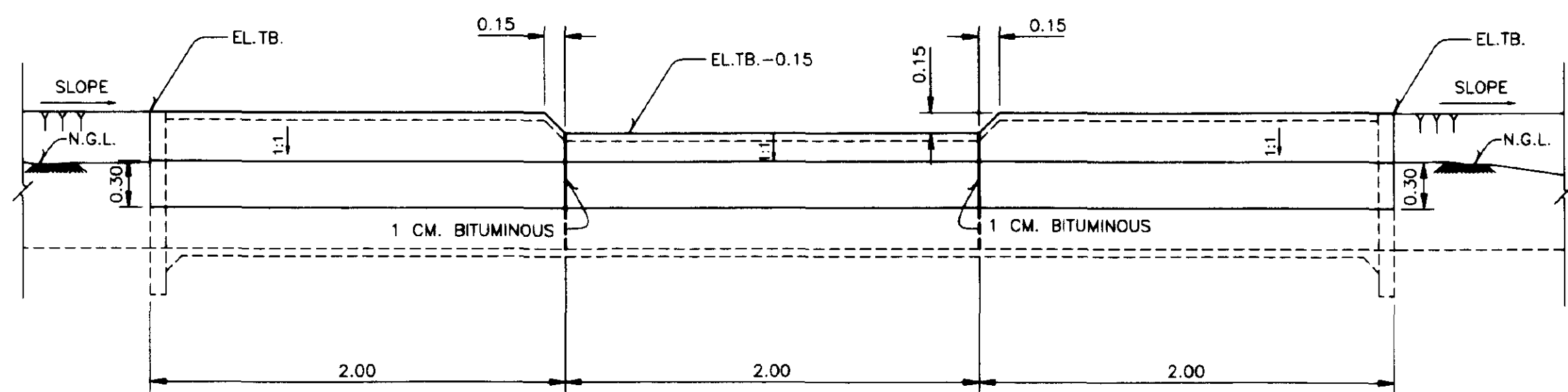
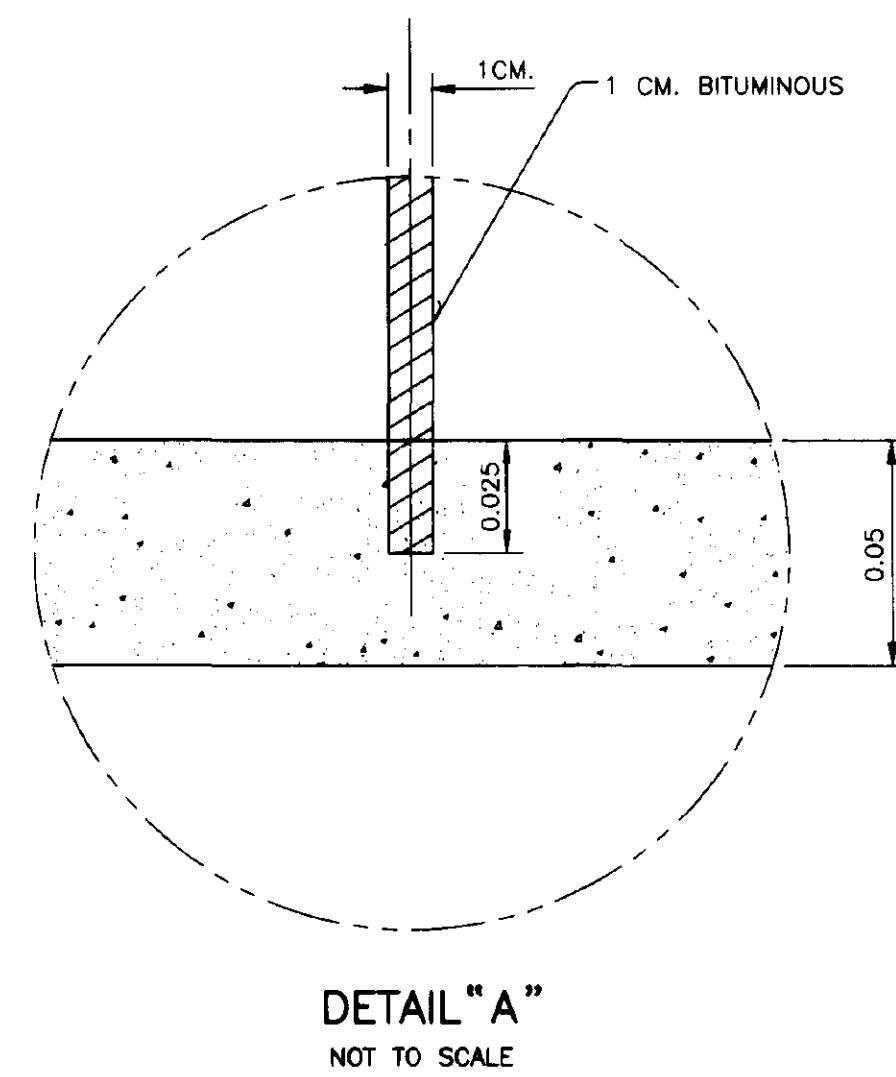
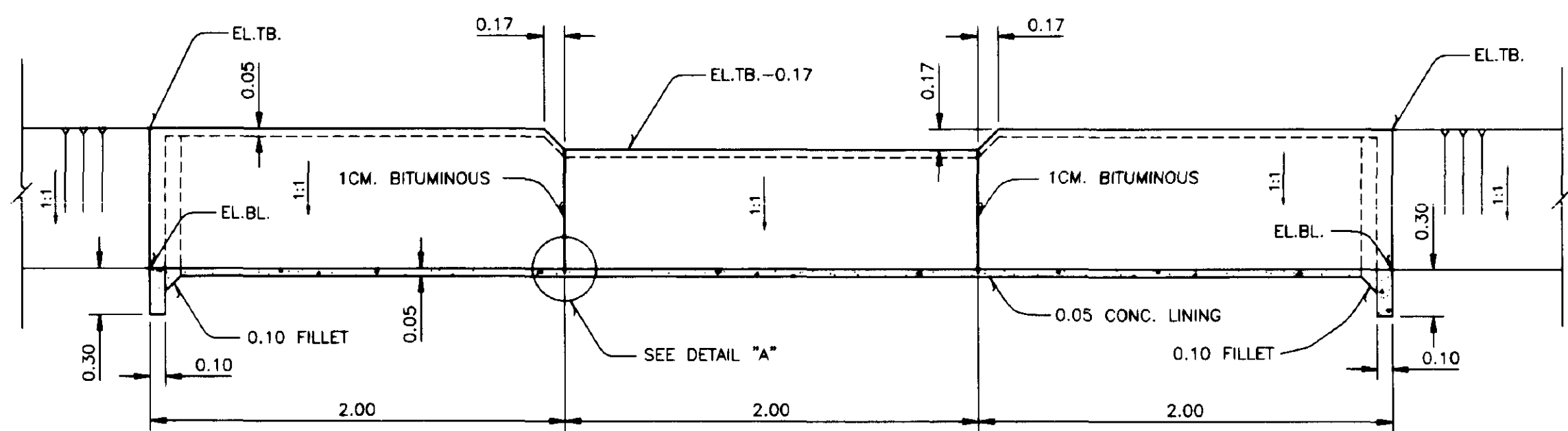
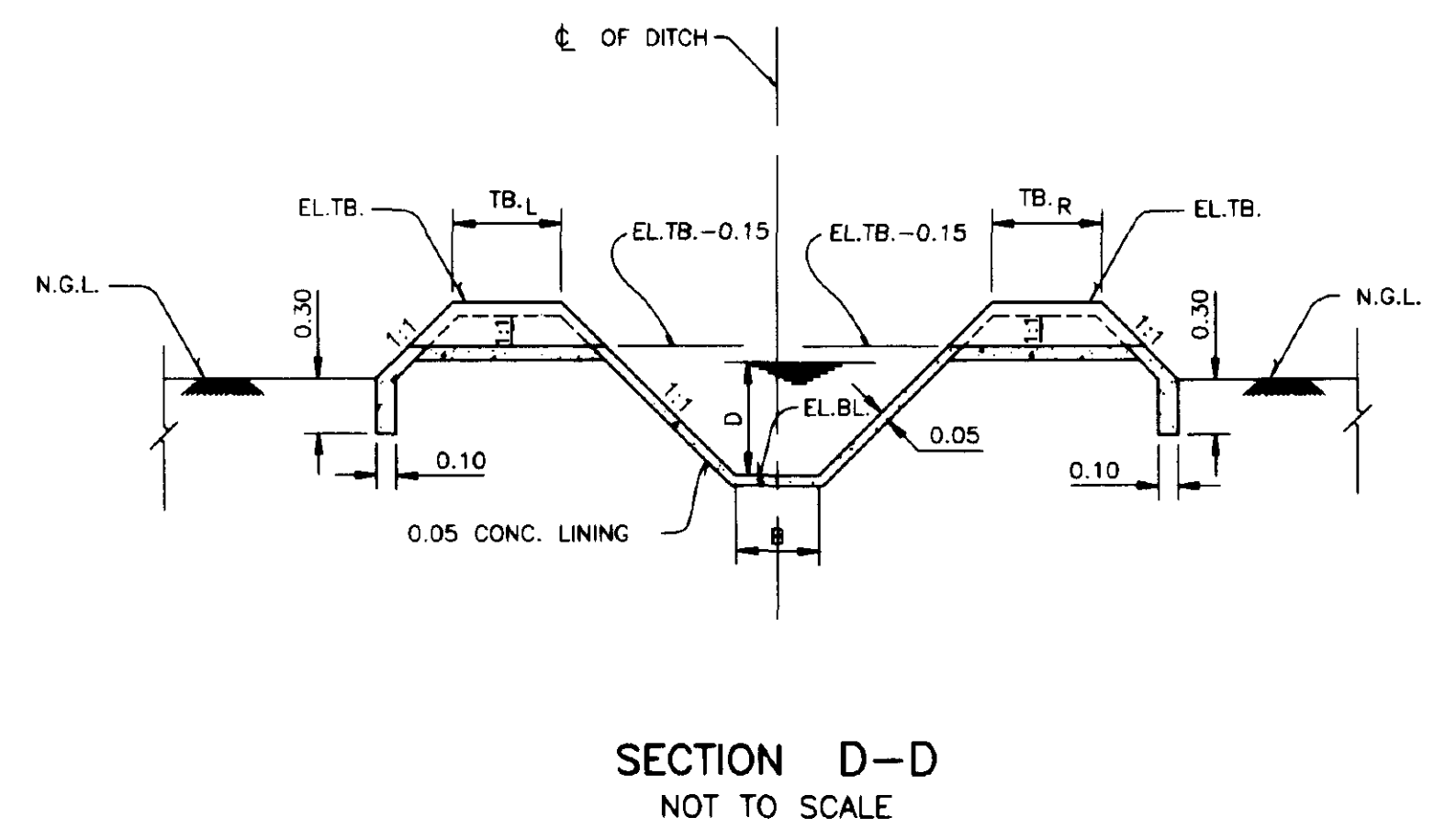
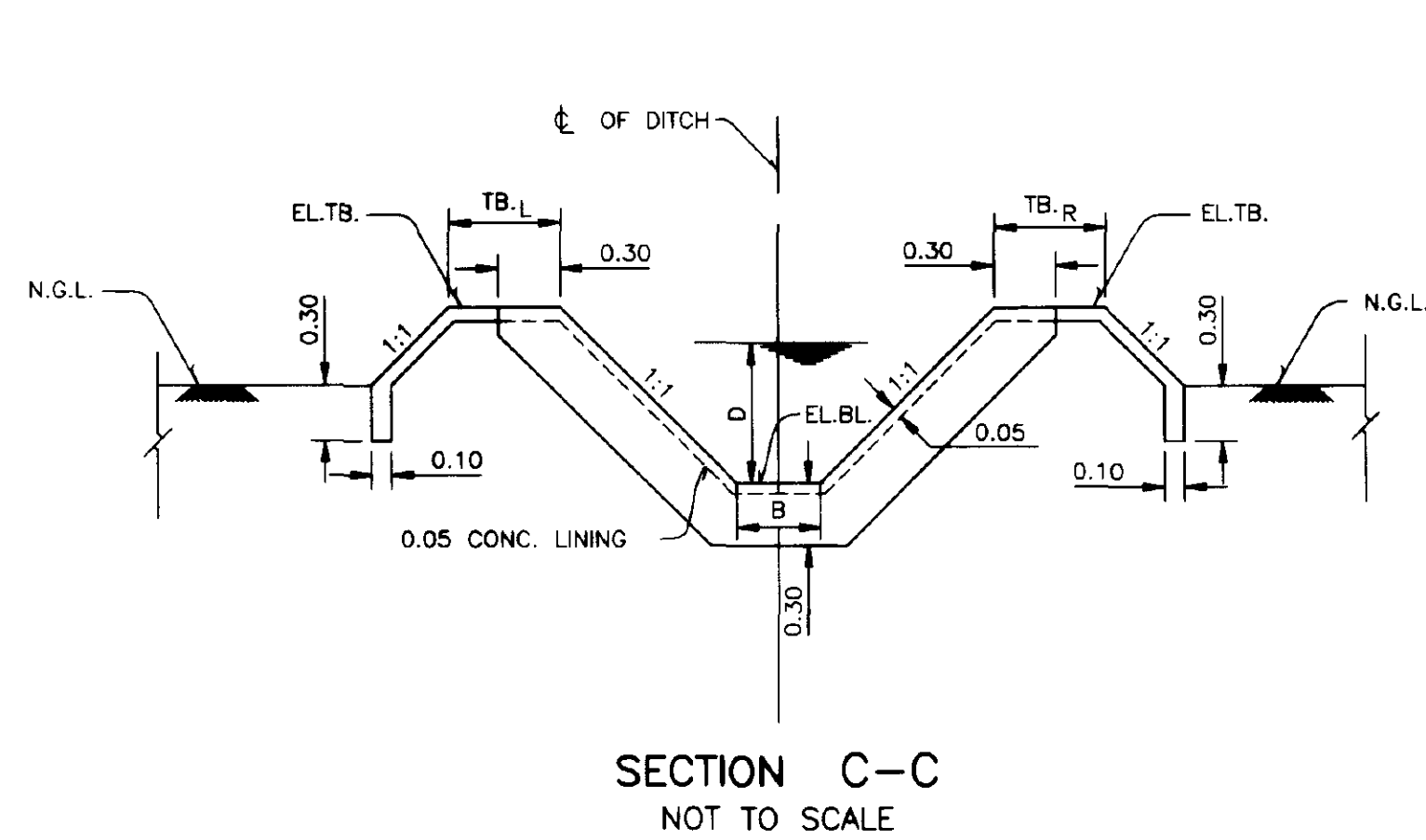
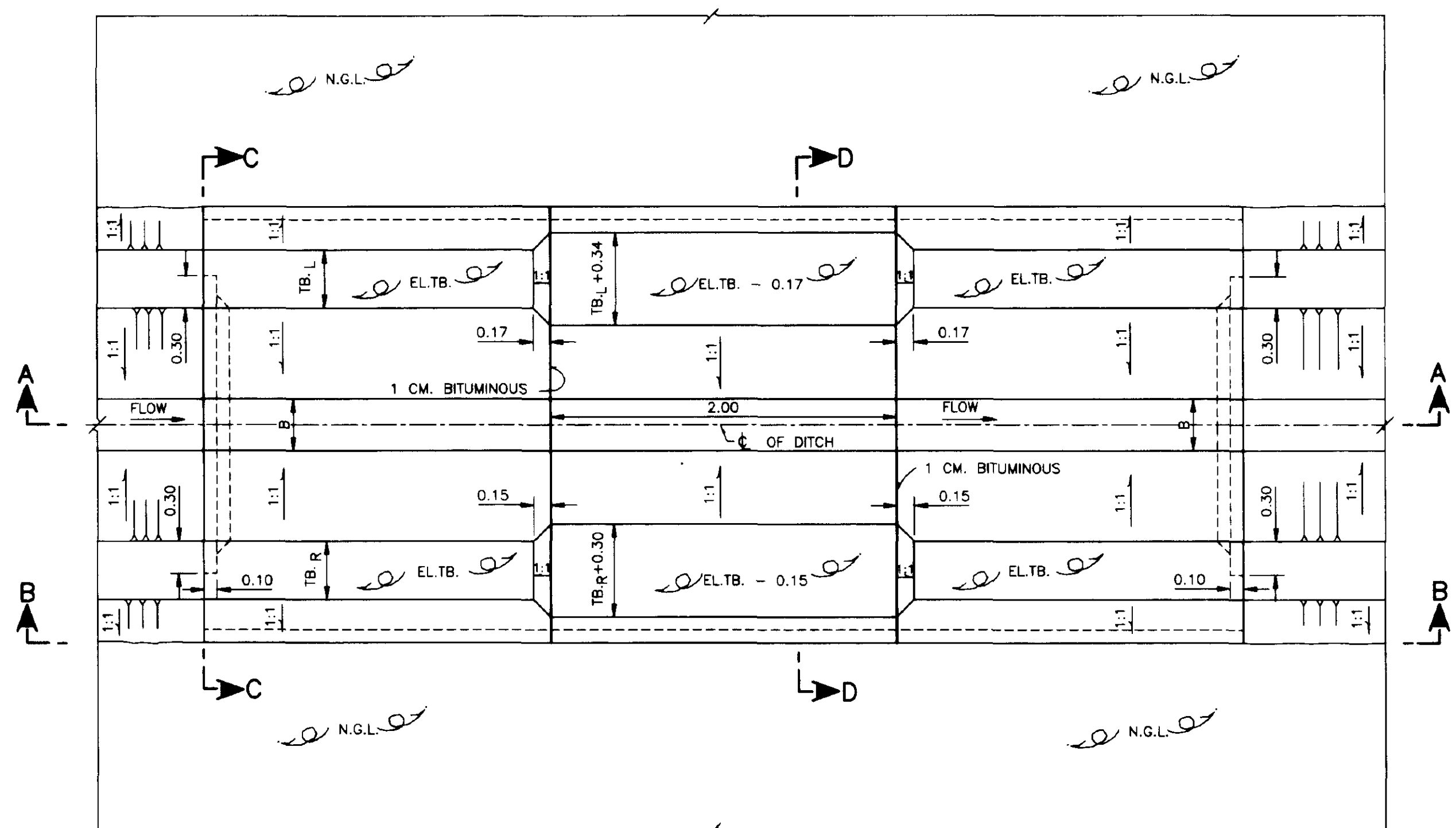
TABLE OF DIMENSION

DRAIN DISCHARGE (CMS.)	PIPE DIA. Ø(M.)	NO. OF ROWS	L_2 (M.)
0.140	0.50	1	5
0.200	0.60	1	5
0.375	0.80	1	5
0.600	1.00	1	5
0.280	0.50	2	7
0.400	0.60	2	7
0.750	0.80	2	7
1.200	1.00	2	7

ROYAL IRRIGATION DEPARTMENT ON-FARM IRRIGATION SYSTEM TYPICAL DRAIN CULVERT

PLANS & SECTIONS

DESIGNED	Shanmugan	SUBMITTED	Sathya	CS.
DRAWN	Napadol K.	REVIEWED	Sathya	DDD.
TRACED	Kulaya T.	RECOMMENDED	Sathya	Dir.OEDA
CHECKED	Sathya	APPROVED	Sathya	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED REVIEWED RECOM. APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE 5/11/42 ON-FARM IRRIGATION SYSTEM DESIGN BRANCH DATE				

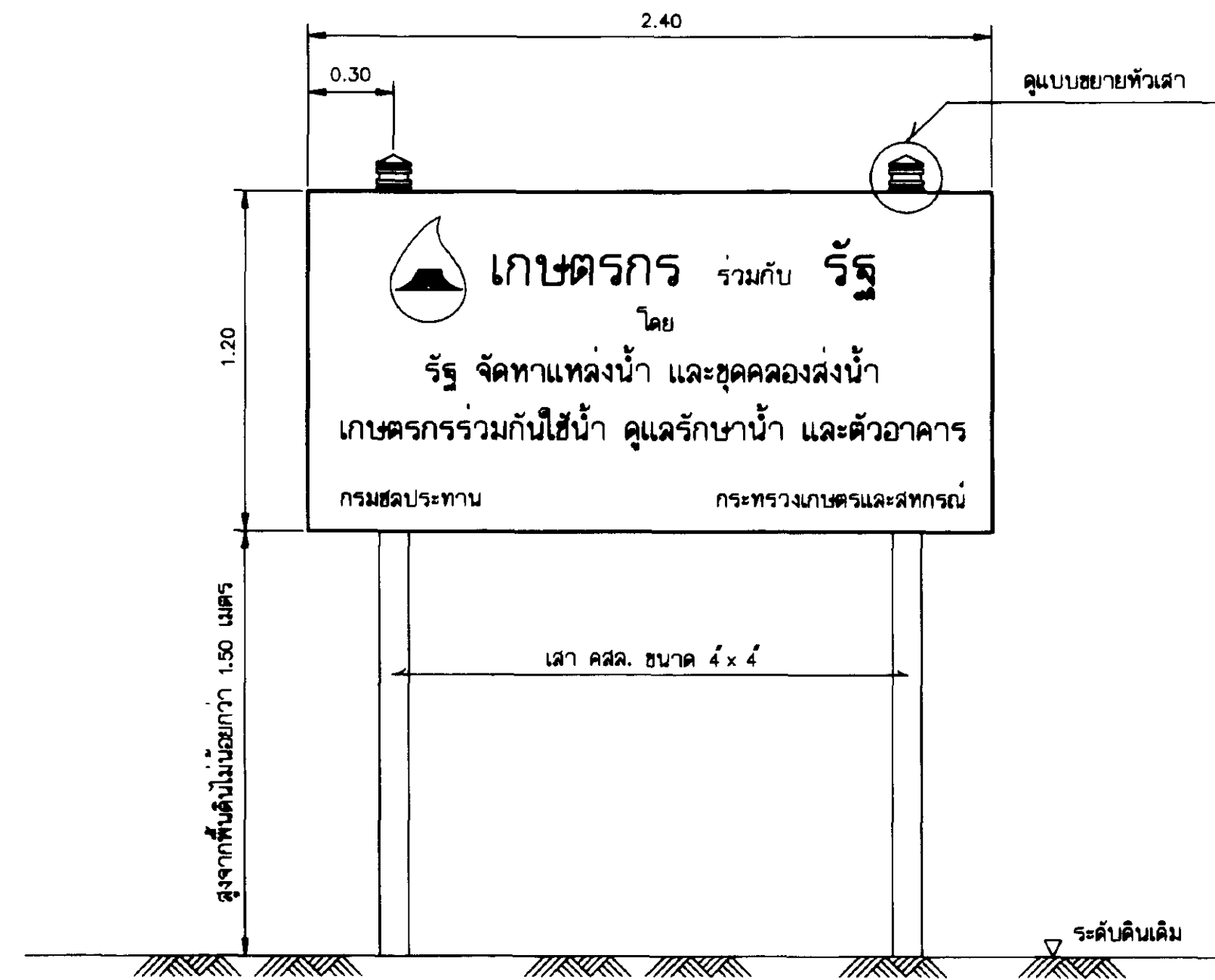


NOTES

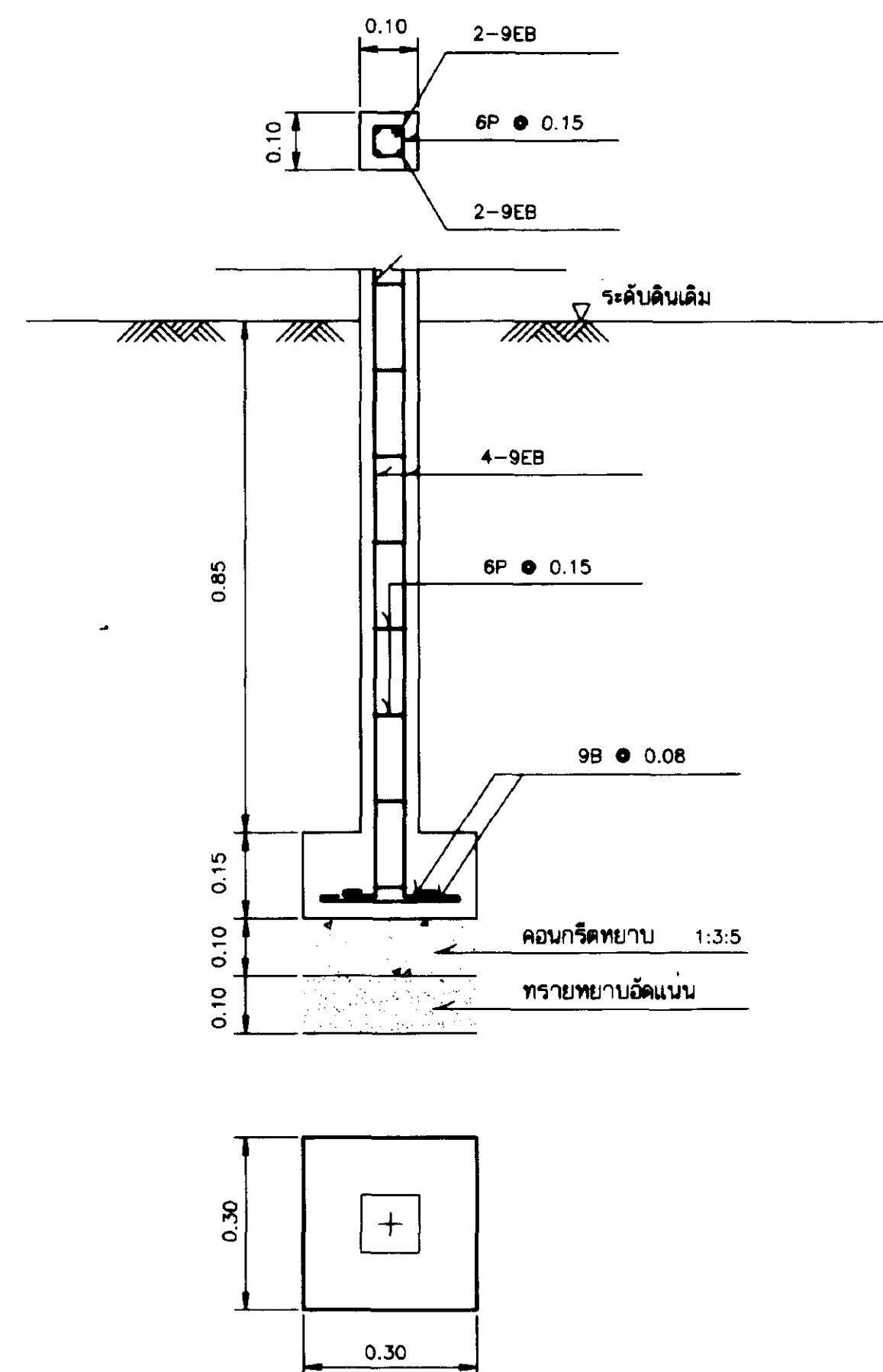
1. FOR GENERAL NOTES AND LEGEND REFER TO DWG.NO.165500,165501
2. ALL DIMENSIONS AND ELEVATIONS (M.S.L.) ARE IN METERS UNLESS OTHERWISE SHOWN
3. DRESSING OF GROUND TO SUIT THE STRUCTURE TO BE DETERMINED IN FIELD

ROYAL IRRIGATION DEPARTMENT
ON-FARM IRRIGATION SYSTEM
TYPICAL WASTEWAY STRUCTURE
PLAN , SECTIONS AND DETAILS

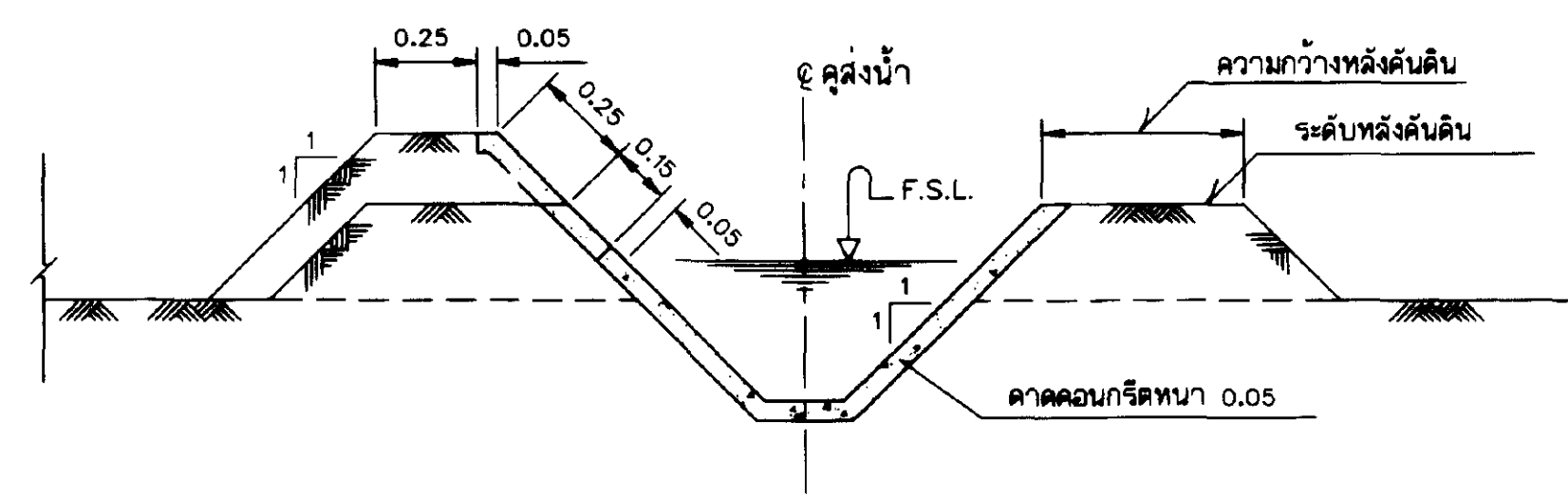
DESIGNED	Charanwong Wongsiribet	SUBMITTED	Rangson Sijakha	CS.
DRAWN	Charanwong Wongsiribet	REVIEWED	P. B. 1792	DDD.
TRACED	Charanwong Wongsiribet	RECOMMENDED	Sawade	Dir.OEDA
CHECKED	Rangson Sijakha	APPROVED	Sawade	DG.
REV. NO.	LOCATION	DESCRIPTION	DATE	CHECKED SUBMITTED
				REVIEWED RECOM. APPROVED
OFFICE OF ENGINEERING DESIGN & ARCHITECTURE 5/11/42				165537
ON-FARM IRRIGATION SYSTEM DESIGN BRANCH				DATE



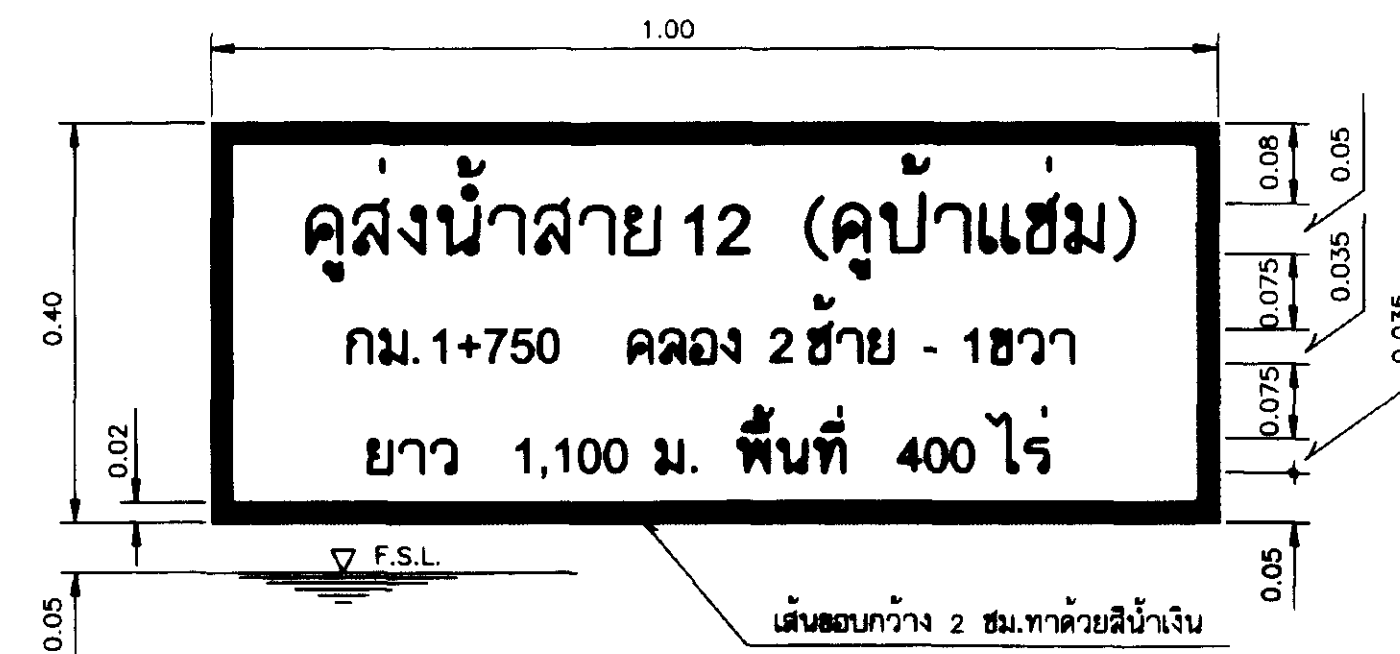
รูปด้านหน้า
มาตราส่วน 1:20



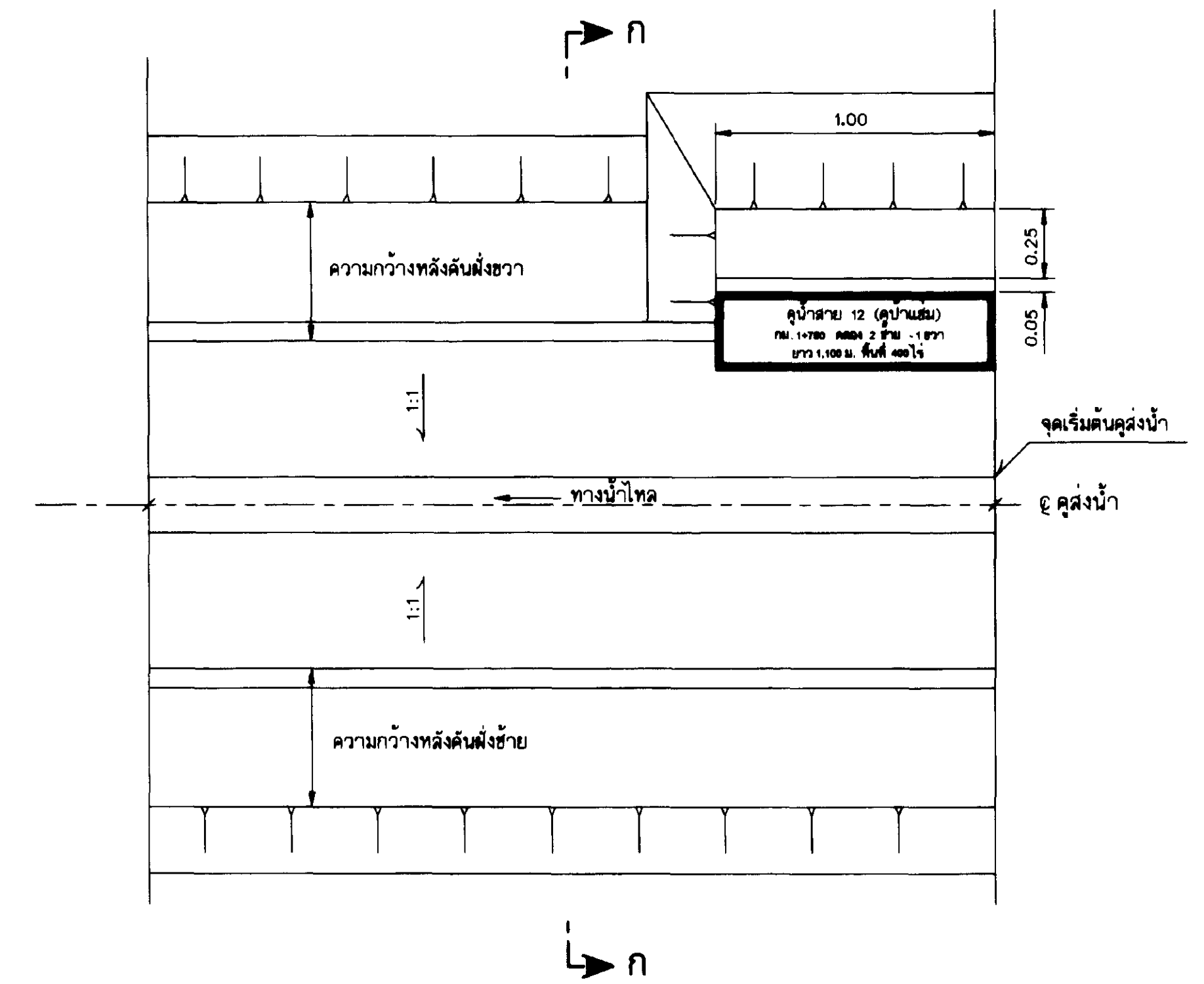
ชยายฐานรากและเสา
มาตราส่วน 1:10



รูปตัด ก - ก
ไม่แสดงมาตราส่วน



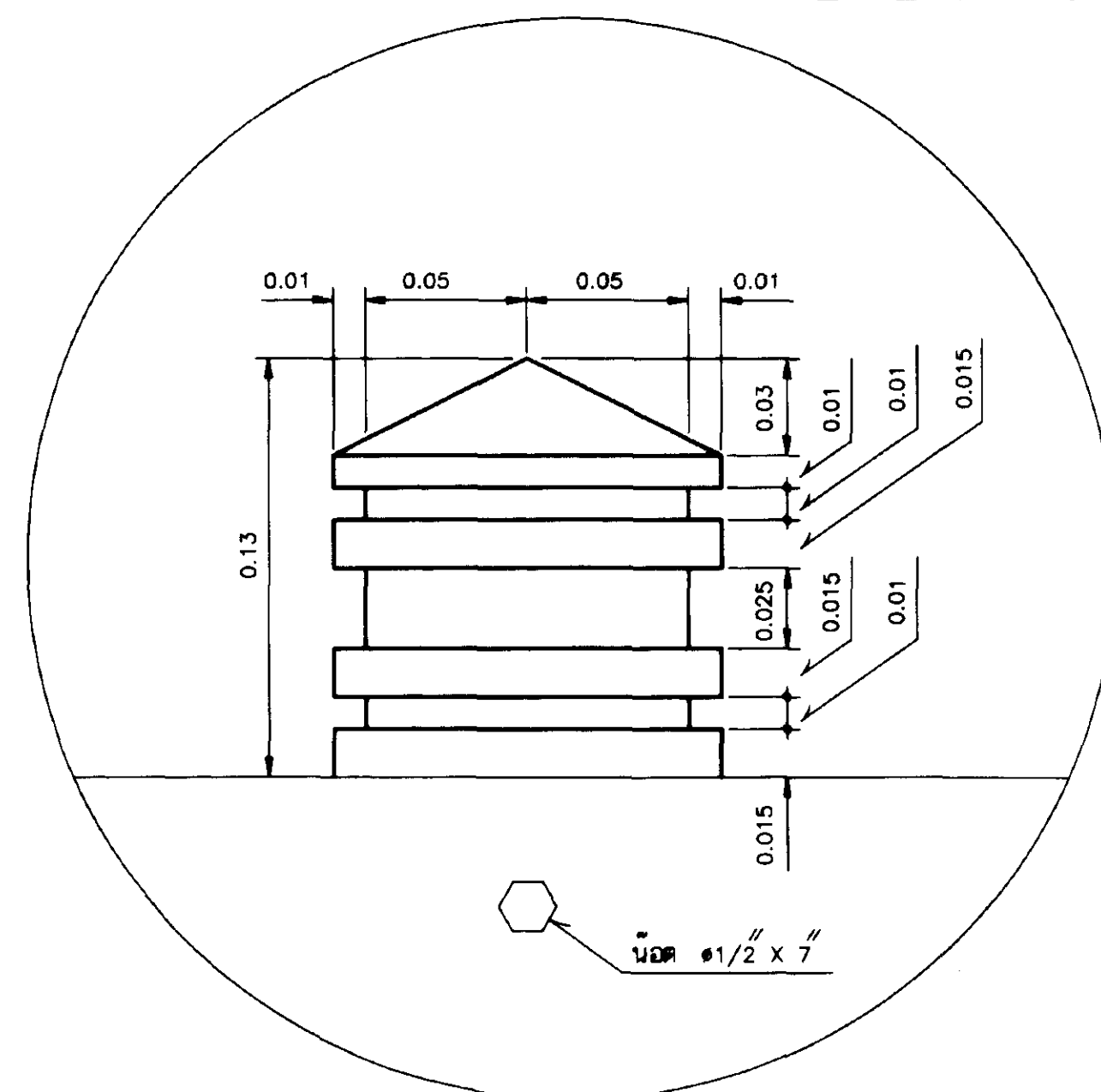
รูปขยายป้ายข้อความ
ไม่แสดงมาตราส่วน



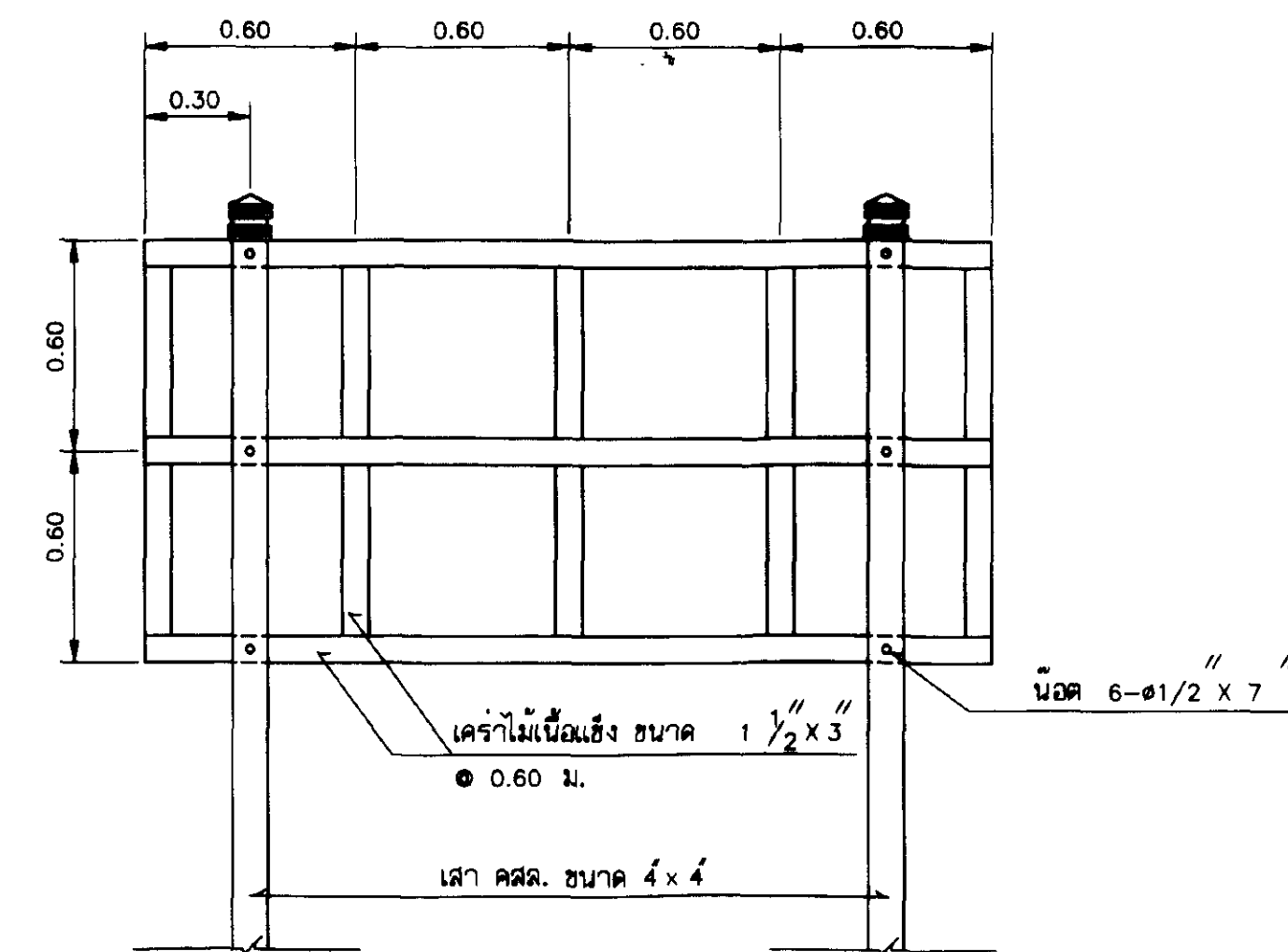
แปลนตำแหน่งป้ายชื่อคุณน้ำ
ไม่แสดงมาตราส่วน

แบบบ้านคุณน้ำ

ปัจจัยกิจกรรมต่อเนื่องในเขตคูน้ำ



ขยายทั่วเสา
มาตราส่วน 1:2



ขยายโครงคร่าไม้
มาตราส่วน 1:20

รายการประกอบแบบ

ป้ายกิจกรรมต่อเนื่องในเขตภูน้ำ

1. แผ่นบ้ายี่ใช้สังกะสีแผ่นเรียบ โครงสร้างไม้เนื้อแข็ง ขนาด $1\frac{1}{2} \times 3$ • 0.60 ม. ทาด้วยสีชนิดทาภายนอกสีขาว ตัวหนังสือใช้สีเขียวเข้มหรือเขียวแกมดำ
2. ให้อัดแผ่นบ้ายี่ลงในเขตก่อสร้างด้านหน้าบริเวณใกล้หมู่บ้านหรือชุมชน
ข้างทางสัญจรหรือคลองส่งน้ำ
3. การจัดทาบ้ายี่ และกำหนดจุดติดตั้งเป็นโครงการส่งน้ำและบำรุงรักษา
หรือโครงการชลประทานจังหวัด โดยอาจมอบหมายให้กลุ่มหรือสมาคม
ผู้รับจ้างผลิตซองแลกรักษา

แบบบ้านคูน้ำ

1. ตัวอักษรใช้สีน้ำเงินบนพื้นสีขาว
2. บ้ายชื่ออยู่บนลาดคอนกรีตคาด พังราชของคูน้ำตรงจุดเริ่มต้นคูส่งน้ำ
3. ขนาดต่าง ๆ ที่แสดงในแบบ หน่วยเป็นเมตร นอกจากแสดงไว้เป็นอย่างอื่น

กรมชลประทาน				
แบบมาตรฐาน				
ป้ายกิจกรรมในเขตคันคูน้ำ และ				
ป้ายชื่อคลองน้ำ				
ออกแบบ	<i>[Signature]</i>	เสนอ	<i>[Signature]</i>	ทศน. 4
เขียน	<i>[Signature]</i>	ผ่าน	<i>[Signature]</i>	ผนบ.
ลอก	<i>[Signature]</i>	เพ็ญชอบ	<i>[Signature]</i>	ผส.อบ
ตรวจ	<i>[Signature]</i>	อนันต์	<i>[Signature]</i>	อชส.
สำนักงานชลประทานที่ ๑๑ กรุงเทพมหานคร ๑๑๐๐๑				
วันที่ ๑๑/๑๑/๖๕				