

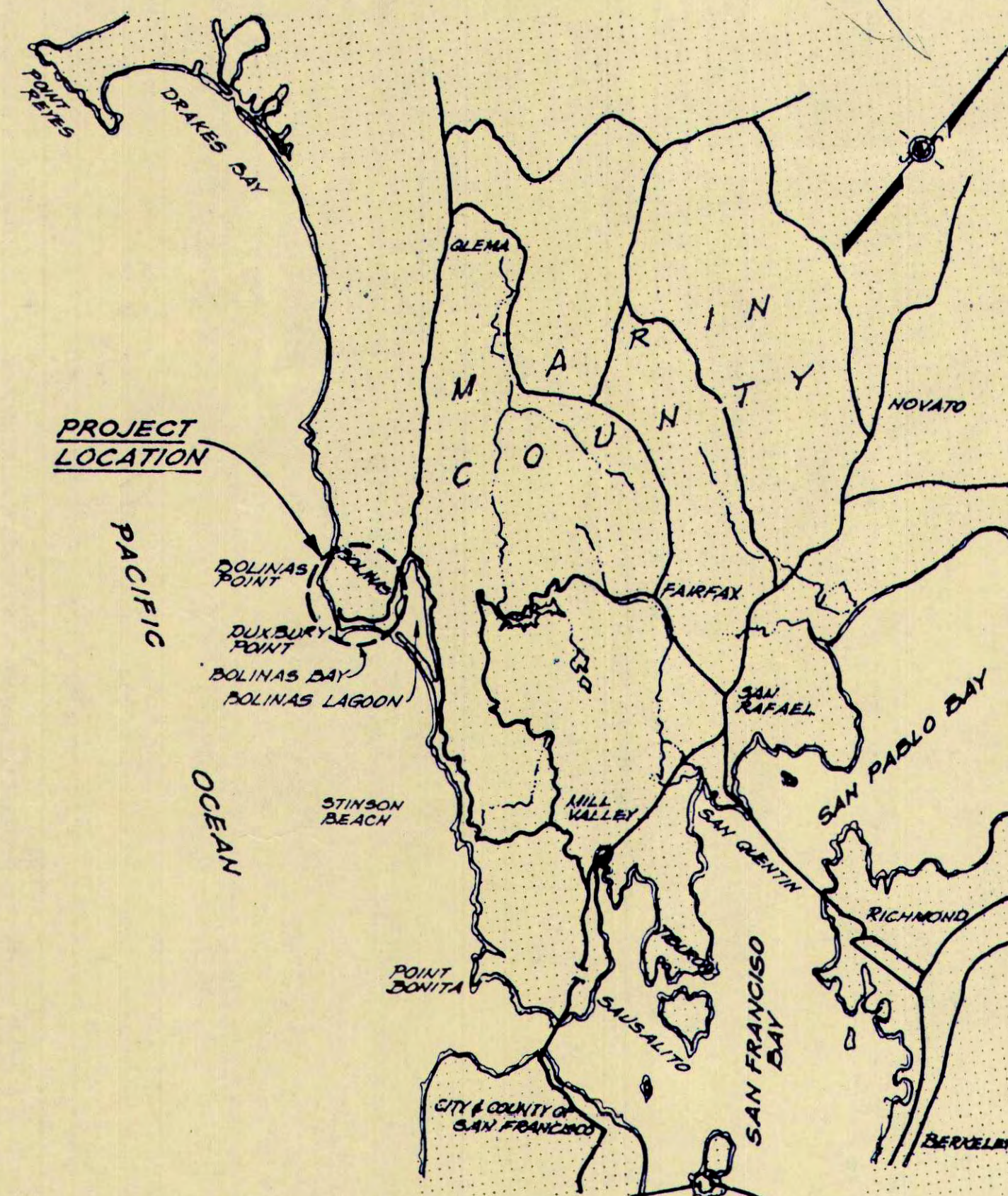
BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT WASTEWATER TREATMENT AND DISPOSAL SYSTEM

BOARD OF DIRECTORS

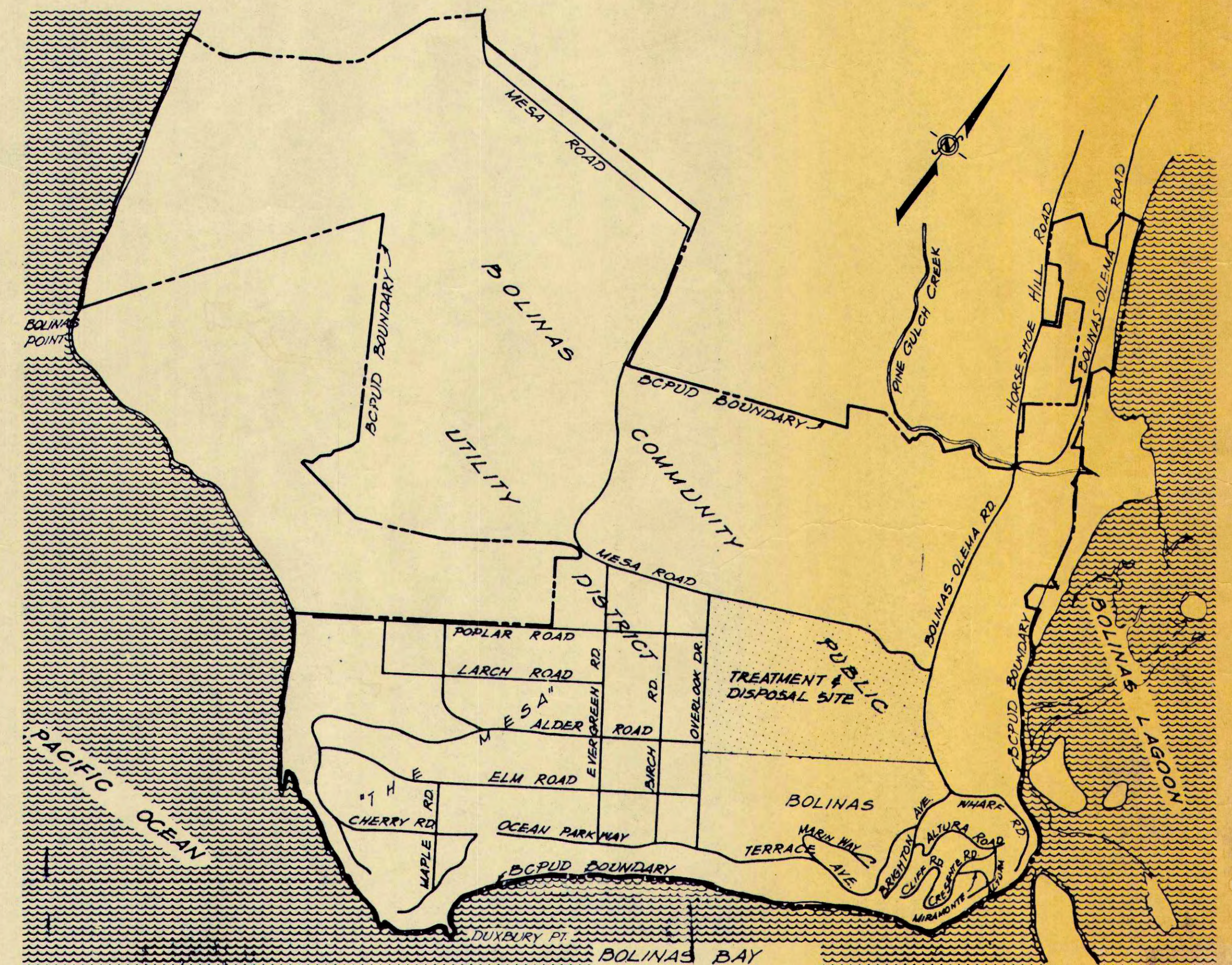
William E. Niman - President
 Gregory C. Hewlett
 Marguerite K. Harris
 Orville H. Schell
 Paul Kayfetz

STAFF

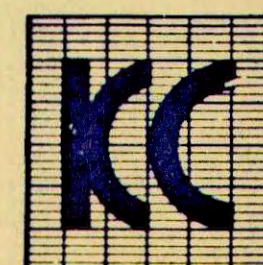
Lyman N. Robinson - Secretary



VICINITY MAP

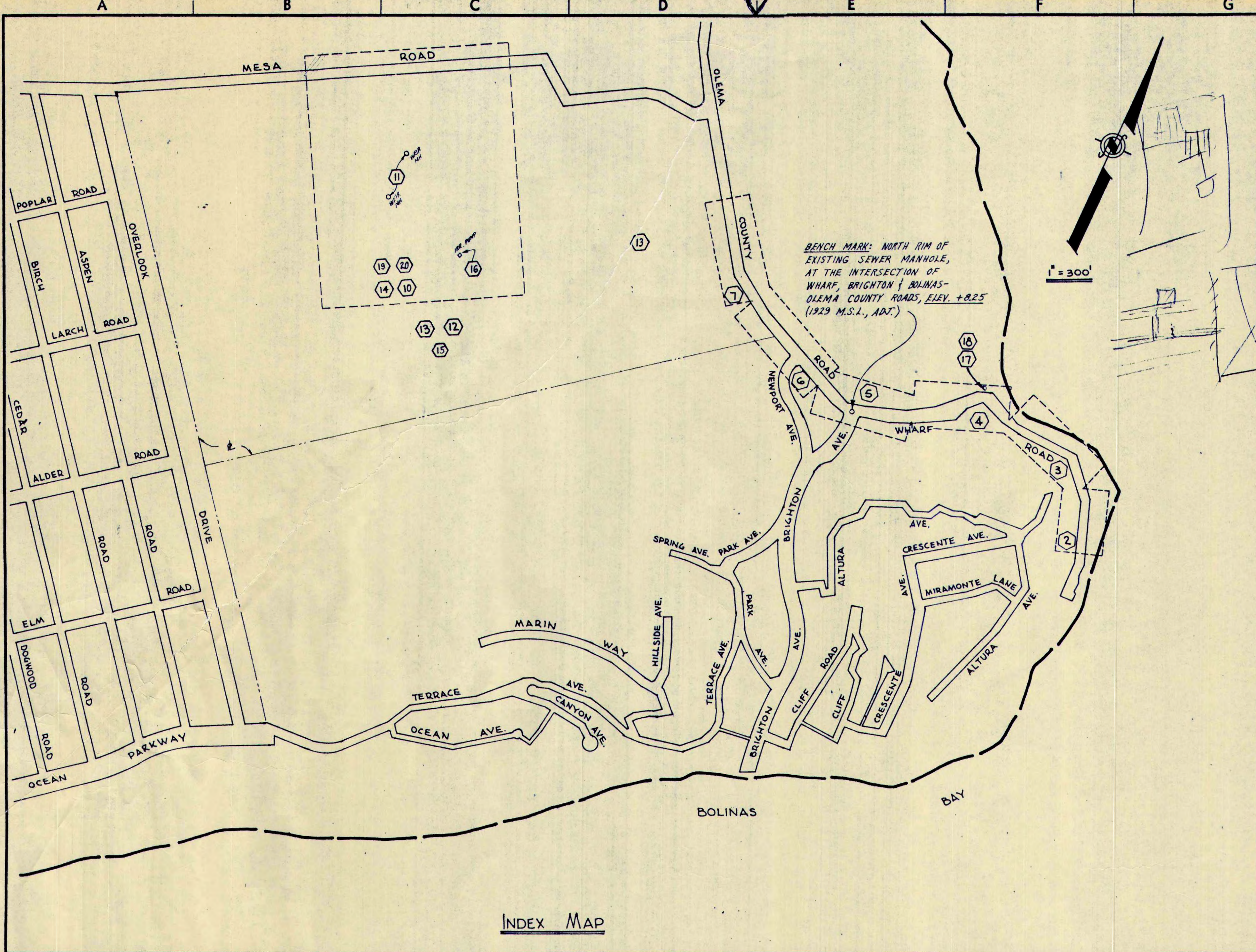


LOCATION MAP



KIRKER, CHAPMAN & ASSOCIATES
 Consulting Civil Engineers • Surveyors • Land Development Planners
 San Francisco 415-382-1018

SYSTEM DESIGN IN CONSULTATION WITH
 WILLIAM J. OSWALD Ph. D.
 RCE 18287



INDEX MAP

LEGEND
(SH. 2 THRU 9)
EXISTING UTILITIES

- W 8" — WATER MAIN & SIZE
- W 1" — WATER SERVICE & METER
- F.H. — FIRE HYDRANT
- G.V. — GATE VALVE
- S.S. — SANITARY SEWER & MANHOLE
- S.D.M.H. — 30" S.D. — STORM DRAIN & MANHOLE
- [] — DROP INLET & CULVERT
- (P.P.) — POWER POLE (T.P. TELEPHONE POLE)
- (J.P.) — JOINT-USE POLE
- T — TELEPHONE SERVICE
- [] — RETAINING WALL
- E.P. — EDGE OF PAVEMENT

• SHEET INDEX •

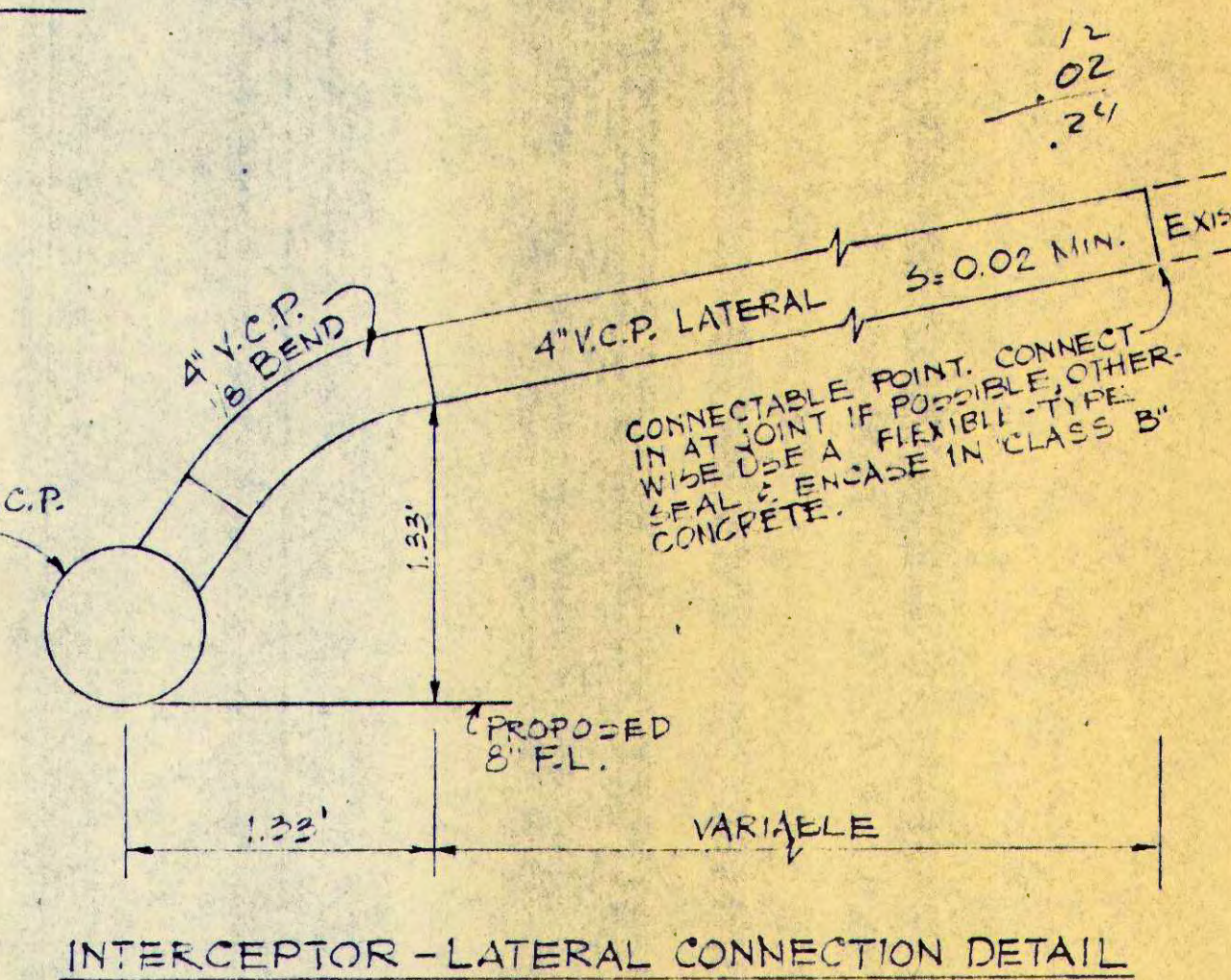
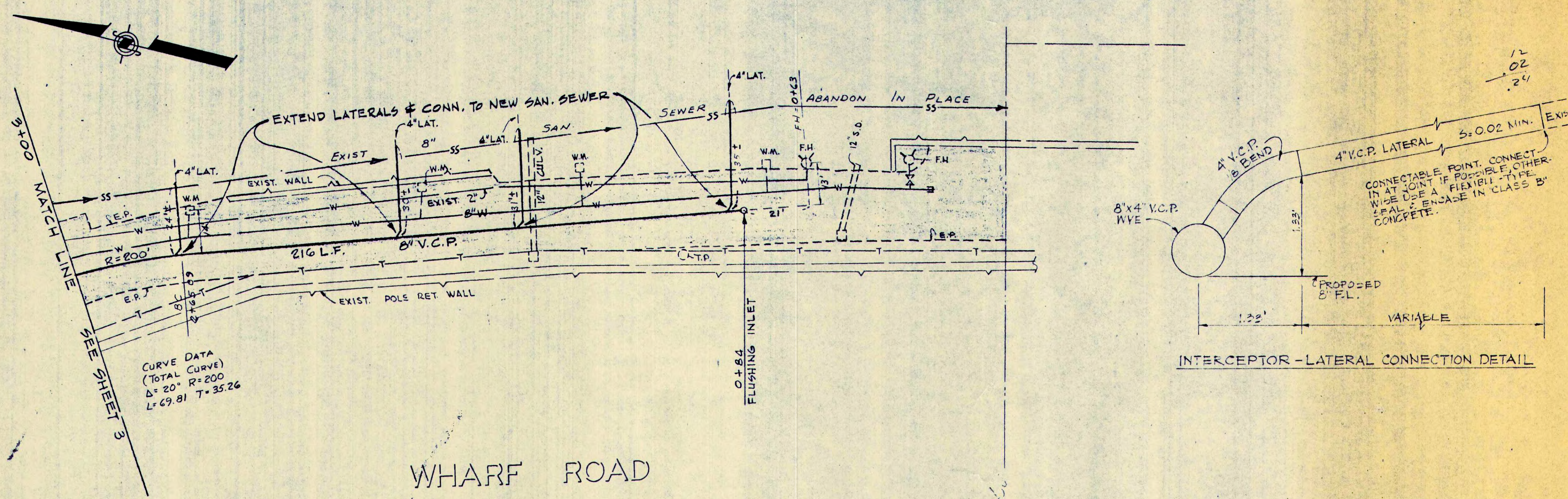
No.	DESCRIPTION
(-)	COVER SHEET
(1)	INDEX SHEET
(2)	INTERCEPTOR SEWER STA. 0+84 TO STA. 3+00
(3)	" " STA. 3+00 TO STA. 7+95
(4)	" " STA. 7+95 TO STA. 9+83
(4)	FORCE MAIN STA. 9+80 TO STA. 13+00
(5)	" " STA. 13+00 TO STA. 18+00
(6)	" " STA. 18+00 TO STA. 23+00
(7)	" " STA. 23+00 TO STA. 25+75
(8)	} DELETED (SEE SHEET 13 FOR ON-SITE FORCE MAIN)
(9)	
(10)	POND PIPING PLAN
(11)	WEIR MANHOLE DETAILS
(12)	IRRIGATION PLAN & DETAILS
(13)	POND GRADING PLAN - 100 SCALE
(14)	" " " - 40 SCALE
(15)	FLOW DIAGRAM - SCHEMATIC
(16)	IRRIGATION PUMPS - PLAN & DETAILS
(17)	SEWAGE LIFT STATION - PLAN & DETAILS
(18)	" " " - DETAILS
(19)	TYPICAL DETAILS
(20)	" "

CONTRACTOR NOTE:
DISTRICT PROPOSES TO AWARD A SEPARATE CONTRACT FOR THE SERVICE BUILDING AND APPURTENANT ASSOCIATED WORK, WHICH MAY BE IN PROGRESS SIMULTANEOUSLY. CONTRACTOR SHALL COORDINATE HIS WORK WITH THE SERVICE BLDG. CONTRACTOR AS NECESSARY.

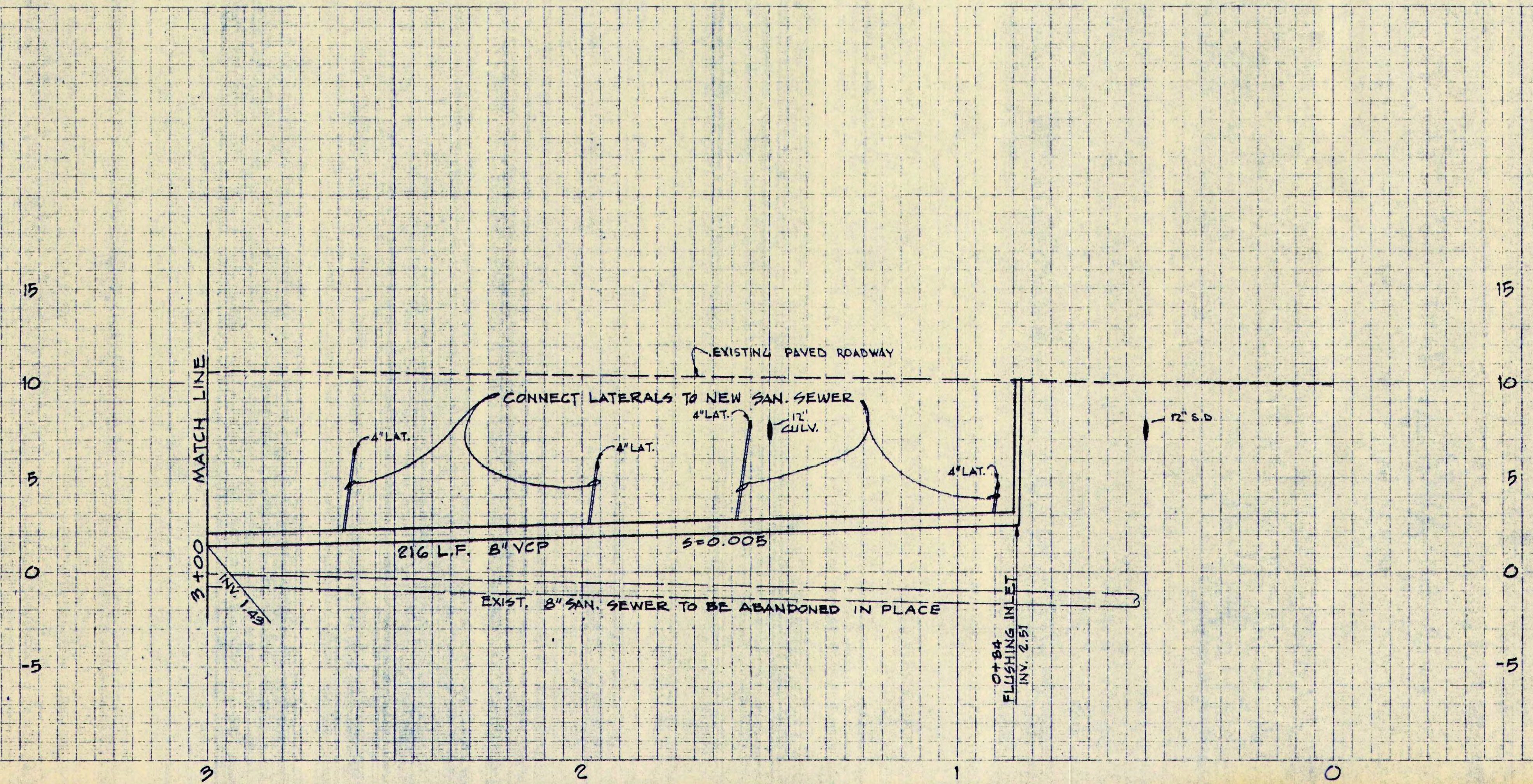
DES. ELS.	CHKD.	DATE	SCALE	AS NOTED	NO.	DATE	BY	DESCRIPTION
					2	1-74		DELETED SHEETS 8-9
					1	12-73		SUBMITTED "X-RAY" ALTERNATE, REVISED "X-RAY" DESIGN TO "Y-RAY" DESIGN PER M.D.

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT AND DISPOSAL SYSTEM
INDEX SHEET

KC
JOB NO. 834
SHEET 1 OF 20



WHARF ROAD



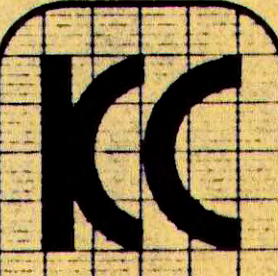
NOTE: EXISTING UTILITIES SHOWN ARE APPROXIMATE, HAVING BEEN COMPILED FROM RECORD DATA. CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.

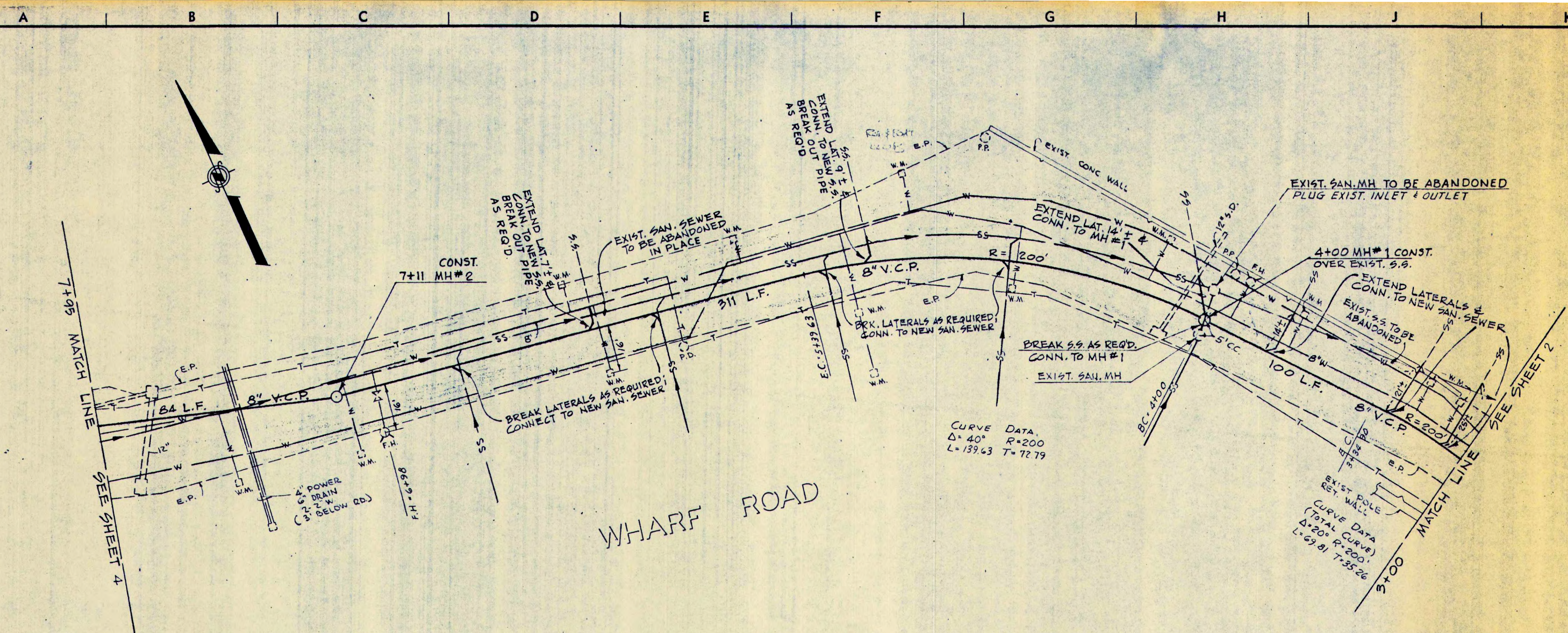
DES. ELS	DRW. EV	NO.	DATE	BY	DESCRIPTION
CKD.	REV.				
DATE	1973				
SCALE	VERT. 1"=4' 0"				
	HORIZ. 1"=20'				

KIRKER, CHAPMAN & ASSOCIATES
 Consulting Civil Engineers
 San Francisco
 415 - 392-7241
 415 - 392-7242
 415 - 392-7243
 415 - 392-7244
 415 - 392-7245
 415 - 392-7246
 415 - 392-7247
 415 - 392-7248
 415 - 392-7249
 415 - 392-7250

Edward L. Spira
 EDWARD L. SPIRA R.C.E. PECS

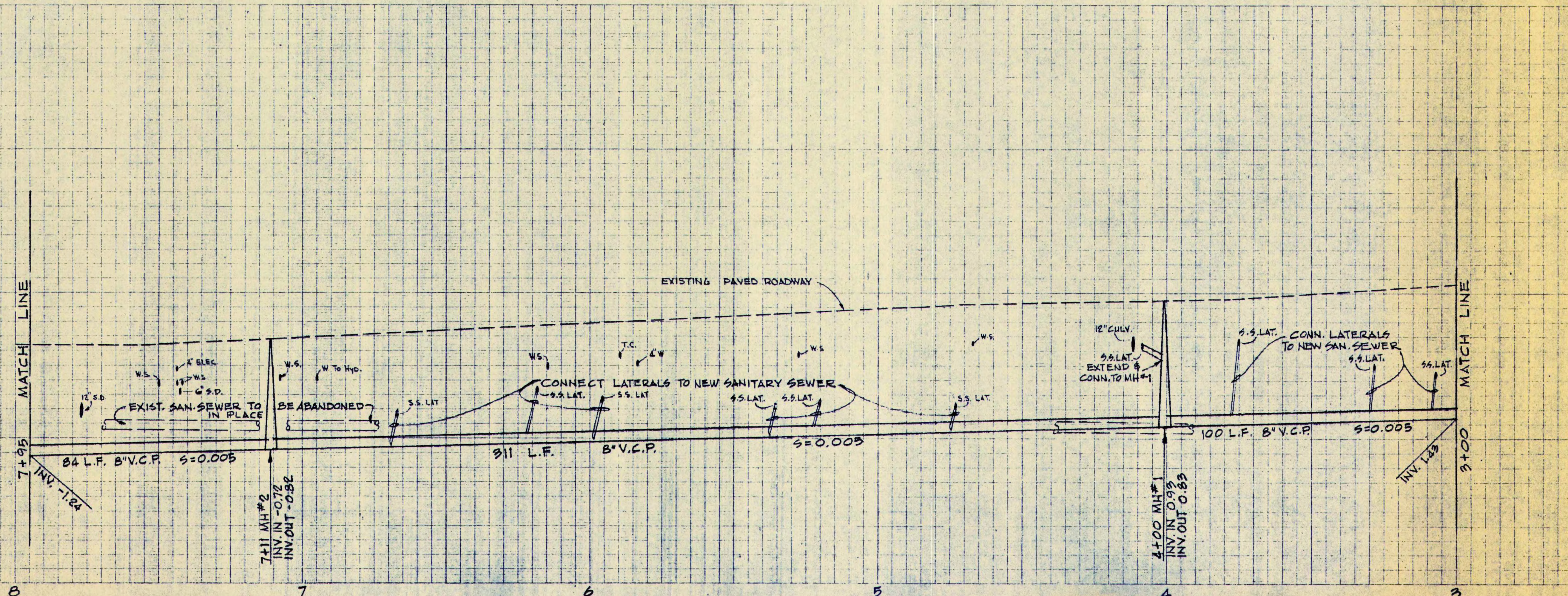
BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
 WASTEWATER TREATMENT AND DISPOSAL SYSTEM
 INTERCEPTOR SEWER
 PLAN & PROFILE
 STA. 0+84 TO STA. 2+00


 JOB NO.
 839
 SHEET
 2
 OF
 20



CURVE DATA
 $\Delta = 40^\circ$ $R = 200'$
 $L = 139.63$ $T = 72.79$

CURVE DATA
 (TOTAL CURVE)
 $\Delta = 20^\circ$ $R = 200'$
 $L = 69.81$ $T = 35.26$



KIRKER, CHAPMAN & ASSOCIATES
 Civil Engineers
 415 - 984-7244
 415 - 984-6710
 415 - 984-1240

DESIGNED BY: L.S.
 CHECKED BY: L.S.
 DATE: _____

REVISIONS

NO.	DATE	DESCRIPTION

SCALE
 HORIZ. 1"=20'
 VERT. 1"=4'

EDWARD L. SHIRA P.C.E. 151.95

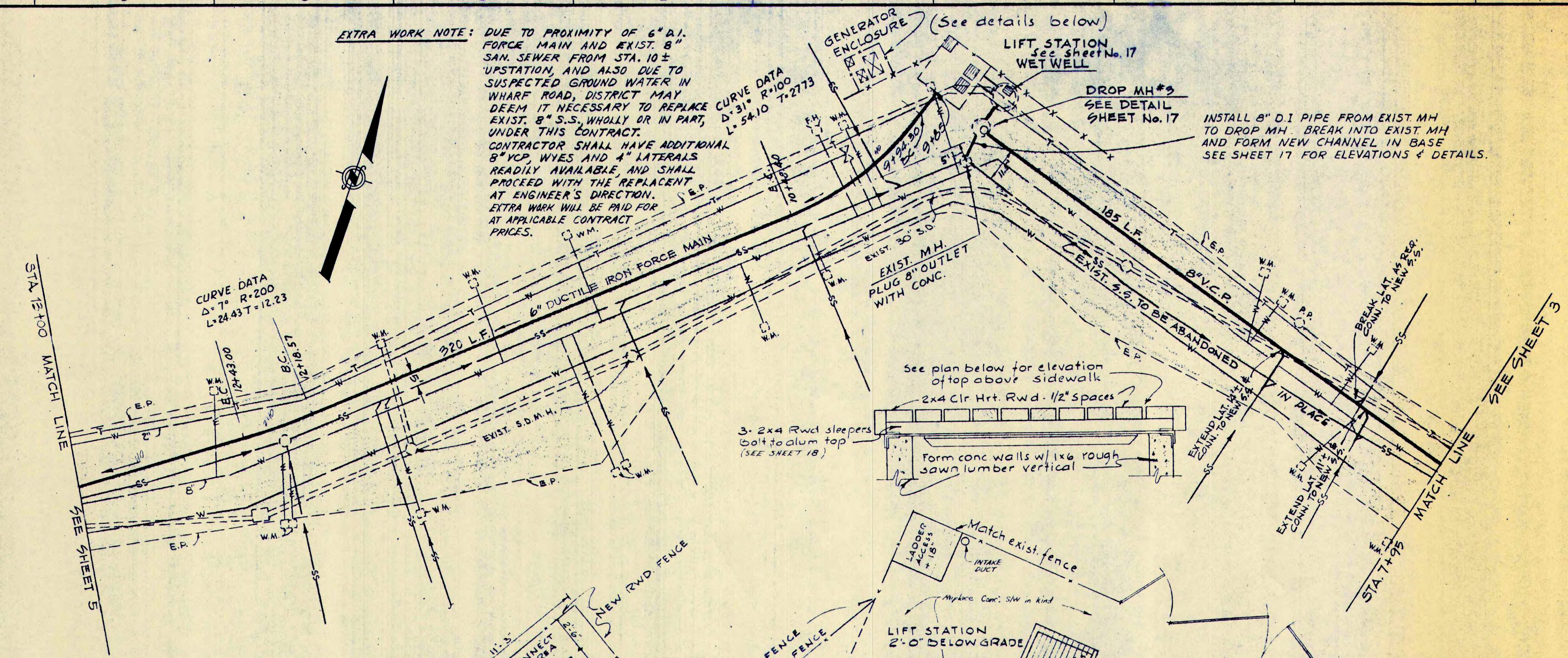
BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
 WASTEWATER TREATMENT AND DISPOSAL SYSTEM
 INTERCEPTOR SEWER
 PLAN & PROFILE
 STA. 3+00 TO STA. 7+95

KC

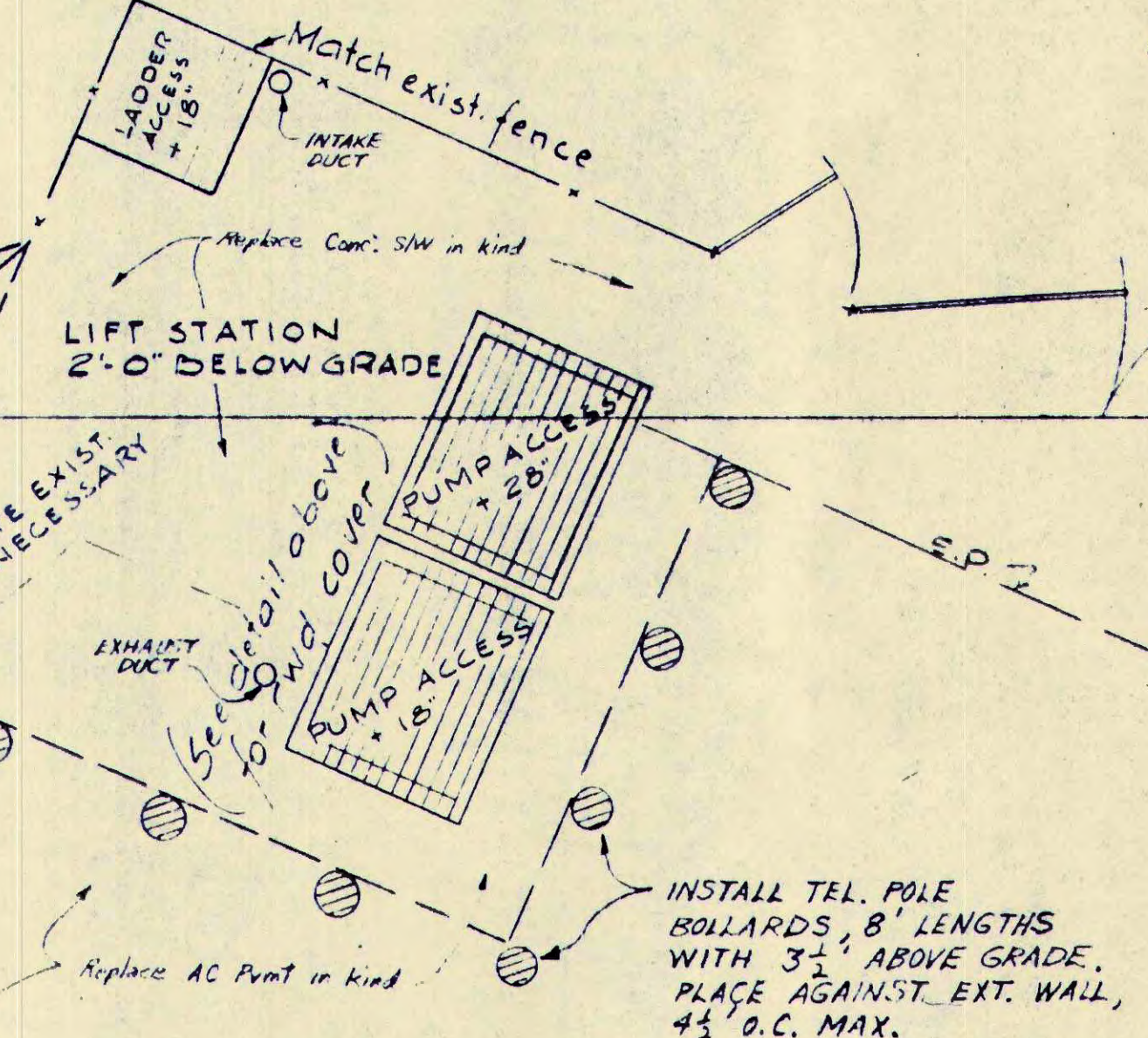
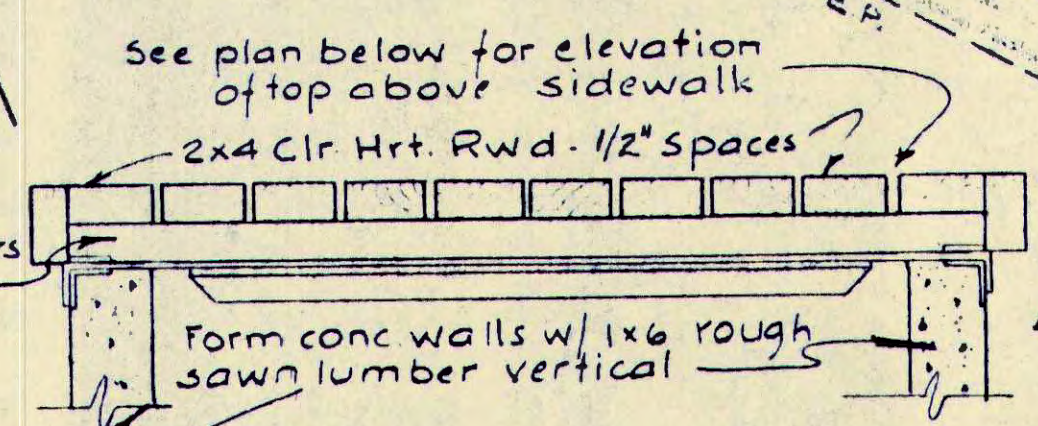
JOB NO.
 839

SHEET
 3
 OF
 20

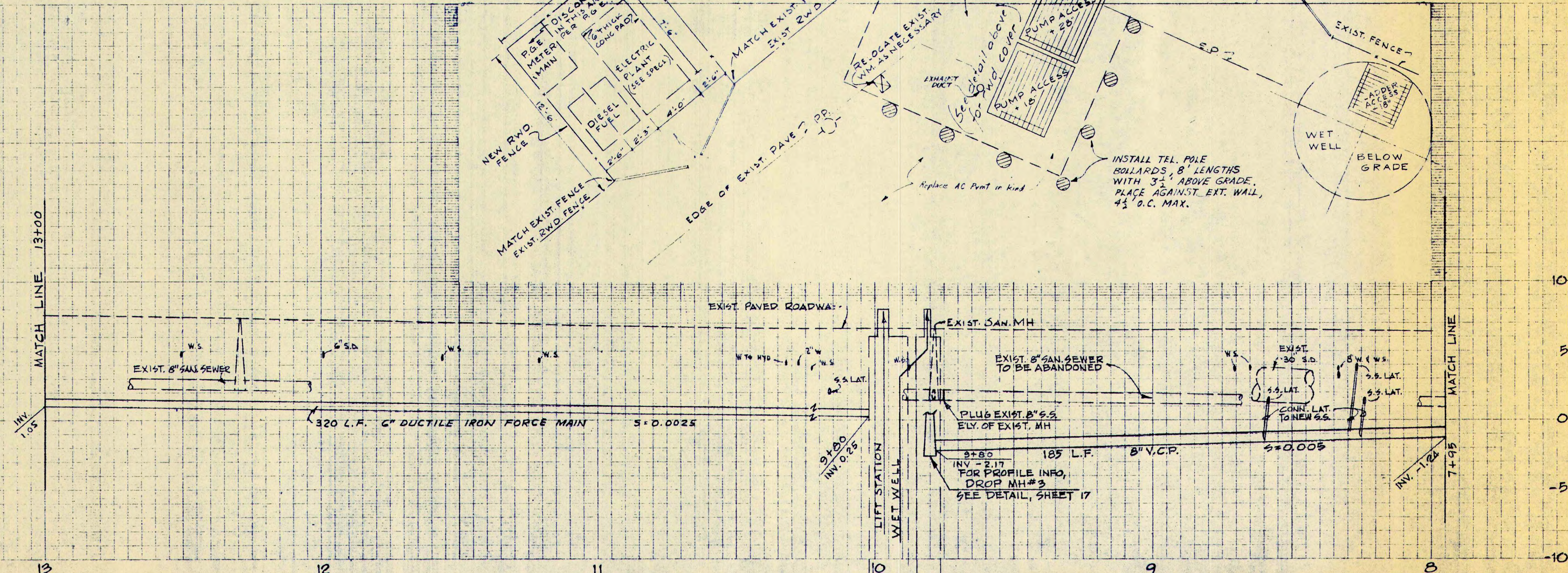
EXTRA WORK NOTE: DUE TO PROXIMITY OF 6" D.I. FORCE MAIN AND EXIST. 8" SAN. SEWER FROM STA. 10± UPSTATION, AND ALSO DUE TO SUSPECTED GROUND WATER IN WHARF ROAD, DISTRICT MAY DEEM IT NECESSARY TO REPLACE CURVE DATA Δ=7° R=200 L=24.43 T=12.23 EXIST. 8" S.S. WHOLLY OR IN PART, UNDER THIS CONTRACT. CONTRACTOR SHALL HAVE ADDITIONAL 8" V.C.P. WYES AND 4" LATERALS READILY AVAILABLE, AND SHALL PROCEED WITH THE REPLACEMENT AT ENGINEER'S DIRECTION. EXTRA WORK WILL BE PAID FOR AT APPLICABLE CONTRACT PRICES.



INSTALL 8" D.I. PIPE FROM EXIST. MH TO DROP MH. BREAK INTO EXIST. MH AND FORM NEW CHANNEL IN BASE. SEE SHEET 17 FOR ELEVATIONS & DETAILS.



INSTALL TEL. POLE BOLLARDS, 8' LENGTHS WITH 3" ABOVE GRADE. PLACE AGAINST EXT. WALL, 4 1/2' O.C. MAX.



DES. L.S.	DRW. & REV.	NO.	DATE	BY	DESCRIPTION
CRD.	REV.				
DATE					
SCALE					
HORIZ. 1"=20'					
VERT. 1"=4'					

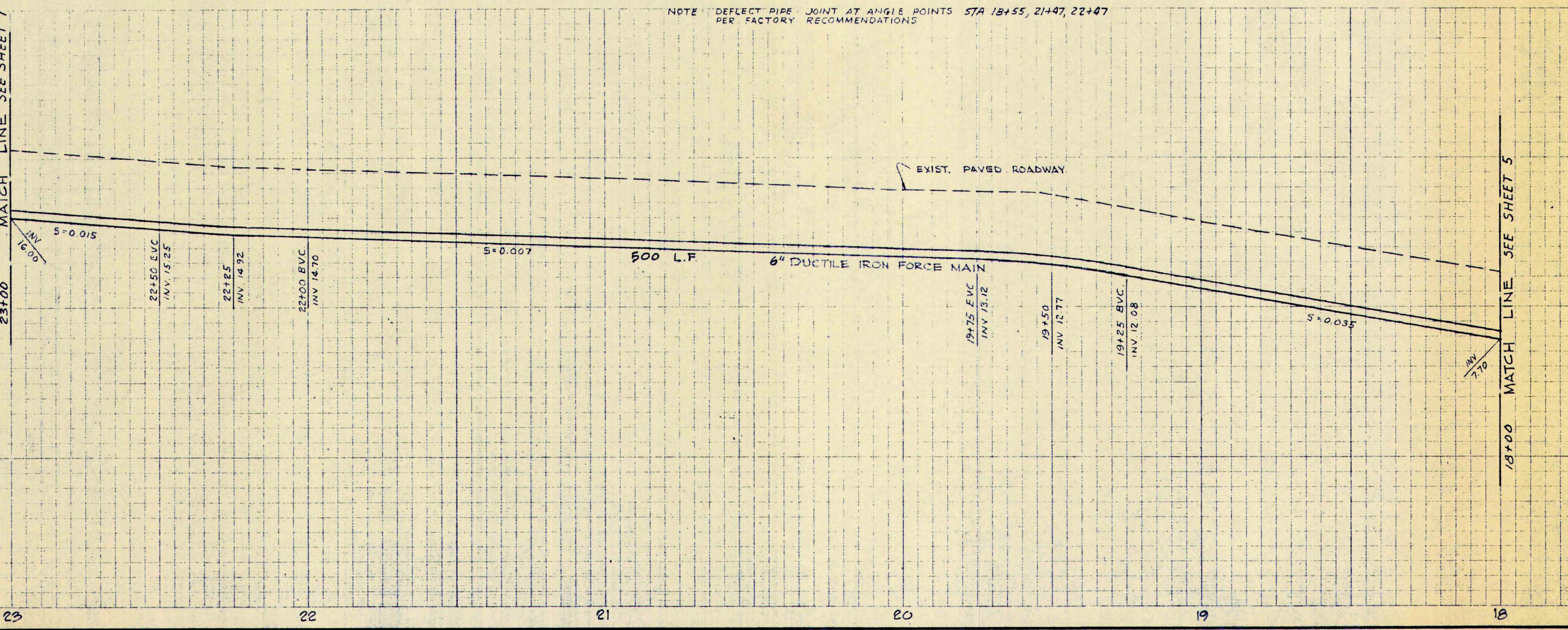
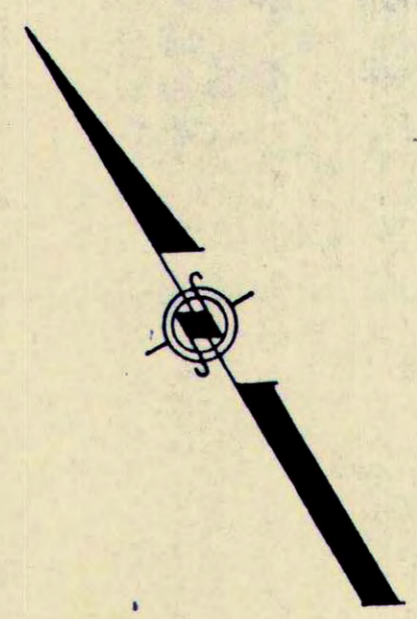
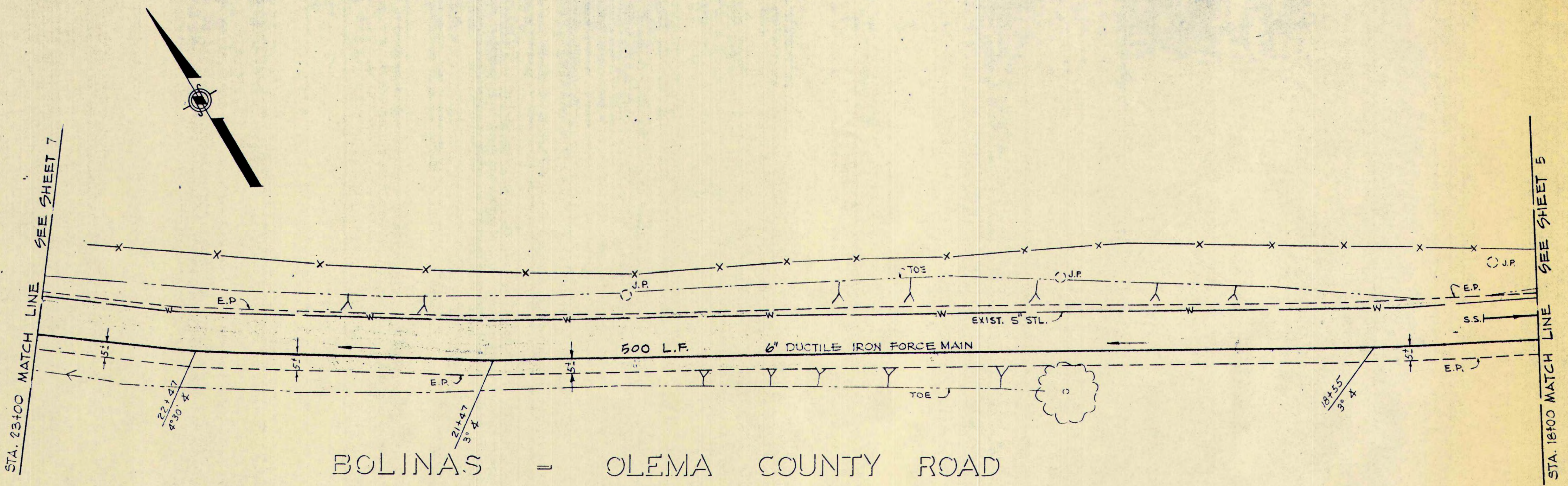
REVISIONS

KIRKER CHAPMAN & ASSOCIATES
 Consulting Civil Engineers • San Francisco, Calif. • Lead Office: 415-398-1200
 San Jose Office: 415-944-0710
 Santa Clara Office: 408-984-0710

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
 WASTEWATER TREATMENT AND DISPOSAL SYSTEM
 INTERCEPTOR SEWER & RAW SEWAGE FORCE MAIN
 PLAN & PROFILES
 STA. 7+25 TO STA. 15+00

JOB NO. 839
 SHEET 4 OF 20

A B C D E F G H J K



NOTE: DEFLECT PIPE JOINT AT ANGLE POINTS PER FACTORY RECOMMENDATIONS STA 18+55, 21+47, 22+47

KIRKER, CHAPMAN & ASSOCIATES
 Consulting Civil Engineers • Land Development Planners
 417 - 32-2244 • 417 - 381-1240
 408 - 984-6710

Drawn by: *[Signature]*
 Checked by: *[Signature]*
 E. MARK L. HARRIS, R.E., P.E.

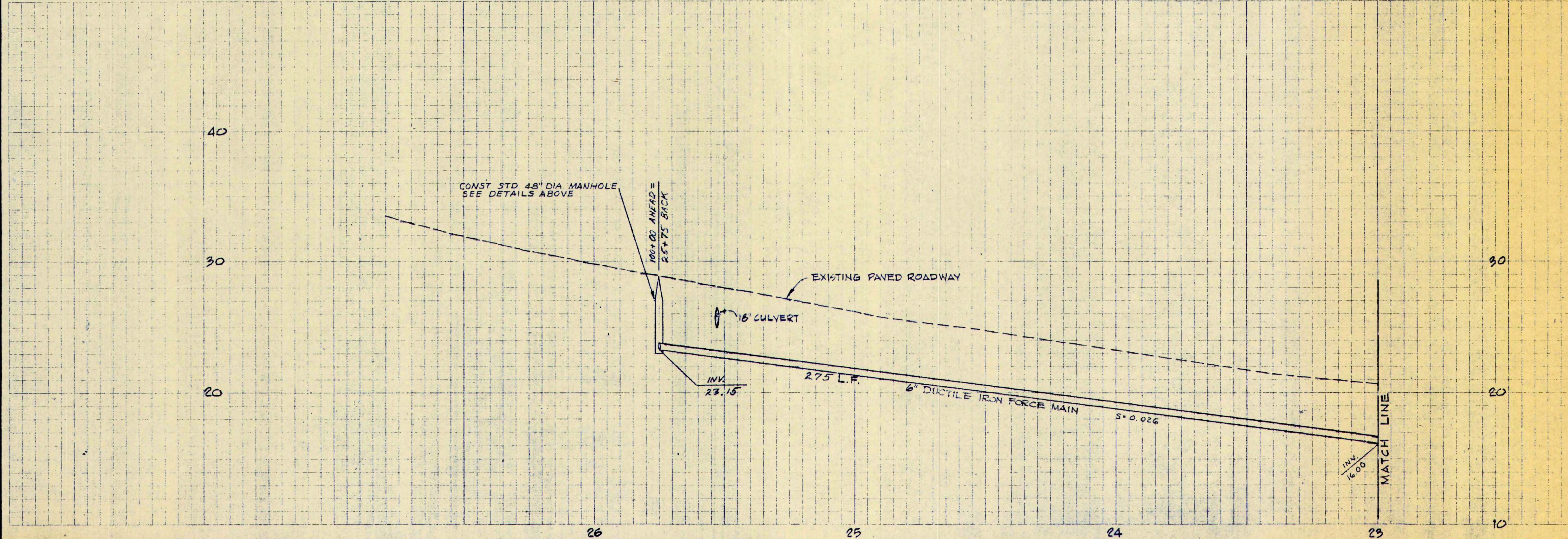
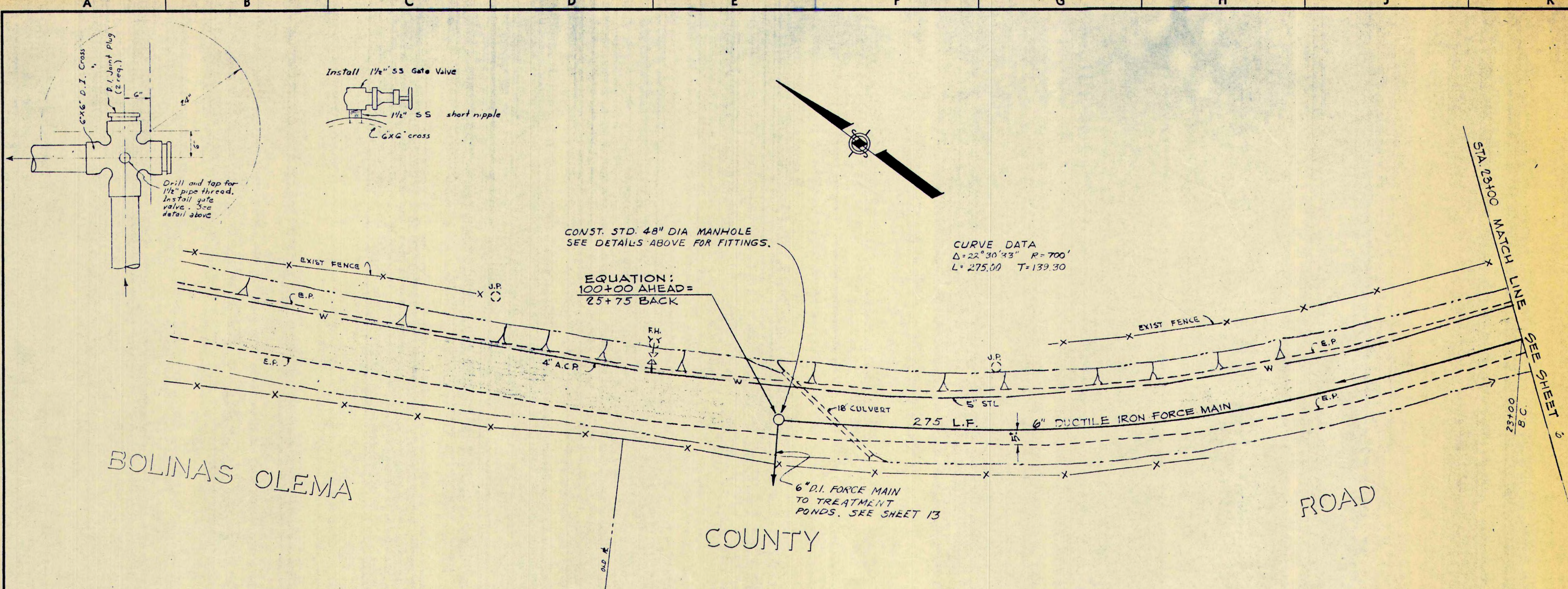
DATE: 1973
 SCALE: HORIZ. 1"=20'
 VERT. 1"=4'

NO.	DATE	BY	DESCRIPTION

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
 WASTEWATER TREATMENT AND DISPOSAL SYSTEM
 RAW SEWAGE FORCE MAIN
 PLAN & PROFILES
 STA. 18+00 TO STA. 23+00

KC

JOB NO. 839
 SHEET 6 OF 20

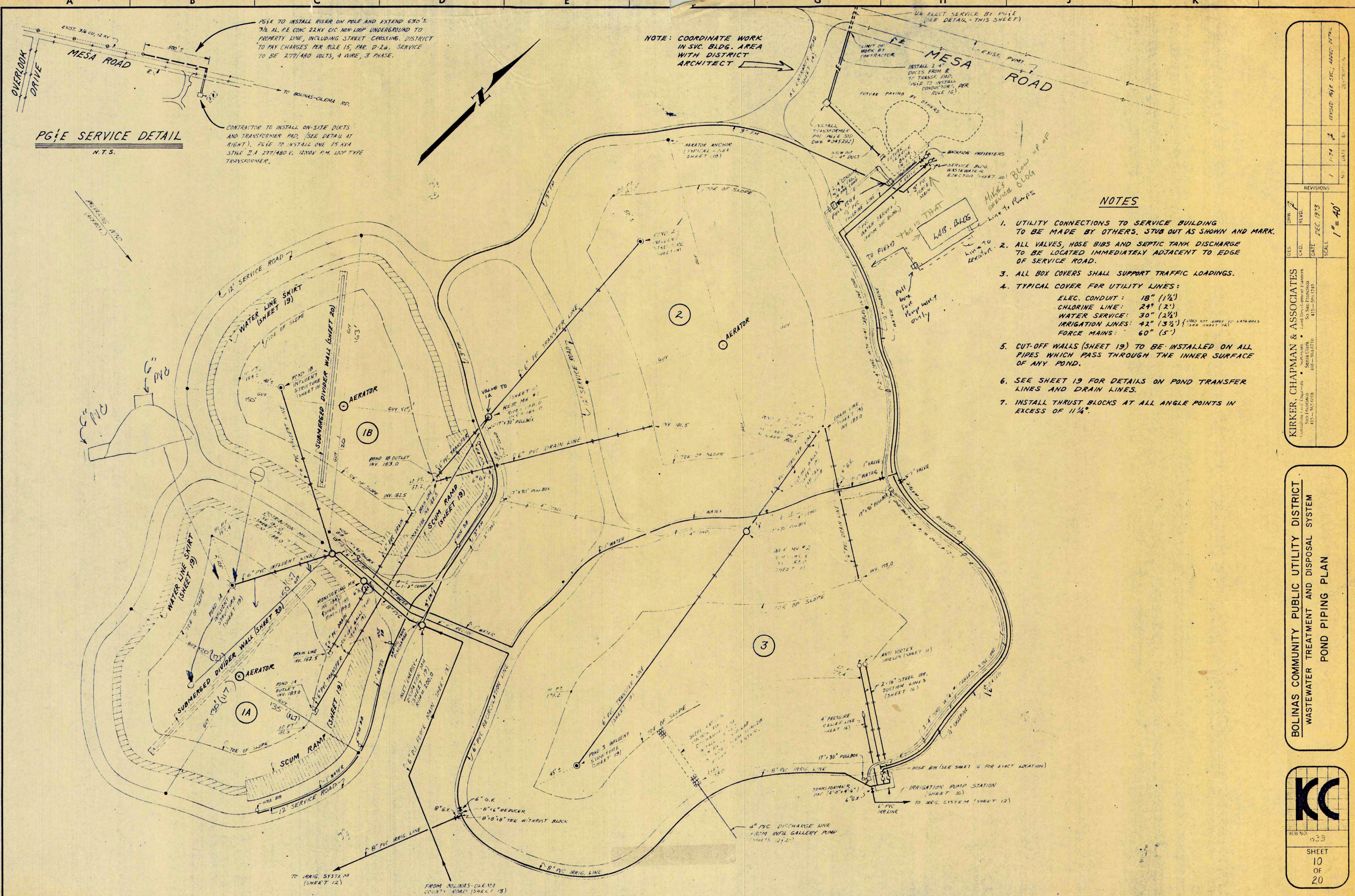


DES. I.L.S.		DRW. P.W. EV	REVISED P.M. ALIGNMENT	
NO.	DATE	BY	NO.	DATE
1	1/74	J	2	
REVISIONS				
DATE	BY	DESCRIPTION		
1973				
SCALE HORIZ. 1" = 20' VERT. 1" = 4'				
KIRKER, CHAPMAN & ASSOCIATES Consulting Civil Engineers Surveyors • Land Development Planners 417 - 32-2244 408 - 884-6710 911 - 367-2400				
EDWARD L. WEAVER, P.E. 5125				

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT AND DISPOSAL SYSTEM
RAW SEWAGE FORCE MAIN
PLAN & PROFILES
STA. 23+00 TO STA. 23+80

KC

JOB NO. 839
SHEET 7 OF 20



PG&E SERVICE DETAIL
N.T.S.

CONTRACTOR TO INSTALL ON-SITE DUCTS AND TRANSFORMER PAD. (SEE DETAIL AT RIGHT). PG&E TO INSTALL ONE 15 KVA STYLE 2-A 277/480 V. 1250V P.M. LOOP TYPE TRANSFORMER.

NOTE: COORDINATE WORK IN SVC. BLDG. AREA WITH DISTRICT ARCHITECT

NOTES

- UTILITY CONNECTIONS TO SERVICE BUILDING TO BE MADE BY OTHERS. STUB OUT AS SHOWN AND MARK.
- ALL VALVES, HOSE BIBS AND SEPTIC TANK DISCHARGE TO BE LOCATED IMMEDIATELY ADJACENT TO EDGE OF SERVICE ROAD.
- ALL BOX COVERS SHALL SUPPORT TRAFFIC LOADINGS.
- TYPICAL COVER FOR UTILITY LINES:
 ELEC. CONDUIT: 18" (1 1/2")
 CHLORINE LINE: 24" (2')
 WATER SERVICE: 30" (2 1/2")
 IRRIGATION LINES: 42" (3 1/2") (DOES NOT APPLY TO AGRICULTURAL FORCE MAINS: 60" (5'))
- CUT-OFF WALLS (SHEET 19) TO BE INSTALLED ON ALL PIPES WHICH PASS THROUGH THE INNER SURFACE OF ANY POND.
- SEE SHEET 19 FOR DETAILS ON POND TRANSFER LINES AND DRAIN LINES.
- INSTALL THRUST BLOCKS AT ALL ANGLE POINTS IN EXCESS OF 11 1/4°.

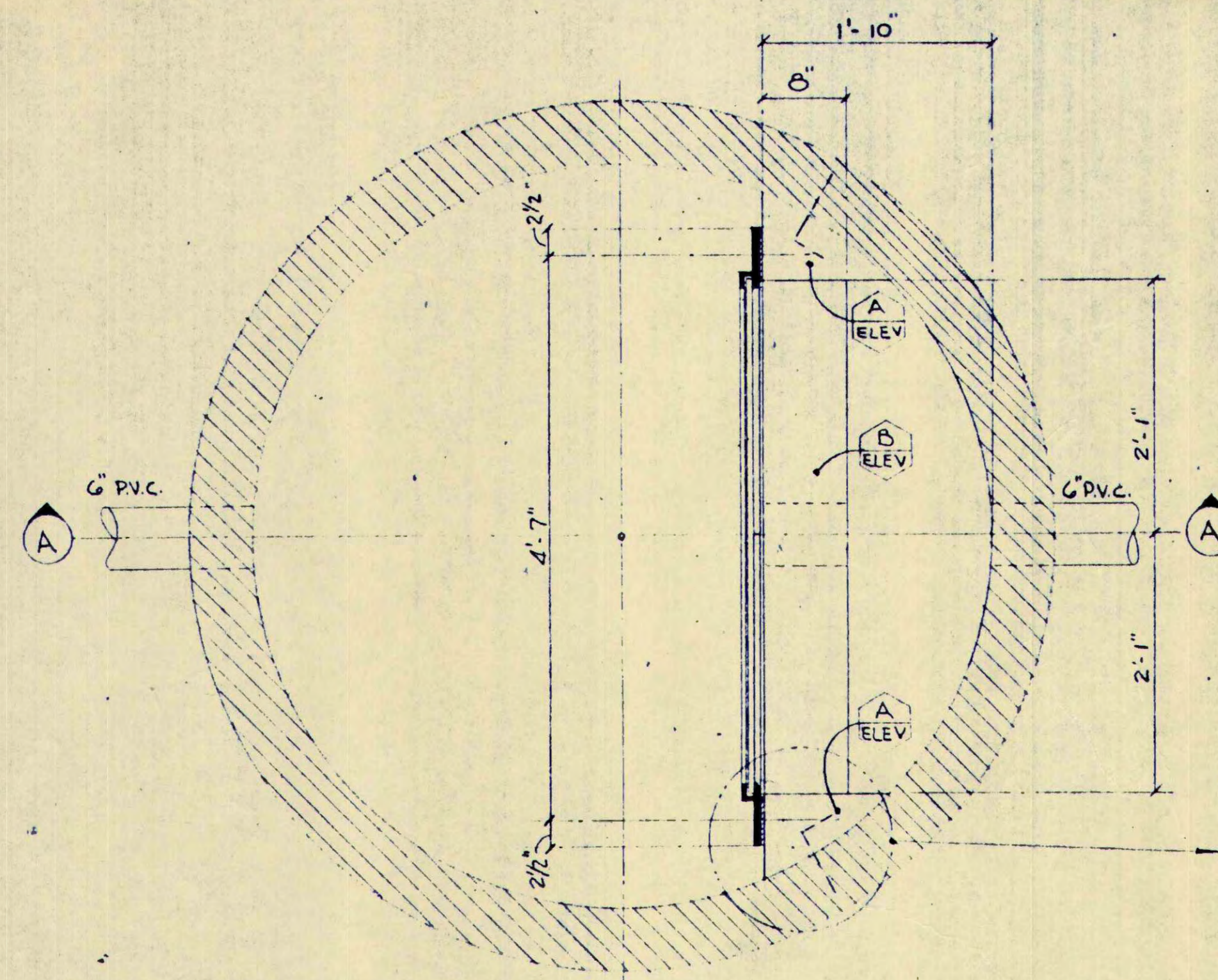
NO.	DATE	DESCRIPTION
1	1-74	REVISED 4014 SVC. ADDED 4014

DRW.	BLVD.	DATE	SCALE
DES.	DATE	SCALE	

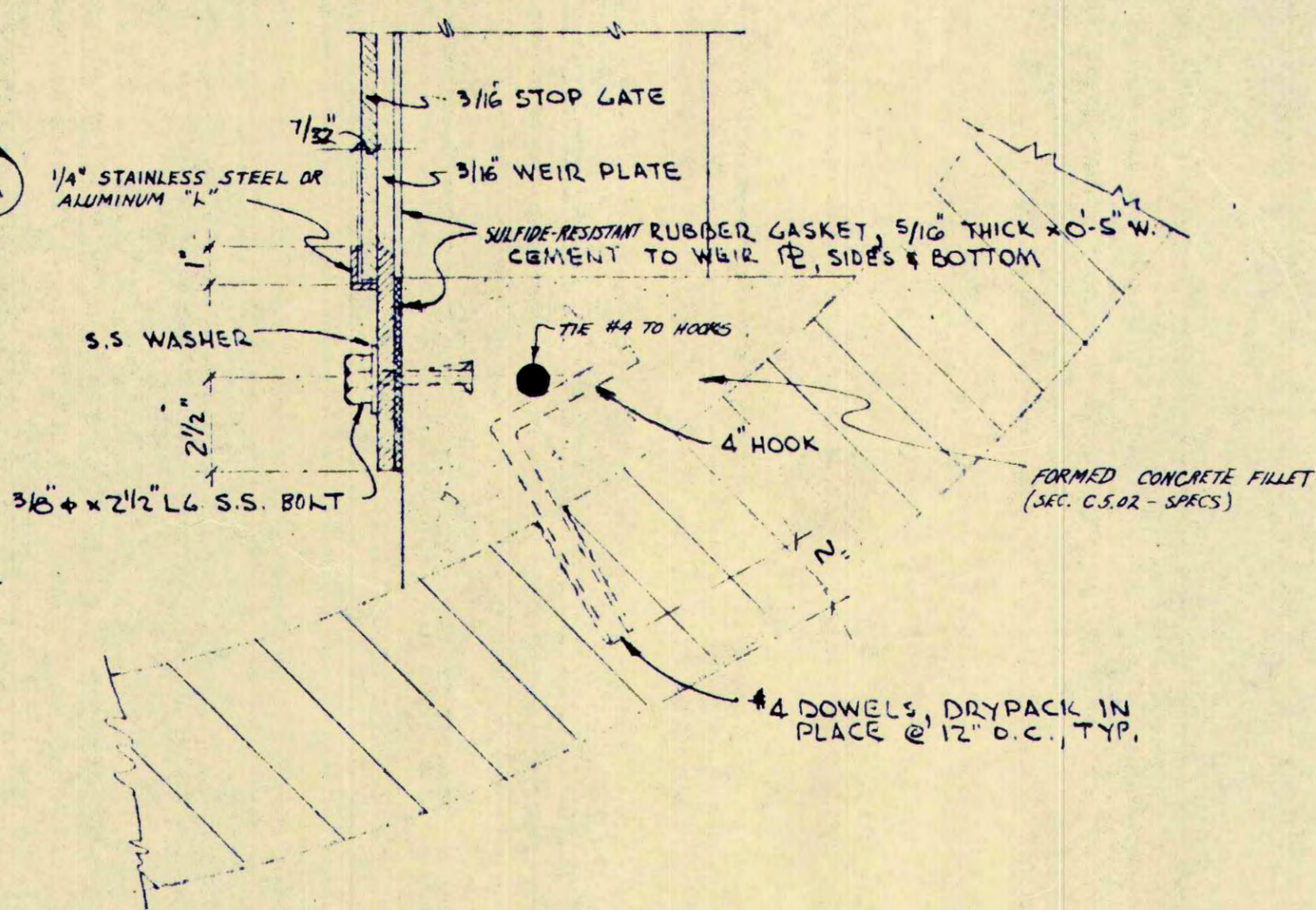
1" = 40'

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT AND DISPOSAL SYSTEM
POND PIPING PLAN

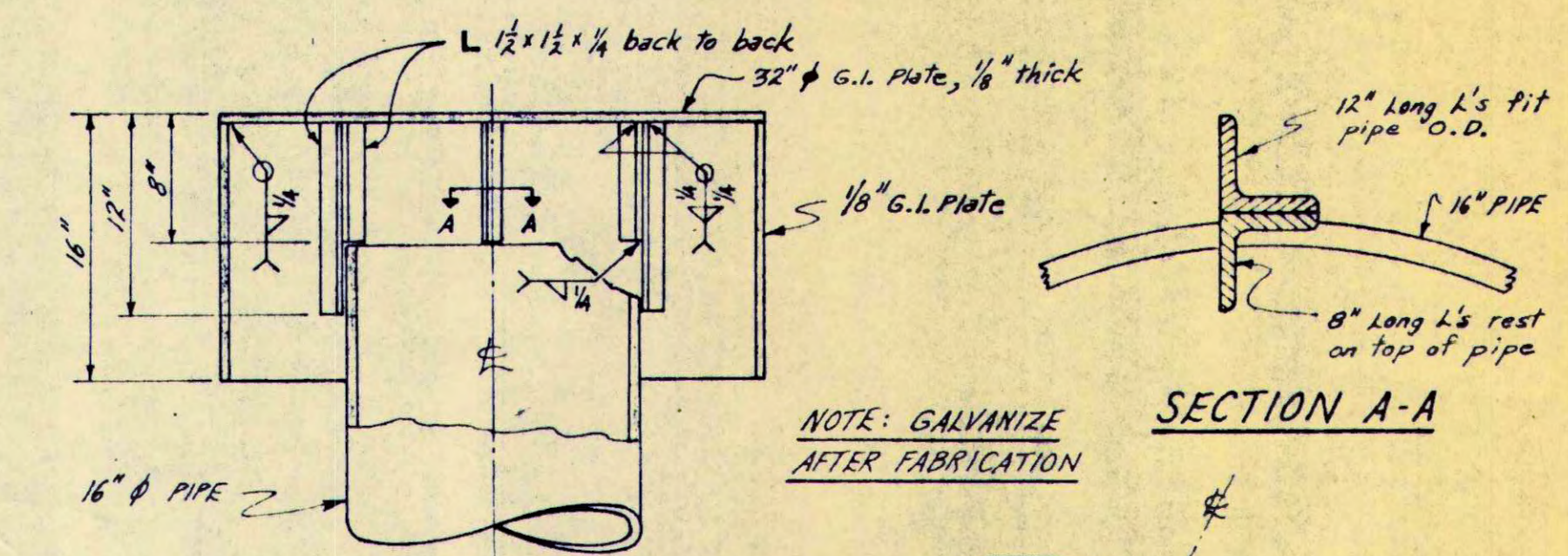
JCB NO. 039
SHEET 10 OF 20



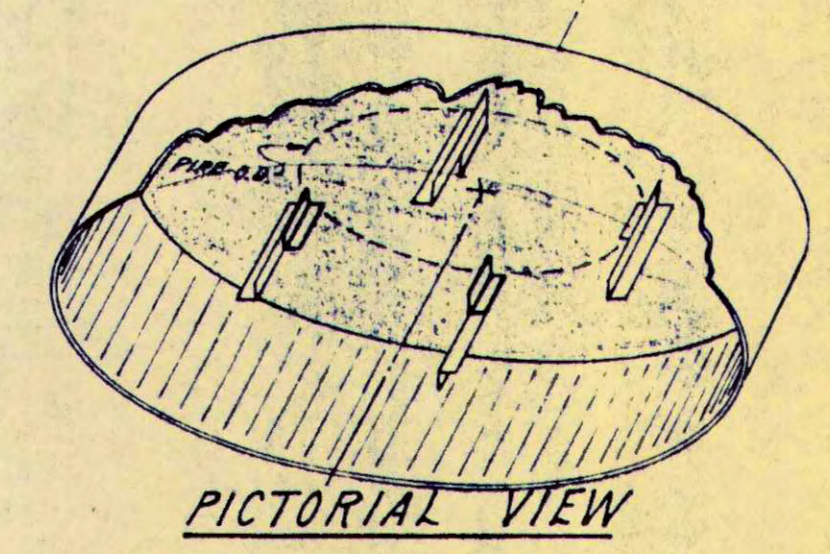
PLAN
WEIR MANHOLE
1" = 1'-0"



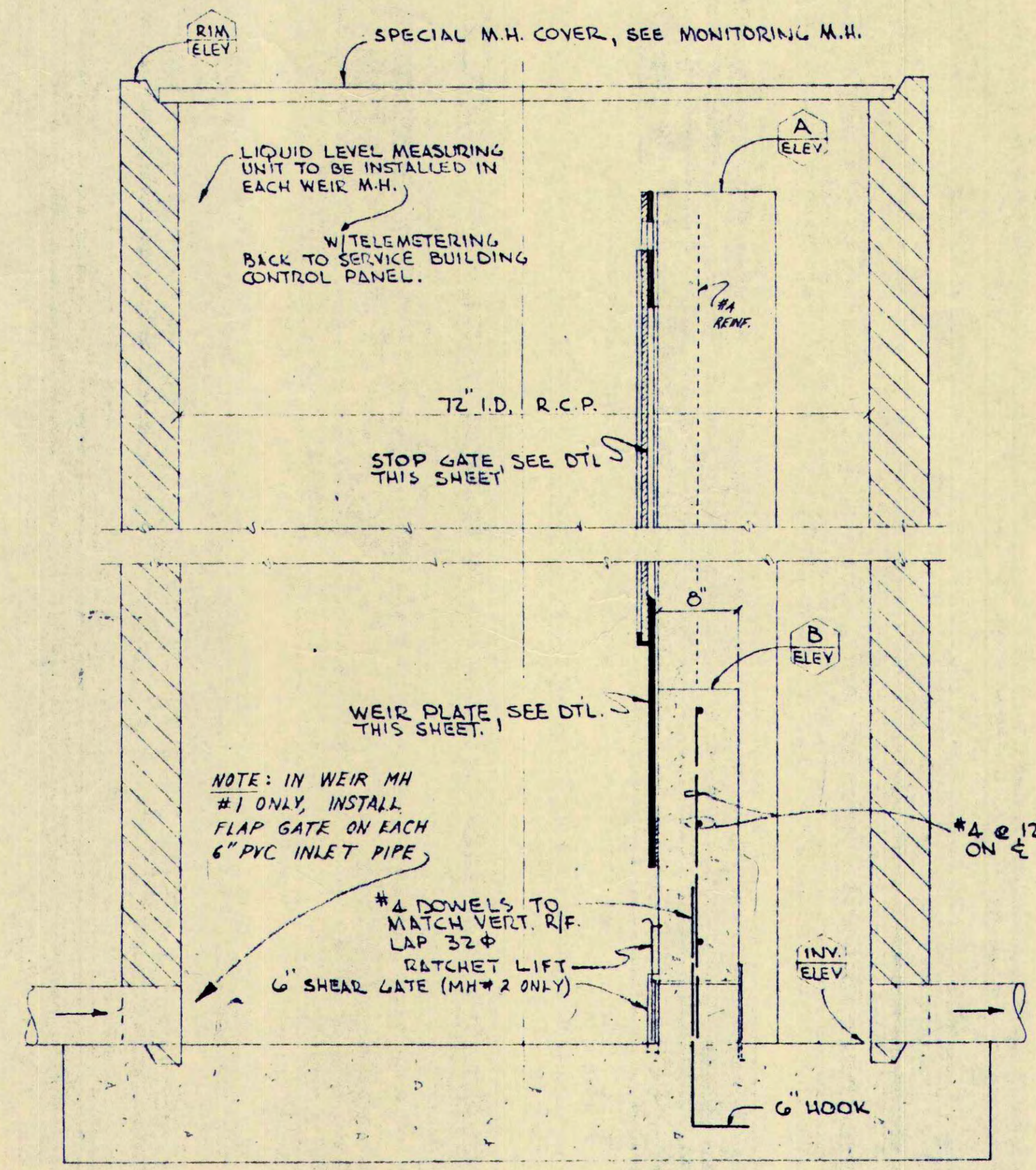
M.H.#	RIM ELEV	INV ELEV	A ELEV	B ELEV	C DIM	D DIM	E DIM	F DIM	G DIM
1	198.0'	186.0'	195.8'	188.8'	2'-0"	2'-4 29/32"	2'-3"	2'-2 7/16"	3'-0 1/2"
2	195.5'	183.0'	194.5'	187.5'	3'-0"	3'-7 3/16"	3'-3"	3'-2 7/16"	4'-2 7/16"



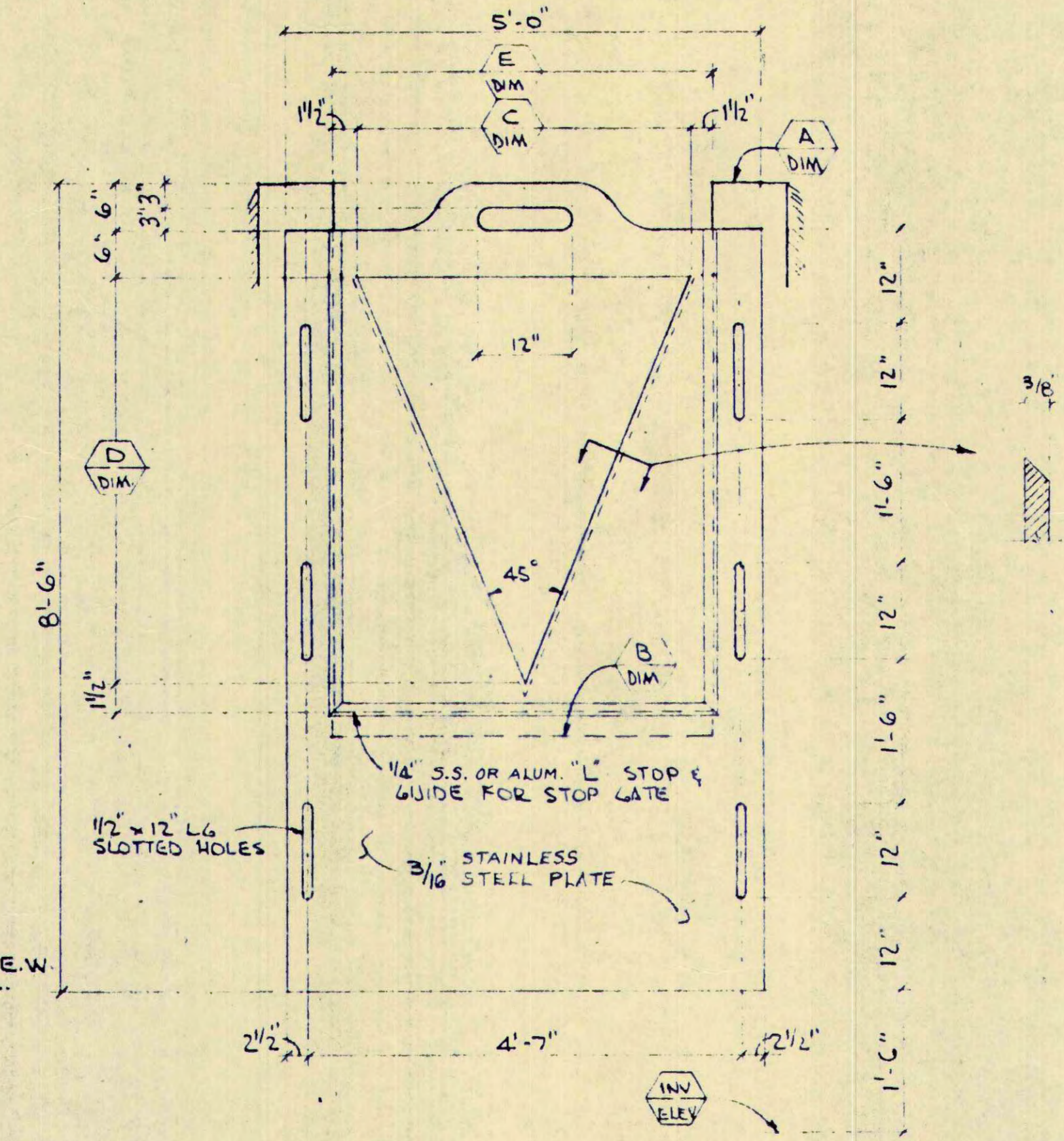
ANTIVORTEX SHIELD
N.T.S.



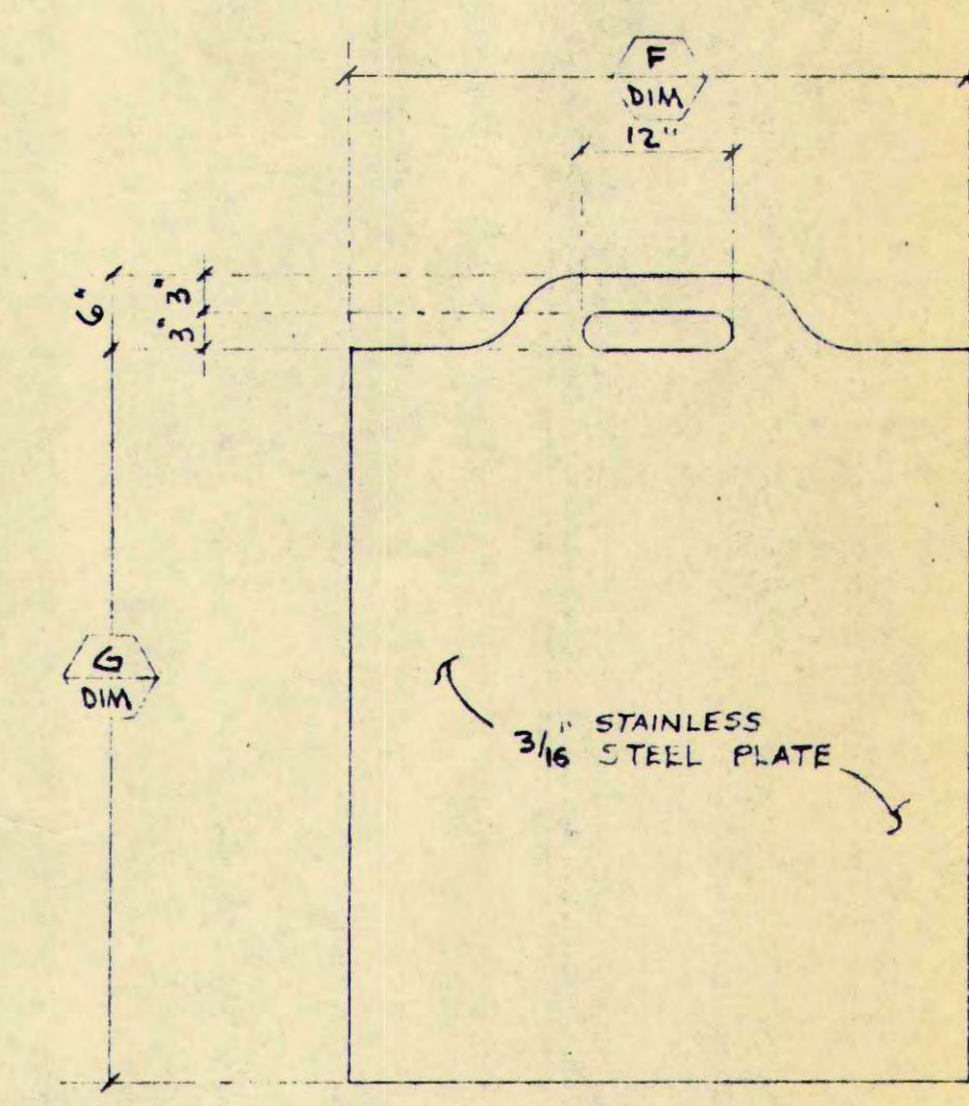
PICTORIAL VIEW



SECTION "A-A"
1" = 1'-0"



WEIR PLATE
N.S.



STOP GATE
N.S.

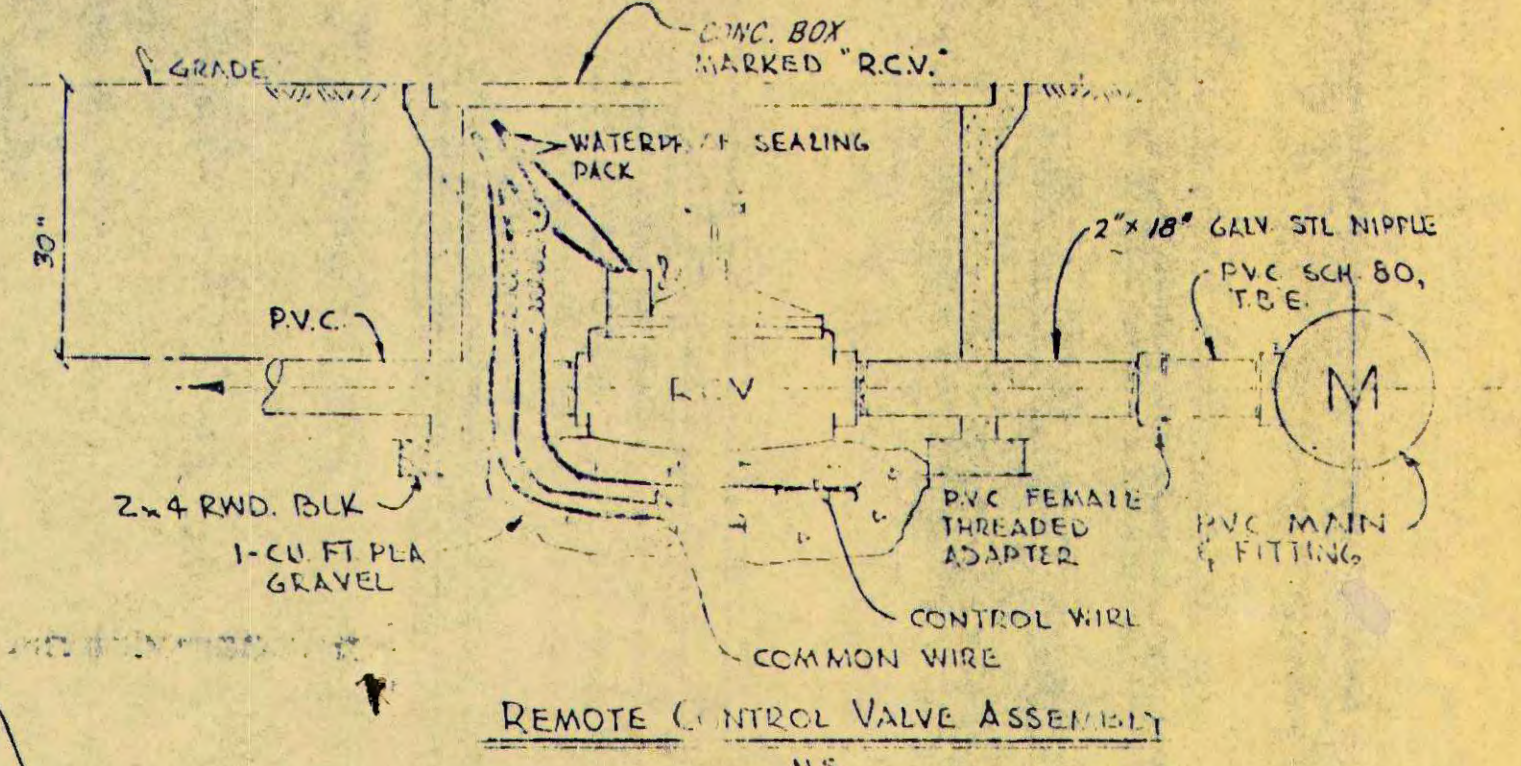
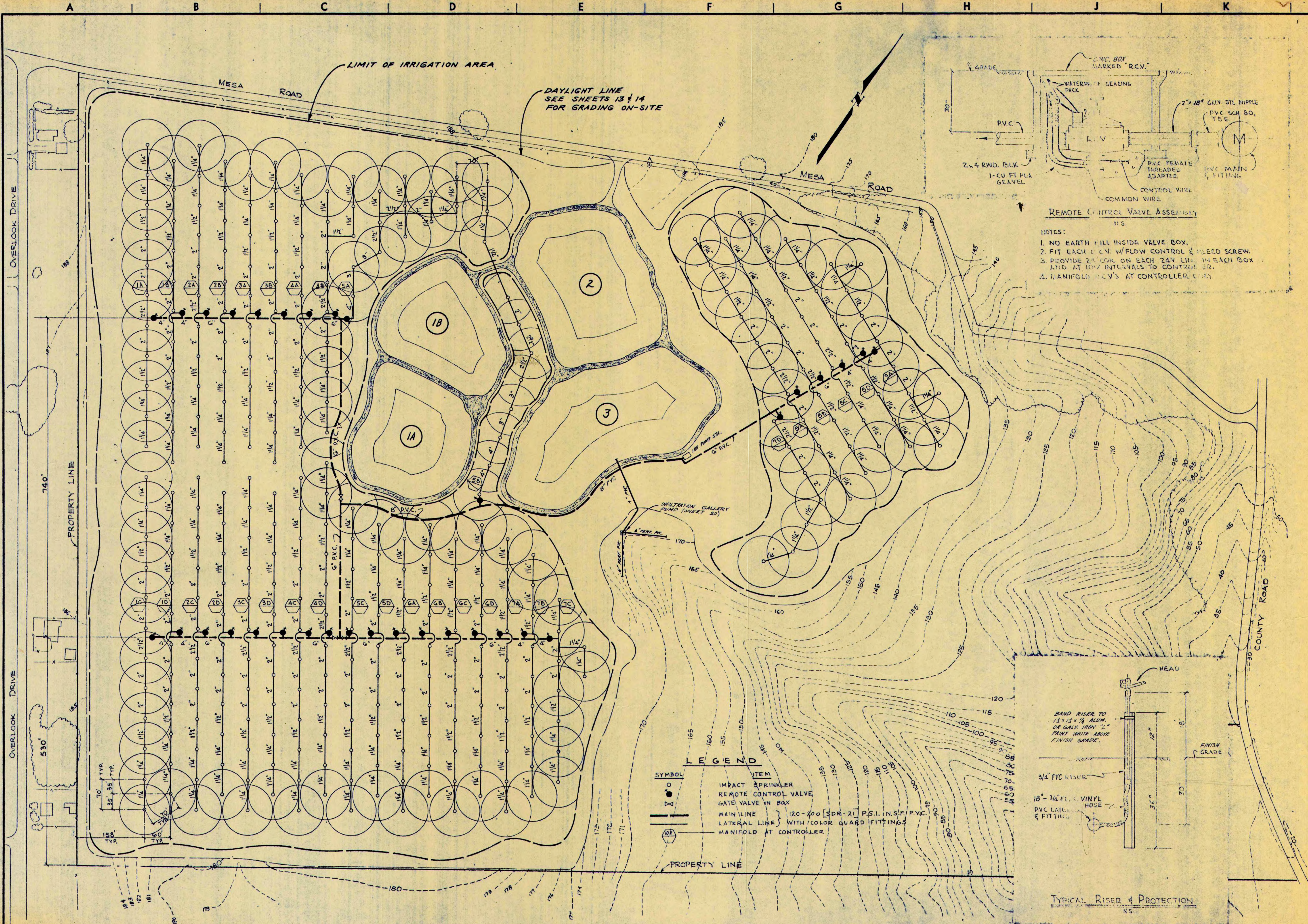
KIRKER, CHAPMAN & ASSOCIATES
Consulting Civil Engineers
408 - 944-6770
411 - 302-7244

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT AND DISPOSAL SYSTEM
TYPICAL WEIR MANHOLE DETAILS

KC
JOB NO. 839
SHEET 11 OF 20

DES. BY: []
CHK. BY: []
DATE: JULY 1973
SCALE: []
NOTED: []

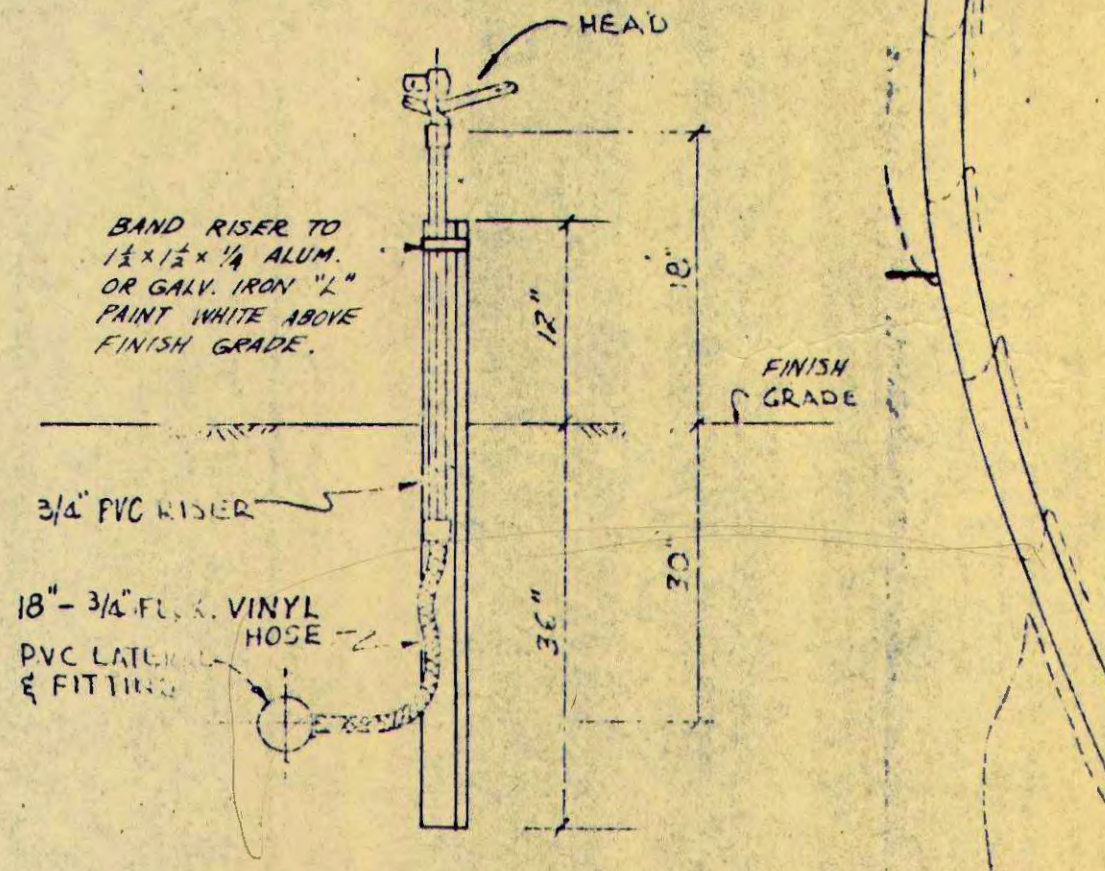
NO. DATE BY DESCRIPTION



- NOTES:**
1. NO EARTH FILL INSIDE VALVE BOX.
 2. FIT EACH R.C.V. W/ FLOW CONTROL & BLEED SCREW.
 3. PROVIDE 2x COIL ON EACH 24V LINE IN EACH BOX AND AT 100' INTERVALS TO CONTROLLER.
 4. MANIFOLD R.C.V.'S AT CONTROLLER ONLY.

LEGEND

SYMBOL	ITEM
○	IMPACT SPRINKLER
⊗	REMOTE CONTROL VALVE
⊕	GATE VALVE IN BOX
—	MAIN LINE } 12-20" [SDR-21] P.S.I. INS. PVC
- - -	LATERAL LINE } WITH / COLOR GUARD FITTINGS
⊕	MANIFOLD AT CONTROLLER



DES.	DRW.	NO.	DATE	BY	DESCRIPTION
CHD.	REVO.				
DATE					
REVISIONS					
1" = 100'					

KIRKER, CHAPMAN & ASSOCIATES
Consulting Civil Engineers • Surveyors • Land Development Planners
415 - 282-2244
408 - 984-2710
415 - 280-1240

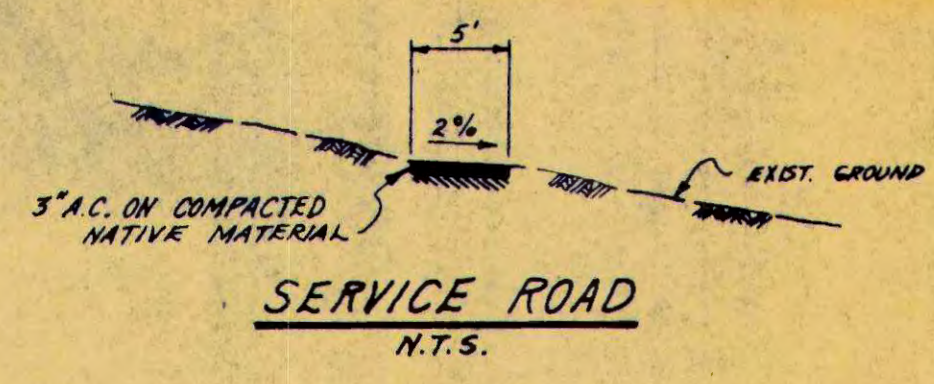
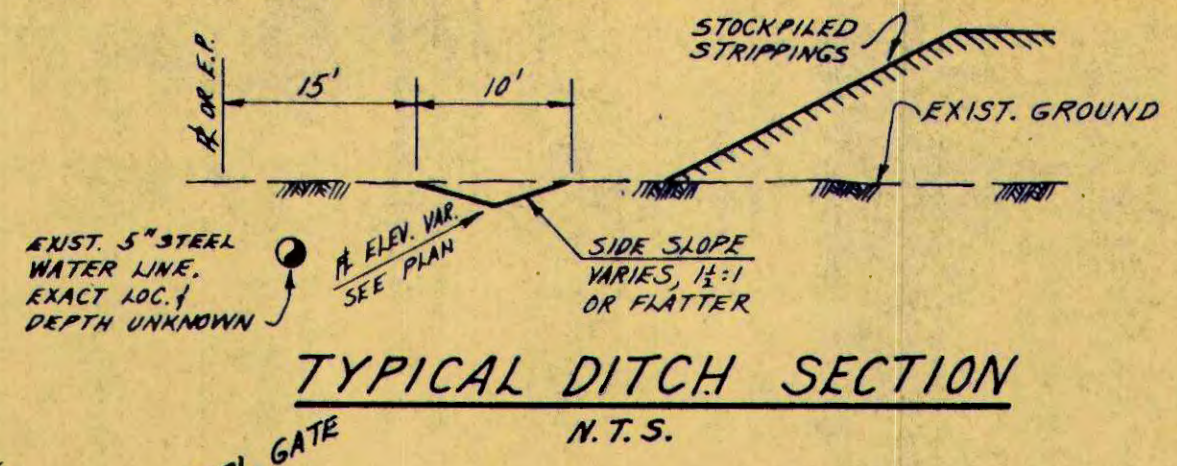
BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT AND DISPOSAL SYSTEM
IRRIGATION
PLAN & DETAILS

KC

JOB NO. _____

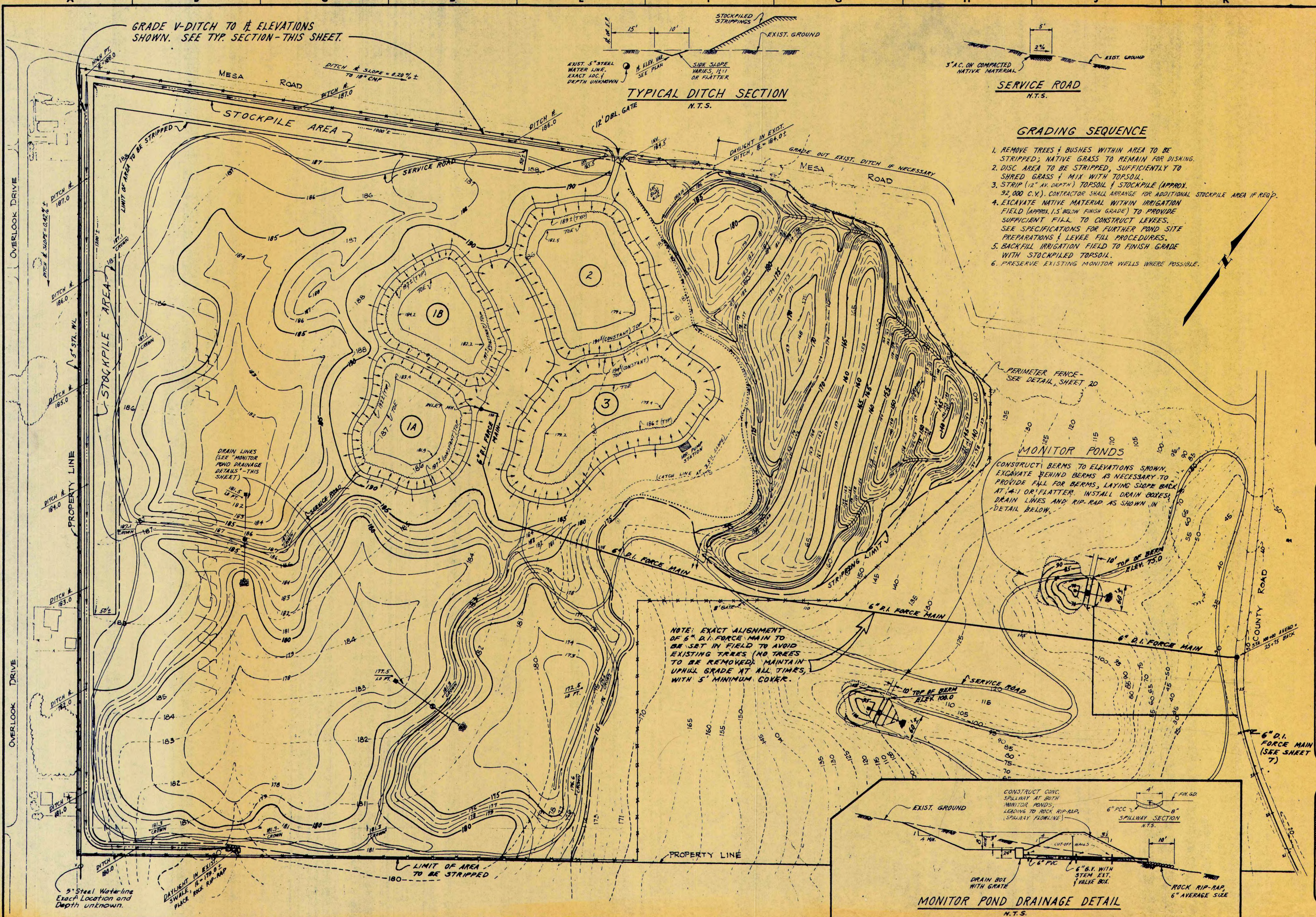
SHEET
12
OF
20

GRADE V-DITCH TO ELEVATIONS SHOWN. SEE TYP. SECTION - THIS SHEET.



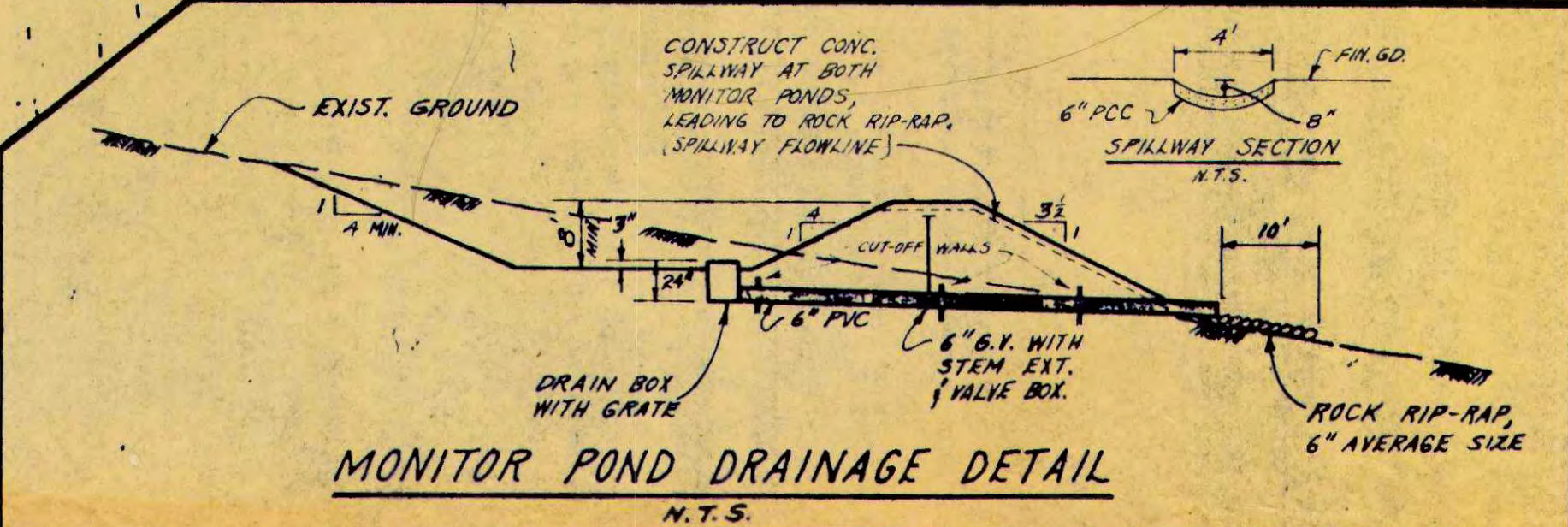
GRADING SEQUENCE

1. REMOVE TREES & BUSHES WITHIN AREA TO BE STRIPPED; NATIVE GRASS TO REMAIN FOR DISKING.
2. DISC AREA TO BE STRIPPED, SUFFICIENTLY TO SHRED GRASS & MIX WITH TOPSOIL.
3. STRIP (12" AV. DEPTH) TOPSOIL & STOCKPILE (APPROX. 32,000 C.Y.). CONTRACTOR SHALL ARRANGE FOR ADDITIONAL STOCKPILE AREA IF REQ'D.
4. EXCAVATE NATIVE MATERIAL WITHIN IRRIGATION FIELD (APPROX. 1.5' BELOW FINISH GRADE) TO PROVIDE SUFFICIENT FILL TO CONSTRUCT LEVEES. SEE SPECIFICATIONS FOR FURTHER POND SITE PREPARATIONS & LEVEE FILL PROCEDURES.
5. BACKFILL IRRIGATION FIELD TO FINISH GRADE WITH STOCKPILED TOPSOIL.
6. PRESERVE EXISTING MONITOR WELLS WHERE POSSIBLE.



MONITOR PONDS
CONSTRUCT BERMS TO ELEVATIONS SHOWN. EXCAVATE BEHIND BERMS AS NECESSARY TO PROVIDE FALL FOR BERMS, LAYING SLOPE BACK AT 4:1 OR FLATTER. INSTALL DRAIN BOXES, DRAIN LINES AND RIP-RAP AS SHOWN IN DETAIL BELOW.

NOTE: EXACT ALIGNMENT OF 6" D.I. FORCE MAIN TO BE SET IN FIELD TO AVOID EXISTING TREES (NO TREES TO BE REMOVED). MAINTAIN UPHILL GRADE AT ALL TIMES, WITH 5' MINIMUM COVER.



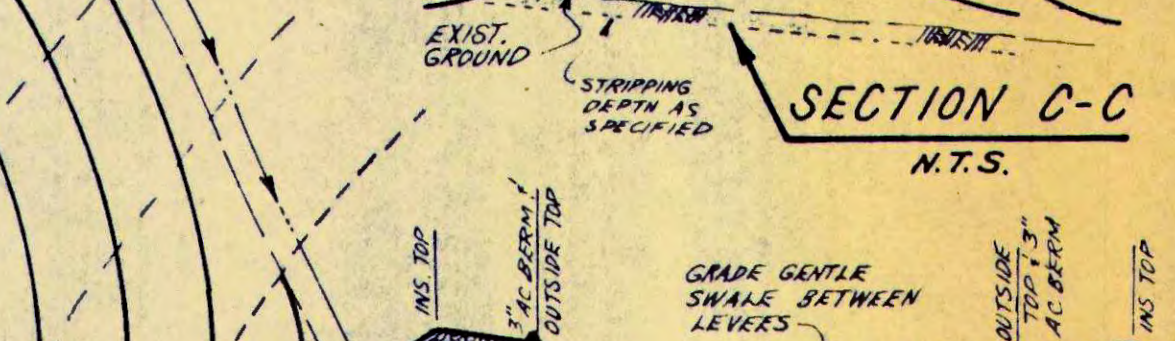
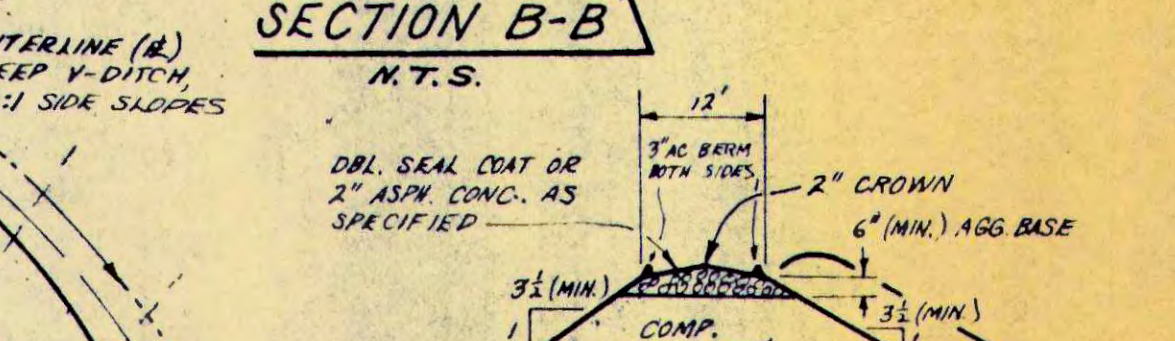
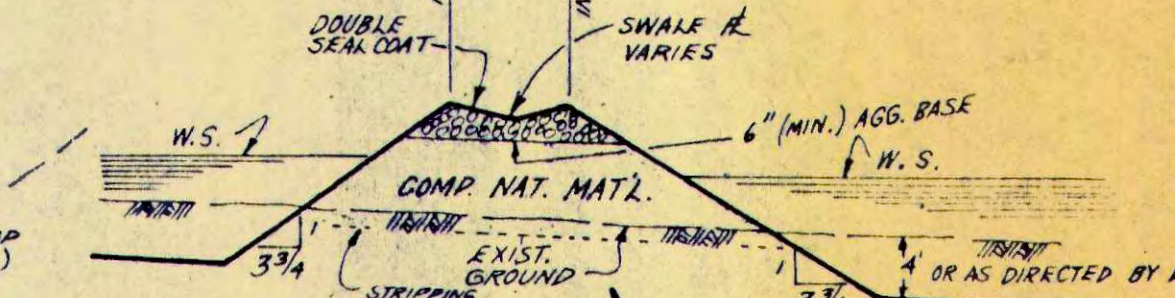
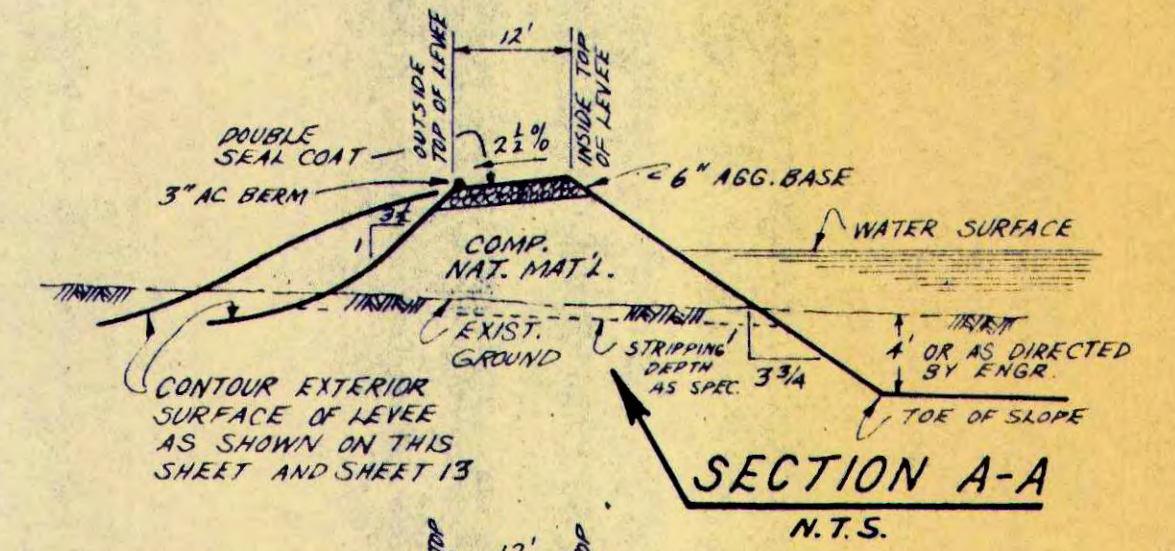
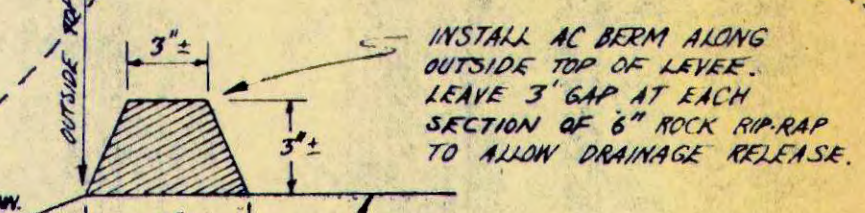
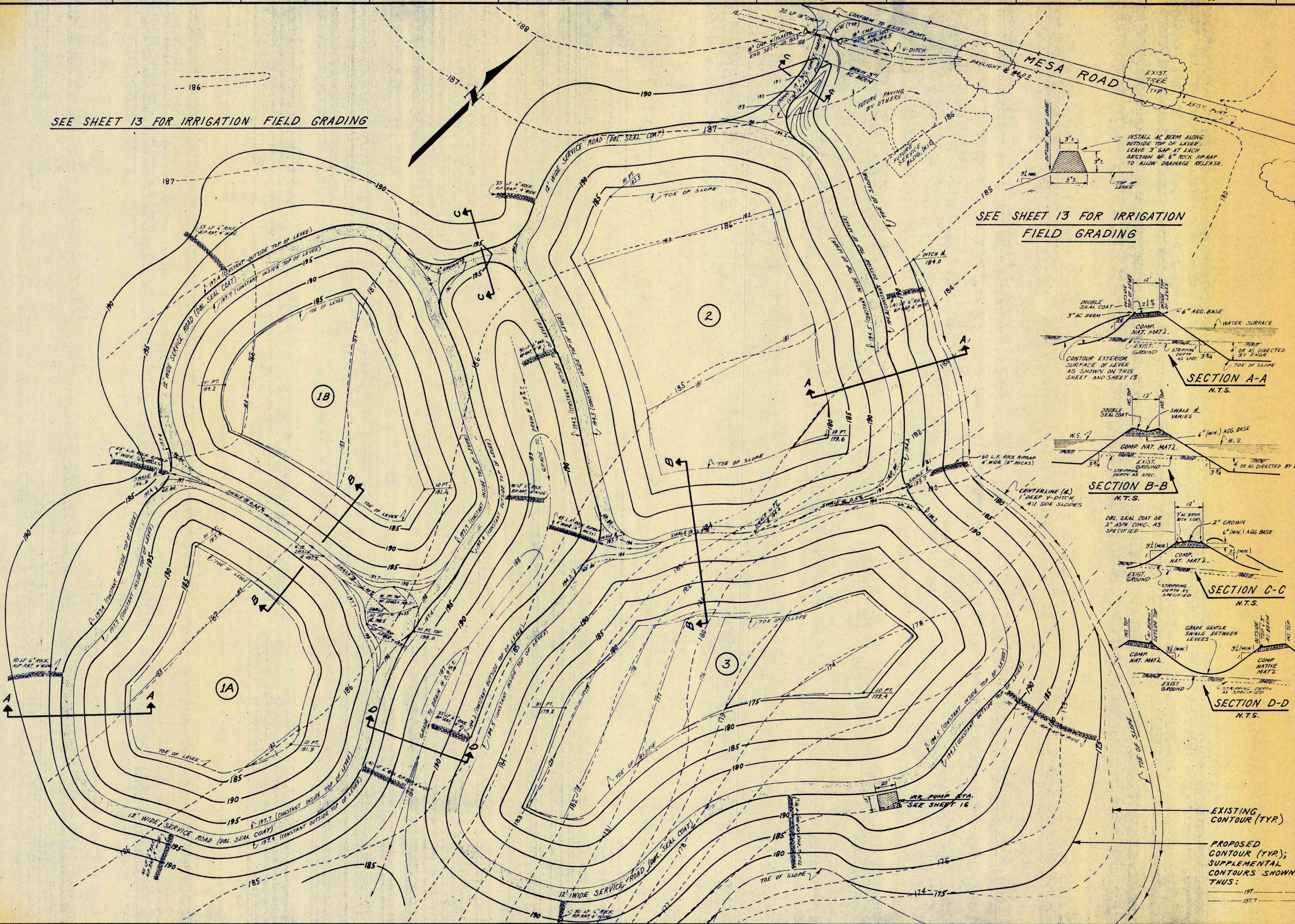
KIRKER, CHAPMAN & ASSOCIATES Civil Engineers & Surveyors 5000 S. Main Street, Suite 200 Salt Lake City, Utah 84143 408-864-8710		DES. ELS. J.C. C.A.D. J.C. DATE 10-2-19	REVISED POND LAYOUT, AND S.D. WORKING & P.M. ALIGNMENT DELETED POND 4 & 5 (E) EXPANDED IRRIGATION FIELD	NO. 1 DATE 10-17-19	BY
EDWARD L. SPIRA R.C.E. 19635					

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT AND DISPOSAL SYSTEM
POND GRADING PLAN

KC	JOB NO.	839
	SHEET	13
	OF	20

SEE SHEET 13 FOR IRRIGATION FIELD GRADING

SEE SHEET 13 FOR IRRIGATION FIELD GRADING



DES.	DRW.	REV.	DATE	SCALE
KIRKER, CHAPMAN & ASSOCIATES	A		DEC. 1973	1" = 40'
REVISIONS				
NO.	DATE	BY	DESCRIPTION	

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT AND DISPOSAL SYSTEM
POND GRADING PLAN

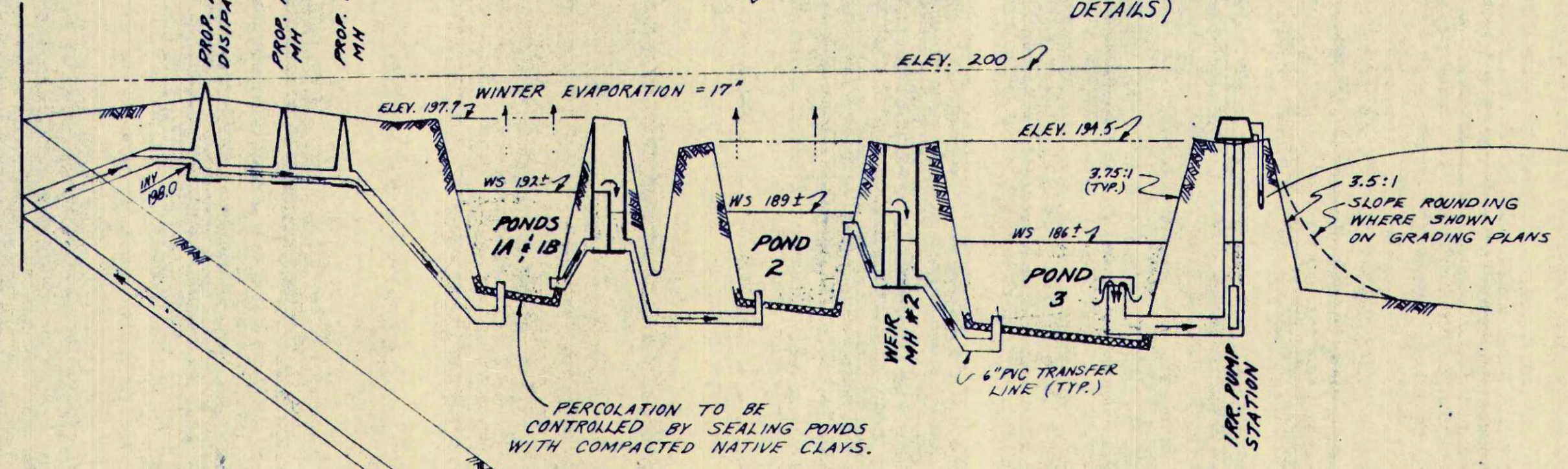
JOB NO. 200
SHEET 14 OF 20

EXISTING CONTOUR (TYP.)
PROPOSED CONTOUR (TYP.); SUPPLEMENTAL CONTOURS SHOWN THUS:
197
197.7

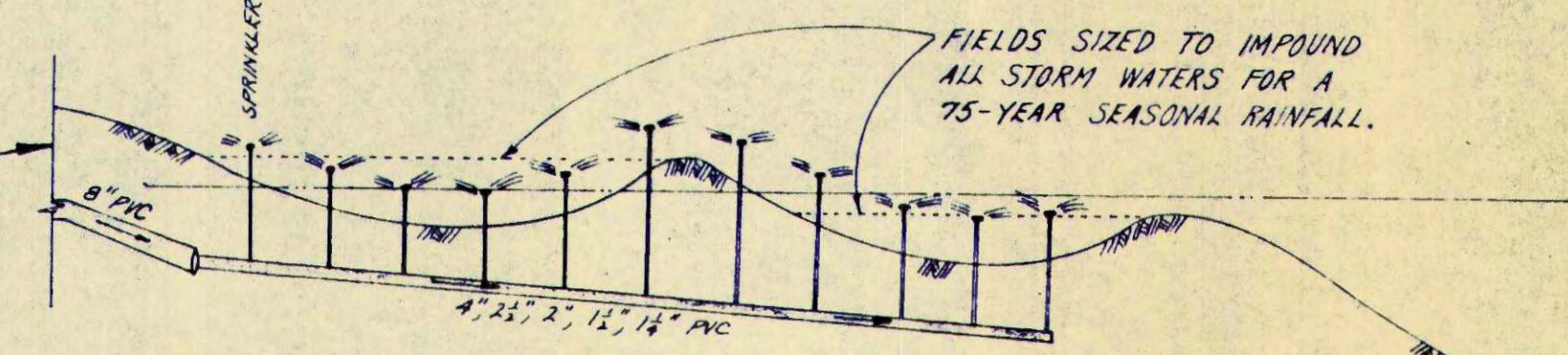
FLOW DIAGRAM
SCHEMATIC ONLY
NOT TO SCALE

STABILIZATION-DISPOSAL PONDS

(SHEETS 10 & 1A)
 PONDS DESIGNED FOR TERMINAL TREATMENT OF EFFLUENT, AND DISPOSAL THROUGH SPRAY IRRIGATION/ EVAPORATION. (SEE "PROJECT REPORT AND FEASIBILITY STUDY", SECTION IV, FOR DETAILS)

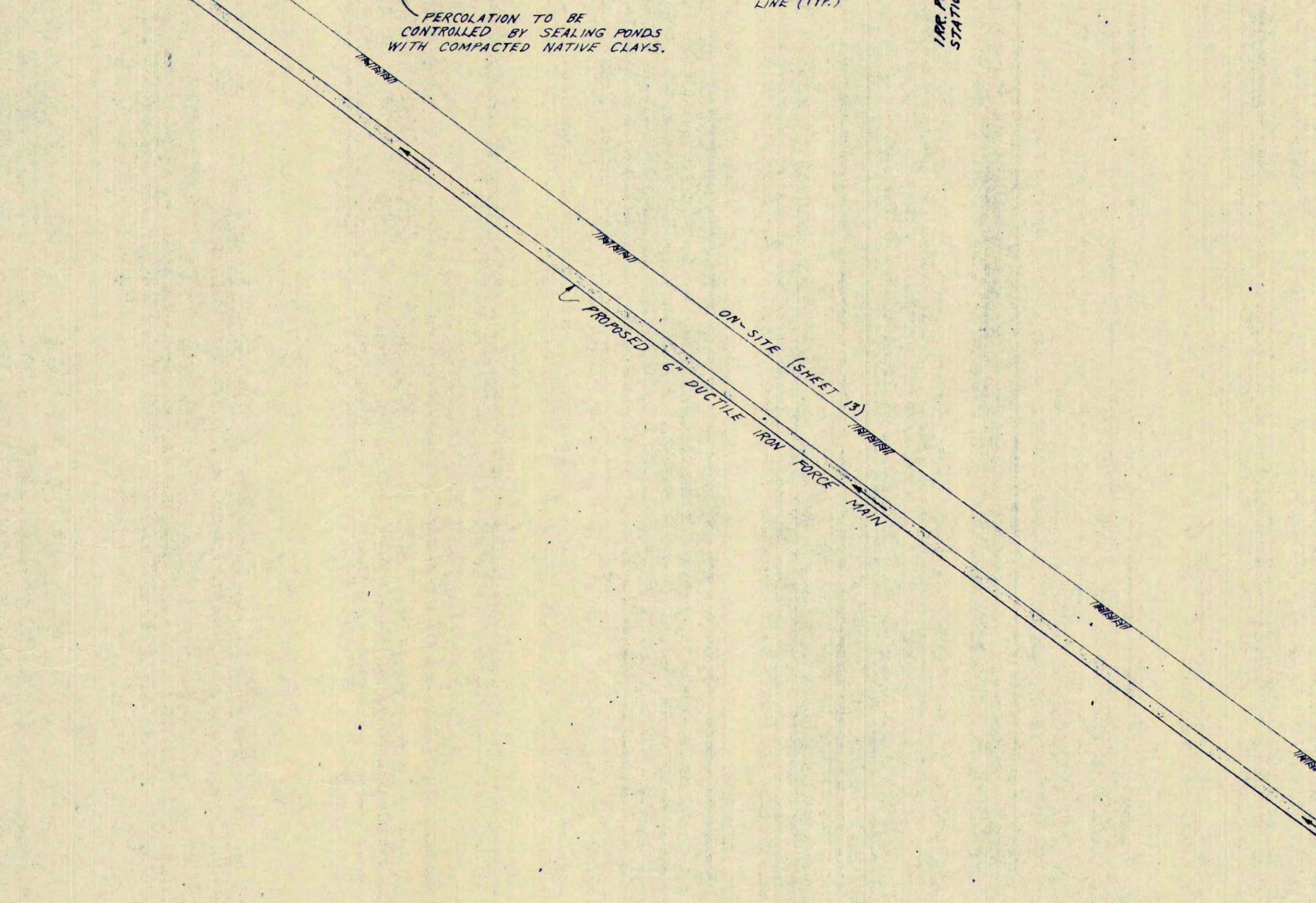


IRR PUMP STA DISCHARGE MAY ALSO BE RECIRCULATED THROUGH DIVERSION MH IF DESIRED.



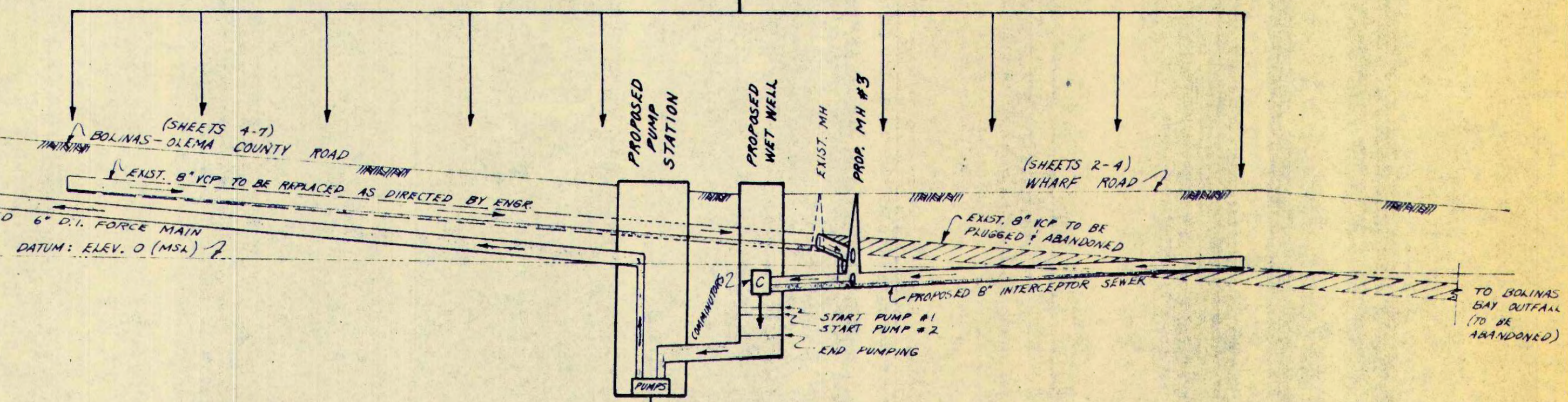
IRRIGATION FIELDS

EFFLUENT FROM TERMINAL POND TO BE USED DURING SUMMER TO IRRIGATE GROUND COVER AND/OR ANIMAL FORAGE CROPS. FIELDS TOTAL 47 ACRES, TO BE SPRAYED ON 9-DAY CYCLE OF 5+ ACRES PER DAY. MAXIMUM ANTICIPATED DISCHARGE RATE: 3" PER WEEK; APPROX. 70% EVAPORATION & TRANSPIRATION LOSSES. NET TO PERCOLATION: 1" PER WEEK (MAX.)



DESIGN

SINGLE-FAMILY RESIDENTIAL CONNECTIONS:	178 (161 EXIST.)
POPULATION @ 2.8/RESIDENCE:	500
PER CAPITA DOMESTIC SEWAGE:	80 GPCPD
COMMERCIAL AND INDUSTRIAL CONTRIBUTIONS:	NONE
AVERAGE DOMESTIC CONTRIBUTION:	0.01 MGD
AVERAGE WET WEATHER INFIL/INFLOW:	0.025 MGD
AVERAGE WET WEATHER FLOW:	0.065 MGD
PEAK WET WEATHER FLOW:	0.21 MGD



PUMP STATION
 REFER TO SHEETS 4 AND 17 FOR DETAILS

POND	POND DESIGN DATA							MAXIMUMS (2 FOOT FREEBOARD)					
	WATER SURFACE AREA SQ. FT.	ACRES	AV. DEPTH FT.	VOLUME MIL. GALS.	AC-FT.	W. S. ELEV.	FREEBOARD FT.	ELEV. TOP OF LEVEE	EFF. LENGTH FT.	WATER SURFACE AREA SQ. FT.	ACRES	VOLUME MIL. GALS.	AC-FT.
1A	51,500	1.18	10.0	2.6	8.0	192	4	196	200	57,100	1.31	3.8	11.8
1B	53,300	1.22	10.0	2.8	8.5	192	4	196	205	56,700	1.30	3.7	11.3
2	64,000	1.47	7.6	2.8	8.7	189	5.5	196	295	85,500	1.96	5.7	17.3
3	59,700	1.37	10.0	3.2	9.7	186	8.5	196	275	99,400	2.28	7.8	23.9
TOTALS	228,500[±]	5.24 AC.		11.4 MG	34.9 AC-FT.					298,700[±]	6.85 AC.	21.0 MG	64.3 AC-FT.

KIRKER, CHAPMAN & ASSOCIATES
 Consulting Civil Engineers
 415-382-1018
 408-884-8710

DES: FLS
 CHD: [blank]
 DATE: AUG 1973
 SCALE: NONE

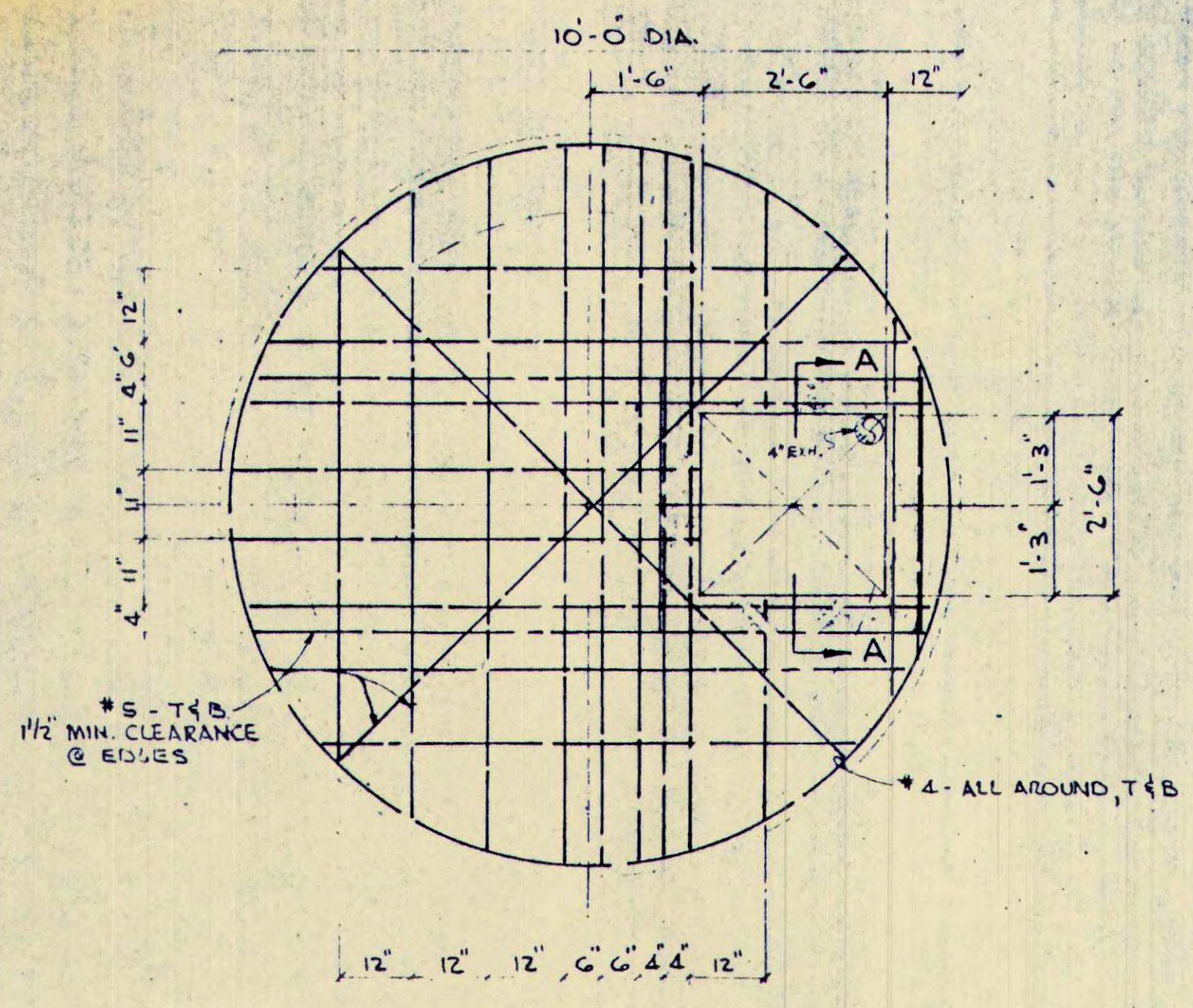
REVISIONS

NO.	DATE	BY	DESCRIPTION
1	12-17-73	JL	DELETED PWDOS 4.514; EXPANDED IRR FIELDS

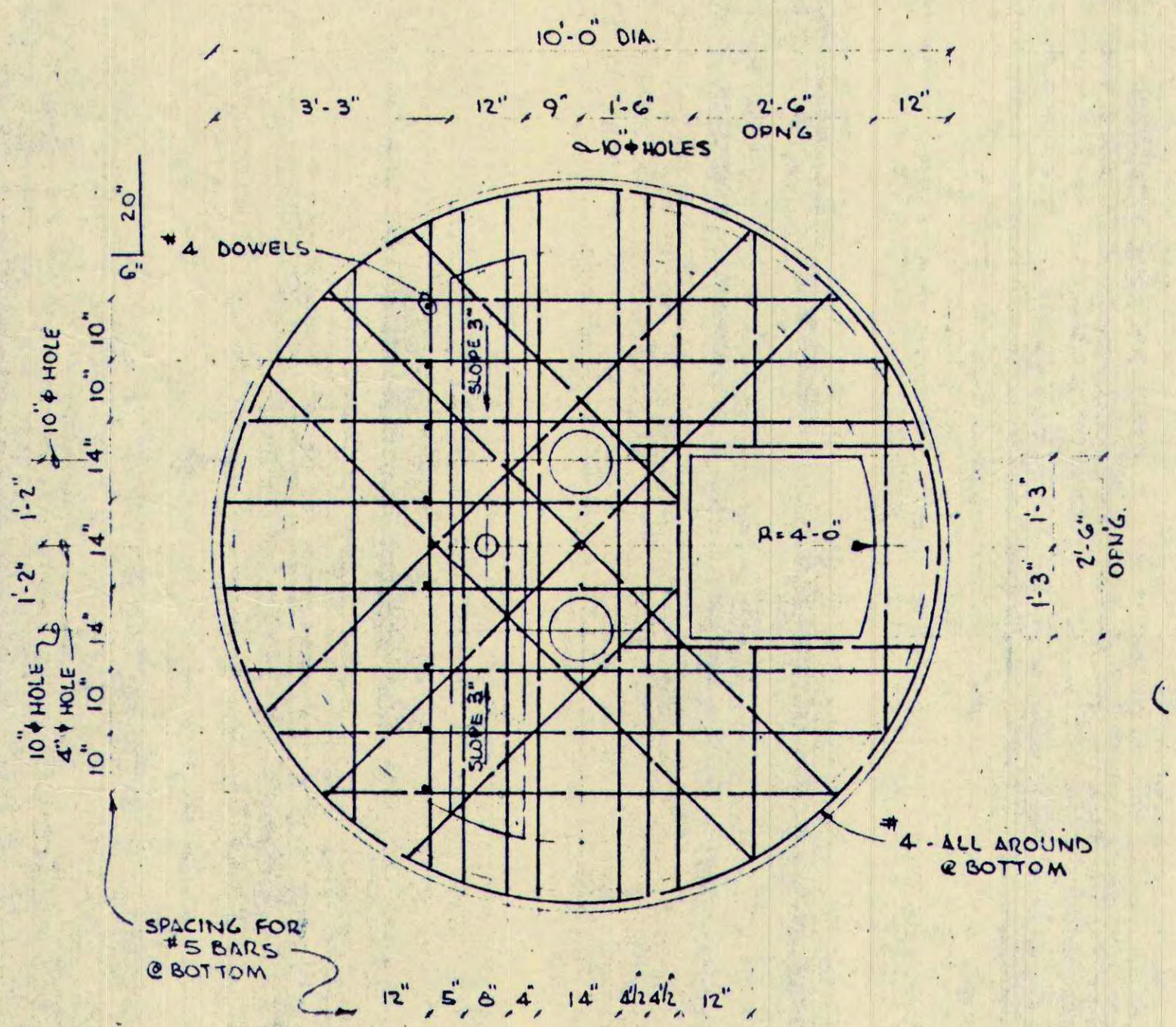
BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT AND DISPOSAL SYSTEM
FLOW DIAGRAM

KC

JOB NO: 859
 SHEET 15 OF 20



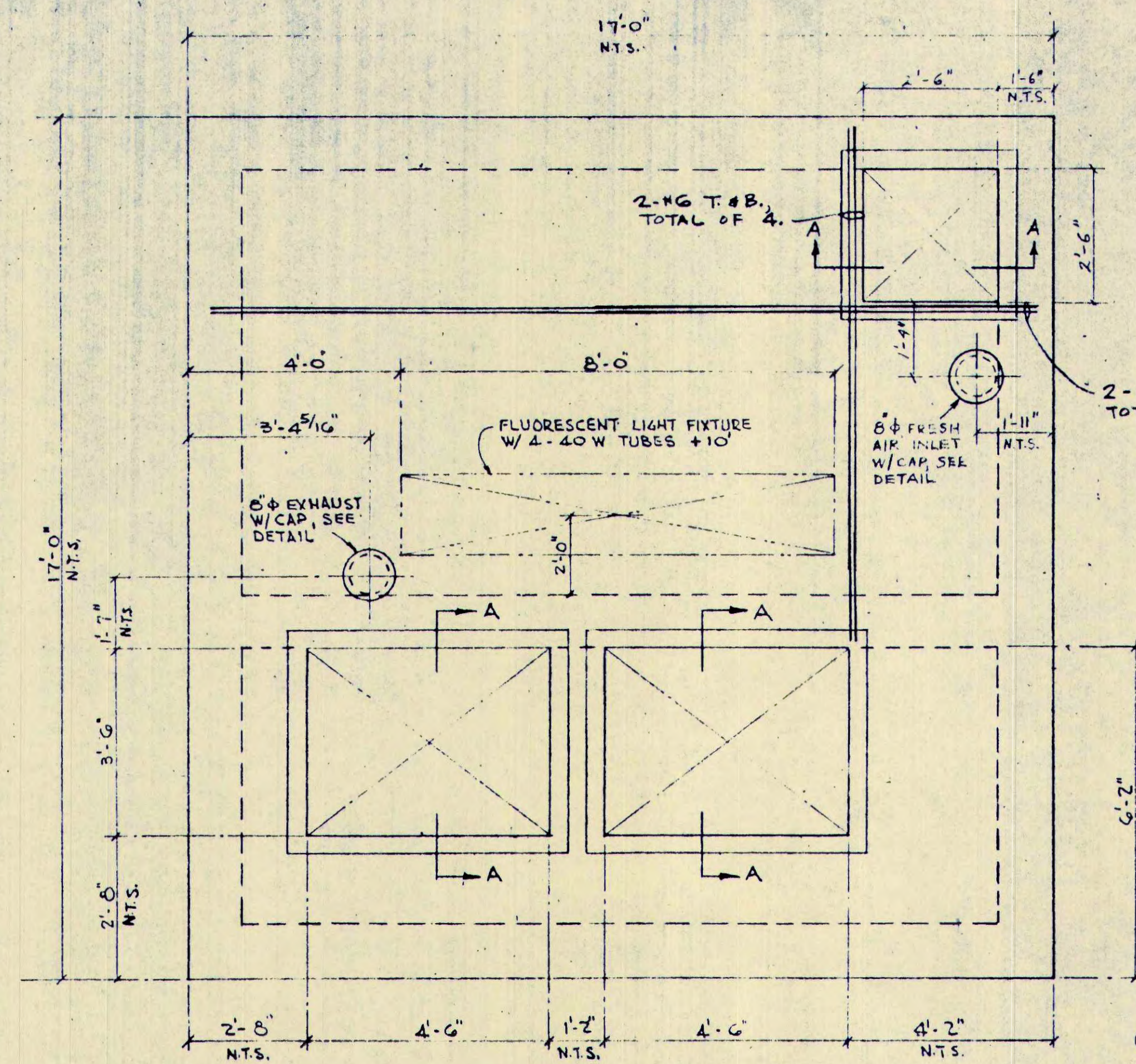
WET-WELL COVER
(12" THICK PRECAST CONC.)
1/2" = 1'-0"



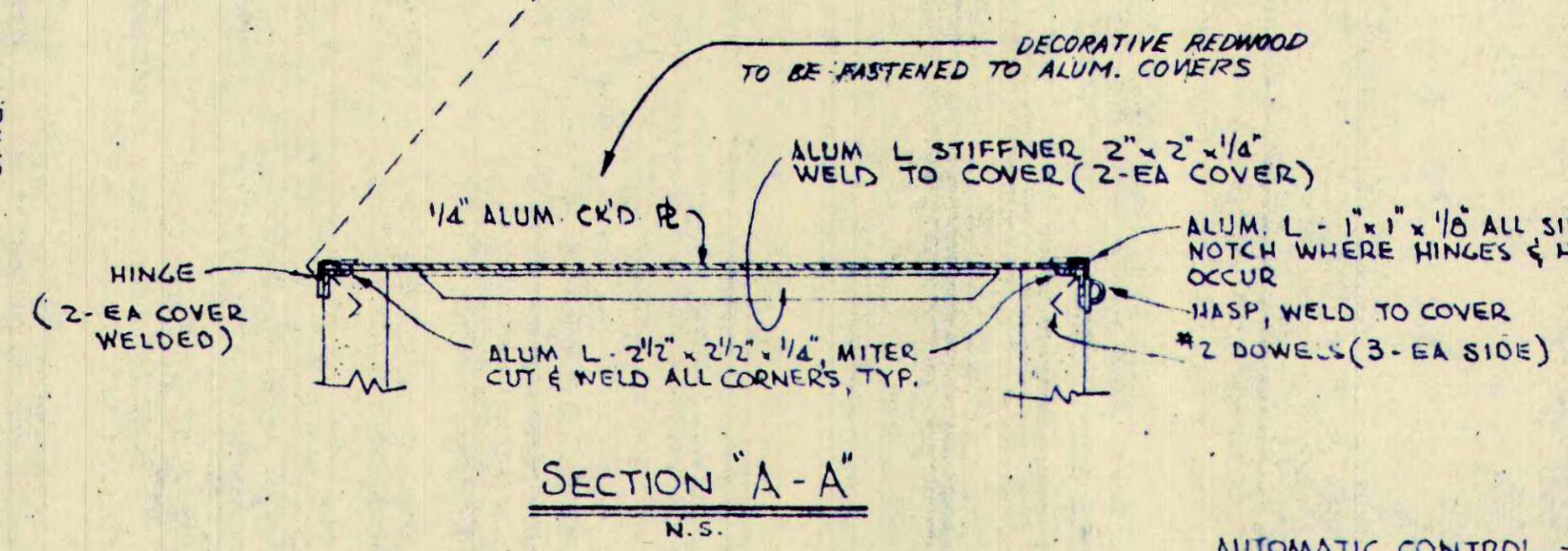
WET-WELL OPERATING FLOOR
(10" THICK PRECAST CONC.)
1/2" = 1'-0"

STRUCTURAL NOTES:

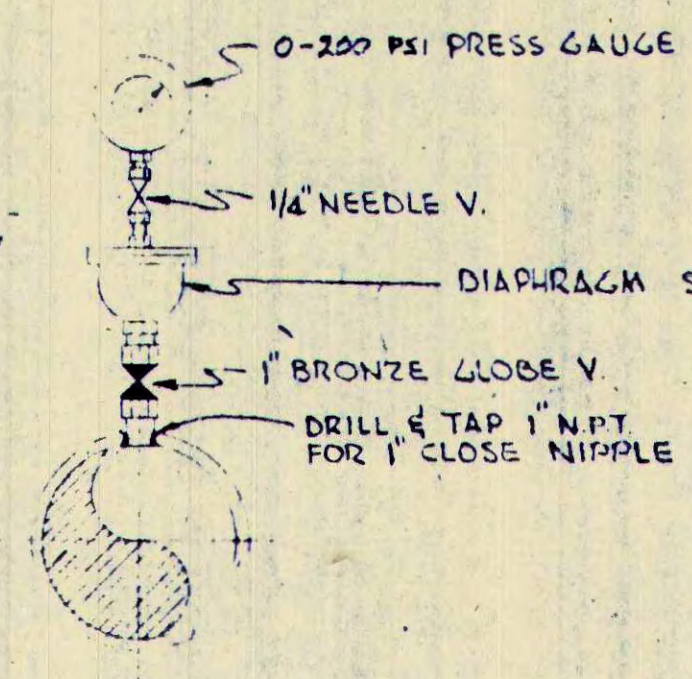
1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. AT AGE OF 28 DAYS
2. REINFORCING BARS SHALL BE DEFORMED TYPE, INTERMEDIATE GRADE ASTM A-615 GR 40
3. LAPS FOR R/F BARS SHALL BE 32φ AT SPLICES UNLESS OTHERWISE SHOWN.
4. UNLESS OTHERWISE NOTED, ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1" CHAMFER.
5. WALL FORMS MAY BE REMOVED AFTER 7 DAYS, ROOF SLAB FORMS MAY BE REMOVED AFTER 28 DAYS. RESHORING WILL BE PERMITTED ONLY WITH APPROVAL OF ENGINEER.



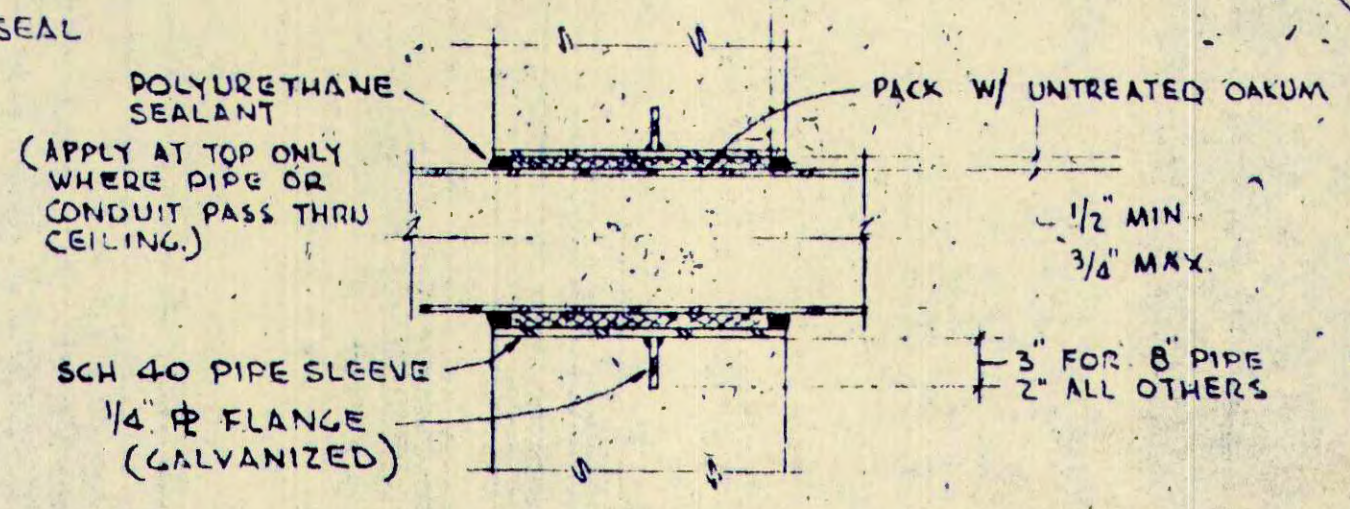
ROOF PLAN
1/2" = 1'-0"



SECTION "A-A"
N.S.



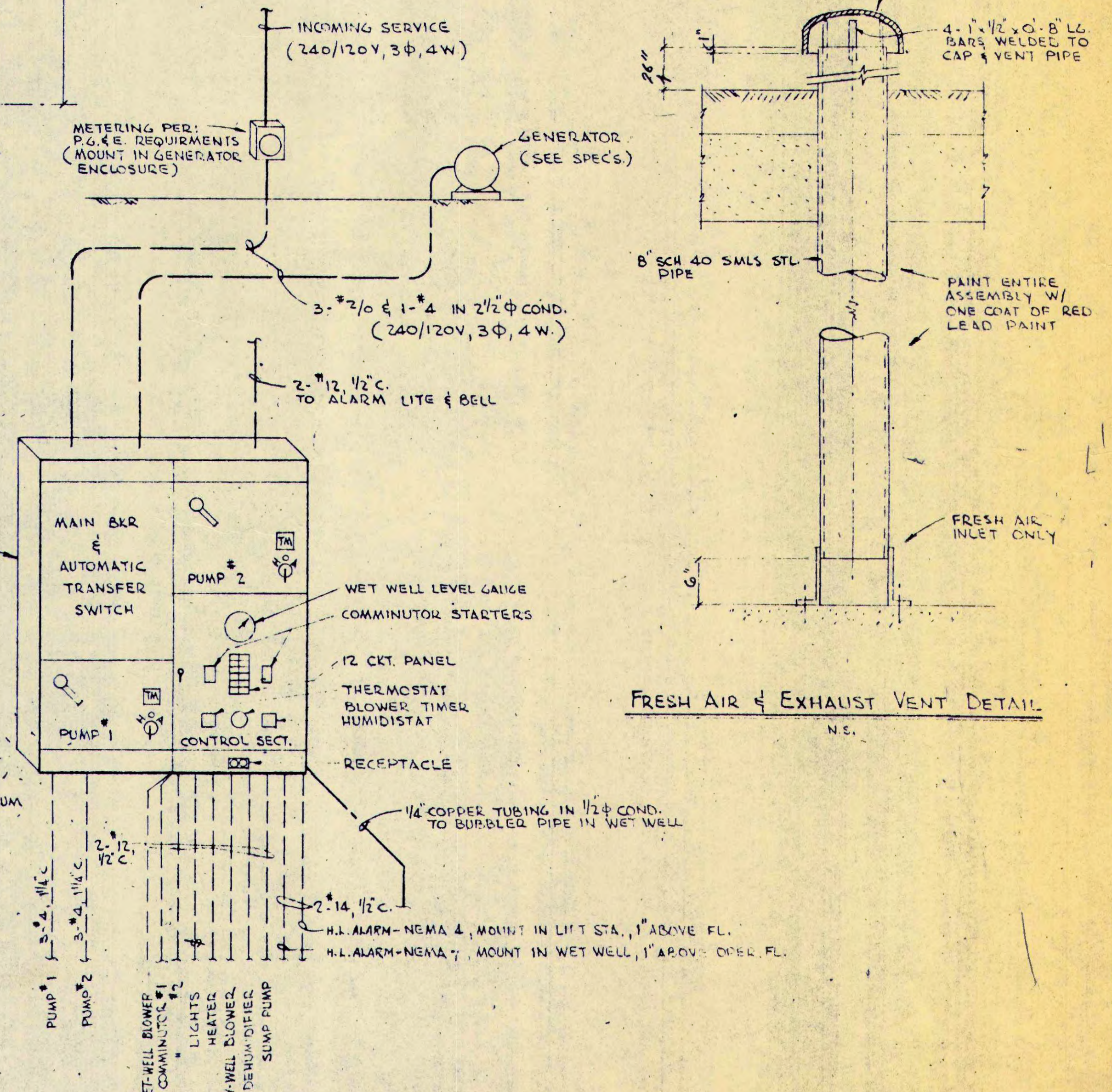
PRESSURE GAUGE ASSEMBLY
N.S.



PIPE OR CONDUIT PASSING THRU
WALLS OR CEILING
N.S.

LEGEND			
MARK	REQD.	DESCRIPTION	REMARKS
1	2	PUMP	SEE SPECS
2	2	25 H.P. ELECTRIC DRIVE MOTOR	" "
3	2	COMMUNICATOR	" "
4	1	CONTROL PANEL	" "
5	1	SUMP PUMP	" "
6	1EA	HIGH-LEVEL ALARM-NEMA-4 #7	SEE SPECS
7	2	PRESS GAUGE ASSEMBLY	SEE DTL THIS SHEET
8	4	8" PLUG V. LEVER OPERATED	
9	2	8"-125" SW CK V.	
10	1	1 1/4" BRONZE SW. CK. V.	
11	3	8" CAST COUPLING	
12	1	1 1/4" COMPRESSION COUPLING	
13	4	8" FL'D COUPLING ADAPTOR	
14	2	8" COUP. W/C.I. FL'D. ADAPTORS	
15	2	8"-125" C.I. FL'D. 90° BASE ELL.	
16	2	8" " " " 45° ELL.	
17	2	8" " " " LATERAL	
18	1	4" ADJ. PIPE SUPPORT SCH 40 (CALV)	
19	1	ADI PIPE HANGER	
20	1	VENT, 1 1/3 HP 3/60/15V	
21	1	8" STEEL ISO* BLIND FLG.	
22	2	8" 125" C.I. FL'D 90° ELL	
23	1	8" x 6" 125" C.I. FL'D ECC. RED.	
24	1	6" CAST COUP.	

ALL FLANGE GASKETS TO BE RING TYPE.
ALL FLANGE BOLTS & NUTS TO BE GALVANIZED.
ALL FLANGE BOLT HOLES SHALL STRADDLE EQUIP. & S.



CONTROL PANEL SCHEMATIC - SEE OPERATING MANUAL
N.S.

KIRKER, CHAPMAN & ASSOCIATES
Lead Design Engineer
San Francisco
415-398-7344

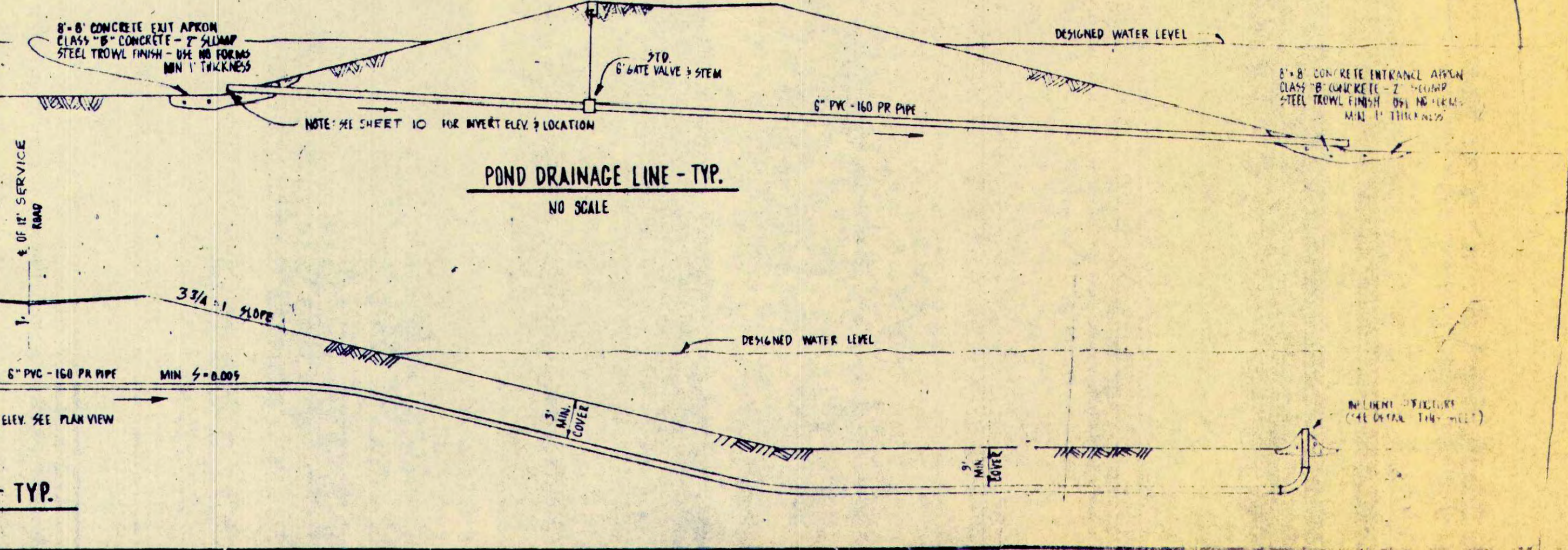
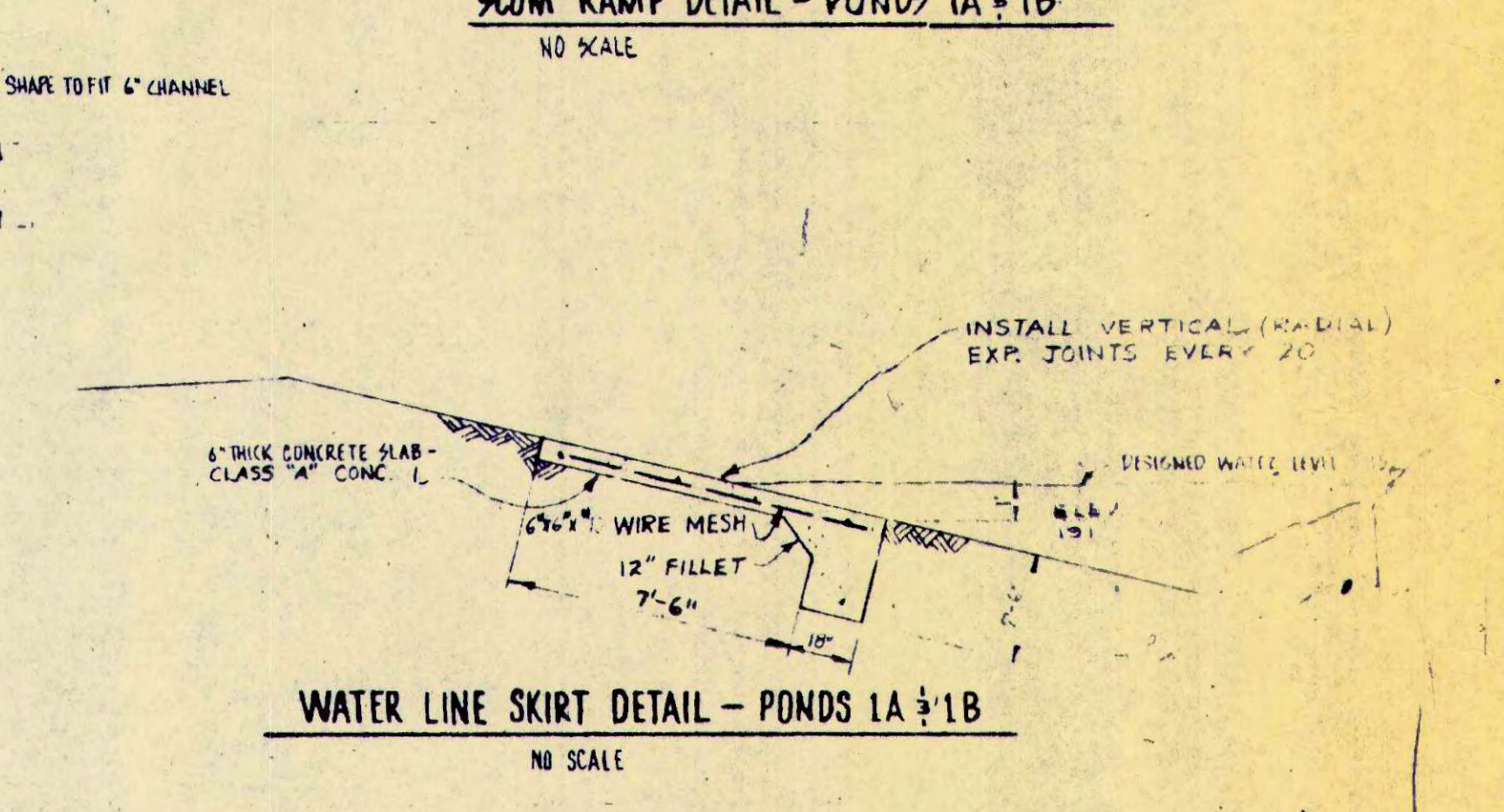
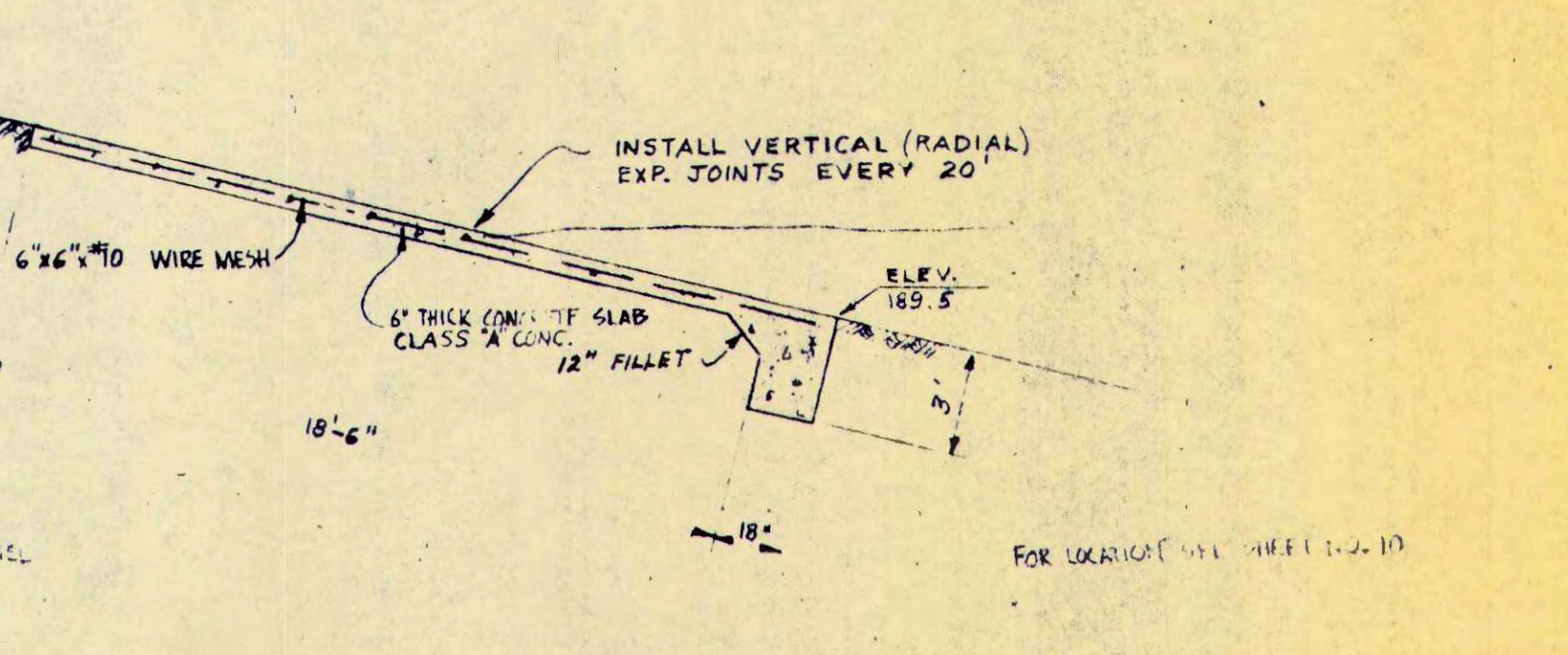
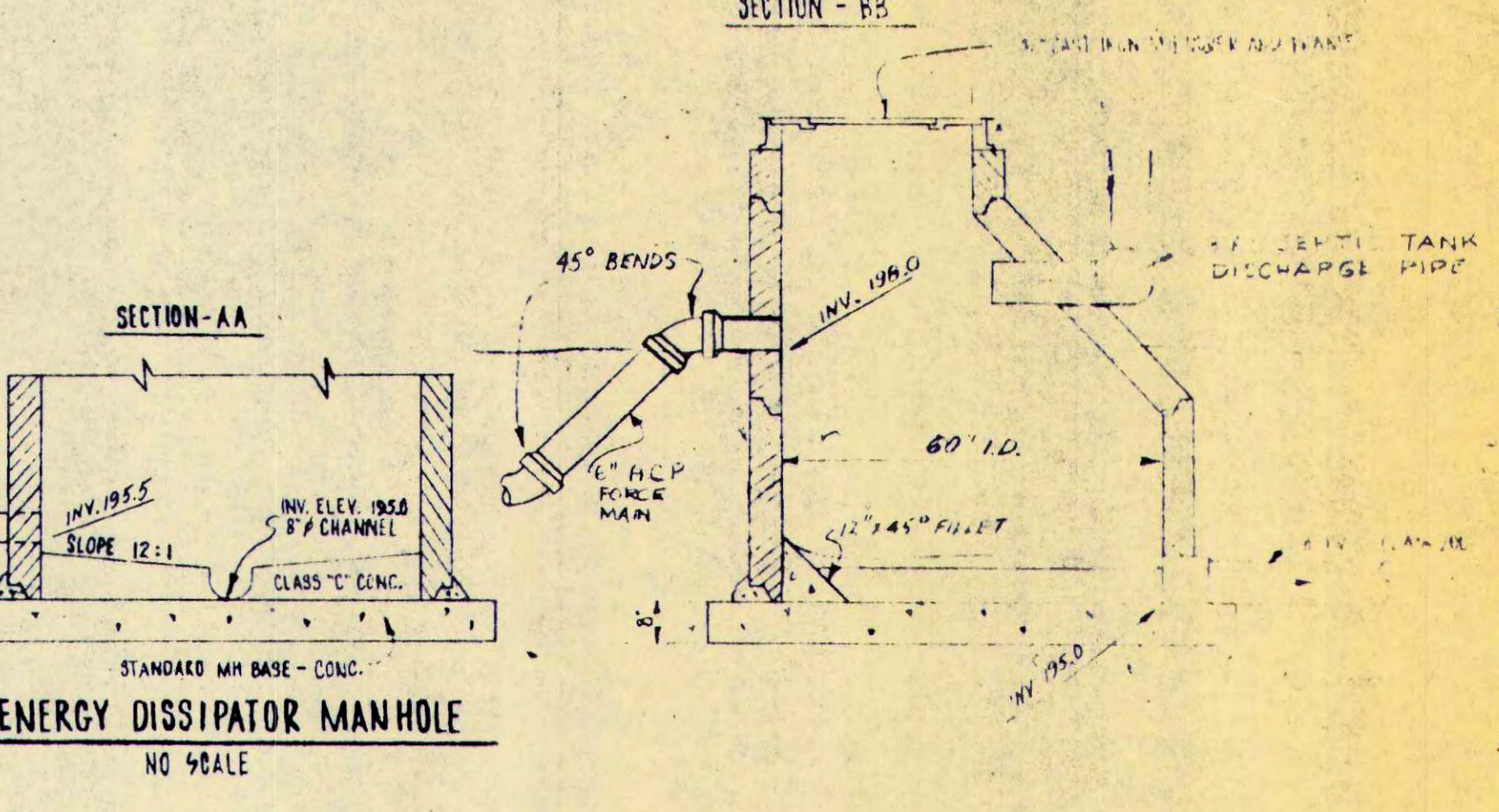
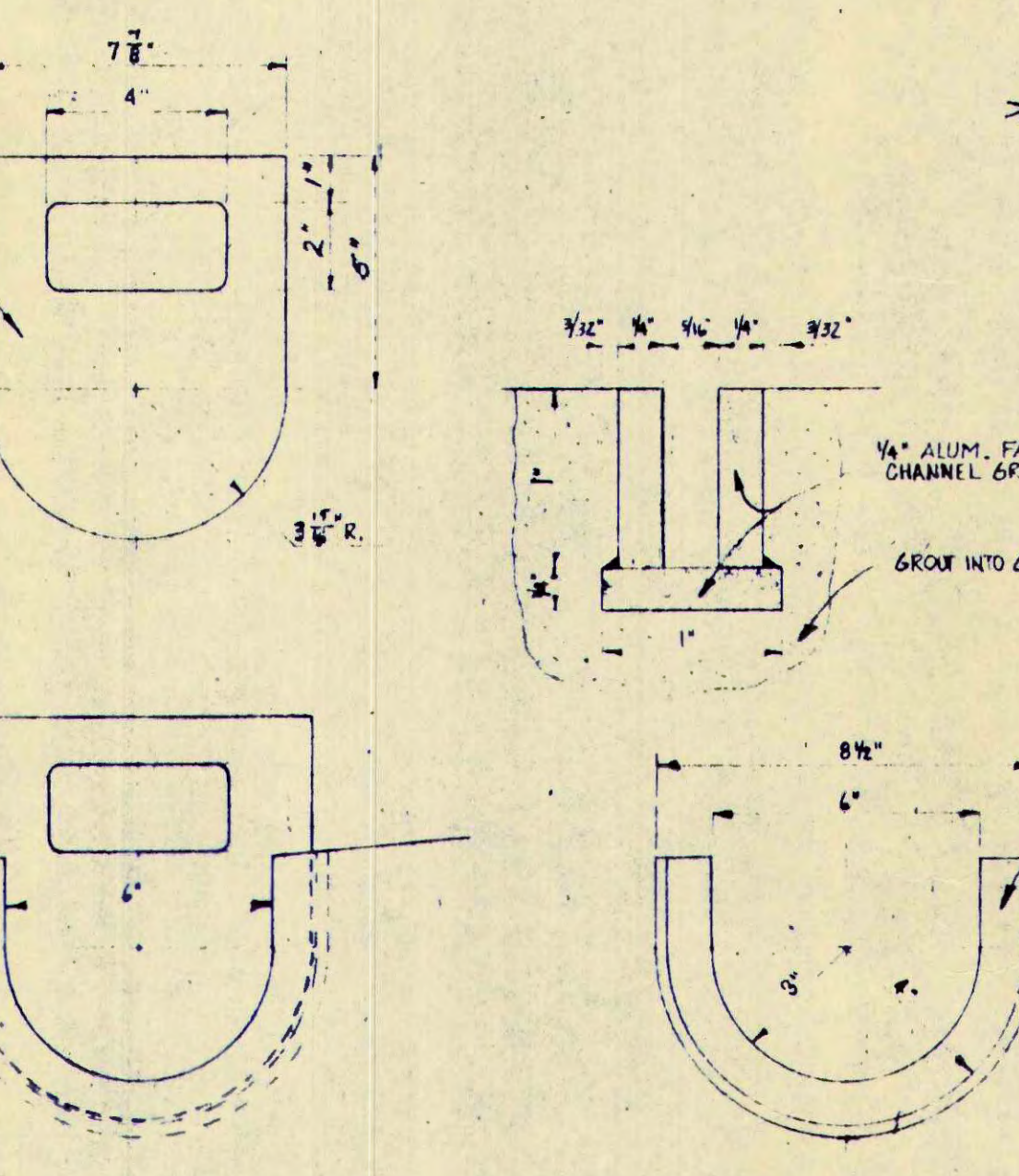
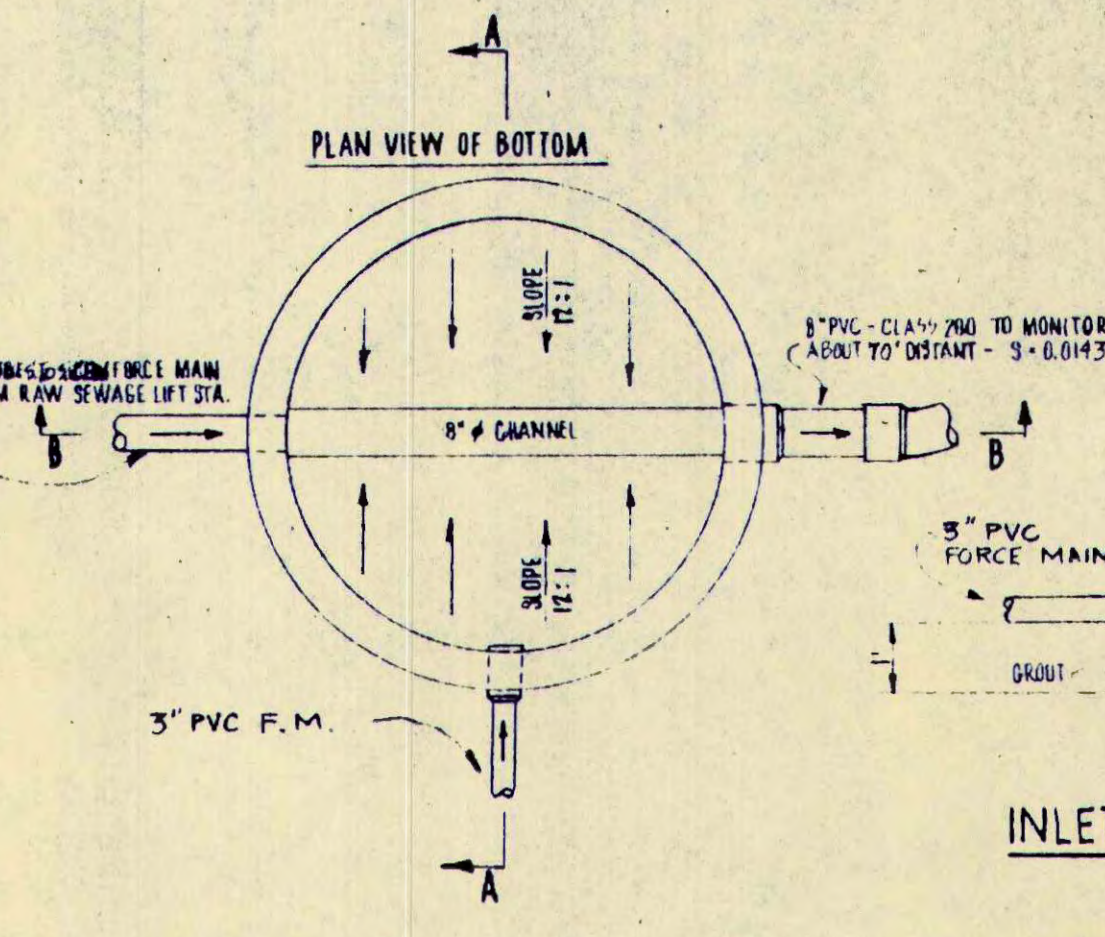
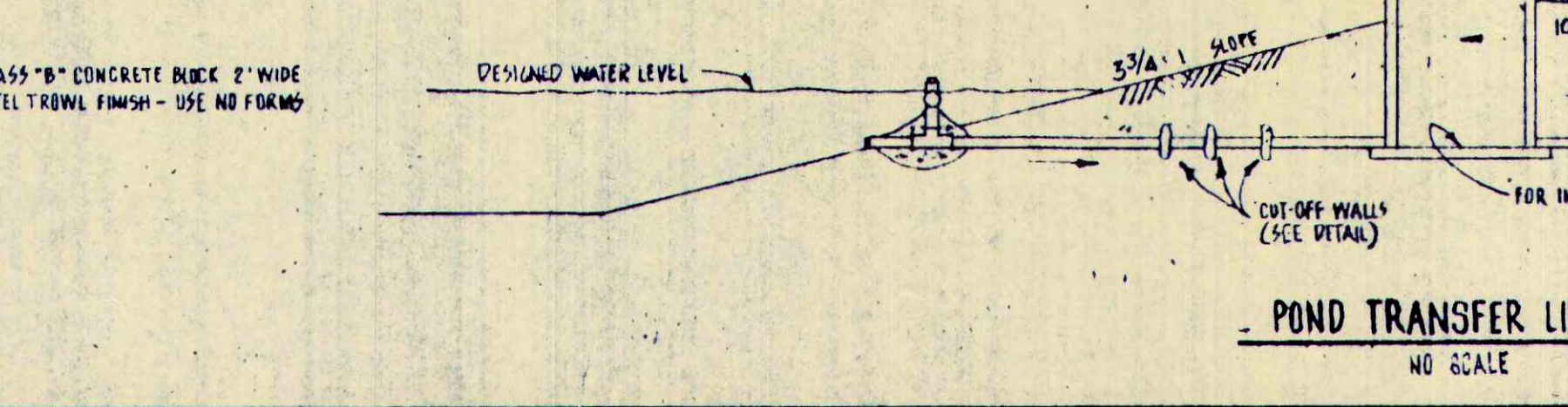
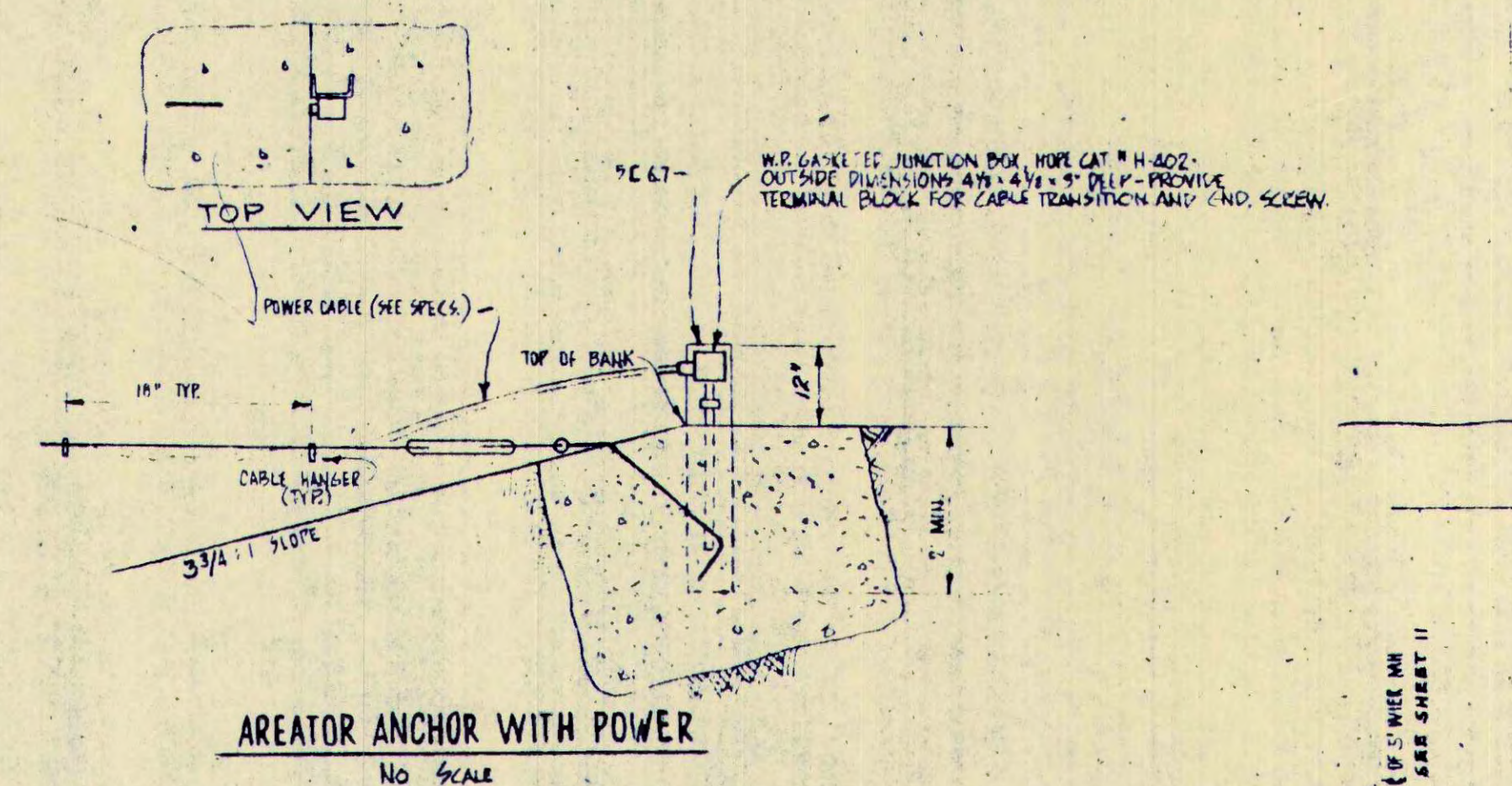
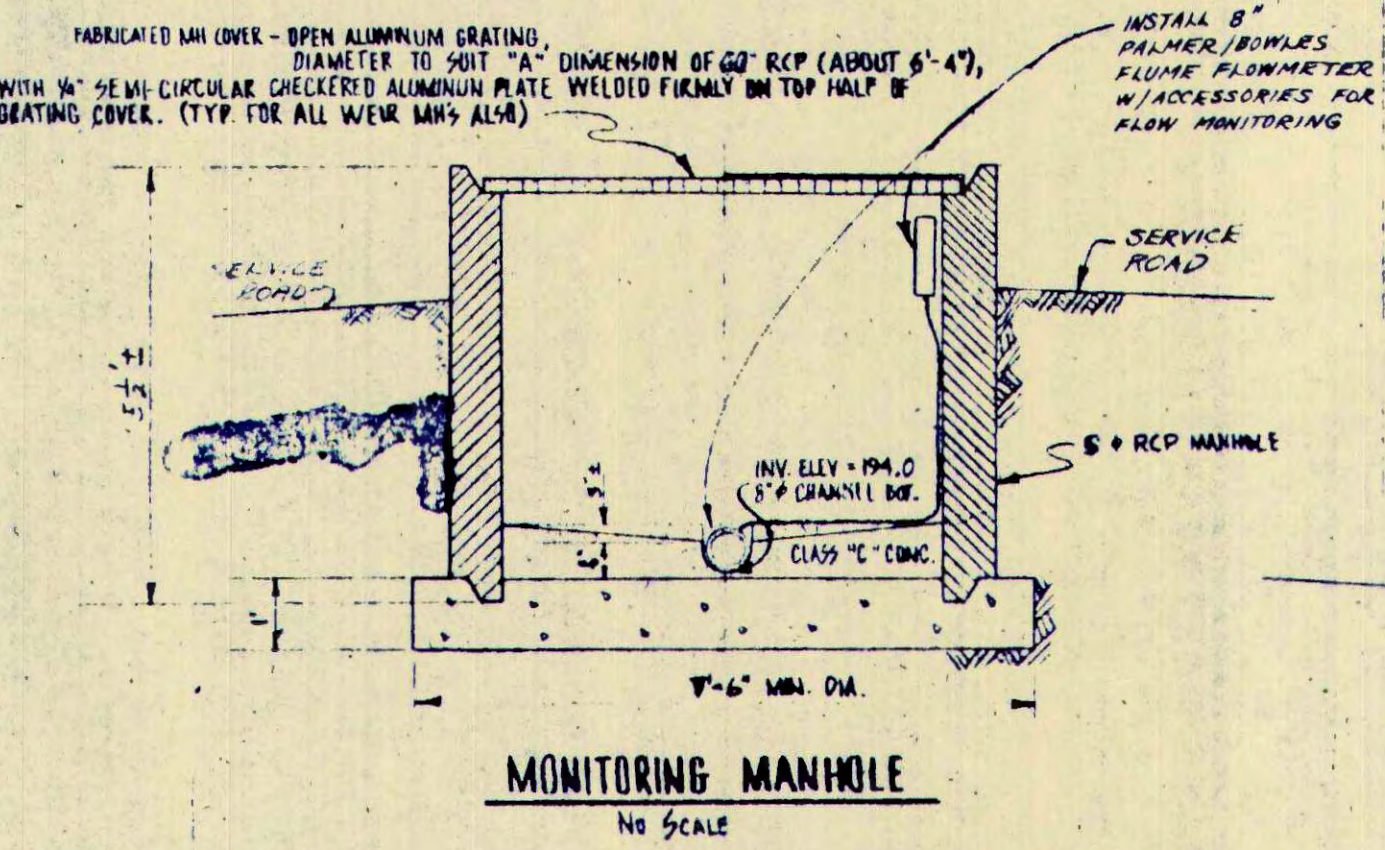
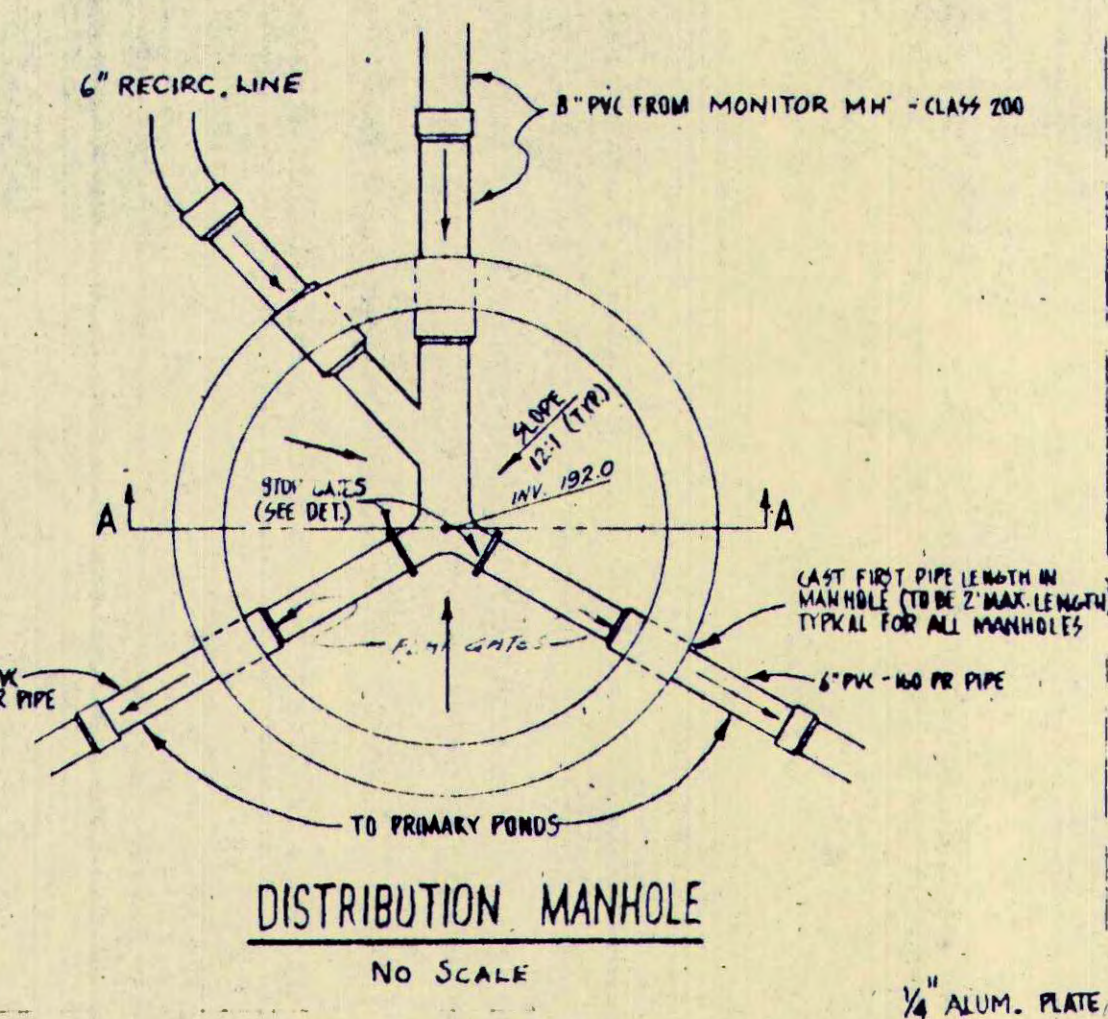
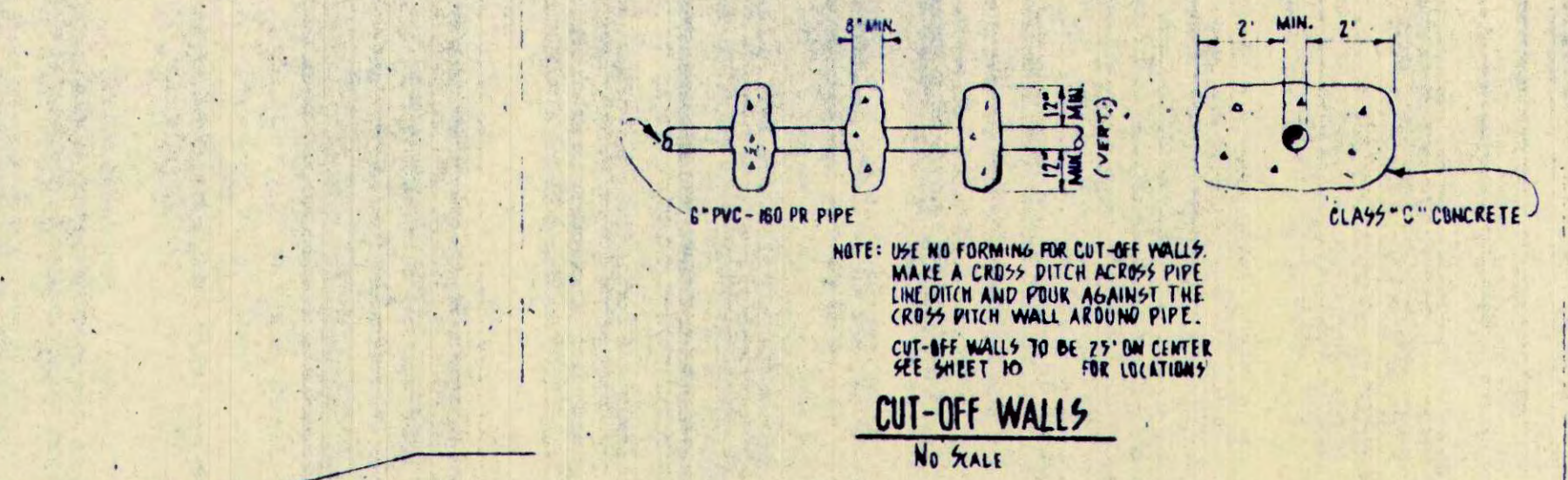
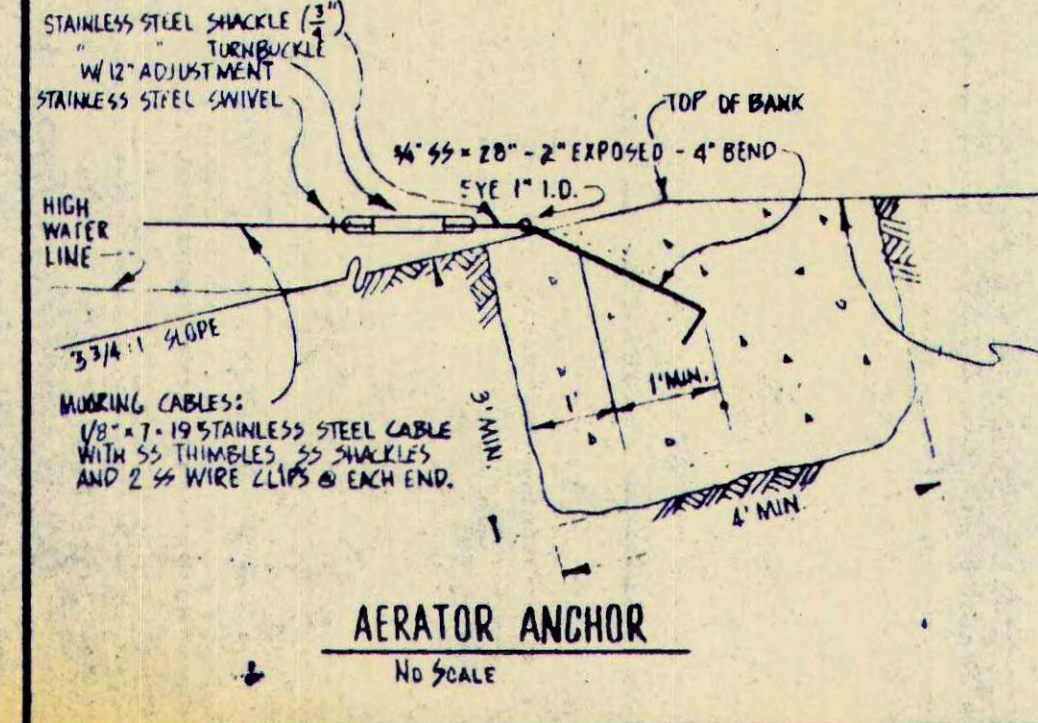
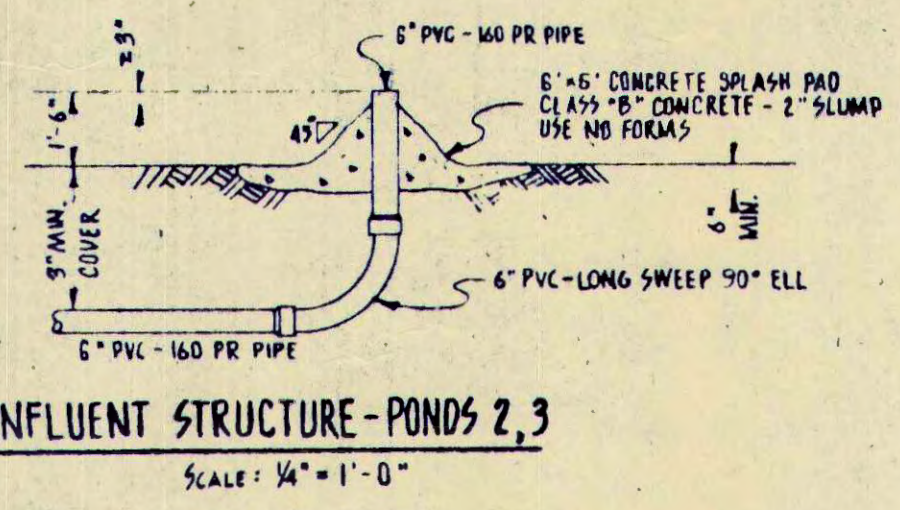
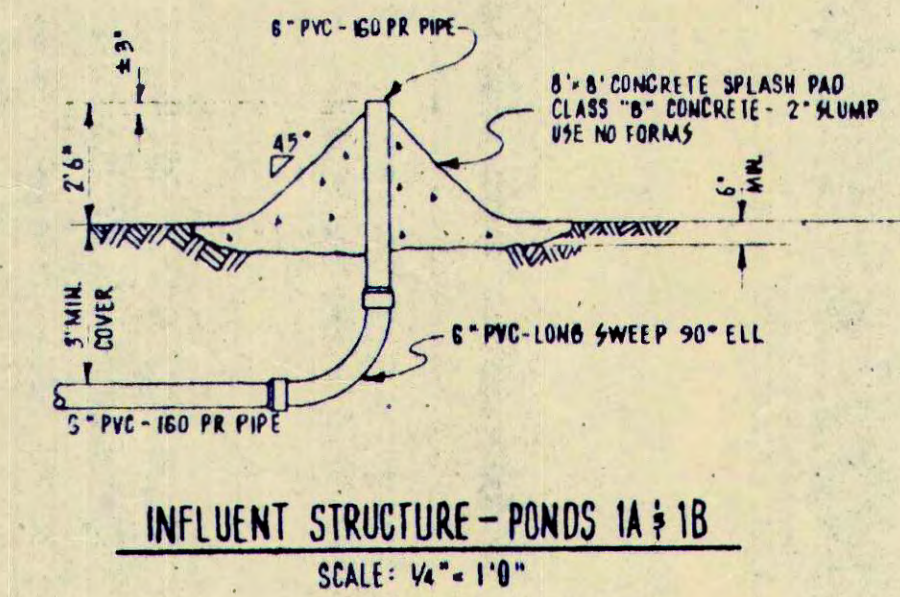
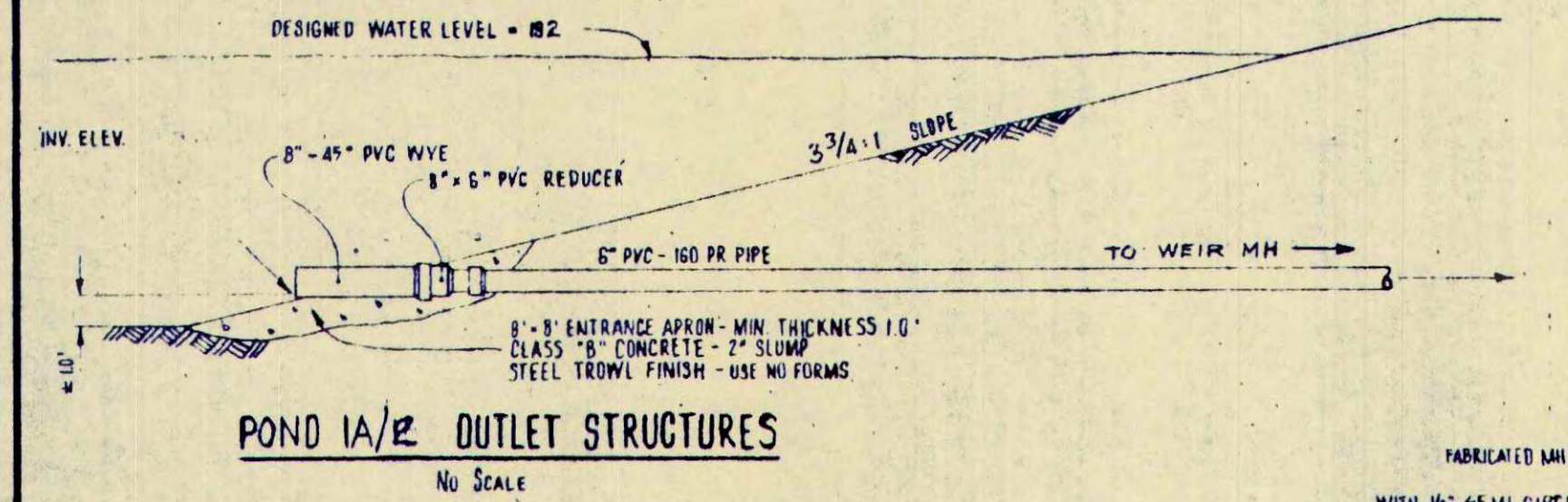
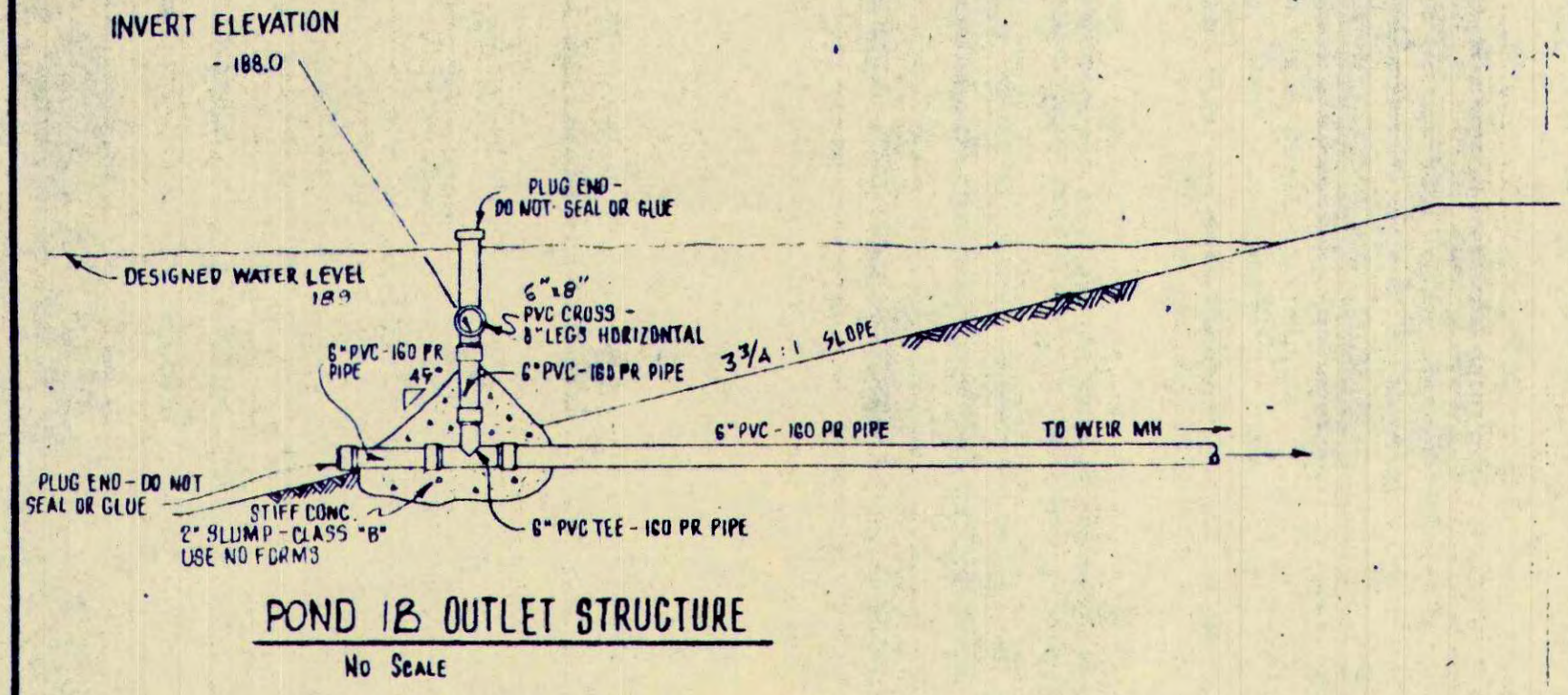
DATE: 1973
SCALE: AS NOTED

REVISIONS:
1. 6/16/73 BY: [Signature] DESCRIPTION: AS BUILT

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT AND DISPOSAL SYSTEM
SEWAGE LIFT STATION - DETAILS

KC

JOB NO. 839
SHEET 18 OF 20



KIRKER, CHAPMAN & ASSOCIATES
ENGINEERS

BOLINAS COMMUNITY PUBLIC UTILITY DISTRICT
WASTEWATER TREATMENT ... DISPOSAL SYSTEM

118

SHEET 13 OF 20

DATE: 1973

SCALE: AS SHOWN

EDWARD L. SPIRA, E.C.E. 15-337

