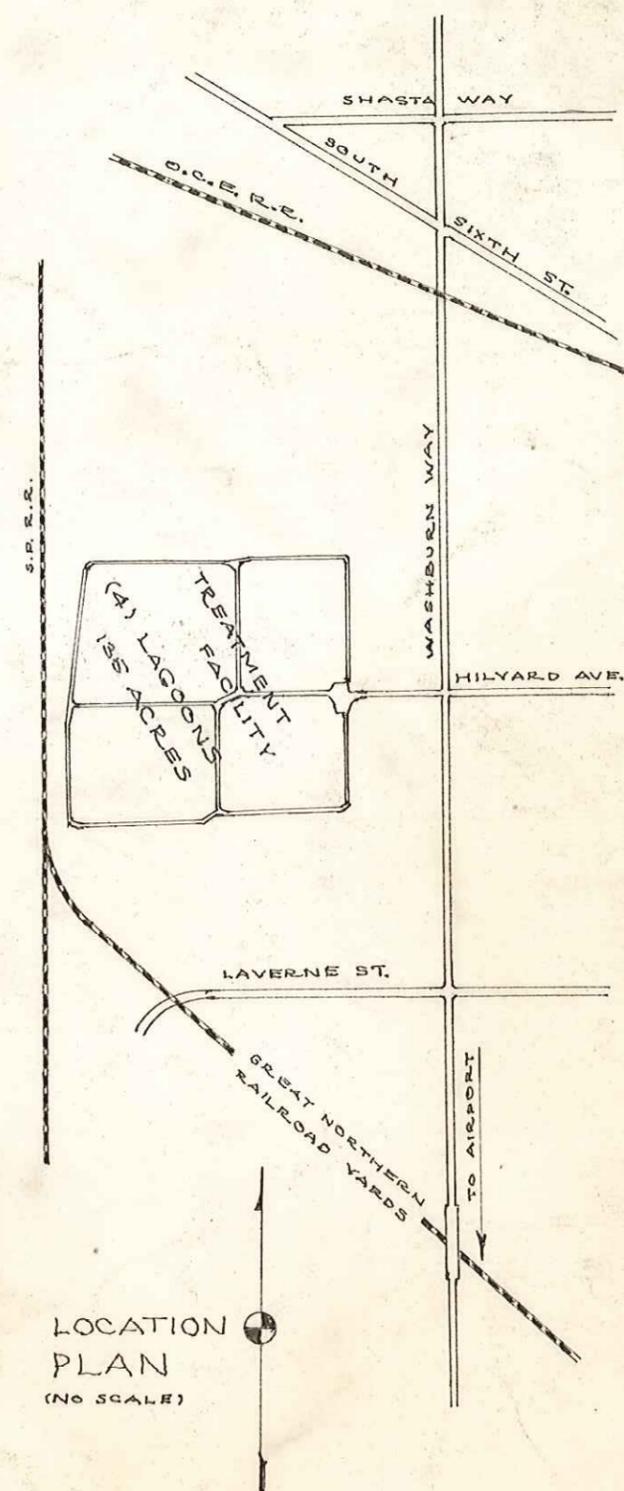


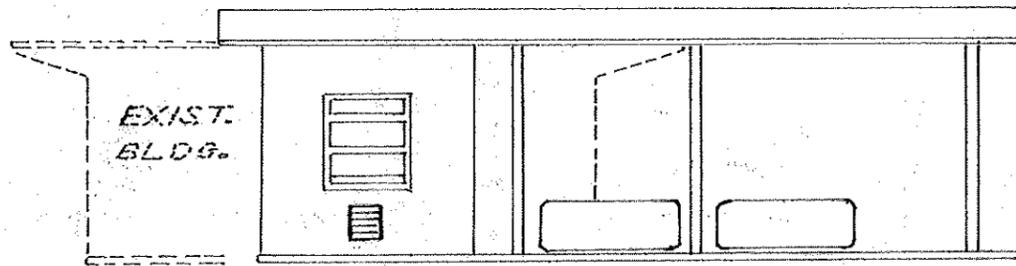
CHLORINATION OF EFFLUENT WILL BE ACCOMPLISHED THROUGH INTRODUCING CHLORINE SOLUTION AT NEW OUTFALL TO BE CONSTRUCTED AT WESTERLY END OF INTERMEDIATE DIKE BETWEEN N.W. AND S.W. PONDS. CHLORINATED EFFLUENT WILL FLOW INTO HOLDING BASIN - TO BE CONSTRUCTED ALONG WEST DIKE OF S.W. POND. OUTLET-OVERFLOW FROM EACH POND WILL NOT BE USED. EFFLUENT FROM EAST PONDS WILL FLOW THROUGH LARGER WEST PONDS TO NEW COMMON OUTLET FOR CHLORINATION. CHLORINATED EFFLUENT TO BE DISCHARGED AT END OF HOLDING BASIN INTO OPEN DITCH BETWEEN WEST DIKE AND SOUTHERN PACIFIC RAILROAD DIKE, TO BE PUMPED ACROSS RAILROAD DIKE INTO MAIN LAKE EWAUNA.

Note: Design & Drawing by
M.D. Gunderson, S.S. San. District.
Checked & Approved, 6-11-68.
Lyle C. Smith

SCALE: 1" = 400'

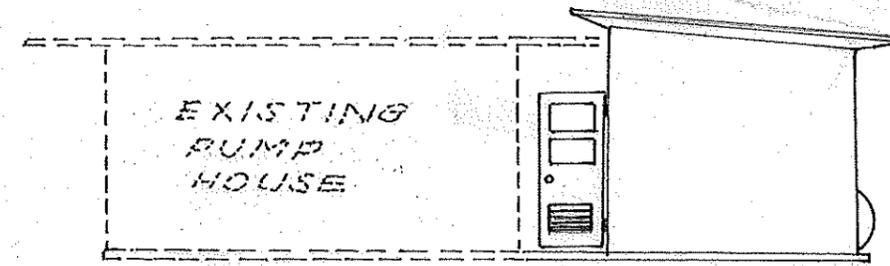


SOUTH SUBURBAN SANITARY DISTRICT
KLAMATH COUNTY, OREGON
INSTALLATION OF CHLORINATION
AT DISPOSAL FACILITY.
DRAWN: M.D.G.
CHECKED: L.C.S. SHEET 1 OF 6



EXIST.
BLDG.

NORTH ELEVATION
 $\frac{1}{8}'' = 1'-0''$



EXISTING
PUMP
HOUSE

EAST ELEV.
 $\frac{1}{8}'' = 1'-0''$

CHLORINE TANKS UNLOADED
AND CHANGED BY 2 TON
ELECTRIC HOIST ON OVERHEAD
TROLLEY TRACK.

NEW BUILDING HOUSES SCALES WITH ACTIVE
2000[#] TANK AND CHLORINATOR. BUILDING
TO BE HEATED BY ELECTRIC HEAT. VENTILATION
LOUVRE IN DOOR PANEL NORMALLY CLOSED.
EXHAUST FAN RUNS WHEN DOOR IS OPENED.

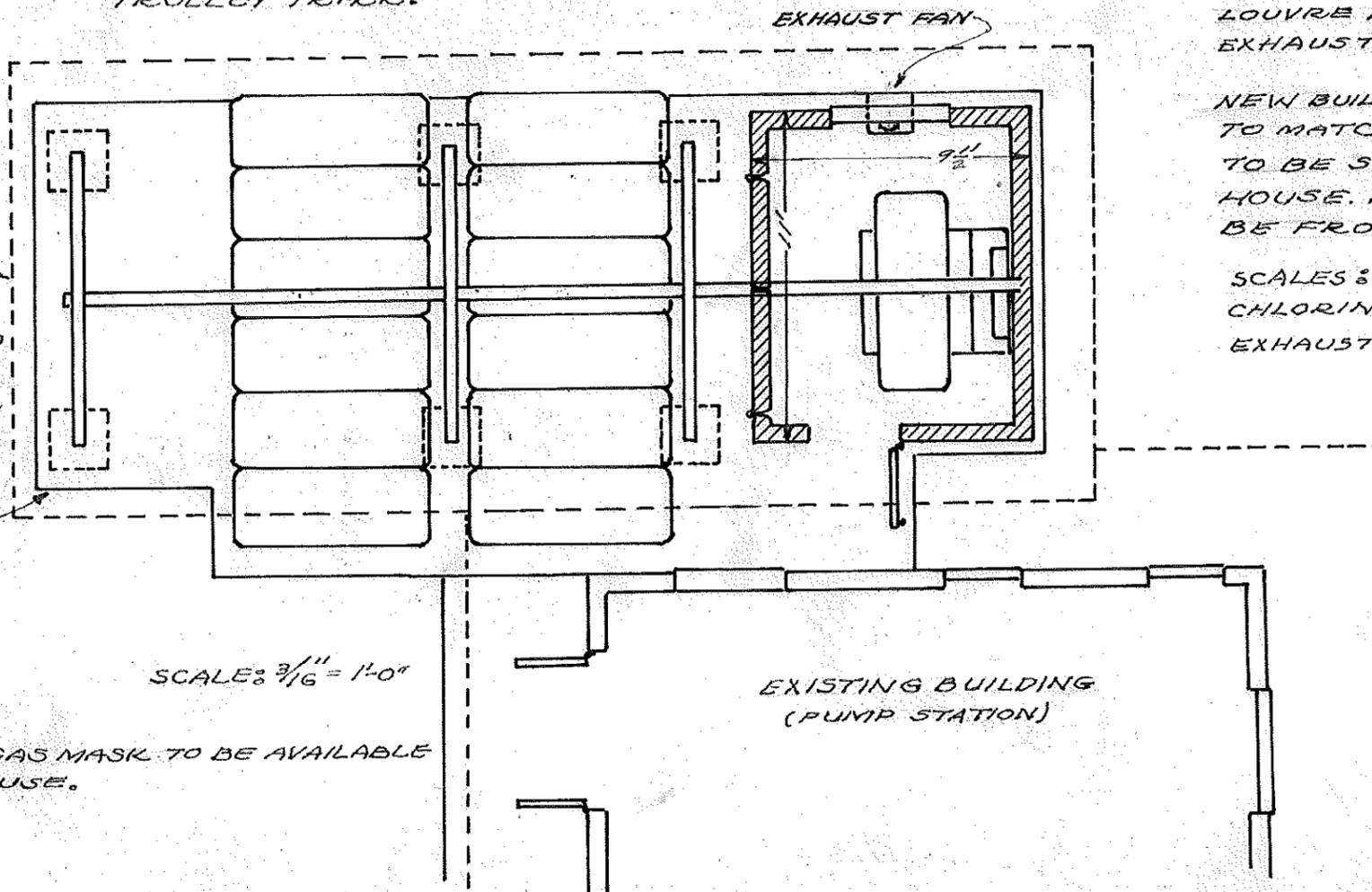
NEW BUILDING TO BE OF MASONRY CONSTRUCTION
TO MATCH EXISTING PUMP HOUSE. NEW BLDG.
TO BE SUPPLIED WITH POWER FROM PUMP
HOUSE. WATER FOR CHLORINE SOLUTION TO
BE FROM WELL.

SCALES: FAIRBANKS # 12145, TYPE 3
CHLORINATOR: ADVANCE # 270
EXHAUST FAN: PYRNE # X5120-1450 C.F.M.



OUTLINE OF
ROOF OVER
NEW BLDG.
AND TANK
STORAGE

REINFORCED
CONCRETE
SLAB UNDER
TANK AREA
AND BLDG.



SCALE: $\frac{3}{16}'' = 1'-0''$

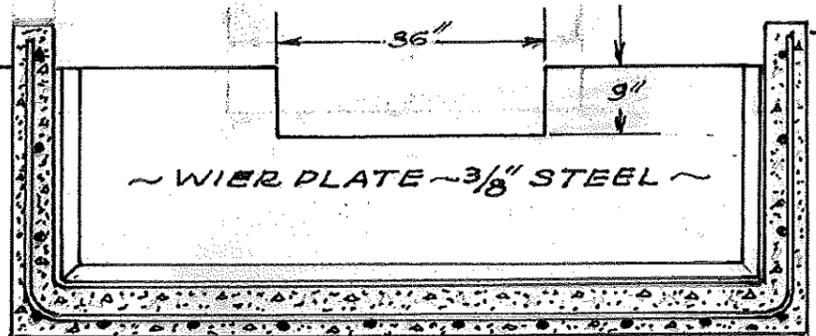
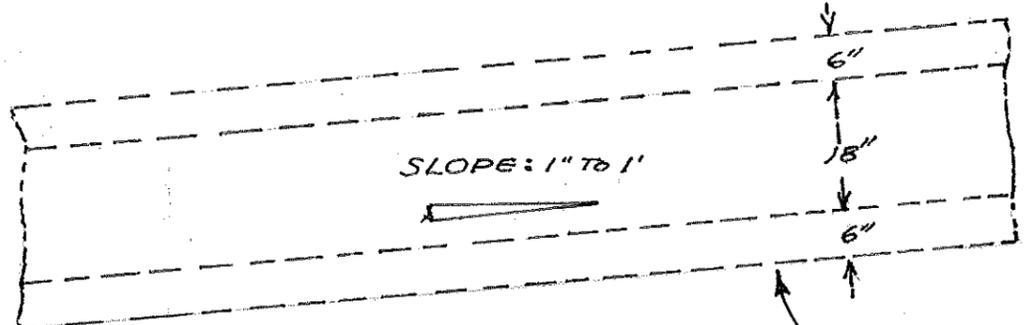
EXISTING BUILDING
(PUMP STATION)

CHLORINE GAS MASK TO BE AVAILABLE
IN PUMP HOUSE.

SOUTH SUBURBAN SANITARY DISTRICT
KLAMATH COUNTY, OREGON
CHLORINATOR INSTALLATION
DRAWN: M.D.G. REVISED
CHECKED: SHEET 6 OF 6

ORIGINAL
DIKE ~ ELEV: 4091.0
(SEE SHEET #4A FOR THIS DETAIL)

PROPOSED DIKE ELEV: 4088.5

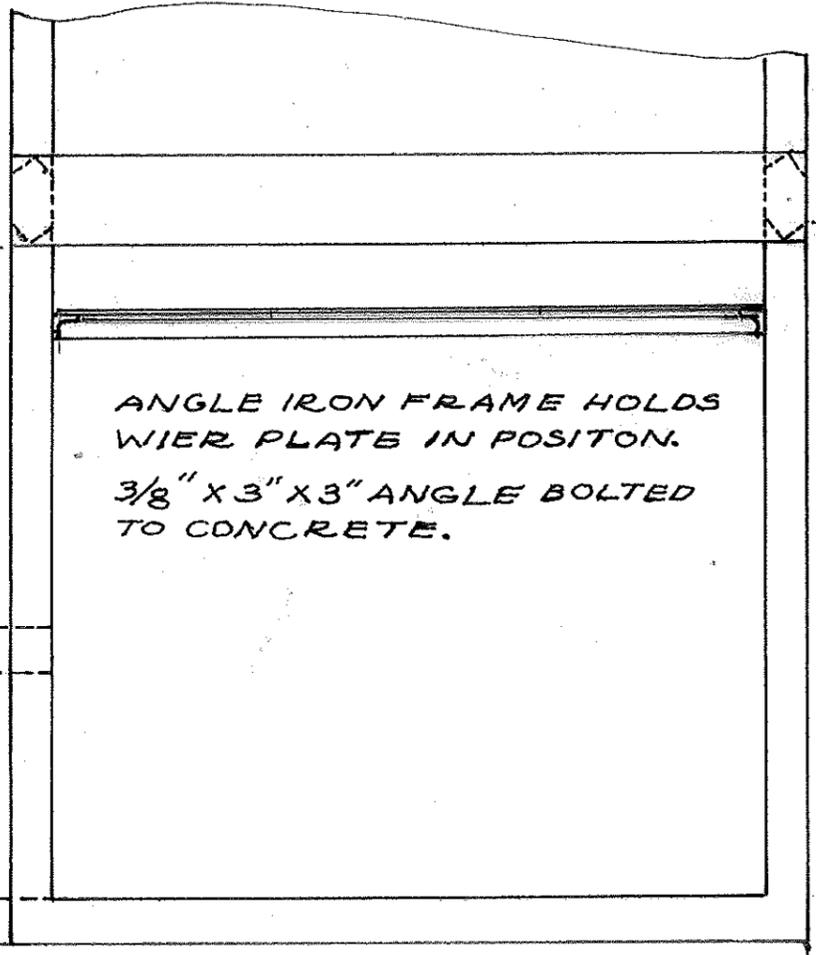


NORMAL SURFACE ~
ELEVATION: 4088.5

CROSS SECTION OF CHLORINATING
BASIN AT MEASURING WIER.

DIMENSION OF WEIR PLATE REVISED
TO CONFORM TO SPECIFICATIONS
RECOMMENDED FOR USE OF
'STEVENS' MODEL 61R, TOTAL
FLOW METER.

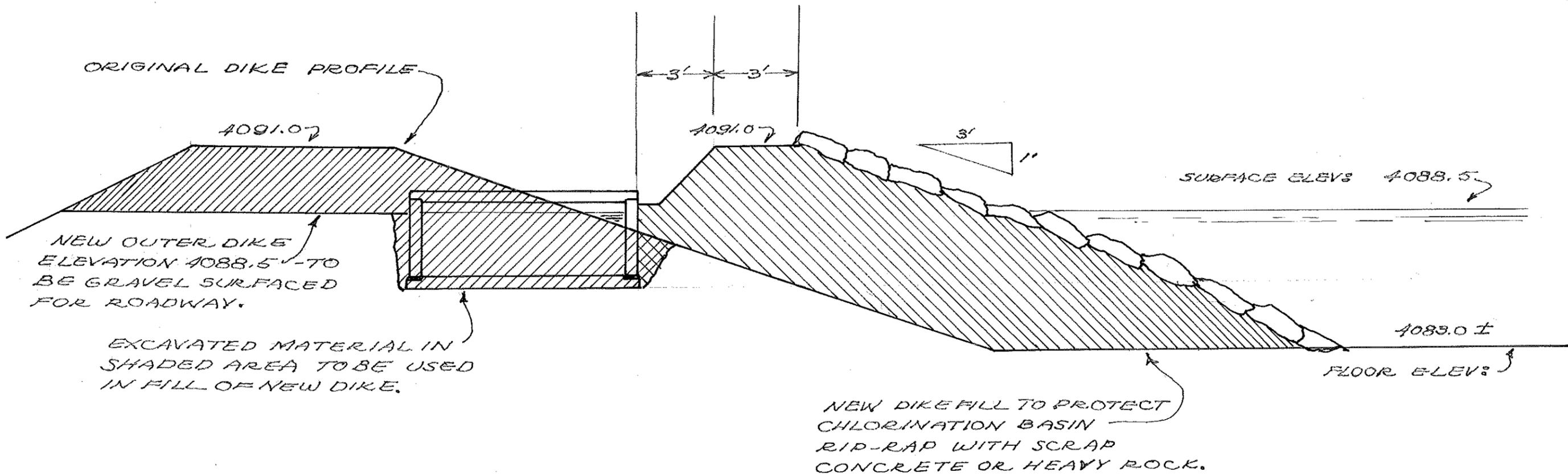
REINFORCED CONCRETE
CONDUIT, SIZE: 18" X 36",
CARRIES CHLORINATED
EFFLUENT ACROSS DIKE
TO DITCH TO PUMP
INTAKE.



MAIN BODY OF CHLORINATING
BASIN. SEE SHEET # 4

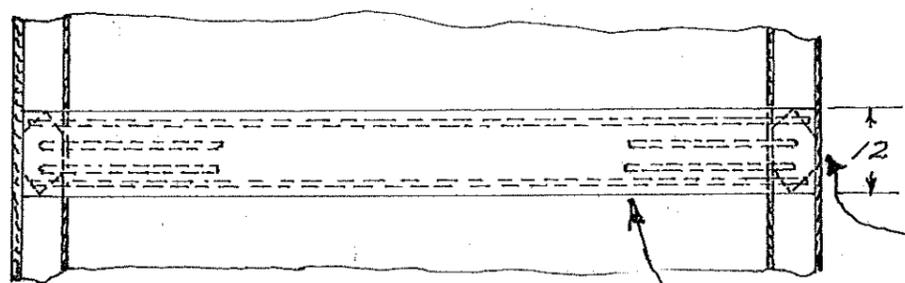
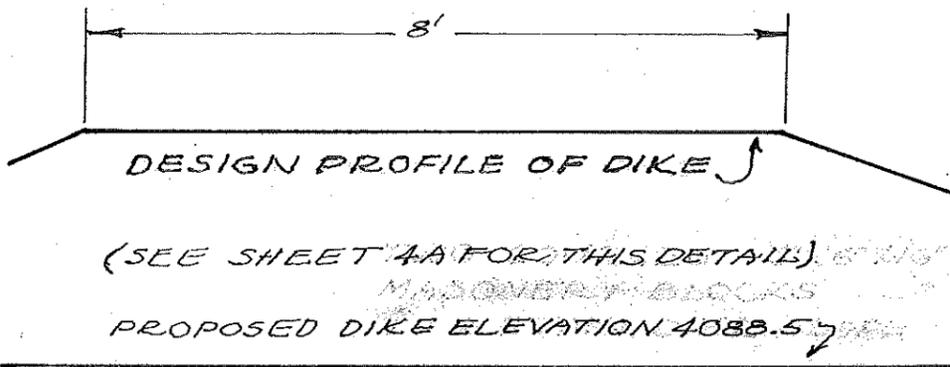


SOUTH SUBURBAN SANITARY DISTRICT
KLAMATH COUNTY, OREGON
MEASURING WIER - OUTLET
DETAILS
DRAWN: M.D.G. REVISED
CHECKED: L.C.S. SHEET 5 OF 5



TYPICAL CROSS SECTION ALONG WEST DIKE OF SOUTH WEST POND AFTER INSTALLATION OF CHLORINATION BASIN.

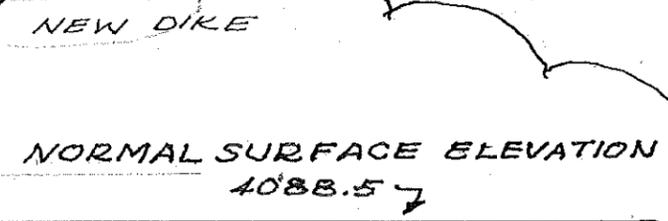
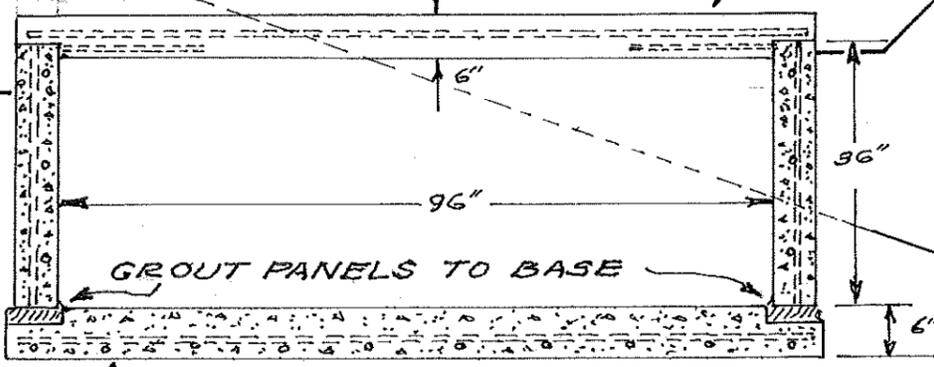
SOUTH SUBURBAN SANITARY DISTRICT
KLAMATH COUNTY, OREGON
WEST DIKE CROSS SECTION
SOUTH WEST POND
DRAWN: M.D.G. SUPPLEMENT
CHECKED: SHEET 4-A



POUR CONNECTING SECTION TO JOIN PRECAST SIDE PANELS TO FORM CONTINUOUS WALL - EACH SIDE.

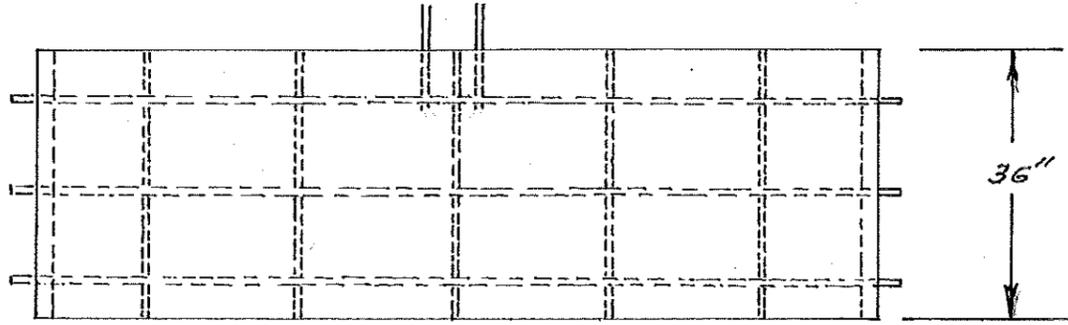
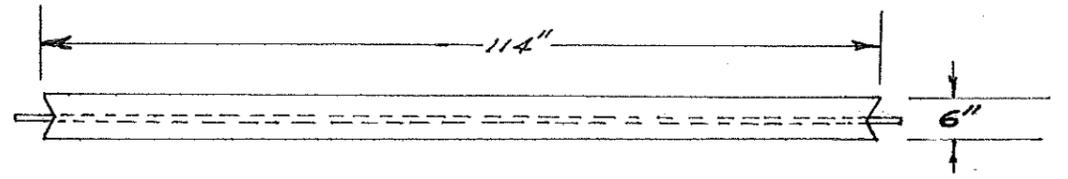
AT EACH JOINT POUR 6"X12" CROSS TIE TO REINFORCE AND TIE WALLS TOGETHER.

AT EACH JOINT POUR 2"X12" CROSS TIE TO REINFORCE

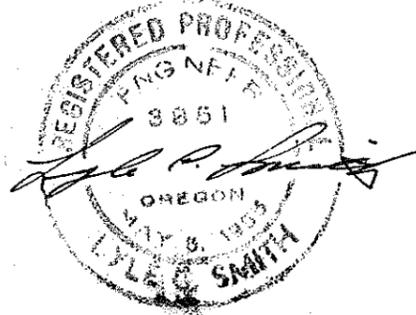


BASE SLAB POURED AS CONTINUOUS REINFORCED BASE. STEEL #4 ON 12" EACH WAY.

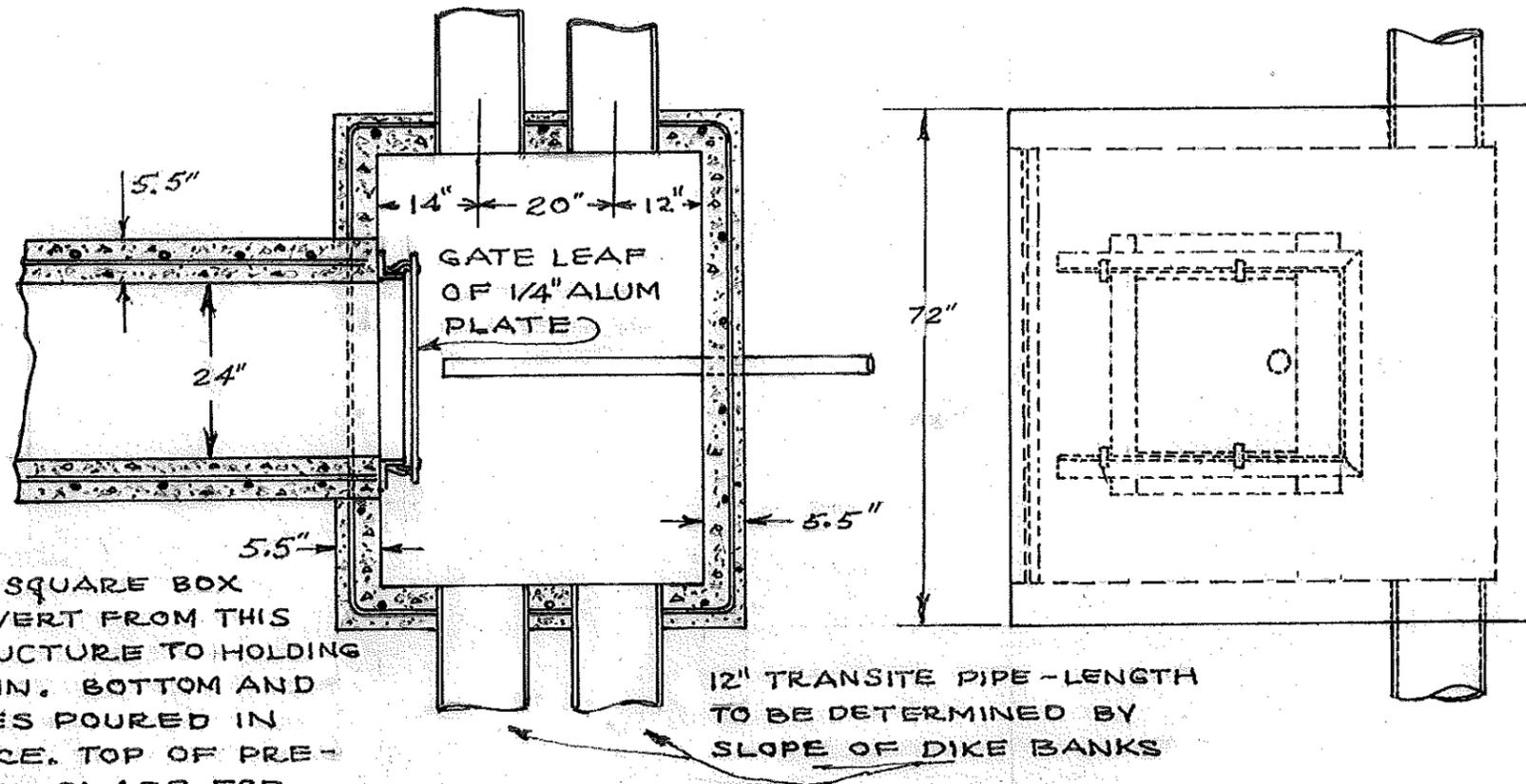
EXCAVATED MATERIAL TO BE USED TO BACKFILL POND SIDE OF BASIN. THIS BACKFILL TO BE CARRIED TO ELEV: 4097 (SEE SHEET 4A) AND RIP-RAP ADDED TO PREVENT WAVE EROSION.



PRECAST PANELS ~ 130 REQUIRED GROUTED TO BASE SLAB TO FORM WALLS OF BASIN.

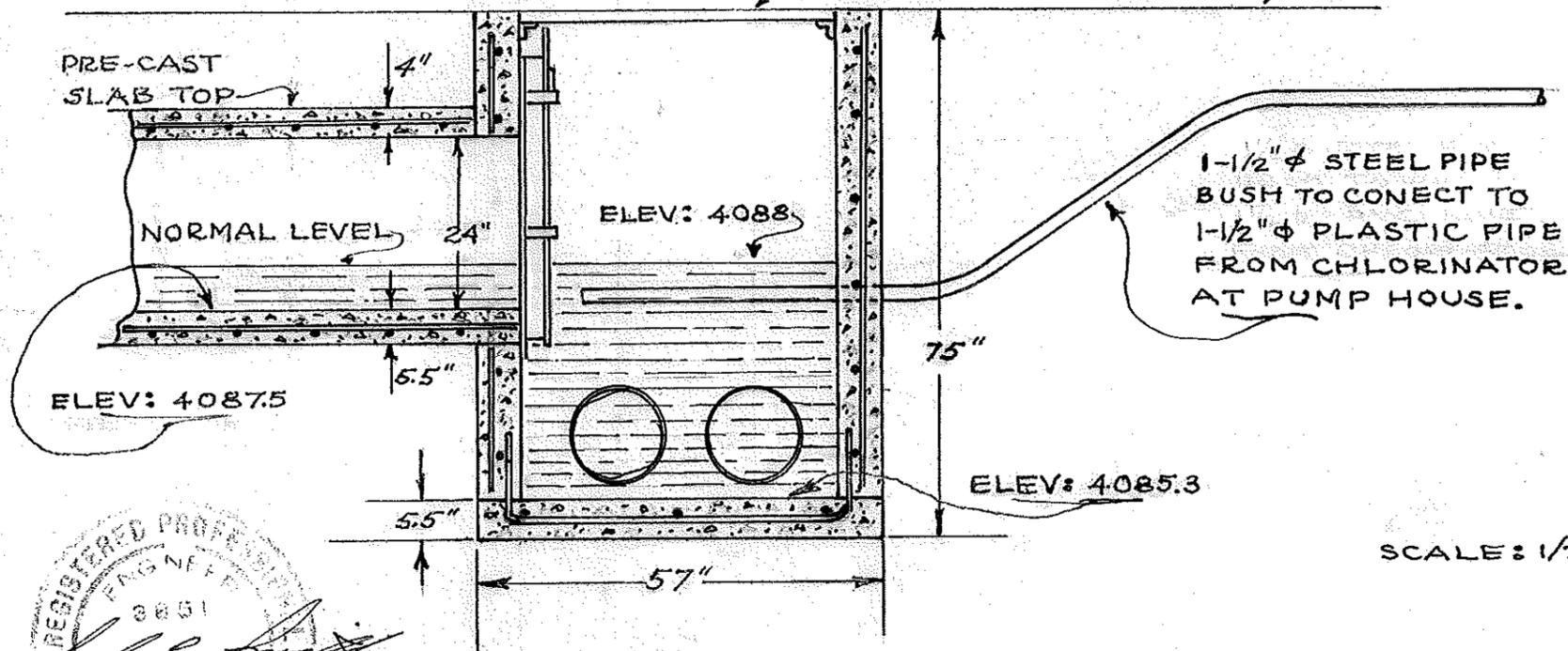


SOUTH SUBURBAN SANITARY DISTRICT
 KLAMATH COUNTY, OREGON
 CHLORINATION BASIN
 DETAILS
 DRAWN: M.D.G.
 CHECKED: L.C.S. SHEET 4 OF 6

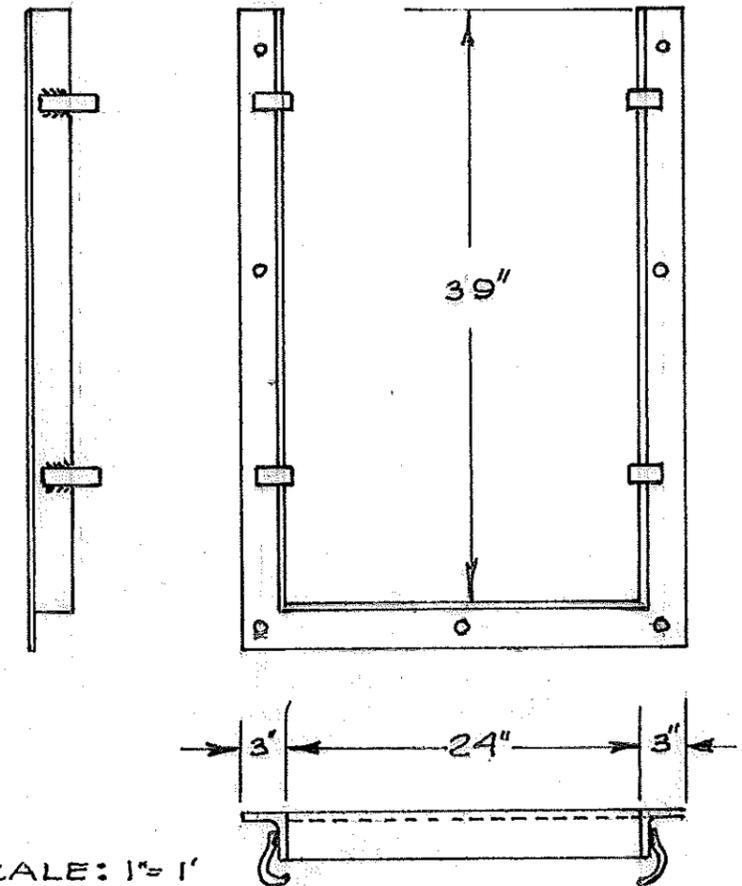


24" SQUARE BOX CULVERT FROM THIS STRUCTURE TO HOLDING BASIN. BOTTOM AND SIDES Poured IN PLACE. TOP OF PRE-CAST SLABS FOR REMOVAL IF REQUIRED.

IRVING GRATING TOP OF DIKE

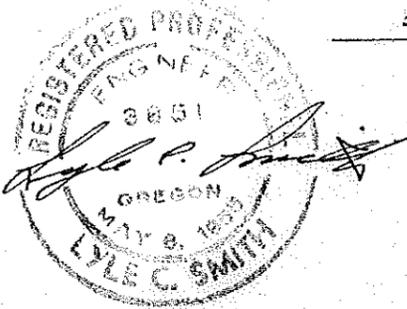


SCALE: 1/2" = 1'



SCALE: 1" = 1'

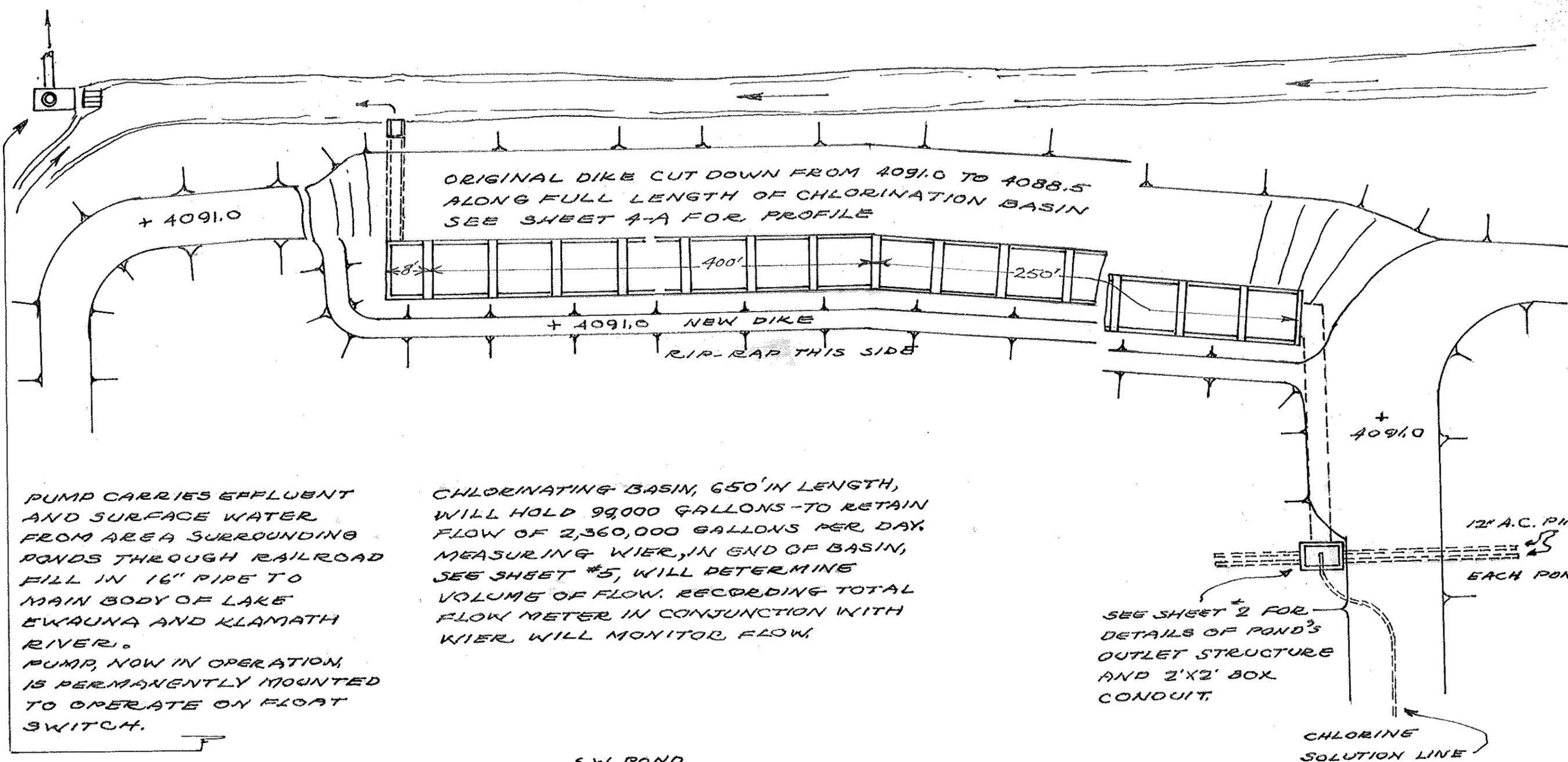
GATE FRAME OF 1/4" X 1/4" X 3" ALUM ANGLE. BOLT TO CONCRETE AS SHOWN WITH 1/2" ϕ ALUMINUM BOLTS. GATE LEAF (NOT SHOWN) TO BE OF 1/4" ALUMINUM PLATE ~ 26" X 38"



SOUTH SUBURBAN SANITARY DISTRICT
KLAMATH COUNTY, OREGON
POND OUTLET STRUCTURE
DETAILS

DRAWN: M.D.G.
CHECKED: L.C.S.

SHEET 3 OF 3



ORIGINAL DIKE CUT DOWN FROM 4091.0 TO 4088.5
 ALONG FULL LENGTH OF CHLORINATION BASIN
 SEE SHEET 4-A FOR PROFILE

+ 4091.0

+ 4091.0 NEW DIKE
 RIP-RAP THIS SIDE

+ 4091.0

PUMP CARRIES EFFLUENT AND SURFACE WATER FROM AREA SURROUNDING PONDS THROUGH RAILROAD FILL IN 16" PIPE TO MAIN BODY OF LAKE EWAUNA AND KLAMATH RIVER. PUMP, NOW IN OPERATION, IS PERMANENTLY MOUNTED TO OPERATE ON FLOAT SWITCH.

CHLORINATING BASIN, 650' IN LENGTH, WILL HOLD 99,000 GALLONS - TO RETAIN FLOW OF 2,360,000 GALLONS PER DAY. MEASURING WIER, IN END OF BASIN, SEE SHEET #5, WILL DETERMINE VOLUME OF FLOW. RECORDING TOTAL FLOW METER IN CONJUNCTION WITH WIER WILL MONITOR FLOW.

SEE SHEET 2 FOR DETAILS OF POND'S OUTLET STRUCTURE AND 2'X2' BOX CONDUIT.

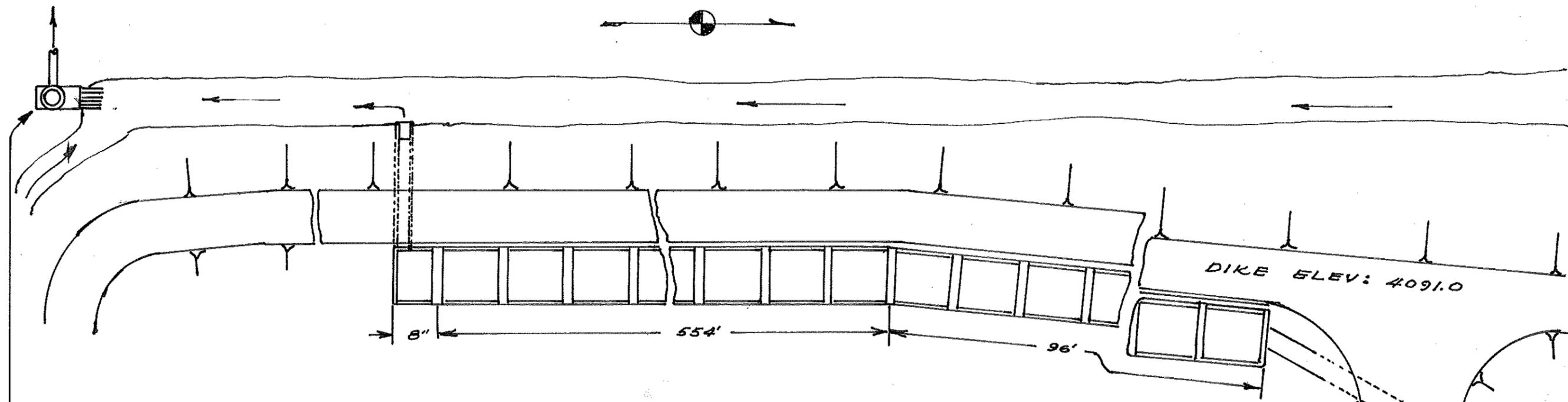
12" A.C. PIPE
 EACH POND.

CHLORINE SOLUTION LINE

S.W. POND
 NORMAL ELEVATION: 4088.5



SOUTH SUBURBAN SANITARY DISTRICT
 KLAMATH COUNTY, OREGON
 CHLORINATION BASIN
 DRAWN: M.D.G. REVISED
 CHECKED: SHEET 2 OF 6



PUMP CARRIES EFFLUENT AND SURFACE WATER FROM AREA SURROUNDING PONDS ACROSS RAILROAD FILL TO MAIN BODY OF LAKE EWAUNA AND KLAMATH RIVER.

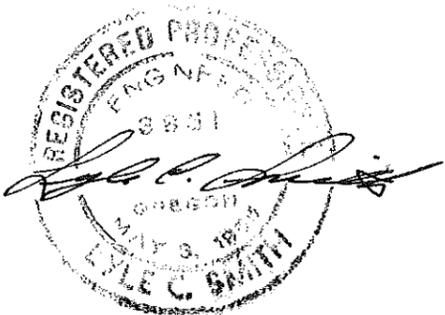
PUMP, NOW IN OPERATION, IS PERMANENTLY MOUNTED TO OPERATE ON FLOAT SWITCH. DISCHARGES INTO 16" PIPE.

CHLORINATING BASIN, 650' IN LENGTH, WILL HOLD 99,000 GALLONS - TO RETAIN FLOW OF 2,360,000 GALLONS PER DAY AS PERMITTED WITH LAGOON ACREAGE NOW IN USE. MEASURING WIER, IN END OF BASIN, SEE SHEET #5, WILL DETERMINE VOLUME OF DISCHARGE.

BOX CONDUIT, SIZE: 2' X 2', DELIVERS EFFLUENT FROM TWO WEST PONDS TO BASIN. SEE SHEET #3 FOR DETAILS.

CHLORINE SOLUTION LINE

S.W. POND
NORMAL SURFACE ELEV: 4088.5



SOUTH SUBURBAN SANITARY DISTRICT
KLAMATH COUNTY, OREGON
CHLORINATION BASIN
DRAWN: M.D.G.
CHECKED: L.C.S.
SHEET 2 OF 6