

SECTION D (6/9)
3/8" = 1'-0"

WALL REINFORCING ELEVATION H (6/9)
3/8" = 1'-0"

DETAIL 1 (6/9)
N T S



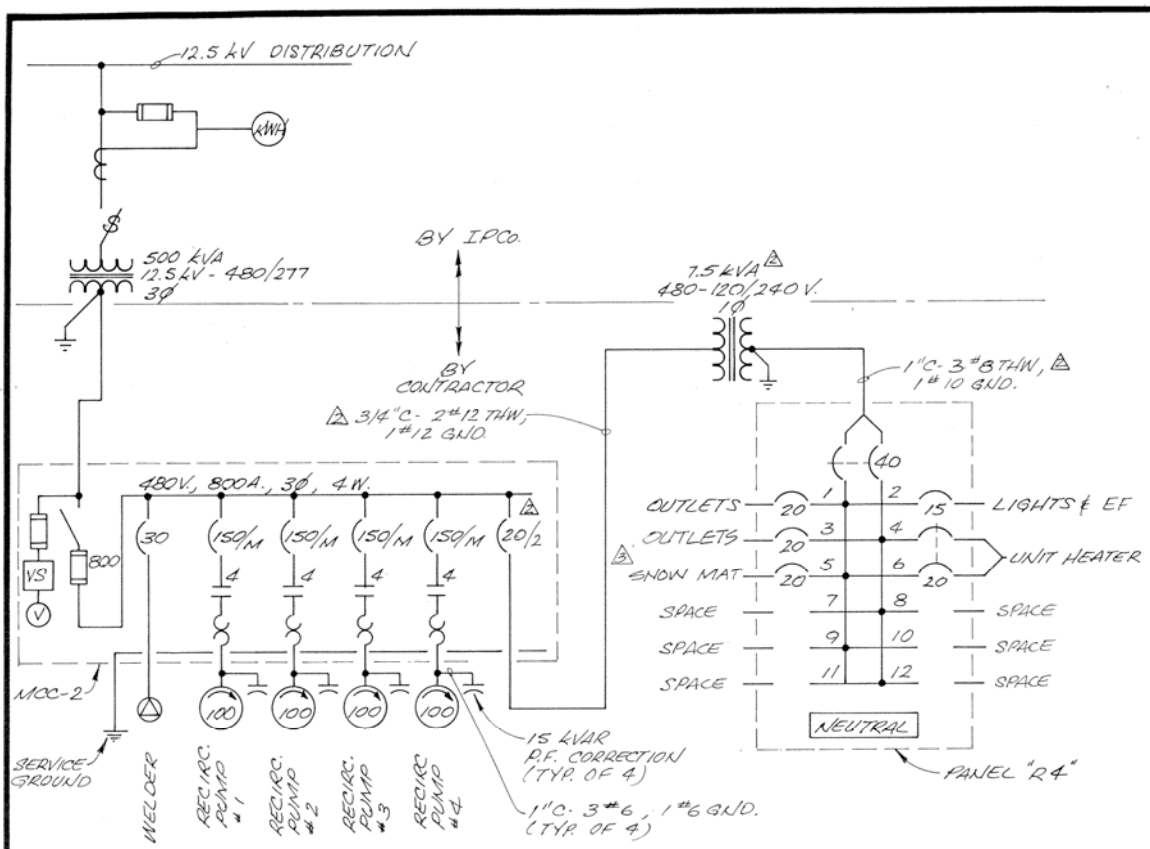
DES. JSCL	DR. RJKE	CHK. LRTR	APPD. MEFM	NO. 6-80	DATE 12/14/78	REVISION	RECORD DRAWING	ADDENDUM NO. 1	KIDM/LJST	KIDM/EDPR	BY	APPD.
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WASTEWATER TREATMENT PLANT
CITY OF NAMPA, IDAHO
PHASE I

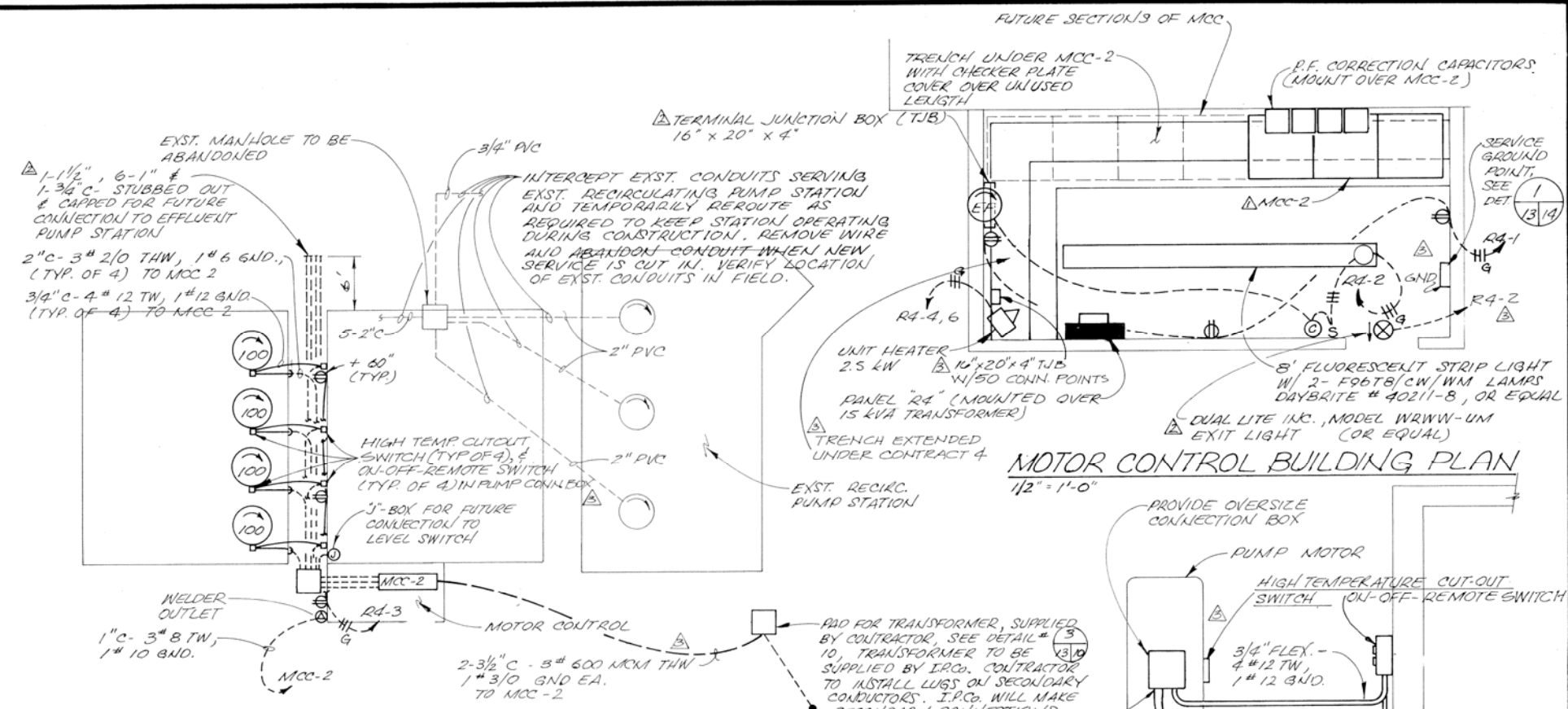
RECIRCULATION PUMP STATION
SECTIONS

SHEET 9
OF 15
DATE DEC 1978
DWG. NO. B9821-1

06-00051

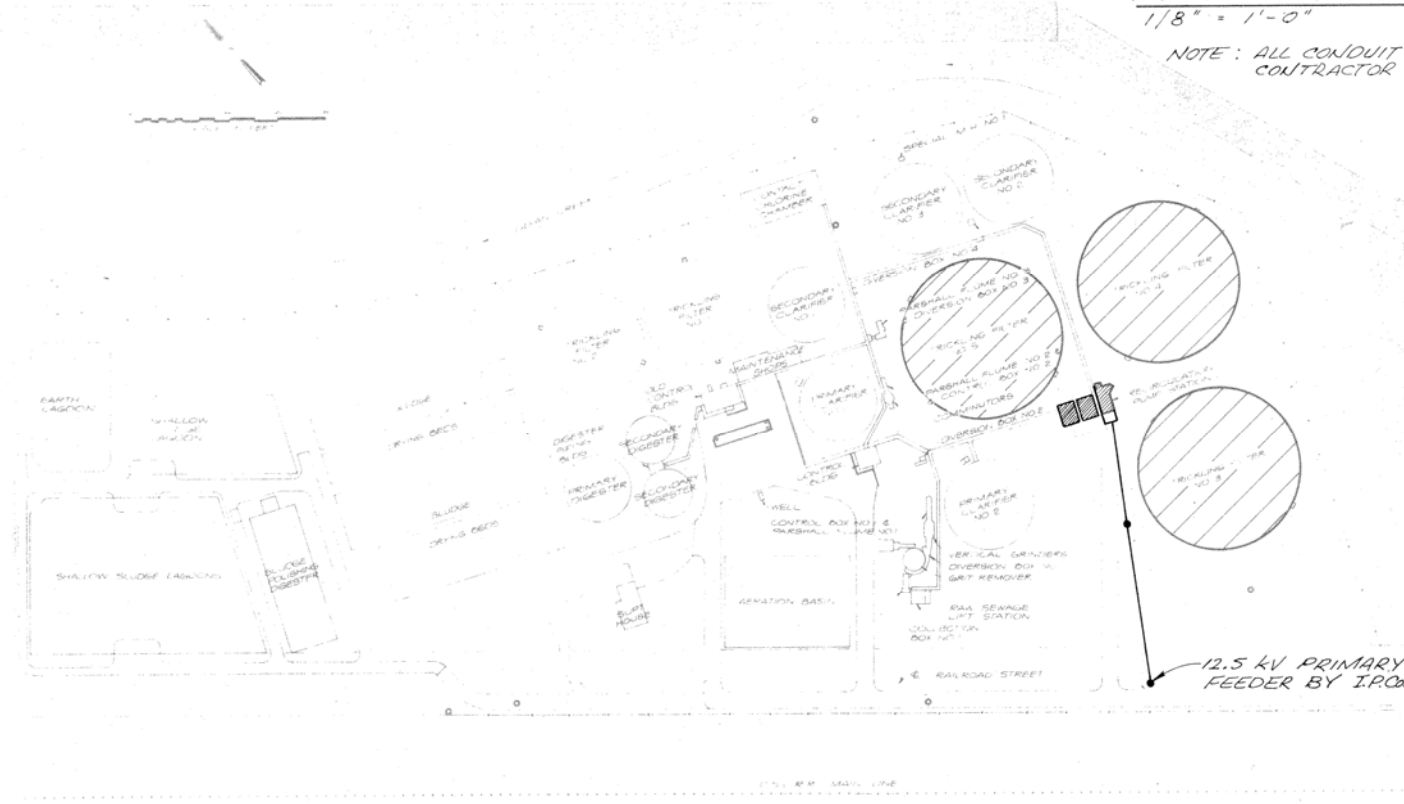


ONE-LINE DIAGRAM

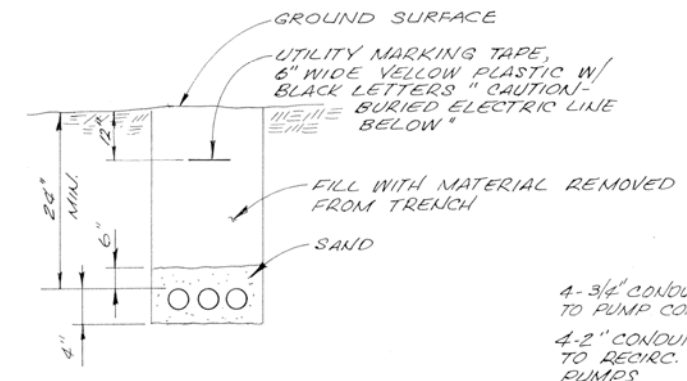


RECIRCULATING PUMP STATION PLAN

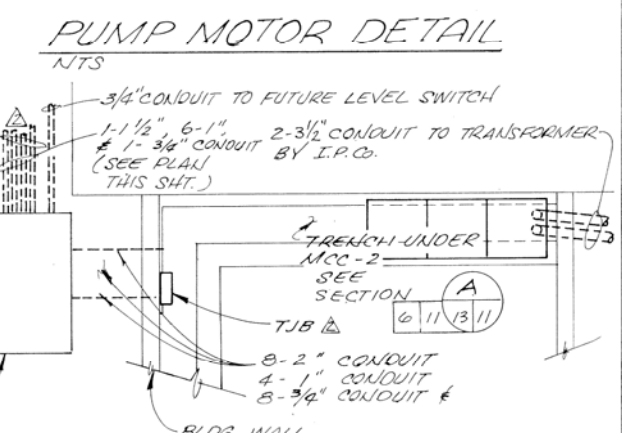
NOTE: ALL CONDUIT & CONDUCTORS TO BE INSTALLED BY CONTRACTOR EXCEPT AS OTHERWISE INDICATED.



EXISTING GENERAL PLANT LAYOUT



TYPICAL UNDERGROUND DUCT DETAIL



HANDHOLE & MCC TRENCH DETAIL



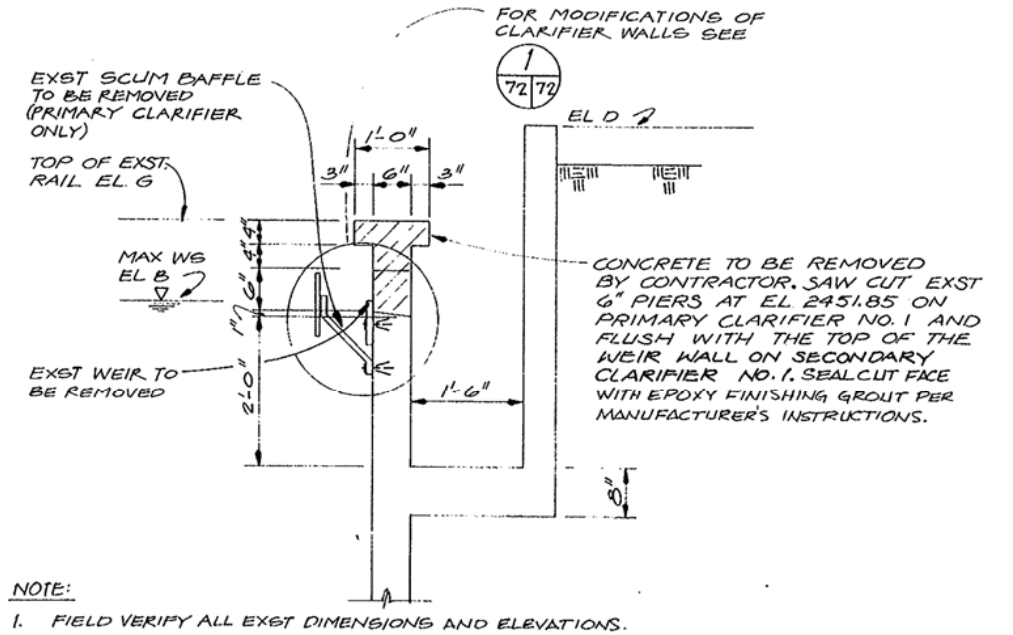
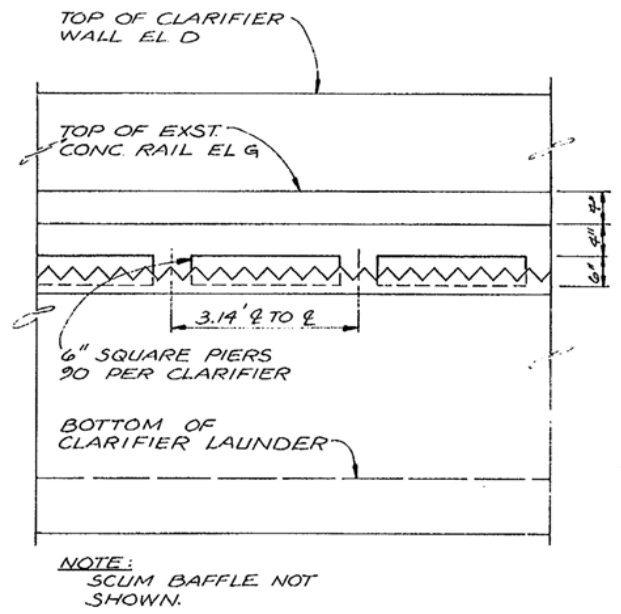
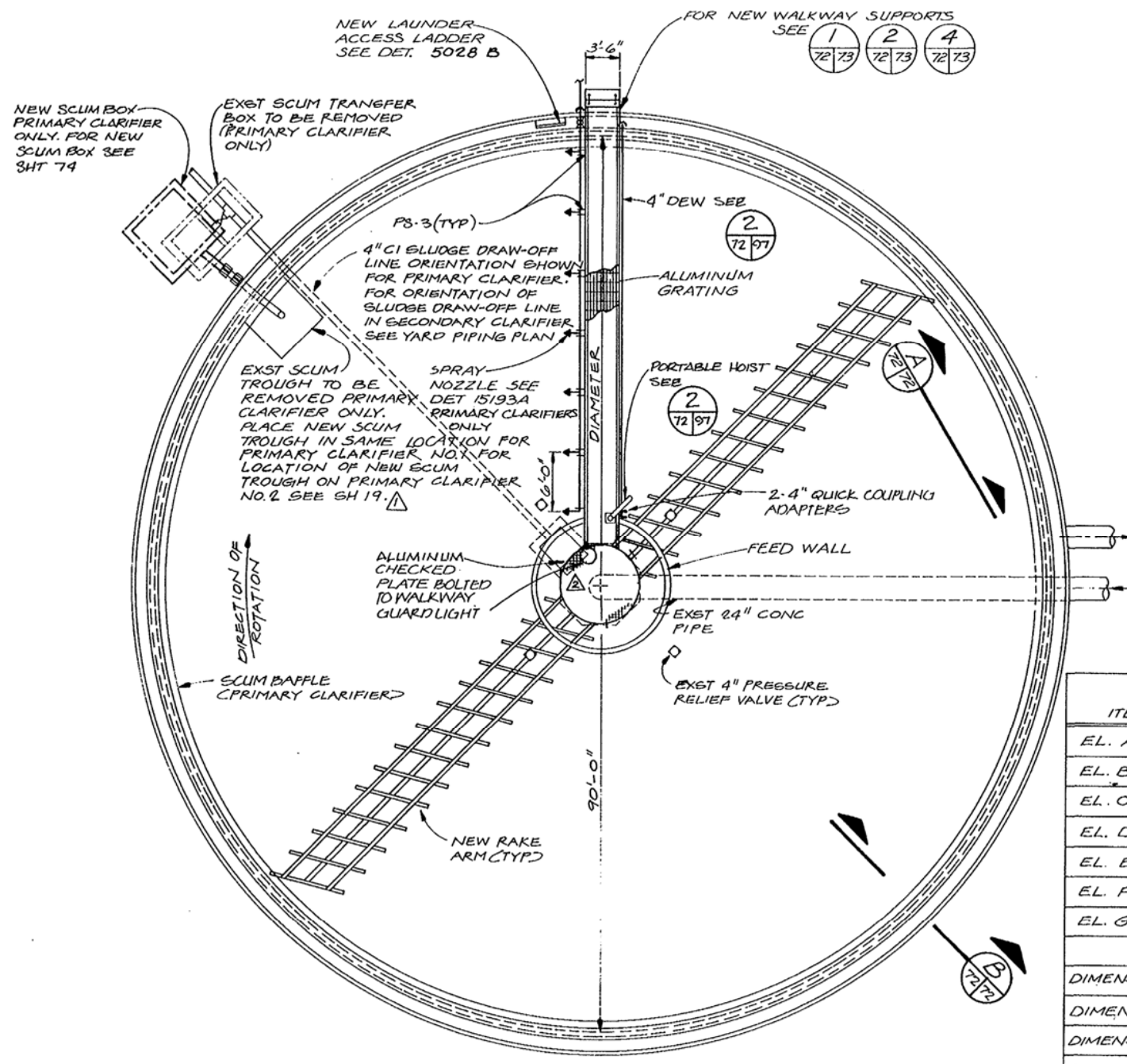
DES. JLHL	6-80	RECORD DRAWING	KIDM LIST
DR. RHSP	3/79	CHANGE ORDER #1	RHS JLH
CHK. JFTR	12/78	APPENDIX #1	RHS JLH
APPD.	NO. DATE	REVISION	BY APPD.

WASTEWATER TREATMENT PLANT
CITY OF NAMPA, IDAHO
PHASE I

ELECTRICAL DETAILS

SHEET	13
OF	15
DATE	DEC 1978
DWG. NO.	B9821-1

06-00051



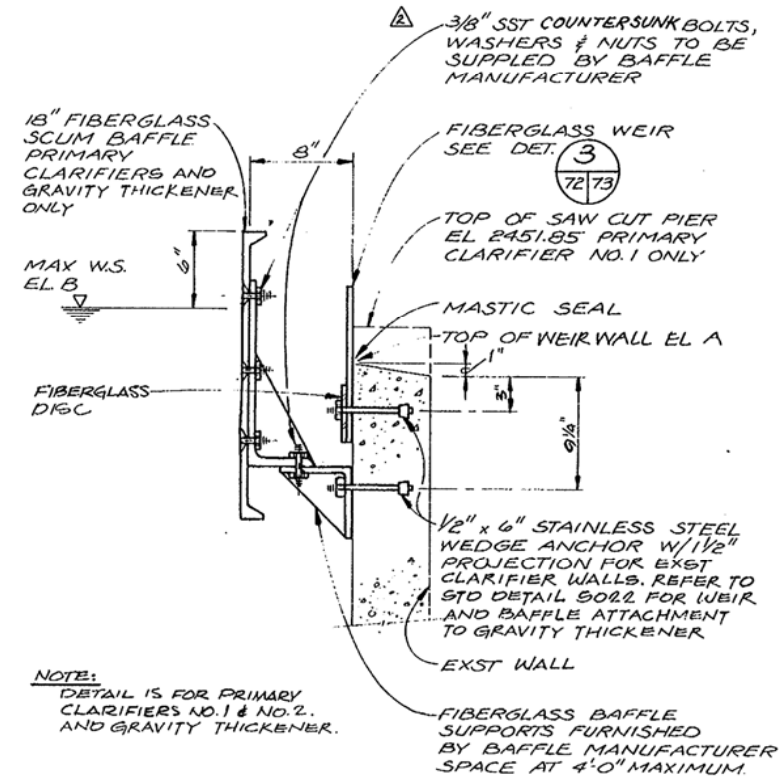
ELEVATION A
NTS

SECTION B
NTS

ITEM	PRIMARY CLARIFIER NO. 1	PRIMARY CLARIFIER NO. 2	SECONDARY CLARIFIER NO. 1	SECONDARY CLARIFIER NO. 2	SECONDARY CLARIFIER NO. 3	GRAVITY THICKENER
EL. A*	2451.60	2451.55	2449.80	2449.25	2449.42	2456.36
EL. B	2452.15	2451.91	2450.03	2449.89	2449.89	2456.55
EL. C	2452.00	2451.75	2449.90	2449.75	2449.75	2456.46
EL. D*	2454.00	2455.25	2453.25	2453.25	2453.25	2468.78
EL. E	2442.13	2441.75	2440.38	2439.75	2439.75	—
EL. F	2438.55	2437.77	2436.80	2435.77	2435.77	—
EL. G*	2452.75	—	2451.00	—	—	—
DIMENSION 1	3'	3'	3'	3'	3'	2'
DIMENSION 2	15'	12"	10"	16'	13'	9'
DIMENSION 3	6"	6"	6"	6"	6"	6"
DIMENSION 4	2'-0" MAX	2'-0" MAX	2'-0" MAX	2'-0" MAX	2'-0" MAX	2'-0" MAX
DIMENSION 5	90'	100'	90'	100'	100'	—
REPLACE SCUM BAFFLE	YES	YES	NO	NO	NO	N.A.
REMOVE EXST MECH.	YES	YES	YES	NO	NO	N.A.
INSTALL NEW MECH.	YES	YES	YES	NO	NO	YES

* FIELD VERIFY
NOTE: REFER TO DETAIL 3 FOR WEIR PLATE

WEIR AND SCUM BAFFLE SCHEDULE



MODIFIED CLARIFIER WALL DETAIL 1

PRIMARY AND SECONDARY CLARIFIER NO. 1 REHABILITATION PLAN

1/8" = 1'-0"

NOTES:

- EXISTING CLARIFIER MECHANISM SHALL BE REMOVED FOR SALVAGE (NOT SHOWN)
- EXISTING CLARIFIER DATA:
MANUFACTURER: PROCESS ENGINEERS INC
212 SUTTER ST
SAN FRANCISCO CALIF
TYPE: 90 FT DIA PERIPHERAL DRIVE
MODEL: "Te"
INSTALLATION DATE: 1949
- NEW MECHANISM SHALL BE SIZED TO FIT EXISTING BASINS AS SHOWN. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS IN FIELD.

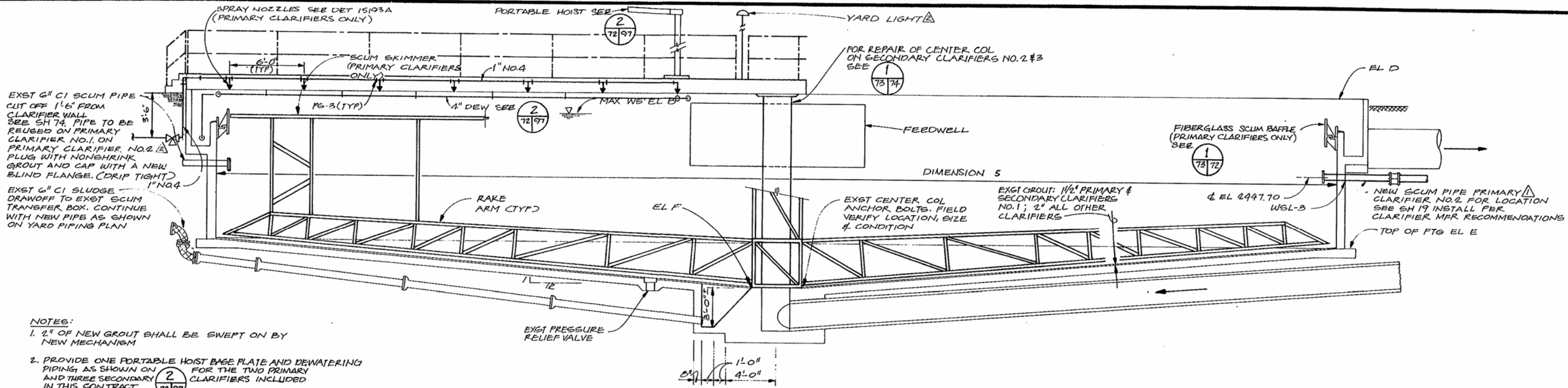


DES. ROPR/LCM	NO.	DATE	REVISION	BY	APPD.
DR. LEWS	10/81	5/79	RECORD DRAWING APPENDUM NO. 2	MLW	LJB
CHK. ELSR				LEW	LJB
APPD. LBT					

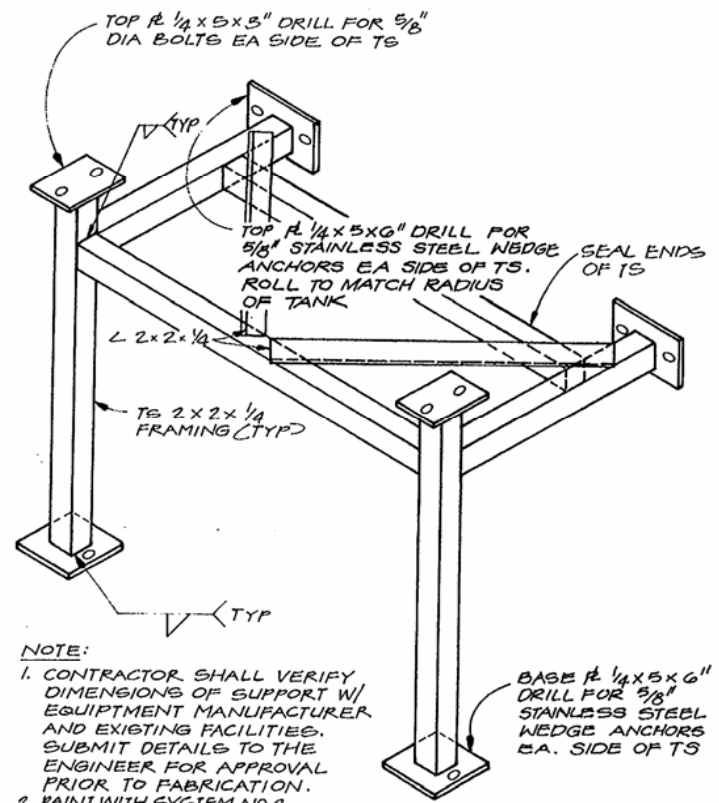
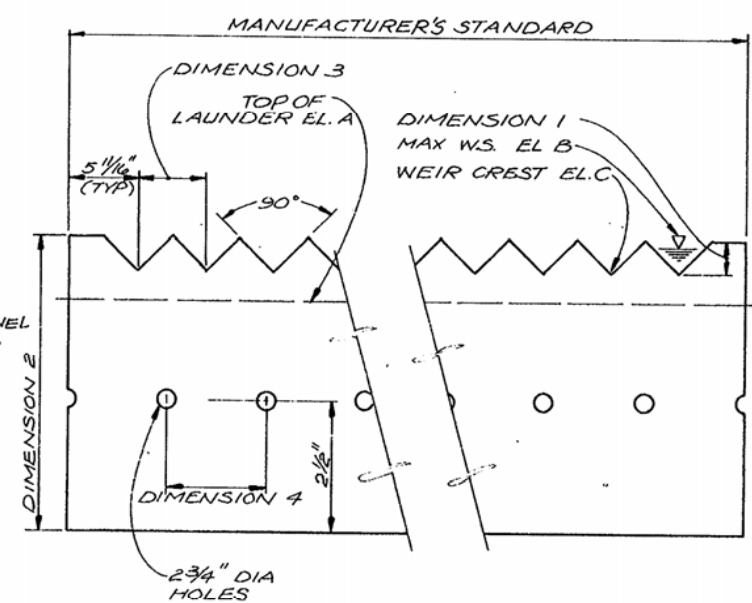
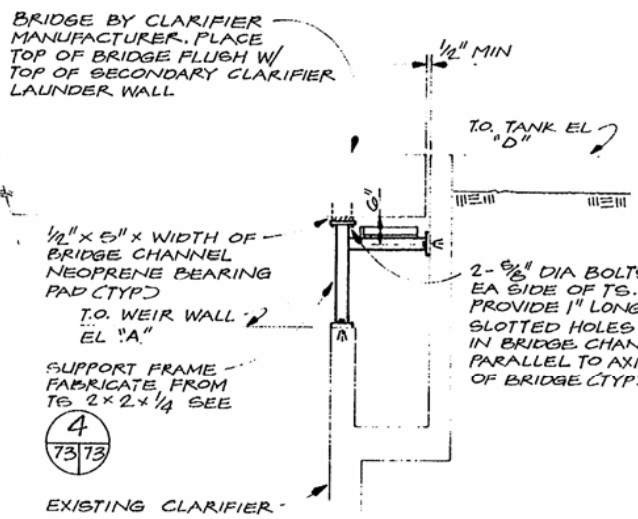
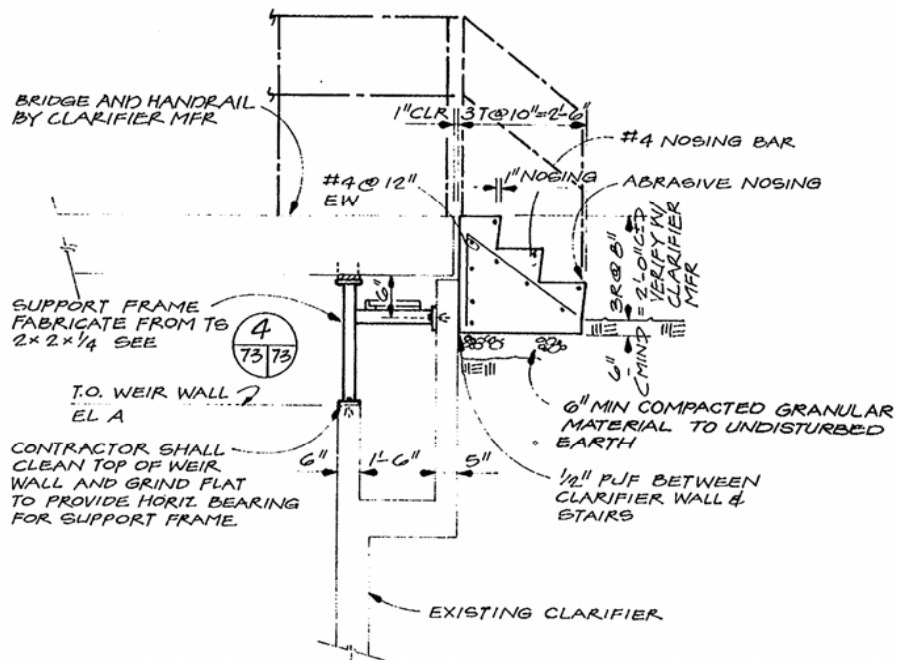
WASTEWATER TREATMENT PLANT
CITY OF NAMPA, IDAHO
CONTRACT 4

CLARIFIER MODIFICATIONS
EXISTING PRIMARY AND SECONDARY NO. 1 - PLAN AND DETAILS

SHEET 72
OF
DATE MAR. 1979
DWG. NO. C9821.2B



COMPOSITE CLARIFIER SECTION
1/4" = 1'-0"



PRIMARY CLARIFIER 1 (72/73)

SECONDARY CLARIFIER 2 (72/73)

WEIR PLATE DETAIL 3 (98/72/73)

BRIDGE SUPPORT DET 4 (73/72/73)

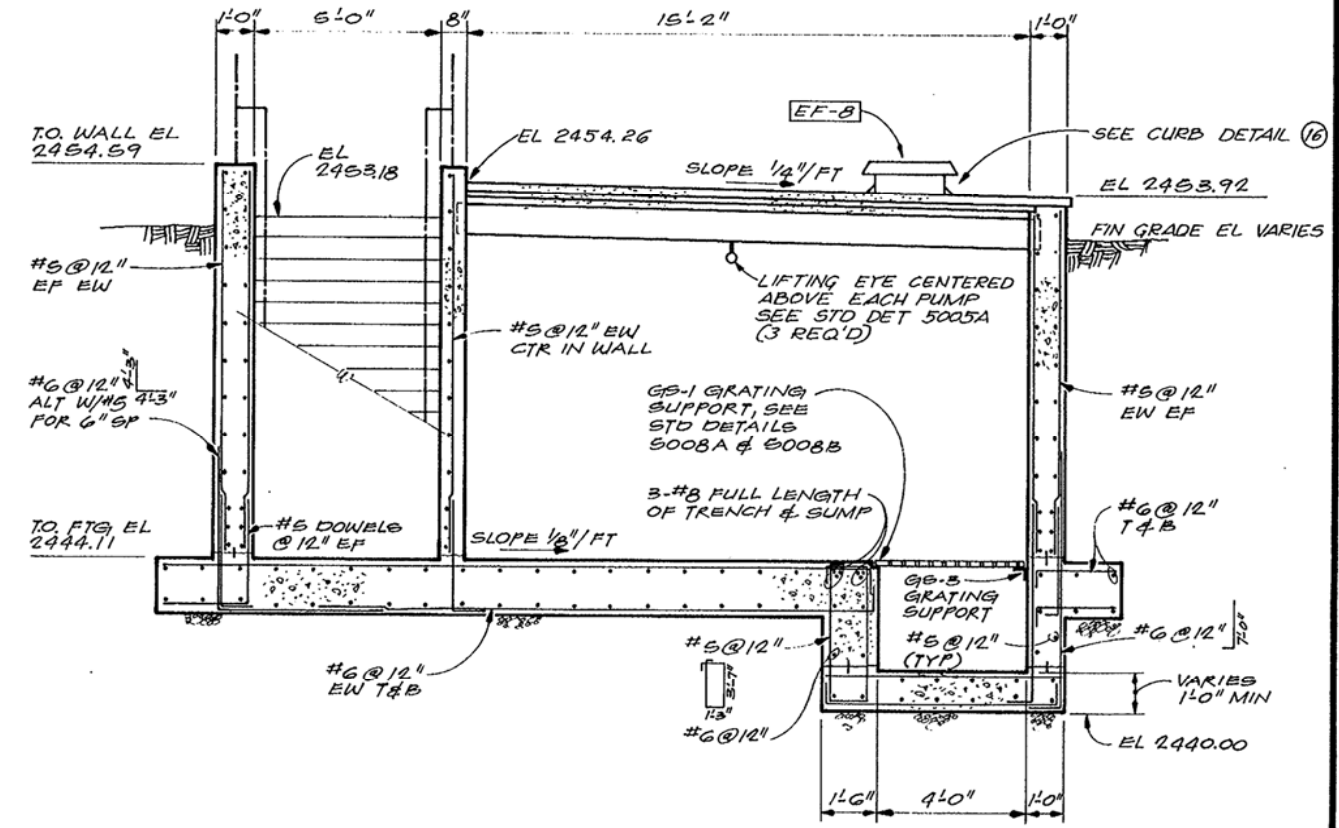
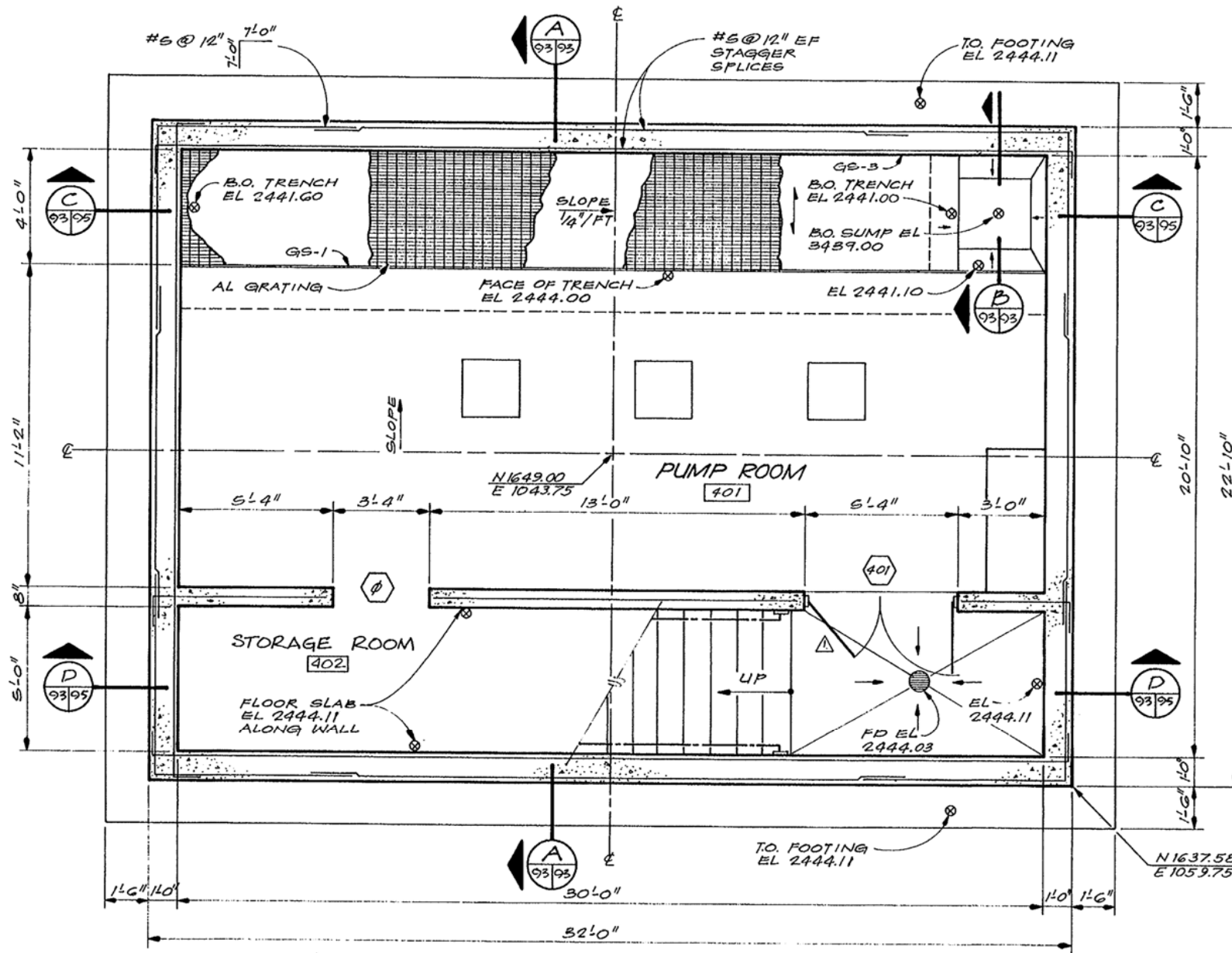


CH2M HILL	DES. RDP/LCM	10/81	RECORD DRAWING	MLW	LJB									
	DR. LEWS					5/79	ADDENDUM NO. 2	RDP	LJB					
	CHK. ELSR									NO.	DATE	REVISION	BY	APPD.
	APPD. LJB													

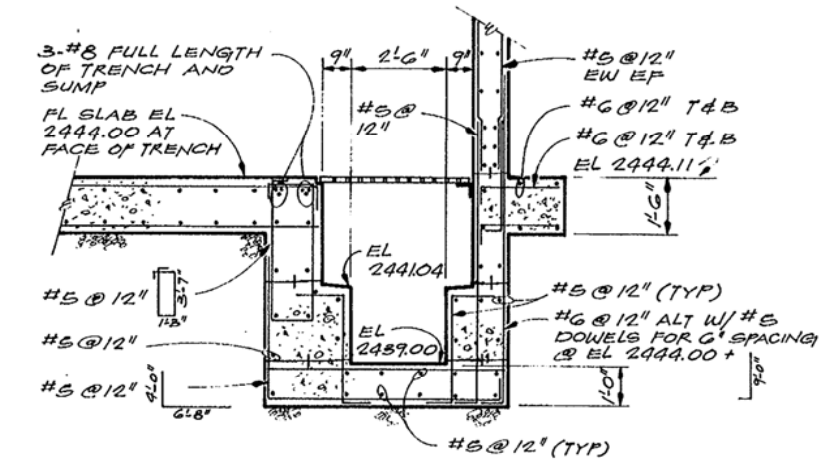
WASTEWATER TREATMENT PLANT
CITY OF NAMPA, IDAHO
CONTRACT 4

CLARIFIER MODIFICATIONS
CLARIFIER SECTIONS AND DETAILS

SHEET **73**
OF
DATE MAR. 1979
DWG. NO. C9821.2B



SECTION A
3/8" = 1'-0"
94 93 93



SECTION B
3/8" = 1'-0"
93 93

- NOTES:**
1. CONTRACTOR SHALL NOT BACKFILL STRUCTURE UNTIL PRECAST DOUBLE TEES HAVE BEEN PLACED AND THE TOPPING SLAB AND WEARING SURFACE HAVE REACHED THEIR MINIMUM SPECIFIED 28 DAY COMPRESSIVE STRENGTH.
 2. CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL SHEETS AND THE EQUIPMENT MANUFACTURERS FOR THE SIZE AND LOCATION OF ALL FLOOR SLAB AND WALL PENETRATIONS AND MECHANICAL EQUIPMENT PADS.

**SECONDARY SLUDGE PUMP STATION
FOUNDATION AND FLOOR PLAN**
3/8" = 1'-0"

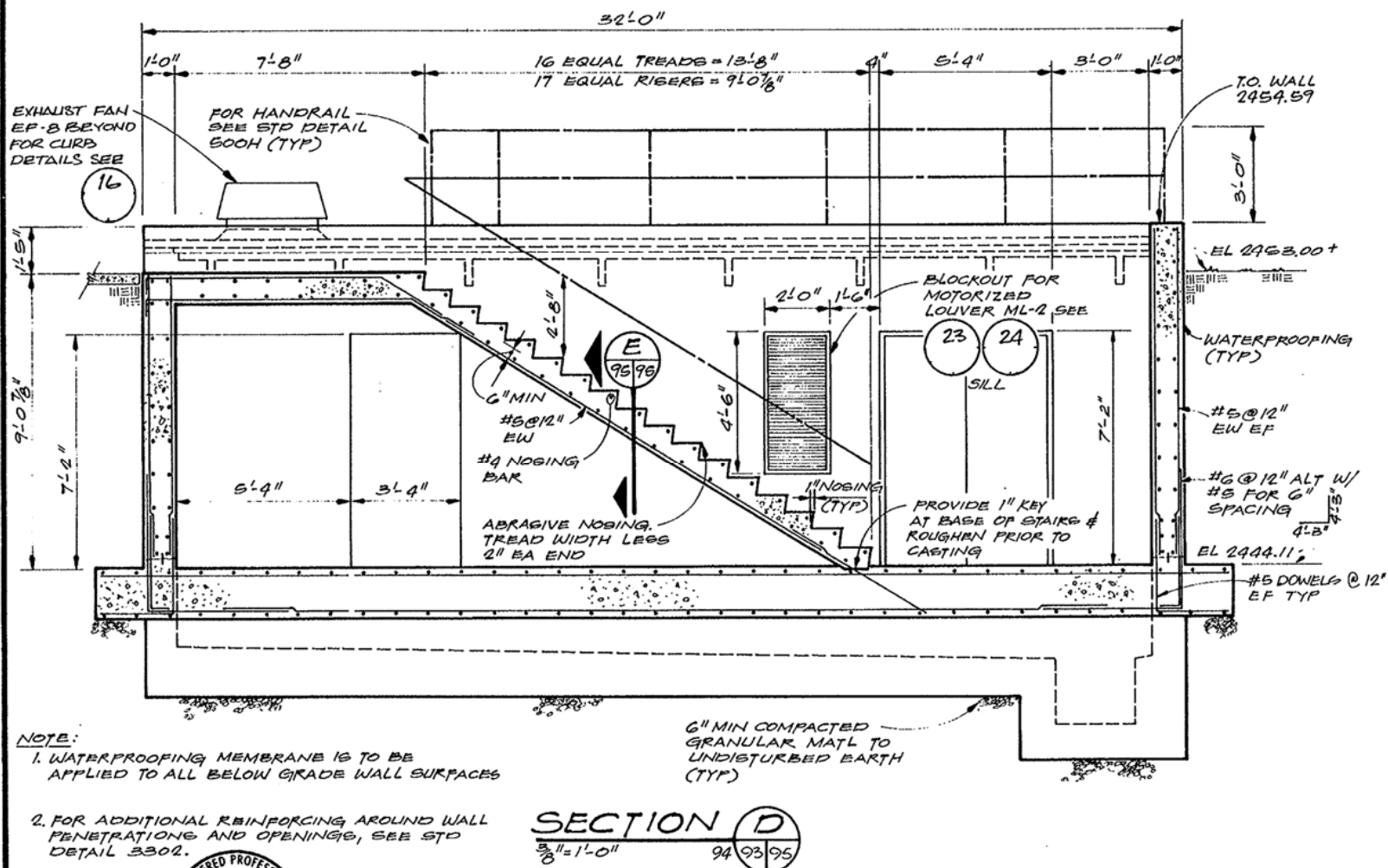
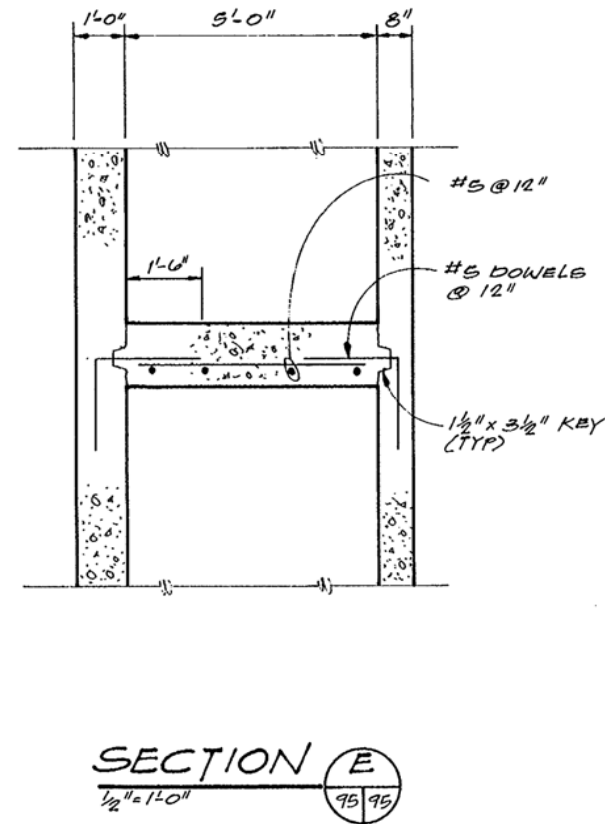
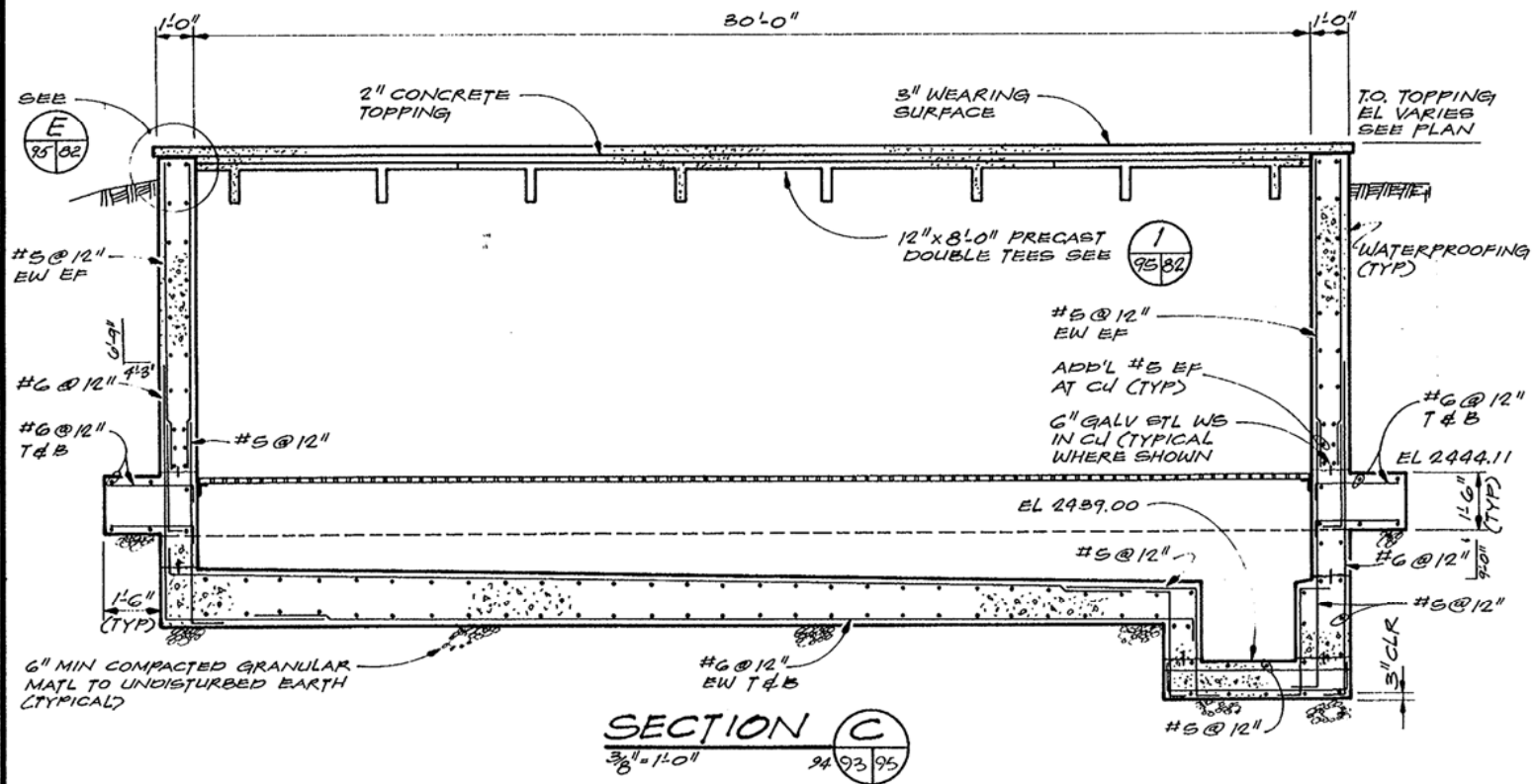


CH2M HILL	DES. JOHN	NO. 11/81	DATE	REVISION	MLW	LJB
	DR. LEWS					
	CHK. MEFM					
	APPD. LJB					

WASTEWATER TREATMENT PLANT
CITY OF NAMPA, IDAHO
CONTRACT 4

SECONDARY SLUDGE PUMP STATION
FLOOR AND FOUNDATION PLAN

SHEET **93**
OF
DATE MAR. 1979
DWG. NO. C9821.2B



- NOTE:
1. WATERPROOFING MEMBRANE IS TO BE APPLIED TO ALL BELOW GRADE WALL SURFACES
 2. FOR ADDITIONAL REINFORCING AROUND WALL PENETRATIONS AND OPENINGS, SEE STD DETAIL 3302.

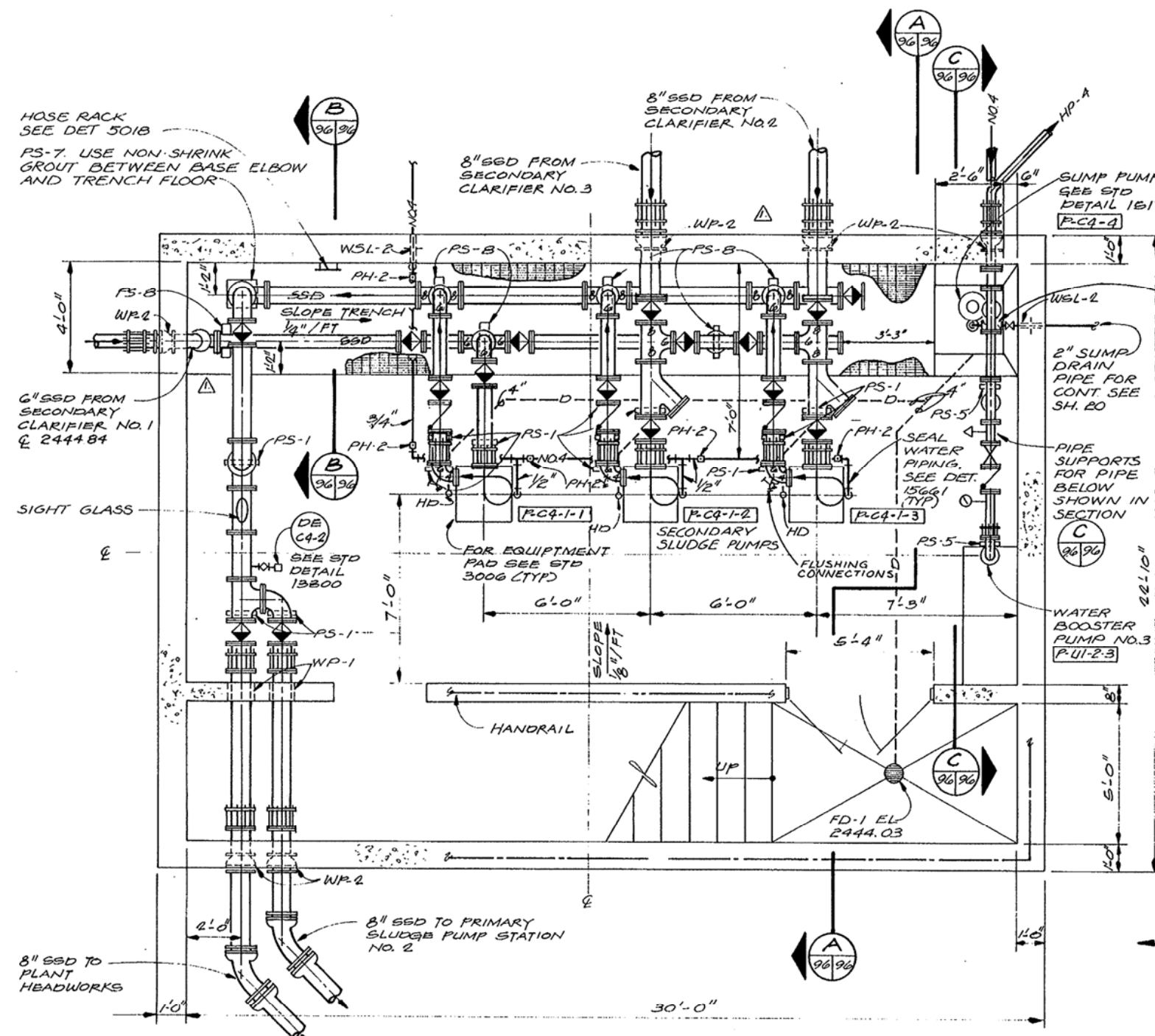


DES. JDHN					
DR. LEWG					
CHK. MEFM	11/81	RECORD DRAWING		MLW	LJB
APPD. LJB	NO.	DATE	REVISION	BY	APPD.

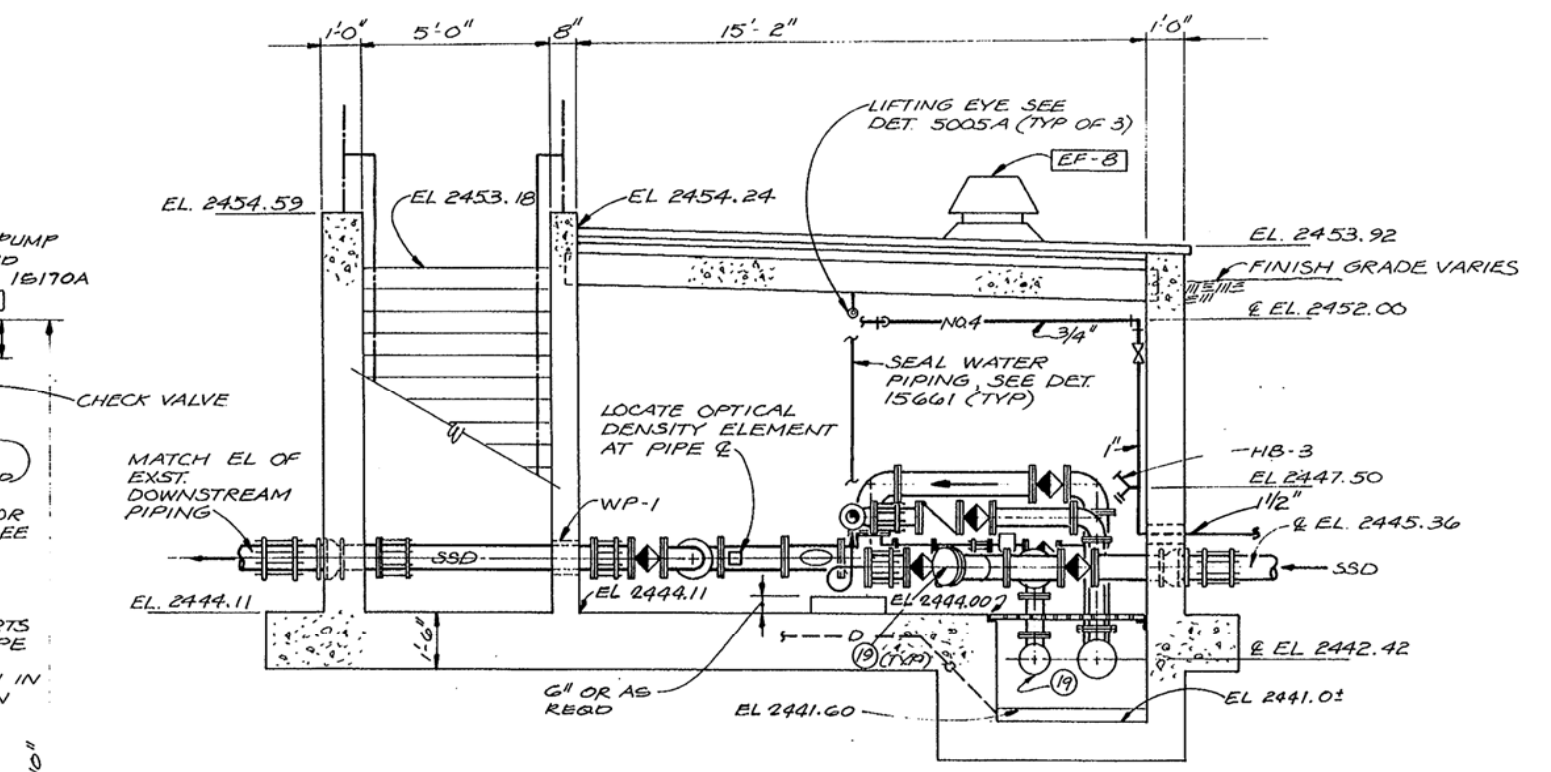
WASTEWATER TREATMENT PLANT
CITY OF NAMPA, IDAHO
CONTRACT 4

SECONDARY SLUDGE PUMP STATION
STRUCTURAL - SECTIONS

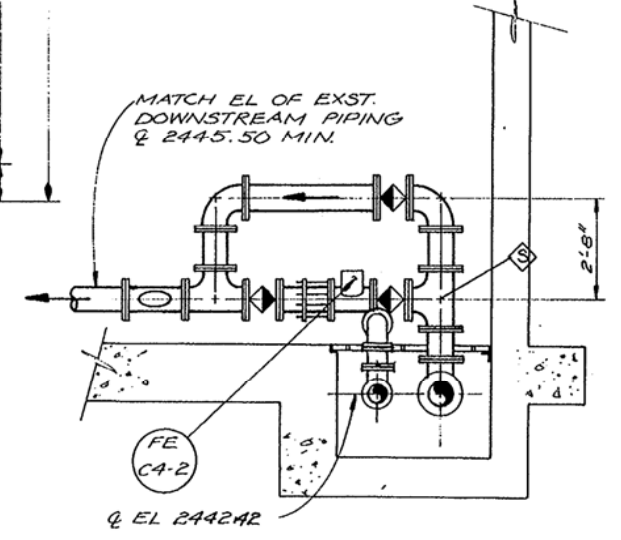
SHEET **95**
OF
DATE MAR. 1979
DWG. NO. C9821.2B



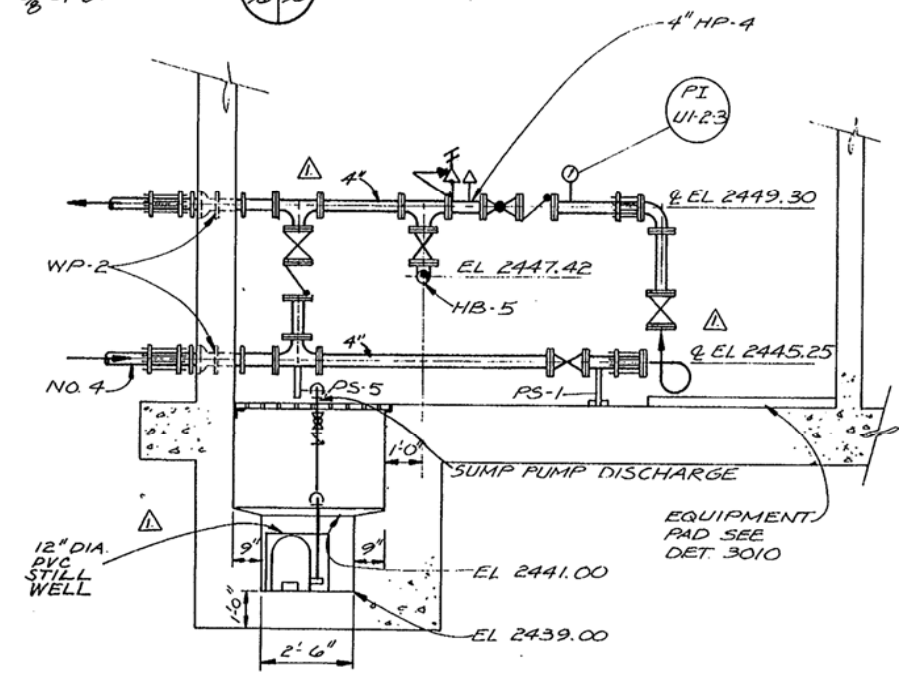
SECONDARY SLUDGE PUMP STATION - PLAN
 3/8" = 1'-0"



SECTION A
 3/8" = 1'-0"



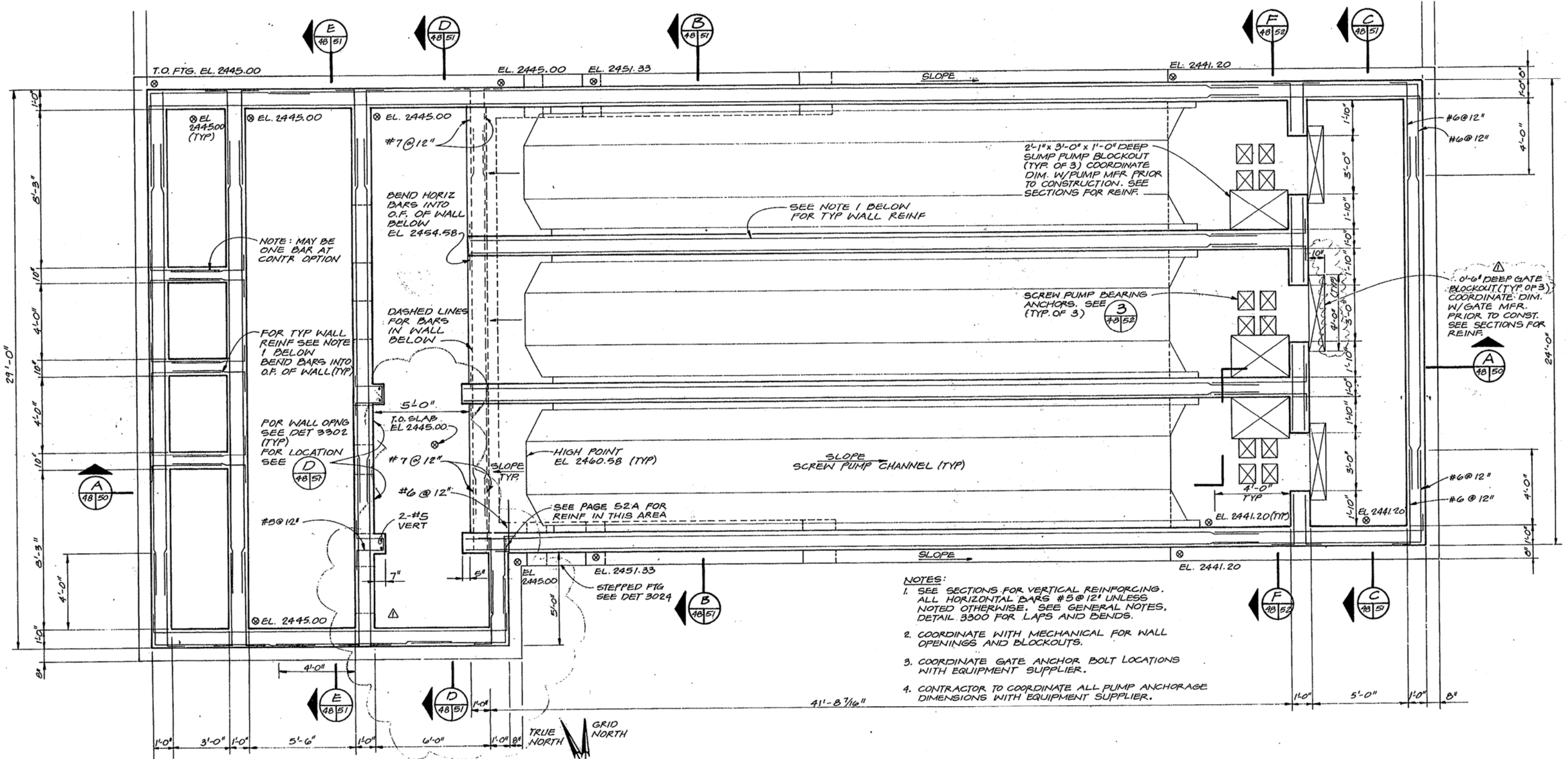
SECTION B
 3/8" = 1'-0"



SECTION C
 3/8" = 1'-0"



CH2M HILL DES. SBAM DR. LEWS CHK. ELS/LJBT APPD. LJBT	NO. 11/81 DATE	RECORD DRAWINGS REVISION	MW LJB BY APPD.	WASTEWATER TREATMENT PLANT CITY OF NAMPA, IDAHO CONTRACT 4	SECONDARY SLUDGE PUMP STATION	SHEET 96 OF
						DATE MAR. 1979 DWG. NO. C9821.2B



- NOTES:
1. SEE SECTIONS FOR VERTICAL REINFORCING. ALL HORIZONTAL BARS #5 @ 12' UNLESS NOTED OTHERWISE. SEE GENERAL NOTES, DETAIL 3300 FOR LAPS AND BENDS.
 2. COORDINATE WITH MECHANICAL FOR WALL OPENINGS AND BLOCKOUTS.
 3. COORDINATE GATE ANCHOR BOLT LOCATIONS WITH EQUIPMENT SUPPLIER.
 4. CONTRACTOR TO COORDINATE ALL PUMP ANCHORAGE DIMENSIONS WITH EQUIPMENT SUPPLIER.

FOUNDATION PLAN
3/8" = 1'-0"

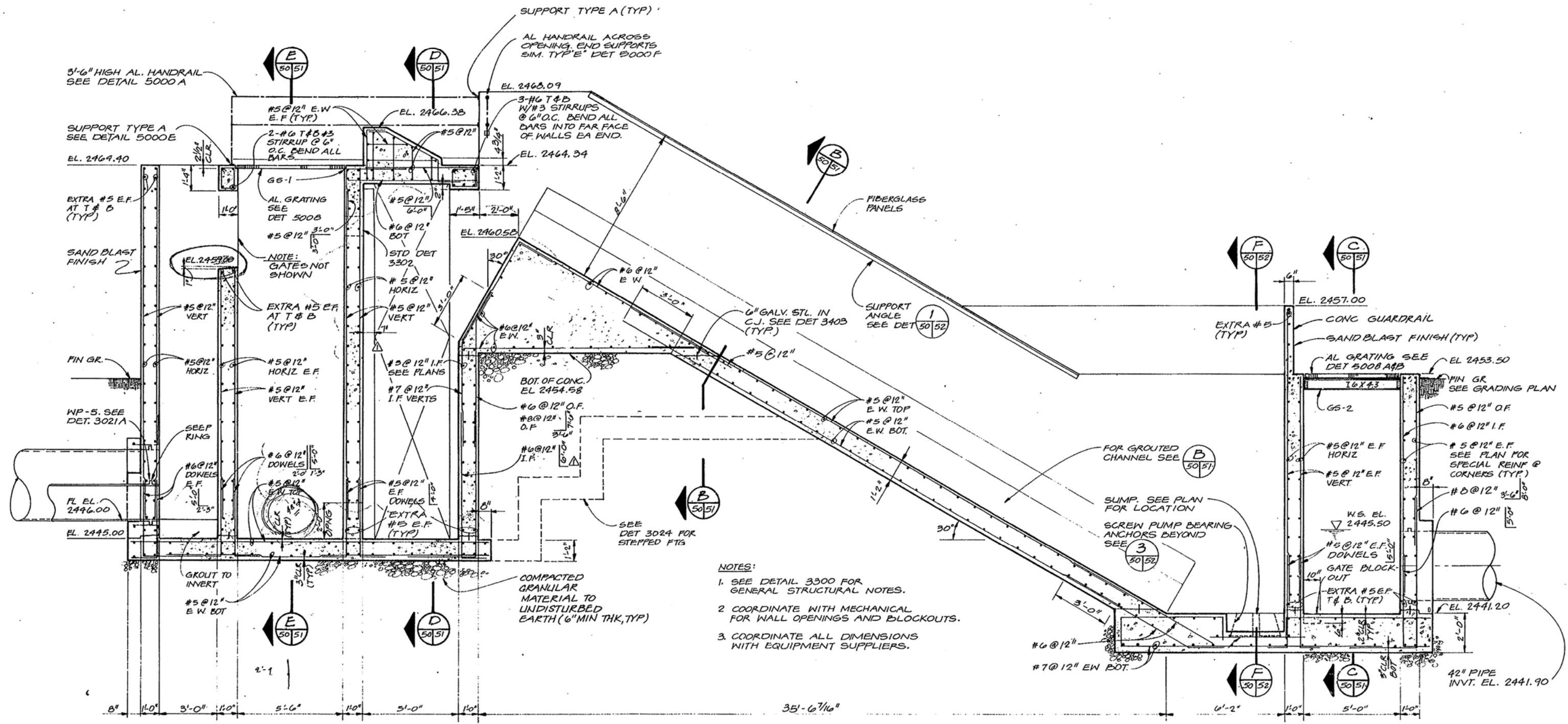
Mark E. Padham
2-2-80

	DES. JDWR						
	DR. KPWN						
	CHK. SCLE						
	APPD. L.J.D.T.						
		NO.	DATE	REVISION	BY	APPD.	
		U-80		CHANGE ORDER PARSHALL FLUME SEPS	JME	LIBT	

WASTEWATER TREATMENT PLANT
CITY OF NAMPA, IDAHO
CONTRACT 5

SECONDARY EFFLUENT PUMP STATION
STRUCTURAL — FOUNDATION PLAN

SHEET **48**
OF
DATE JAN 1980
DWG. C9821.D3
NO.



- NOTES:**
1. SEE DETAIL 3300 FOR GENERAL STRUCTURAL NOTES.
 2. COORDINATE WITH MECHANICAL FOR WALL OPENINGS AND BLOCKOUTS.
 3. COORDINATE ALL DIMENSIONS WITH EQUIPMENT SUPPLIERS.

SECTION A
3/8" = 1'-0"

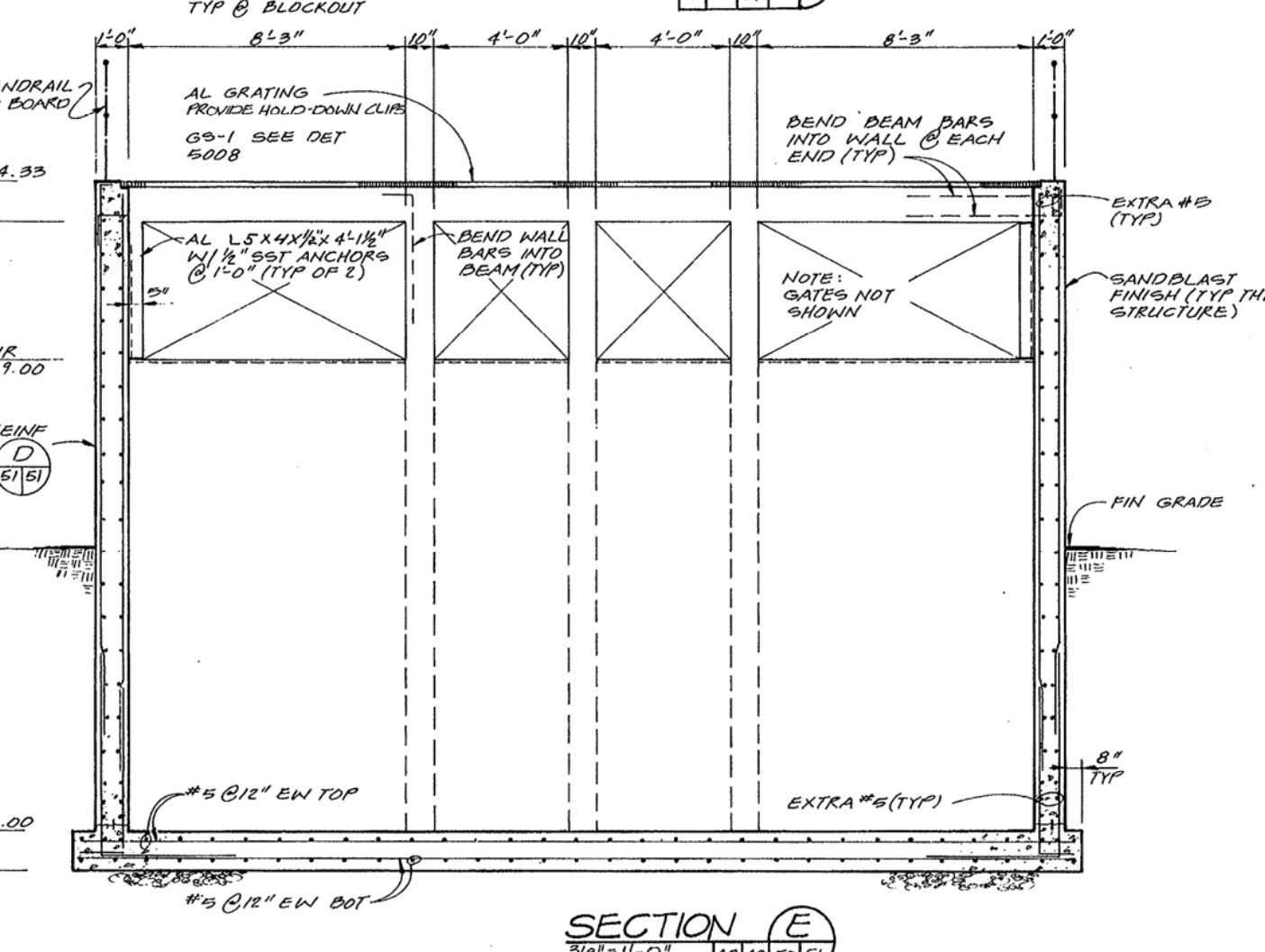
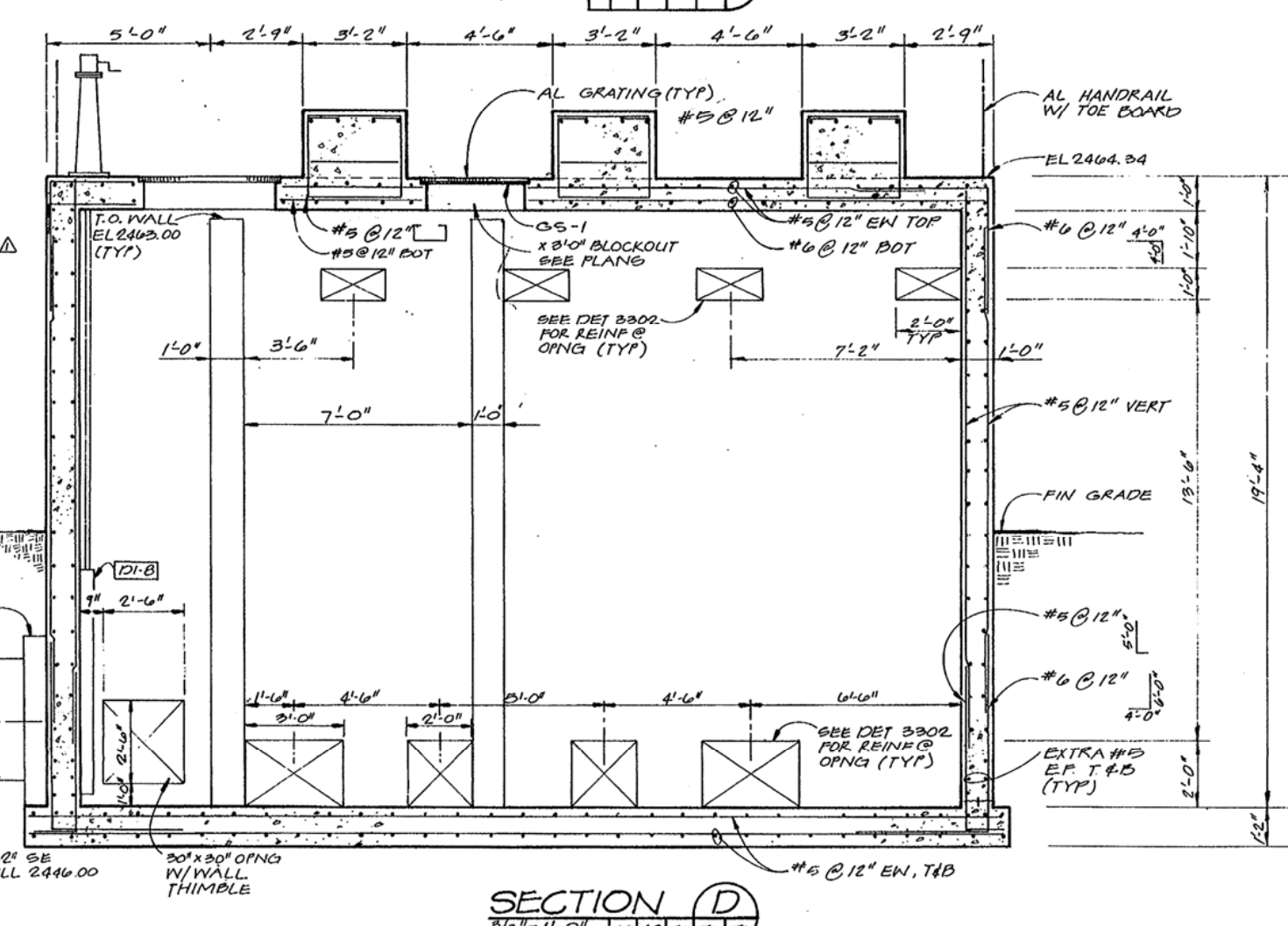
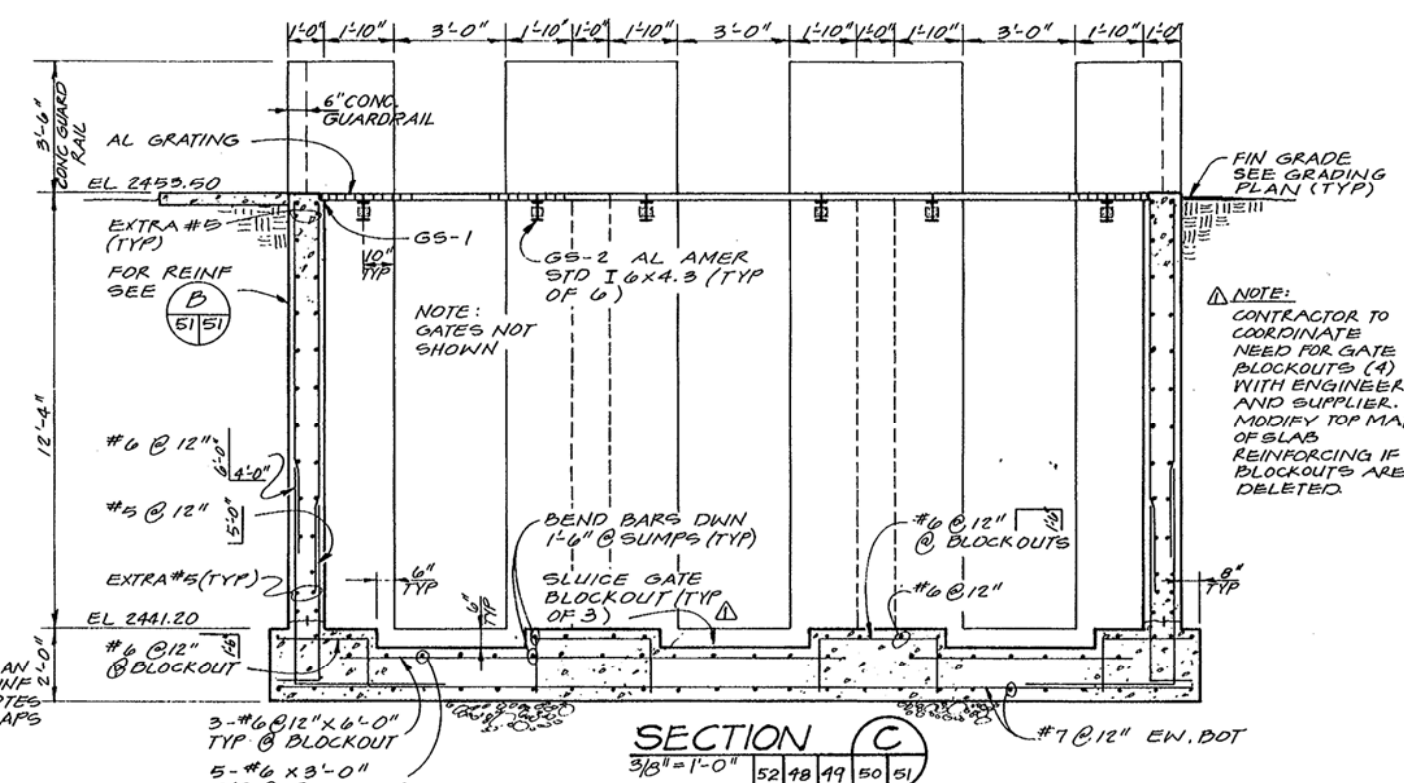
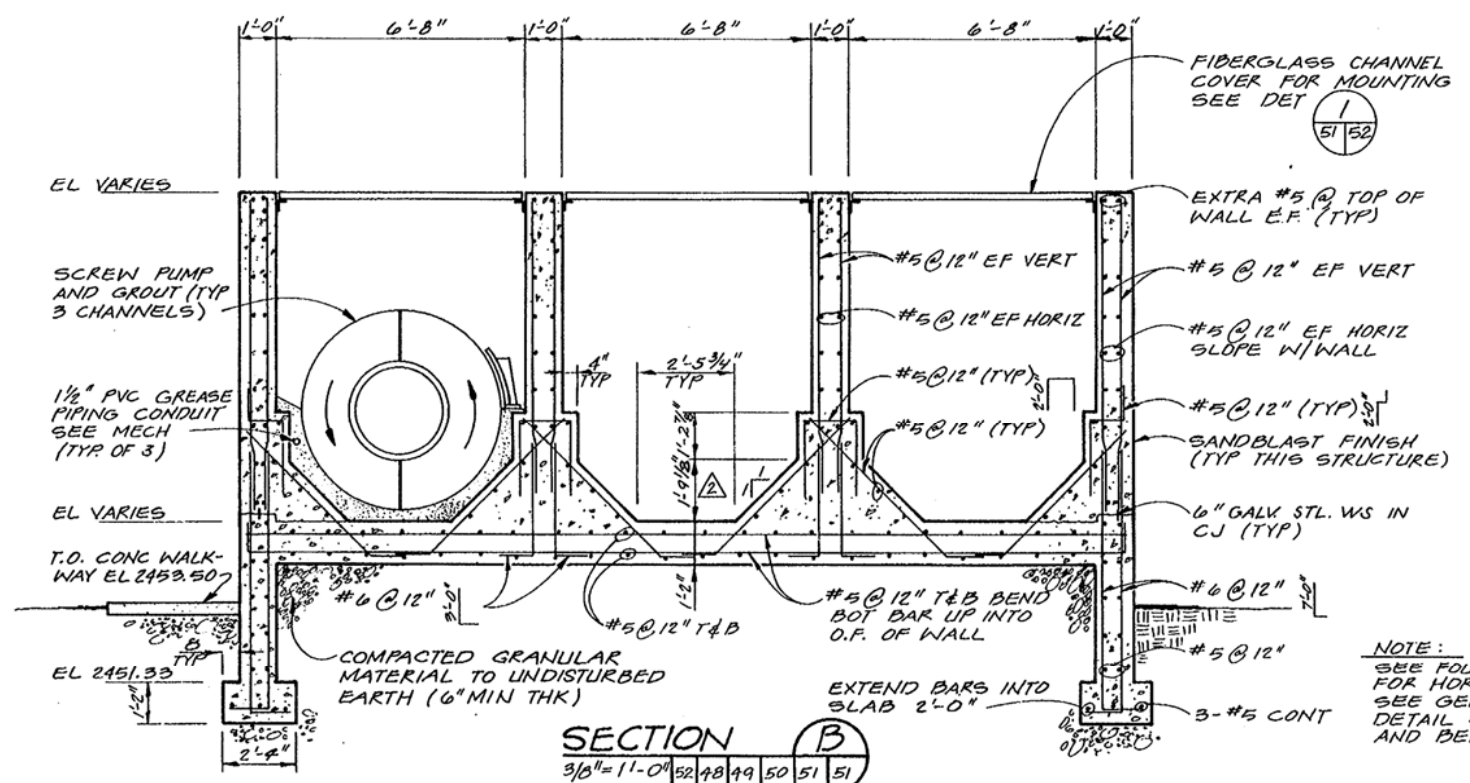
Mark E. Jordanham
2-2-80

	DES. JDNK						
	DR. KPWN						
	CHK. SCLE	8-82	RECORD DRAWINGS				
	APPD. LJB	6-80	CHANGE ORDER PARSHALL PLINE # G.E.P.G.				
	NO.	DATE	REVISION	BY	APPD.		

WASTEWATER TREATMENT PLANT
CITY OF Nampa, IDAHO
CONTRACT 5

SECONDARY EFFLUENT PUMP STATION
STRUCTURAL - SECTION

SHEET	50
OF	
DATE	JAN 1980
DWG. NO.	C9821.D3

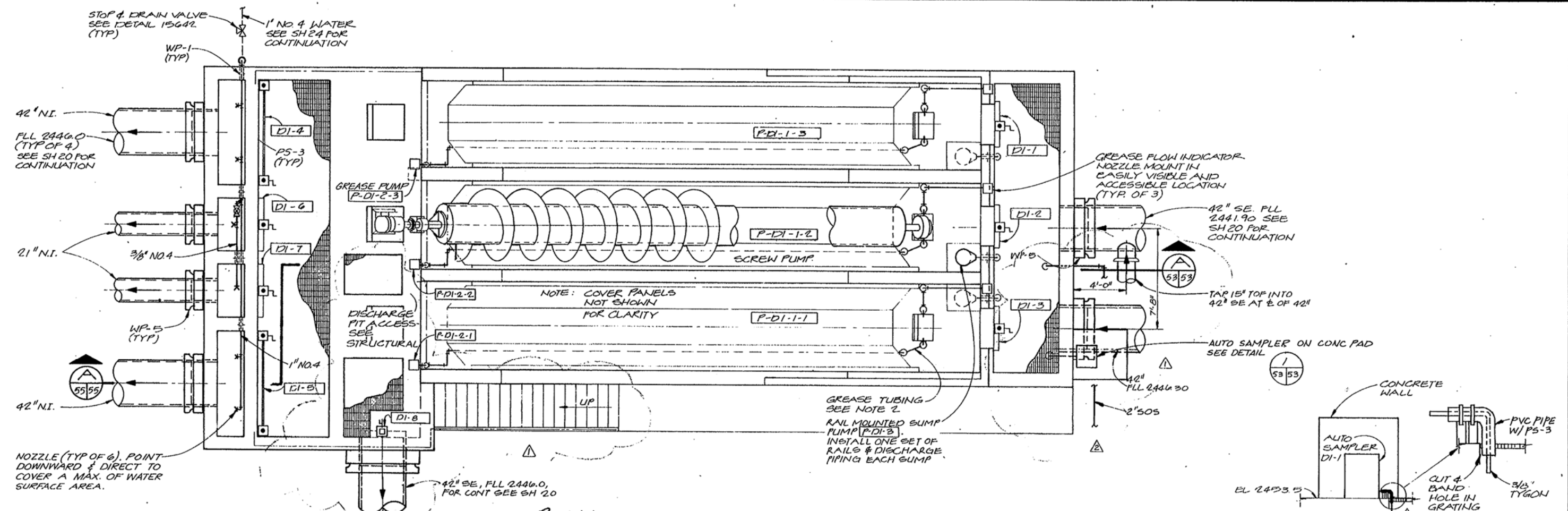
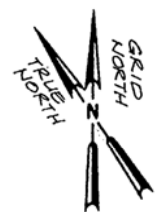


Mack E. Fordham
2-2-80

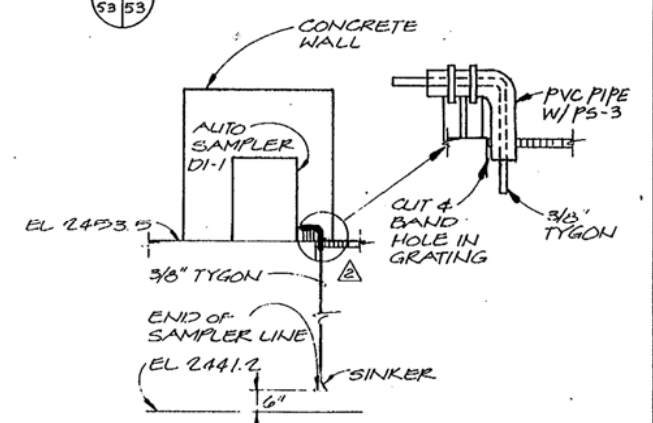
	DES. JDWR	8-82 RECORD DRAWINGS 6-80 CHANGE ORDER PARSHALL FLUME & S.E.P.S.	MLW LJT JME LBT	SHEET 51 OF DATE JAN 1980 DWG. C9821.D3 NO.
	DR. KPWN			
CHK. SCLE	APPD. LJT			

WASTEWATER TREATMENT PLANT
CITY OF NAMPA, IDAHO
CONTRACT 5

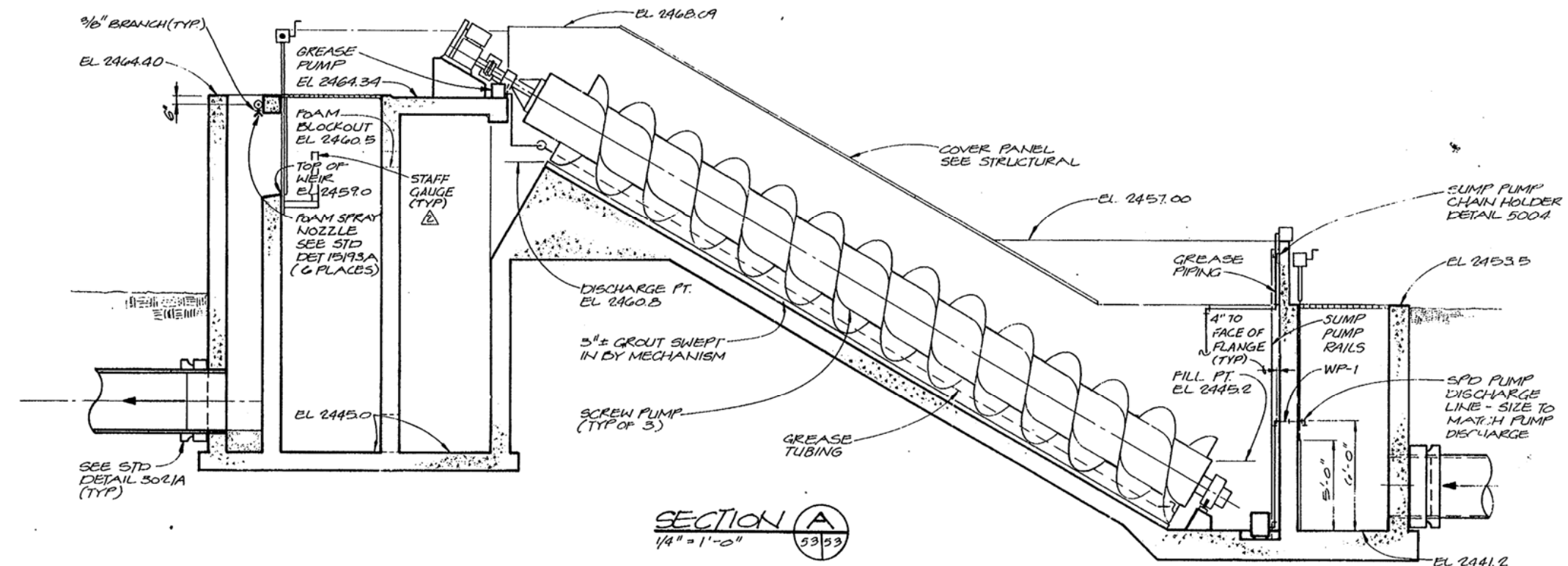
SECONDARY EFFLUENT PUMP STATION
STRUCTURAL - SECTIONS



PLAN
1/4" = 1'-0"



DETAIL 1
NTS 53/53

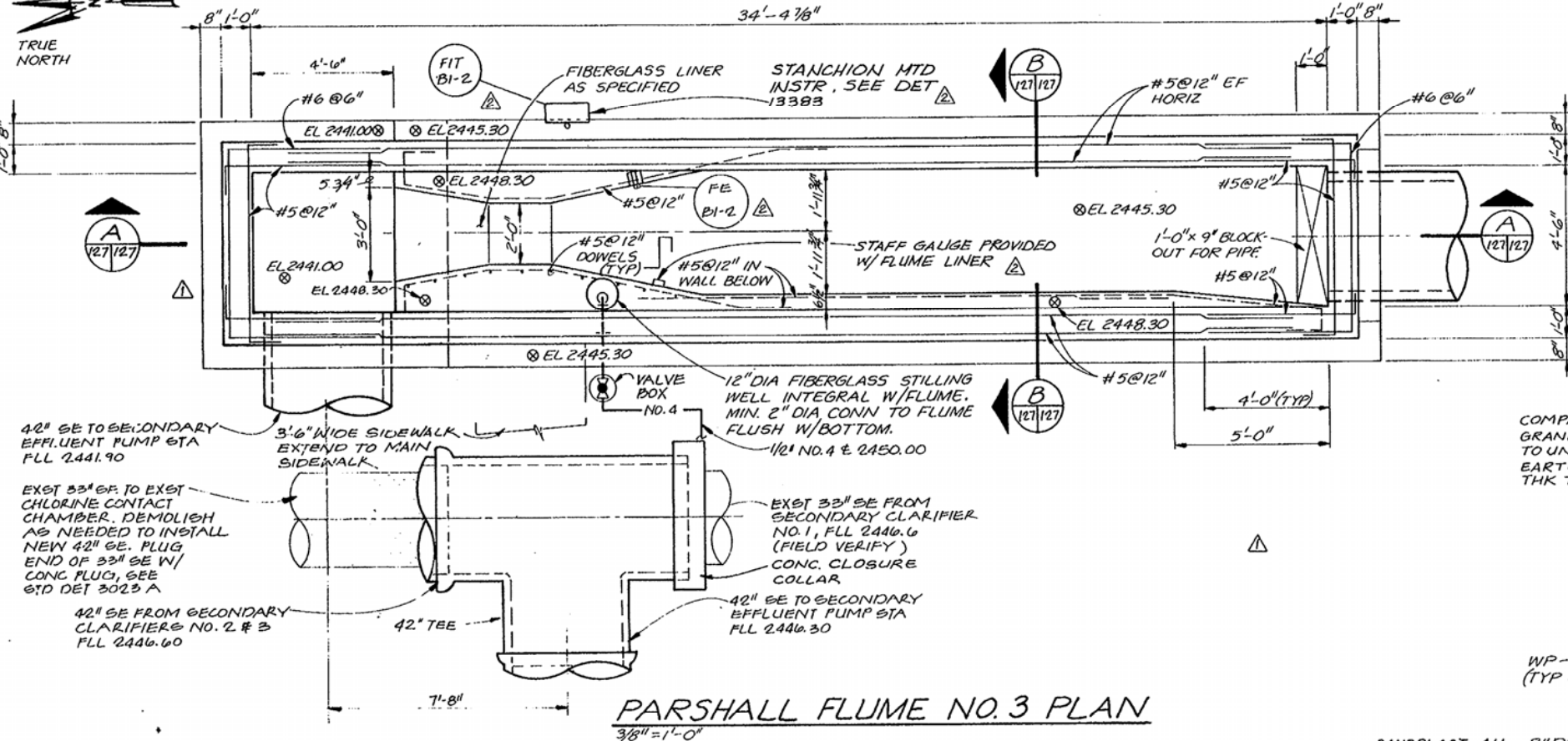
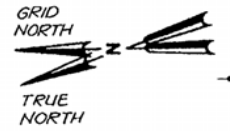


SECTION A
1/4" = 1'-0" 53/53

- NOTES:**
- DIMENSIONS AND EQUIPMENT PAD CONFIGURATIONS SHOWN ARE APPROXIMATE AND MAY VARY SIGNIFICANTLY DEPENDING ON THE EQUIPMENT FURNISHED. ALL FINAL DIMENSIONS INCLUDING THOSE NOT SHOWN, AND ANCHOR BOLT RECOMMENDATIONS SHALL BE DETERMINED BY THE SCREW PUMP MANUFACTURER AS SPECIFIED AND AS APPROVED BY THE ENGINEER.
 - GREASE TUBING IS TYPICAL FOR EACH SCREW PUMP. RUN TUBING IN 1-1/2" MIN PVC CONDUIT EMBEDDED IN SCREW PUMP CHANNEL GROUT, 1" MINIMUM COVER. CLAMP ALL EXPOSED TUBING TO CONCRETE AT EACH BEND AND ON 2' - 0" CENTERS MAX. USE 3/8" SST BOLTS IN EXPANSION ANCHORS AND AN APPROVED U-TYPE SST CLAMP. INSTALL INSULATING BUSHING AT ALL GREASE TUBING CONNECTIONS TO LOWER BEARINGS. TUBING TO BE 3/8" MIN. COPPER OR SST. CHOOSE MATERIAL AND SIZE PER SCREW PUMP MANUFACTURER'S RECOMMENDATIONS.



	DE. LMFR	8-82 6-80 NO. DATE	RECORD DRAWINGS	MLW LJB JME LJB BY APPD.	WASTEWATER TREATMENT PLANT CITY OF NAMPA, IDAHO CONTRACT 5	SECONDARY EFFLUENT PUMP STATION	SHEET
	DR. APE		NO. DATE				OF
	CHK. AMWIN		NO. DATE				53
	APPD. LUST		NO. DATE				DATE JAN 1980
						DWG. NO. C9821.D3	

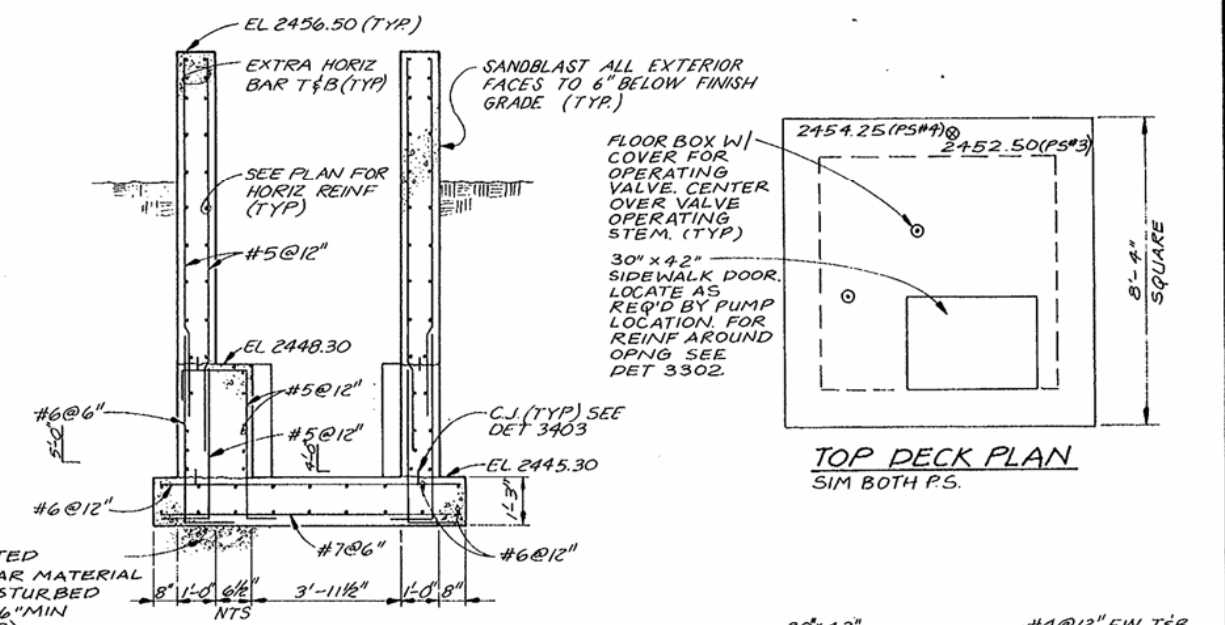


42" SE TO SECONDARY EFFLUENT PUMP STA FLL 2441.90

EXIST 33" SE TO EXIST CHLORINE CONTACT CHAMBER. DEMOLISH AS NEEDED TO INSTALL NEW 42" SE. PLUG END OF 33" SE W/ CONC PLUG, SEE STD DET 3023 A

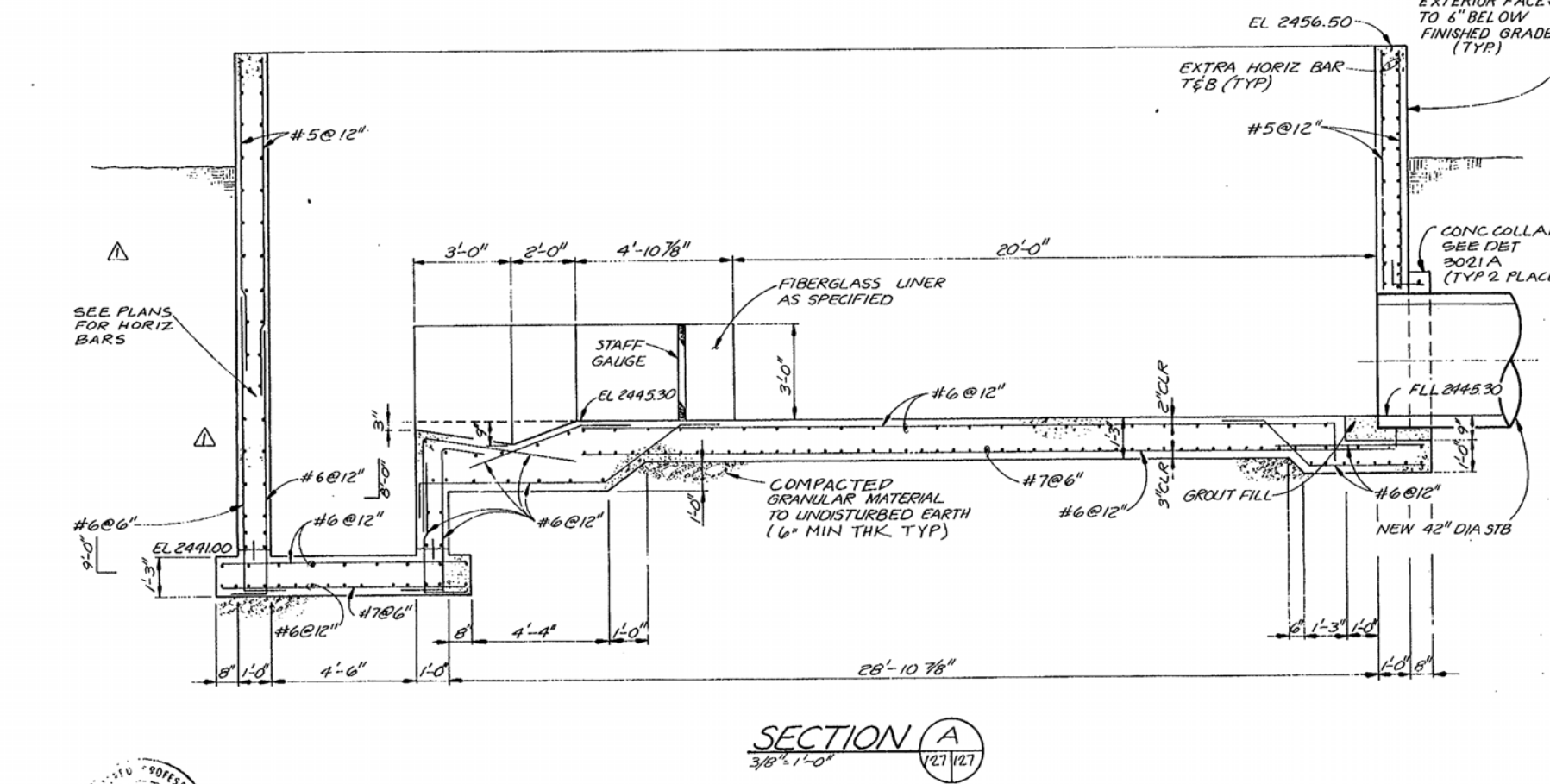
42" SE FROM SECONDARY CLARIFIERS NO. 2 & 3 FLL 2446.60

PARSHALL FLUME NO. 3 PLAN
3/8" = 1'-0"

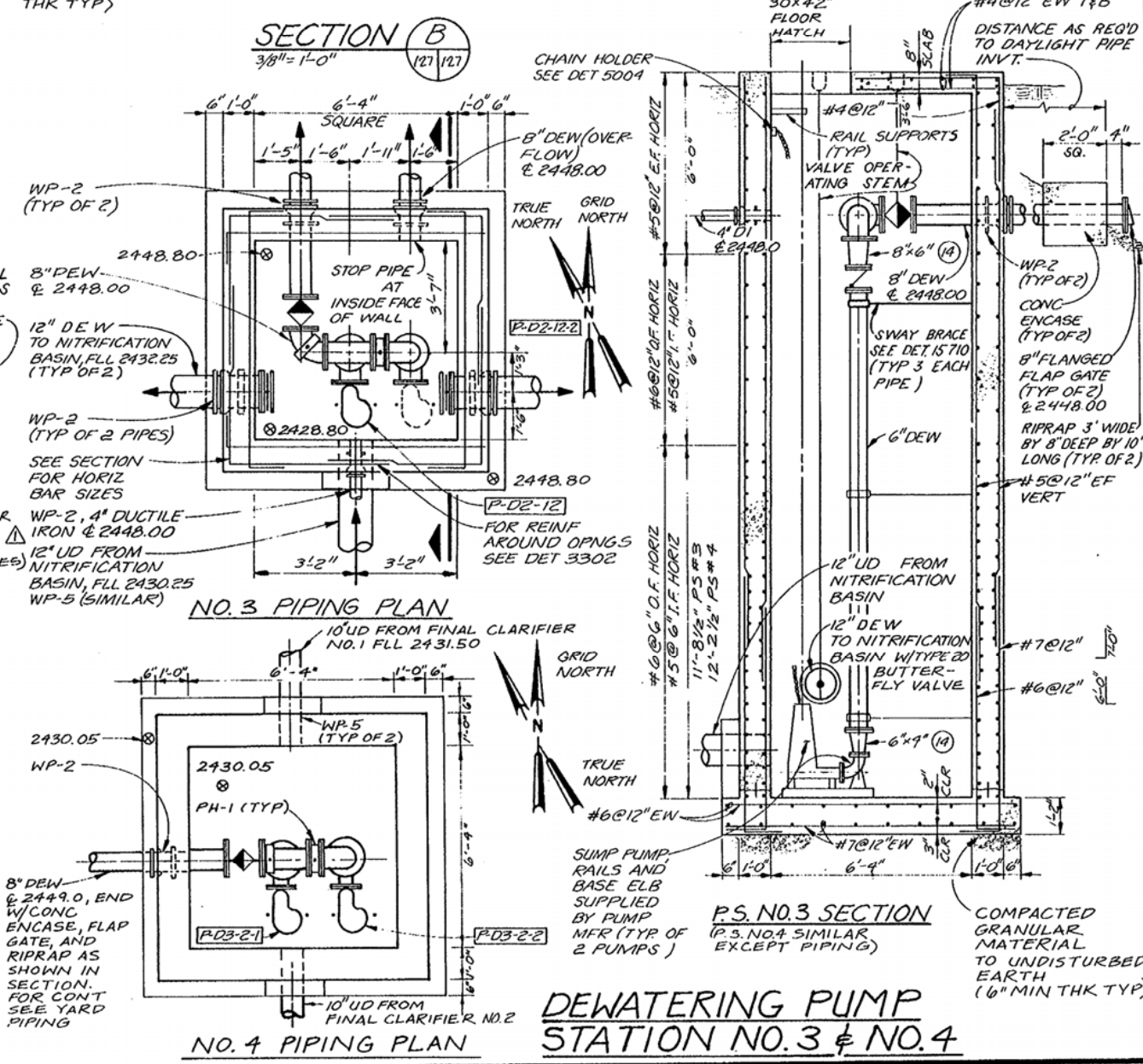


TOP DECK PLAN
SIM BOTH P.S.

SECTION B
3/8" = 1'-0"



SECTION A
3/8" = 1'-0"



NO. 3 PIPING PLAN

P.S. NO. 3 SECTION
(P.S. NO. 4 SIMILAR EXCEPT PIPING)

NO. 4 PIPING PLAN

DEWATERING PUMP STATION NO. 3 & NO. 4

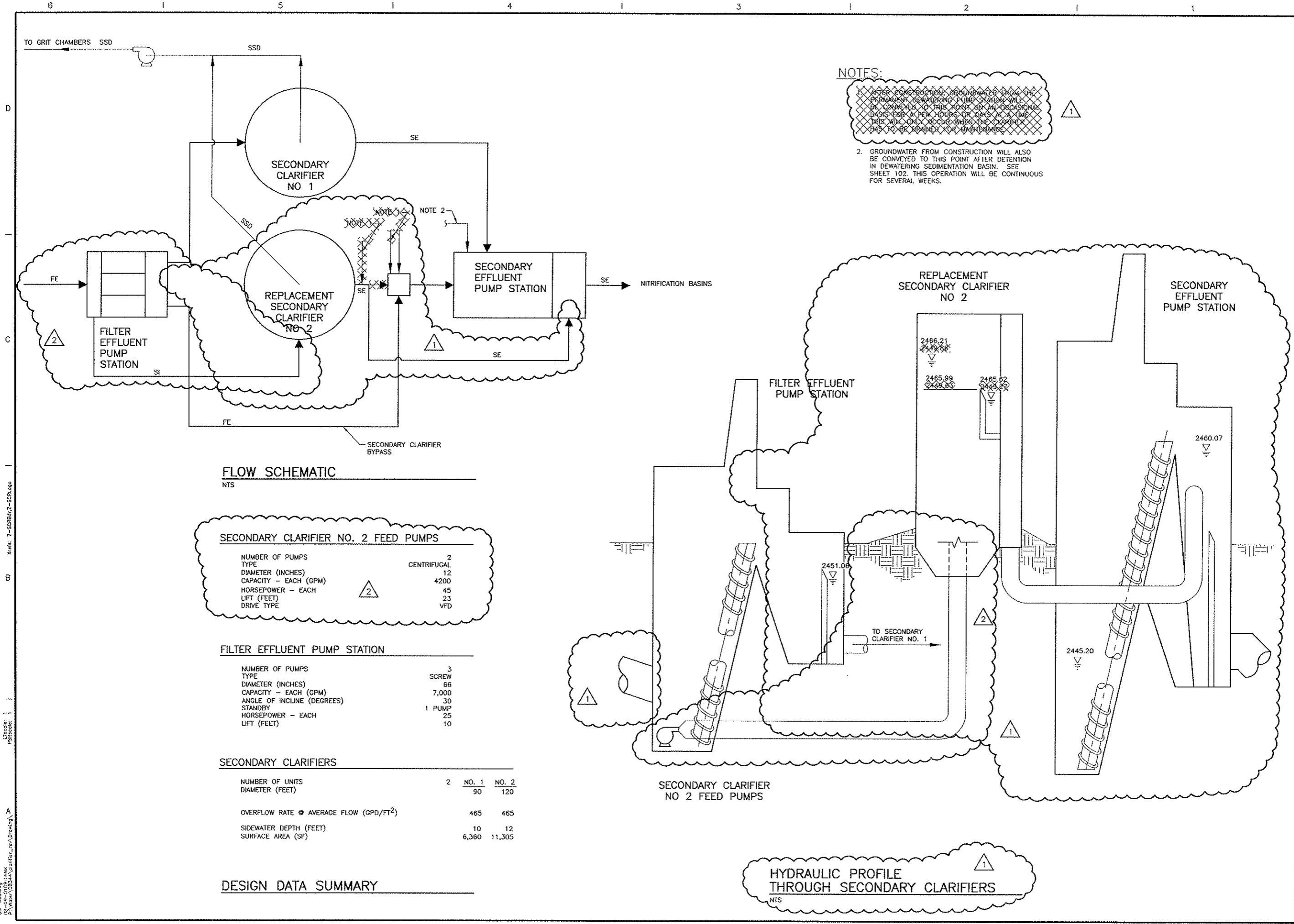


CH2M HILL	DES. LUBT/LUBWR	9/82	RECORD DRAWINGS	MLW	LJB-T
	DR. JLBK				
	CHK. AMUN				
	APPD. LUBT				
	NO.	DATE	REVISION	BY	APPD.
		6/80	CHANGE ORDER PARSHALL FLUME	JME	LJB-T

WASTEWATER TREATMENT PLANT
CITY OF NAMPA, IDAHO
CONTRACT 5

MISCELLANEOUS STRUCTURES
**PARSHALL FLUME NO. 3 AND
DEWATERING PUMP STATION NO. 3
PLANS AND SECTIONS**

SHEET 127
OF
DATE JAN 1980
DWG. NO. C9821.D3



NOTES:

1. AFTER CONSTRUCTION, GROUNDWATER FROM THE PERMANENT DEWATERING PUMP STATION WILL BE CONVEYED TO THIS POINT ON AN OCCASIONAL BASIS FOR A FEW HOURS OR DAYS AT A TIME. THIS WILL ONLY OCCUR WHEN THE CLARIFIER HAS TO BE DRAINED FOR MAINTENANCE.

2. GROUNDWATER FROM CONSTRUCTION WILL ALSO BE CONVEYED TO THIS POINT AFTER DETENTION IN DEWATERING SEDIMENTATION BASIN. SEE SHEET 102. THIS OPERATION WILL BE CONTINUOUS FOR SEVERAL WEEKS.

FLOW SCHEMATIC

NTS

SECONDARY CLARIFIER NO. 2 FEED PUMPS

NUMBER OF PUMPS	2
TYPE	CENTRIFUGAL
DIAMETER (INCHES)	12
CAPACITY - EACH (GPM)	4200
HORSEPOWER - EACH	45
LIFT (FEET)	23
DRIVE TYPE	VFD

FILTER EFFLUENT PUMP STATION

NUMBER OF PUMPS	3
TYPE	SCREW
DIAMETER (INCHES)	66
CAPACITY - EACH (GPM)	7,000
ANGLE OF INCLINE (DEGREES)	30
STANDBY	1 PUMP
HORSEPOWER - EACH	25
LIFT (FEET)	10

SECONDARY CLARIFIERS

	NO. 1	NO. 2
NUMBER OF UNITS	2	2
DIAMETER (FEET)	90	120
OVERFLOW RATE @ AVERAGE FLOW (GPD/FT ²)	465	465
SIDEWATER DEPTH (FEET)	10	12
SURFACE AREA (SF)	6,360	11,305

DESIGN DATA SUMMARY

HYDRAULIC PROFILE THROUGH SECONDARY CLARIFIERS

NTS



CITY OF NAMP
WASTEWATER TREATMENT PLANT

SECONDARY CLARIFIER REPLACEMENT

Project Manager	D. BACKER
Designed	D. CLARK
Drawn	S. ROBISON
Checked	D. CLARK
Project Number	08344-002-103
Date	OCTOBER 2000



THIS LINE IS ONE INCH WHEN DRAWING IS FULL SIZE. IF NOT ONE INCH, SCALE ACCORDINGLY.

No	By	Description	Date
1	EJM	ABOVE GROUND CONSTRUCTION	08/09/01
2	SDW	PER CLARIFIER FEED PUMP STATION DESIGN	08/27/01

DESIGN SUMMARY

Sheet Number
3

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**SECONDARY
CLARIFIER
REPLACEMENT**

Project Manager
D. BACKER
Designed
D. CLARK
Drawn
E. MCDERMOTT
Checked
D. CLARK
Project Number
08344-002-103
Date
OCTOBER 2000

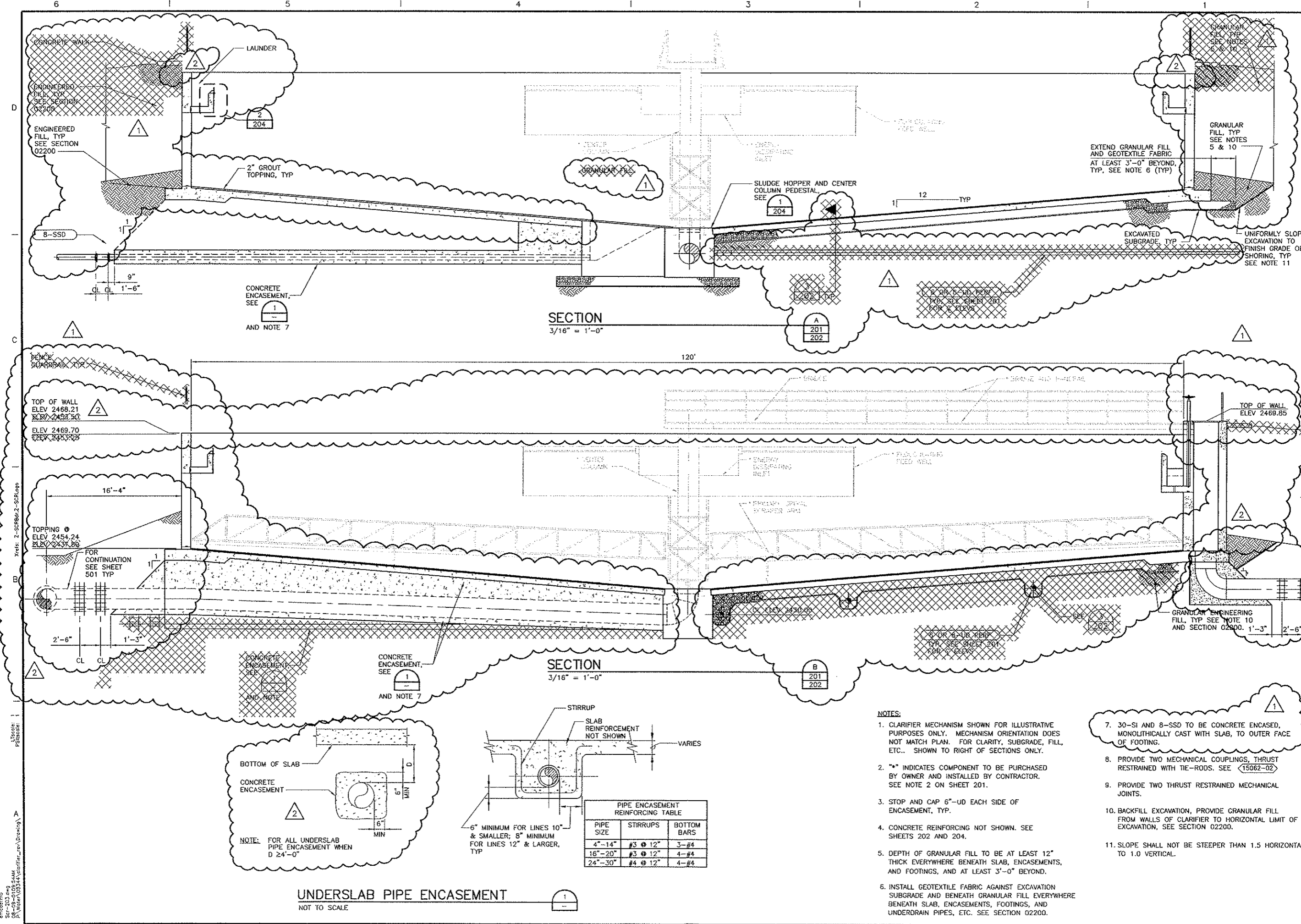


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Date	Description
08/09/01	CONSTRUCTION
09/27/01	DESIGN
By: EJM ABOVE GROUND CONSTRUCTION	
SDW PER CLARIFIER FEED PUMP STATION	
No.	
1	
2	

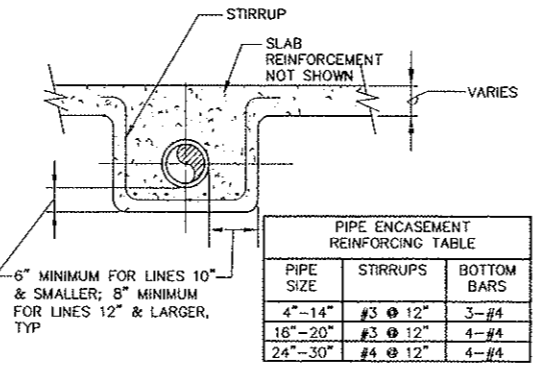
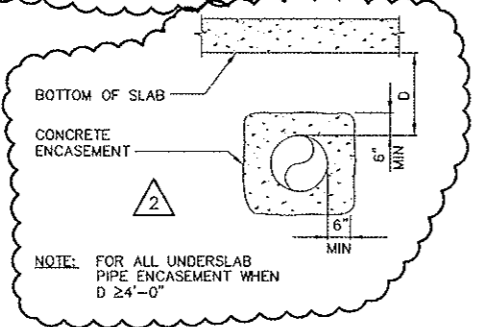
**SECONDARY
CLARIFIER -
SECTIONS AND
DETAILS**

Sheet Number
203



SECTION
3/16" = 1'-0"

SECTION
3/16" = 1'-0"



NOTES:

1. CLARIFIER MECHANISM SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. MECHANISM ORIENTATION DOES NOT MATCH PLAN. FOR CLARITY, SUBGRADE, FILL, ETC.. SHOWN TO RIGHT OF SECTIONS ONLY.
2. "*" INDICATES COMPONENT TO BE PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR. SEE NOTE 2 ON SHEET 201.
3. STOP AND CAP 6"-OD EACH SIDE OF ENCASEMENT, TYP.
4. CONCRETE REINFORCING NOT SHOWN. SEE SHEETS 202 AND 204.
5. DEPTH OF GRANULAR FILL TO BE AT LEAST 12" THICK EVERYWHERE BENEATH SLAB, ENCASEMENTS, AND FOOTINGS, AND AT LEAST 3'-0" BEYOND.
6. INSTALL GEOTEXTILE FABRIC AGAINST EXCAVATION SUBGRADE AND BENEATH GRANULAR FILL EVERYWHERE BENEATH SLAB, ENCASEMENTS, FOOTINGS, AND UNDERDRAIN PIPES, ETC. SEE SECTION 02200.
7. 30-SI AND 8-SSD TO BE CONCRETE ENCASED, MONOLITHICALLY CAST WITH SLAB, TO OUTER FACE OF FOOTING.
8. PROVIDE TWO MECHANICAL COUPLINGS, THRUST RESTRAINED WITH TIE-RODS. SEE 15062-02
9. PROVIDE TWO THRUST RESTRAINED MECHANICAL JOINTS.
10. BACKFILL EXCAVATION, PROVIDE GRANULAR FILL FROM WALLS OF CLARIFIER TO HORIZONTAL LIMIT OF EXCAVATION, SEE SECTION 02200.
11. SLOPE SHALL NOT BE STEEPER THAN 1.5 HORIZONTAL TO 1.0 VERTICAL.

UNDERSLAB PIPE ENCASEMENT

NOT TO SCALE

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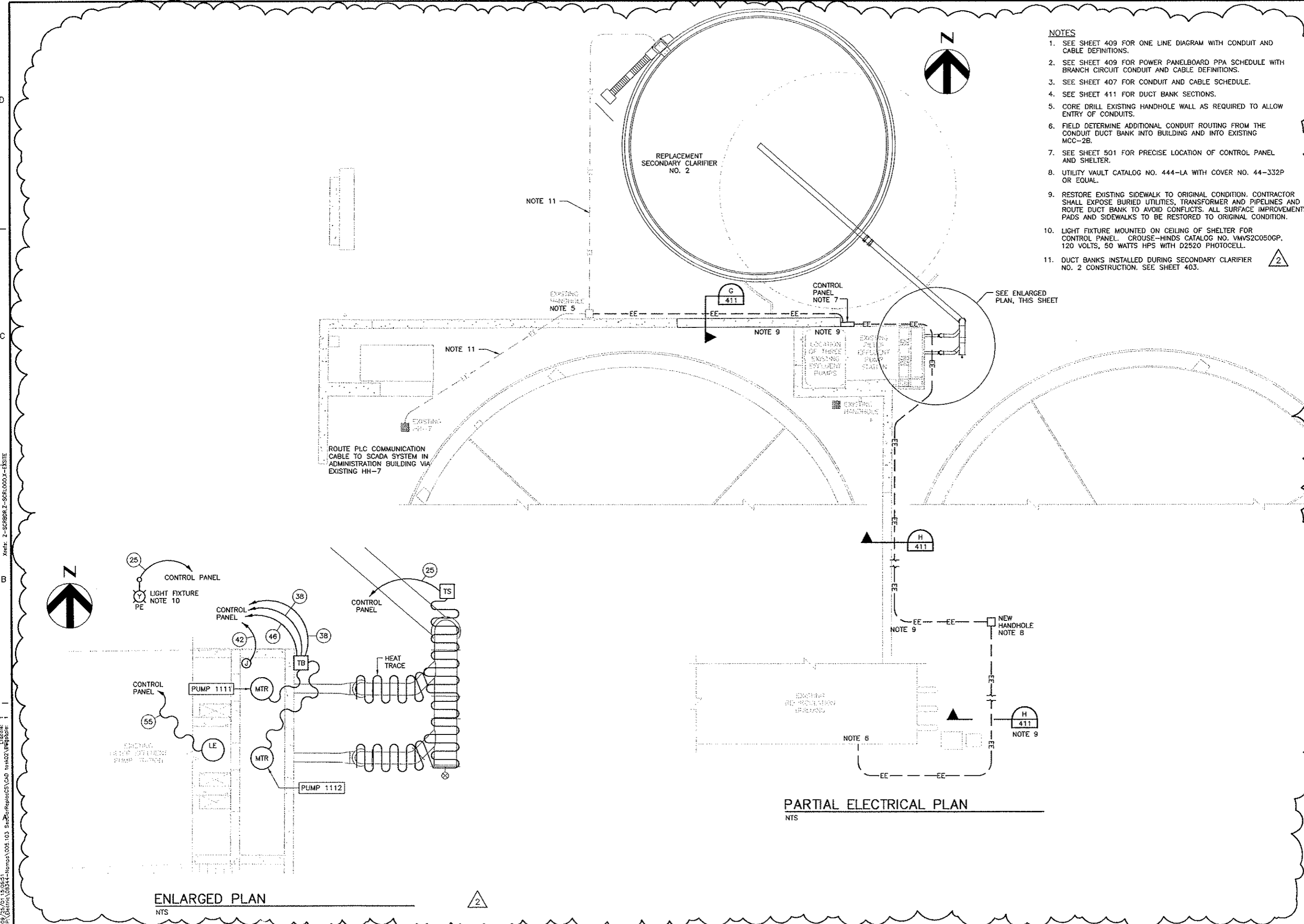
CITY OF NAMPA
WASTEWATER TREATMENT PLANT

SECONDARY CLARIFIER REPLACEMENT

NOTES

1. SEE SHEET 409 FOR ONE LINE DIAGRAM WITH CONDUIT AND CABLE DEFINITIONS.
2. SEE SHEET 409 FOR POWER PANELBOARD PPA SCHEDULE WITH BRANCH CIRCUIT CONDUIT AND CABLE DEFINITIONS.
3. SEE SHEET 407 FOR CONDUIT AND CABLE SCHEDULE.
4. SEE SHEET 411 FOR DUCT BANK SECTIONS.
5. CORE DRILL EXISTING HANDHOLE WALL AS REQUIRED TO ALLOW ENTRY OF CONDUITS.
6. FIELD DETERMINE ADDITIONAL CONDUIT ROUTING FROM THE CONDUIT DUCT BANK INTO BUILDING AND INTO EXISTING MCC-2B.
7. SEE SHEET 501 FOR PRECISE LOCATION OF CONTROL PANEL AND SHELTER.
8. UTILITY VAULT CATALOG NO. 444-LA WITH COVER NO. 44-332P OR EQUAL.
9. RESTORE EXISTING SIDEWALK TO ORIGINAL CONDITION. CONTRACTOR SHALL EXPOSE BURIED UTILITIES, TRANSFORMER AND PIPELINES AND ROUTE DUCT BANK TO AVOID CONFLICTS. ALL SURFACE IMPROVEMENTS, PADS AND SIDEWALKS TO BE RESTORED TO ORIGINAL CONDITION.
10. LIGHT FIXTURE MOUNTED ON CEILING OF SHELTER FOR CONTROL PANEL. CROUSE-HINDS CATALOG NO. VMVS2C050GP, 120 VOLTS, 50 WATTS HPS WITH D2520 PHOTOCELL.
11. DUCT BANKS INSTALLED DURING SECONDARY CLARIFIER NO. 2 CONSTRUCTION. SEE SHEET 403.

2



Project Manager	D. BACKER
Designed	L. REISINGER
Drawn	P. McCLINTOCK
Checked	E. SWANSON
Project Number	08344-002-103
Date	OCTOBER 2000



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Date	Description	By	No.
09/27/01 <td>DESIGN</td> <td>LGR <td>2</td> </td>	DESIGN	LGR <td>2</td>	2
	PER CLARIFIER FEED PUMP STATION		

CLARIFIER FEED PUMPING SYSTEM POWER PLAN

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 Date: 10/11/00
 Title: CLARIFIER FEED PUMP STATION POWER PLAN
 Author: LGR
 Scale: NTS

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 Xrefs: Z-SCHBRZ-SCRLOGO

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CITY OF NAMPA
 WASTEWATER TREATMENT PLANT

SECONDARY CLARIFIER REPLACEMENT

Project Manager
 D. BACKER

Designed
 L. REISINGER

Drawn
 P. McCLINTOCK

Checked
 E. SWANSON

Project Number
 08344-002-103

Date
 OCTOBER 2000

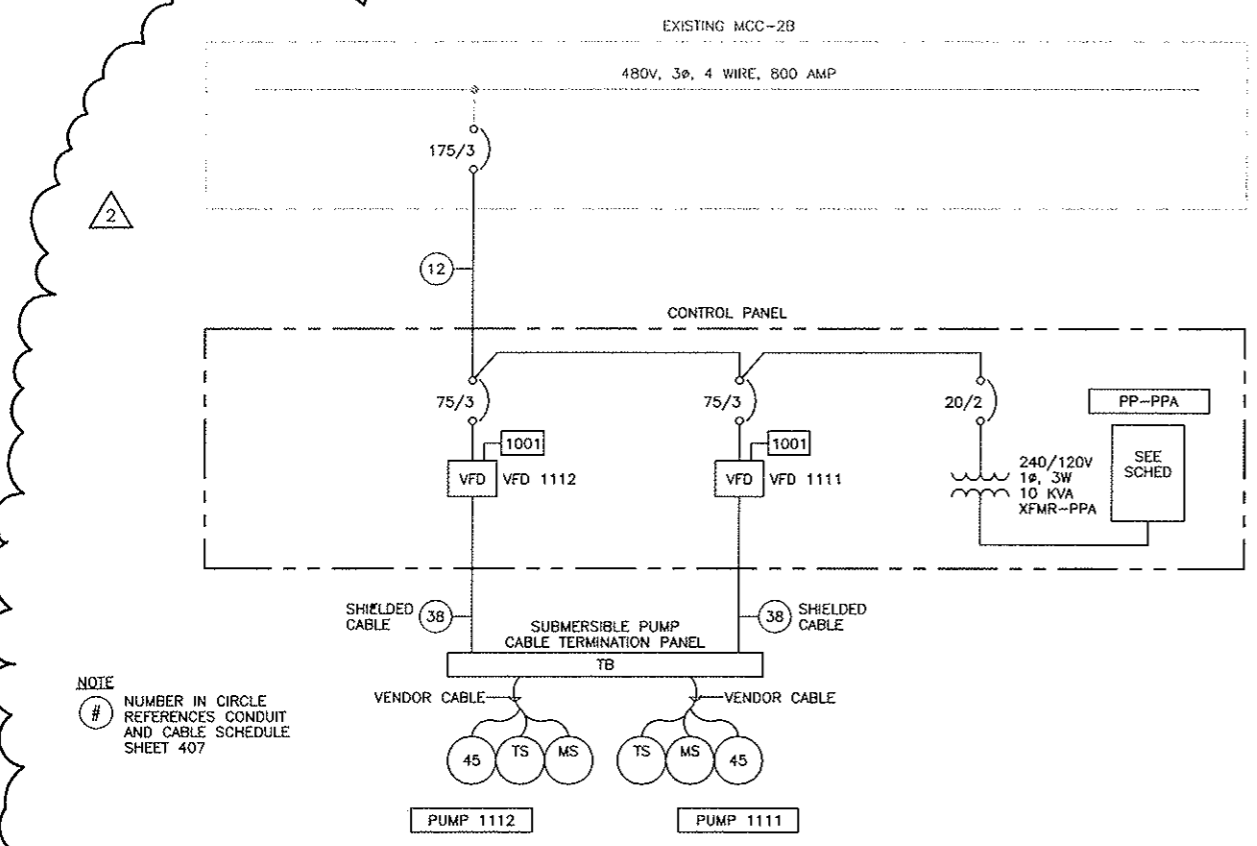


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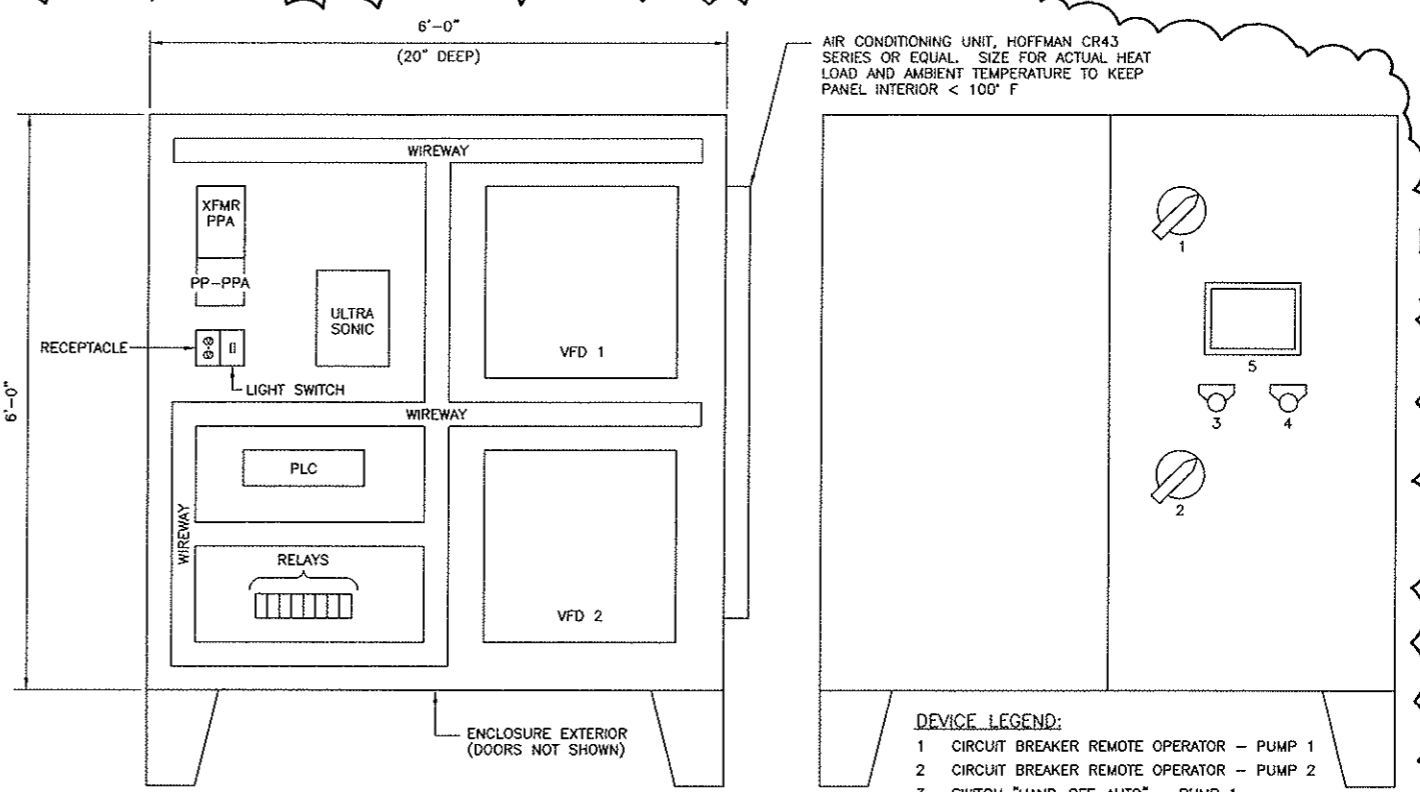
Date	Description
09/27/01	PER CLARIFIER FEED PUMP STATION DESIGN
No	By
2	LGR

ELECTRICAL ONE LINE DIAGRAM AND P&ID

Sheet Number
 409



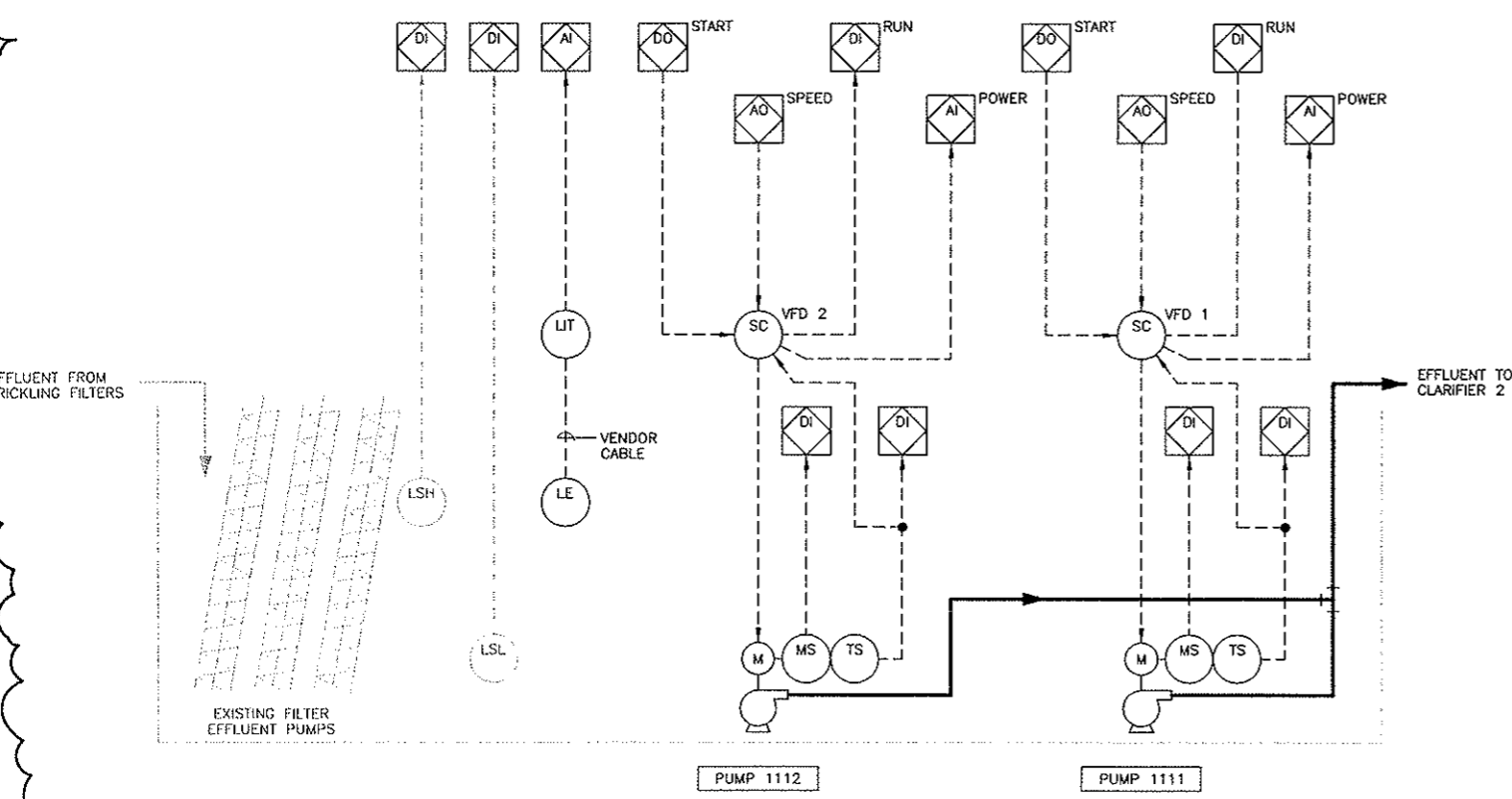
**SECONDARY CLARIFIER FEED PUMP STATION
 CONTROL PANEL ONE LINE DIAGRAM**



CONTROL PANEL ELEVATION
 NTS NEMA 4X

FRONT VIEW INTERIOR

FRONT VIEW EXTERIOR



SECONDARY CLARIFIER FEED PUMP STATION P&ID

POWER PANELBOARD PPA SCHEDULE											
PANEL: PPA				ENTRANCE: BY MFR				MOUNTING: INTEGRAL TO CONTROL PANEL			
SERVICE:								SERVICE ENTRANCE LABEL:			
MAIN DEVICE: 40 AMP CIRCUIT BREAKER, 2 POLE, 10,000 AIC											
FEEDER SOURCE: XFMR-PPA						FEEDER SIZE:					
CKT NO.	CIRCUIT IDENTIFICATION		CONDUIT #	CB AMPS	CONDUIT #	CB AMPS	CIRCUIT IDENTIFICATION		CKT NO.		
1	AIR CONDITIONER		25	20/2	25	20/1	INSTRUMENTS/PLC		2		
3	LIGHTING		25	20/1	25	20/1	RECEPTACLES		4		
5	HEAT TRACING		25	20/1	25	20/1	SPACE		6		
7	SPACE						SPACE		8		
9	SPACE						SPACE		10		
11	SPACE						SPACE		12		

NOTE
 # NUMBER IN CIRCLE
 REFERENCES CONDUIT
 AND CABLE SCHEDULE
 SHEET 407

2

SECONDARY CLARIFIER REPLACEMENT

Project Manager
D. BACKER
Designed
D. KEIL
Drawn
E. MCDERMOTT
Checked

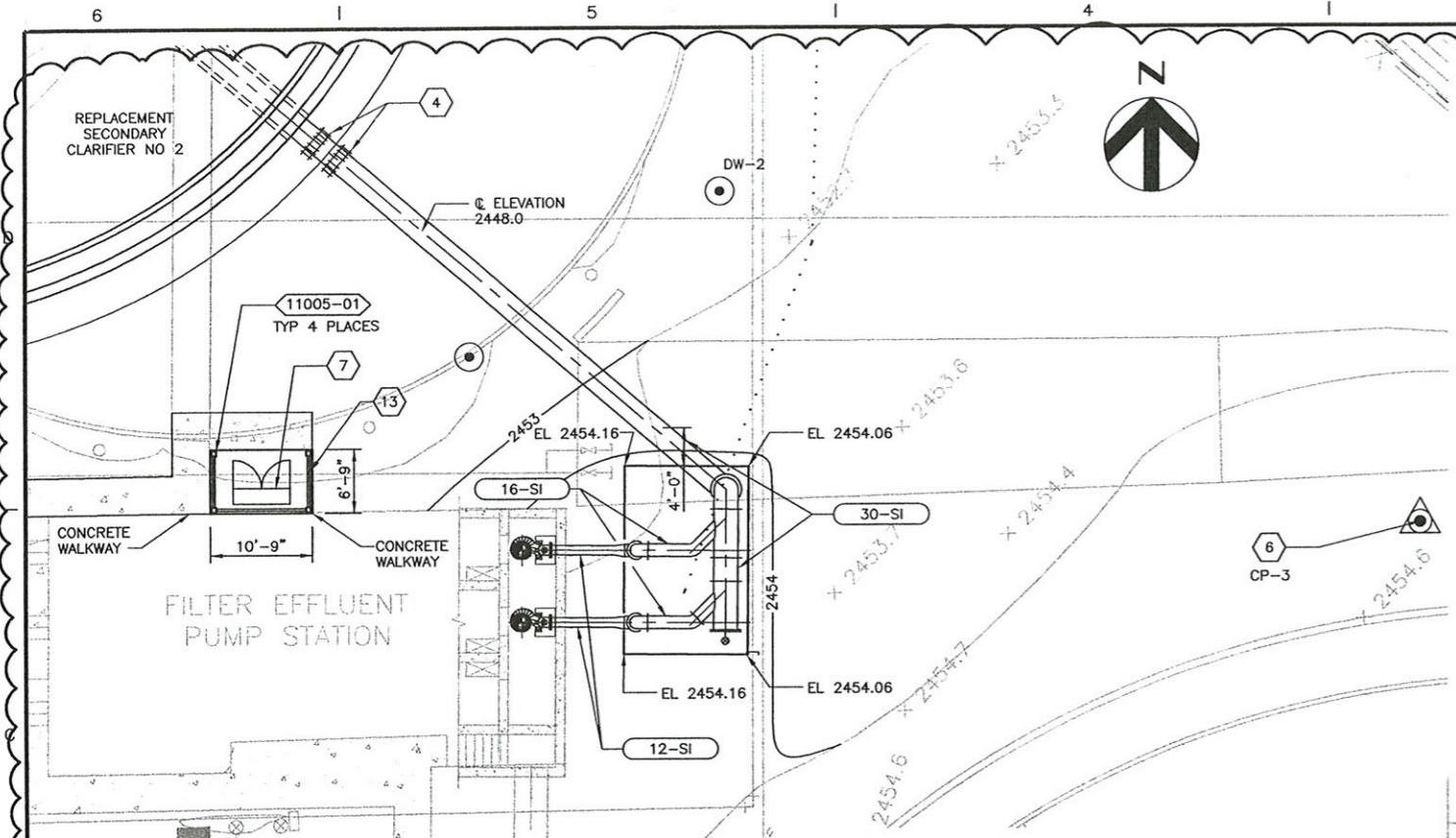
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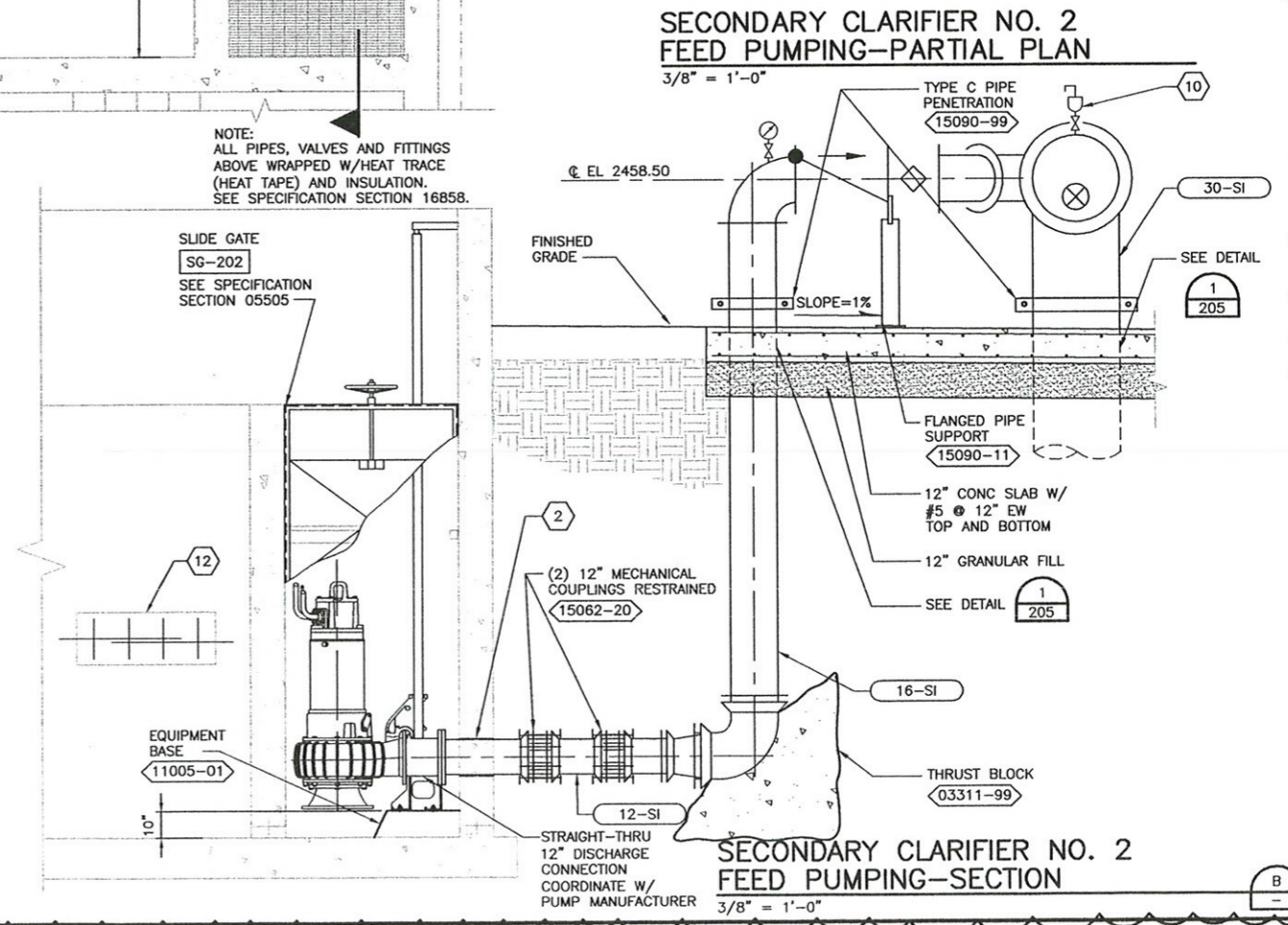
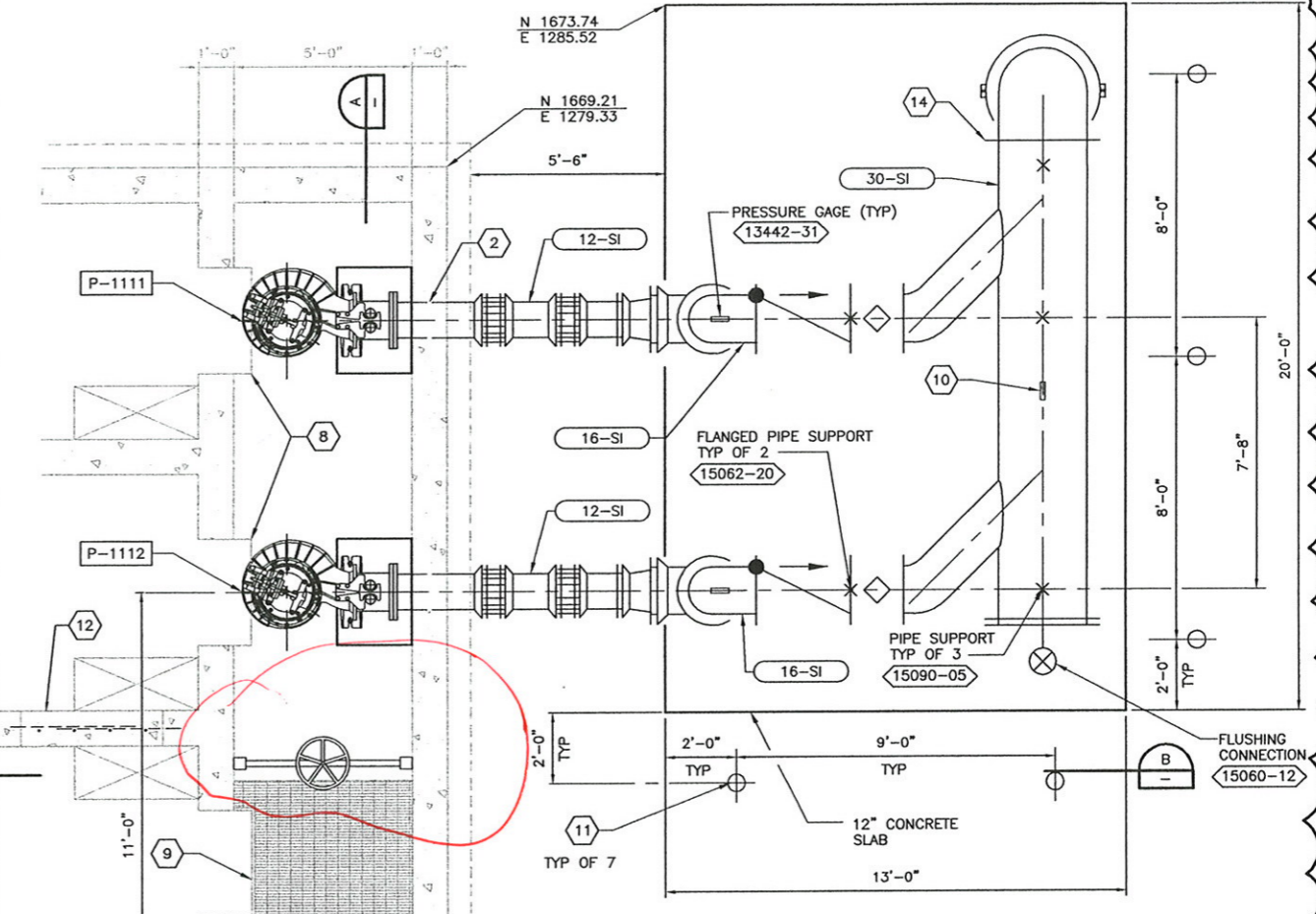
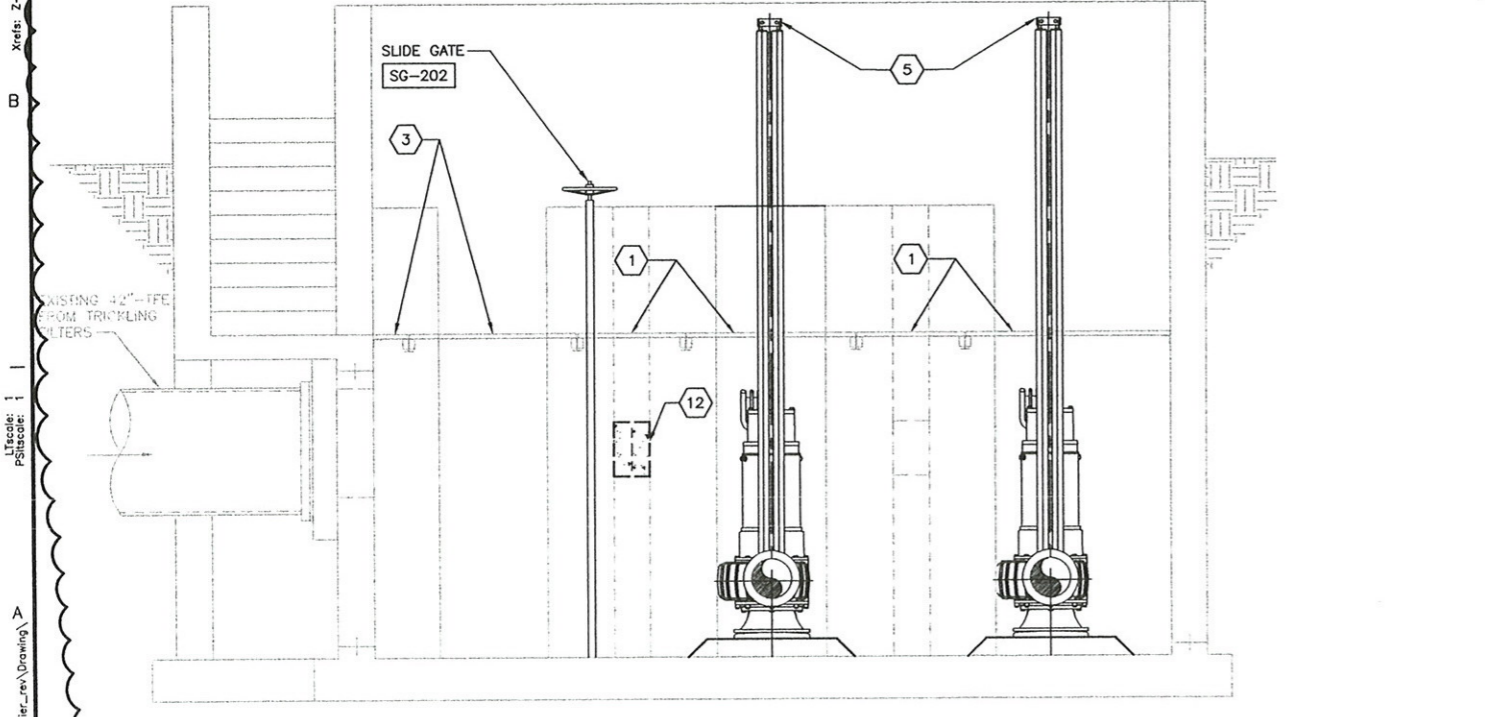
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Date	Description
08/09/01	ABOVE GROUND CONSTRUCTION
09/27/01	PER CLARIFIER FEED PUMP STATION DESIGN

SECONDARY CLARIFIER NO. 2 FEED PUMPING PLANS AND SECTIONS



- NOTES:**
- REMOVE EXISTING GRATING IN LOCATIONS SHOWN AND SALVAGE TO OWNER.
 - CORE DRILL WALL AND PROVIDE MODULAR MECHANICAL SEAL. 01800-20
 - EXISTING GRATING TO REMAIN. CONTRACTOR SHALL RESTORE STRUCTURAL SUPPORT OF GRATING FOLLOWING INSTALLATION OF SG-202.
 - CONNECT TO SECONDARY CLARIFIER NO 2 30-SI WITH MECHANICAL COUPLINGS. INSTALL PUMP GUIDE RAILS AND MOUNTING HARDWARE PER MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL COORDINATE INSTALLATION TO FIT WITHIN EXISTING SPACE AVAILABLE.
 - REMOVE EXISTING SLIDE GATES AND FRAMES.
 - EXISTING SLIDE GATE TO REMAIN.
 - FLUSHING CONNECTION FC-1 15060-11
 - SECONDARY CLARIFIER NO. 2 FEED PUMPING CONTROL PANEL. SEE SHEET 408. MOUNT PER 11005-01
 - REMOVE EXISTING SLIDE GATES AND FRAMES.
 - EXISTING SLIDE GATE TO REMAIN.
 - FLUSHING CONNECTION FC-1 15060-11
 - BOLLARD PER 02455-01
 - FILL EXISTING 4'-0"x1'-6" OPENING W/CONCRETE REINFORCED W/ #5 @ 12" OC EW. HORIZ BARS TO BE 3'-6" IN LENGTH DOWELED 6" INTO EXISTING WALL. ROUGHEN EXISTING CONCRETE PRIOR TO PLACING NEW CONCRETE. PROVIDE ADHESIVE WATERSTOP AROUND PERIMETER OF EXISTING OPENING AT WALL CENTER LINE.
 - EQUIPMENT SHELTER. SEE SPECIFICATION SECTION 10950.
 - PROVIDE FLANGED CONNECTION.



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