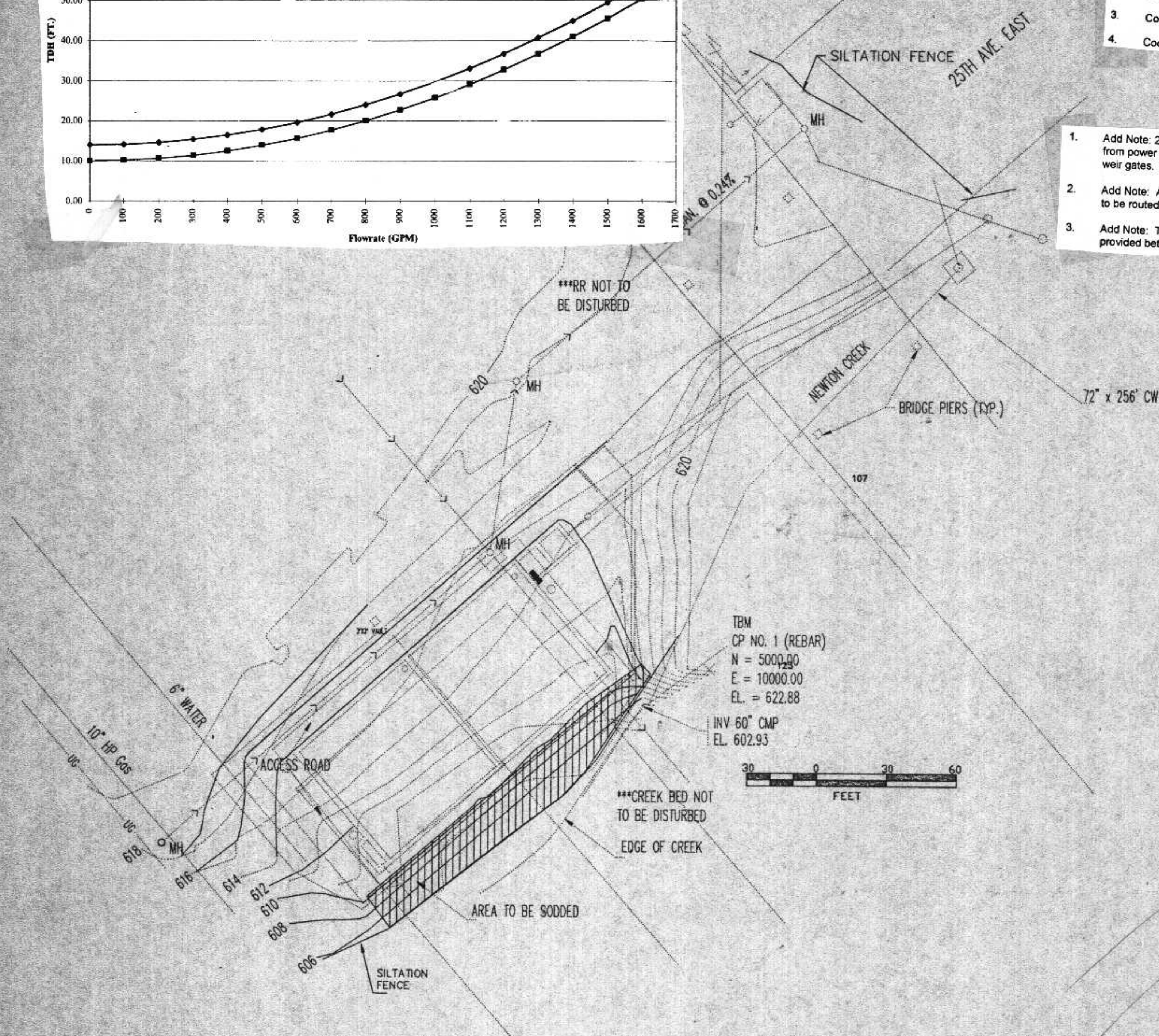
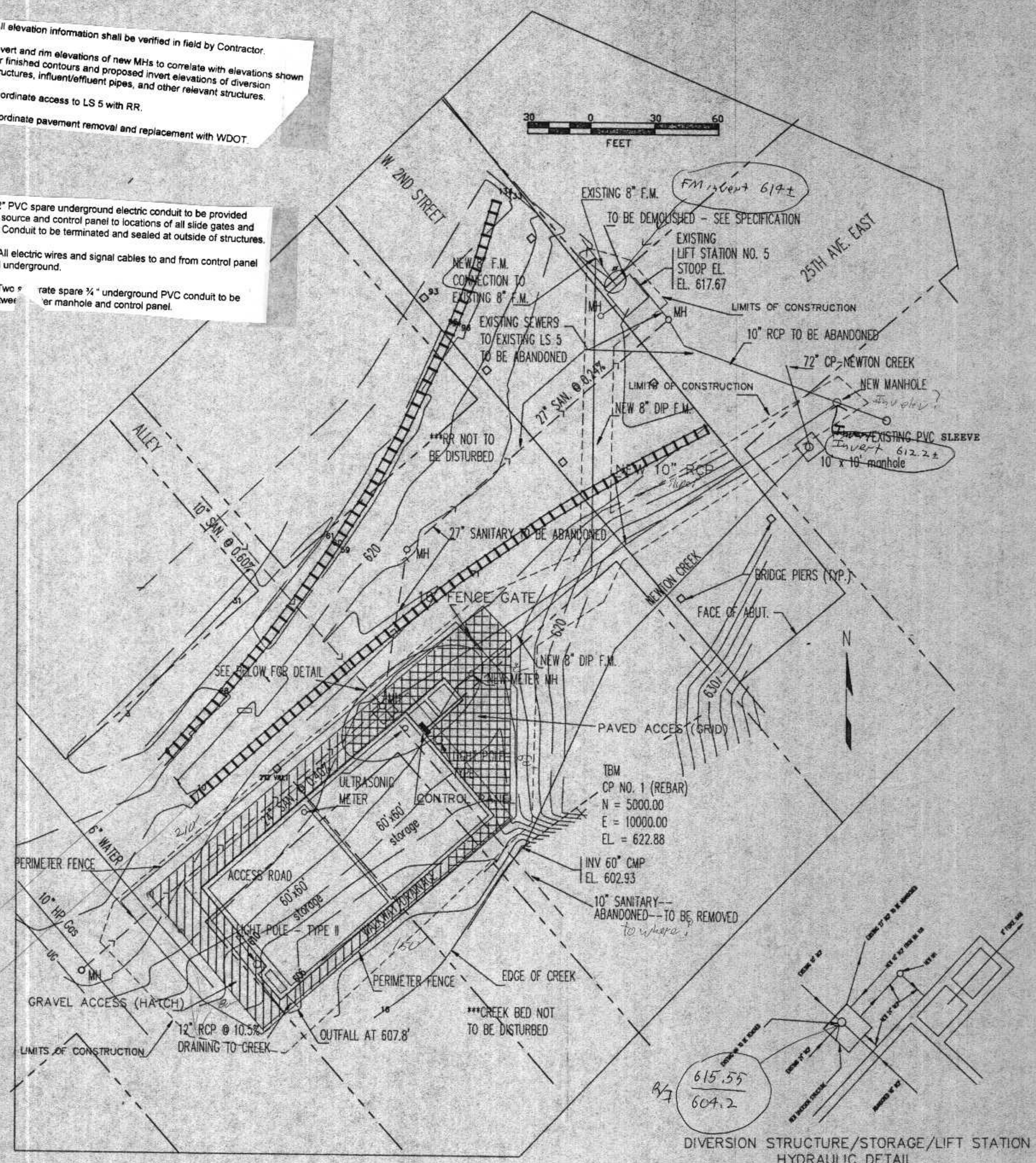


1. All elevation information shall be verified in field by Contractor.
2. Invert and rim elevations of new MHs to correlate with elevations shown for finished contours and proposed invert elevations of diversion structures, influent/effluent pipes, and other relevant structures.
3. Coordinate access to LS 5 with RR.
4. Coordinate pavement removal and replacement with WDOT.

1. Add Note: 2" PVC spare underground electric conduit to be provided from power source and control panel to locations of all slide gates and weir gates. Conduit to be terminated and sealed at outside of structures.
2. Add Note: All electric wires and signal cables to and from control panel to be routed underground.
3. Add Note: Two 1/2" rate spare 1/2" underground PVC conduit to be provided between manhole and control panel.



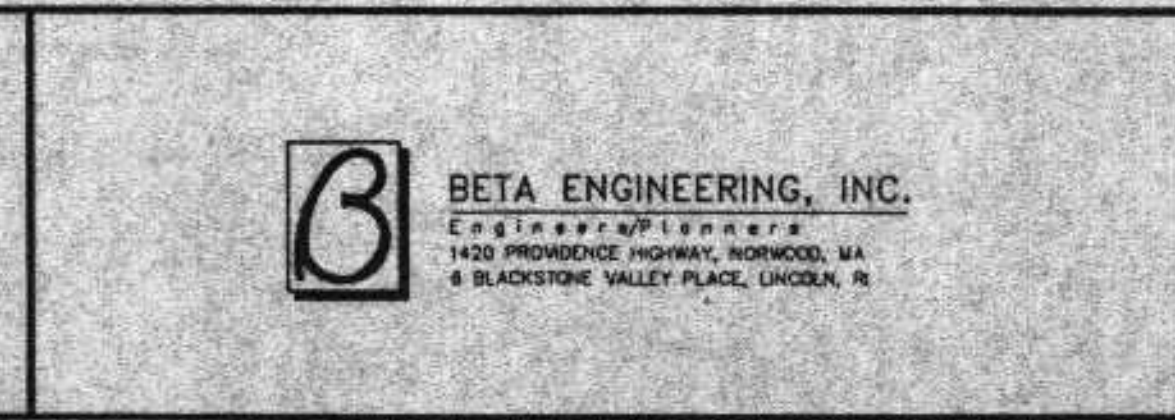
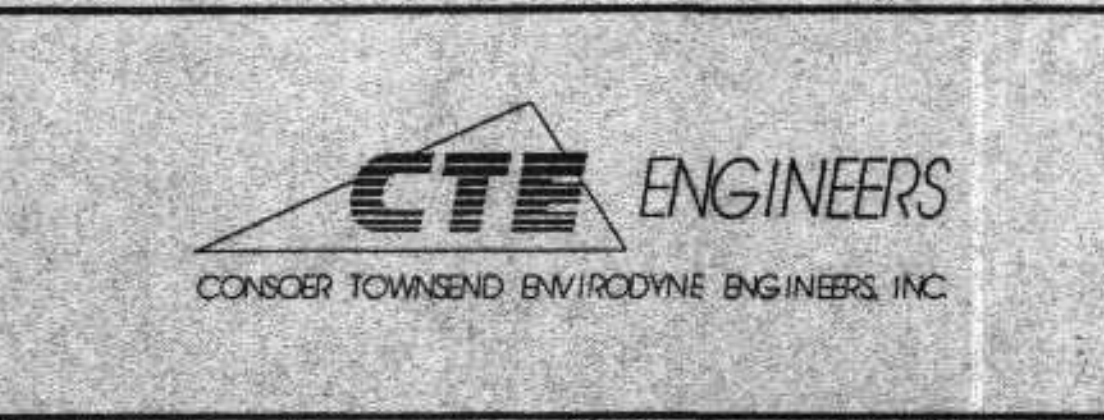
NEW CONTOURS, AREAS TO BE SODDED, AND SILTATION FENCE



NO.	DATE	DESCRIPTION	APPROVED

DESIGNED _____
 DRAWN _____
 CHECKED _____
 DATE _____

SCALE _____

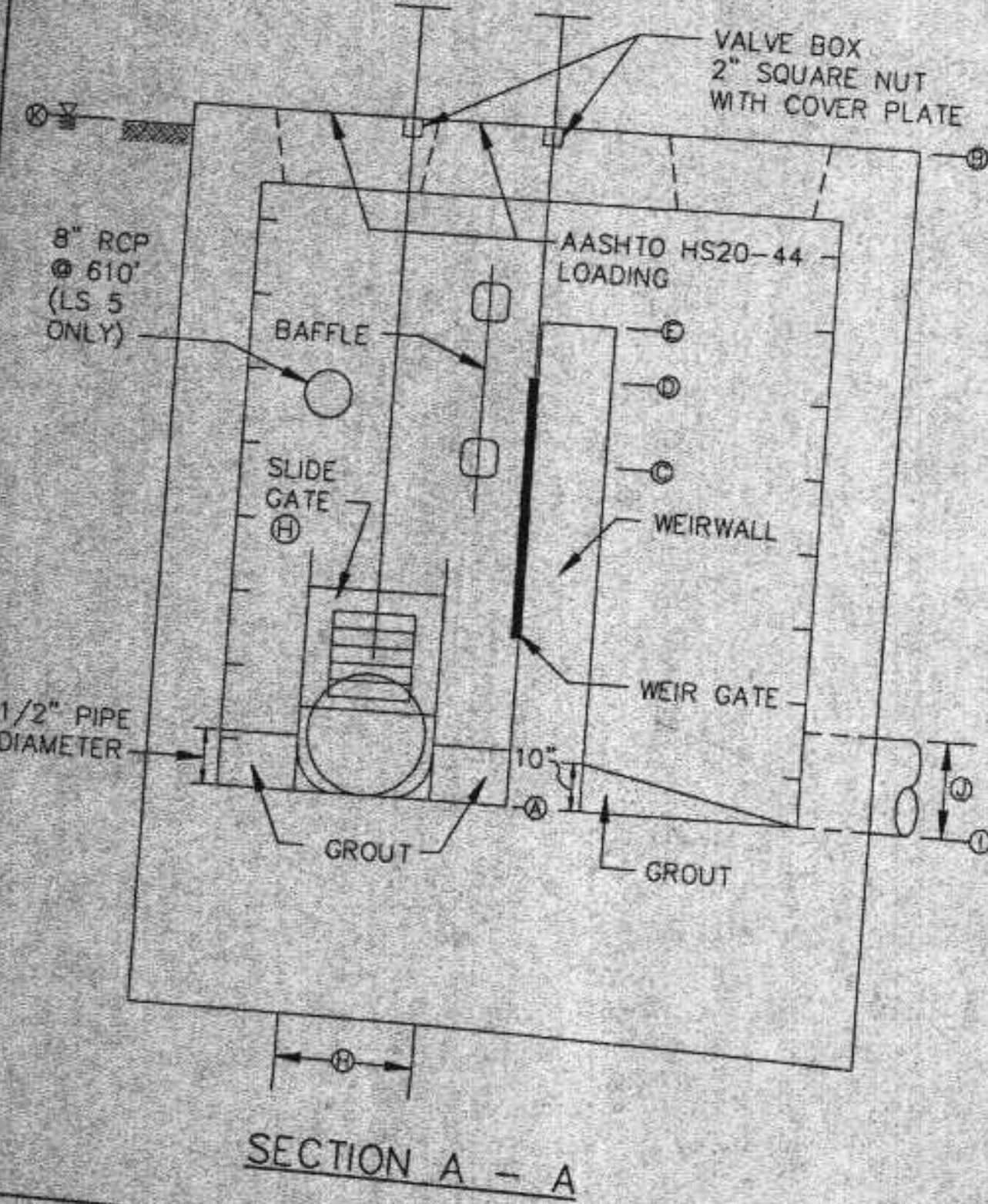
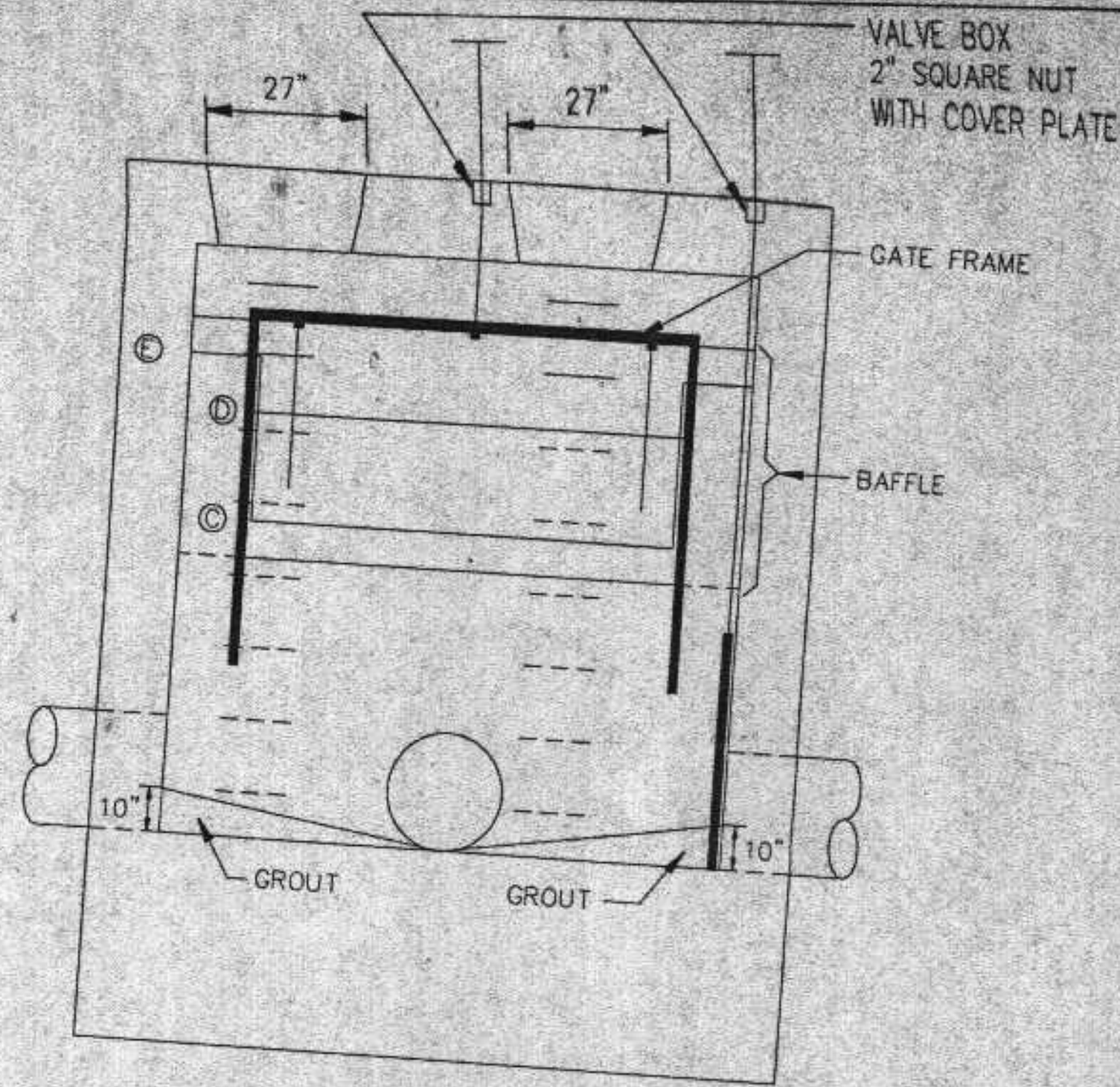
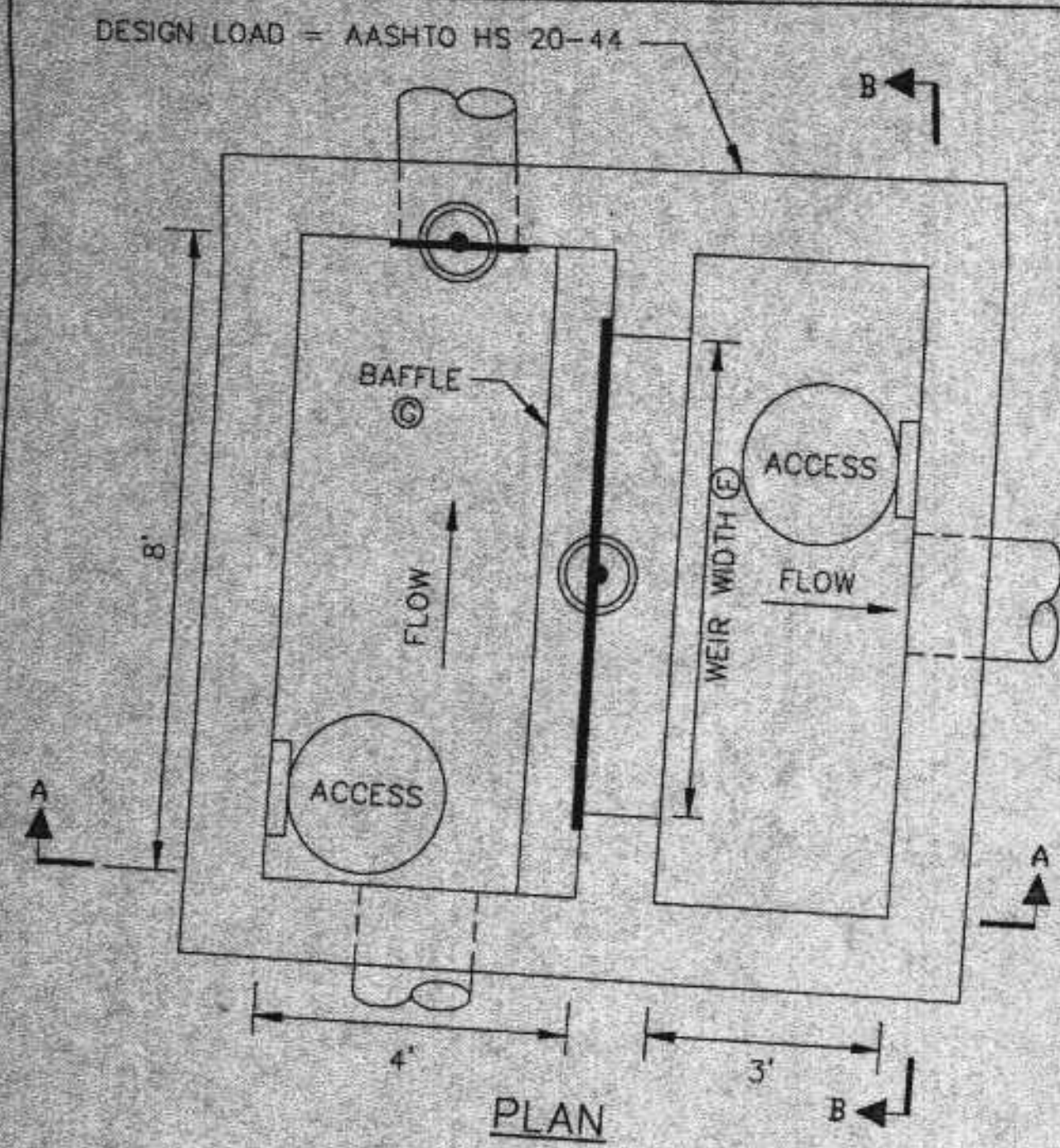


CITY OF SUPERIOR, WISCONSIN
 DEPARTMENT OF PUBLIC WORKS

CONTRACT NO. 3
 LIFT STATION 5 AND STORAGE PLAN

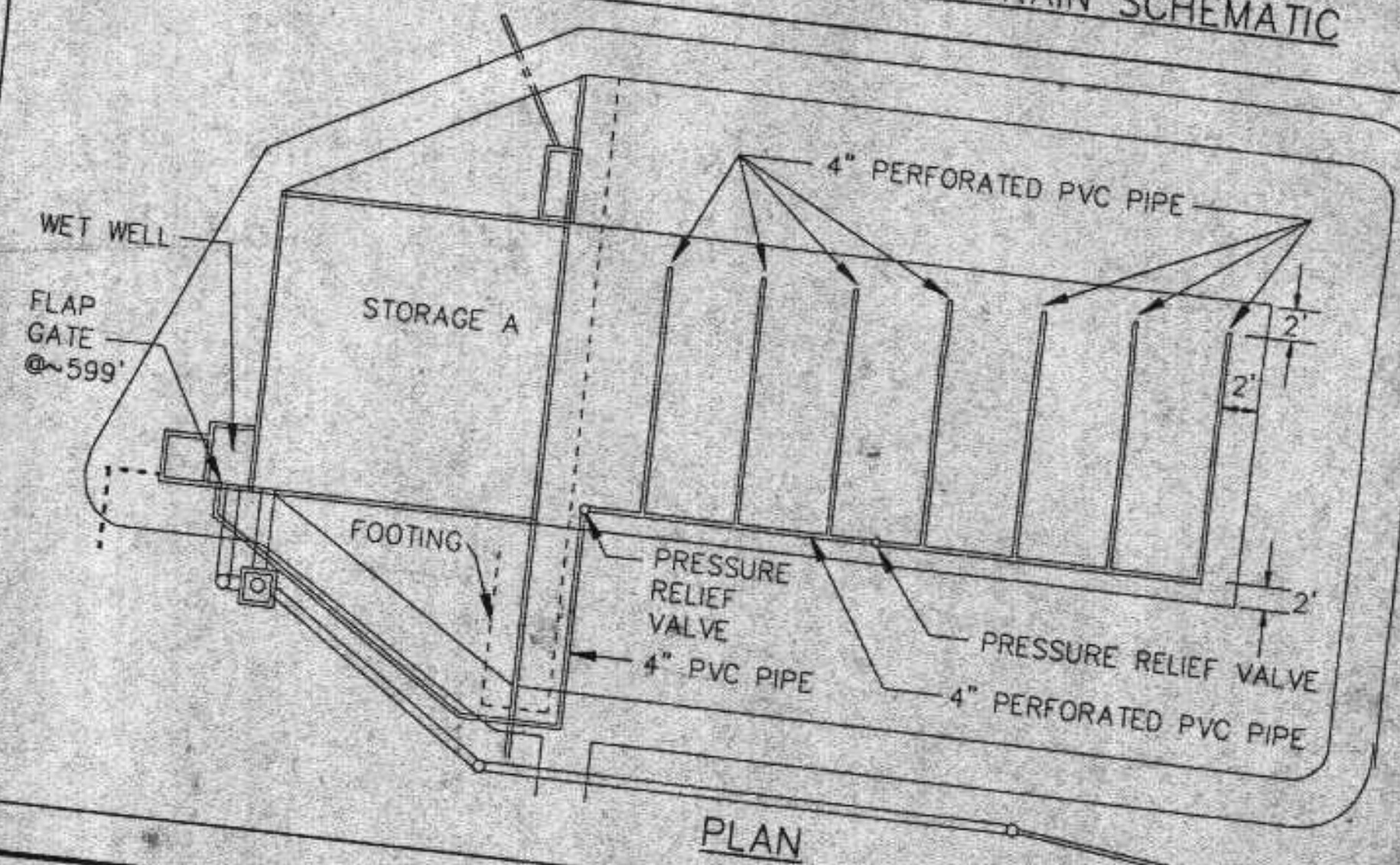
SHEET G-3
 OF _____ SHEET
 PROJECT NO. 3899-03

LIFT STATION DIVERSION STRUCTURES

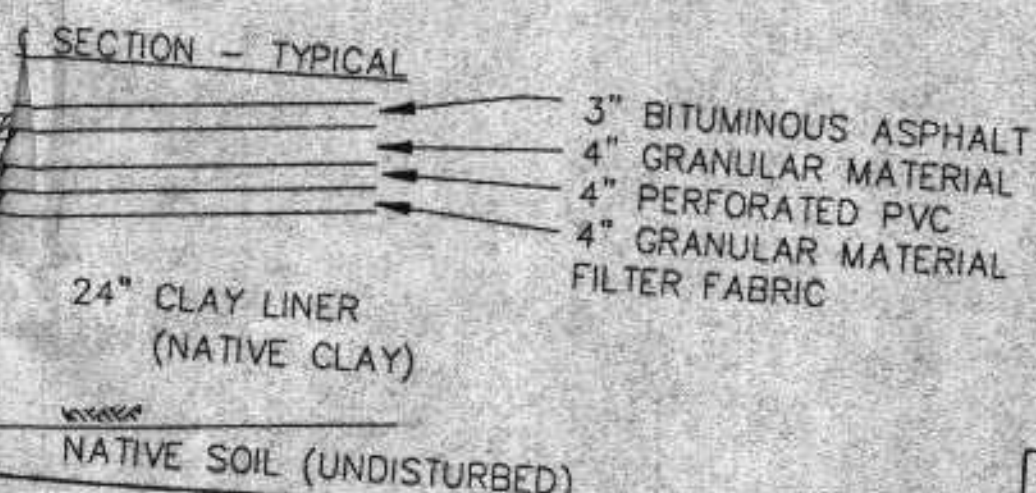
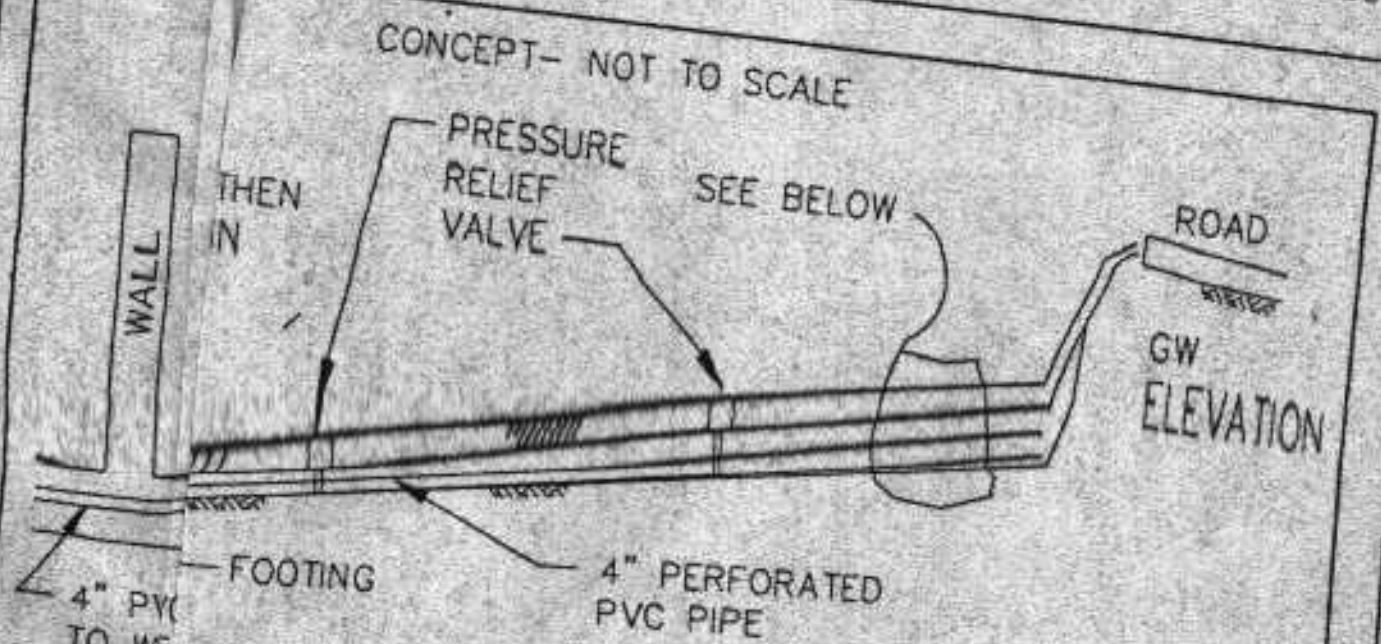
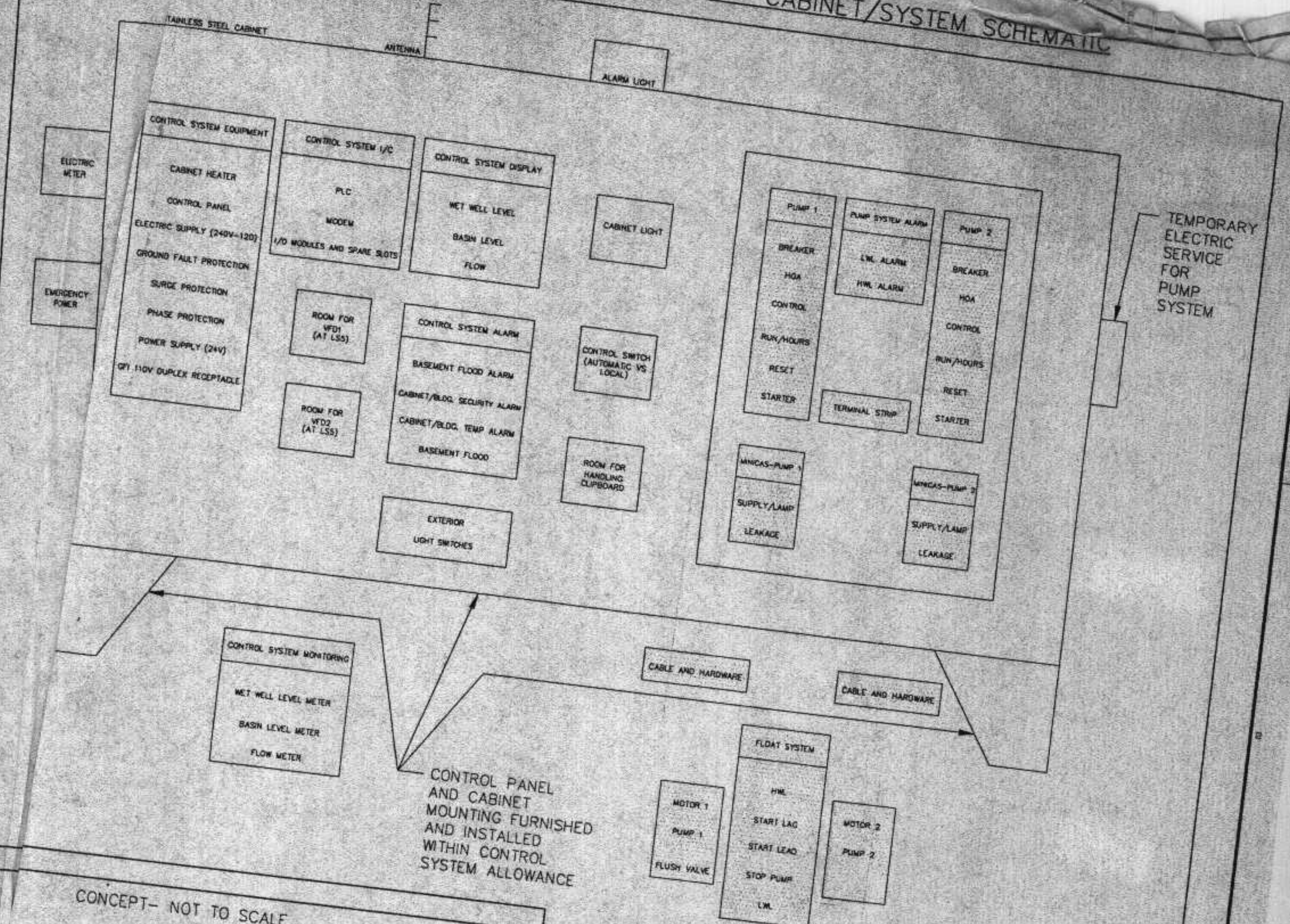


DIVERSION STRUCTURES—LIFT STATIONS 5, 6, AND 7			
ATTRIBUTE	LS 5	LS 6	LS 7
A INVERT ELEVATION (FT)	604.24	605.9	605.1
B RIM ELEVATION (FT)	~616	~614	~614
C MINIMUM WEIR ELEVATION (FT)	612.25	609.25	609.25
D MAXIMUM WEIR ELEVATION (FT)	613.75	610.75	610.75
E WEIR WALL ELEVATION (FT)	614.5	611.5	611.5
F WEIR WIDTH (FT)	6.0	6.0	6.0
G BAFFLE SIZE (FT X FT)	3H X 8W	3H X 8W	3H X 8W
H SLIDE GATE SIZE—DWF OUT (IN X IN)	24 X 24	12 X 12	12 X 12
I OVERFLOW INVERT ELEVATION (FT)	605.1	605.0	605.0
J OVERFLOW PIPE DIAMETER (IN)	24	12	12
K EXTREME GROUNDWATER LEVEL (FT)	GRADE	GRADE	GRADE
DESIGN MAXIMUM OVERFLOW (CFS)	10.0	5.4	5.0

LIFT STATION 7 - UNDERDRAIN SCHEMATIC



LIFT STATION PUMP AND CONTROL SYSTEMS -- CABINET/SYSTEM SCHEMATIC



- PUMP AND CONTROL SYSTEM NOTES
- GENERAL CONTRACTOR
 - INCLUDE ALLOWANCE COST IN BID. INCLUDE ALL INCIDENTAL WORK FOR COMPLETE SYSTEM, COORDINATION, MOUNTING OF PANEL, ALL ELECTRIC SERVICE, ELECTRIC AND CONTROL SYSTEM, CONDUIT AND WIRING, FURNISH AND INSTALL COMPLETE PUMP SYSTEM, PROVIDE COMPLETE LIFT STATION OPERATION, MONITORING AND ALARM IRRESPECTIVE EQUIPMENT/WORK OF THE ALLOWANCE. MOUNTING OF BRACKETS FOR ULTRASONIC LEVEL MONITORS. REMOVE AND STORE EXISTING PLC, AND RADIO SYSTEM. MOUNTING OF BRACKETS FOR ULTRASONIC LEVEL MONITORS. REMOVE AND STORE EXISTING PLC, AND RADIO SYSTEM.
 - CONTROL SYSTEM ALLOWANCE
 - THIS ALLOWANCE SHALL INCLUDE THE FOLLOWING: CONTROL SYSTEM PER THIS DRAWING AND SPECIFICATION 16950". PANEL AND PEDESTAL WITH ROOM FOR GENERAL CONTRACTOR'S PUMP SYSTEM. MOUNTING WET WELL LEVEL MONITORS, SPECIAL CONTROL WIRES, AND METER CALIBRATION.

PANEL BOARD SCHEDULE

BRANCH CIRCUIT		MAINS 50 AMP MAIN BREAKER, 100 AMP MAIN	
DESIGNATION	No. No.	DESIGNATION	No. No.
WEIR GATE OPERATOR	1 2	ULTRASONIC	3 4
*LIGHT POLE	5 6	*LIGHT POLE	7 8
*LIGHT POLE	9 10	SPARE	11 12
GFI	13 14	SPARE	15 16

* NUMBER OF GFI CIRCUIT BREAKERS DEPENDENT ON SITE LOCATIONS
ALL CIRCUIT BREAKERS 20 AMP

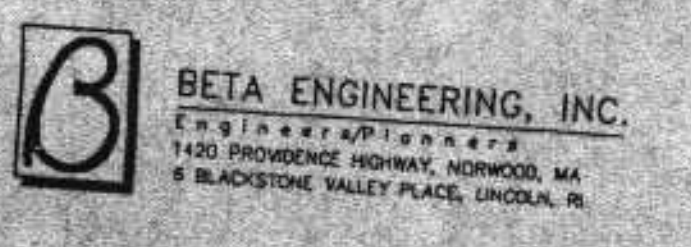
FEEDER/BRANCH CIRCUIT SCHEDULE

ITEM	VOLTAGE	PH	MOTOR HP	AMPERE	WIRE SIZE	CONDUIT SIZE	REMARKS
SERVICE ENTRANCE	240/120	3		100	2	1-1/4"	
CONTROL PANEL	240	3		100	2	1-1/4"	LOCATION AS REQUIRED
PUMP MOTOR NO. 1	240	3	20/10*	27/14*	10/12*	3/4"	
PUMP MOTOR NO. 2	240	3	20/10*	27/14*	10/12*	3/4"	
LIGHT PANEL	240	1		50	8	3/4"	*10 HP AT LIFT STATION NO. 7 ONLY
MAGNETIC FLOW METER POWER	120	1		12	12	3/4"	*SEE LIGHT POLE LAYOUT FOR EACH STATION
MAGNETIC FLOW METER CONTROL	120	1		12	12	3/4"	12 CIRCUIT LIGHTING PANEL 100 AMP MAINS
ULTRASONIC METER POWER	120	1		12	12	3/4"	CONNECT AS REQUIRED
ULTRASONIC METER CONTROL	120	1		12	12	3/4"	MANUFACTURER RECOMMENDED SIGNAL CABLE
WEIR GATE POWER	120	1		12	12	3/4"	CONNECT AS REQUIRED
WEIR GATE CONTROL	120	1	33	7.2	2/C	3/4"	MANUFACTURER RECOMMENDED SIGNAL CABLE
					4/#14	3/4"	FUTURE USE
							FUTURE USE

DESIGNED D.W.
DRAWN B.H.P.
CHECKED _____
DATE _____

NO. DATE DESCRIPTION APPROVED

SCALE
NO SCALE

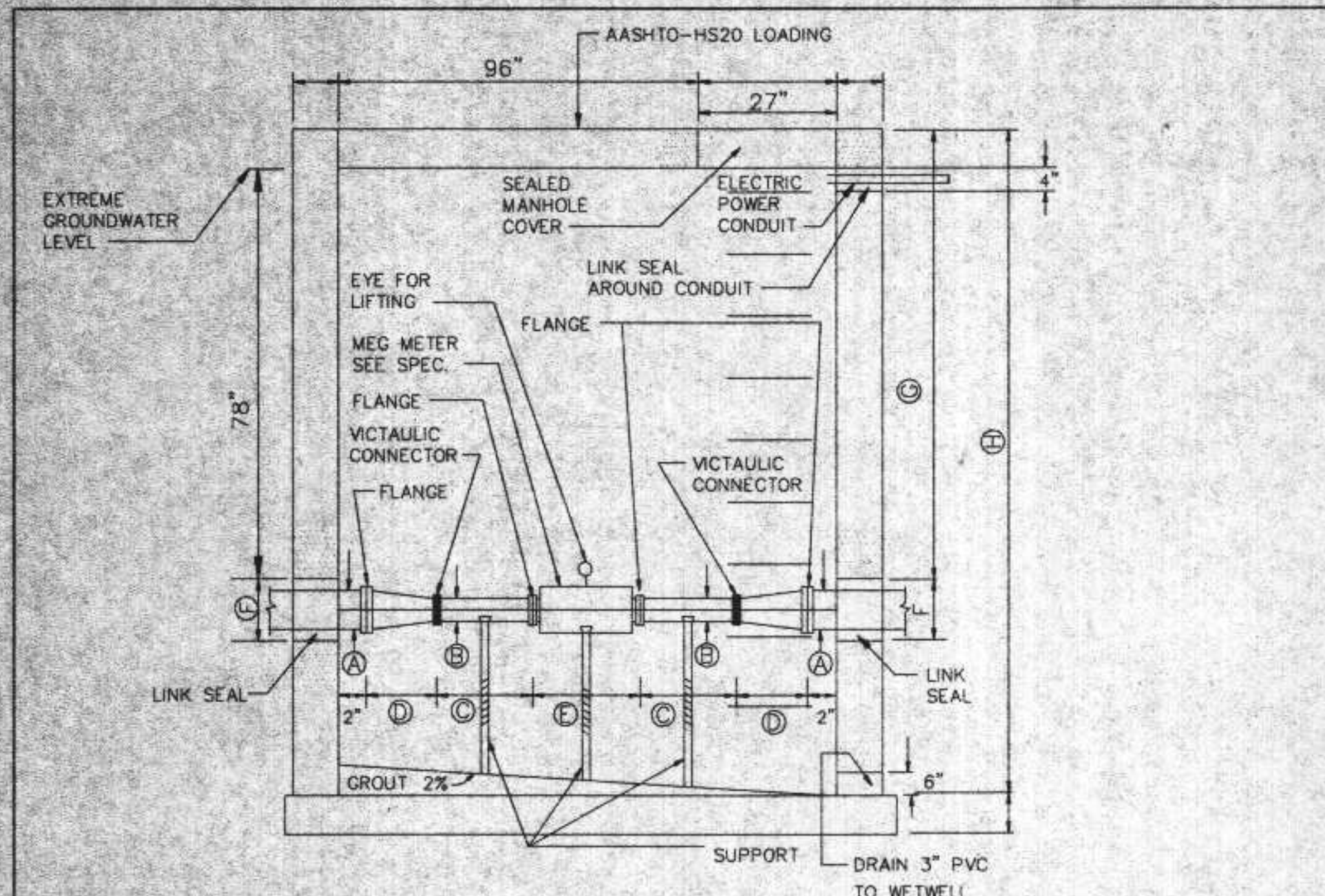


CITY OF SUPERIOR, WISCONSIN
DEPARTMENT OF PUBLIC WORKS

CONTRACT NO. 3
LIFT STATION & STORAGE IMPROVEMENTS

SHEET G-6
OF SHEETS
PROJECT NO. 3899-03

METER MANHOLE



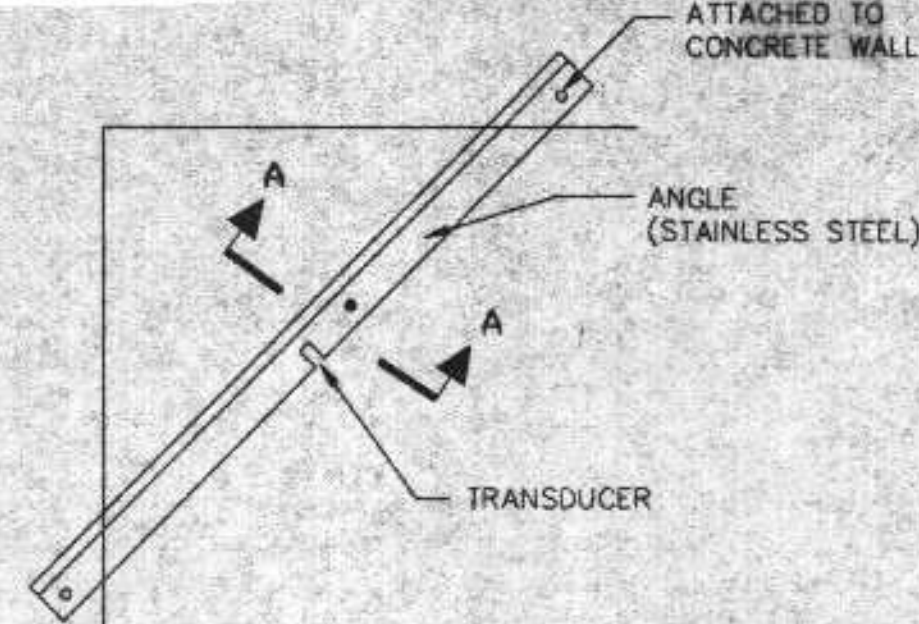
	LS 5	LS 6	LS 7
LINK SEAL/FORCE MAIN OD/ID	10"/6"	10"/6"	8"/4"
LINK SEAL/CONDUIT OD/ID	8"/4"	8"/4"	8"/4"
LINK SEAL/DRAIN OD/ID	8"/4"	8"/4"	8"/4"
FORCE MAIN Ø, (A)	8"	8"	6"
MAG METER Ø, (B)	6"	6"	4"
MAG METER L, (C)	~12"-18"	~12"-18"	~12"-18"
ENLARGEMENT/REDUCER SMALL Ø, LARGE Ø	8"/6"	8"/6"	6"/4"
SMALL Ø PIPE L, (D)	18"	18"	12"
ENLARGEMENT/REDUCER L, (E)	11"	11"	9"
FORCE MAIN PENETRATION, OD (F)	10"	10"	8"
GRADE TO F.M. INVERT (G)	8'	6.15'	6'
GRADE TO DRAIN INVERT (H)	9'	7.15'	7'

NOTES:

- EXTREME GROUNDWATER ELEVATION IS AT GRADE.
- EARTH COVER 0'-0".
- DESIGN LOADING - AASHTO HS 20-44
- PLAN VIEW SHAPE = SQUARE OR CIRCULAR.
- STRUCTURE SHALL BE SEALED TO EXTERNAL WATER SOURCES.
- D.I.P. SPOOL WITH VITAUIC TYPE ENDS TO BE PROVIDED AT ALL METER MANHOLES. SPOOL LENGTH TO BE 2xL+E. PAINTED AS DIRECTED BY OWNER OR ENGINEER.

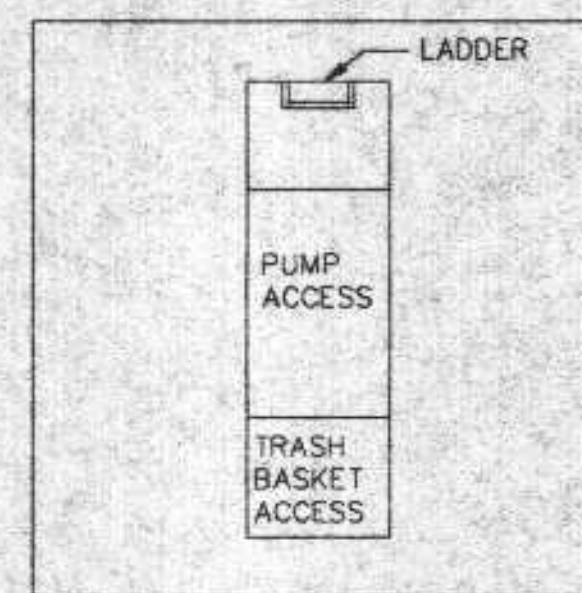
ULTRASONIC LEVEL METER

- General Notes:
 1. Supports to be 316 Grade L stainless steel
 2. Provide spare DIP to be available in each meter manhole for replacement of magnetic flow meter and pipe end pieces when removed.

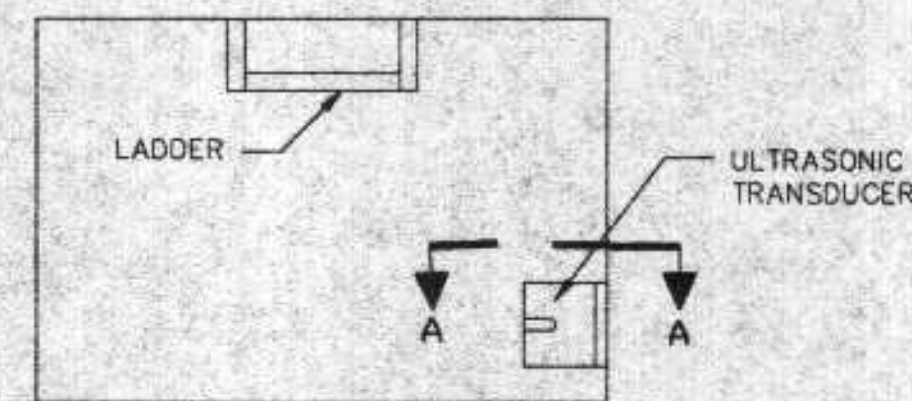


EXTERIOR BRACKET (STORAGE)

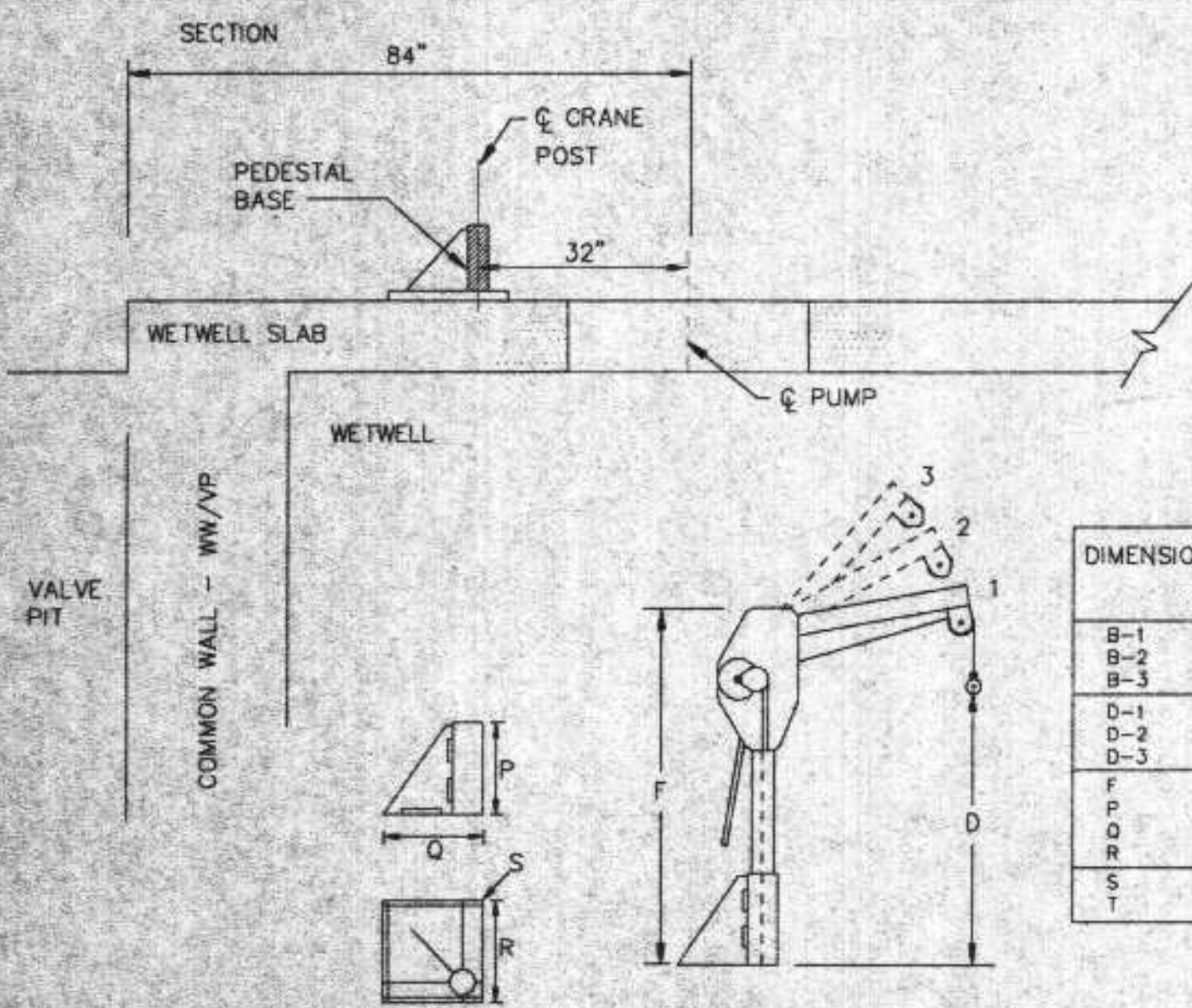
PLAN



INTERIOR BRACKET (WET WELL)



SECTION A - A



DAVIT CRANE

(THERN PORTABLE DAVIT CRANE MODEL NO. 5123M1SS)

DIMENSIONS	MODEL 5123M1SS	
	WITH 523SS BASE	WITH 523SF BASE
B-1	32.0 IN	32.0 IN
B-2	31.0 IN	31.0 IN
B-3	28.0 IN	28.0 IN
D-1	41.0 IN	27.0 IN
D-2	50.0 IN	36.0 IN
D-3	59.0 IN	45.0 IN
F	56.0 IN	42.0 IN
P	14.0 IN	14.0 IN
Q	14.5 IN	-
R	15.9 IN	9.0 IN
S	.69 IN	-
T	.38 IN	.38 IN

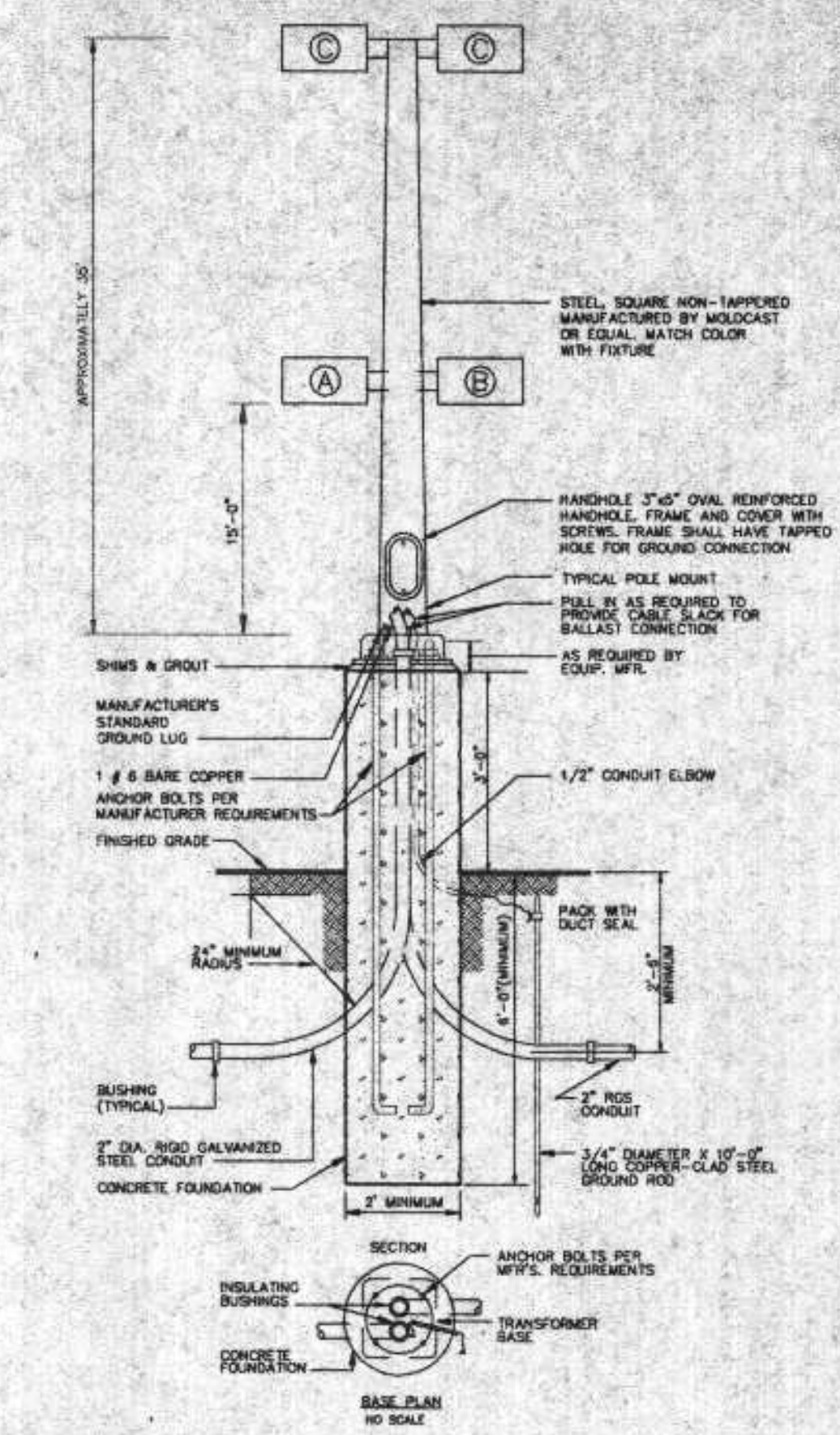
LIGHT POLE

LIGHTING POLE TYPE	EQUIPMENT REQUIREMENTS		
	FIXTURE TYPE	QUANTITY	CONTROL
I	(A)	1	PHOTO CONTROL
	(B)	1	CONTROL PANEL INTERIOR SWITCH
	(C)	2	CONTROL PANEL INTERIOR SWITCH
II	(C)	2	CONTROL PANEL INTERIOR SWITCH
III	(A)	1	PHOTO CONTROL
	(B)	1	CONTROL PANEL INTERIOR SWITCH
	(C)	3	CONTROL PANEL INTERIOR SWITCH

- (A) 150 WATT HIGH PRESSURE SODIUM WITH PHOTO CONTROL, AND TYPE III REFLECTOR AS MANUFACTURED BY MOLDCAST MODEL NO. MF 1325-24-7-3-0-XX-PCR OR EQUAL.
- (B) 400 WATT METAL HALIDE SWITCHED, WITH TYPE IV REFLECTOR AS MANUFACTURED BY MOLDCAST MODEL NO. MF 2441-24-7-3-0-XX.
- (C) 400 WATT HIGH PRESSURE SODIUM SWITCHED, WITH TYPE III REFLECTOR AS MANUFACTURED BY MOLDCAST MODEL NO. MF 2340-24-N-3-0-XX.
- N = # OF FIXTURES REQUIRED AS DESCRIBED IN LIGHTING FIXTURE TYPE SCHEDULE.
- XX = COLOR TO BE DETERMINED BY OWNER.

POLE - 35 FEET SQUARE STEEL NON-TAPERED AS MANUFACTURED BY MOLDCAST MODEL NO. S1635JB, COLOR TO BE DETERMINED BY OWNER.

- THE VOLTAGE FOR ALL FIXTURES SHALL BE 240 VOLT.
- SWITCHES MOUNTED IN CONTROL PANEL SHALL BE 20 AMP.
- MINIMUM WIRE SIZE SHALL BE #10 AWG, THHW. CALCULATE VOLTAGE DROP AND RESIZE WIRE AS NECESSARY.
- INCLUDE ALL WIRE, CONDUIT, MOUNTING EQUIPMENT AND ALL APPURTENANCES NECESSARY FOR A COMPLETE INSTALLATION.
- PRIOR TO ORDERING CONSULT WITH OWNER ON DIRECTION AND ANGLE OF FIXTURE MOUNTS.
- ALL POLES MUST BE FACTORY DRILLED FOR THE FIXTURES SPECIFIED.
- MODEL NO. WERE AS OF 6/96. VERIFY WITH MANUFACTURER PRIOR TO BIDDING.

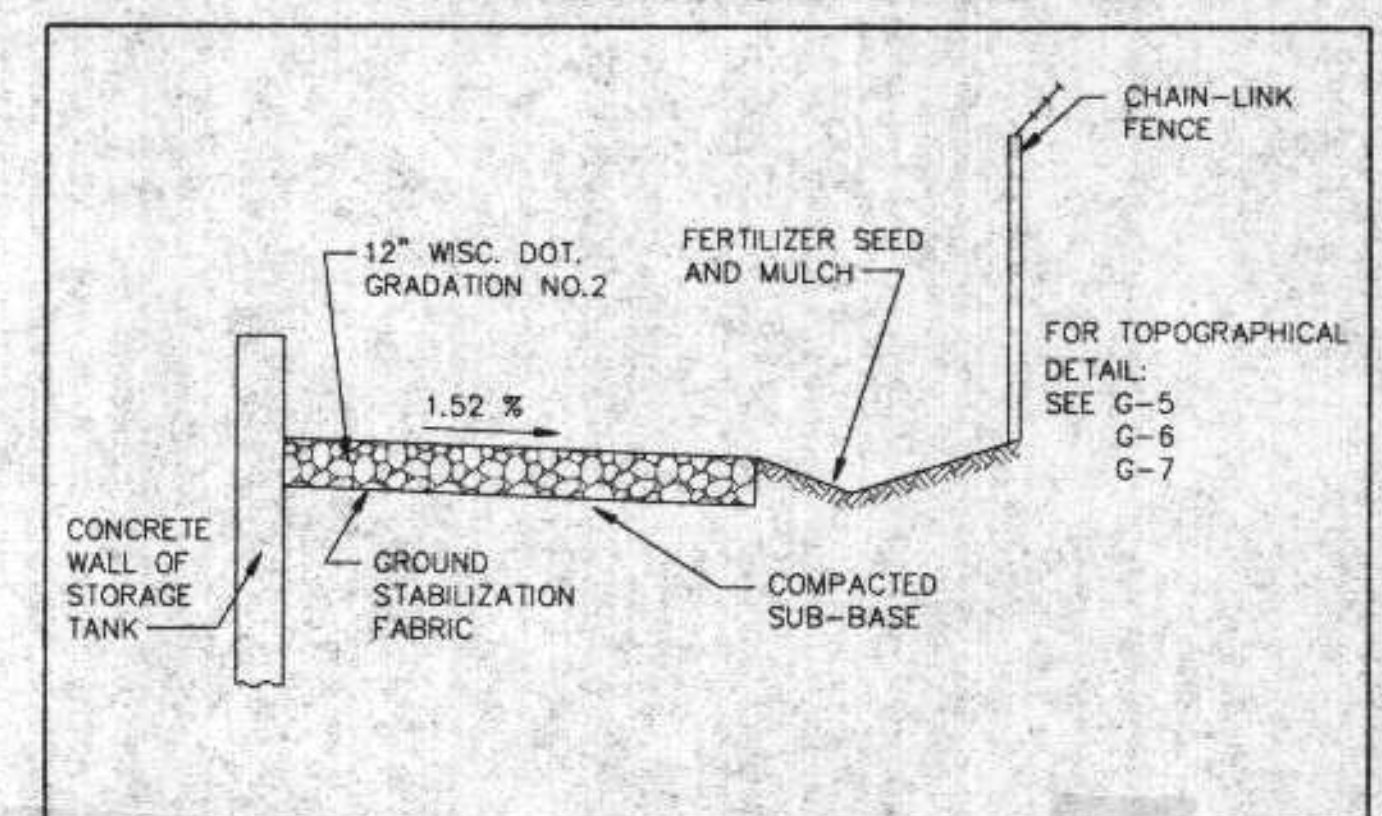


TYPICAL POLE FOUNDATION DETAIL

Add following to light pole drawing:

- 120 V, 20 Amp, GFCI, weatherproof duplex receptacle to be provided at base of all light poles. Receptacles to be switched at control panel.
- Switches to control yard lighting to be housed in control panel.

ACCESS ROAD - BASE



Sheet G-7:

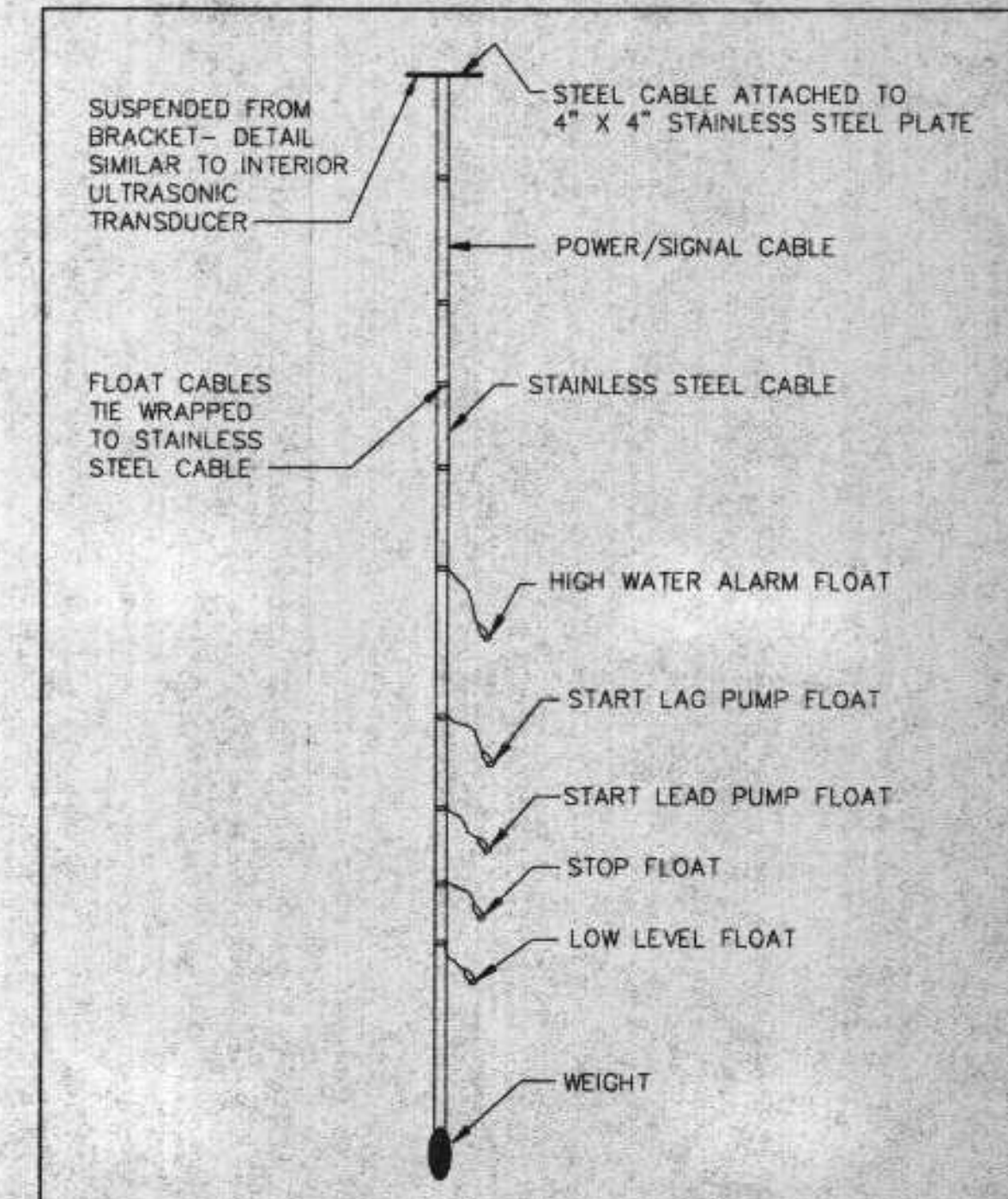
- Remove davit crane drawing and information (see revised crane in Item 6 of Specifications above).
- Rename Ultrasonic Level Meter Drawing as Level Meters and modify Section A-A with the following:

Ultrasonic Level Meter Transducer Bracket/Assembly Notes:
 1. All hardware and brackets to be stainless steel.
 2. 1/4" lip to be provided on bracket.

Float Tree Bracket/Assembly Notes:
 1. Float tree cable to be stainless steel and attached to 1/4" stainless steel plate for placement on bracket.
 2. All hardware and brackets to be stainless steel.
 3. 1/4" lip to be provided on bracket.
 4. Stainless steel handle for lifting of float system to be provided.

- Add following to meter manhole drawing:

(FLOAT TREE)



WETWELL FLOAT SUPPORT

W:\PROJECTS\3899-03\3899-03-12\3899-03-12.dwg - Plotter on 7/2/18, @ 11:30 P.M. by MDC/STW

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED	D.W.
DRAWN	B.H.P.
CHECKED	
DATE	

SCALE
NO SCALE

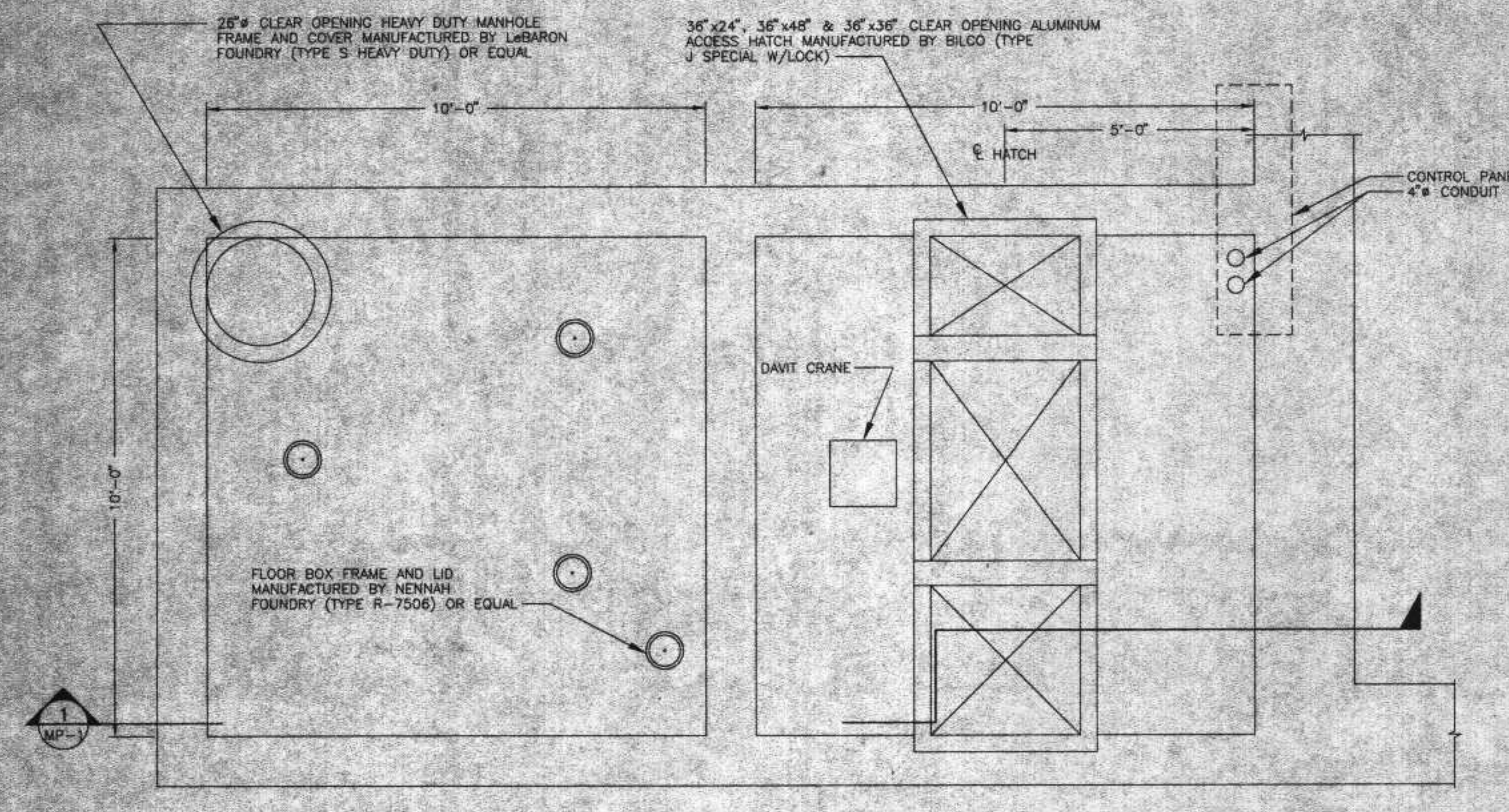


CITY OF SUPERIOR, WISCONSIN
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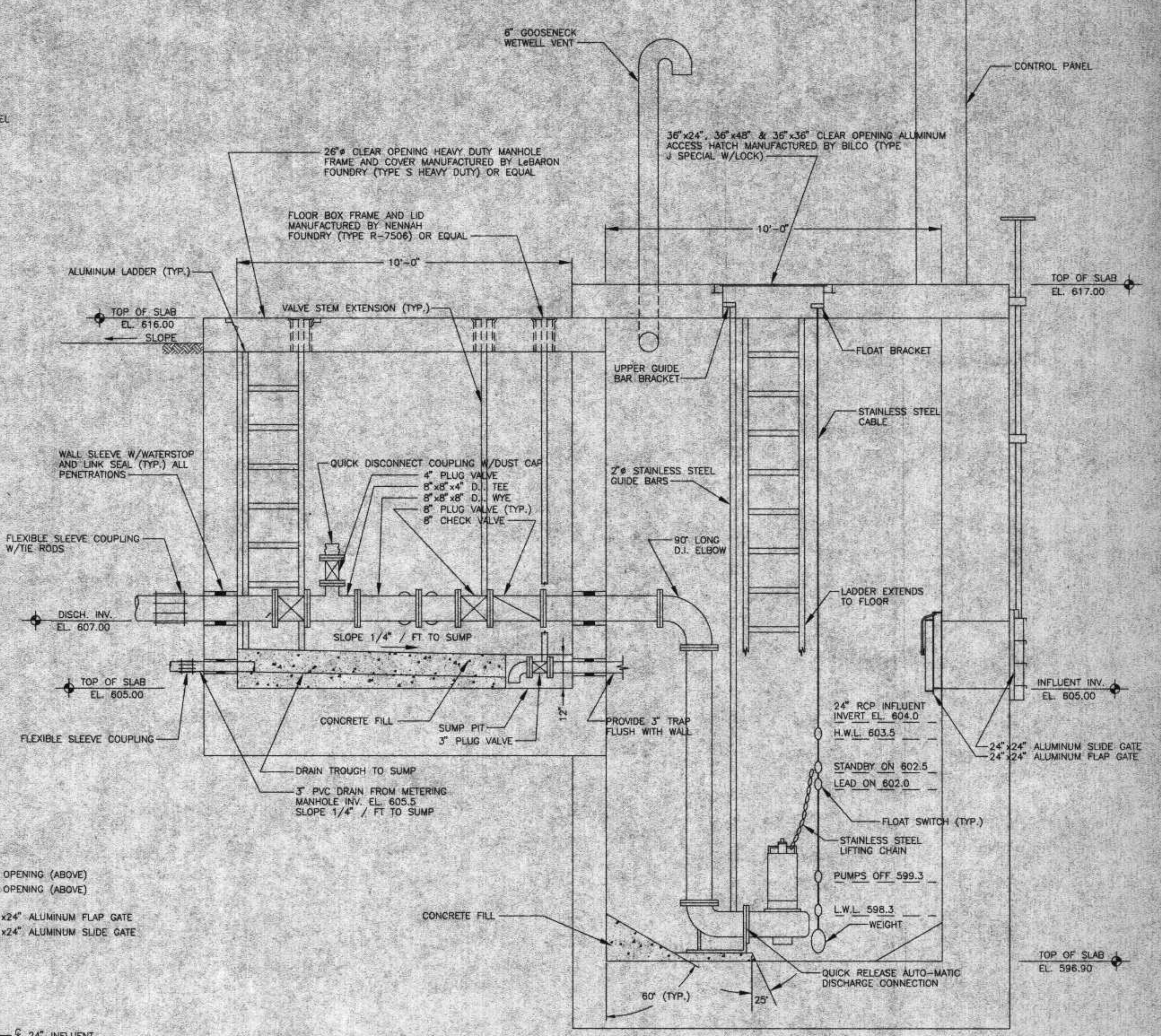
CONTRACT NO. 3

LIFT STATION & STORAGE IMPROVEMENTS

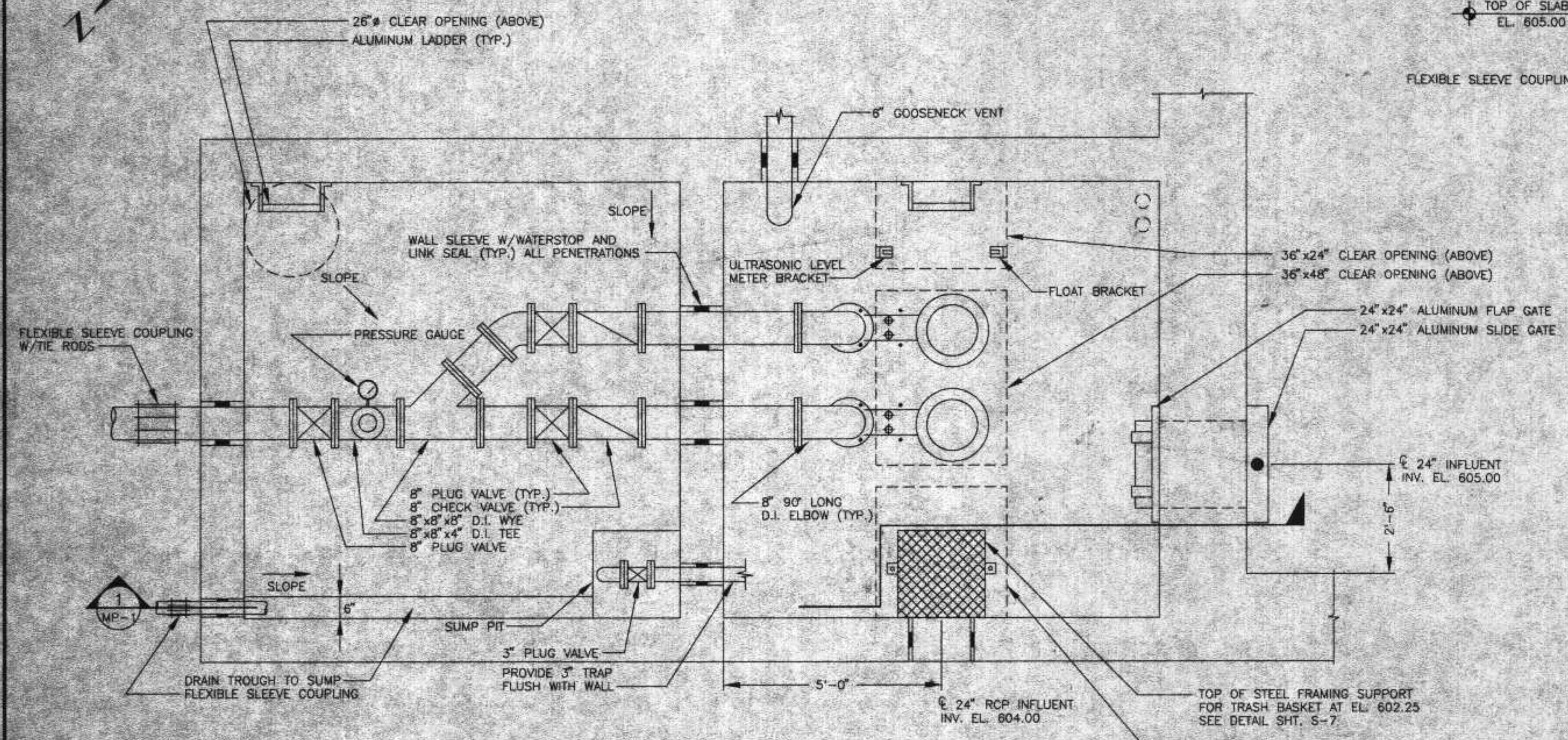
SHEET G-7
OF SHEETS
PROJECT NO. 3899-03



LIFT STATION No. 5 (UPPER)
SCALE: 1/2" = 1'-0"



SECTION 1
SCALE: 1/2" = 1'-0"
MP-1



LIFT STATION No. 5 (LOWER)
SCALE: 1/2" = 1'-0"

PUMP SCHEDULE

1. Replace Pump Schedule with the following:

LOCATION	NAME	QTY.	TYPE	RATING POINTS	MINIMUM DISCHARGE (INCHES)	MAX. PUMP RPM	MAX. HP	SEAL TYPE
L.S. 5	sewage pump	2	submersible recirculating	single: 1075 gpm @ 37" discharge: 1500 gpm @ 47" discharge: 2000 gpm @ 50" discharge: 1100 gpm @ 62" discharge: 350 @ 62" discharge: 450 @ 62"	6"	1745	20	double mechanical
L.S. 6		2			6"	1750	20	DOUBLE MECH.
L.S. 7		2			4"	1748	10	DOUBLE MECH.

- GENERAL NOTES:
- DIMENSIONS TO SUIT EQUIPMENT MANUFACTURER'S AND ENGINEER'S RECOMMENDATIONS.
 - CONTRACTOR TO PROVIDE PROPER SUPPORT FOR PIPING BOTH DURING AND AFTER CONSTRUCTION.
 - Valve pit ladders to be aluminum suretrack ladders with suretrack climbing system as manufactured by Miller Equipment, Franklin, PA.
 - WET WELL NOT DESIGNED TO HANDLE VEHICULAR TRAFFIC.
 - Wet well is a Class II, Div 2 area.
 - Wet well ladder to be 316 grade L stainless steel. Fall protection is not to be provided.

- Guide rails for pumps and trash baskets to be 316 grade L stainless steel.
- Add General Note 7 as follows:
Stainless steel lifting chain to be load rated for 1 ton and sufficiently long for attachment to cable hoist of Davit crane.
- Add General Note 8 as follows:
One spare T-handle to be provided and stored in each valve pit.

NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION

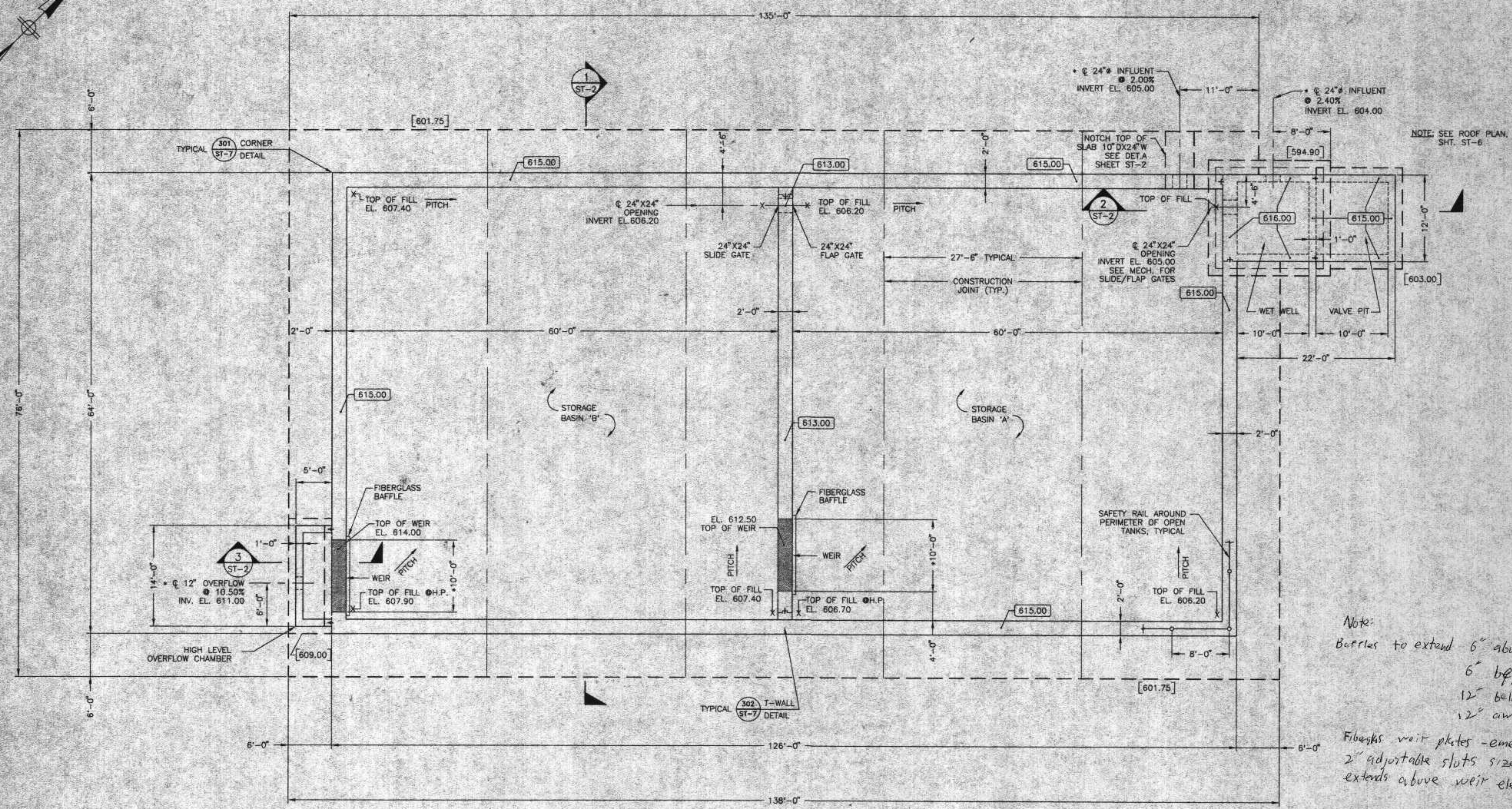
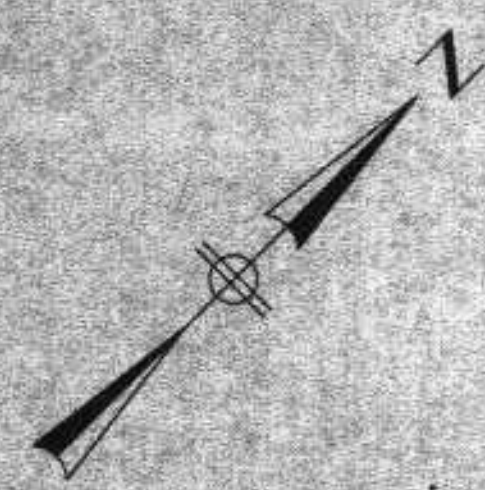
DRAWN BY	GS
DEPT. CHECK	JF
PROJ. CHECK	JF

BETA ENGINEERING, INC.
Engineers/Planners

SCALE: 1/2" = 1'-0"

LIFT STATION NO. 5
WISCONSIN
LIFT STATION PLAN / SECTION
MECHANICAL

JOB: 632
DATE: JUNE 26, 1996
FILE: 632MP1.DWG
SHEET: MP-1



Note:
 Baffles to extend 6" above weir elev
 6" beyond weir ends
 12" below weir
 12" away from wall
 Fiberglass weir plates - emergency overflow weirs
 2" adjustable slots sized so 4" of plate
 extends above weir elev when closed

FOUNDATION PLAN - LIFT STATION No. 5
 SCALE: 1/8" = 1'-0"

- LEGEND:**
- 1. [601.75] - INDICATES BOTTOM OF FOOTING
 - 2. X - INDICATES TOP OF CONCRETE FILL ELEVATION
 - 3. [615.00] - INDICATES TOP OF CONCRETE WALL
 - 4. * - COORDINATE WITH MECH./PROCESS DRAWINGS

NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
REVISIONS				

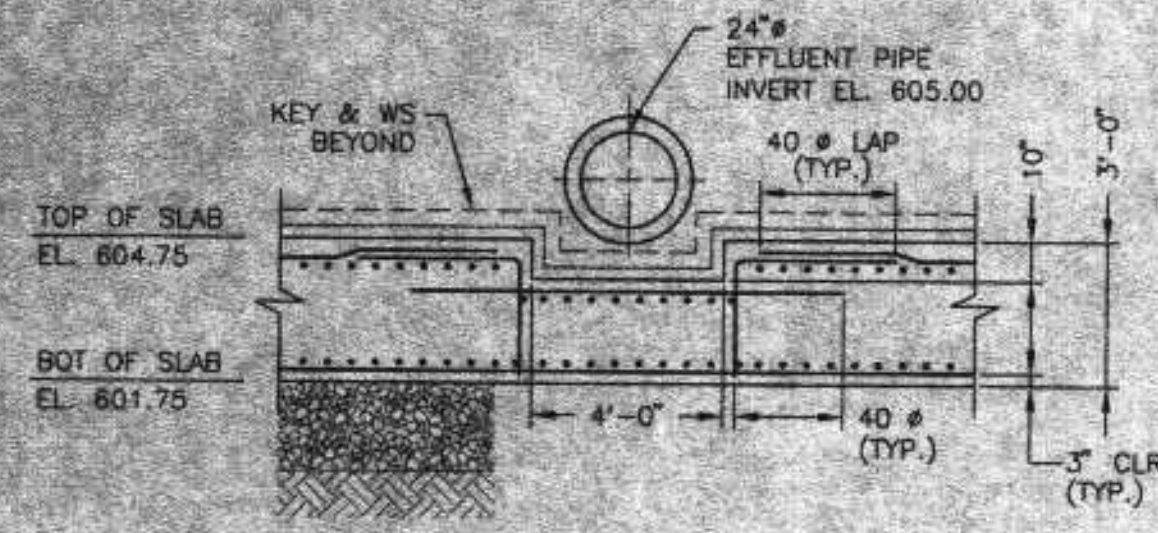
DRAWN BY	KAH
DEPT. CHECK	RSW
PROJ. CHECK	JF

BETA ENGINEERING, INC.
 Engineers/Planners

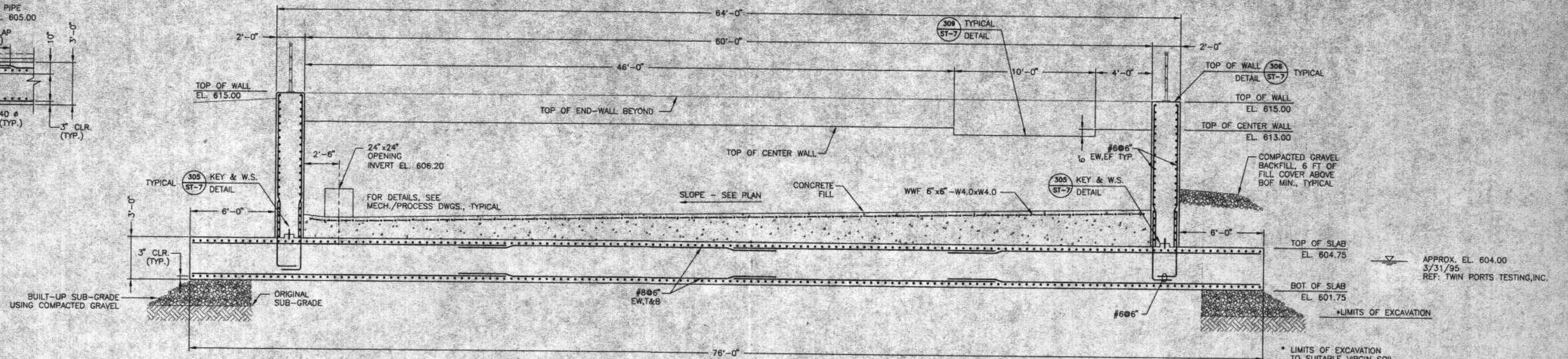
SCALE: 1/8" = 1'-0"

LIFT STATION NO. 5
 SUPERIOR, WISCONSIN
 FOUNDATION PLAN
 STRUCTURAL

JOB:	632
DATE:	JUNE 26, 1996
FILE:	632ST1.DWG
SHEET:	ST-1

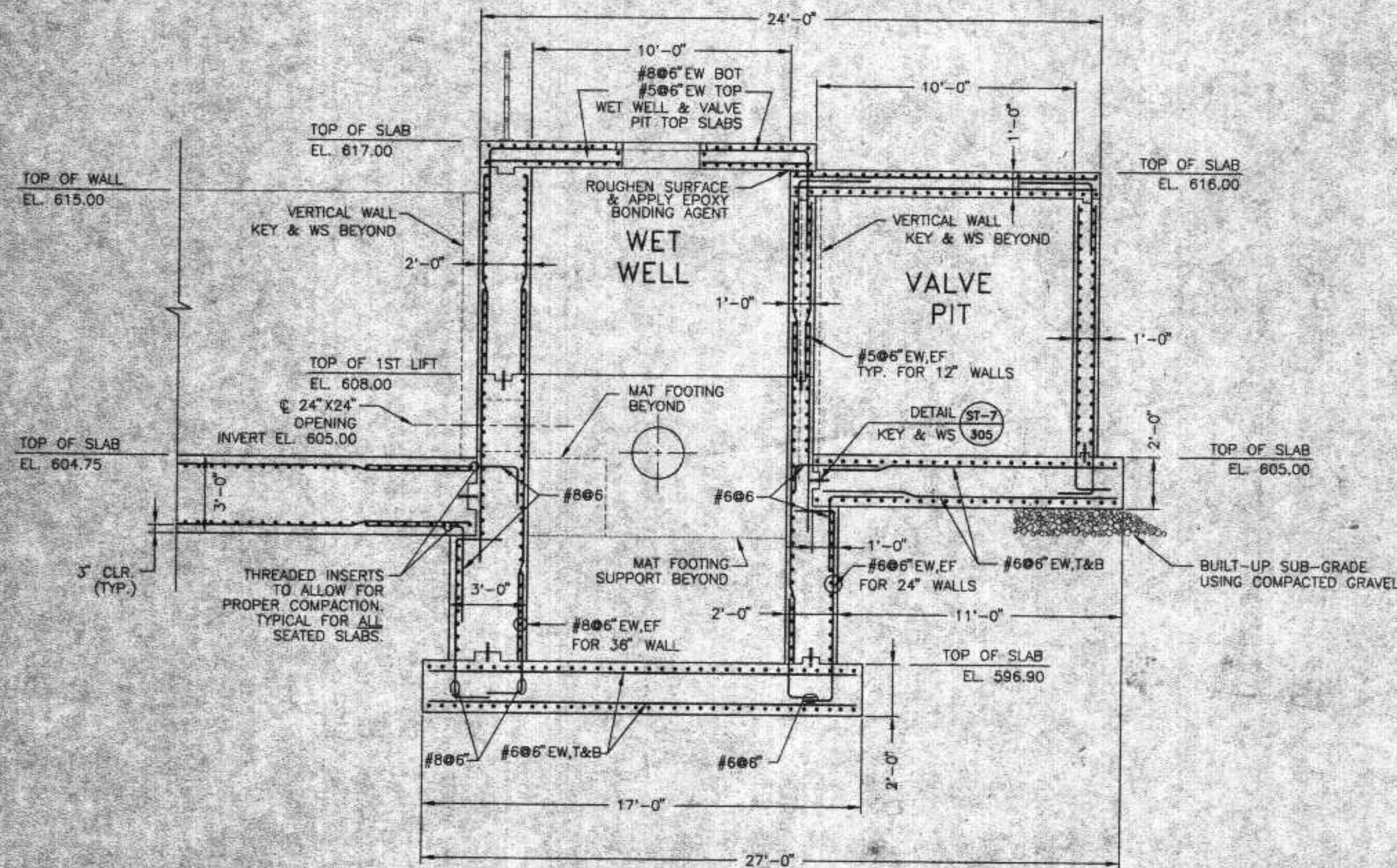


DETAIL A
SCALE: 1/4"=1'-0"

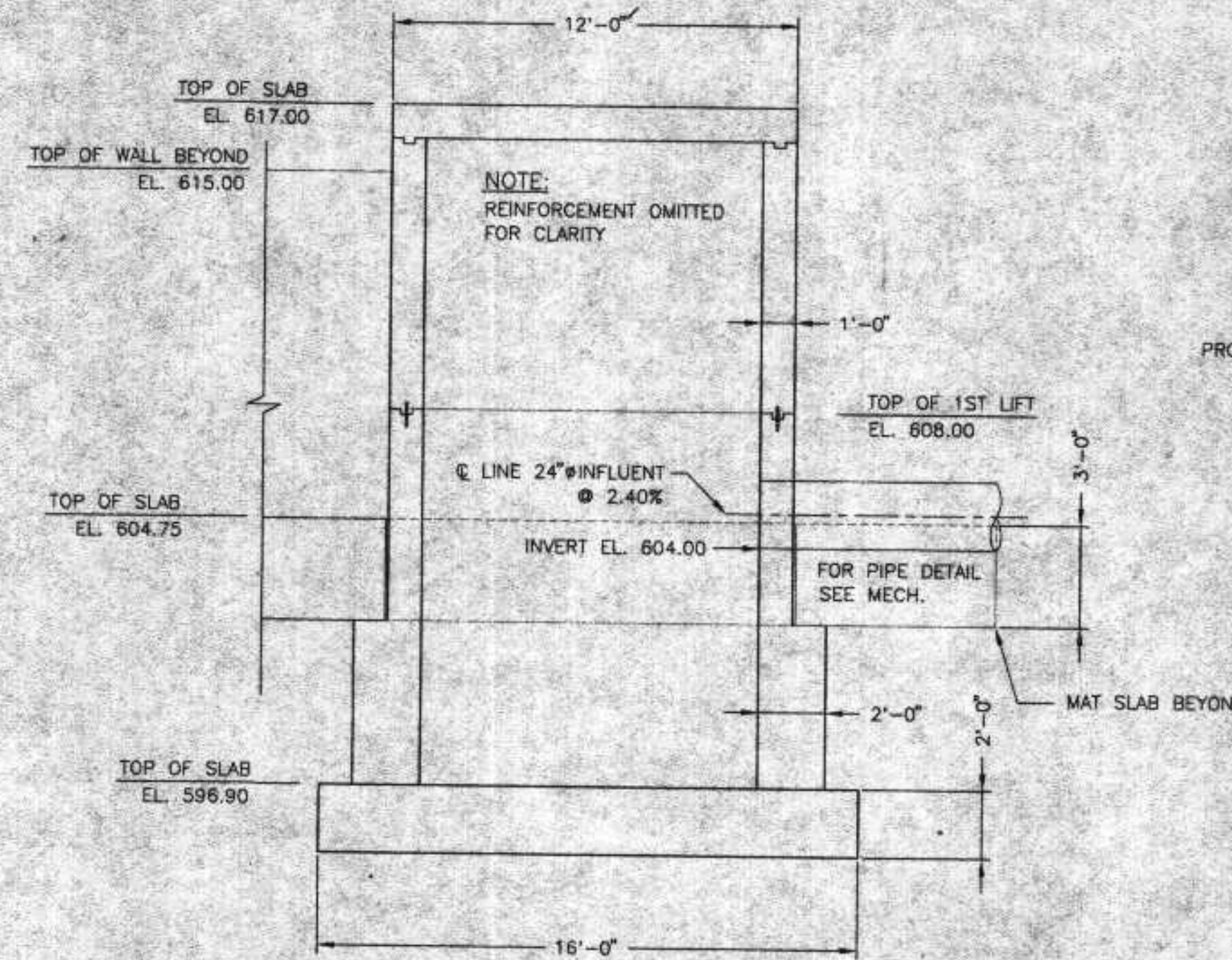


LIFT STATION No. 5

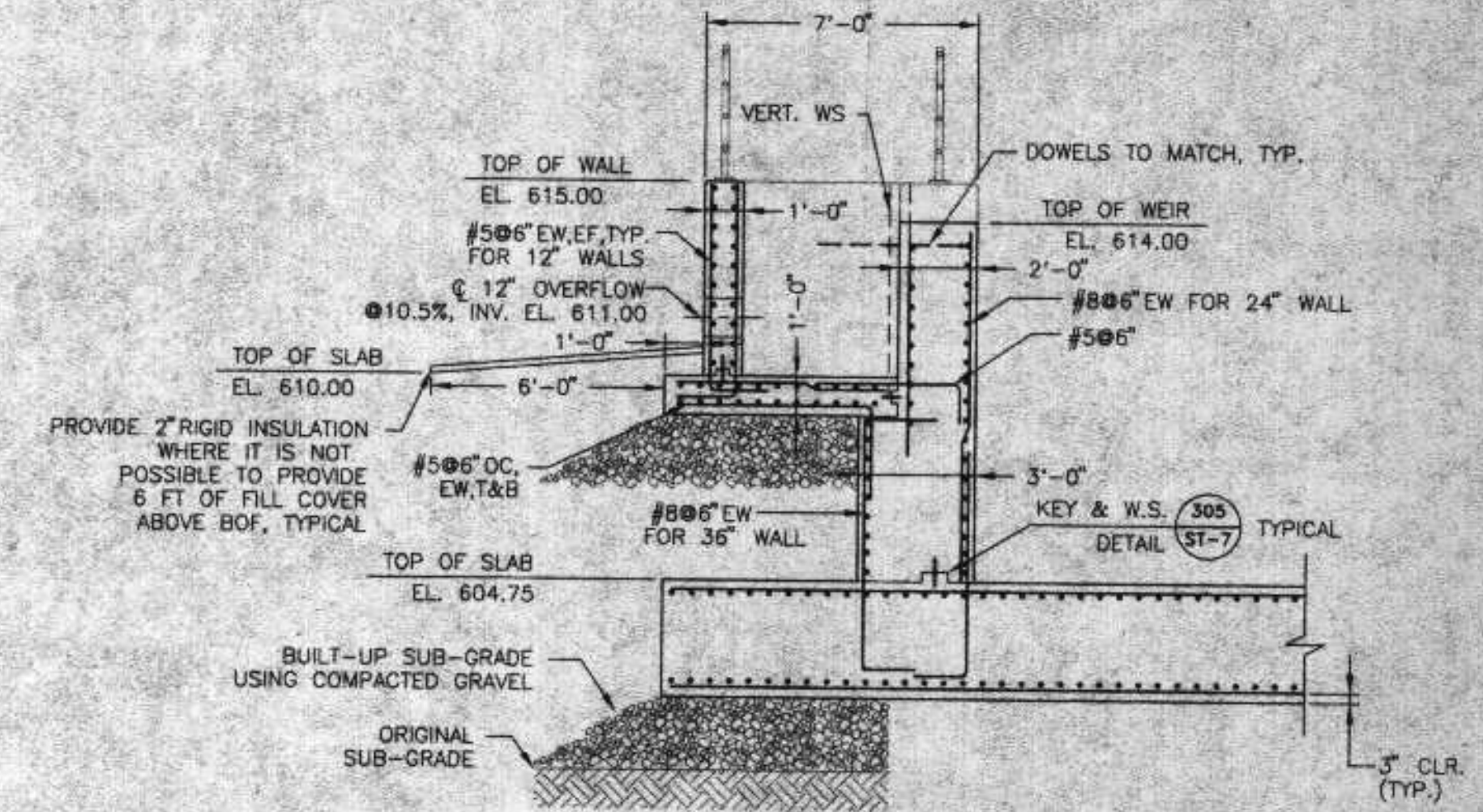
SECTION 1
SCALE: 1/4"=1'-0"



SECTION 2
SCALE: 1/4"=1'-0"



SECTION 3
SCALE: 1/4"=1'-0"



SECTION 4
SCALE: 1/4"=1'-0"

Sheets S-1, S-2, and S-3:

1. Add Note: baffles to extend 6 inches above concrete weir elevation, 6 inches beyond their ends, 12 inches below concrete weir elevation and 12 inches away from wall.
2. Add Note: fiberglass weir plates to be provided at emergency overflow weirs with 2" adjustable slots sufficiently sized so that 4" of plate extends above concrete weir elevation when centered.

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS	DESCRIPTION

DRAWN BY KAH
DEPT. CHECK RSW
PROJ. CHECK JF

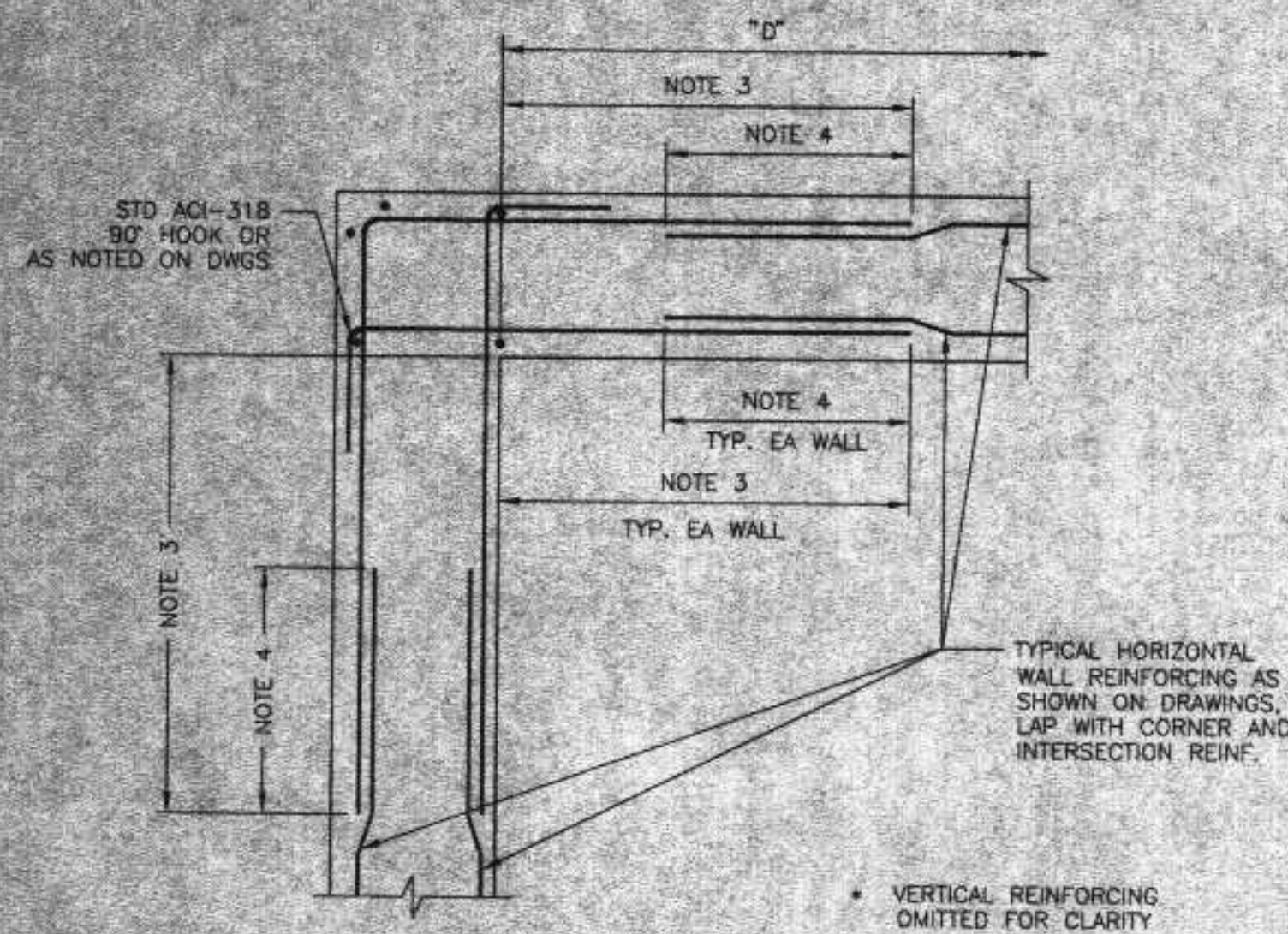
BETA ENGINEERING, INC.
Engineers/Planners

SCALE: 1/4"=1'-0"

LIFT STATION NO. 5
SUPERIOR, WISCONSIN

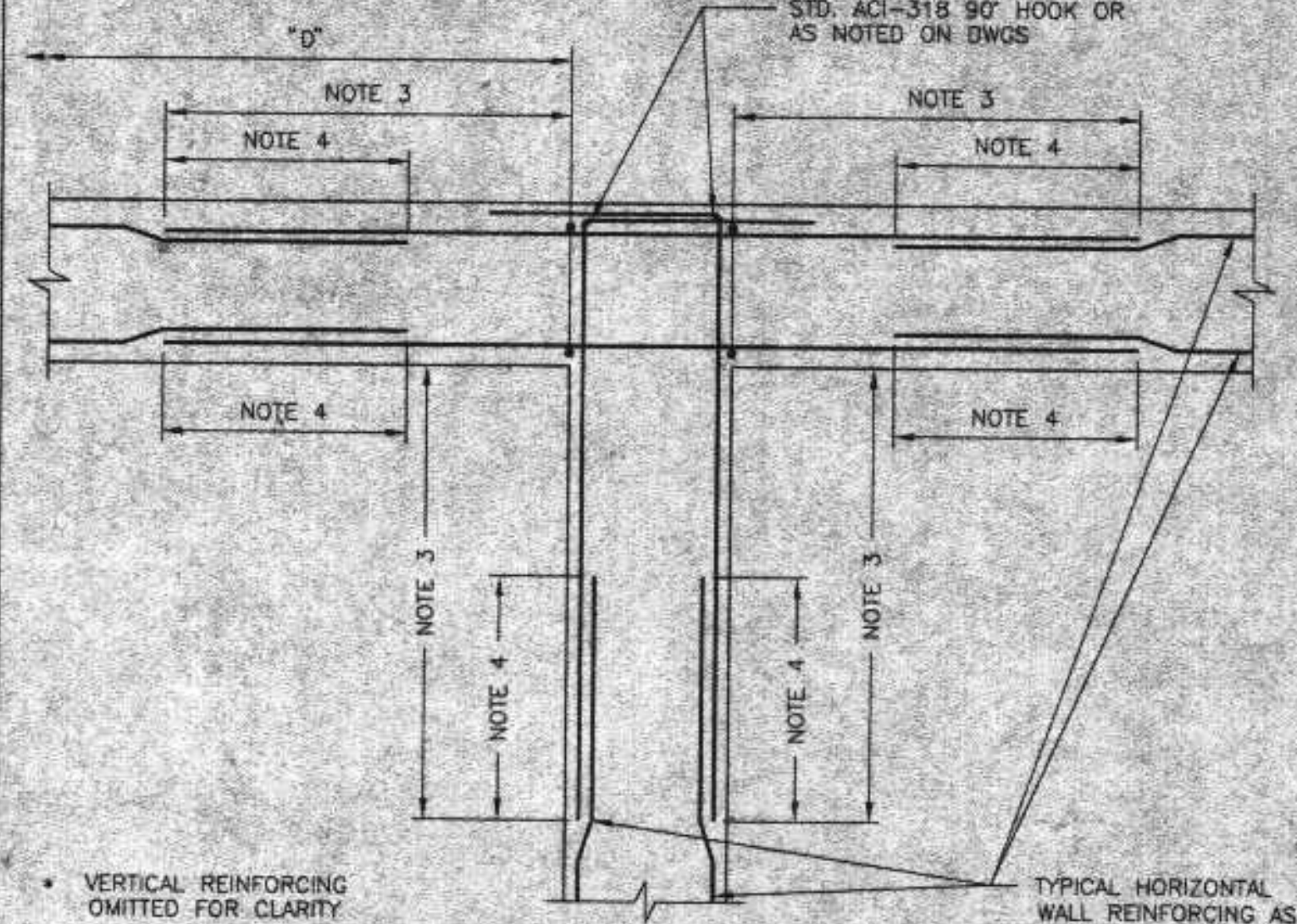
SECTIONS
STRUCTURAL

JOB: 632
DATE: JUNE 26, 1996
FILE: 632ST2.DWG
SHEET: ST-2



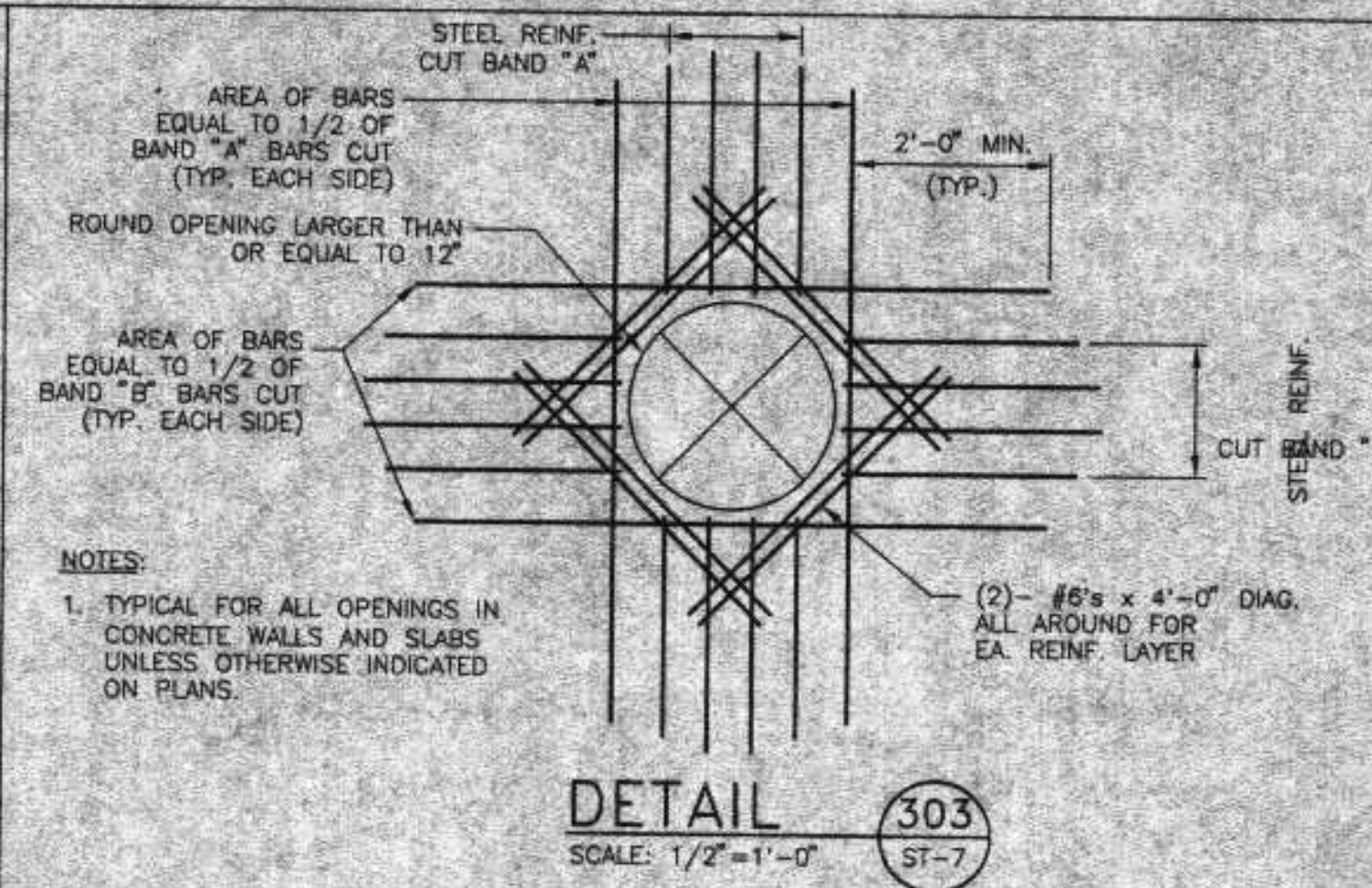
- NOTES:
1. TYPICAL HORIZONTAL WALL CORNER REINFORCING LAYOUT IS SHOWN TO AVOID CONGESTION AND PERMIT PROPER PLACEMENT. FOR SIZE AND SPACING, SEE PLANS. ALL HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS SHALL BE FABRICATED AND INSTALLED WITH SPLICES LOCATED WHERE SHOWN REGARDLESS OF BAR SIZE AND SPACING.
 2. D = LENGTH OF WALL PARALLEL TO BAR LENGTH IN QUESTION.
 3. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 3" SHALL BE THE LESSER OF D/4, 10 FEET, OR 1.0 TIMES THE HEIGHT OF THE WALL, EXCEPT THAT IN NO CASE SHALL IT BE LESS THAN 2.0 FEET.
 4. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 4" SHALL BE 40 BAR DIAMETERS MINIMUM. USE THE LAP LENGTH AS REQUIRED FOR THE SMALLER OF THE TWO REINFORCING BARS BEING SPLICED.

DETAIL 301
NOT TO SCALE



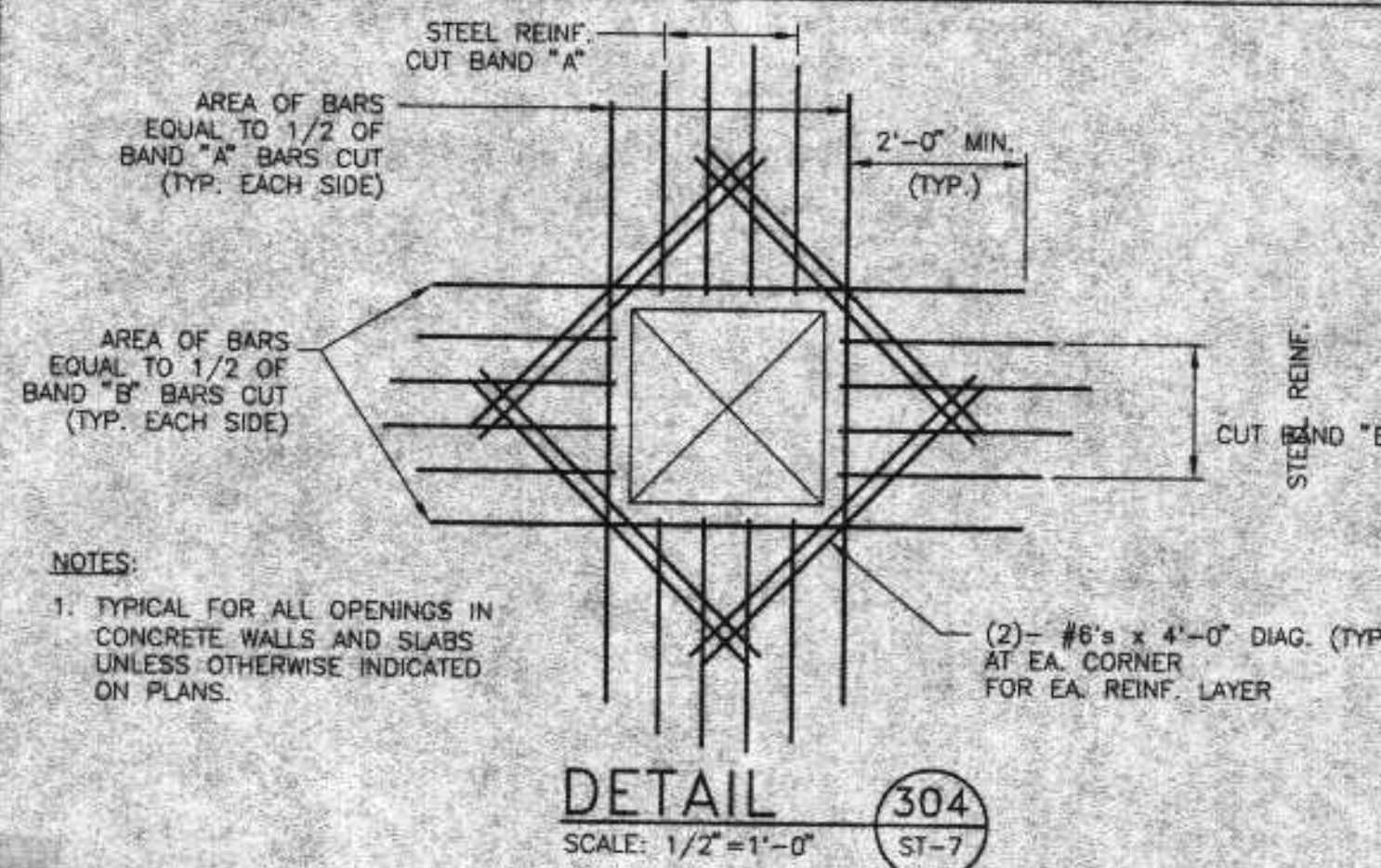
- NOTES:
1. TYPICAL HORIZONTAL WALL INTERSECTION REINFORCING LAYOUT IS SHOWN TO AVOID CONGESTION AND PERMIT PROPER PLACEMENT. FOR SIZE AND SPACING, SEE PLANS. ALL HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS SHALL BE FABRICATED AND INSTALLED WITH SPLICES LOCATED WHERE SHOWN REGARDLESS OF BAR SIZE AND SPACING.
 2. D = LENGTH OF WALL PARALLEL TO BAR LENGTH IN QUESTION.
 3. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 3" SHALL BE THE LESSER OF D/4, 10 FEET, OR 1.0 TIMES THE HEIGHT OF THE WALL, EXCEPT THAT IN NO CASE SHALL IT BE LESS THAN 2.0 FEET.
 4. EXCEPT WHERE OTHERWISE SHOWN ON THE DRAWINGS, THE LENGTH INDICATED AS "NOTE 4" SHALL BE 40 BAR DIAMETERS MINIMUM. USE THE LAP LENGTH AS REQUIRED FOR THE SMALLER OF THE TWO REINFORCING BARS BEING SPLICED.

DETAIL 302
NOT TO SCALE



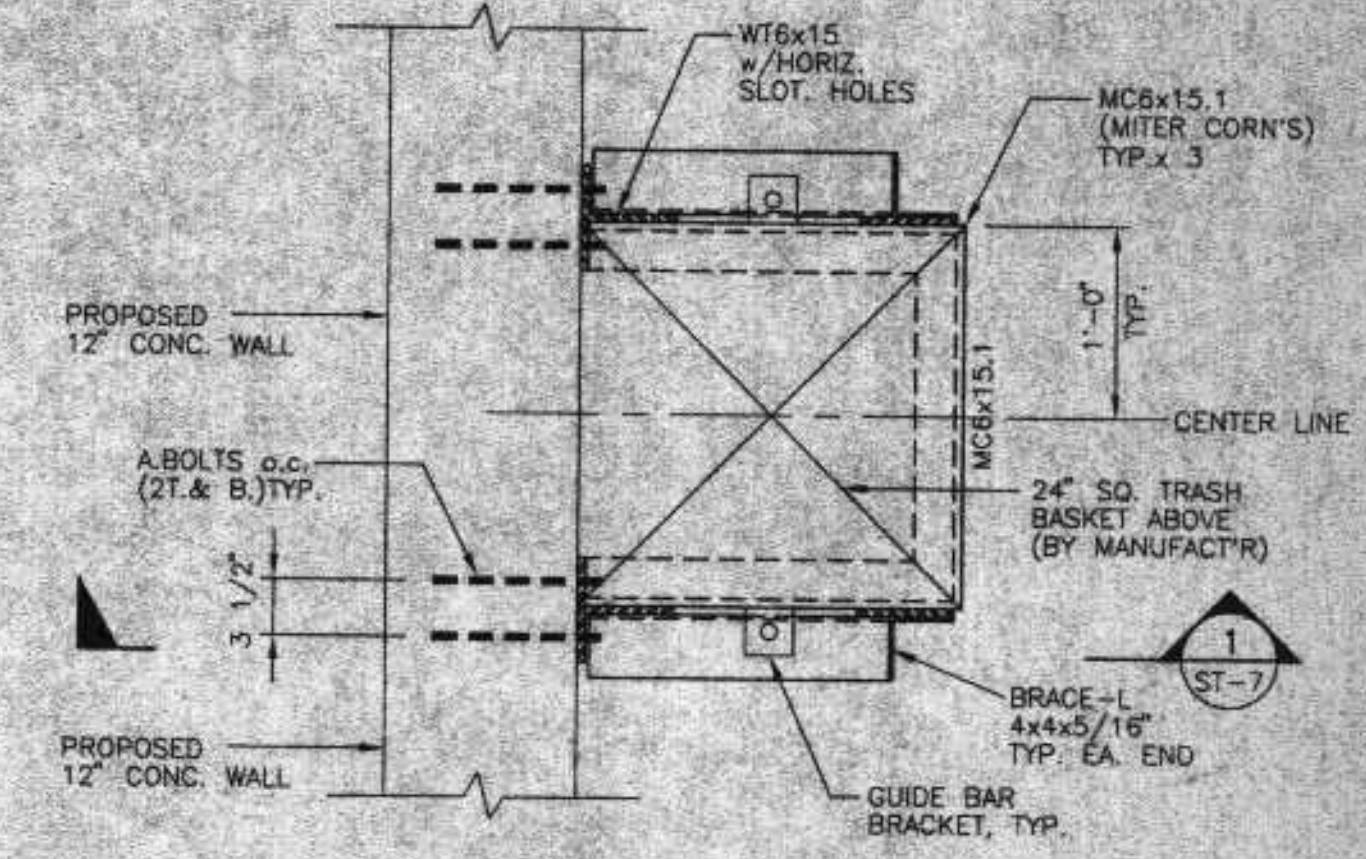
- NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS UNLESS OTHERWISE INDICATED ON PLANS.

DETAIL 303
SCALE: 1/2" = 1'-0"

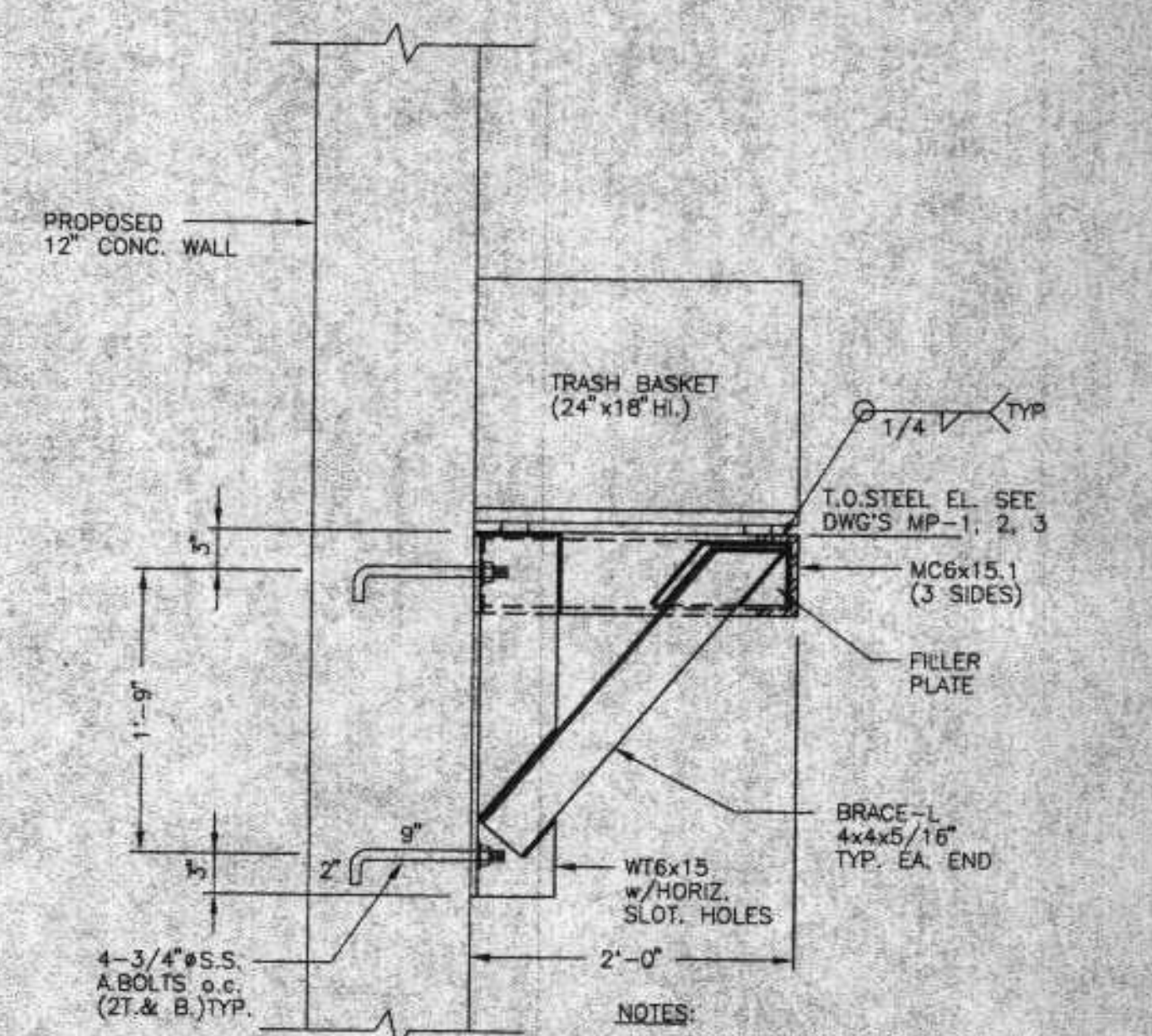


- NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS UNLESS OTHERWISE INDICATED ON PLANS.

DETAIL 304
SCALE: 1/2" = 1'-0"



TRASH BASKET PLAN
SCALE: 1" = 1'-0"

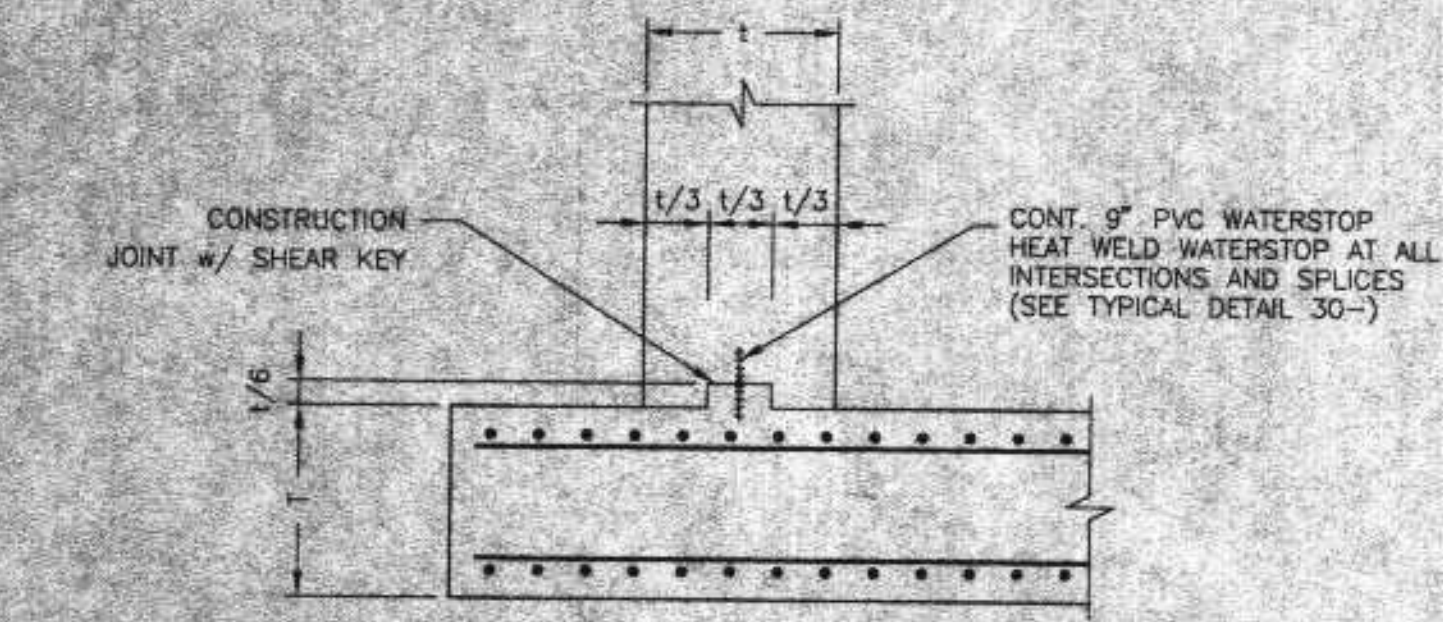


SECTION 1
SCALE: 1" = 1'-0"

2 SUPPORTS REQ'D

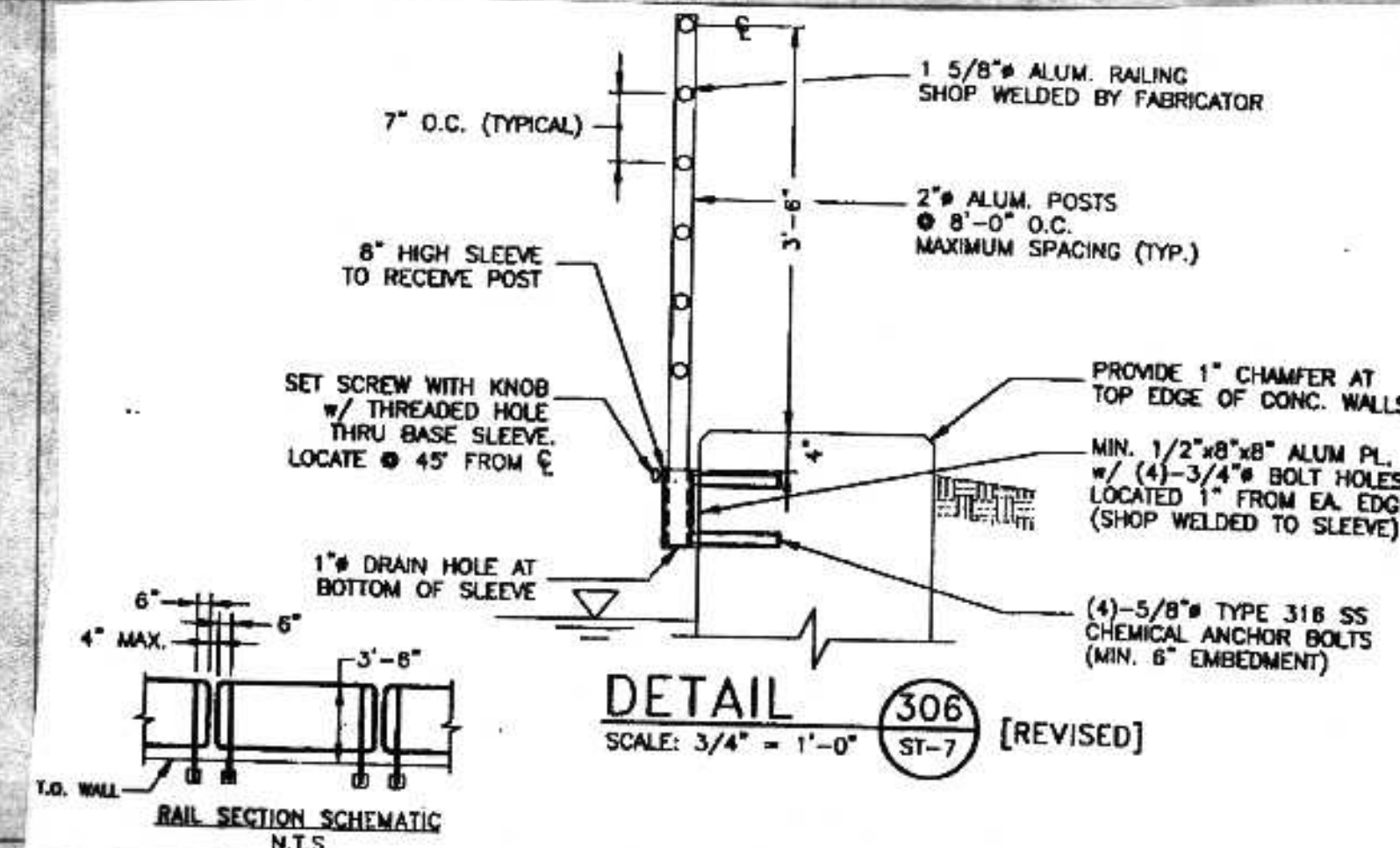
AT WET WELLS-LIFT STA. 5, 6 & 7

SEE MECH. DWG'S MP-1, MP-2, MP-3

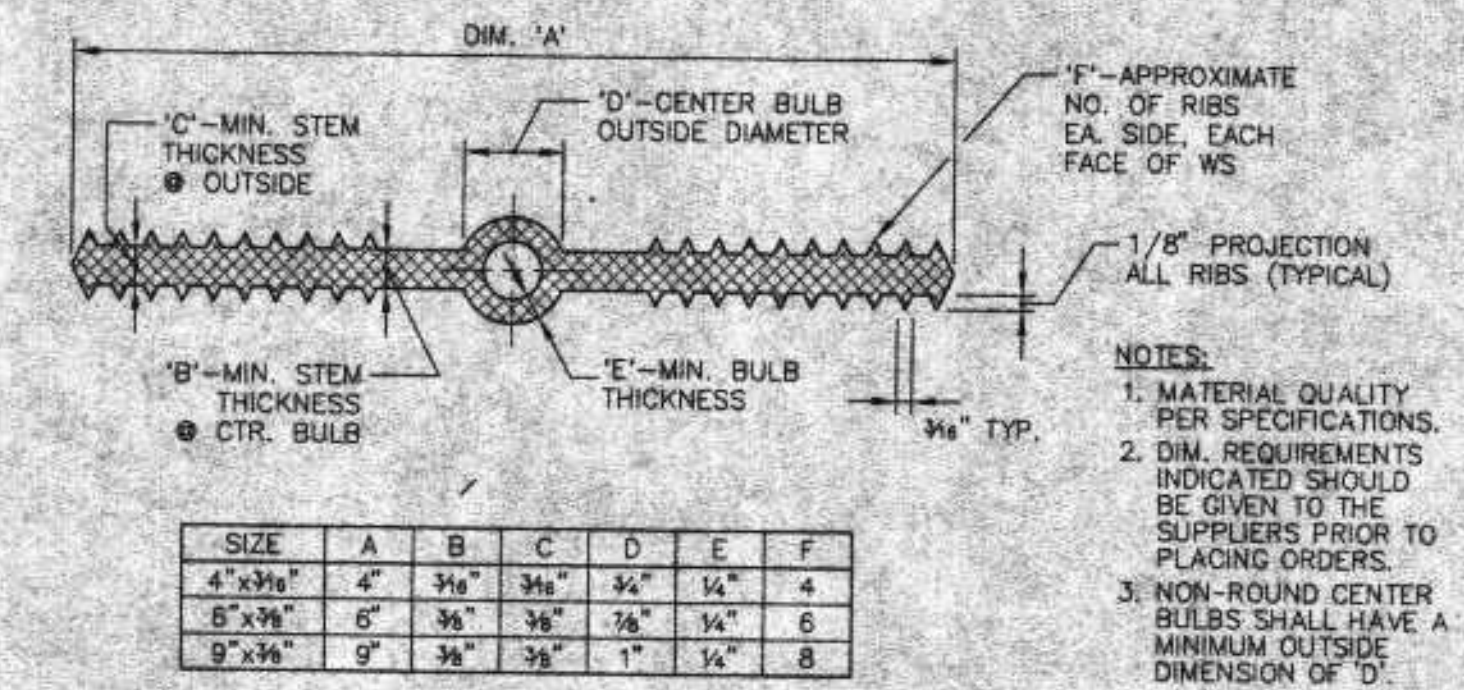


- NOTES:
1. T = FOOTING THICKNESS AS DETAILED.
 2. t = WALL THICKNESS.

DETAIL 305
SCALE: 1/2" = 1'-0"

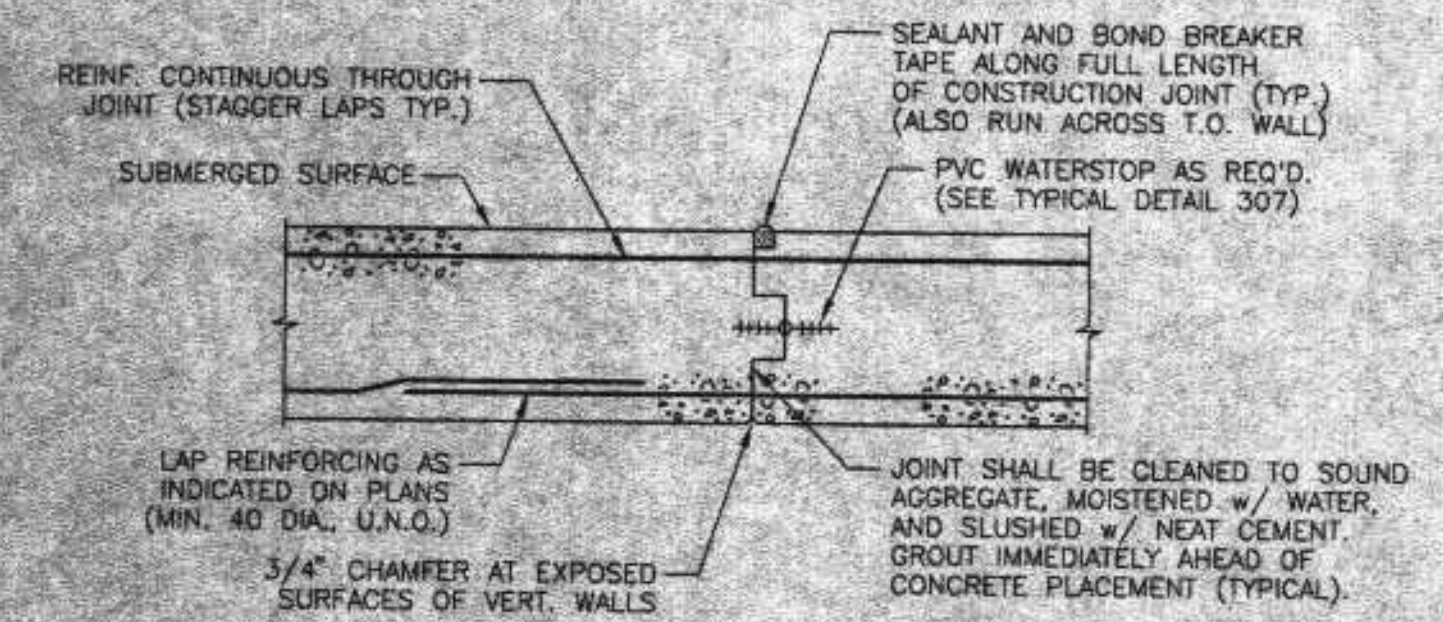


DETAIL 306
SCALE: 3/4" = 1'-0" [REVISED]

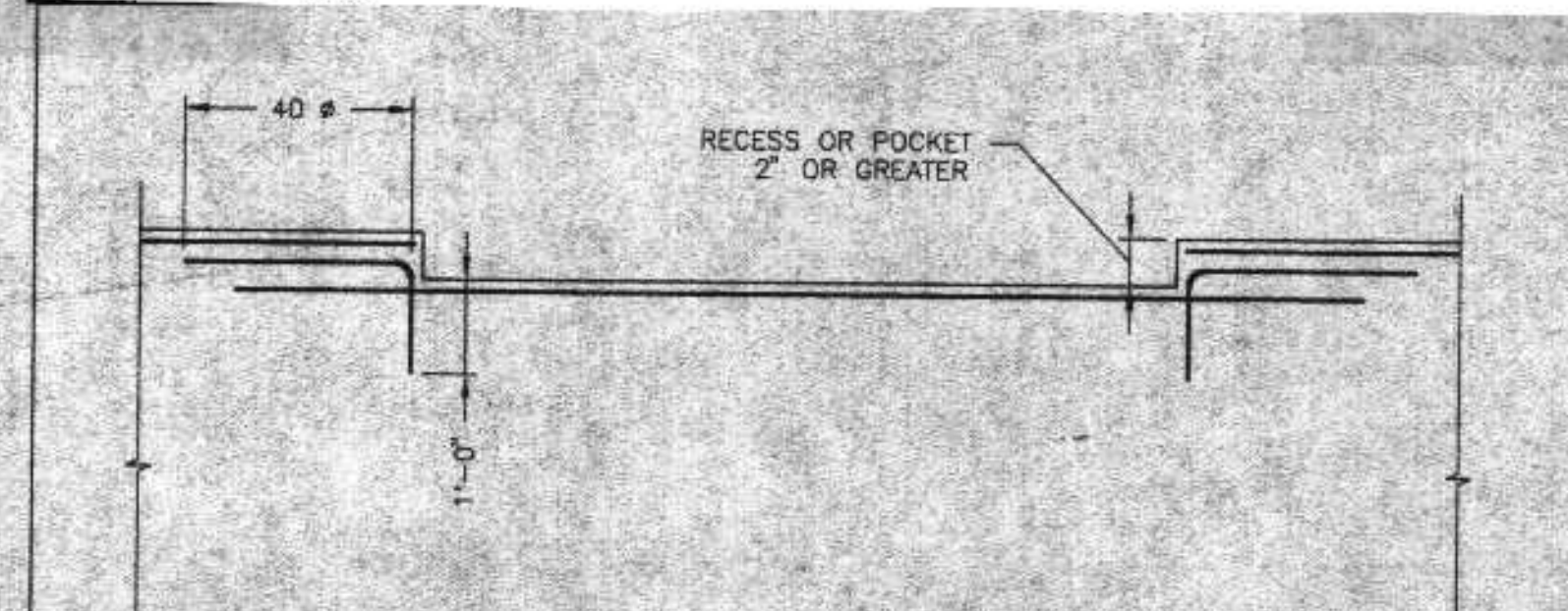


SIZE	A	B	C	D	E	F
4" x 3/8"	4"	3/8"	3/8"	3/4"	1/4"	4
5" x 3/8"	5"	3/8"	3/8"	3/4"	1/4"	6
6" x 3/8"	6"	3/8"	3/8"	1"	1/4"	8

PVC WATERSTOP DETAIL 307
NOT TO SCALE



[PLAN @ WALL, SECTION @ MAT SLAB]
CONSTRUCTION JOINT DETAIL 308
NOT TO SCALE



RECESSED WALL DETAIL 309
NOT TO SCALE

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS	DESCRIPTION

DRAWN BY	GMB
DEPT. CHECK	RSW
PROJ. CHECK	JF

BETA ENGINEERING, INC.
Engineers/Planners

SCALE: AS SHOWN

LIFT STATION NO. 5, 6, & 7
SUPERIOR, WISCONSIN

DETAILS
STRUCTURAL

JOB: 632
DATE: JUNE 26, 1996
FILE: 632ST7.DWG
SHEET: ST-7

STRUCTURAL ABBREVIATIONS

AL	ALUMINUM	HORZ	HORIZONTAL
ALT	ALTERNATE	IF	INSIDE FACE
BOT	BOTTOM	LONG.	LONGITUDINAL
BOF	BOTTOM OF FOOTING	MAX	MAXIMUM
BM	BEAM	MIN	MINIMUM
BRG	BEARING	NTS	NOT TO SCALE
CJ	CONSTRUCTION JOINT	OC	ON CENTER
CL	CENTER LINE	OF	OUTSIDE FACE
CLR	CLEARANCE	RC	REINFORCED CONCRETE
COL	COLUMN	SIM	SIMILAR
CONC	CONCRETE	SPECS	SPECIFICATIONS
CONN	CONNECTION	SO	SQUARE
DIA	DIAMETER	T&B	TOP AND BOTTOM
EA	EACH	TOP	TOP OF CONCRETE
EF	EACH FACE	TRANSV	TRANSVERSE
EL	ELEVATION	TOS	TOP OF STEEL
EW	EACH WAY	TOW	TOP OF WALL
EXP JT	EXPANSION JOINT	TYP	TYPICAL
FDN	FOUNDATION	VERT	VERTICAL
FTG	FOOTING	WS	WATERSTOP
GALV	GALVANIZE (HOT DIPPED)	WWF	WELDED WIRE FABRIC

STRUCTURAL LEGEND

- INDICATES CENTER LINE
- INDICATES BOTTOM OF FOOTING ELEVATION
- INDICATES TOP OF WALL ELEVATION
- INDICATES PROPOSED WORK
- INDICATES EXISTING CONDITIONS
- INDICATES EXISTING HIDDEN CONDITIONS
- INDICATES NEW CONCRETE/ CONCRETE FILL

NOTE:
 CONTRACTOR SHALL PROTECT ALL STRUCTURES FROM BOUANCY DURING CONSTRUCTION UNTIL ENTIRE STRUCTURE IS COMPLETED AND BACKFILLED AS DIRECTED.
 SPECIAL BOUANCY COMPENSATION IS REQUIRED DURING CONSTRUCTION AND FUTURE MODIFICATIONS SEE GENERAL NOTES.

LIFT STATION No. 5, 6 & 7

GEOTECHNICAL DESIGN CRITERIA
EARTH AND HYDROSTATIC PRESSURES

- AT REST ABOVE GROUNDWATER TABLE (GWT) EQUIVALENT FLUID PRESSURE (EFF) = 70 PCF
- AT REST BELOW GWT, ETP = 110 PCF
- SATURATED SOIL WEIGHT = 120 PCF
- SURCHARGE = 350 PSF
- K₁ = 0.40
- K₂ = 0.88
- DESIGN 100 YEAR FLOOD ELEVATION = AT GRADE

STRUCTURAL NOTES

- GENERAL**
- DESIGN IS IN ACCORDANCE WITH, AND CONSTRUCTION SHALL CONFORM TO REQUIREMENTS OF THE WISCONSIN ADMINISTRATIVE CODE, DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS, CHAPTERS ILHR 50 TO 84, "BUILDING AND HEATING, VENTILATING AND AIR CONDITIONING", WITH ALL ITS REVISIONS.
 - INFORMATION REGARDING EXISTING CONSTRUCTION AND CONDITIONS IS BASED ON FIELD INSPECTION, AND IS INCLUDED TO ASSIST THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY OR COMPLETENESS.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHEN UNANTICIPATED OR APPARENTLY DANGEROUS CONDITIONS ARE UNCOVERED DURING CONSTRUCTION OR DEMOLITION.
 - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE PORTION OF THE WORK.
 - OPENINGS LESS THAN 12" MAXIMUM DIMENSION IN SLABS AND WALLS ARE GENERALLY NOT SHOWN ON STRUCTURAL DRAWINGS. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS (IF ANY) FOR LOCATIONS AND DIMENSIONS OF CHASSES, INSERTS, SLEEVES; OPENINGS AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
 - DETAILS NOT SPECIFICALLY SHOWN SHALL BE SIMILAR TO THOSE FOR MOST NEARLY SIMILAR CONDITION AS DETERMINED BY THE ENGINEER.
 - THE CONTRACTOR SHALL SHORE, BRACE, SHEETPILE OR OTHERWISE SUPPORT THE STRUCTURE AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY AT ALL TIMES.
 - HEADERS SHALL BE PLACED ACROSS TOP OF SHORING POSTS AND SHALL BE TIGHT AGAINST UNDERSIDE OF STRUCTURE ABOVE.
 - SHORING SHALL BEAR ON SLEEPERS TO PREVENT DAMAGE TO STRUCTURE BELOW.
 - TEMPORARY SHORES SHALL BE DESIGNED, ERRECTED, SUPPORTED, BRACED AND MAINTAINED BY THE CONTRACTOR TO SUPPORT SAFELY ALL DEAD LOADS PRESENTLY CARRIED BY THE STRUCTURAL WORK BEING SHORED, AND ANY CONSTRUCTION LIVE LOADS.
 - NEW STRUCTURAL SYSTEMS SHALL BE COMPLETELY INSTALLED AND CAPABLE OF SUPPORTING DESIGN LOADS BEFORE SHORES ARE REMOVED. SHORES SHALL BE RELEASED GRADUALLY.

DESIGN LOADS (EXCEPT AS NOTED):

SNOW - (ZONE 1):	
LIVE LOAD	40 PSF
STRUCTURAL SLAB - WET WELL AREAS	
LIVE LOAD	350 PSF
WHEEL/ AXLE LOAD	HS-20

FOUNDATIONS

- BASE SLABS HAVE BEEN DESIGNED BASED UPON A PRESUMPTIVE BEARING CAPACITY OF:
 LIFT STATIONS NO'S 5 & 6 = 1500 PSF
 LIFT STATION NO. 7 = 2000 PSF
 THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF UNSUITABLE BEARING MATERIALS EXIST.
- THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE VALIDITY OF SUBSURFACE CONDITIONS WHERE DESCRIBED ON DRAWINGS, SPECIFICATIONS, TEST BORINGS OR TEST PITS. THESE DATA ARE INCLUDED ONLY TO ASSIST THE CONTRACTOR DURING CONSTRUCTION, AND REPRESENT CONDITIONS ONLY AT THESE SPECIFIC LOCATIONS AT THE PARTICULAR TIME THEY WERE PERFORMED.
- THE FOUNDATION DESIGN IS BASED ON INFORMATION PROVIDED IN GEOTECHNICAL REPORTS, "SUBSURFACE SOIL EXPLORATION REPORT, SUPERIOR LIFT STATIONS 5 & 6, EAST 2ND STREET SUPERIOR, WISCONSIN, DATED 4/21/98, PREPARED BY TWIN PORTS TESTING, INC., SUPERIOR, WI. ALSO, "GEOTECHNICAL EXPLORATION, PROPOSED STORAGE TANK, LIFT STATION #7, CITY OF SUPERIOR, PUBLIC WORKS DEPARTMENT SUPERIOR, WISCONSIN, GME PROJECT NO. D-17700 DATED 7/6/94 PREPARED BY GME CONSULTANTS, INC., SUPERIOR, WI, INCLUDING THE SUPPLEMENTAL DATED 1/11/98.
- UNSUITABLE BEARING MATERIALS, SUCH AS MISCELLANEOUS FILL AND ORGANIC SOILS MAY EXIST IN AREAS OF NEW FOUNDATIONS. EXISTING UNSUITABLE MATERIALS SHALL BE EXCAVATED TO 1'-0" MIN. AS DIRECTED OR AS INDICATED ON THE DRAWINGS AND SHALL BE FOLLOWED BY PLACEMENT OF COMPACTED GRAVEL FILL OR CRUSHED STONE AS SPECIFIED. WHERE ROCK IS ENCOUNTERED, IT SHALL BE EXCAVATED TO 1'-0" BELOW BOTTOMS OF FOOTINGS AND SLABS AND REPLACED WITH A 1'-0" LAYER OF COMPACTED GRAVEL OR SAND.
- NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN SOIL.
- BACKFILL UNDER ANY PORTION OF THE STRUCTURE SHALL BE COMPACTED IN 6" LIFTS.
- COMPACT SOIL TO 95% OF MAX. DRY DENSITY UNDER FOOTINGS AND SLABS ACCORDING TO ASTM D-1557.
- PLACE CONSTRUCTION JOINTS AND P.V.C. WATERSTOPS IN SLABS AND FOUNDATION WALLS IN ACCORDANCE WITH DETAILS AND AT LOCATIONS INDICATED ON DRAWINGS.
- FOUNDATION WALLS ENCLOSING BELOW GRADE AREAS SHALL BE BRACED OR HAVE ROOF SLABS OR FRAMING SECURELY IN PLACE PRIOR TO BACKFILLING. CONCRETE SHALL REACH 75% OF THE DESIGN STRENGTH PRIOR TO BACKFILLING.
- BACKFILL SHALL BE PLACED AND COMPACTED SIMULTANEOUSLY ON BOTH SIDES OF FOUNDATION WALLS WHEREVER POSSIBLE.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SO THAT WORK IS DONE UNDER DRY CONDITIONS ON UNDISTURBED SUBGRADE MATERIAL OR COMPACTED FILL, AS APPLICABLE. IT IS ANTICIPATED THAT SHEETING & DEWATERING WILL BE REQUIRED.
- ALL EMBANKMENTS AND BACKFILL AROUND STRUCTURES SHALL BE COMPACTED TO 90%.
- ALL BELOW GRADE CONCRETE WALLS SHALL BE COATED WITH A BITUMINOUS BASED DAMPPROOFING MATERIAL.
- STRUCTURES ARE DESIGNED FOR GROUNDWATER ELEVATIONS BASED ON INFORMATION PROVIDED IN THE GEOTECHNICAL REPORTS PREPARED BY GME CONSULTANTS, INC. SEE NOTE 3. ABOVE.
- ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES."

STRUCTURAL NOTES, CONT.

CONCRETE

- CONCRETE WORK SHALL CONFORM TO LATEST EDITIONS OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301), AND ACI 350 "ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES".
- CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED UNDER THE SUPERVISION OF THE APPROVED TESTING AGENCY.
- CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, UNLESS OTHERWISE NOTED.
- ALL CONCRETE SHALL BE AIR-ENTRAINED.
- CONCRETE SHALL BE CURED FOR A MINIMUM OF (7) SEVEN DAYS BEFORE ANY LOADS ARE APPLIED THERETO.
- CONSTRUCTION JOINTS SHALL BE PLACED AS SHOWN ON THE DRAWINGS. CHANGES SHALL NOT BE MADE WITHOUT APPROVAL OF THE ENGINEER.
- CONCRETE SHALL BE PLACED SO THAT SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON DRAWINGS.
- CONCRETE SLABS AND WALLS SHALL BE CAST ALTERNATELY OR IN A CHECKERBOARD PATTERN SO THAT SECTIONS ARE PLACED NO SOONER THAN 3 DAYS APART.
- PROVIDE A SMOOTH RUBBED SURFACE, FREE FROM BURRS, TIE HOLES, HONEYCOMBING, ETC. ON EXPOSED CONCRETE WALLS.
- PROVIDE A STEEL TROWELED FINISH FOR SLABS AT PITS AND A BROOM FINISH FOR EXPOSED SLABS.
- AT OPENINGS IN FOUNDATION WALLS LESS THAN 12 INCHES SQUARE, PROVIDE 2-#6S AT EACH EDGE OF OPENING.
- PORTLAND CEMENT TYPE II SHALL BE USED FOR ALL CONCRETE AND MAXIMUM W/C (WATER CEMENT RATIO) SHALL BE 0.46 AND A MAXIMUM WATER SOLUBLE CL-CONCENTRATION IN HARDENED CONCRETE OF 0.15% BY WEIGHT OF CEMENT.
- AT ALL CONSTRUCTION JOINTS EPOXY NEW CONCRETE TO HARDENED CONCRETE WITH SIKADUR 32, HI-MOD MANUFACTURED BY SIKA CORP. OR ENGINEER APPROVED EQUIVALENT APPLY PER MANUFACTURER RECOMMENDATION.
- ELASTOMERIC SEALANT SHALL BE SIKA FLEX 1A AS MANUFACTURED BY SIKA CORP. OR ENGINEER APPROVED EQUIVALENT.
- ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER (TYP).
- ALL CONCRETE SHALL BE PLACED IN THE DRY.
- WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS.
- PROCESS AND ELECTRICAL DRAWINGS IDENTIFY AND LOCATE ALL EMBEDDED ITEMS (PIPES, SLEEVES, EQUIPMENT BOLTS, RAILINGS, LIFTING RINGS, FRAMES, ETC.) AND ARE TO BE USED IN CONJUNCTION WITH STRUCTURAL DRAWINGS DURING CONSTRUCTION.
- ALL EQUIPMENT ANCHOR BOLTS FURNISHED BY EQUIPMENT MANUFACTURER TO BE INSTALLED BY GENERAL CONTRACTOR, AND SHALL BE STAINLESS STEEL.

REINFORCING STEEL

- REINFORCING STEEL SHALL BE GRADE 60 NEW BILLET STEEL, CONFORMING TO ASTM A615. WELDED WIRE FABRIC SHALL BE ASTM A185.
- DETAILING, FABRICATION AND ERECTION OF REINFORCEMENT SHALL CONFORM TO LATEST EDITIONS OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- MINIMUM LAP OF REINFORCING BARS SHALL BE 40 DIAMETERS, UNLESS SHOWN OTHERWISE.
- REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.
- INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT, UNLESS OTHERWISE APPROVED BY ENGINEER.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
 A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH = 3.0"
 B. CONCRETE EXPOSED TO EARTH OR WEATHER #6 THROUGH #18 BARS = 2.0"
 #5 BAR WST OR 031 WIRE, AND SMALLER = 1.5"
 C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND #14 AND #18 BARS, SLABS, WALLS, JOISTS = 1.5"
 #11 BAR AND SMALLER = 1.0"
 D. BEAMS, COLUMNS, PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS = 2.0"
- PROVIDE AND SCHEDULE ON SHOP DRAWINGS THE NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION. MINIMUM REQUIREMENTS SHALL BE HIGH CHAIRS, 4'-0" O.C. WITH CONTINUOUS #5 SUPPORT BAR, SLAB BOLSTERS, CONTINUOUS AND 3'-0" O.C. BEAM BOLSTERS, 5'-0" O.C. ALL CHAIRS SHALL BE GALVANIZED AND SHALL BE USED AGAINST ALL FORMS (SLABS, WALLS, PILASTERS, ETC.).
- WHERE CONTINUOUS REINFORCEMENT IS CALLED FOR IT SHALL BE EXTENDED CONTINUOUS AROUND CORNERS AND LAPPED AT NECESSARY SPICES OR HOOKED AT DISCONTINUOUS ENDS. LAPS SHALL BE CLASS B TENSION LAP SPLICES UNLESS NOTED OTHERWISE.
- WHERE REINFORCEMENT IS REQUIRED IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.
- WELDED WIRE FABRIC SHALL LAP 6" OR ONE SPACE, WHICHEVER IS LARGER, AND SHALL BE WIRED TOGETHER.
- REINFORCEMENT SHALL NOT BE TACK WELDED.

STRUCTURAL NOTES, CONT.

STEEL

- STRUCTURAL STEEL IS DESIGNED IN ACCORDANCE WITH AND WORK SHALL CONFORM TO THE LATEST EDITIONS OF "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" (AISC), "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" (AISC) AND "STRUCTURAL WELDING CODE- STEEL (AWS)". STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO ASTM A36, FY = 36 KSI, UNLESS OTHERWISE NOTED.
- TUBE STEEL SECTIONS SHALL BE ASTM A500 GRADE B, FY = 46 KSI.
- CONNECTIONS:
 A. BEAM CONNECTIONS SHALL BE TYPE-3 "SEMI-RIGID FRAMING" (PARTIAL RESTRAINED), UNLESS NOTED OTHERWISE. REFER TO AISC SPECIFICATIONS AND PROVIDE DETAILS FOR REVIEW AND APPROVAL.
 B. CONNECTIONS SHALL BE BOLTED OR WELDED OR BOTH, AND FABRICATOR SHALL SUBMIT PROPOSED CONNECTION DETAILS FOR APPROVAL PRIOR TO FABRICATION.
 C. BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER 316 STAINLESS STEEL OR A325 HOT DIP GALVANIZED AS NOTED IN DETAIL OR E70 SERIES ELECTRODES. WELDS SHALL DEVELOP THE FULL STRENGTH OF THE MATERIALS BEING WELDED.
 D. WELDED CONNECTIONS SHALL BE MADE BY A CERTIFIED WELDER IN ACCORDANCE WITH AWS D.1.1, USING CLASS E70 SERIES ELECTRODES. WELDS SHALL DEVELOP THE FULL STRENGTH OF THE MATERIALS BEING WELDED.
 E. COLUMN ANCHOR BOLTS SHALL BE STAINLESS STEEL TYPE 316.
- ALL STEEL COMPONENTS AND FITTINGS EXPOSED TO WEATHER IN THEIR FINAL STATE SHALL BE HOT DIPPED GALVANIZED. ANCHOR BOLTS AND BEARING PLATES SHALL BE LOCATED BY TEMPLATES OR SIMILAR METHOD. PLATES SHALL BE SET IN FULL BEDS OF NON-SHRINK GROUT. BOTTOM OF BASE PLATES SHALL BE SET APPROXIMATELY 3/4" ABOVE TOP OF BEARING. RESULTING SPACE SHALL BE FILLED WITH DRY PACKED NON-SHRINK GROUT.
- STEEL FRAMING SHALL BE TRUED AND PLUMB BEFORE CONNECTIONS ARE PERMANENTLY BOLTED OR WELDED.
- TEMPORARY ERECTION BRACING AND SUPPORTS SHALL BE PROVIDED TO HOLD STRUCTURAL STEEL FRAMING SECURELY IN POSITION. SUCH TEMPORARY BRACING AND SUPPORTS SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND FLOOR SLABS HAVE ATTAINED 75% OF SPECIFIED CONCRETE STRENGTH.
- MILLED STIFFENERS SHALL BE PROVIDED UNDER ALL LOAD CONCENTRATIONS ON SUPPORTING MEMBERS OVER ALL COLUMNS AND WHERE SHOWN ON THE DRAWINGS.
- WELDING SHALL BE INSPECTED IN THE FIELD BY QUALIFIED WELDING INSPECTORS UNDER THE SUPERVISION OF AN APPROVED TESTING AGENCY.
- FIELD CUTTING OR ANY OTHER FIELD MODIFICATIONS OF STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT APPROVAL FROM ENGINEER FOR EACH SPECIFIC CASE.
- ALL EXPOSED STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED (2 OZ./ SQ. FT.) AFTER FABRICATION IN COMPLIANCE WITH ASTM-123, A153 OR A366 AS APPLICABLE. GALVANIZER SHALL FURNISH TO ENGINEER A NOTARIZED CERTIFICATE OF COMPLIANCE WITH THESE SPECIFICATIONS.

NUMBER	DATE	MADE BY	CHECKED BY	DESCRIPTION
				REVISIONS

DRAWN BY	RAC
DEPT. CHECK	RSW
PROJ. CHECK	JF

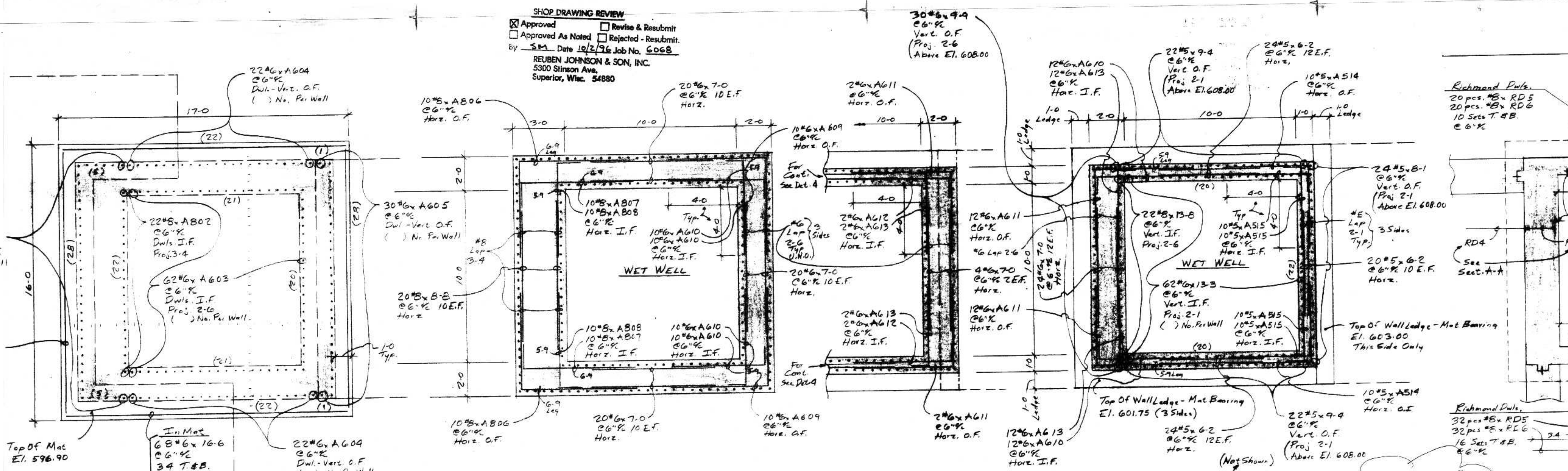
BETA ENGINEERING, INC.
 Engineers/Planners

SCALE: NONE

LIFT STATION NO. 5,6,&7
 SUPERIOR, WISCONSIN
 GENERAL NOTES
 STRUCTURAL

JOB: 632
 DATE: JUNE 26, 1996
 FILE: 632ST8.DWG
 SHEET: ST-8

SHOP DRAWING REVIEW
 Approved Revise & Resubmit
 Approved As Noted Rejected - Resubmit.
 By S.M. Date 10/2/96 Job No. 6068
REUBEN JOHNSON & SON, INC.
 5300 Johnson Ave.
 Superior, Wisc. 54880

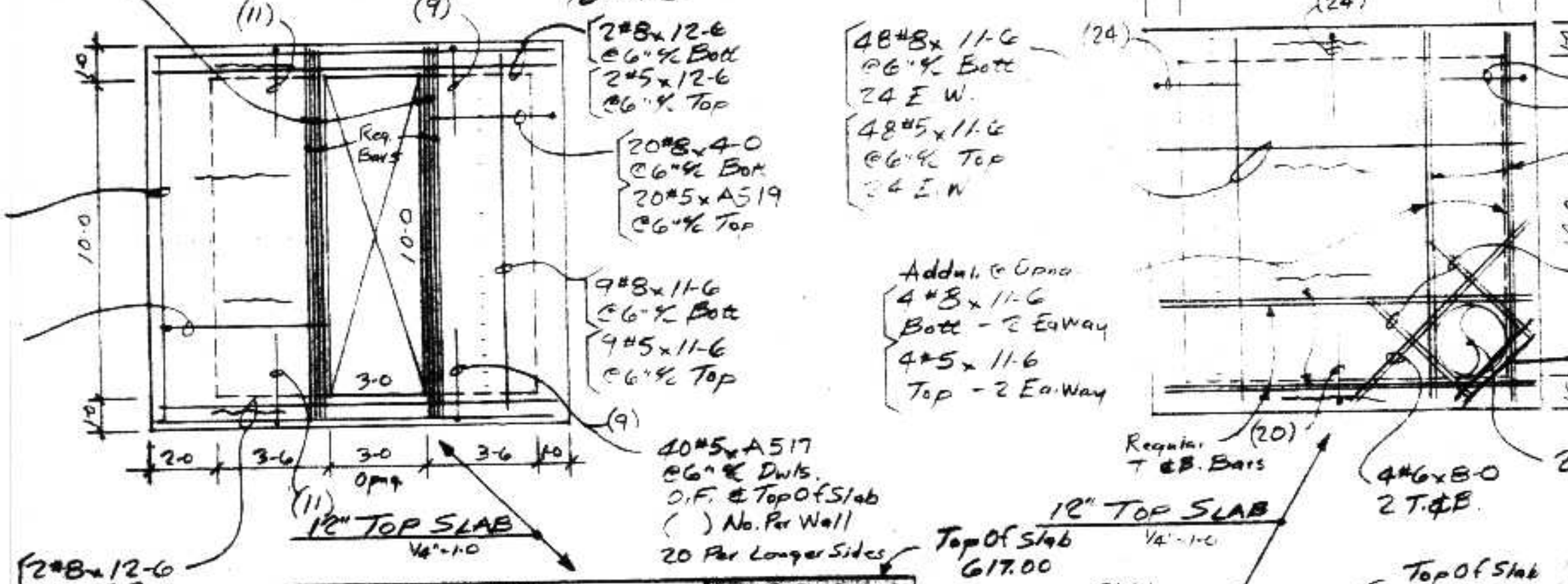


WET WELL MAT PLAN - DETAIL 1
 (2-0 THK)
 3/8" x 10"

LOWER WALL - DETAIL 2
 (From El. 596.90 To El. 601.75)
 3/8" x 10"

LOWER WALL - DETAIL 3
 (From El. 601.75 To El. 603.00)
 3/8" x 10"

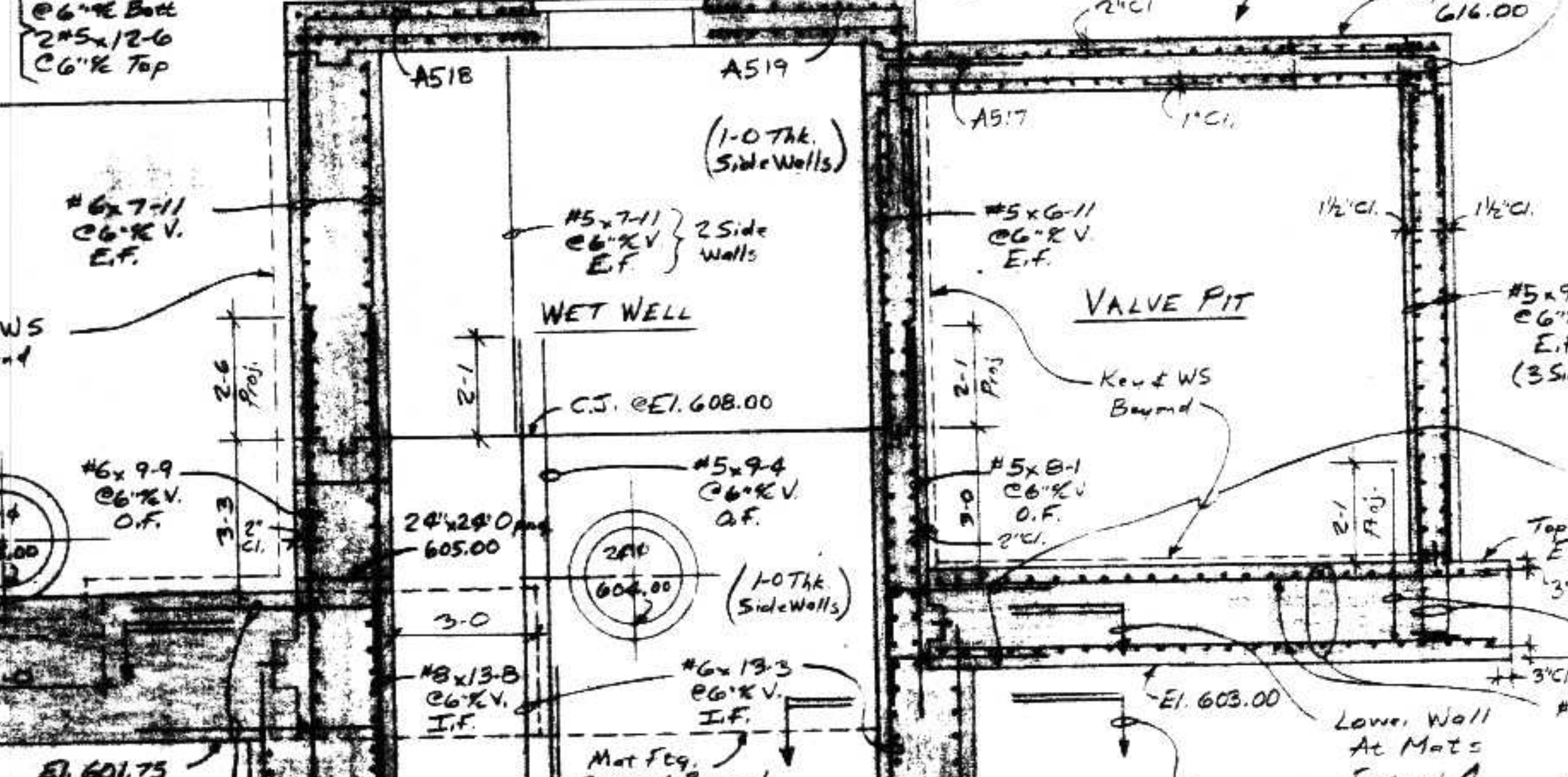
LOWER WALL AT MATS - DETAIL 4
 (From El. 603.00 To El. 608.00)
 3/8" x 10"



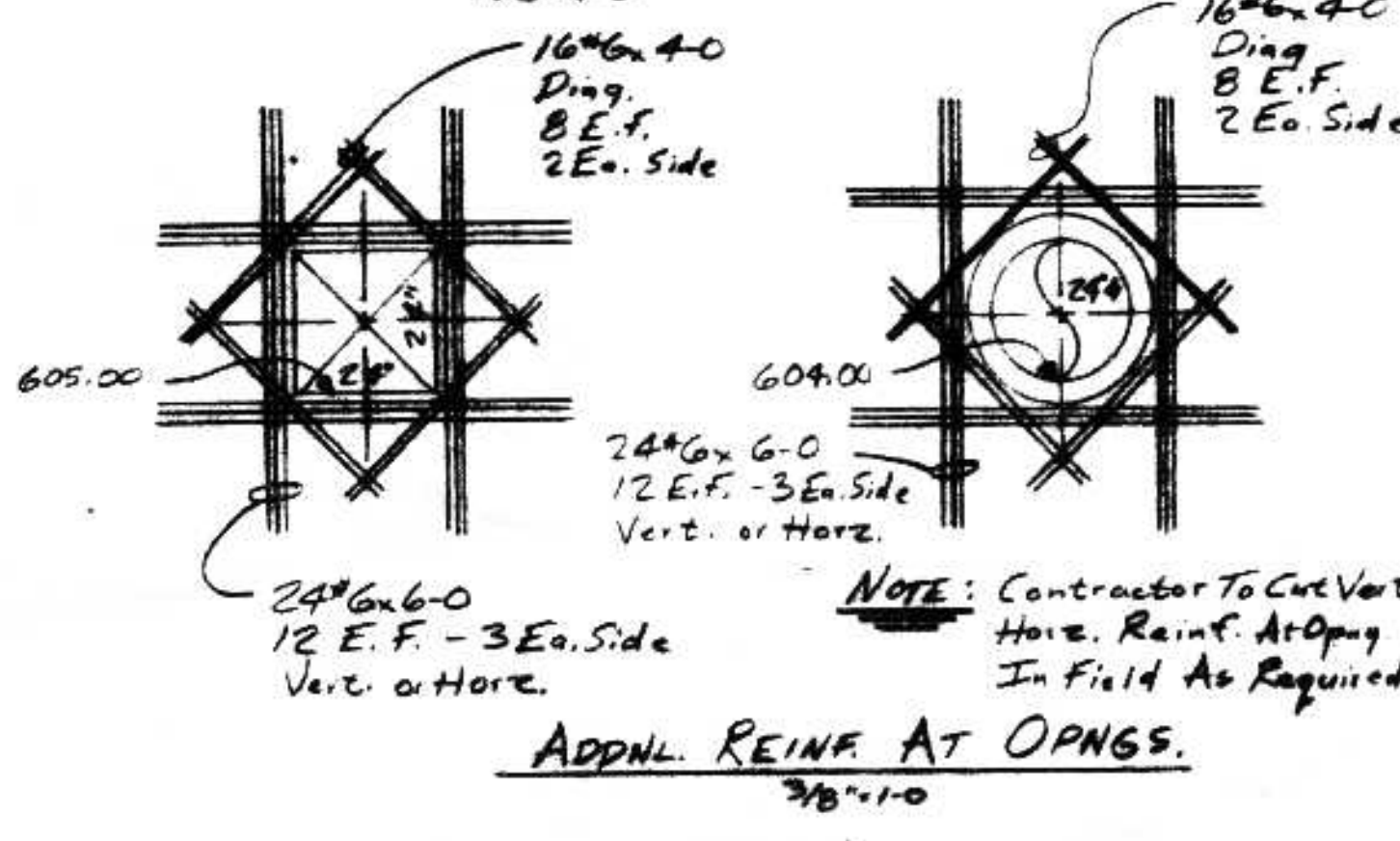
ACCESSORIES @ 12" TOP SLABS
 90 LBS 1" Slat Bolster @ 4-0"
 35 pcs. 8 3/4" High Chair @ 4-0" @ Cor'd Ea. Way

SHOP DRAWING REVIEW
 REVIEW IS ONLY FOR GENERAL COMPLIANCE WITH DESIGN CONCEPT
 NO EXCEPTIONS TAKEN
 MAKE CORRECTIONS NOTED
 AMEND AND RESUBMIT
 REJECTED - SEE REMARKS
 BETA ENGINEERING, INC.
 (Signature)
 Checked by: KW Date: 10/16/96

Slab Support L#14
 Check # of sets



PARTIAL PLAN - UPPER WALLS ABOVE MATS - DETAIL 5
 3/8" x 10"



BENT BAR SCHEDULE

MARK	SIZE	TYP	A	B	C	D	E	F	G	H	K	J	O
A801	5	17	1-4	7/10									
A802	5	17	1-4	4/11									
A803	6	17	1-0	4/11									
A804	6	17	1-0	7/10									
A805	6	17	1-0	8-8									
A806	5	17	5-9	6-9									
A807	5	17	1-4	6-9									
A808	5	17	1-4	5-9									
A809	6	17	5-9	5-9									
A810	6	17	1-0	5-9									
A811	6	17	4-9	5-9									
A812	6	17	1-0	5-9									
A813	6	17	1-0	4-9									
A514	5	17	4-9	4-9									
A515	5	17	1-0	4-9									
A516	5	17	0-0	3-8									
A517	5	17	2-9	2-9									
A518	5	17	2-9	5-0									
A519	5	17	4-0	4-0									
A420	4	25	0-6	13/4	0-6	13/4	1-6			1-3	0-8		
A821	6	17	1-0	4-3									

REV. DATE REASON

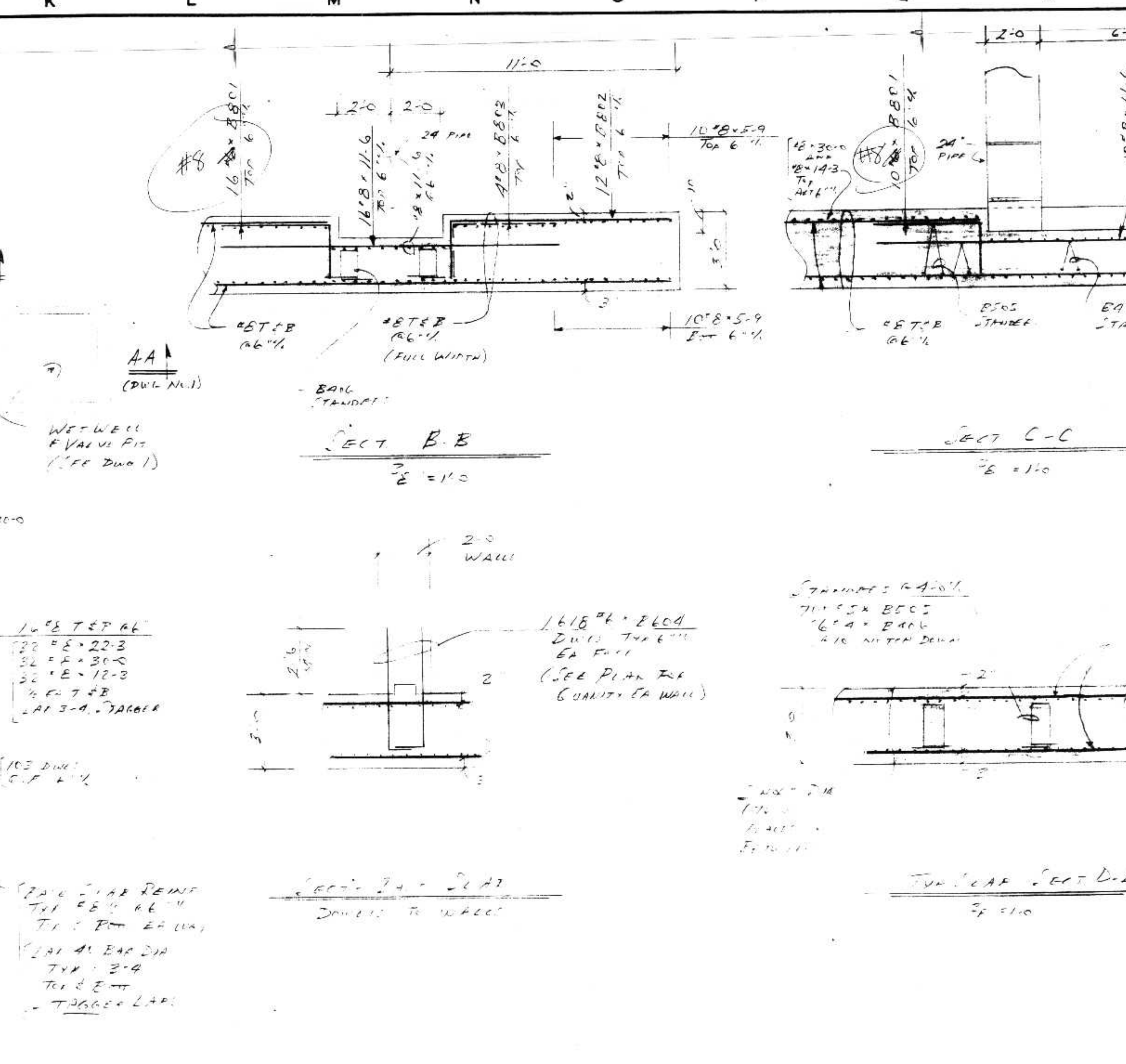
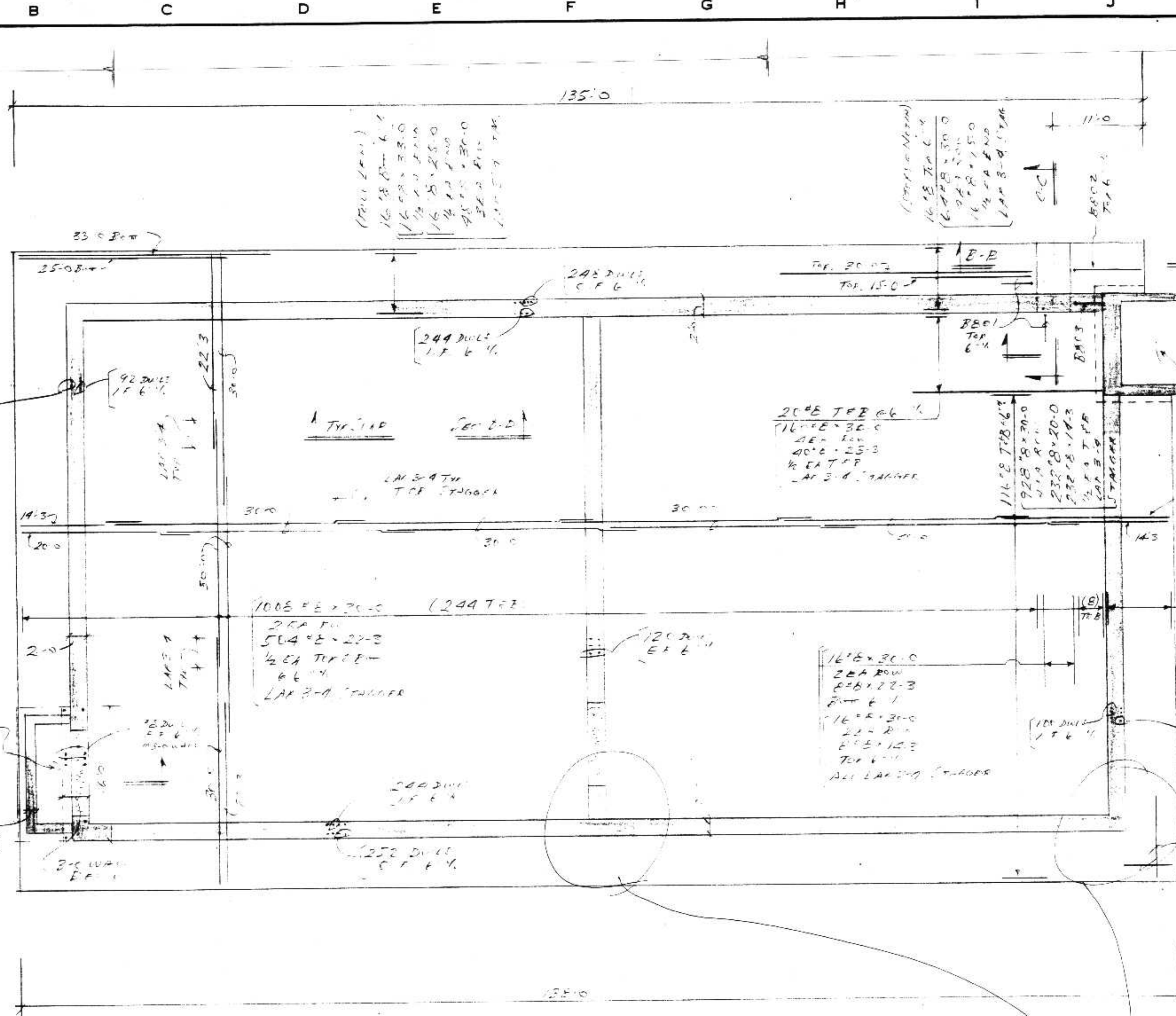
REV.	DATE	REASON
		ASTM A615 - Grade 60 (U.N.O.) Shortage of bars in concrete for any reason must be reported to the contractor or owner within 15 days of delivery. Ambassador Steel Corporation will not be responsible for any reason must be reported to the contractor or owner within 15 days of delivery. Ambassador Steel Corporation will not be responsible for any reason must be reported to the contractor or owner within 15 days of delivery.

Embassador Steel
 AUBURN, INDIANA
 "REINFORCING AMERICA"

PROJECT	LIFT STATION # STORAGE IMP
SUPERIOR, WI	

LOCATION	SUPERIOR, WI
ARCHT/ENG	BETA ENGINEERING, INC.
CUSTOMER	REUBEN JOHNSON & SONS

TITLE: LIFT STATION NO. 5 WET WELL & VALVE PIT



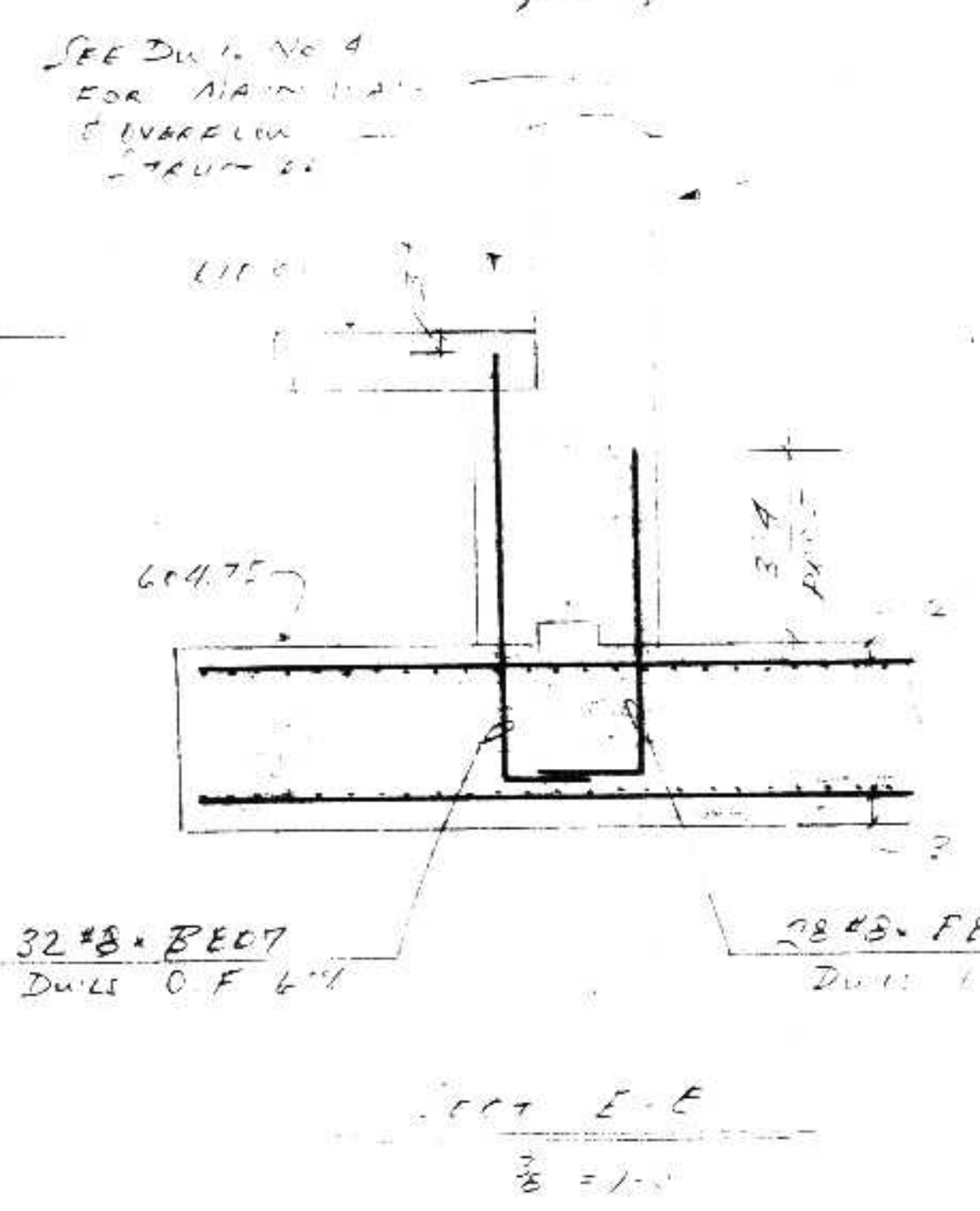
END PLAN LIFT STATION 5

- 1. WET WELL VALVE & STRUCT ON DUG VALVE
- 2. HIGH LEVEL OVERFLOW STRUCT ON DUG VALVE
- 3. WALL PLAN AND REIN. ALL ON DWG NO 314.

Please show corner & intersection details similar to 301, 302 ST-7, ST-7 from contract drawings

BENT BAR SCHEDULE

NO.	SIZE	TYPE	A	T	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
B501	#5	17		24	3-4															
B502	#5	17		3-6	5-6															
B503	#5	17		2-4	2-9															
B504	#5	2	1-0	1-3																
B505	#5	25		1-6	2-7	1-5	2-5	1-6												
B506	#5	25		1-4	1-5	1-5	1-6													
B507	#5	2	1-4	7-8																
B508	#5	2	1-4	6-1																



SHOP DRAWING REVIEW
 REVIEW IS ONLY FOR GENERAL COMPLIANCE WITH DESIGN CONCEPT

NO EXCEPTIONS TAKEN
 MAKE CORRECTIONS NOTED
 AMEND AND RESUBMIT
 REJECTED-SEE REMARKS

BETA ENGINEERING, INC.
 Signature: [Handwritten Signature]
 Checked by: KJL Date: 10/10/12

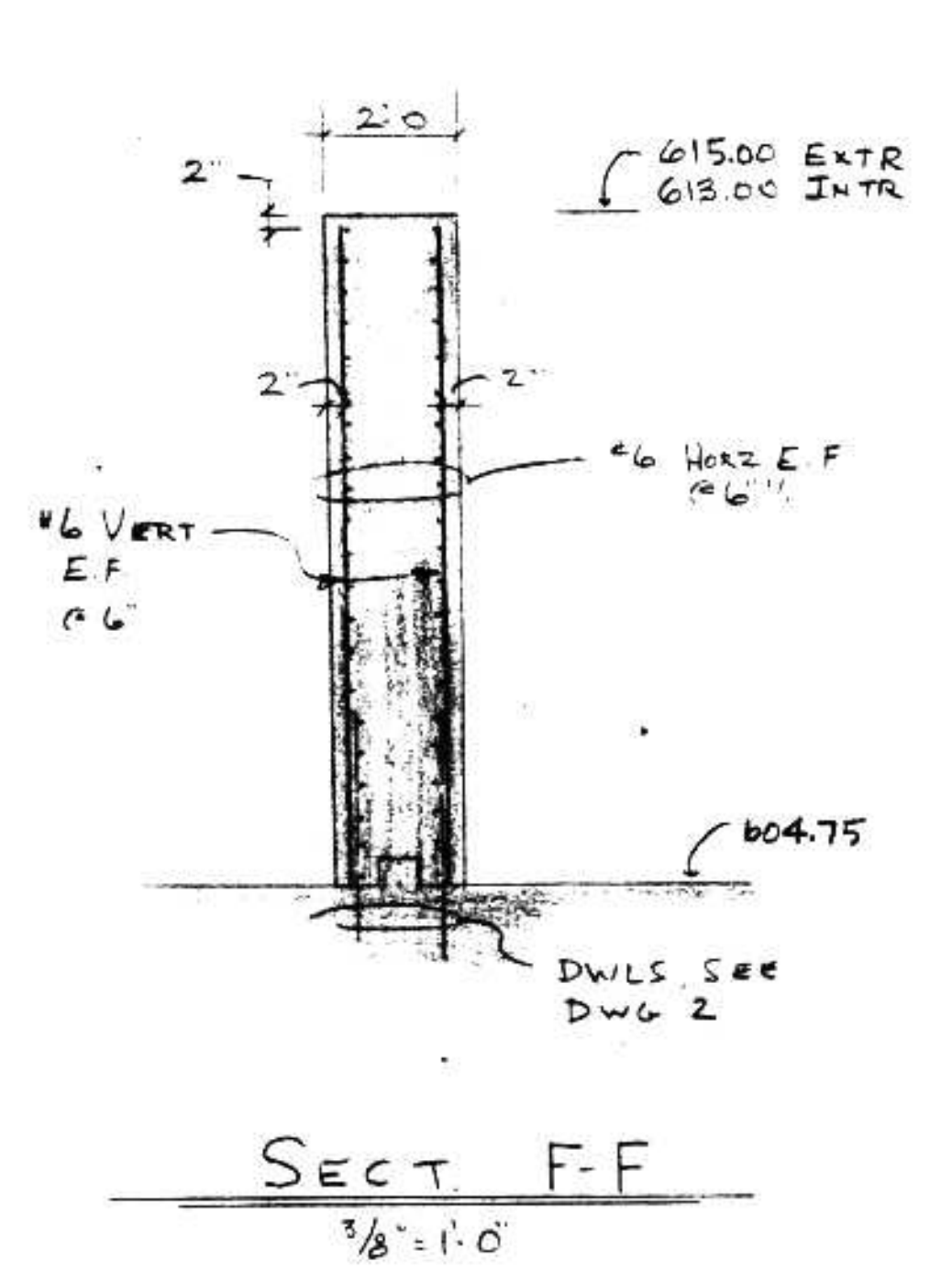
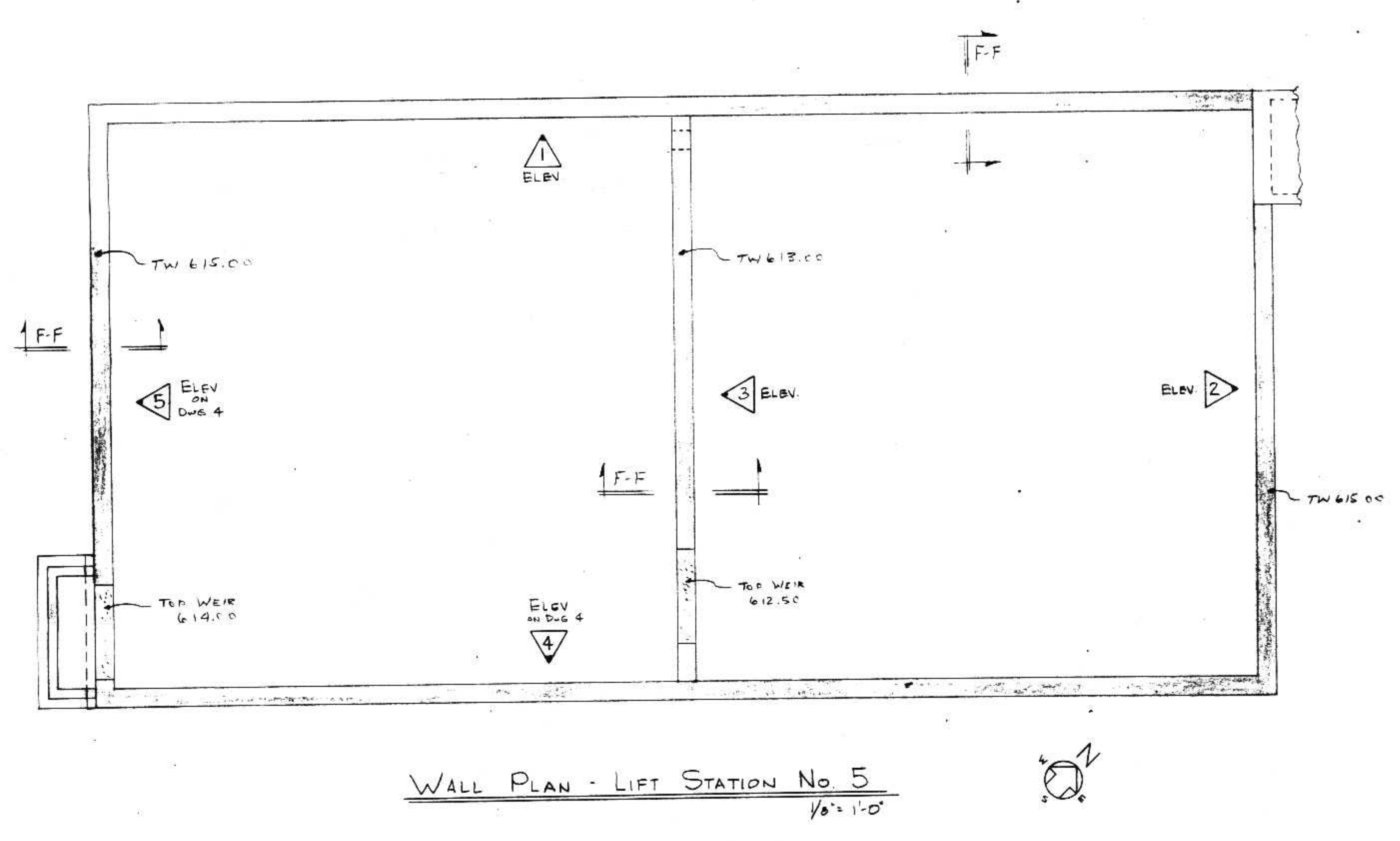
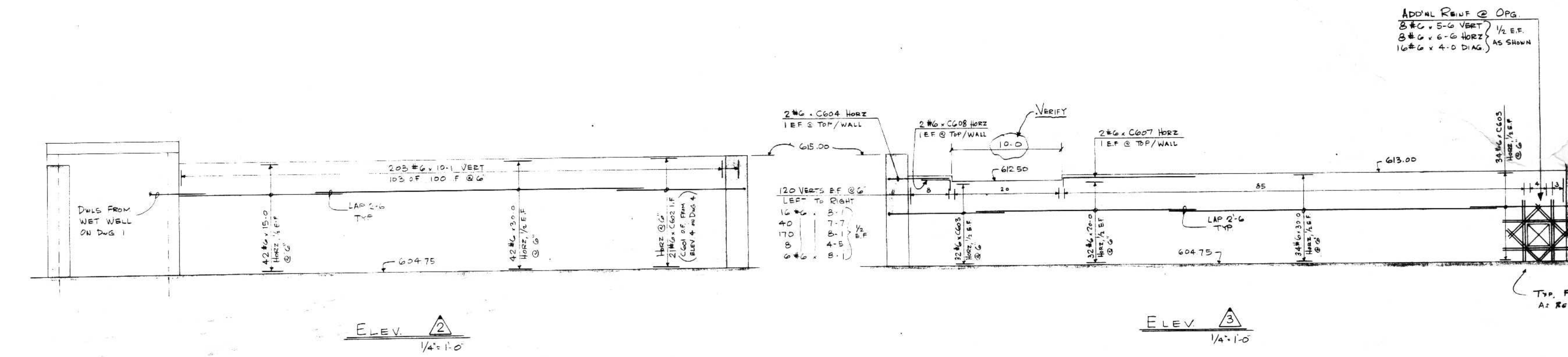
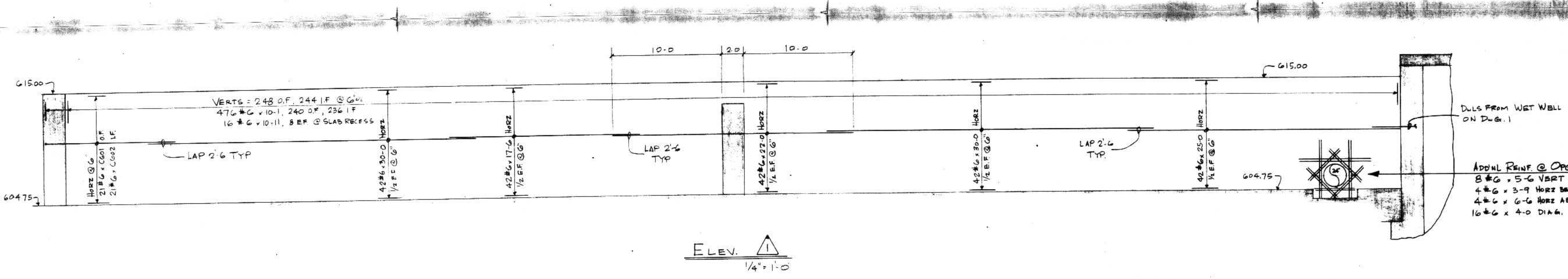
REV.	DATE	REASON

ASTM A615 - Grade 60 (U.N.O.)
 Shortage, improper fabrication or dams for any reason must be reported Corporation within a period of 15 days of delivery. Ambassador Steel will not be responsible for work done in the field without specific authorization.
 This drawing is to be used for the placing of our materials only. For all other architect's plans.

InterSador Steel
 AUBURN, INDIANA
 "REINFORCING AMERICA"

PRODUCTION
 GRAND RAPIDS, MI
 KNOX, TN
 MINNEAPOLIS, MN
 MOOREVILLE, NC
 ADDITIONAL SALES OFFICES
 AUBURN, INDIANA

PROJECT	LIFT STATION # STORAGE IMPROVEMENT
LOCATION	SUPERIOR, WI
ARCHT/ENG	BETA ENGINEERING, INC.
CUSTOMER	ROBERT JOHNSON & SONS
TITLE	LIFT STATION NO 5 BASE SLAB & DWELL



SHOP DRAWING REVIEW

REVIEW IS ONLY FOR GENERAL COMPLIANCE WITH DESIGN CONCEPT

NO EXCEPTIONS TAKEN

MAKE CORRECTIONS NOTED

AMEND AND RESUBMIT

REJECTED-SEE REMARKS

BETA ENGINEERING, INC.

Checked by: *[Signature]* Date: *[Date]*

Will joints?

REV.	DATE	REASON
		ASTM A615 - Grade 60 (U.N.O.) Shortage, improper fabrication or claims for any reason must be reported to the fabricator within a period of 15 days of delivery. Ambassador Steel will not be responsible for work done in the field without specific authorization. This drawing to be used for the placing of our materials only. For all other architect's plans.

PRODUCTION: **Ambassador Steel**
 AUBURN, INDIANA
 "REINFORCING AMERICA"

PROJECT	LIFT STATION # STORAGE IMPROV.
LOCATION	SUPERIOR, WI
ARCHT/ENG	BETA ENGINEERING, INC.
CUSTOMER	REUBEN JOHNSON & SONS
TITLE	LIFT STATION No. 5 PARTIAL WALL REINF.

