



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 DEP14350

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 CHUCK BOWMAN
 304-558-2157

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

ENVIRONMENTAL PROTECTION
 DEPARTMENT OF
 OFFICE OF AML&R
 601 57TH STREET SE
 CHARLESTON, WV
 25304 304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
07/17/2008				
BID OPENING DATE: 08/05/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 3 *****						
ADDENDUM ISSUED FOR THE AMHERSTDALE WATER TREATMENT PLANT TO DISTRIBUTE THE PRE-BID SIGN-IN SHEETS FROM THE 06/17 & 06/30/08 MEETINGS, THE Q&A RESULTING FROM BOTH MEETINGS, FIFTEEN (15) PAGES OF REVISED DRAWINGS, AND THE REVISED BID SCHEDULE.						
THE BID DATE AND OPENING TIME HAVE BEEN EXTENDED FROM 07/24/08 TO 08/05/08 AT 1:30 PM.						
***** NO OTHER CHANGES *****						
0001	1	JB		968-96		
AMHERSTDALE WATER TREATMENT PLANT UPGRADE						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

**GENERAL TERMS & CONDITIONS
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **West Virginia Alcohol & Drug-Free Workplace Act:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications:
Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130,
Charleston, WV 25305-0130

PRINT LEGIBLYRFQ # : 14350 Bid Date: 07-17-08Project: Amherstdale Water Tx Plant Upgrade Pre-Bid Date: 06-17-08Name : RANDALL PACKCompany: WVDEP/AML

Address: _____

OAK HILL, WVPhone #: 304-465-1911

Fax #: _____

Email : rpack@wvdep.orgName : Justin HaymondCompany: WVDEP/AML

Address: _____

Oak Hill, WVPhone #: 304 465-1911

Fax #: _____

Email : jhaymond@wvdep.orgName : JAMES YOAKCompany: HAYSLETT CONST. CO

Address: _____

HURRICANE, WV25526Phone #: 304-757-9348Fax #: 304-757-9561Email : JYOAK@CITYNET.NETName : Griffin McCabeCompany: Orders Construction

Address: _____

Saint Albans WV25177Phone #: 304 722 4237Cell: 349 4397Email : griffinm@ordersConstruction
.comName : Jim BillheimerCompany: Plumco Inc

Address: _____

4th AvePhone#: 304 529 3328Fax #: 304 529 3325Email : jim.billheimer@
adelphia.netName : David CrawfordCompany: BCPSD

Address: _____

Box 209Amherstdale WV 25607Phone#: 583-6586 OFFICE

Fax #: _____

Email : bcpsd@yahoo.comName : Phillip CantrellCompany: BCPSD

Address: _____

Amherstdale WV 25607Phone#: 583-2168 - WATER PLANT

Fax #: _____

Email : bcpsd@yahoo.comName : Keith SkeltonCompany: Breckenridge Corp

Address: _____

PO Box 247Buckhannon WV 26201Phone#: 304-472-3350Fax #: 472-8506Email : Carey@breckenridgecorp.com

MANDATORY PRE-BID SIGN-IN ATTENDANCE SHEET

003

PRINT LEGIBLY

RFQ # : 14350

Bid Date: 07-17-08

Project: Amherstdale Water Tx Plant Upgrade

Pre-Bid Date: 06-17-08

Name : DAVE BOAL

Name : _____

Company: AML

Company: _____

Address: Oak Hill

Address: _____

Phone #: 405-1911

Phone# : _____

Fax # : _____

Fax # : _____

Email : _____

Email : _____

Name : Matthew Fluharty

Name : _____

Company: Thrasher Eng

Company: _____

Address: _____

Address: _____

Charleston WV

Phone #: 304-824-4608

Phone# : _____

Fax # : _____

Fax # : _____

Email : _____

Email : _____

Name : _____

Name : _____

Company: _____

Company: _____

Address: _____

Address: _____

Phone #: _____

Phone# : _____

Fax # : _____

Fax # : _____

Email : _____

Email : _____

Name : _____

Name : _____

Company: _____

Company: _____

Address: _____

Address: _____

Phone #: _____

Phone# : _____

Fax # : _____

Fax # : _____

Email : _____

Email : _____

MANDATORY PRE-BID SIGN-IN ATTENDANCE SHEET

PRINT LEGIBLY

RFQ # : 14350 Bid Date: 7-17-08
Project: Amherstdale Water Treatment Upgrade Pre-Bid Date: 6-30-08

Name : RANDALL PACK
Company: WV DEP / AML
Address: OAK HILL, WV
Phone #: 304-465-1911
Fax # : _____
Email : rpack@wvdep.org

Name : Phillip Cantrell
Company: BCPSD
Address: P.O. Box 209 Amherstdale WV 25607
Phone# : _____
Fax # : _____
Email : _____

Name : Justin Haymond
Company: WV DEP / AML
Address: Oak Hill, WV
Phone #: 304-465-1911
Fax # : _____
Email : jhaymond@wvdep.org

Name : Liana Wilson
Company: BCPSD
Address: P.O. Box 209 Amherstdale WV 25607
Phone# : _____
Fax # : _____
Email : _____

Name : DAVE BEAL
Company: AML
Address: Oak Hill
Phone #: 465-1911
Fax # : _____
Email : _____

Name : _____
Company: _____
Address: _____
Phone# : _____
Fax # : _____
Email : _____

Name : Jonathan Carpenter
Company: Thrasher Environmental
Address: 300 Association Drive Charleston, WV 25311
Phone #: 304-343-7601
Fax # : 304-343-7604
Email : jcarpenter@thrasherenv.com

Name : _____
Company: _____
Address: _____
Phone# : _____
Fax # : _____
Email : _____

RECEIVED / MAIL
2008 JUN -3 PM 2:09
MAIL DELIVERY

Amherstdale Water Treatment Plant Upgrade Project PBC

Req# 14350

06/17/2008

Questions:

1. Does a copy of the Bid need to be sent to the Bid Observer?
A: No. Only one copy of the bid will be submitted to the Buyer at the State Purchasing Division. The bid needs to be submitted by or before the opening date and time.
2. Who performs inspection?
A: The WVDEP.
3. Has the Power Company been notified?
A: Yes, they are aware (according to the PSD), but it is the Contractor's responsibility to have it relocated.
4. What permits are required by the contractor?
A: Answered by Consultant – attached.
5. What is the downstream end of the bank protection (the plans do not show this)?
A: Answered by Consultant – attached.
6. How much retainage will be held?
A: There will be no retainage on this project, only bonds.
7. Is a field office required?
A: Answered by Consultant – attached.
8. What is the last day that questions will be taken (before the bid opening)?
A: All questions asked after the meeting is over must be asked through the Division of Purchasing. Contact the Buyer for guidelines, if needed.
9. Can we get a copy of the geo-tech report?
A: Answered by Consultant – attached.
10. In order to construct the water treatment plant, particularly the bridge, the overhead electric/utility lines which run along the east side of Route 16/80 will have to be relocated permanently to the west side of Route 16/80 in order to set the bridge with a crane. Please revise plans and make point of contact. Will owner pay for relocation?
A: Answered by Consultant – attached.

11. Is it in the plans for the existing well closure?
A: Yes, there is a bid item.
12. Is there work inside the building on existing facilities?
A: Yes, there is some work on the existing pipes.
13. Is there an approved, nearby waste or borrow area?
A: No, it is the responsibility of the Contractor to find any waste/borrow area needed. Any required permits must be obtained by the contractor. PSD may be able to assist in finding a waste/borrow area.
14. The sewer connection is in the (county) road, not where the plans show on the side of the road.
A: The Contractor is required to verify the location of all utilities. If it is in the road the plan quantity may be modified accordingly. There is a pay item for road restoration. The item will be used to tie the bridge into the road as well.

Please Note: Per Exhibit 5 of the original Request for Quotation, the requirements for proof of Commercial General Liability Insurance and the requirement of a 5% Bid Bond, as well as the Performance and Labor/Material Bond requirements, are a part of this RFQ even though these requirements were not indicated in the original advertisement.

Amherstdale Water Treatment Plant Upgrade

0017

Revised per Addendum No. 3

Requisition # DEP14350

Contractor's Bid Sheet

Company Name: _____

Address: _____

The DEP reserves the right to request additional information and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

ITEM NO.	QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1.0	Lump Sum	Mobilization/Demobilization	LS	\$
2.0	Lump Sum	Videotaping of Project Area	LS	\$
3.0	Lump Sum	Erosion & Sediment Control	LS	\$
4.0	Lump Sum	Con/Span Bridge System	LS	\$
5.0	Lump Sum	Demolition of Existing Structures	LS	\$
6.0	Lump Sum	Closing of Existing Water Well	LS	\$
7.0	Lump Sum	Relocation of Existing Incoming Power	LS	\$
8.0	183 CY	Flocculation Basin (Concrete)		\$
9.0	Lump Sum	Flocculation Basin Mixers w/VFD Controls	LS	\$
10.0	4 EA	4" Mud Valves		\$
11.0	Lump Sum	Miscellaneous Metals/Grating/Handrails/Stairs/Valve Pedestals	LS	\$
12.0	376 CY	Sedimentation Basin (Concrete)		\$
13.0	2 EA	Chain & Flight Collectors		\$
14.0	Lump Sum	Scum Pipes and Associated Piping	LS	\$
15.0	2 EA	Tube Settlers		\$
16.0	Lump Sum	Pre-Treatment Applied Water Pumps, Valves, and Associated Piping	LS	\$
17.0	4 EA	4" Plug Valves w/Pedestals, Handwheel Operators, and Associated Piping		\$
18.0	Lump Sum	Static In-line Mixer and Associated Piping	LS	\$
19.0	Lump Sum	Site Piping	LS	\$
20.0	Lump Sum	Site Electrical	LS	\$
21.0	Lump Sum	Stream Bank Rip Rap	LS	\$
22.0	Lump Sum	Connection to Existing Sewer	LS	\$
23.0	Lump Sum	10" Tideflex Valve	LS	\$
24.0	Lump Sum	Concrete Headwall	LS	\$
25.0	Lump Sum	HLBC Street Repair	LS	\$
26.0	Lump Sum	Site Restoration	LS	\$
TOTAL				\$

VERULON TELEPHONE
1-800-562-2355

BUFAU UNELK P-3J
P.O. BOX 209
AMHERSTDALE, WV 25607
304-583-6586

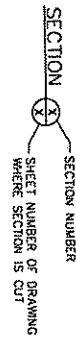
ELECTRIC:
AMERICAN ELECTRIC
POWER 1-800-892-4237

GAS:
ALLEGHENY POWER
1-800-225-3443

WEST VIRGINIA DOH
DISTRICT TWO
P.O. BOX 880
HUNTINGTON, WV 25712
PERMIT SUPV. STEVE MANEELY
(304) 528-5629

CABLE
CHARTER COMMUNICATIONS
1-888-345-8483

MISS UTILITY
1-800-245-4848



SECTION NUMBERING SYSTEM

EROSION & SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT MEASURES TO BE IN ACCORDANCE WITH WV EROSION AND SEDIMENT CONTROL HANDBOOK.
2. DISTURBED AREA TO BE STABILIZED WITH TEMPORARY AND FINAL SEEDING AS DESCRIBED IN SPECIFICATIONS.

WEST VIRGINIA D.O.H. NOTES

THE NEW WATER LINE IS TO BE PLACED UNDER OR AROUND ALL DRAINAGE PIPES OR STRUCTURES UNLESS OTHERWISE NOTED.
ALL PIPE TO BE PLACED 5' FROM EDGE OF PAVEMENT OR BOTTOM OF THE DITCH LINE, UNLESS OTHERWISE NOTED.
BLUE MAGNETIC WARNING TAPE MUST BE PLACED 12"-18" BELOW FINISHED GROUND AND DIRECTLY OVER PIPE.
ALL UNSUITABLE MATERIAL WILL BE HANDLED ACCORDING TO SECTION 207.6.2 IN THE WOODH STANDARD SPECIFICATIONS, AT THE DISCRETION OF THE DISTRICT ENGINEER.
MINIMUM NUMBER OF COMPACTION TESTS WILL BE ONE (1) PER 500 FEET OR ONE (1) PER DAY, WHICHEVER IS GREATER.
WOODH ROCK-LINED DITCH SHOULD BE PLACED OVER THE WATERLINE IN ALL AREAS WITHIN WOODH RIGHT-OF-WAYS THAT HAS A 5% OR GREATER SLOPE.
VALVES ARE TO BE PLACED OUT OF THE DITCH LINE IF POSSIBLE.

GENERAL NOTES

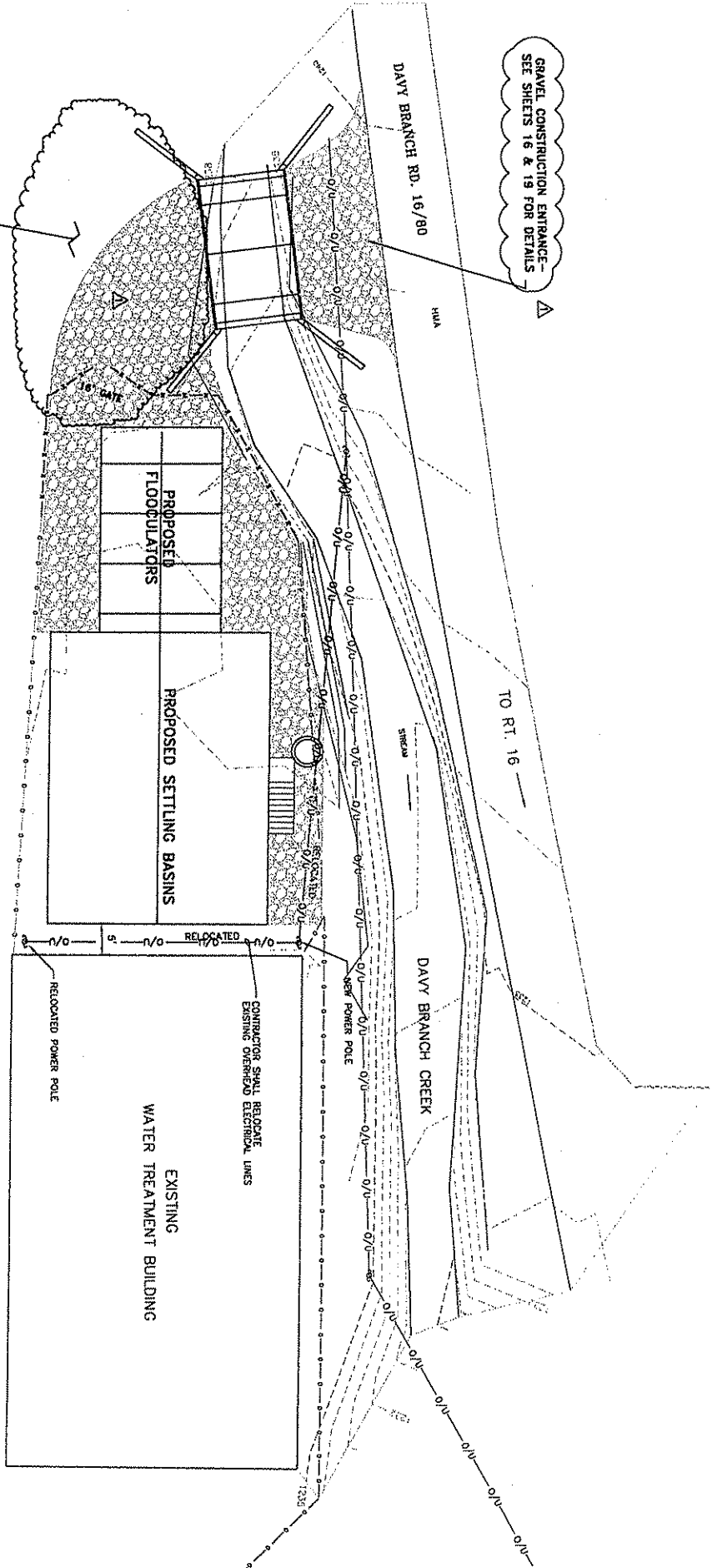
- 1) EXISTING UTILITIES SHOWN ON PLANS WHERE EVIDENCE HAS BEEN FOUND OR PROVIDED BY LOCAL UTILITIES. EXACT DEPTH AND LOCATION OF UTILITY LINES NOT KNOWN. CONTRACTOR TO VERIFY UTILITY LOCATIONS PRIOR TO CROSSING BY CONTACTING MISS UTILITY AT 1-800-245-4848 AND LOCAL UTILITY COMPANIES AS LISTED ON THIS SHEET.
 - A) CONTRACTOR TO LOCATE WATER AND UTILITY SERVICES BEFORE BORING AND JACKING.
 - B) RIGHT-OF-WAYS
 - C) PRIVATE PROPERTY - CONSTRUCTION RIGHT OF WAY TO BE 40' (20' EITHER SIDE OF CENTERLINE) PERMANENT RIGHT-OF-WAY TO BE 20' (10' EITHER SIDE OF CENTERLINE).
 - D) D.O.H. ROADWAYS - CONSTRUCTION RIGHT-OF-WAY TO BE HELD TO THE DEPARTMENT OF HIGHWAYS RIGHT-OF-WAY AND STILL MAINTAIN A SAFE TRAFFIC FLOW, UNLESS OTHERWISE SHOWN.
- 2) WATER LINES
 - A) ALL LINES SHALL HAVE 36" MIN. COVER.
 - B) ALL 6" AND 4" WATER LINES TO BE PVC C-900 CLASS 150 UNLESS SHOWN OTHERWISE ON PLANS.
 - C) ALL 2" WATER LINES 2" PVC SDR-17 UNLESS SHOWN OTHERWISE ON PLANS.
 - D) DUCTILE IRON WATER LINES TO BE CLASS 50 UNLESS SHOWN OTHERWISE ON PLANS.
- 3) WATER METER SETTINGS
 - A) WATER METERS AND SERVICE LINE TO BE LOCATED IN THE FIELD BY THE ENGINEER OR ENGINEER'S REPRESENTATIVE.
 - B) WATER AND SEWER SEPARATION
 - C) HORIZONTAL SEPARATION 10' MIN.
 - D) VERTICAL SEPARATION 18" MIN.
- 4) IN THE EVENT OF AN ERROR WITH THE PLANS SEEMS APPARENT, THE MATTER

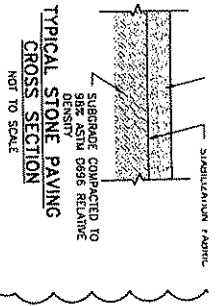
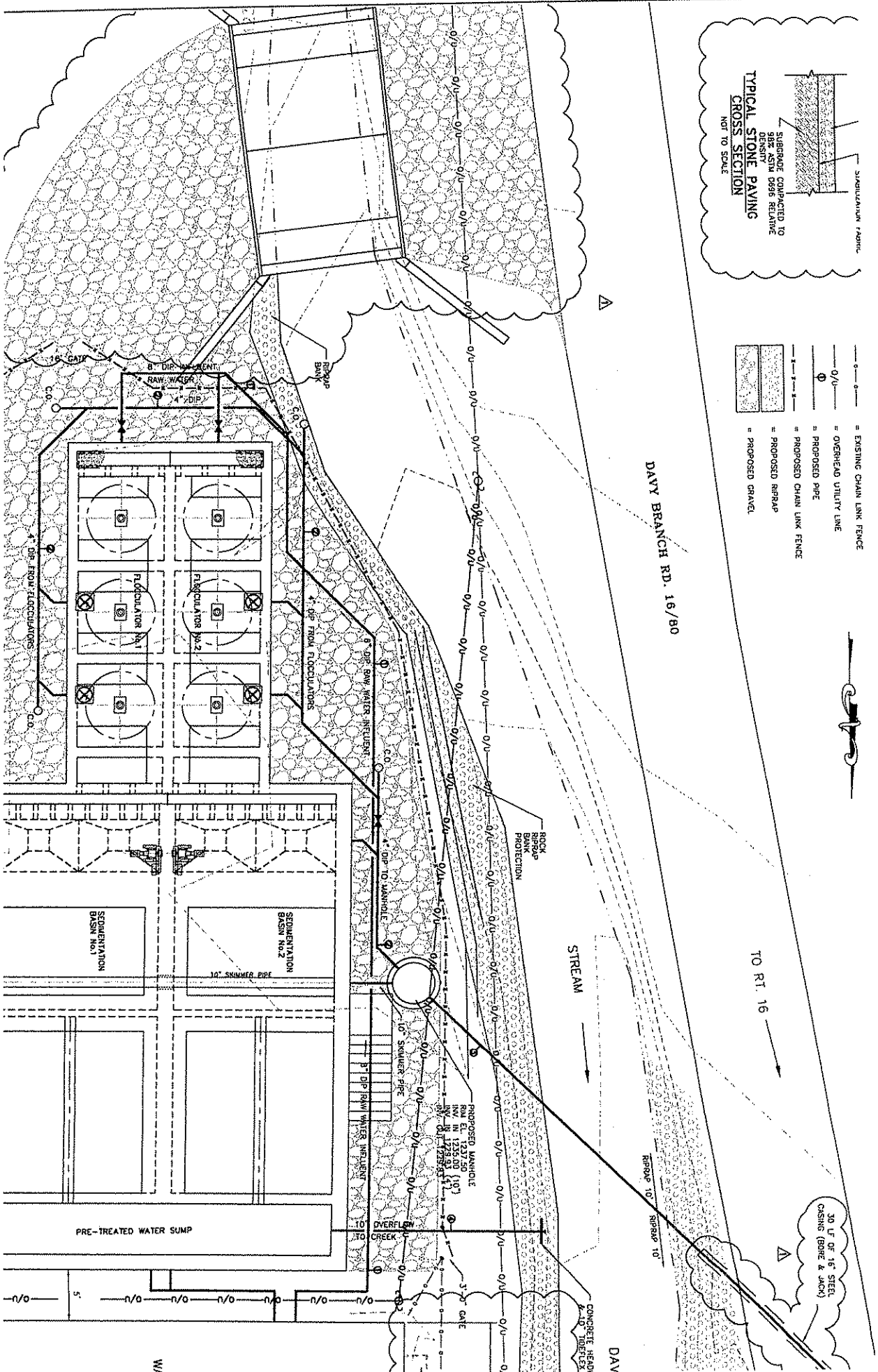
INDEX

SHEET No.	TITLE
COVER	COVER
INDEX	GENERAL NOTES AND INDEX SHEET
1	EXISTING SITE PLAN
1A	EXISTING SITE PLAN - PICTURES
2	PROPOSED SITE PLAN
3	HYDRAULIC PROFILE
4	PROPOSED SITE PIPING PLAN
5	PIPE PROFILES
6	FLOCCULATORS, SEDIMENTATION BASINS - PLAN & SEC
7	FLOCCULATOR - PLAN
8	FLOCCULATOR - SECTION
9	FLOCCULATOR - SECTIONS
10	SEDIMENTATION BASIN - PLAN
11	SEDIMENTATION BASIN - SECTION
12	SEDIMENTATION BASIN - SECTIONS
12A	SEDIMENTATION BASIN - STAIR DETAILS & SLUDGE LINE
13	INTERCONNECTING PIPING PLAN TO EXISTING WTP
14	INTERCONNECTING PIPING SECTION TO EXISTING WTP
15	BRIDGE DETAILS
16	EROSION CONTROL PLAN
17	STANDARD DETAILS
18	STANDARD DETAILS
19	STANDARD DETAILS
20	STANDARD DETAILS
21	STANDARD DETAILS
S1	FLOCCULATOR, SEDIMENTATION BASINS - STRUCTURAL I
S2	FLOCCULATOR - STRUCTURAL SECTION
S3	FLOCCULATOR - STRUCTURAL SECTIONS & DETAILS
S4	SEDIMENTATION BASIN - STRUCTURAL SECTION
S5	SEDIMENTATION BASIN - STRUCTURAL SECTIONS & DET
SU1	SITE UTILITY PLAN
E1	ELECTRICAL PLAN - FLOCCULATOR AND SEDIMENTATION
E2	ELECTRICAL PLAN - EXISTING WTP
E3	ELECTRICAL DETAILS

NOTE:
CONTRACTOR SHALL CLEAR AND GRUB
EXISTING AND REMOVE ALL
CONSTRUCTION ENTRANCE

GRAVEL CONSTRUCTION ENTRANCE—
SEE SHEETS 16 & 19 FOR DETAILS





- EXISTING CHAIN LINK FENCE
- OVERHEAD UTILITY LINE
- Ø PROPOSED PIPE
- ▭ PROPOSED CHAIN LINK FENCE
- ▭ PROPOSED RIPRAP
- ▭ PROPOSED GRAVEL



30 L' OF 16" STEEL CASING (BONE & JACK)

DAVY BRANCH RD. 16/B0

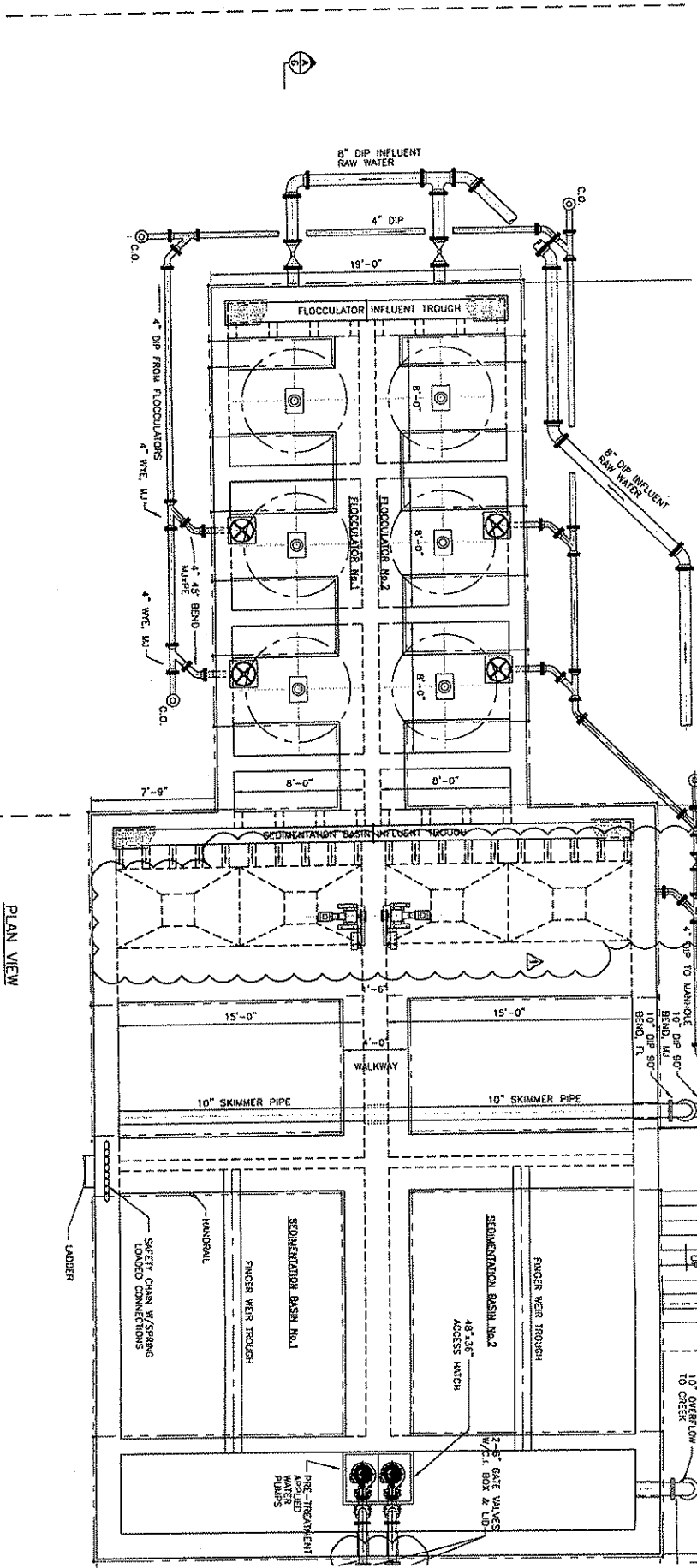
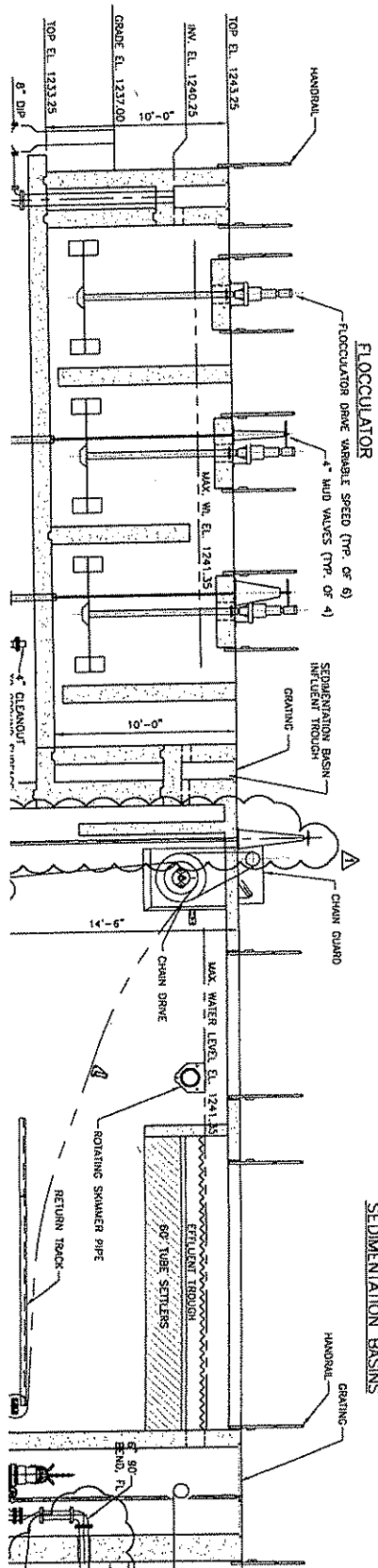
STREAM

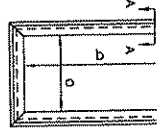
TO RT. 16

PROPOSED 10" RIPRAP TO

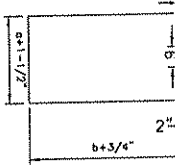
CONCRETE HEAD & 40\"/>

WA





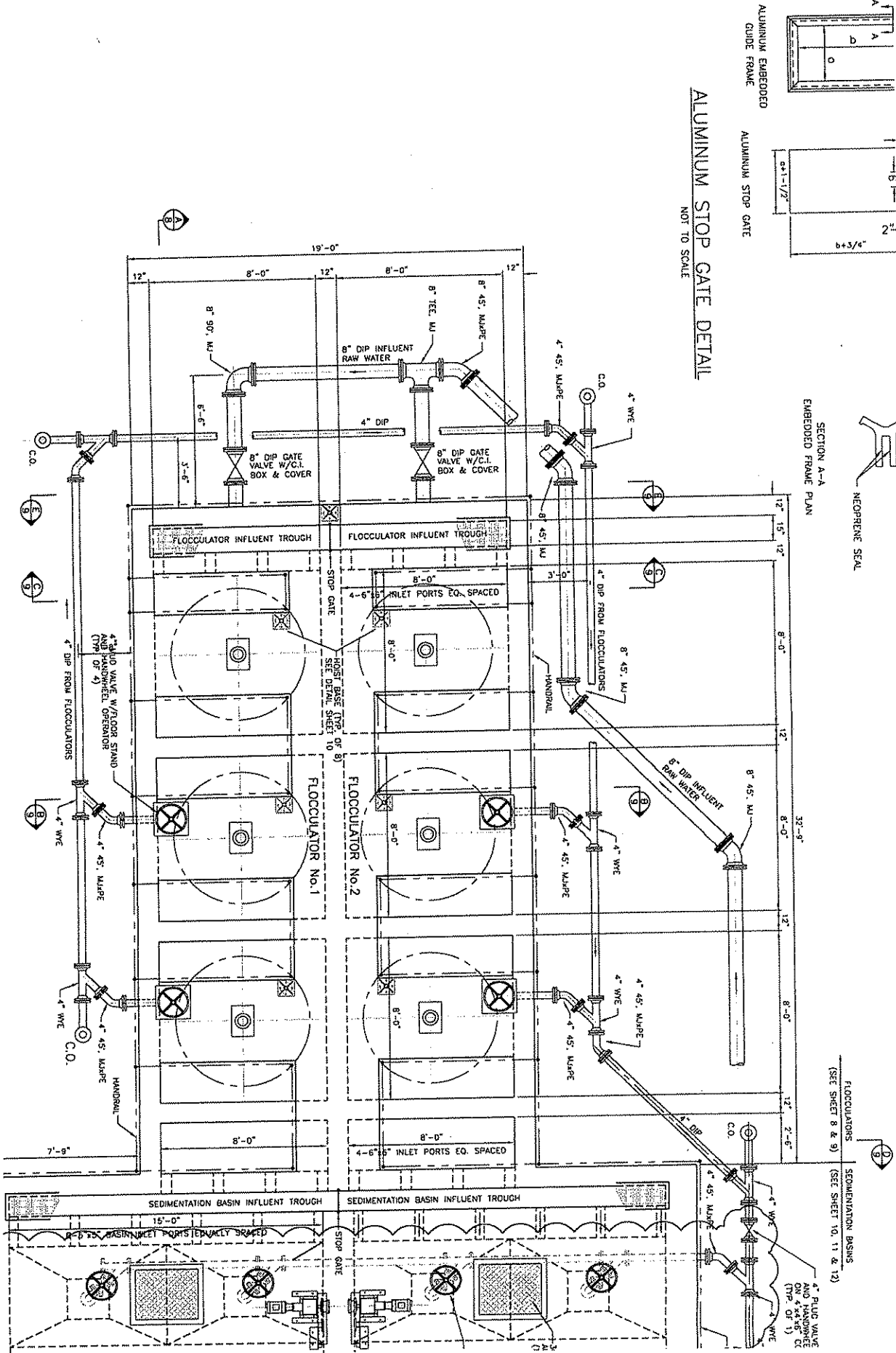
ALUMINUM EMBEDDED GUIDE FRAME



ALUMINUM STOP GATE

ALUMINUM STOP GATE DETAIL

NOT TO SCALE



SECTION A-A EMBEDDED FRAME PLAN

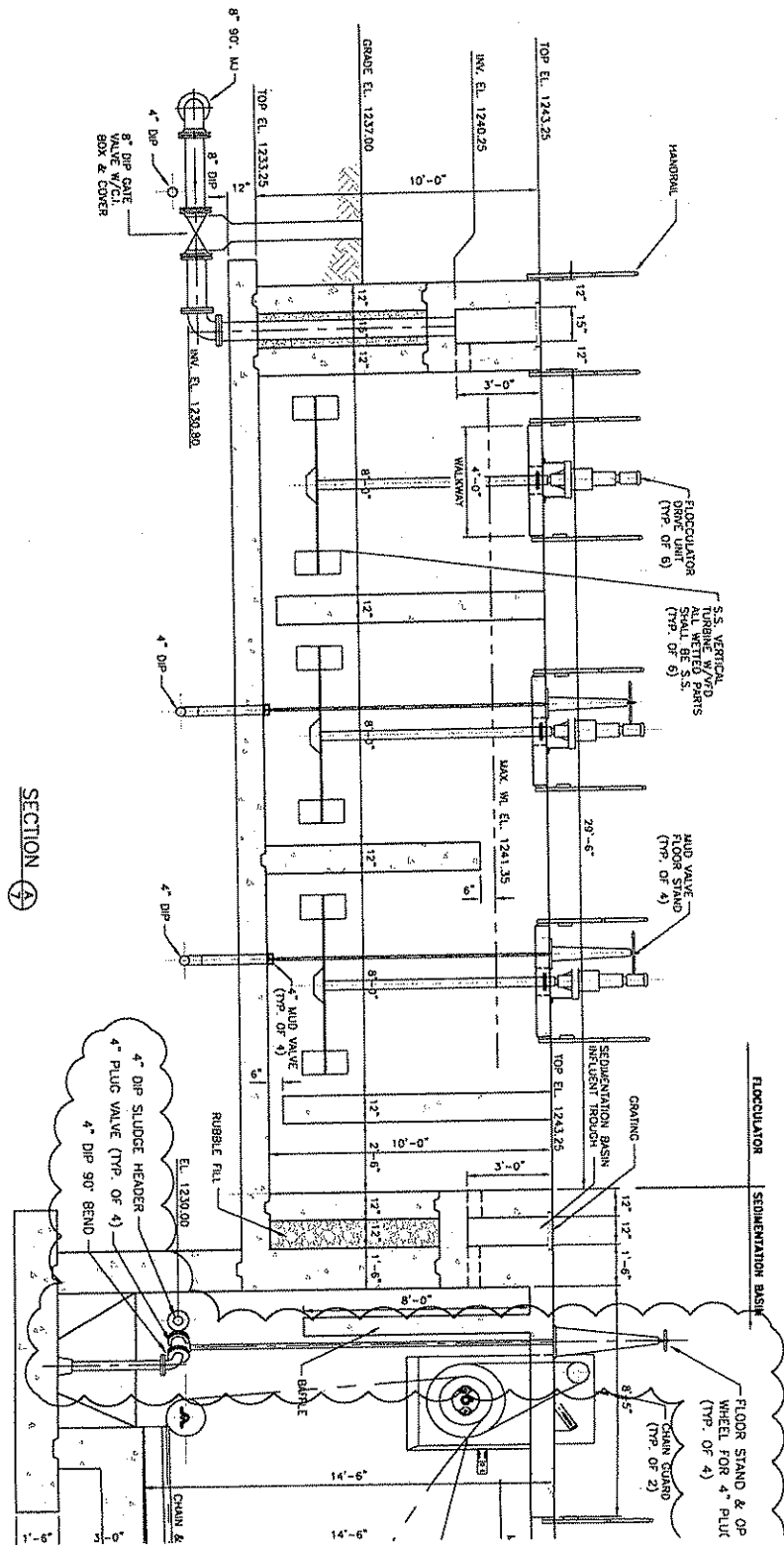


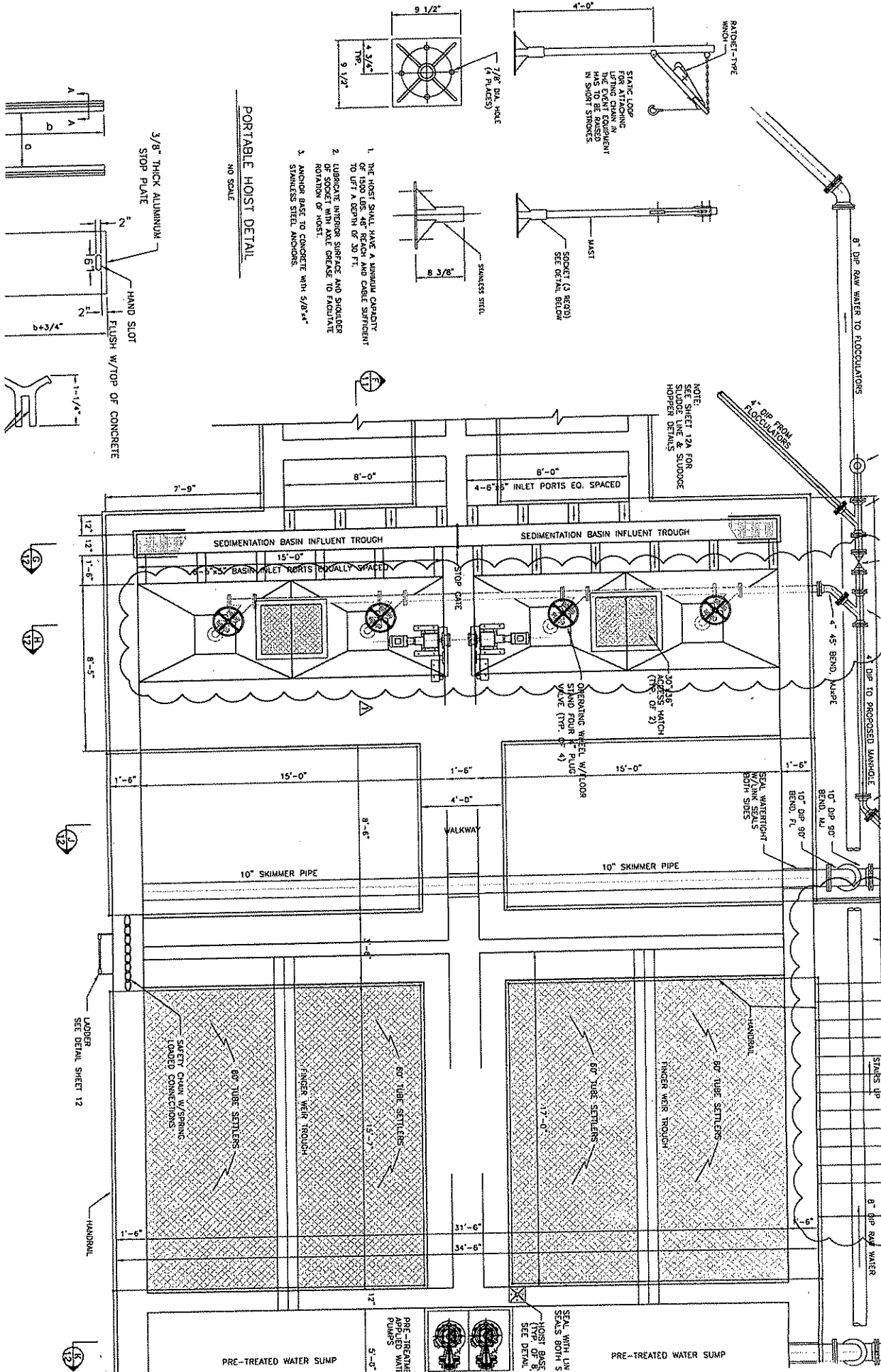
NEOPRENE SEAL

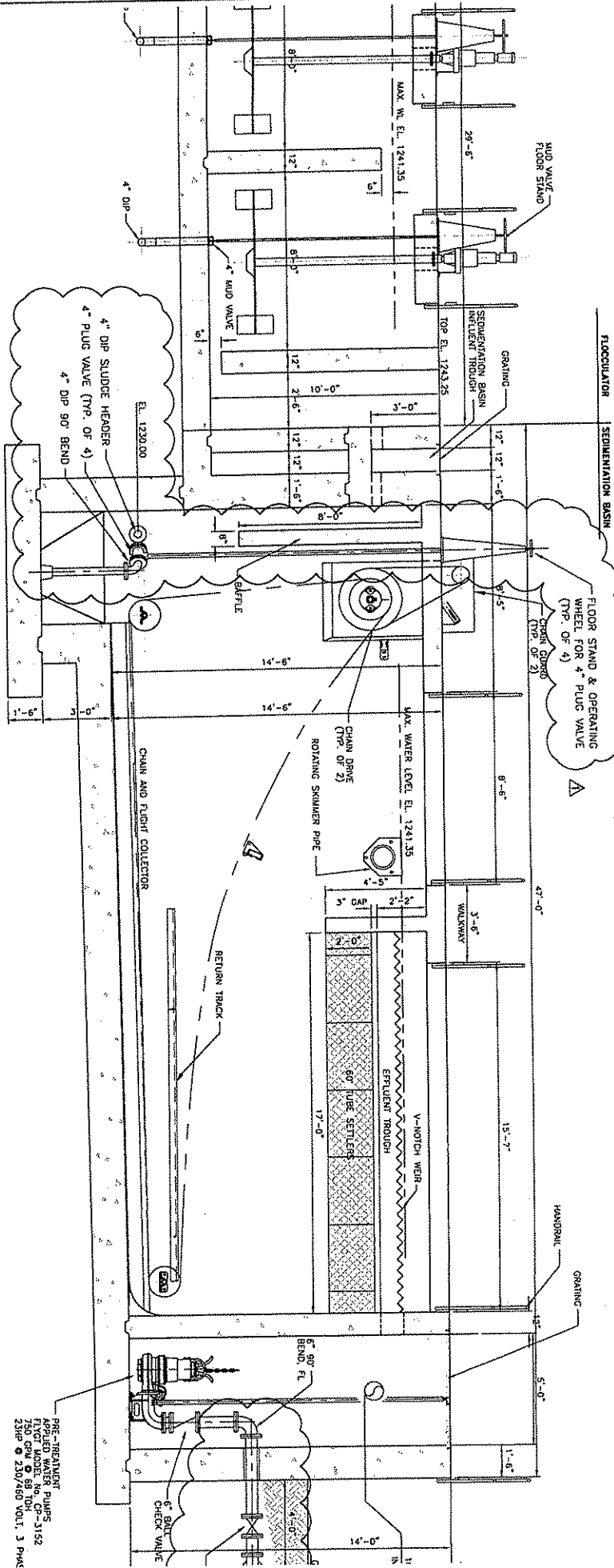
FLOCCULATORS (SEE SHEET 8 & 9)

SEDIMENTATION BASINS (SEE SHEET 10, 11 & 12)

4\"/>







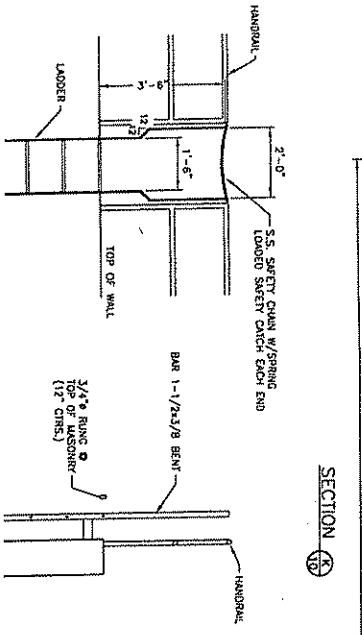
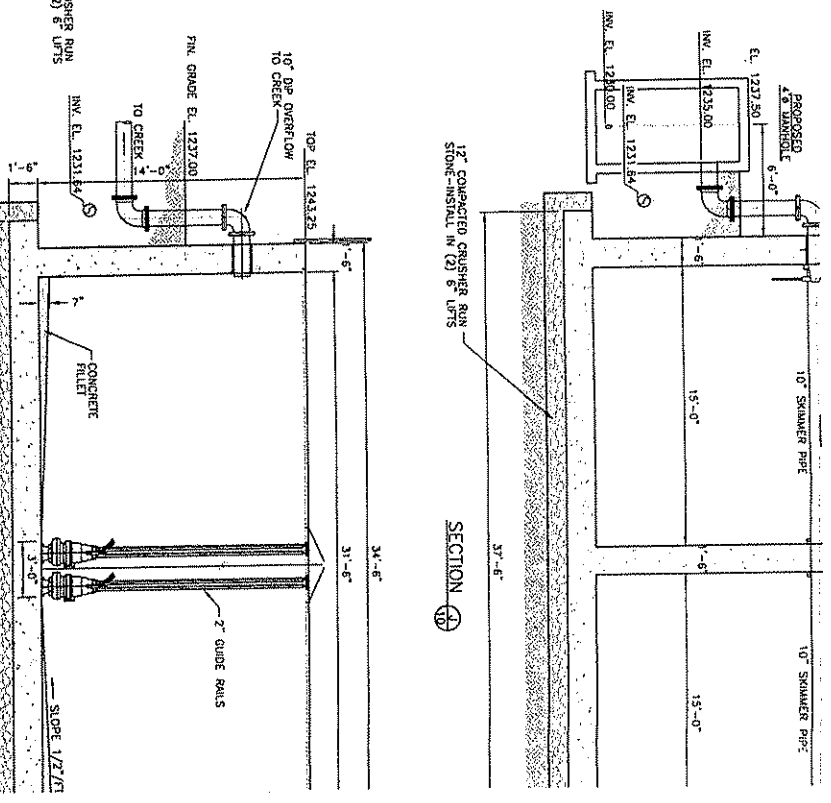
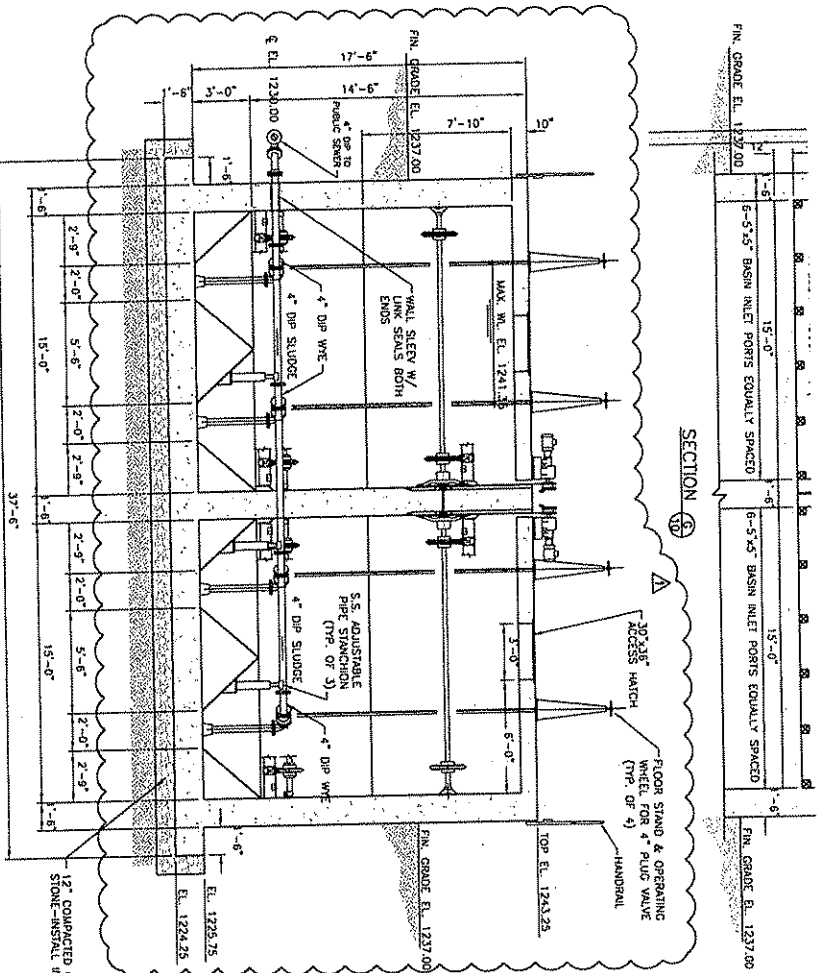
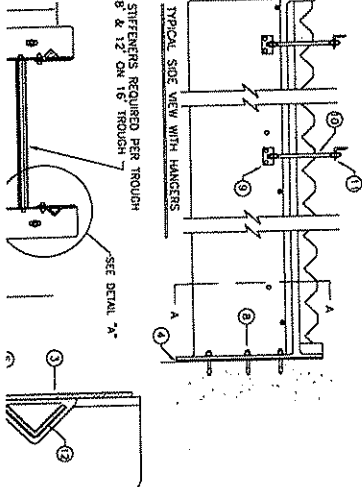
SECTION F-10

PRE-TREATMENT
 APPLIED WATER PUMPS
 FIVE STAR MODEL NO. CP-3152
 23HP @ 230/460 VOL. 1.3 PHAS

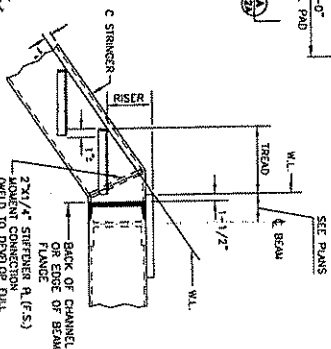
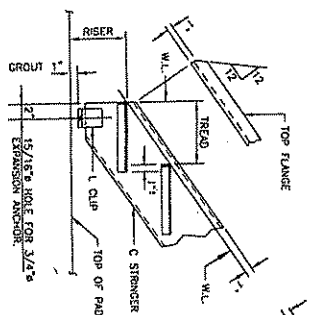
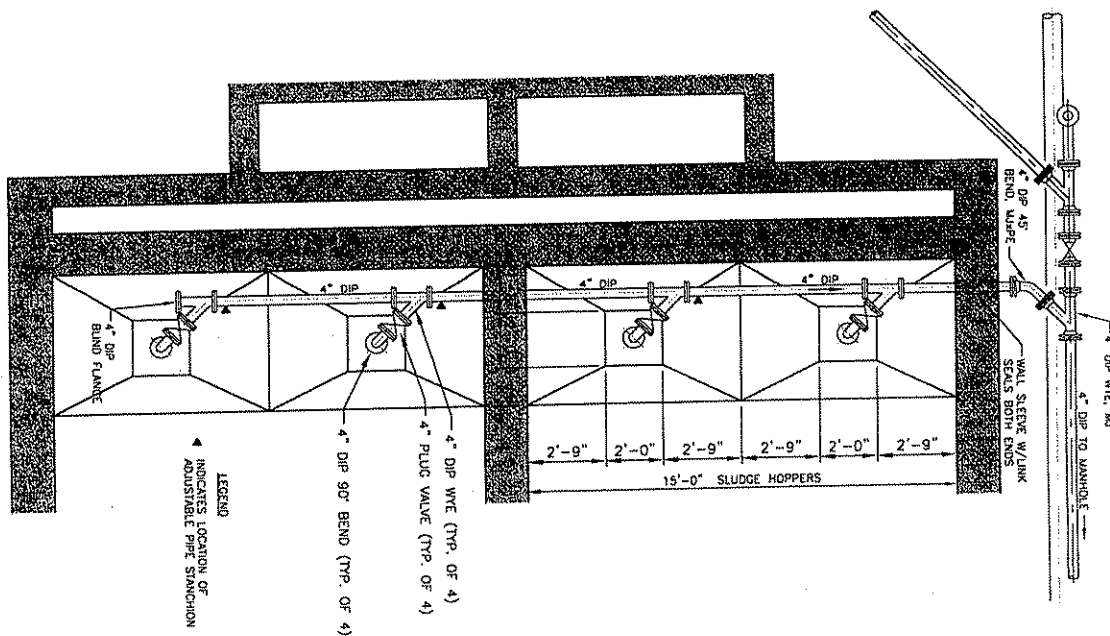
ITEM	DESCRIPTION
1	Through to floor support, galvanized steel surface
2	Spacer rods - PVC - 1" dia
3	Weld plates - 1/2" thick
4	Coupler - 1/2" diameter
5	Weld & spacer rods - SS - 3/8" x 1 1/2"
6	Weld rods - SS - 3/8"
7	Weld rods - SS - 3/8"

BILL OF MATERIAL

THREE STIFFENERS REQUIRED PER TROUGH
 @ 4", 8" & 12" ON 16" TROUGH



SLUDGE LINE & SLUDGE HOPPER DETAILS
SCALE: 3/8"=1'-0"

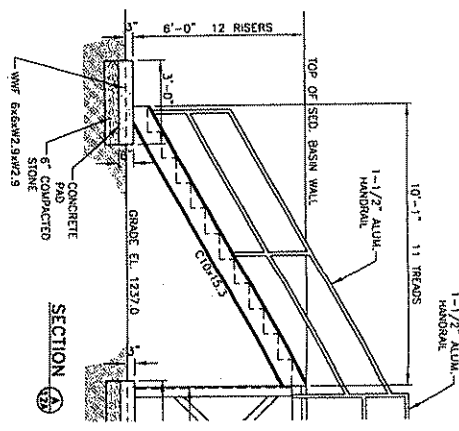
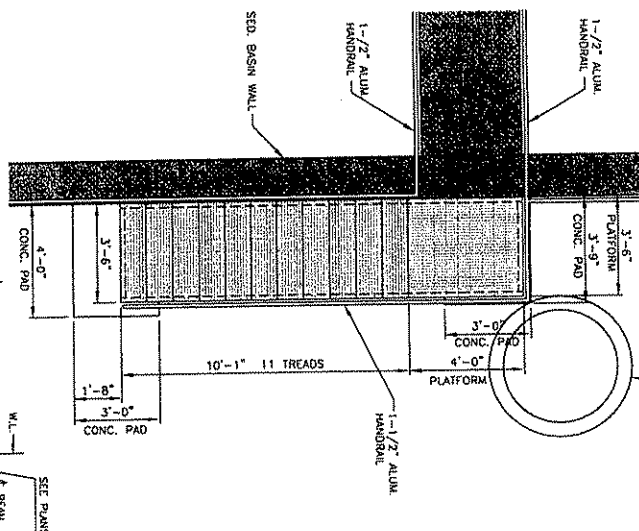
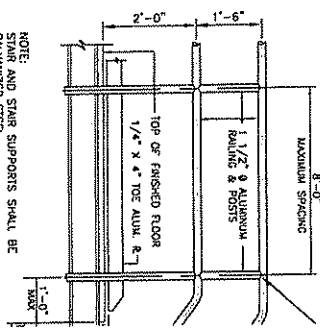


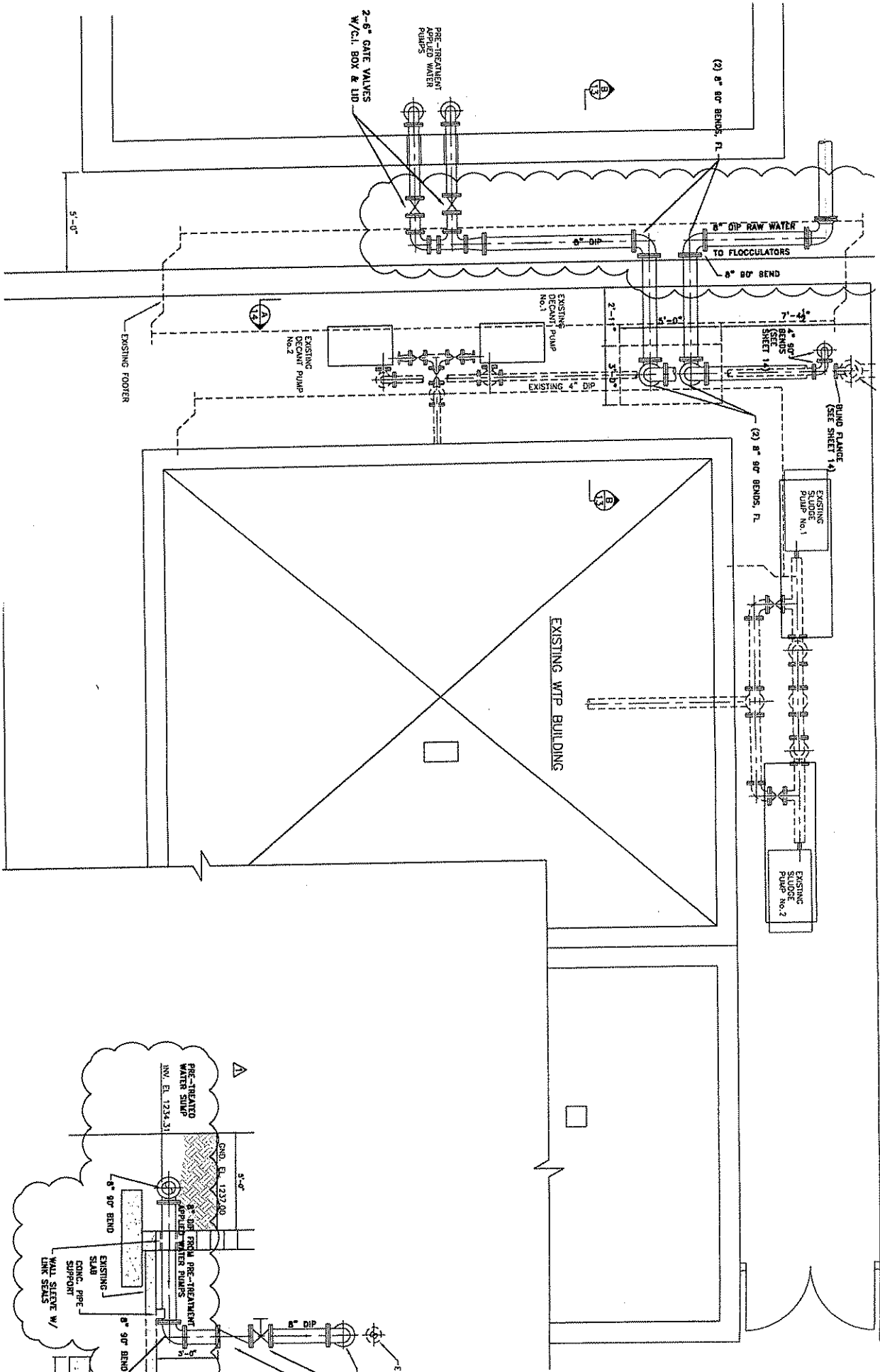
STAIR DETAIL
NOT TO SCALE

ELEVATION ALUMINUM HAN
NOT TO SCALE

NOTE:
STAIR AND STAIR SUPPORTS SHALL BE GALVANIZED STEEL.

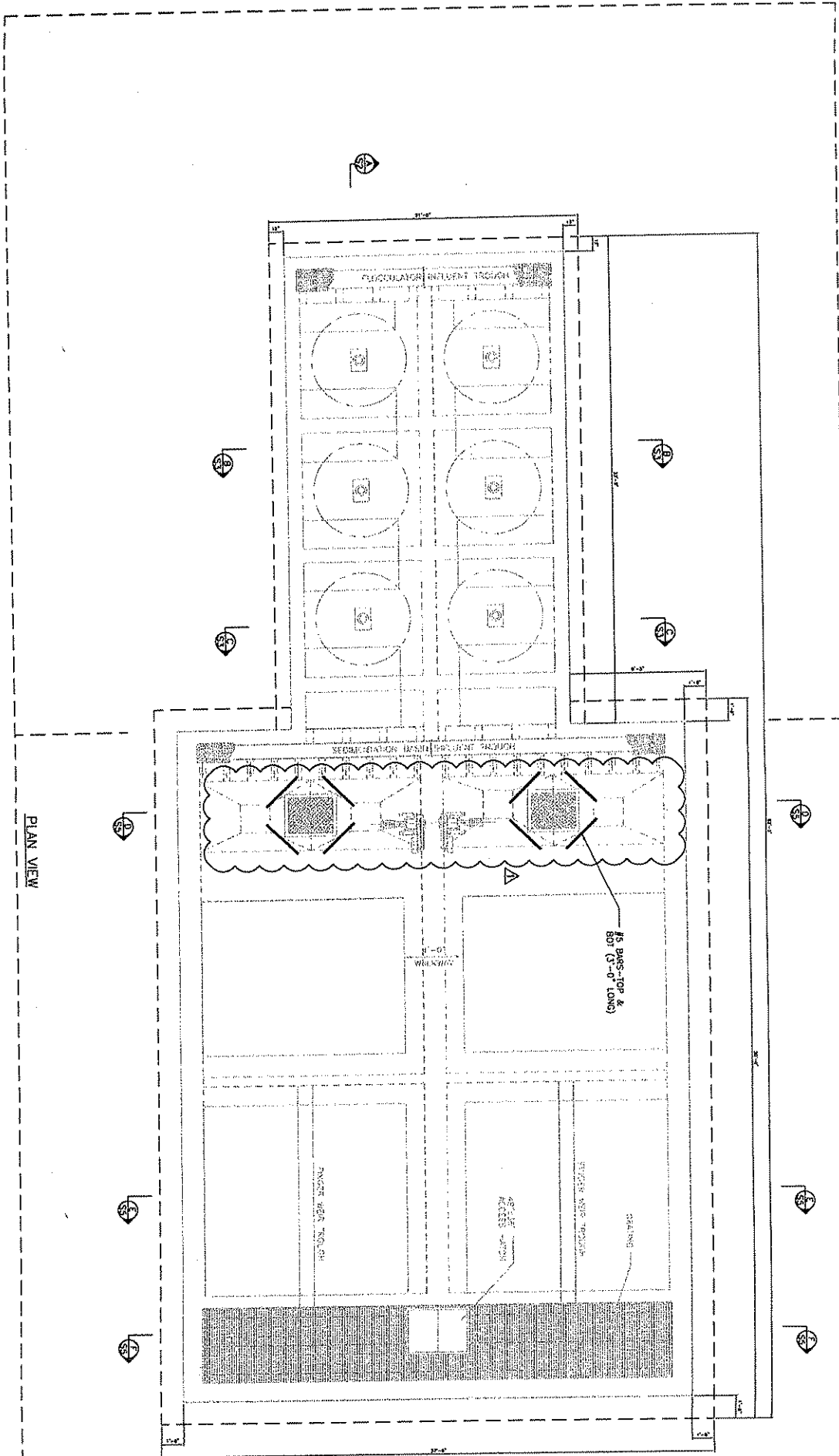
SEE PLAN FOR CLEARANCE



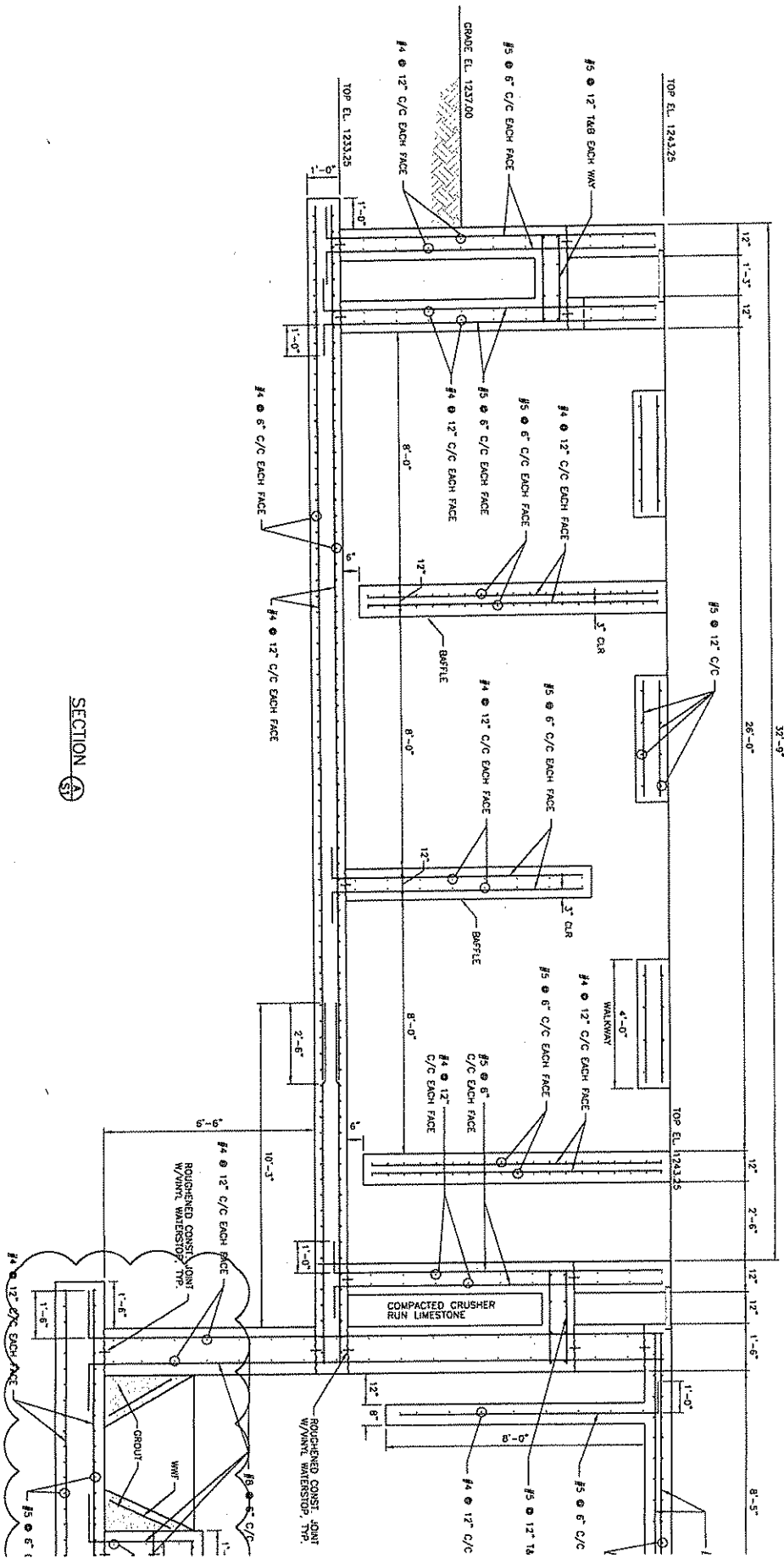


SEE SHEET NO. S2 & S3 FOR FLOCCULATOR DETAILS

SEE SHEET NO. S4 & S5 FOR SEDIMENTATION BASIN DETAI



PLAN VIEW



SECTION A-S1

FLOCCULATOR SEE SHEET S3	SEDIMENTATION BASIN SEE SHEET S4 & S5
-----------------------------	--

