Orange Water and Sewer Authority

Our community's trusted partner for clean water and environmental protection

ADDENDA

ADDENDUM NUMBER 01

DATE: 10-07-2024

PROJECT: Return Activated Sludge Pumping System Improvements

OWASA CIP NUMBER: 278-89

OWNER: ORANGE WATER AND SEWER AUTHORITY

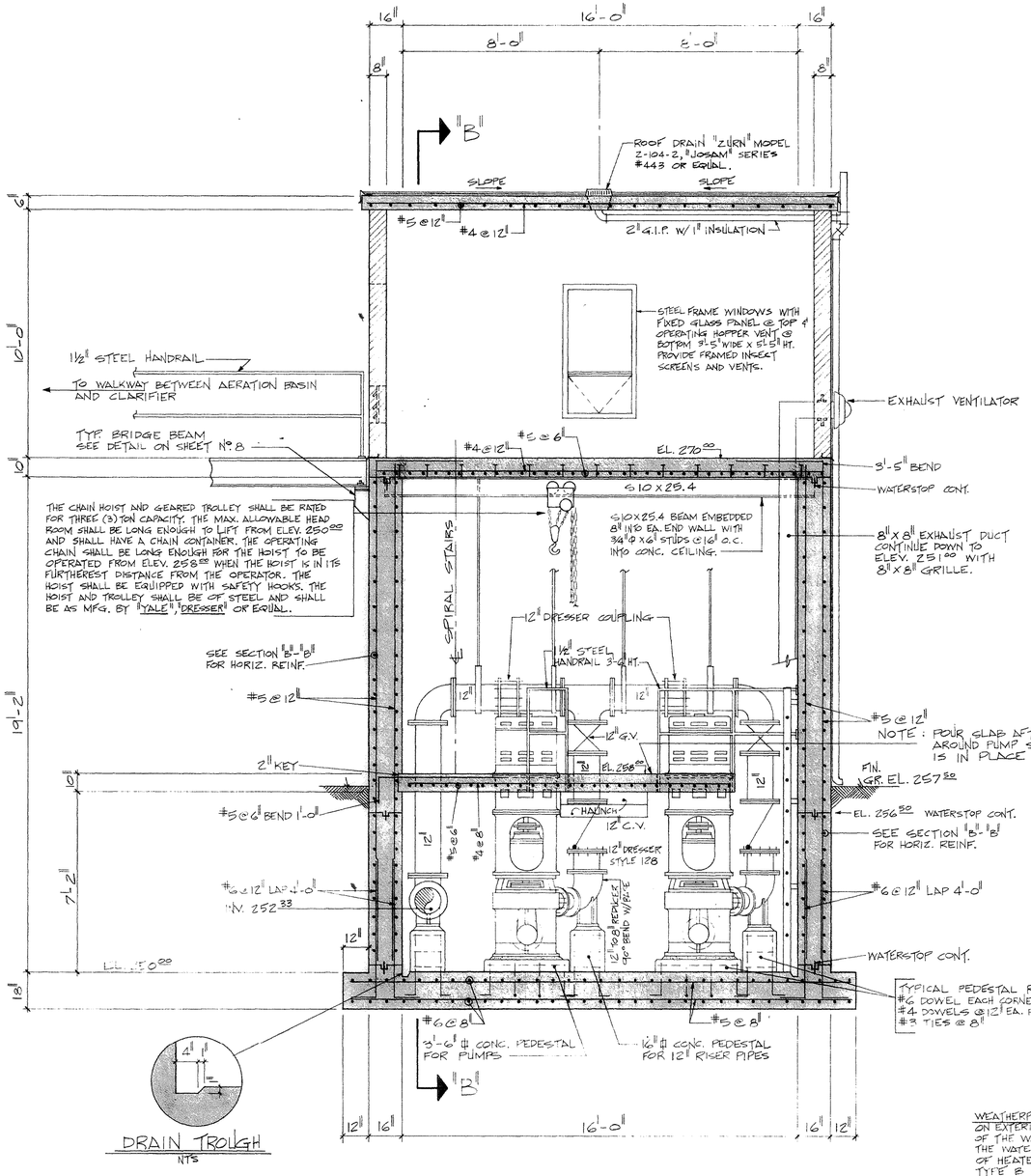
TO: ALL SUBMITTERS

This Addendum is to provide additional drawings detailing the yard piping to and from the sludge wet well.

Acknowledge receipt of this Addendum in the space provided in the RFQ form.

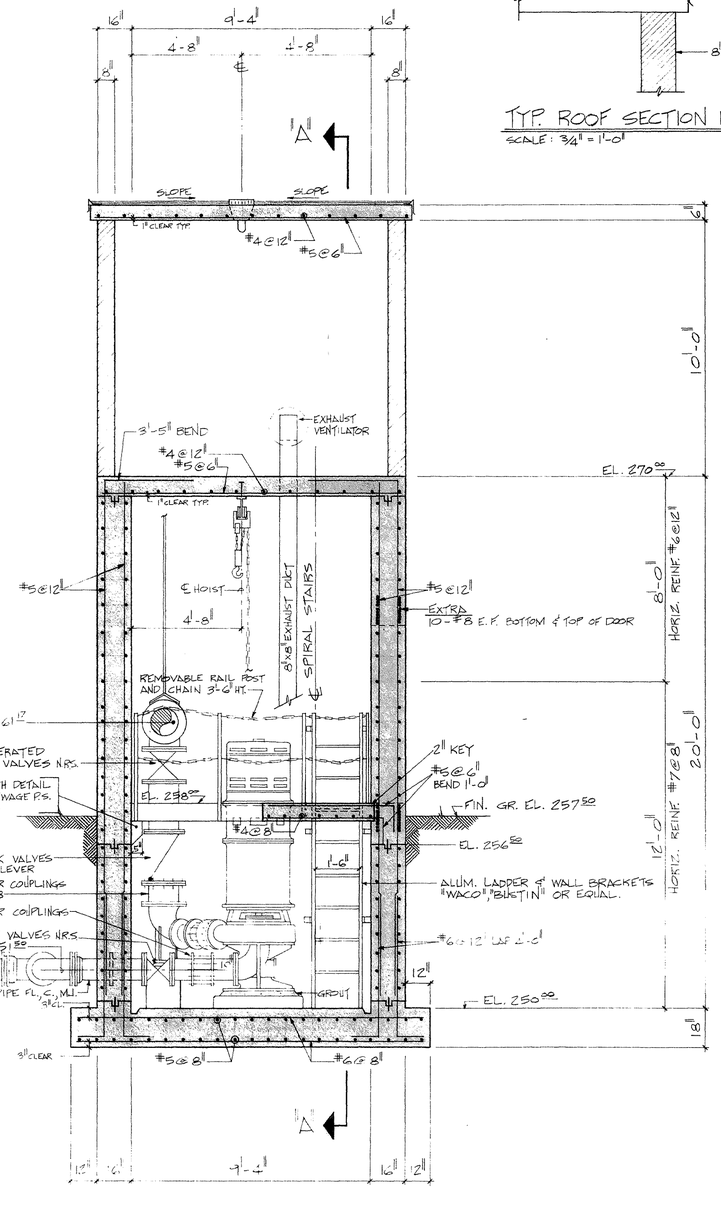
Addenda #01 consists of 4 pages:

SLUDGE PUMP STATION BUILT IN 1976



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

WEATHERPROOFING - PROVIDE MEMBRANE WATERPROOFING ON EXTERIOR WALLS AND SHALL COVER THE FULL HEIGHT OF THE WALLS TO WITHIN 12" OF THE FINISHED GRADE E.LEV. THE WATERPROOFING SHALL BE THREE (3) PLIES CONSISTING OF HEATED COAL TAR WATERPROOFING PITCH ASTM D-450 TYPE B AND WOVEN GLASS FABRIC MEMBRANE ASTM D-1668 APPLICATION AND SURFACE PREPARATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



TWO - 2x4" TREATED WOOD NAILER
20 YR. BUILT-UP ROOF
2" RIGID INSULATION
GROUT - SLOPE TO DRAIN
ALUM. GRAVEL STOP
8" BRICK

TYP. ROOF SECTION DETAIL
SCALE : 3/4" = 1'-0"

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

AS BUILT

WWTP-1976A

NO.	REVISIONS	DATE
1		
2		
3		
4		

SLUDGE PUMP STATION
SECTIONS & DETAILS

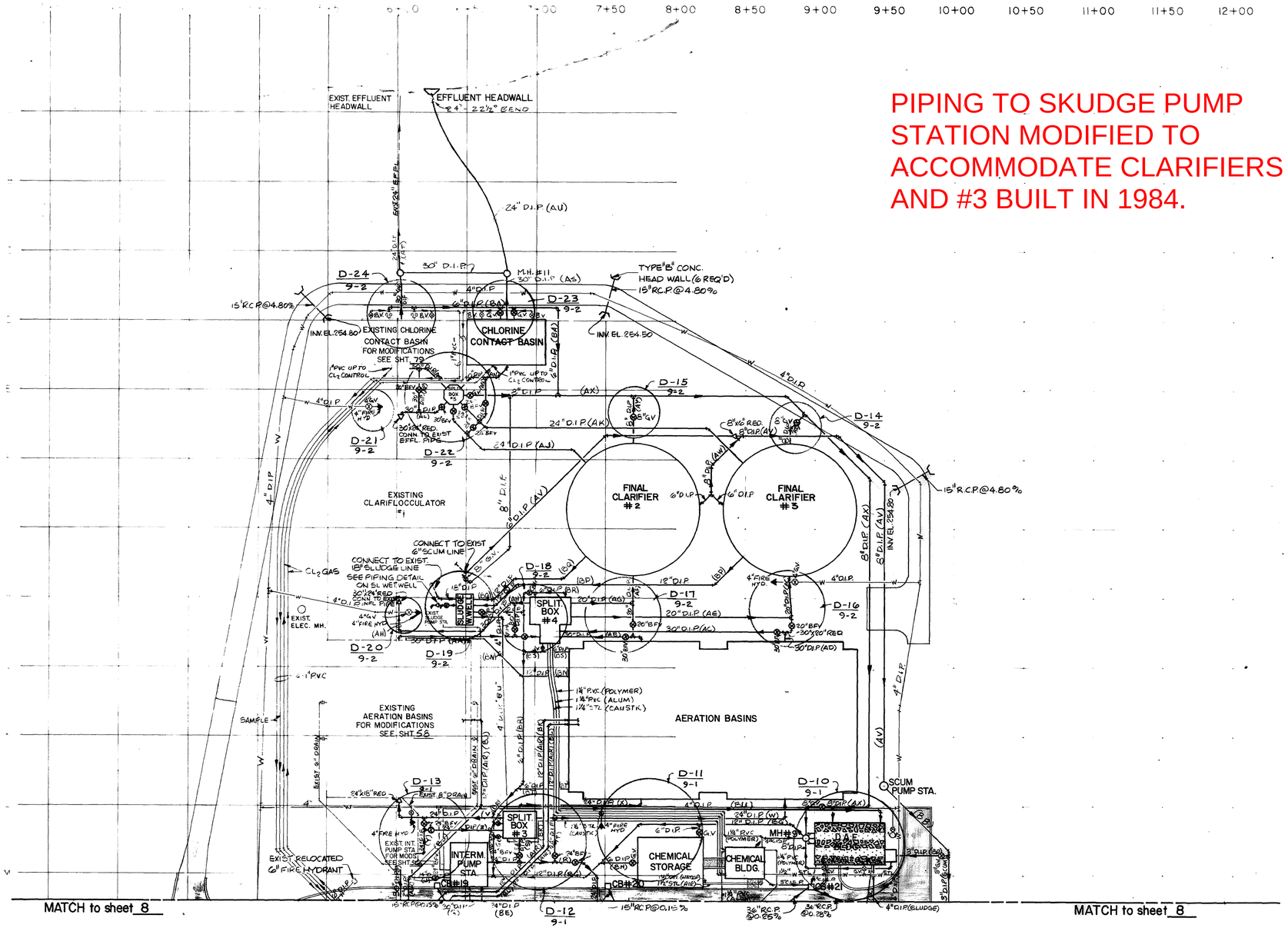
THE TOWN OF CHAPEL HILL
INTERIM IMPROVEMENTS TO MASON FARM WASTEWATER TREATMENT PLANT

DRAWN BY TCS
DESIGNED BY SIP
DATE NOV., 76
SCALE AS NOTED

ROSE, PRIDGEN & FREEMON, INC.
CHAPEL HILL, RALEIGH & NEW BERN, N.C.

SHEET 12 OF
CHL-76-5 JOB NUMBER

BRUNING 40-105 24378



PIPING TO SKUDGE PUMP STATION MODIFIED TO ACCOMMODATE CLARIFIERS #2 AND #3 BUILT IN 1984.

MANHOLE SCHEDULE		CATCH BASIN SCHEDULE	
M.H. #9	4'-0" DIA.	C.B. #19	TYPE "H"
TOP ELEV. 255.00		THROAT ELEV. - 255.50	
INV. IN (8") (LINE AX) - 250.80		INV. OUT (18") - 246.25	
INV. IN (ALL OTHERS) - 251.00		C.B. #20	TYPE "H"
INV. OUT (12") - 250.00		THROAT ELEV. - 258.50	
M.H. # 10	6'-0" DIA.	INV. OUT (15") - 248.50	
TOP ELEV. - 258.50		C.B. #21	TYPE "H"
INV. IN (ALL) - 253.21		THROAT ELEV. - 253.00	
INV. OUT (24") - 253.00		INV. IN (8") - 251.00	
M.H. # 11	6'-0" DIA.	INV. IN (4") - 251.00	
TOP ELEV. - 258.50		INV. IN (36") - 243.06	
INV. IN (ALL) - 253.21		INV. OUT (36") - 242.81	
INV. OUT (24") - 253.00			

LEGEND FOR SHEETS 8 & 9

- BFV - BUTTERFLY VALVE W/C.I. BOX & EXT. STEM W/OP'G NUT
- B.V. - BALL VALVE W/C.I. BOX & EXT. STEM W/HANDLE
- G.V. - GATE VALVE W/C.I. BOX & EXT. STEM W/OP'G NUT
- (A), (AA), (BA), ETC. - LINE PROFILE INDICATORS
- D.I.P. - DUCTILE IRON PIPE
- R.C.P. - REINFORCED CONCRETE PIPE
- P.V.C. - POLYVINYLCHLORIDE PIPE
- STL - STEEL PIPE
- —W— - PLANT WATER SUPPLY

RECORD DRAWING

THIS DRAWING HAS BEEN MODIFIED TO REFLECT CHANGES MADE DURING CONSTRUCTION BASED UPON INFORMATION AS MAY BE PROVIDED BY THE CONTRACTOR AND CONSTRUCTION OBSERVATION BY THE ENGINEER'S AUTHORIZED REPRESENTATIVE

BY 7/26/84 ENGINEER DATE

D.A.F. BLDG. & ALL WORK WITHIN SHADED AREA TO BE BID AS PART C OF CONTRACTS.

2/2/81

GEN. FOR PAVING DIKE

MARK	DATE	REVISION
1	7/4/80	

ENGINEER APP'D DATE 7/4/80 SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 8403 WILLIAM C. DUNN

DRAWN BY D. BAKER CHECKED BY APP'D BY

YARD PIPING PLAN

WASTEWATER TREATMENT FACILITIES

ORANGE WATER AND SEWER AUTHORITY

ORANGE COUNTY, NORTH CAROLINA

MOORE, GARDNER & ASSOCIATES, INC.

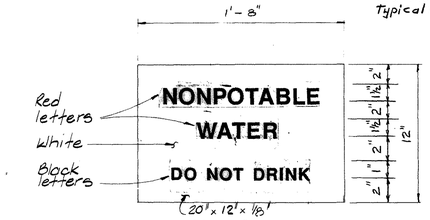
CONSULTING ENGINEERS

ASHEBORO • GREENSBORO • RALEIGH NORTH CAROLINA

SCALE 1" = 40' JOB NO. 500128 DRAWER NC SHEET 9 OF 210

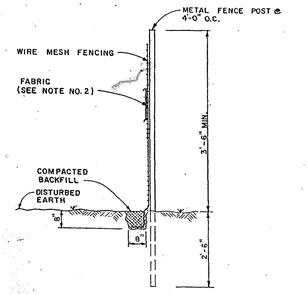
WWTP-1984-A

PIPING MODIFICATIONS TO CONVERT AERATION BASINS INTO NUTRIFIED SLUDGE PROCESS IN 1991



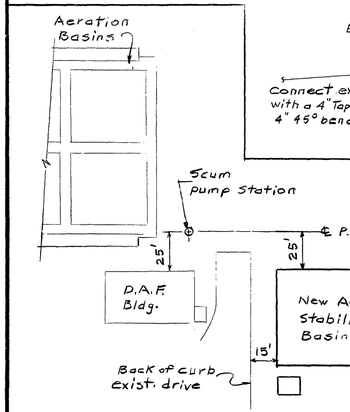
SIGN DETAIL (A 2,24) NTS

Note: Nonpotable water sign shall be placed at all hydrants & hose bibbs. See (B 2) for support

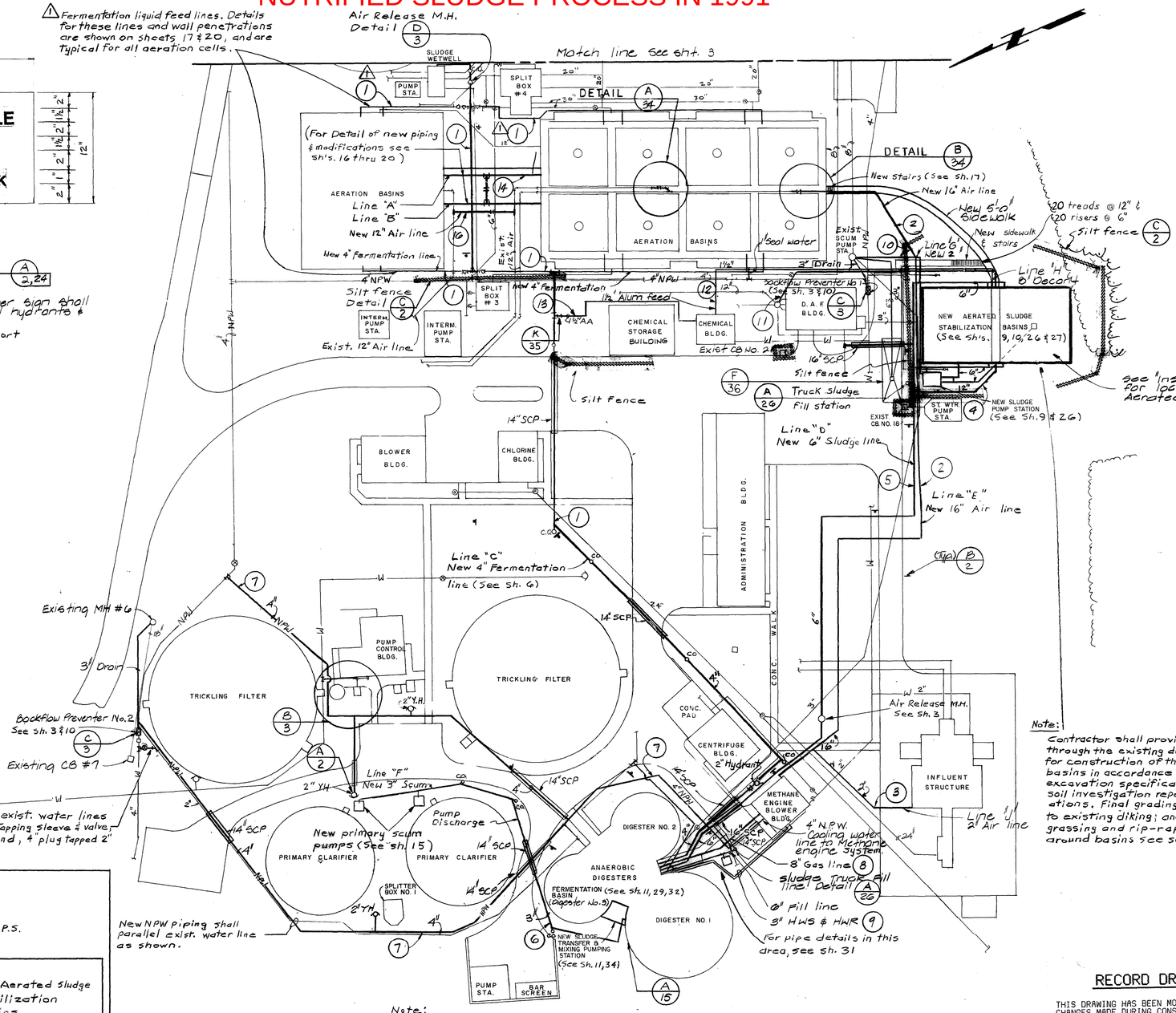


NOTES
1- FENCING TO BE PLACED AT THE EXTREME LIMIT OF AREA TO BE DISTURBED.
2- USE SYNTHETIC FILTER FABRIC IN LIEU OF BURLAP, WHEN SILT FENCE IS TO BE USED MORE THAN 45 DAYS.
3- REMOVE SEDIMENT DEPOSITS PRIOR TO REACHING 1/3 HEIGHT OF FENCE.

SILT FENCE DETAIL (C 2) N.T.S.



INSET No Scale

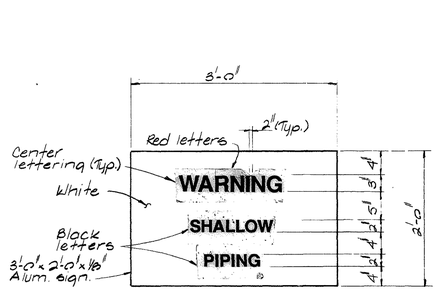


Note: Improvements under this project shown by heavy lines.

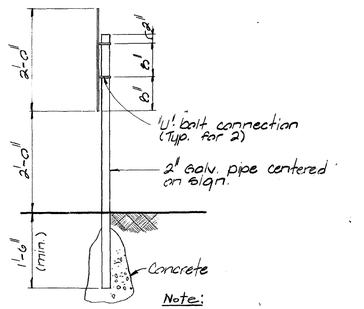
SITE AND PIPING PLAN (2) 1"=40'

NOTES

1. Where open cutting at pavement is required, contractor responsible shall ensure work is performed in a timely manner to minimize disruption of traffic. The plant operator must be notified 24 hours in advance prior to open cutting of pavement to designated areas. No two areas may be open cut at the same time. Contractor shall also provide devices such as detour signs, etc., to direct traffic through and around areas to be open cut.
2. Where piping larger than 3 inches in diameter is installed within 2 feet of the ground surface, contractor shall delineate these areas with permanent signs along pipe alignments as shown. The sign shall be in accordance with details shown on these drawings.
3. All underground piping and valves shall be installed in accordance with the drawings and specifications and placed in the areas designated on these drawings.
4. All exposed liquid carrying piping and valves 4 inches and smaller shall be heat traced and insulated. Locations for heat tracing and insulation shall be determined from drawings for Contract Section I - General Construction. The contractor for Contract Section II - Electrical shall provide suitable outlets and junction boxes for heat tracing.
5. The general contractor shall review all electrical drawings for locations of instrumentation and control devices furnished under Section 13 of the specifications.
6. TBM - chiseled square top southwest corner of aeration basin EL. 273.94.
7. New piping is designated by number (1). See Sh. 3 for new piping schedule.
8. Exist. water lines (PW) will be non-potable (NPW) in the future.



Note: Contractor shall provide excavation through the existing dike necessary for construction of the new sludge basins in accordance with the excavation specifications and the soil investigation report recommendations. Final grading shall conform to existing diking; and yard grading, grassing and rip-rap. (For grading around basins see sh. 3)



Note: To be provided at all locations indicated.

SIGN DETAIL (B 2) NTS

RECORD DRAWING

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BY W. M. Frazier ENGINEER 4-2-91 DATE

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP
2-14-90	Misc. revisions to as-built conditions	2	MBS		
12/15/88	Add note & fermentation line to other side of basins	1	JD	MF	MF

DESIGNED ALM
DETAILED JD/TNS
CHECKED RAM
APPROVED WPB
DATE 11/8/88

Black & Veatch Incorporated Consulting Engineers

PROJECT NO. 02915

WWTP IMPROVEMENTS
ORANGE WATER AND SEWER AUTHORITY
ORANGE COUNTY, NORTH CAROLINA

SITE AND PIPING PLAN

NORTH CAROLINA PROFESSIONAL SEAL 4879 ENGINEER WILLIAM MAX FRAZIER

SHEET 2 OF 57

WWTP - 1986A

B&V-C-2458-A