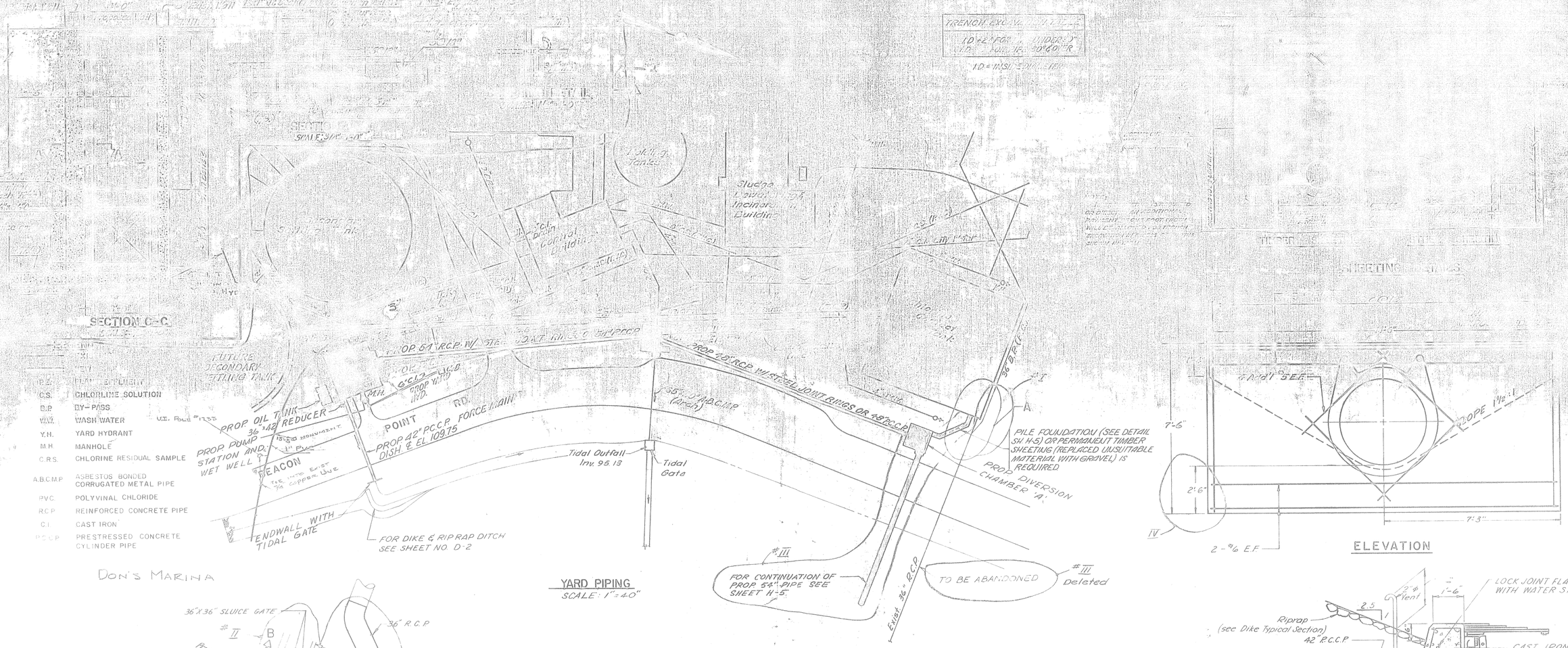
C.S.	CHLORINE SOLUTION	
B.P.	BY-PASS	
W.W.	WASH WATER	U.S. Route #1135
Y.H.	YARD HYDRANT	
M.H.	MANHOLE	
C.R.S.	CHLORINE RESIDUAL SAMPLE	
A.B.C.M.P.	ASBESTOS BONDED CORRUGATED METAL PIPE	
P.V.C.	POLYVINAL CHLORIDE	
R.C.P.	REINFORCED CONCRETE PIPE	
C.I.	CAST IRON	
P.C.C.P.	PRESTRESSED CONCRETE CYLINDER PIPE	

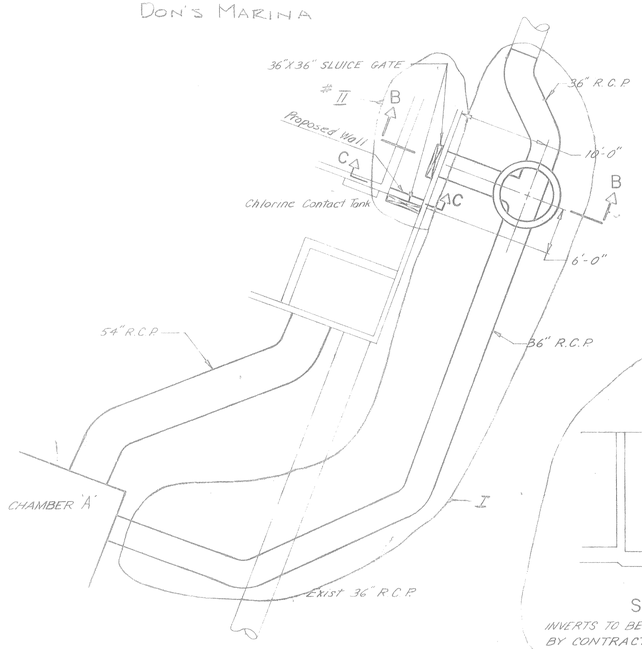
SECTION C-C


SCALE: 3/16" = 1'-0"
FUTURE SECONDARY SETTLING TANK
PROP. OIL TANK
PROP. PUMP STATION AND WET WELL
36"x42" REDUCER
15'-0" MONUMENT
1" PVC
BEACON
TIE INTO EXIST 3/4 COPPER LINE
PROP. 54" RCP W/ STEEL JOINT RINGS
PROP. 42" RCP
C.I. CATCH BASIN
PROP. M.H.
POINT RD.
PROP. 42" PCCP FORCE MAIN
35' - 24" ABCMP (Approx.)
PROP. 78" RCP W/ STEEL JOINT RINGS OR 48" RCCP
Tidal Outfall Inv. 95.13
Tidal Gate
ENDWALL WITH TIDAL GATE
FOR DIKE & RIP RAP DITCH SEE SHEET NO. D-2
Sludge Lagoons
Sludge Dewatering Building
Drain Control Building
Existing Tanks
#III
FOR CONTINUATION OF PROP. 54" PIPE SEE SHEET H-5
TO BE ABANDONED
#III
Deleted
Exist. 36" R.C.P.
PILE FOUNDATION (SEE DETAIL SH H-5) OR PERMANENT TIMBER SHEETING (REPLACED UNSUITABLE MATERIAL WITH GRAVEL) IS REQUIRED
PROP. DIVERSION CHAMBER 'A'
A
A-I
36" BRICK
SHEETING
TIMBER
EARTH SEAL
SLOPE 1½":1
7'-6"
2'-6"
7'-3"
IV
2 - #6 E.F.

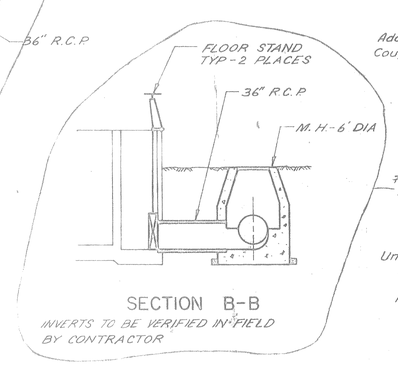
YARD PIPING
SCALE: 1" = 40'

ELEVATION

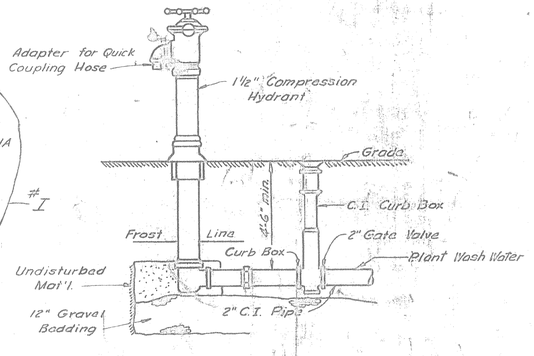
DON'S MARINA



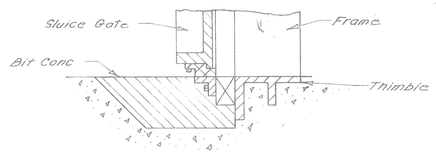
DETAIL A



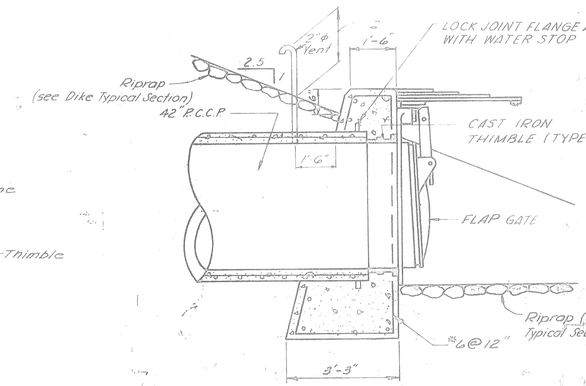
SECTION B-B
INVERTS TO BE VERIFIED IN FIELD BY CONTRACTOR



FLUSHING HYDRANT DETAIL
NOT TO SCALE



SECTION
FLUSH BOTTOM SLUICE GATE
NOT TO SCALE



SECTION
ENDWALL WITH TIDAL GATE OUTFALL
NOT TO SCALE

IV	5/19/75	A.J.J.	F.S.C.	Increased Foundation Depth 6"
I	5/19/75	A.J.J.	F.S.C.	Deleted By Pass System
II	5/19/75	A.J.J.	F.S.C.	Deleted 2-36"x36" Sluice Gates
III	5/19/75	A.J.J.	F.S.C.	Proposed Relocation of Chamber 'A' and Piping
REVISION		MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: R. Jepson
DRAWN BY: V. Fiume
CHECKED BY: F. Chuang
SCALE: As Noted
CONTRACT NO. 12
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG. ____ DATE ____

TOWN OF STRATFORD, CONNECTICUT

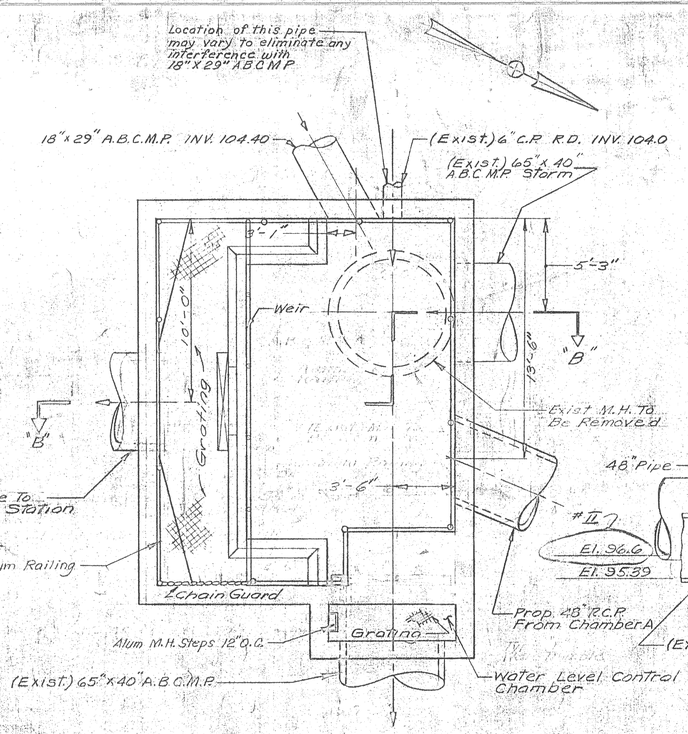
HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

YARD PIPING — ENDWALL

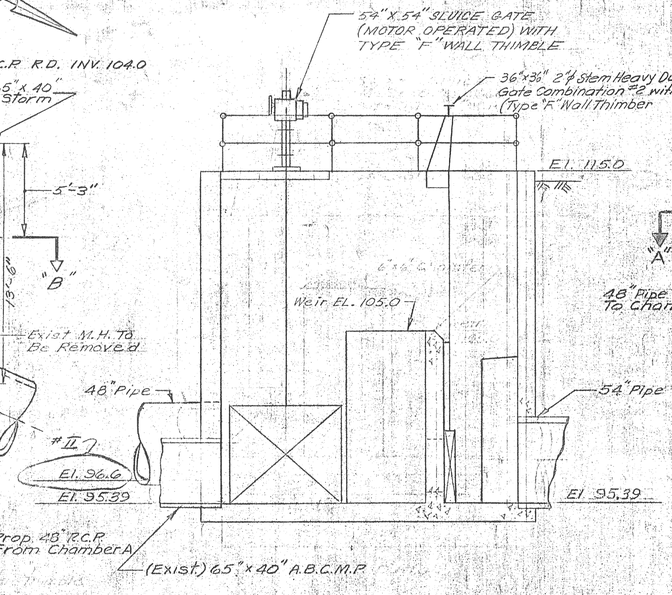
CE MAGUIRE, INC.
ARCHITECTS ENGINEERS PLANNERS

H-1

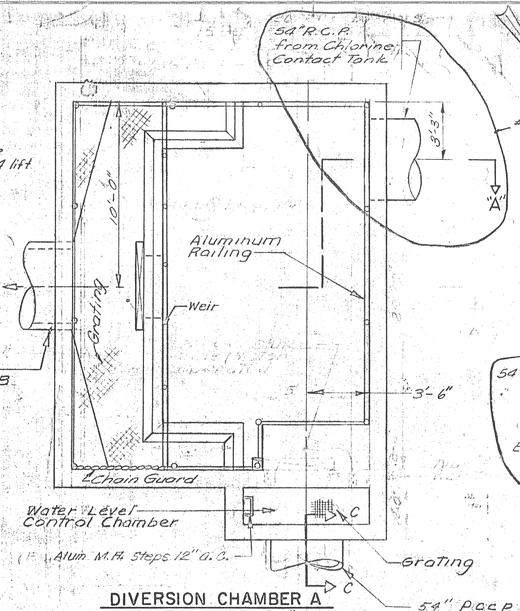
The Blattboard, Inc.



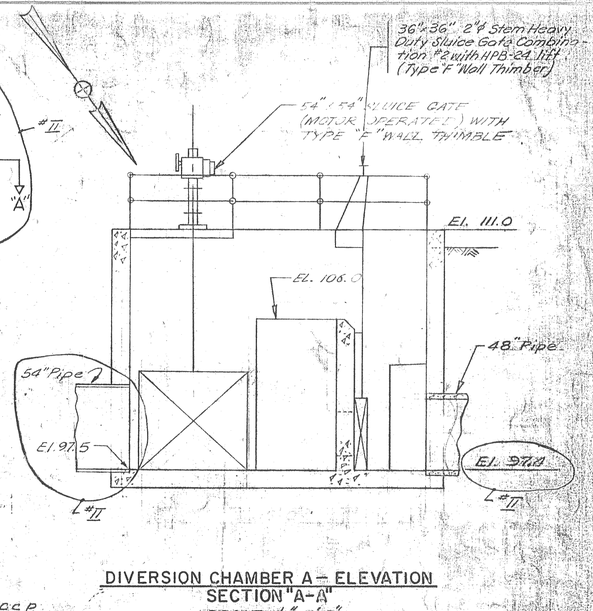
DIVERSION CHAMBER B
SCALE: 1/4"=1'-0"



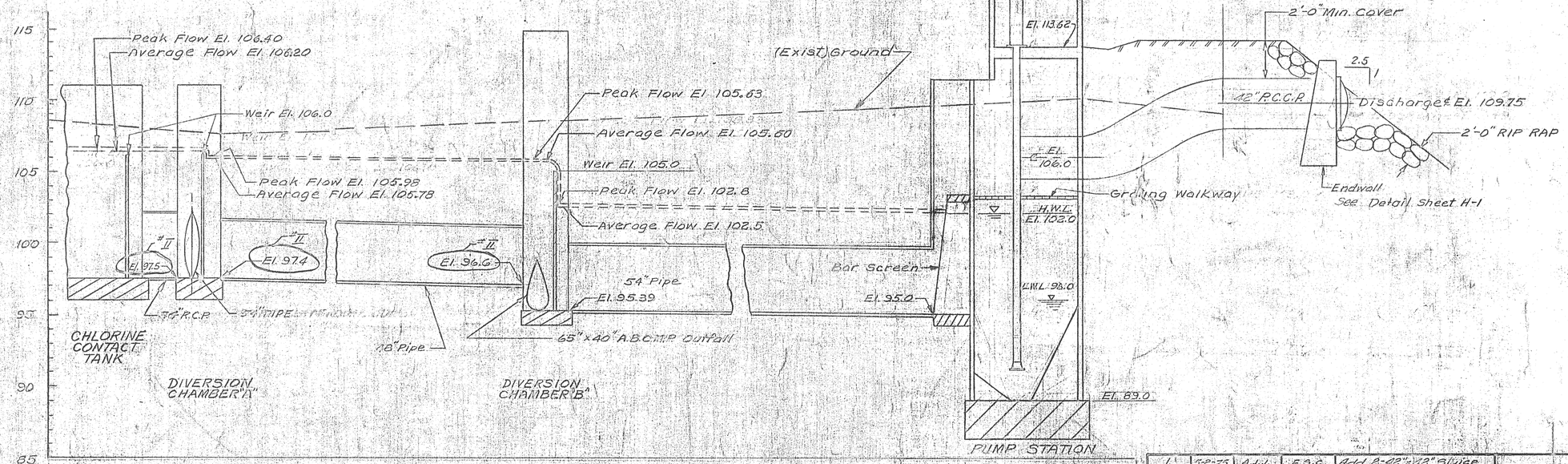
DIVERSION CHAMBER B– ELEVATION
SECTION "B-B"
SCALE: 1/4"=1'-0"



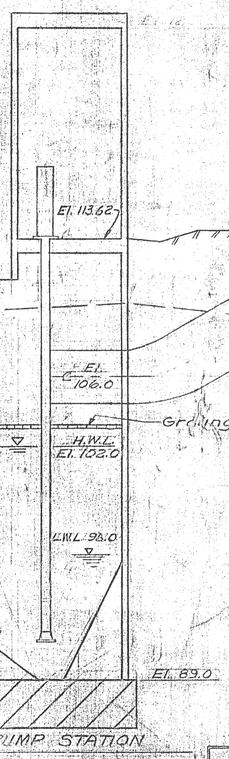
DIVERSION CHAMBER A
SCALE: 1/4"=1'-0"

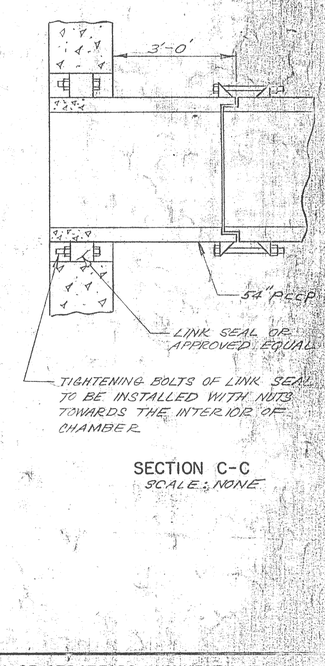


DIVERSION CHAMBER A– ELEVATION
SECTION "A-A"
SCALE: 1/4"=1'-0"



HYDRAULIC PROFILE
VERT: 1"=4'-0"
HORIZ: NONE





SECTION C-C
SCALE: NONE

① FOR CONTINUATION OF PIPING PERTAINING TO CHAMBERS "A" & "B" SEE DWG. H-1 OR H-5

REVISION	MADE BY	CHECKED BY	DESCRIPTION
I 5-2-75	A.J.J.	F.S.C.	Add 2-42"x72" Sluice Gates, Railing & Grating
II 5-2-75	A.J.J.	F.S.C.	New Location of S. Main Trunk

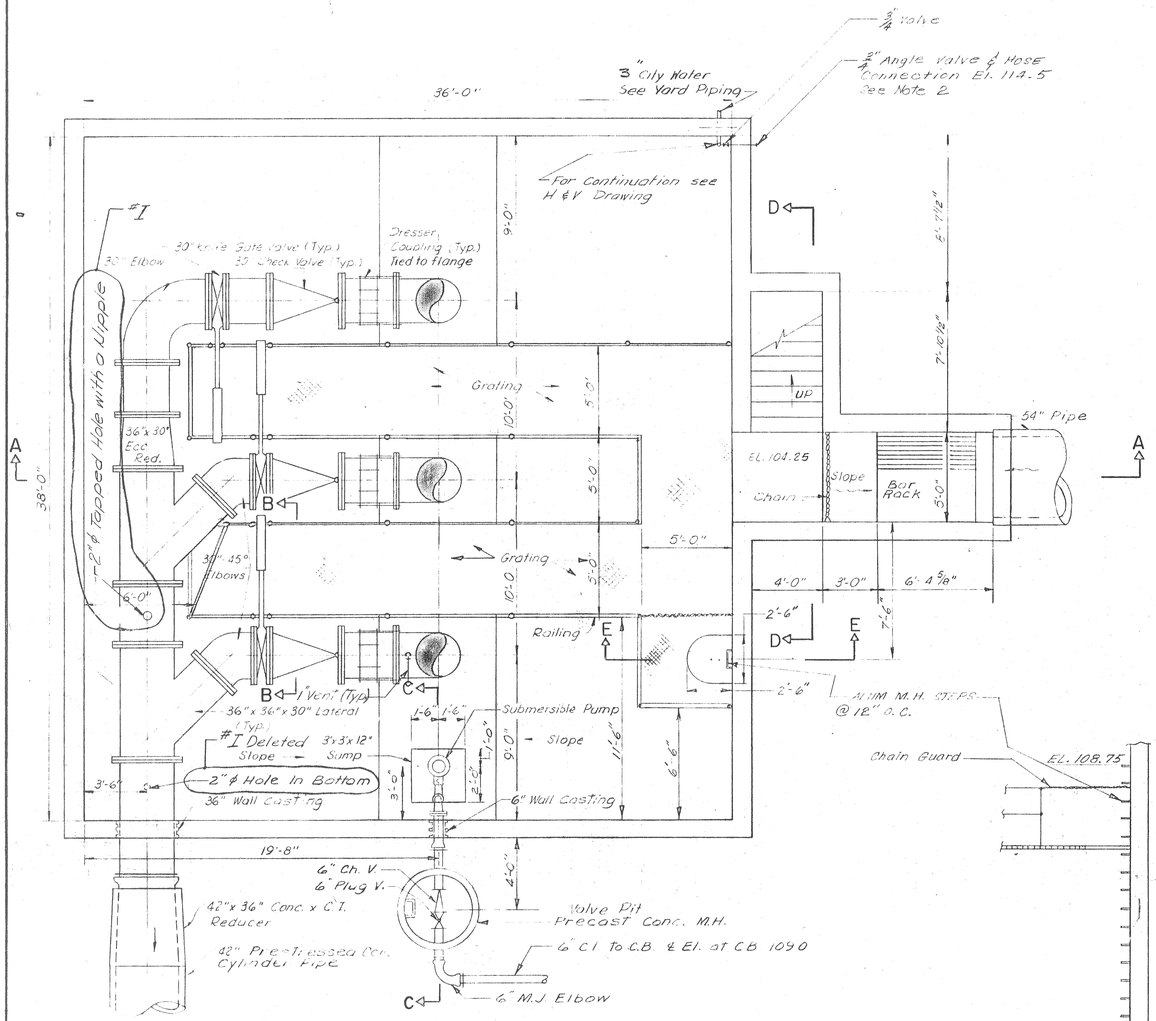
DESIGNED BY: R.I. Jopson
DRAWN BY: F. Jania
CHECKED BY: F. Chuang
SCALE: As Shown
CONTRACT NO. 7.2
C.P.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG. ____ DATE ____

TOWN OF STRATFORD, CONNECTICUT
HURRICANE PROTECTION
FOR
WATER POLLUTION CONTROL PLANT
HYDRAULIC PROFILE & DIVERSION CHAMBER DETAILS

GE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

H-2

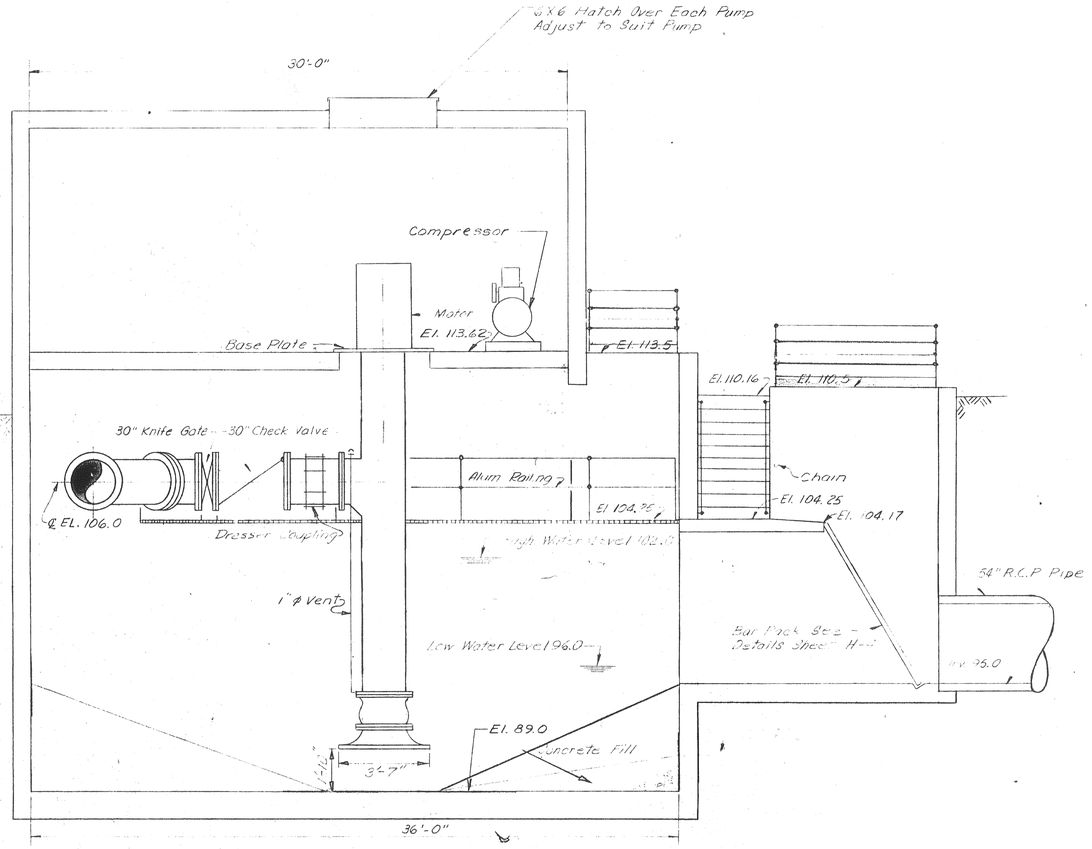
This Drawing is ... Inc.



PLAN - EL. 108.00

NOTE:
1 — ALL PIPES ARE TO BE SUPPORTED OR HUNG AS PER MANUFACTURERS RECOMMENDATIONS
2 — PROVIDE 100' HOSE FOR WET WELL WASH

SECTION E-E



SECTION A-A

I	5-19-75	A.J.J.	F.S.C.	Change 2" ϕ Hole in the Bottom
REVISION		MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: R.I. Jepson
DRAWN BY: V. Fiume
CHECKED BY: F. Chuang
SCALE: ¼" = 1'-0"
CONTRACT NO. 12
C.E.M. NO. 1912.
APPROVED FOR C.E.M.
REG. PROF. ENG. ____ DATE ____

TOWN OF STRATFORD, CONNECTICUT

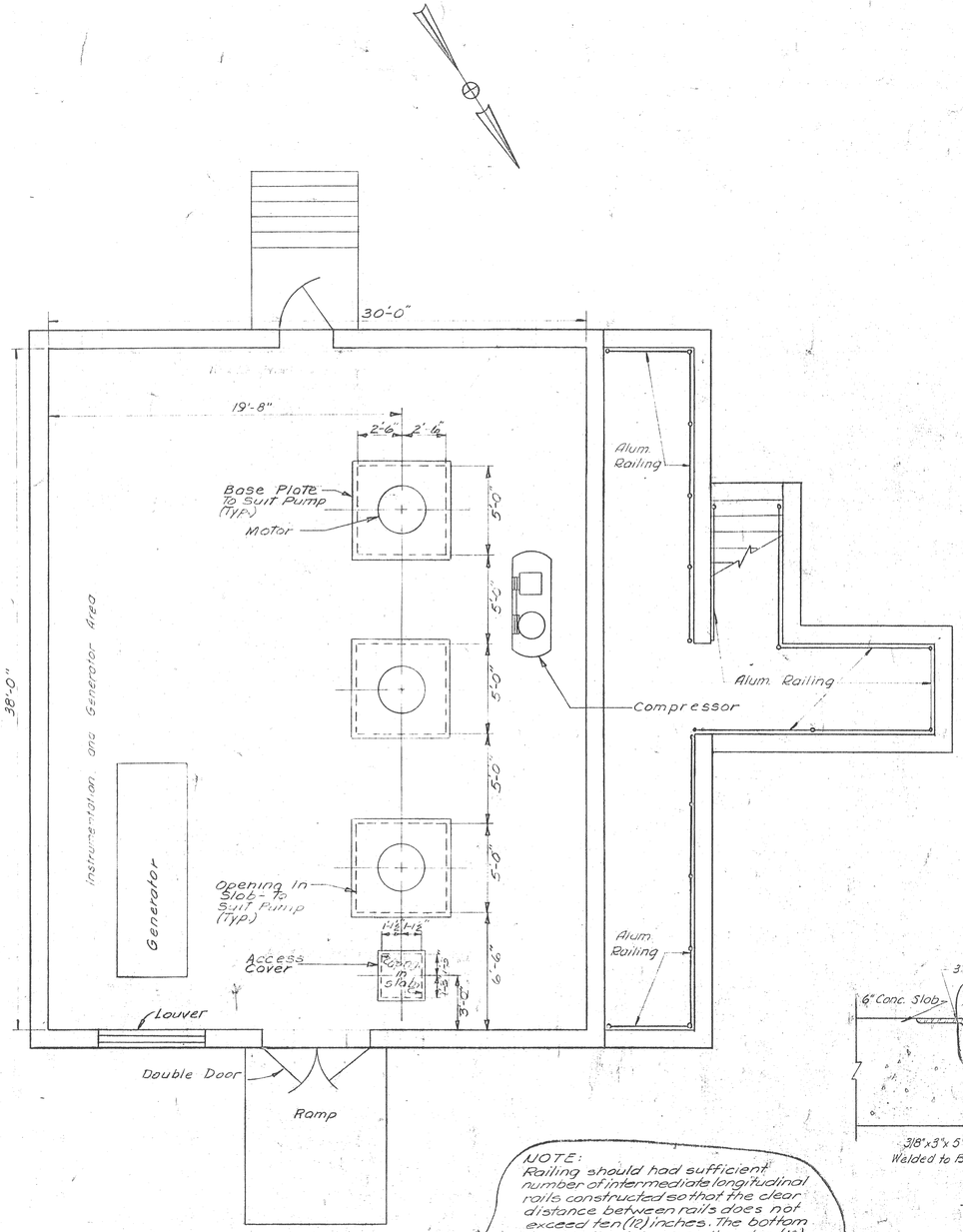
HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

PLAN AND SECTION

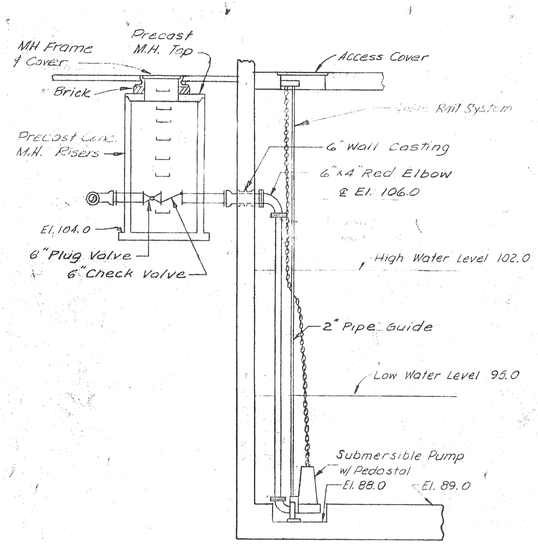
CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

H-3

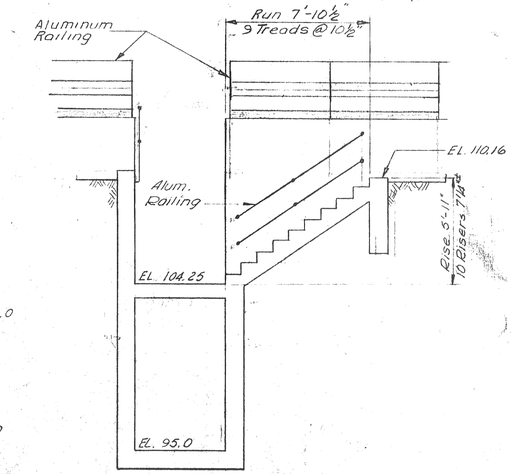
The Draftboard, Inc.



PLAN — EL. 113.62

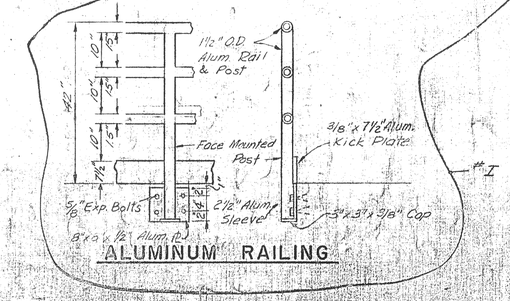


SECTION C-C

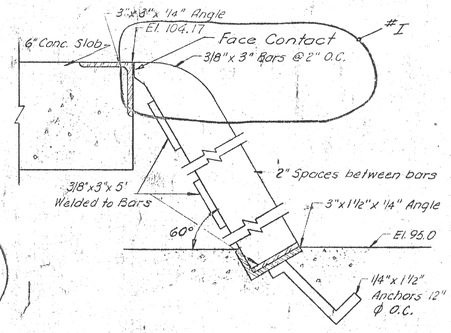


SECTION D-D

NOTE:
Railing should had sufficient number of intermediate longitudinal rails constructed so that the clear distance between rails does not exceed ten (10) inches. The bottom rail shall not be more than ten (10") inches from the tread nosing.

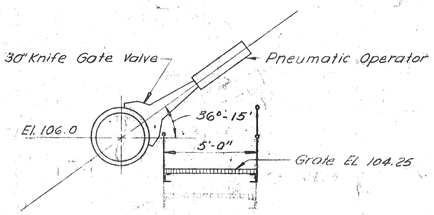


ALUMINUM RAILING



REMOVABLE BAR RACK DETAILS

NOTES:
1. 1/4" weld at all exposed edges and sides.
2. All bars and angles to be aluminum.
3. Provide bar rack rake. Tooth spacing to match bars with 1" Ø pipe handle. Rake to be aluminum.



SECTION B-B

REVISION	MADE BY	CHECKED BY	DESCRIPTION
I	5-19-75	A.J.J.	F.S.C.	Aluminu Railing & Bar Rack Details

DESIGNED BY: R.I. Jepsen
DRAWN BY: V. Fiume
CHECKED BY: F. Chiang
SCALE: 1/4" = 1'-0"
CONTRACT NO. 72
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG.
DATE

TOWN OF STRATFORD, CONNECTICUT

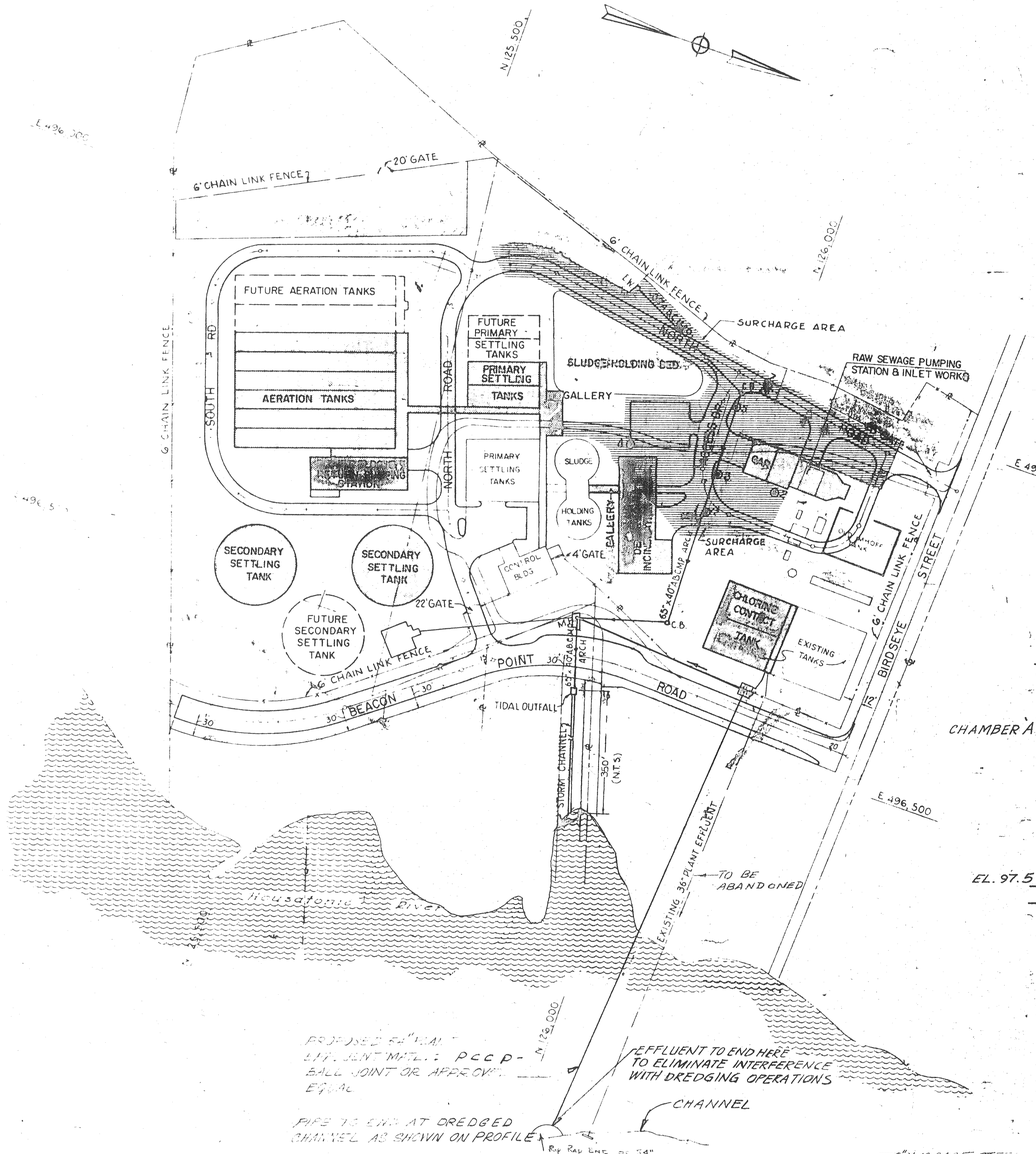
HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

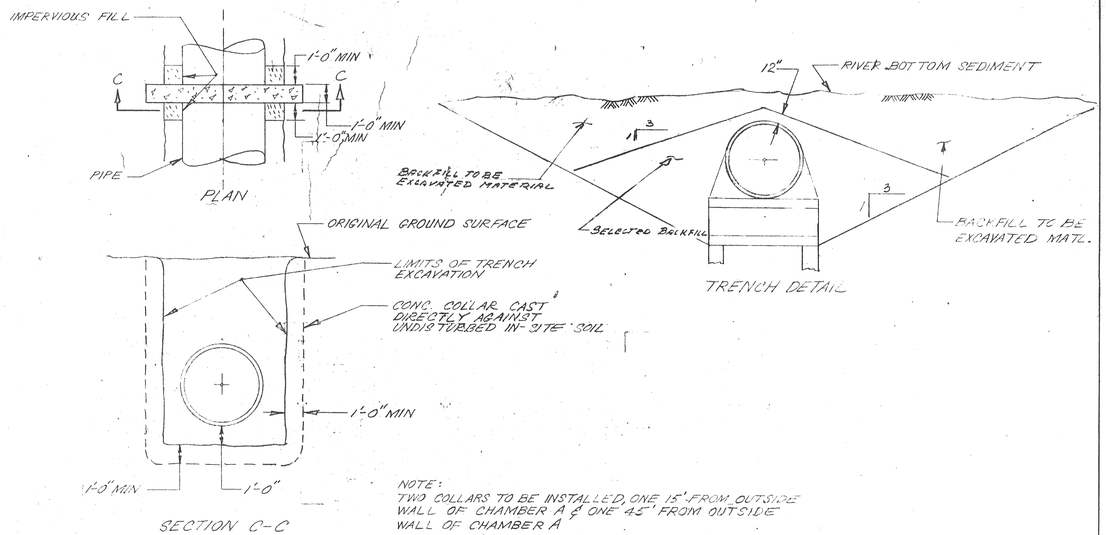
PLAN AND SECTIONS

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

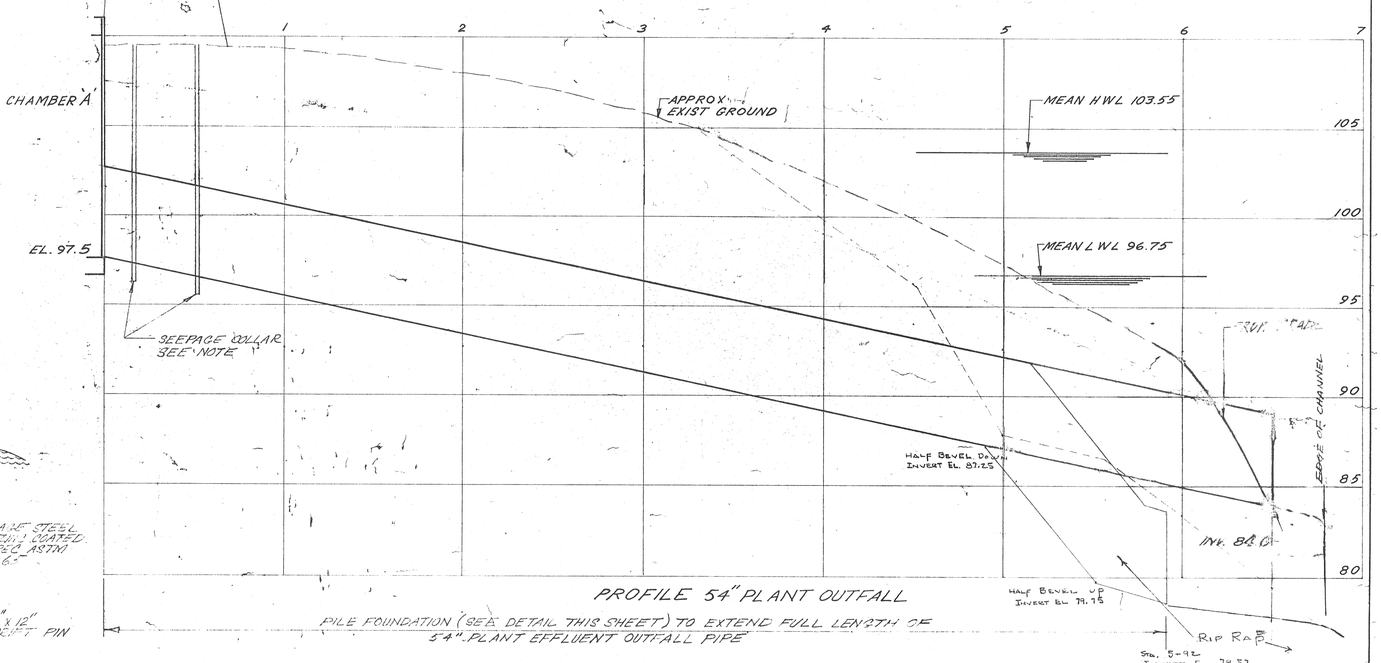
H-4

The Drafttboard, Inc.



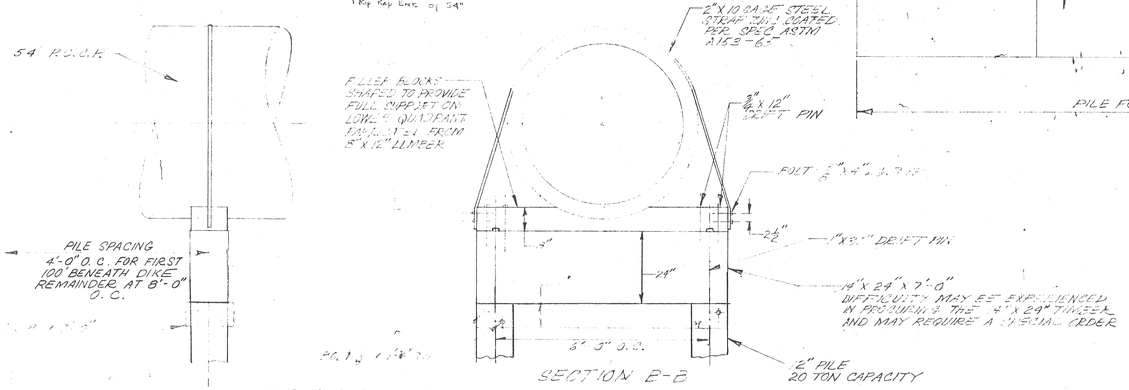


DETAIL - SEEPAGE COLLAR 54" OUTFALL



PROFILE 54" PLANT OUTFALL

PILE FOUNDATION (SEE DETAIL THIS SHEET) TO EXTEND FULL LENGTH OF 54". PLANT EFFLUENT OUTFALL PIPE



I	5-19-75	A.J.J.	F.S.C.	Outfall Invert Changed
REVISION		MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: F. Chuang
DRAWN BY: P. Clark
CHECKED BY: F. Chuang
SCALE 1" = 100'
CONTRACT NO. 12
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG. ____ DATE ____

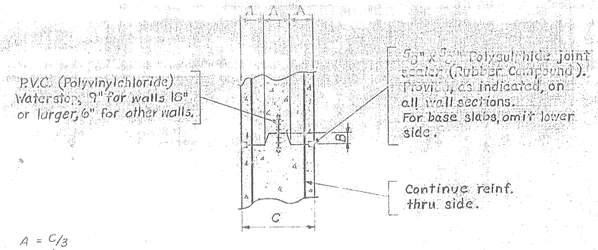
TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

PROPOSED 54-INCH PLANT EFFLUENT LOCATION PLAN

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

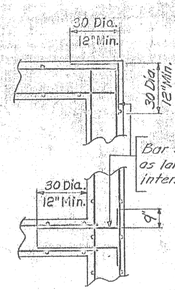
H-5



A = C/3
B = A/2
Waterstops in all construction joints as shown on the plans.

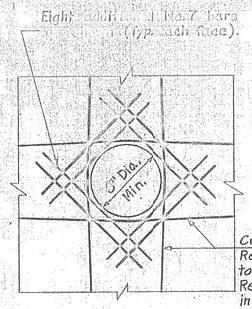
TYPICAL CONSTRUCTION JOINT DETAIL

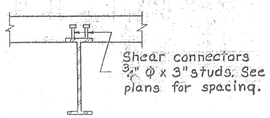
NOT TO SCALE
HORIZONTAL OR VERTICAL



TYPICAL CORNER REINFORCING DETAILS

NOT TO SCALE



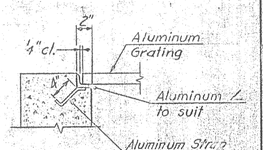


TYPICAL SHEAR CONNECTOR

NOT TO SCALE

TYPICAL REINFORCING AROUND PIPE OPENING

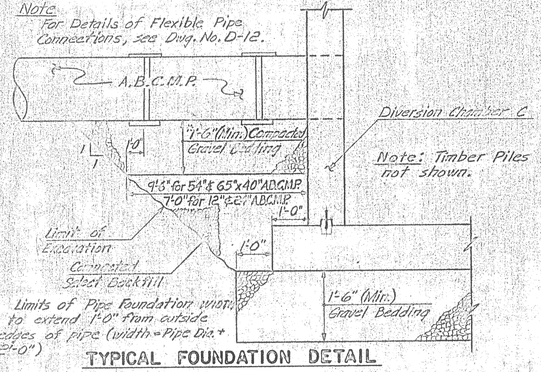
NOT TO SCALE



ALUMINUM GRATING DETAIL

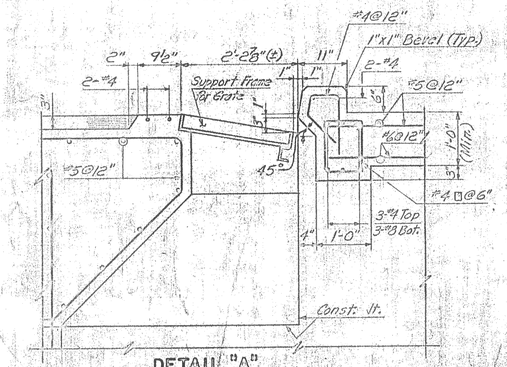
NOT TO SCALE

Note
For Details of Flexible Pipe Connections, see Dwg. No. D-12.



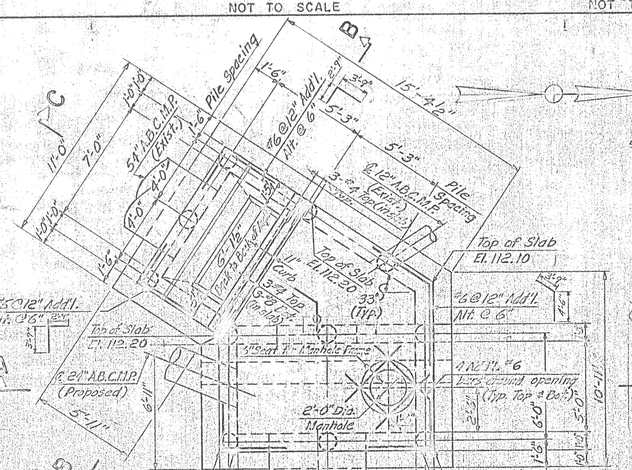
TYPICAL FOUNDATION DETAIL

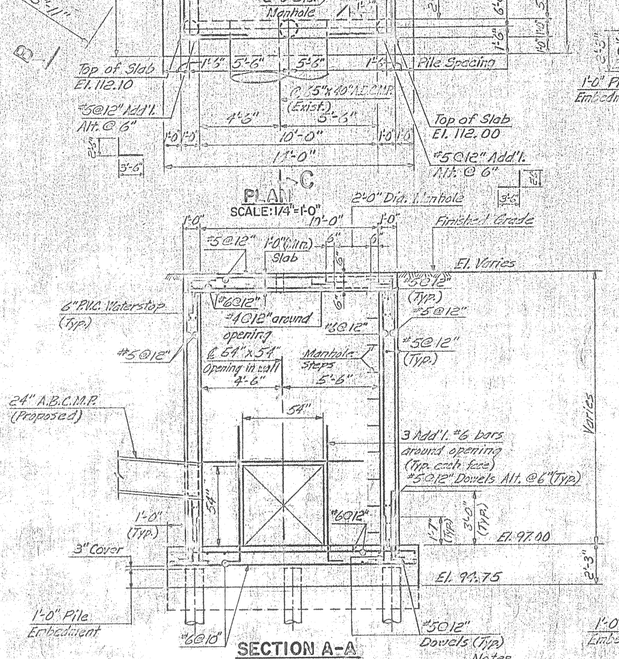
NOT TO SCALE

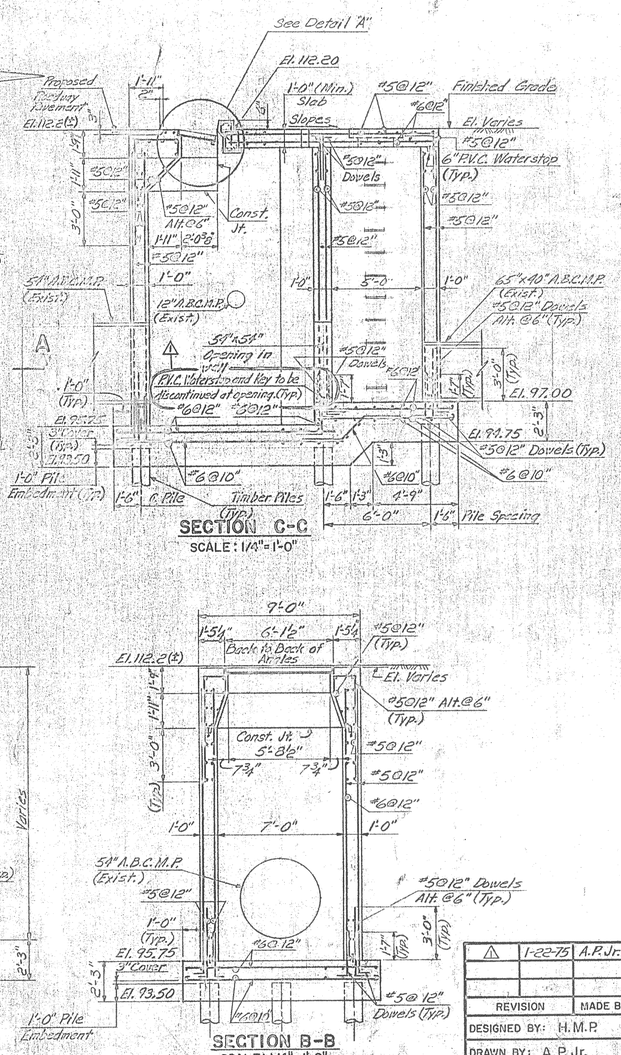


DETAIL "A"

SCALE: 3/1½"=1'-0"







Notes
1. All piles to be Timber Piles (Capacity 22 Tons). Piles shall be of Douglas Fir or Southern Yellow Pine conforming to the requirements of A.S.T.M. Designation D25-70. All timber piles shall be preservative treated in accordance with the requirements of "American Wood Preservers Assoc." Standard C1-67 (See Specifications).
2. For sequence of construction, see Specifications.
3. For Details of grating and support frame, see Dwg. No. D-9.

DIVERSION CHAMBER C

GENERAL NOTES

Design Live Loads

Snow - 30 P.S.F.
Machinery and Heavy Equipment - 150 P.S.F.
Stairs - 100 P.S.F.
Vehicular - H20 (Diversion Chamber C)

Foundations

Except as noted on the plans, all base slabs and footings shall be placed on natural soil prepared in accordance with the applicable requirements of the specifications.

Cast in Place Concrete

1. Concrete design is based on the A.C.I. standard building code requirements for concrete (A.C.I. 318-71).
2. All concrete in walls, beams and slabs shall have a minimum compressive strength of 3,000 P.S.I. at the end of 28 days.
3. All reinforcing steel shall be A.S.T.M. A615 grade 40.
4. All reinforcing bars shall be lapped 30 bar dia. (min. 1'-0"), except as noted.
5. Except as noted on the plans, concrete protection for reinforcing bars shall be as follows:
   A. 3" for foundation slabs exposed to water or sewage and cast against ground or concrete leveling pad.
   B. 2" for slabs and walls exposed to ground, weather, sewage or water. 1½" for #5 bars or smaller.
   C. ¾" for slabs and walls not exposed to ground, weather, sewage or water.

Structural Steel

Except as noted, all structural steel shall be A.S.T.M. A36 and shall conform to the A.I.S.C. specifications for the design, fabrication and erection of structural steel for buildings.

Steel Joists

Steel joists shall be L.H. series (as shown) and shall comply with the latest S.J.I. specifications.

Steel Roof Deck

Steel roof deck shall be 1½" with the ribs not more than 6" O.C. and shall be continuous for a minimum of three spans, unless otherwise noted. The deck shall be of sufficient gauge to carry a live load of 30 P.S.F. and a dead load of 18 P.S.F. with a maximum live load deflection of 1/240th of the span.

Miscellaneous

1. Concrete masonry reinforcement shall be installed in the first and second courses and immediately above lintels and above sills 8" apart and 16" elsewhere.
2. Fill concrete masonry with concrete - 2 courses under beams and slab supports, 3 courses under steel joists.
3. Below grade chambers and pumping station have been designed to resist hydrostatic uplift based upon total completions of these structures including placement of all backfill. The contractor shall be responsible for maintaining groundwater levels below lowest required excavation until satisfactory completion of required construction. See boring logs and observation well tables for groundwater levels.

Other Drawings

Structural drawings shall be used in conjunction with equipment, architectural, heating and ventilation, plumbing and electrical drawings. These drawings shall be referred to for sizes and locations of openings, vents, pipes, inserts boxes and hangers.

Aluminum Grating

1. Structural Aluminum in gratings and supporting members shall be of aluminum alloy 6061-T6 unless otherwise noted in the contract specifications. The gratings shall be able to support a load of 200 P.S.F.
2. Allowable stresses, design rules and fabrication procedures for Structural Aluminum shall be in accordance with the A.S.C.E. "Suggested Specifications for Structures of Aluminum Alloys 6061-T6 and 6062-T6."

△	1-22-75	A.P.Jr.	G.S.W.	Note re Waterstop in "Section C-C"
REVISION	MADE BY	CHECKED BY	DESCRIPTION	

DESIGNED BY: H.M.P
DRAWN BY: A.P.Jr.
CHECKED BY: G.S.W.
CONTRACT NO. 12
SCALE: AS SHOWN
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG.
10-30-73
DATE

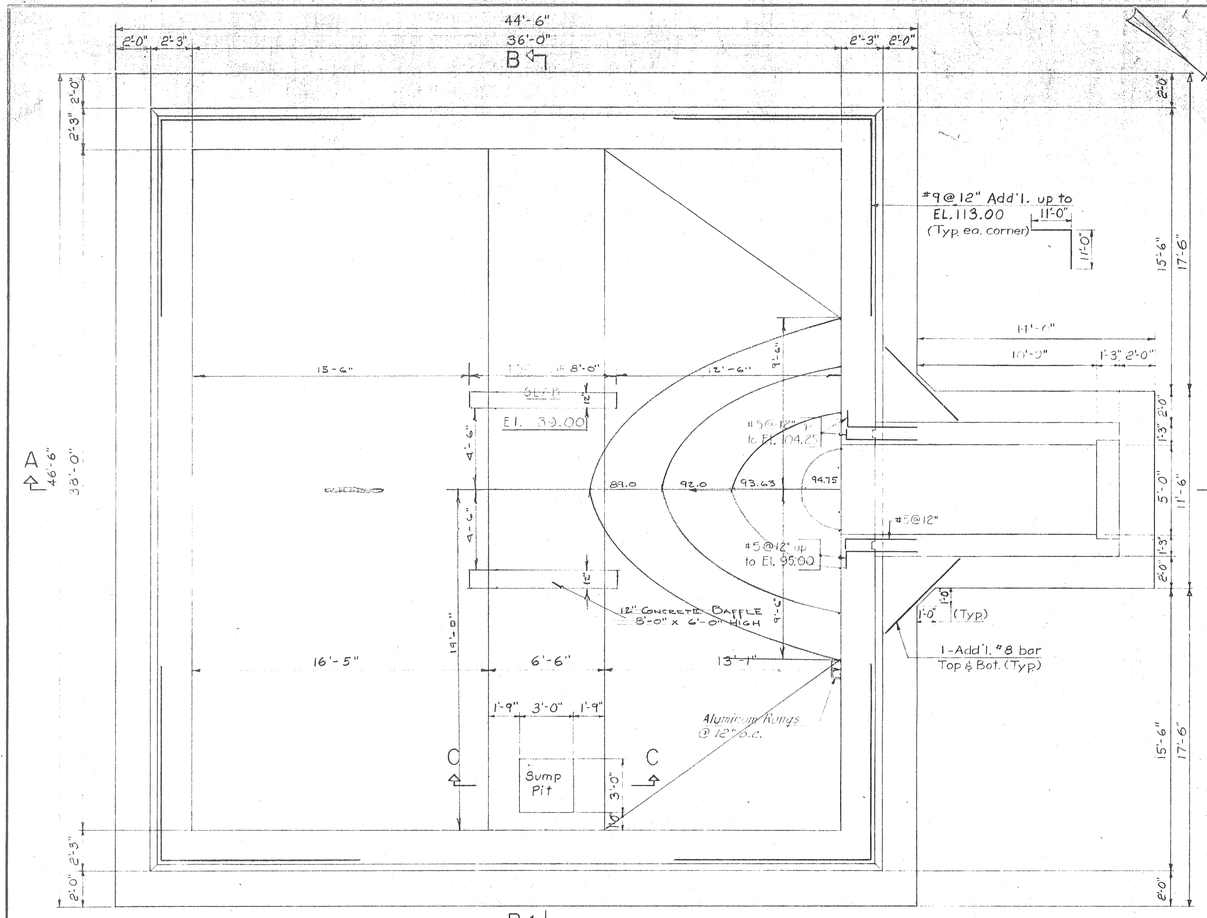
TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT
STRUCTURAL
DIVERSION CHAMBER C & TYPICAL DETAILS

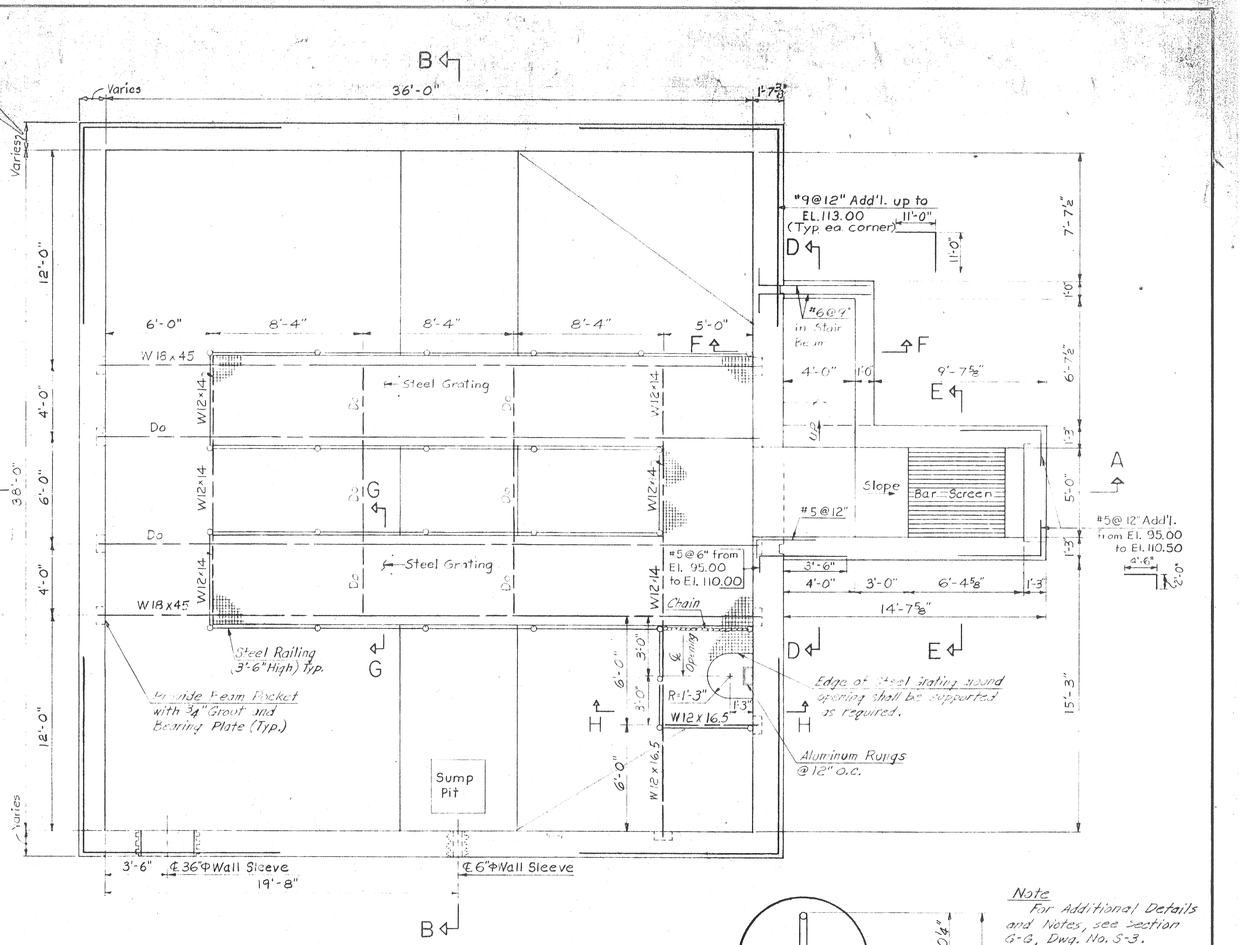
CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

S-1

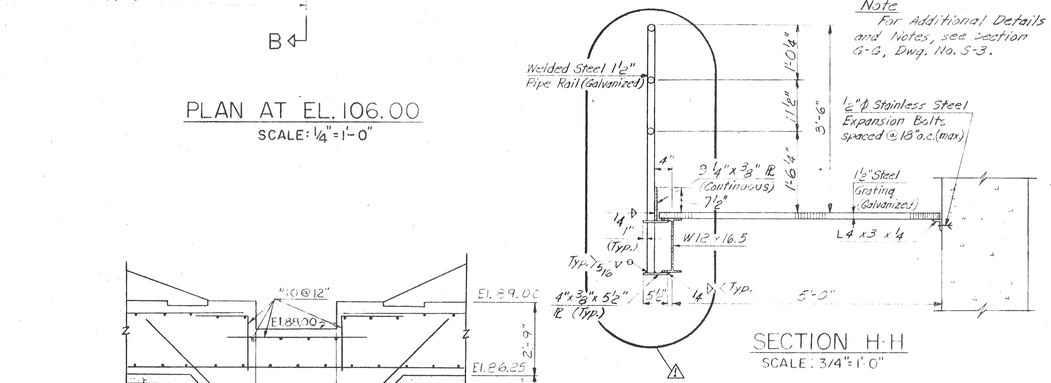
The Drafting Card, Inc.



B
WET WELL PLAN
SCALE: 1/4" = 1'-0"

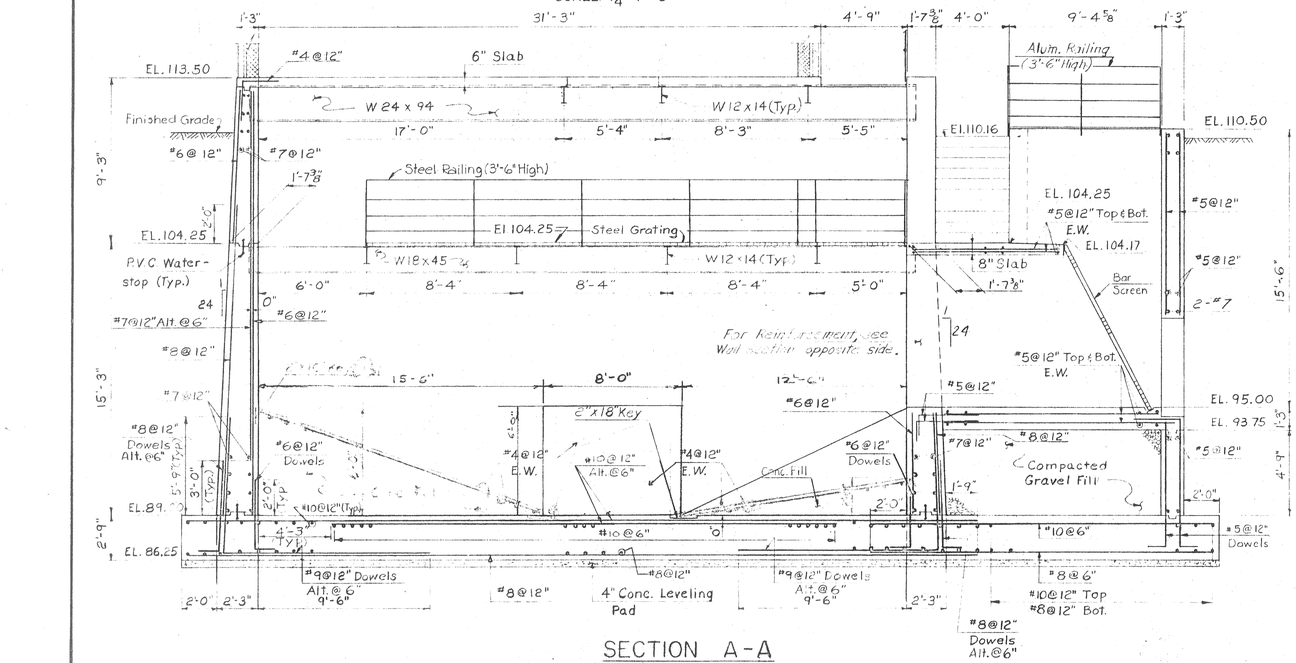


PLAN AT EL. 106.00
SCALE: 1/4" = 1'-0"



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

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



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

Note
For Additional Details and Notes, see Section G-G, Dwg. No. S-3.

NOTES
1. For General Notes and Typical Details, see Dwg No. S-1.
2. Work this Drawing with Dwgs No. S-3 & S-4.
3. Maximum Design Foundation Pressure = 3.0 K.S.F.

1	6-28-75	G.J.Z.	G.S.W.	Railing revised
REVISION		MADE BY	CHECKED BY	DESCRIPTION

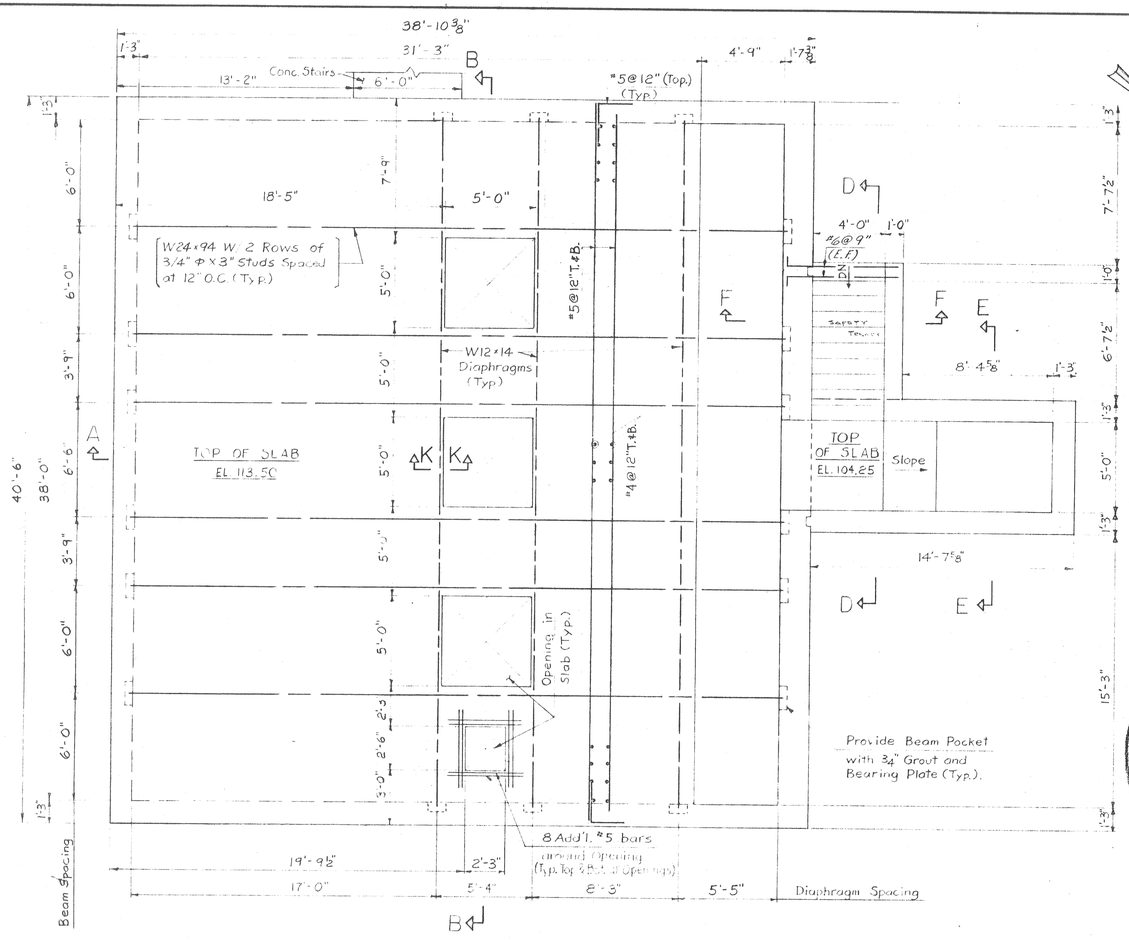
DESIGNED BY: H.M.P.
DRAWN BY: A.P. Jr.
CHECKED BY: G.S.W.
SCALE: AS SHOWN
CONTRACT NO. 12
C.E.M. NO. 1912
APPROVED FOR C.E.M.
Joseph A. Gouveia, REG. PROF. ENG.
10-3-73, DATE

TOWN OF STRATFORD, CONNECTICUT
HURRICANE PROTECTION
FOR
WATER POLLUTION CONTROL PLANT
STRUCTURAL
PUMP STATION.

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

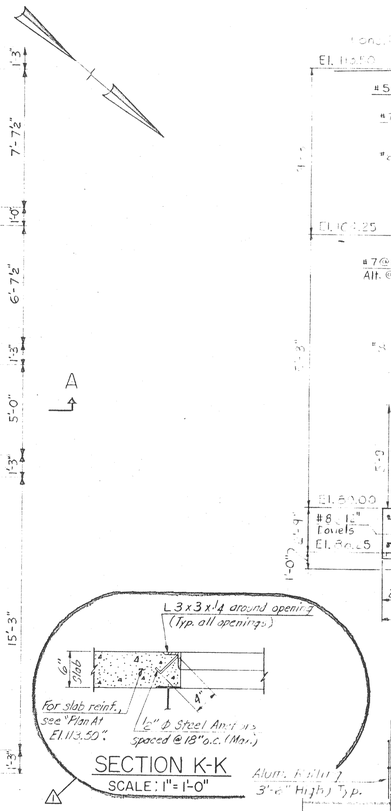
S-2

The Draftboard, Inc.



PLAN AT EL. 113.50

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

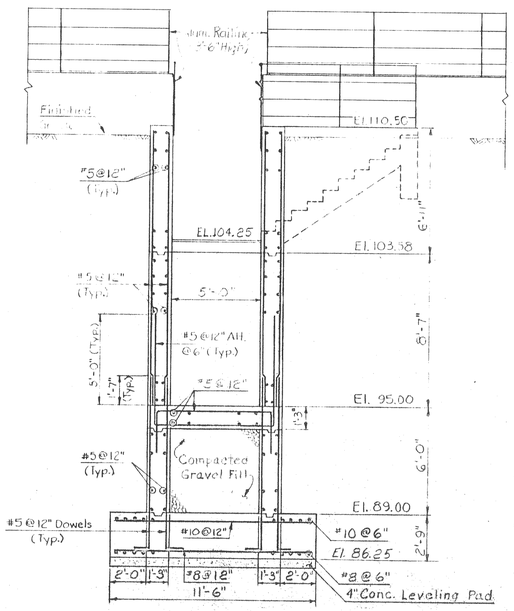


SECTION K-K

SCALE: 1"= 1'-0"

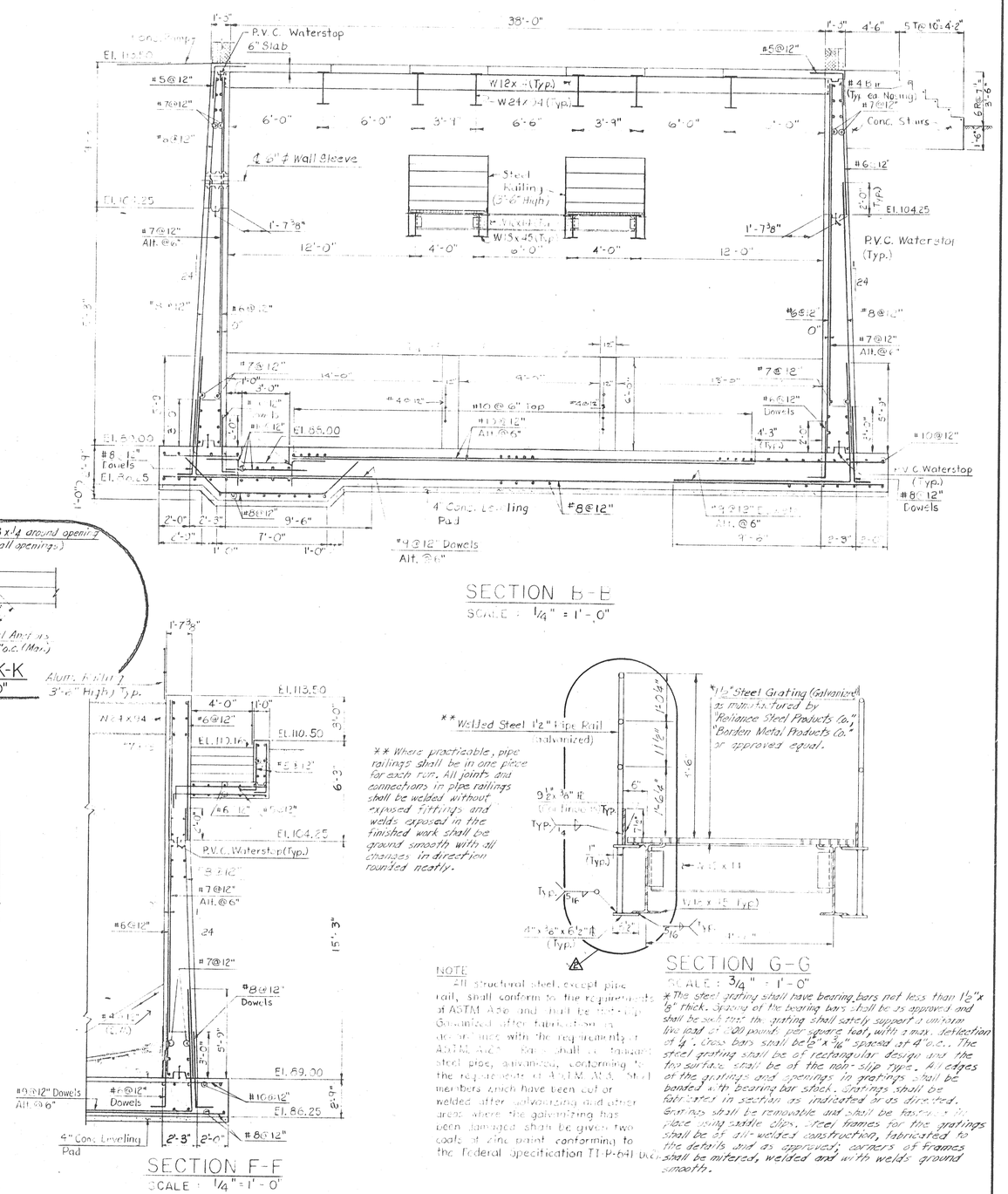
SECTION D-D

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



SECTION E-E

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



SECTION B-B

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

SECTION F-F

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

SECTION G-G

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

** Where practicable, pipe railings shall be in one piece for each run. All joints and connections in pipe railings shall be welded without exposed fittings and welds exposed in the finished work shall be ground smooth with all crevices in direction rounded neatly.

NOTE

All structural steel, except pipe rail, shall conform to the requirements of A.S.T.M. A36 and shall be hot-dip Galvanized after fabrication in accordance with the requirements of A.S.T.M. A123. Rail shall be Galvanized steel pipe, Galvanized, conforming to the requirements of A.S.T.M. A120. Steel members which have been cut or welded after galvanizing and other areas where the galvanizing has been damaged shall be given two coats of zinc paint conforming to the Federal Specification TT-P-641 (Ty.).

* The steel grating shall have bearing bars not less than 1 1/2" x 3/16" thick. Spacing of the bearing bars shall be as approved and shall be such that the grating shall safely support a uniform live load of 100 pounds per square foot, with a max. deflection of 1/4". Cross bars shall be 3/16" x 3/4" spaced at 4" o.c.. The steel grating shall be of rectangular design and the top surface shall be of the non-slip type. All edges of the gratings and openings in gratings shall be banded with bearing bar stock. Gratings shall be fabricated in section as indicated or as directed. Gratings shall be removable and shall be fastened in place using saddle clips. Steel frames for the gratings shall be of all-welded construction, fabricated to the details and as approved; corners of frames shall be mitered, welded and with welds ground smooth.

NOTES

1. For General Notes and Typical Details, see Dwg. No. S-1.
2. Work this Drawing with Dwgs. No. S-2 & S-4.

1	1-23-75	A.P.Jr.	G.S.W.	"Section K-K" added.
2	6-28-75	G.J.Z.	G.S.W.	Railing revised
REVISION		MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: H.M.P.	SCALE
DRAWN BY: A.P.Jr.	AS SHOWN
CHECKED BY: G.S.W.	
CONTRACT NO. 12	C.E.M. NO. 1912
APPROVED FOR C.E.M.	
Joseph A. Yamour (REG. PROF. ENG.)	10-30-73 (DATE)

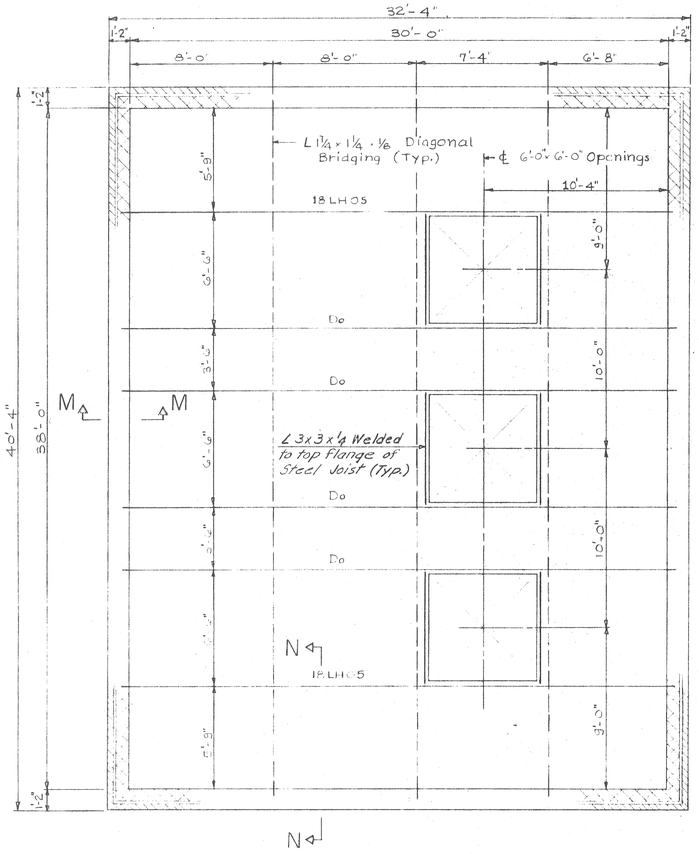
TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION
FOR
WATER POLLUTION CONTROL PLANT
STRUCTURAL
PUMP STATION

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

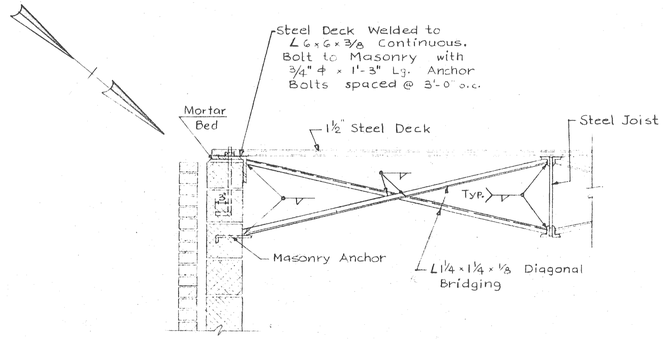
S-3

The Draftboard, Inc.



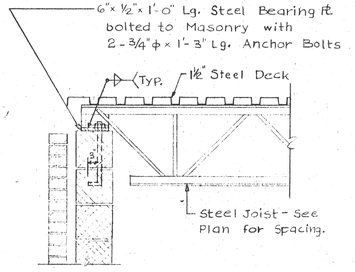
PLAN - ROOF

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



SECTION N-N

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



SECTION M-M

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

Note

All connections made to the steel joists shall be approved by the Engineer.

NOTES

1. For General Notes and Typical Details, see Dwg. No. S-1.
2. Work this Drawing with Dwgs. No. S-2 & S-3.

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: H.M.P.

DRAWN BY: E.P.F.

CHECKED BY: G.S.W.

SCALE: AS SHOWN

CONTRACT NO. 12

C.E.M. NO. 1912

APPROVED FOR C.E.M.

Joseph O Gomes 10-30-73

REG. PROF. ENG. DATE

TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

STRUCTURAL

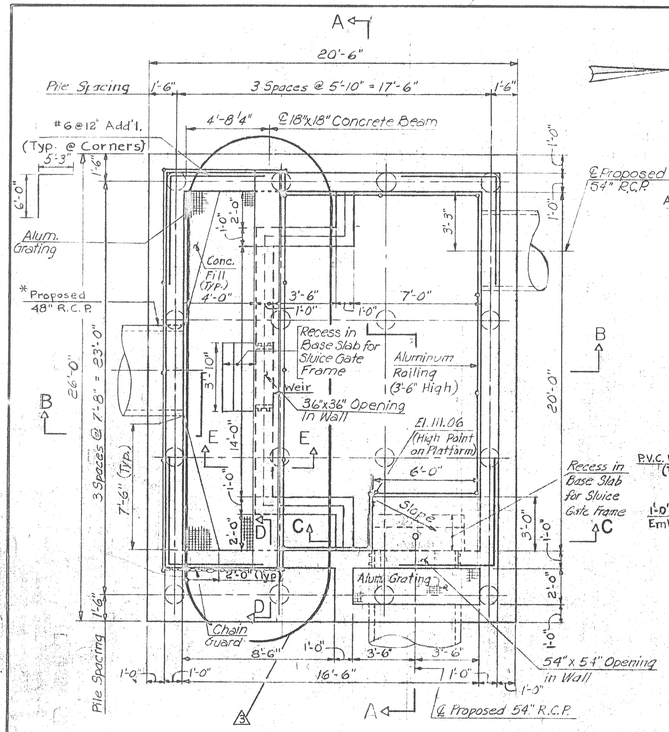
PUMP STATION

CE MAGUIRE, INC.

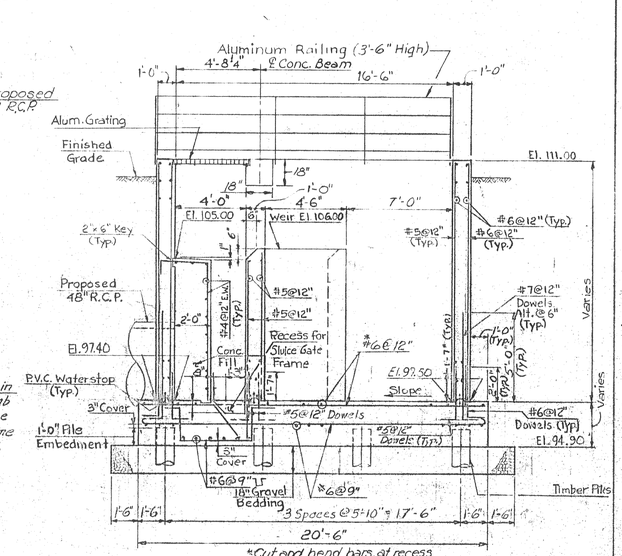
ARCHITECTS · ENGINEERS · PLANNERS

S-4

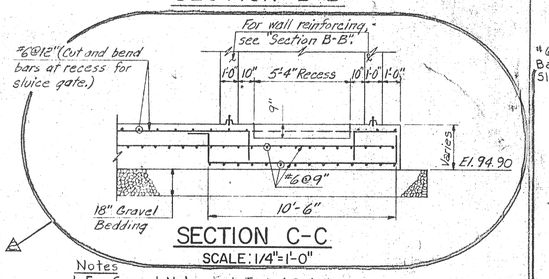
The Drattboard, Inc.



* Unsuitable material under pipe shall be replaced by Gravel Borrow as directed by the Engineer.

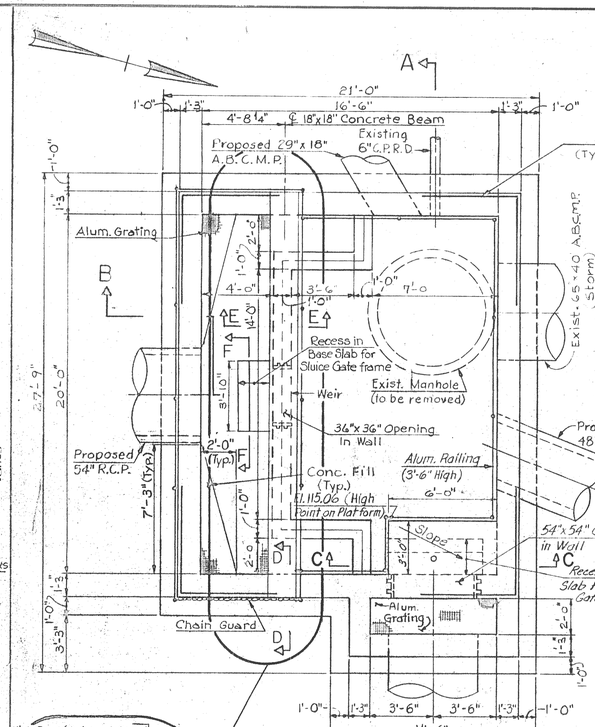


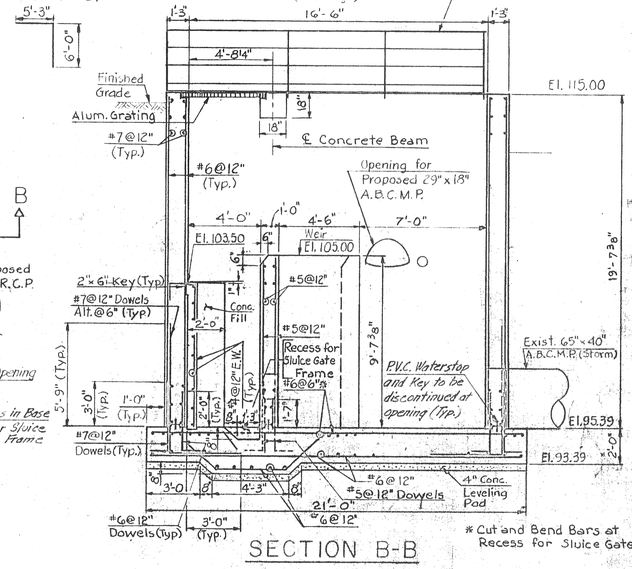
SECTION B-B



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

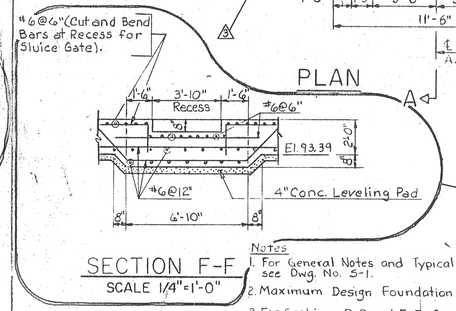
Notes
1. For General Notes and Typical Details, see Dwg. No. 5-1.
2. All piles to be Timber Piles (Capacity 22 Tons). Piles shall be of Douglas Fir or Southern Yellow Pine conforming to the requirements of A.S.T.M. Designation D 25-70. All timber piles shall be preservative treated in accordance with the requirements of "American Wood Preservers Association" Standard C1-67 (See Specifications).
3. For sequence of construction, see Specifications.





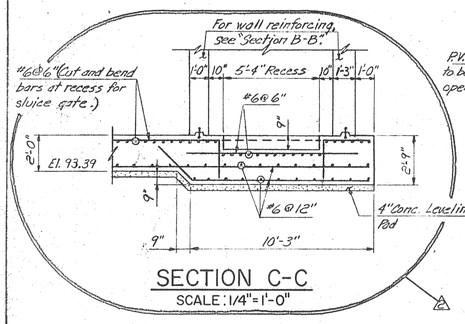
SECTION B-B

* Cut and Bend Bars at Recess for Sluice Gate.

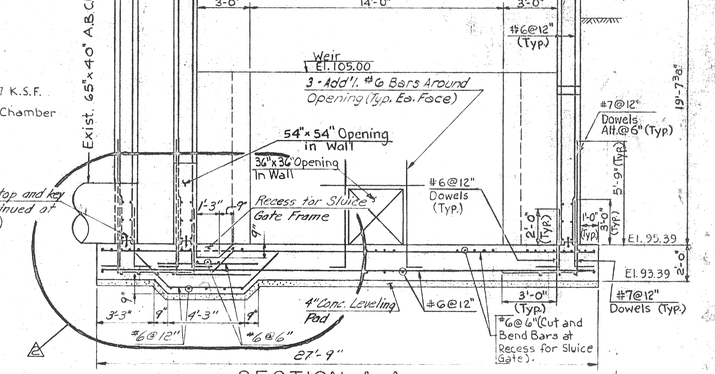


SECTION F-F
SCALE 1/4"=1'-0"

Notes
1. For General Notes and Typical Details, see Dwg. No. 5-1.
2. Maximum Design Foundation Pressure-1.7 K.S.F.
3. For Sections D-D and E-E, See Diversion Chamber A, this Drawing.

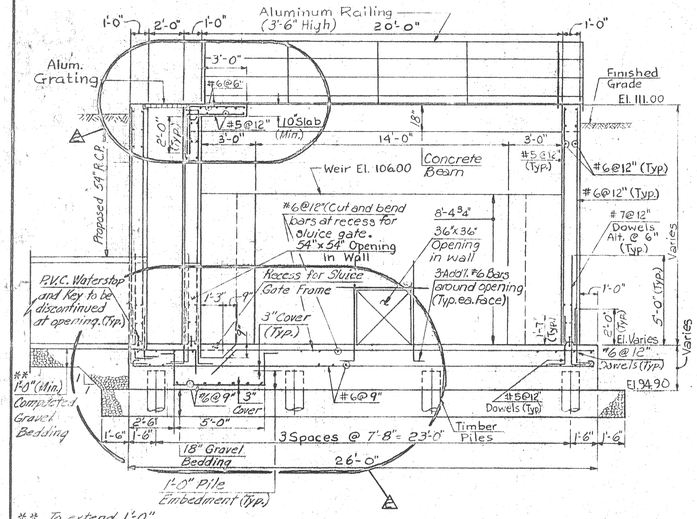


SECTION C-C
SCALE: 1/4"=1'-0"

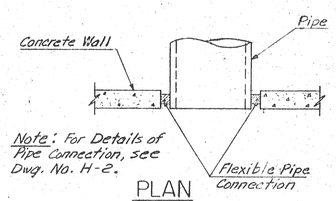


SECTION A-A

DIVERSION CHAMBER B
SCALE : 1/4 " = 1'-0"



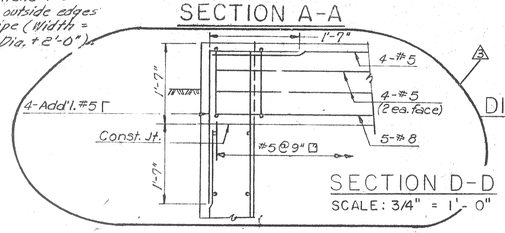
SECTION A-A



Note: For Details of Pipe Connection, see Dwg. No. H-2.

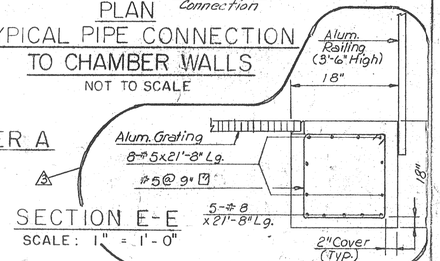
PLAN
TYPICAL PIPE CONNECTION TO CHAMBER WALLS
NOT TO SCALE

** To extend 1'-0" from outside edges of pipe (Width = Pipe Dia. + 2'-0").



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

DIVERSION CHAMBER A
SCALE : 1/4 " = 1'-0"



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

1	7-31-74	A.P.Jr.	G.S.W.	Chamber "A" modified for 54" R.C.P.
2	1-20-75	A.P.Jr.	G.S.W.	Base Slabs and Platforms revised
3	6-26-75	G.J.Z.	G.S.W.	Added Conc. Beam & Slab Recess
REVISION		MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: A.P.Jr. & H.M.P.	SCALE
DRAWN BY: H.M.P.	AS SHOWN
CHECKED BY: G.S.W.	
CONTRACT NO. 12	C.E.M. NO. 1912
APPROVED FOR C.E.M.	
Joseph A. Maguire REG. PROF. ENG.	10-30-73 DATE

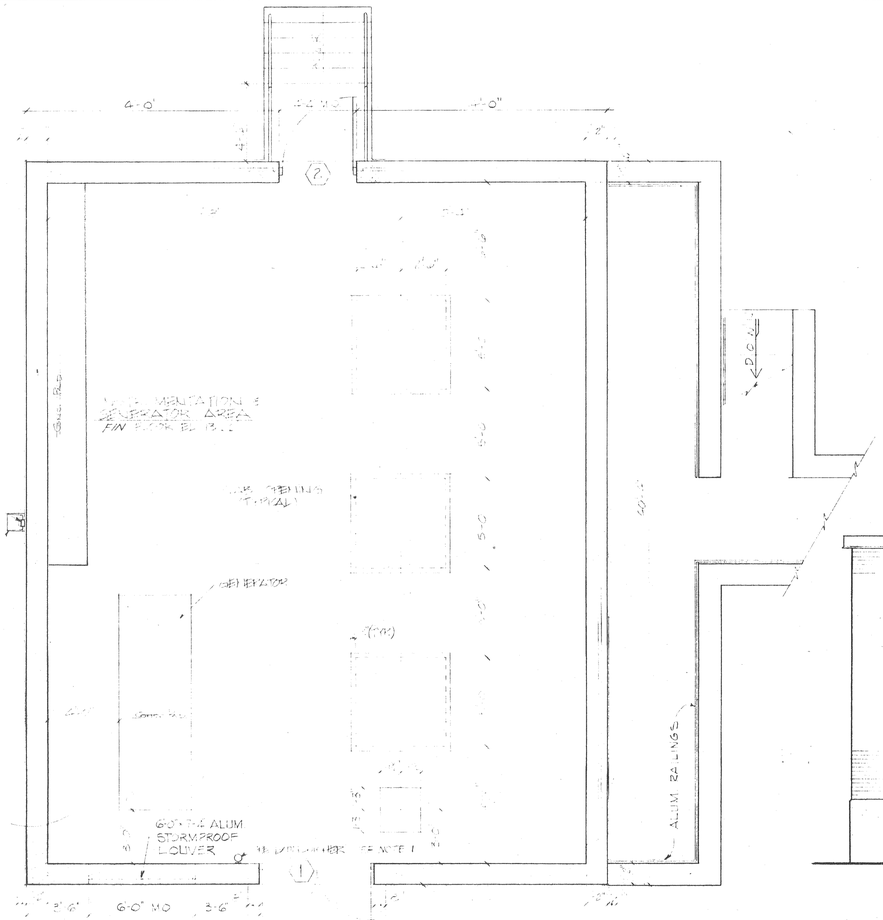
TOWN OF STRATFORD, CONNECTICUT

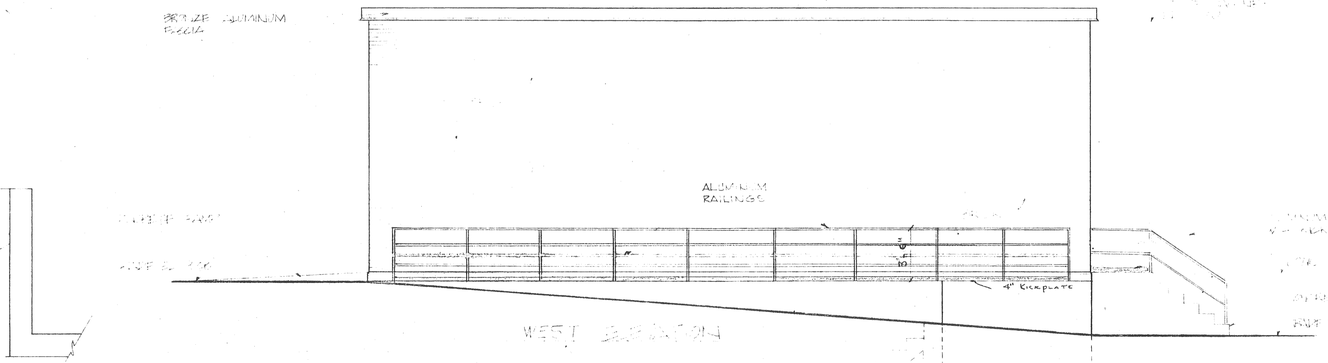
HURRICANE PROTECTION
FOR
WATER POLLUTION CONTROL PLANT
STRUCTURAL
DIVERSION CHAMBERS

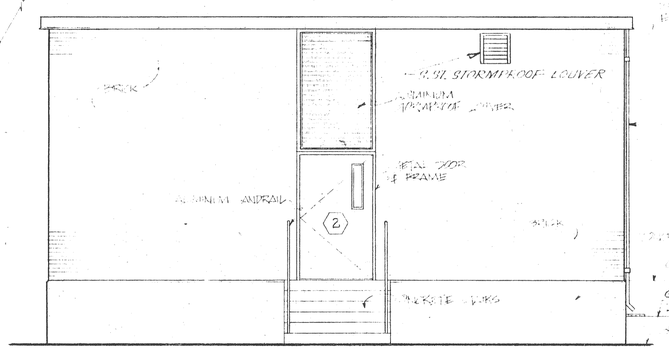
C.E. MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

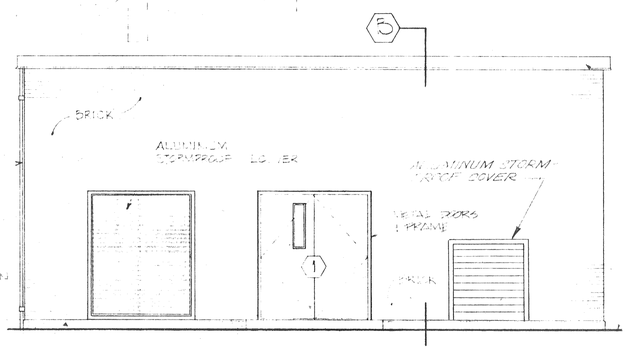
S-5

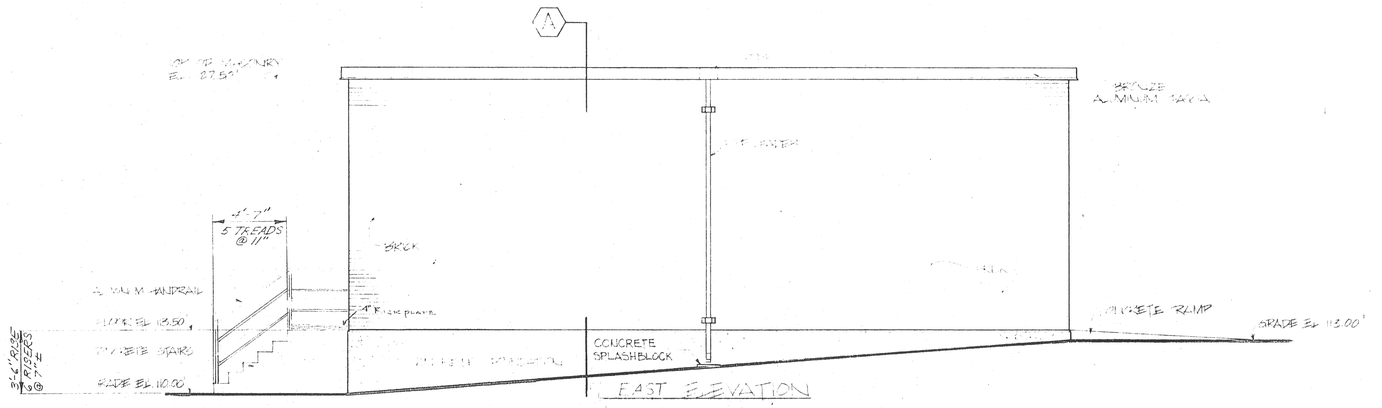
The Draftboard, Inc.

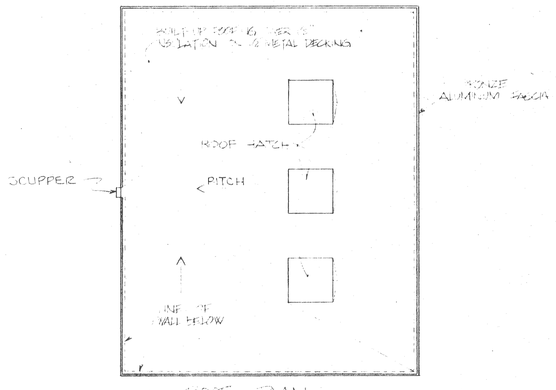












NOTE:

1. —— PROVIDE PORTABLE CARBON DIOXIDE FIRE EXTINGUISHER HAVING 10-POUND CAPACITY, WITH WALL MOUNTING BRACKETS WHERE SHOWN

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: J. A.C.		SCALE	
DRAWN BY: L. J.M. Jr.		AS NOTED	
CHECKED BY: J. A.C.			
CONTRACT NO.		C.E.M. NO. 1912	
APPROVED FOR C.E.M.			
REG. PROF. ENG.	DATE		

TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

ARCHITECTURAL — FLOOR PLANS & ELEVATIONS

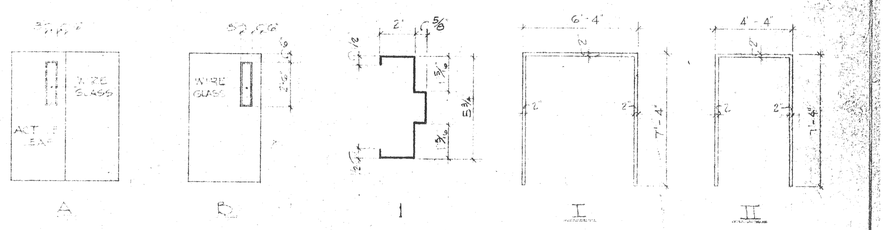
CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

A-1

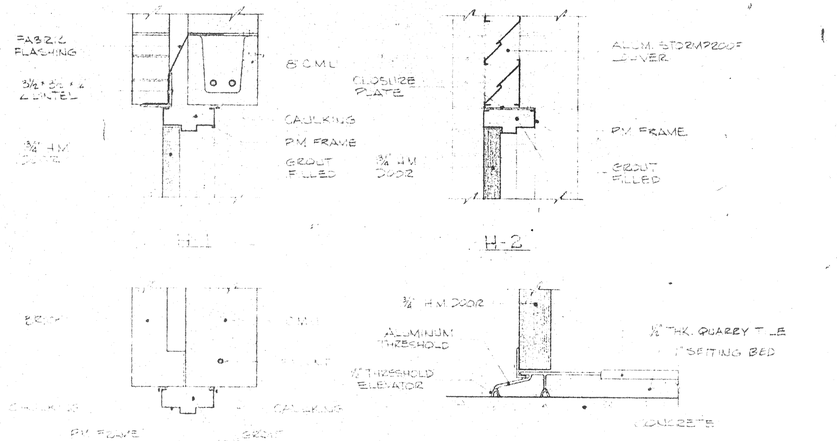
The Draftboard, Inc.

DOOR AND FRAME SCHEDULE

MARK	DOORS SIZE	DOORS TYPE	DOORS MAT.	FRAMES PROFILE	FRAMES TYPE	FRAMES MAT.	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
1	PR 3'-0" x 7'-0" x 1¾"	A	H.M.	1	I	P.M.	H-1	J-1	S-1	TOTAL WEATHERSTRIP
2	4'-0" x 7'-0" x 1¾"	B	H.M.	1	II	P.M.	H-2	J-1	S-1	TOTAL WEATHERSTRIP

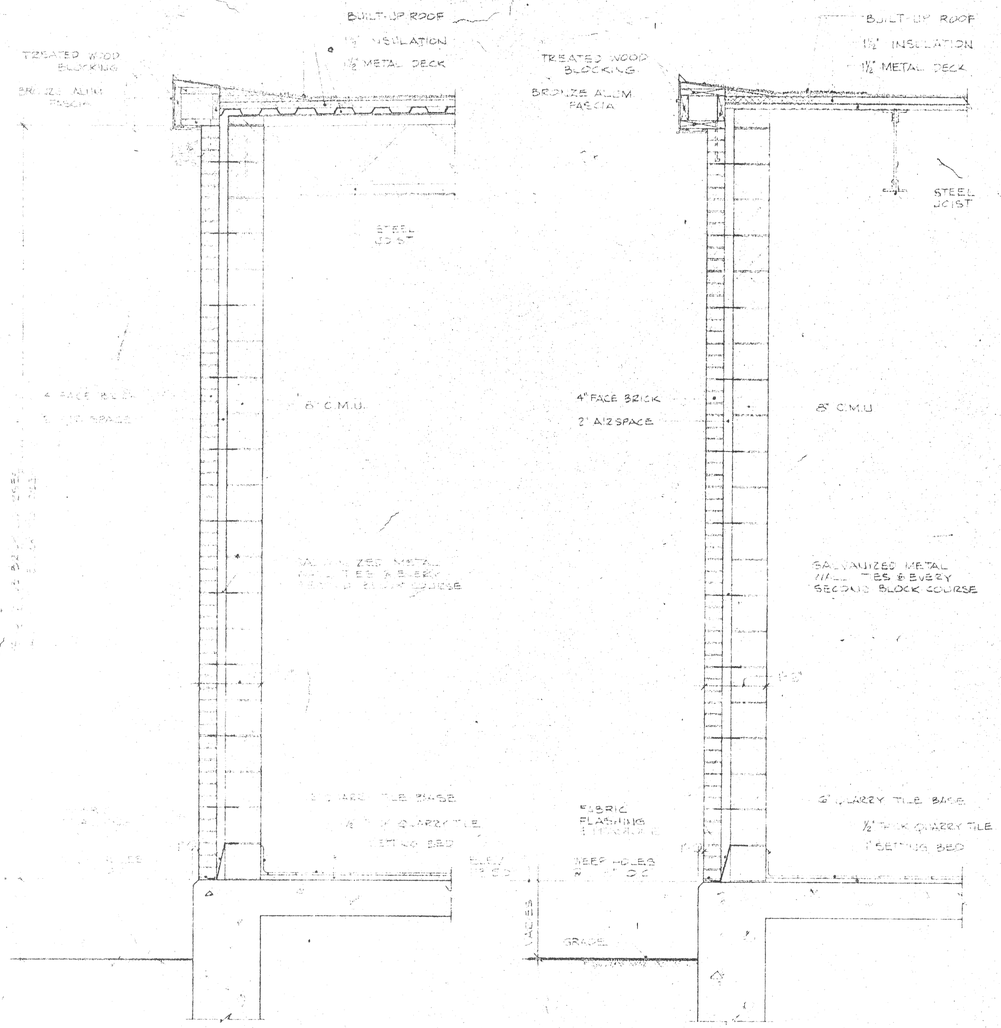


DOOR TYPES — PROFILE — FRAME TYPES

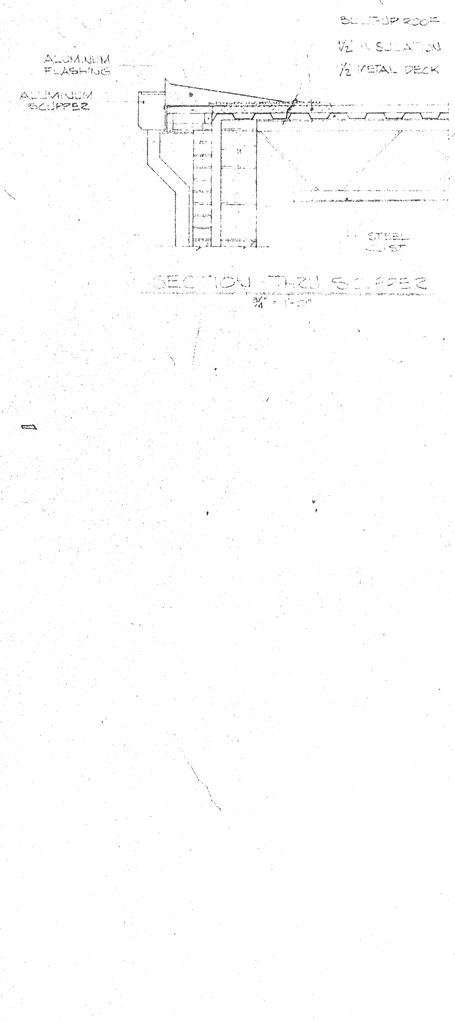


J-1 S-1

DOOR JAMB & SILL DETAILS



WALL SECTION A — 3/4" = 1'-0"



WALL SECTION B — 3/4" = 1'-0"

SECTION THRU SCUPPER — 3/4" = 1'-0"

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: J.A.C.	SCALE
DRAWN BY: J.A.B.	AS NOTED
CHECKED BY: J.A.C.	
CONTRACT NO.	C.E.M. NO. 1912
APPROVED FOR C.E.M.	
REG. PROF. ENG.	DATE

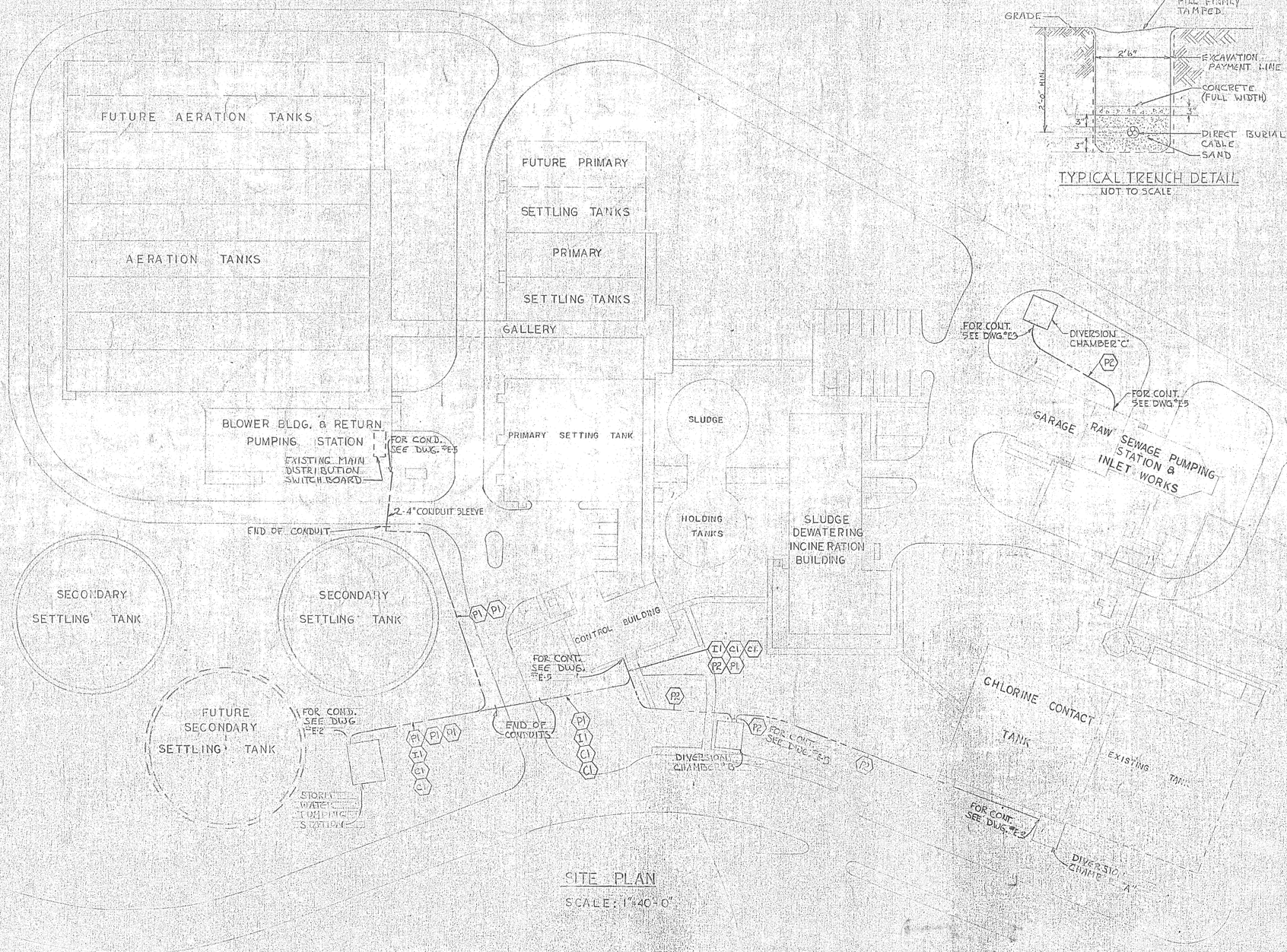
TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION
FOR
WATER POLLUTION CONTROL PLANT

ARCHITECTURAL — WALL SECTIONS & DETAILS

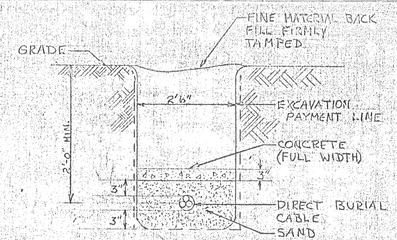
CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

A-2



SITE PLAN

SCALE: 1"=40'-0"



TYPICAL TRENCH DETAIL

NOT TO SCALE

LEGEND

- (A) CEILING LIGHT OUTLET, INCANDESCENT, LETTER DENOTES FIXTURE TYPE, SEE FIXTURE SCHEDULE, SUBSCRIPT INDICATED PANEL & CIRCUIT NUMBER.
- (D) WALL LIGHT OUTLET, INCANDESCENT.
- DUPLEX RECEPTACLE @ 18" ABOVE FLOOR 15 AMP. ARROW HART CAT. 5262.
- $_{WP}$ DUPLEX RECEPTACLE WEATHERPROOF ARROW HART CAT. #5769 @ 42" ABOVE FLOOR.
- S SINGLE POLE SWITCH, 20 AMP. ARROW HART CAT. #1991 @ 4'-0" ABOVE FLOOR UNLESS OTHERWISE NOTED, SUBSCRIPT INDICATES LIGHTS TO BE SWITCHED.
- S_T THERMAL TOGGLE SWITCH, 20 AMP. ARROW HART (X-EXPLOSION PROOF).
- $(J)_{WP}$ JUNCTION BOX, WEATHERPROOF.
- (T) THERMOSTAT WITH INSULATING BLOCK
- (F) FLOAT SWITCH.
- (M) MOTORIZED DAMPER.
- $_{WP}$ DISCONNECT SWITCH, WEATHERPROOF.
- O RISER CONN.
- TELEPHONE OUTLET (WALL PHONE (WALL MOUNTED @ 5'-0" ABOVE FLOOR)
- HOMERUN TO PANELBOARD, SUBSCRIPT INDICATES PANEL & CIRCUIT NO. MATCH MARK DENOTES NO. OF WIRES WHERE MORE THAN TWO.
- CONDUIT RUN EXPOSED.
- CONDUIT RUN CONCEALED IN CEILING OR WALL.
- DIRECT CABLE BURIAL (SEE TRENCH DETAIL THIS SHEET).
- HA 20.0 KW UNIT HEATER, 480 VOLT 3 Ø, 3W, COMPLETE WITH BUILT IN CONTACTOR & CONTROL TRANSFORMER, CHROMALOX LUH SERIES
- FC COOLING THERMOSTAT.
- (H) HUMIDASTAT.
- ER EXISTING SCANNER RELAY.
- (M) MOTOR (NUMERAL DENOTES HORSEPOWER).
- SV SOLENOID VALVE.
- LS LIMIT SWITCH.
- IS INTERCOM SPEAKER, WP INDICATES WEATHERPROOF
- TB 6 PAIR TERMINAL BOX
- TB-W 6 PAIR TERMINAL BOX OZ TYPE YH-S.
- EMERGENCY LIGHTING UNIT
- $\otimes_V$ EXIT LIGHT (SEE FIXTURE SCHEDULE).

GENERAL NOTES

GENERAL NOTES:

1. ALL DIRECT BURIAL CABLES RUN BENEATH ROADWAYS SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT SLEEVES, SIZED AS REQUIRED.
2. INSTALL 8'-0" H G/O / COPPER GROUND ROD AT EACH LIGHTING STANDARD AND GROUND EACH LIGHTING FIXTURE.
3. WHERE CONDUIT IS NOT IDENTIFIED IT SHALL BE 3/4" O.D. STEEL THREADED NOMINAL SIZE TO FIT 2 #12 WIRES.
4. FOR EXACT LOCATION OF HEATING & VENTILATION EQUIPMENT, SEE MECHANICAL DRAWINGS.
5. ADDITIONAL JUNCTION BOXES SHALL BE INSTALLED WHERE REQUIRED.
6. ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED.
7. AVOID ALL PIPING & DUCT WORK IN ALL AREAS WHERE RECESSED CEILING LIGHTING IS USED.
8. CONTRACTOR SHALL GROUND THE SECONDARY SIDE OF TRANSFORMER WITH #6 SOLID BARE COPPER WIRE RUN IN SAME CONDUIT TO THE SIDE OF WATER MAIN.
9. ALL LIGHTING FIXTURES SHALL BE LOCATED TO AVOID [illegible] WITH MECHANICAL EQUIPMENT.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR [illegible] AND CONFIRMING ALL STANDBY LOAD.
11. FOR SITE LIGHTING SEE [illegible]

CONDUIT AND CABLE SCHEDULE

(A) [illegible] CONTINUOUS WELDED ARMOR CABLE W/GROUND WIRE.

(B) [illegible] CONTINUOUS WELDED ARMOR CABLE.

(C) [illegible] SHIELDED, CONTINUOUS WELDED ARMOR CABLE.

(D) [illegible] CONTINUOUS WELDED ARMOR CABLE.

(E) [illegible] CONTINUOUS WELDED ARMOR CABLE.

(F) [illegible] CONTINUOUS WELDED ARMOR CABLE.

(G) [illegible] CONTINUOUS WELDED ARMOR CABLE.

(H) [illegible] CONTINUOUS WELDED ARMOR CABLE.

REVISION	MADE BY	CHECKED BY	DATE
DESIGNED BY:		SCALE:	
DRAWN BY: R.R.D.		AS NOTED	
CHECKED BY: [illegible]			
QUANTITIES:		DATE: 4/01	
APPROVED FOR BID:			
REVISIONS:		DATE:	

TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION

FOR

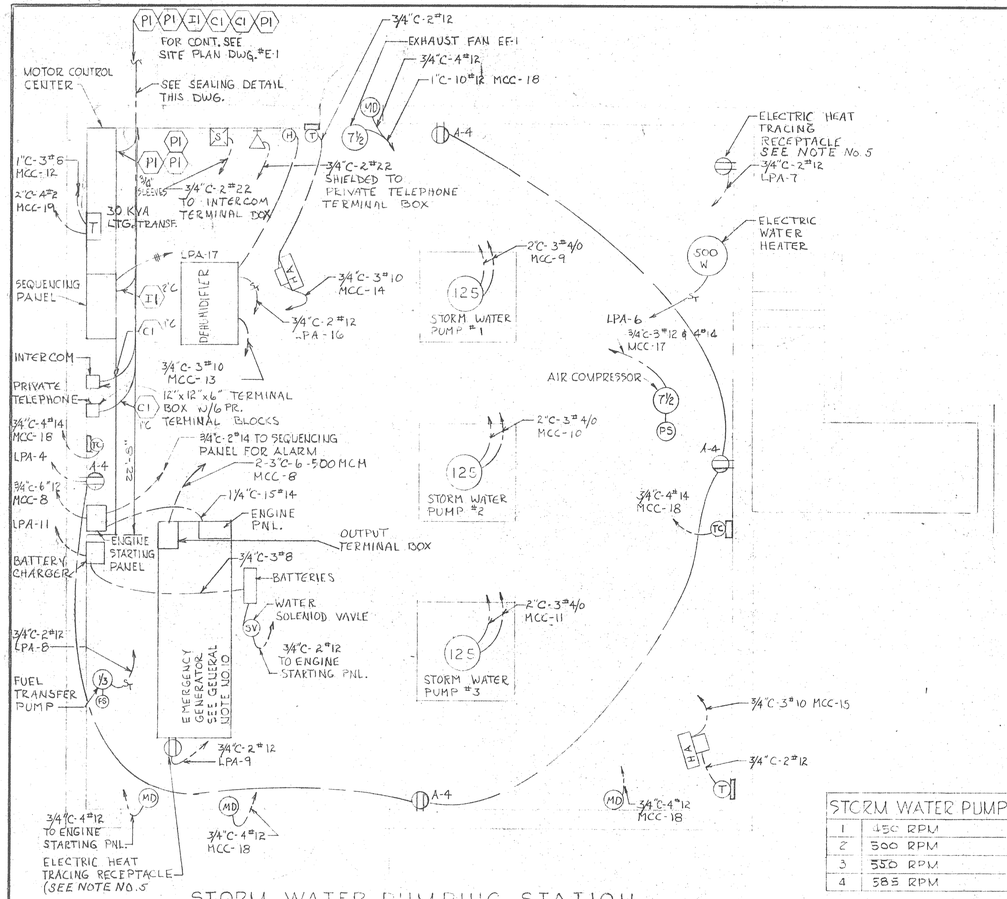
WATER POLLUTION CONTROL FACILITY

SITE PLAN

[illegible]

ARCHITECTS [illegible]

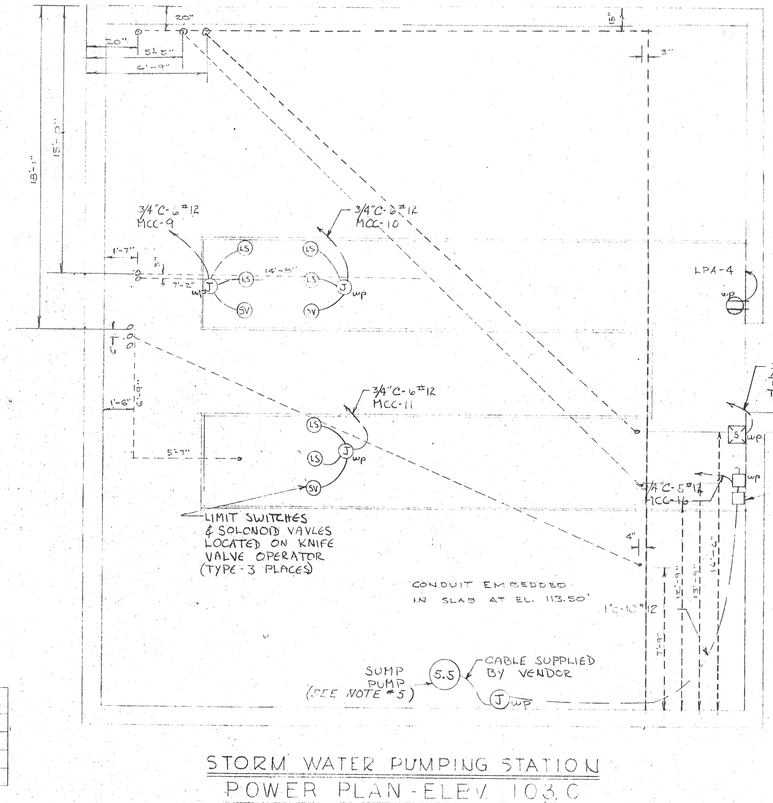
The Drafthouse, Inc.



STORM WATER PUMPING STATION
POWER PLAN ELEV. 111.0

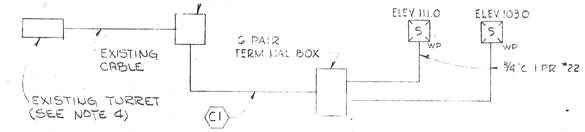
SCALE: ¼"-1'-0"

STORM WATER PUMP SPEEDS	
1	450 RPM
2	500 RPM
3	550 RPM
4	585 RPM



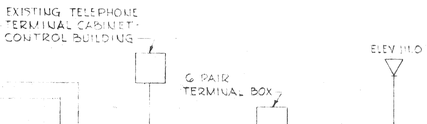
STORM WATER PUMPING STATION
POWER PLAN - ELEV. 103.0

SCALE: ¼"-1'-0"



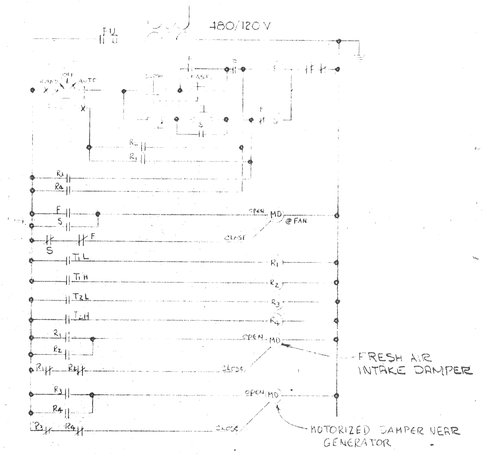
INTERCOM SYSTEM
SINGLE LINE DIAGRAM

NOT TO SCALE

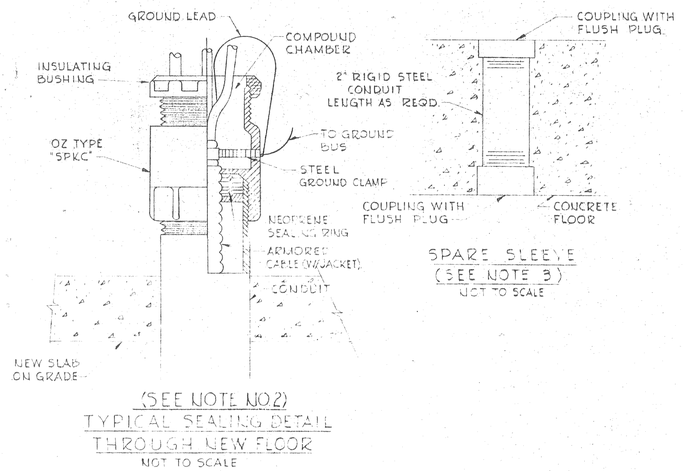


PRIVATE TELEPHONE SYSTEM
SINGLE LINE DIAGRAM

NOT TO SCALE



EXHAUST FAN NO. 1
WIRING DIAGRAM



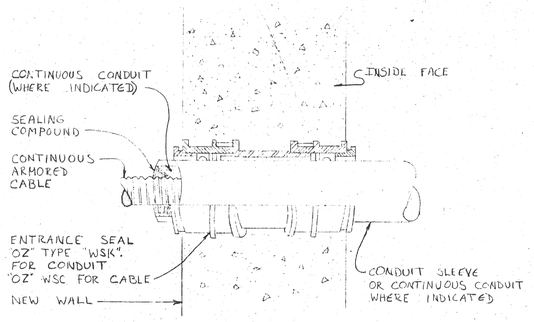
(SEE NOTE NO.2)

TYPICAL SEALING DETAIL
THROUGH NEW FLOOR

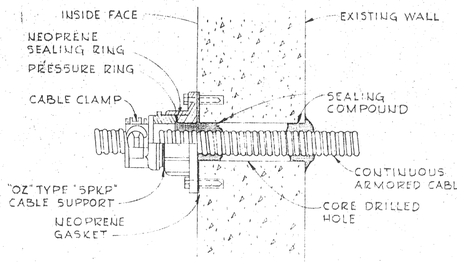
NOT TO SCALE

SPARE SLEEVE
(SEE NOTE 3)

NOT TO SCALE



TYPICAL SEALING DETAIL
THROUGH NEW WALL



TYPICAL SEALING DETAIL
THROUGH EXISTING WALL

NOT TO SCALE

NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DWG. NO. E-1.
2. SEAL TO BE USED IN ALL CASES WHERE EXTERIOR CABLES TERMINATE 2'-0" ABOVE GRADE AND BELOW.
3. PROVIDE 2-4" SLEEVES BELOW MOTOR CONTROL CENTER AND ONE-4" SLEEVE BELOW SEQUENCING PANEL.
4. ADD STORM WATER NAMEPLATE TO EXISTING INTERCOM TURRET.

NOTES (CONT)

5. PROVIDE MINERAL INSULATED (TYPE MI) TRACING CABLE OF EITHER SINGLE OR DUAL CONDUCTOR TO PROVIDE FREEZE PROTECTION AT(-1°F) AMBIENT CONDITION: PIPES TO HAVE 1-1/2" INSULATION, EXCEPT FOR SUMP PUMP AND SUMP PUMP PIPING. CABLES TO BE FACTORY FABRICATED OF THE PROPER LENGTH FOR EACH INSTALLATION. EACH CABLE TO BE THERMO STATICALLY CONTROLLED WITH A BULB CAPILLARY WEATHER-TIGHT THERMOSTAT. INSTALLATION TO BE MADE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CABLES TO BE TESTED PRIOR, DURING, AND AFTER INSTALLATION TO INSURE IT HAS NOT BEEN DAMAGED DURING INSTALLATION.

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: G.G.	SCALE: AS NOTED
DRAWN BY: R.B.	
CHECKED BY: J.L.	
CONTRACT NO.	C.E.M. NO. 1912
APPROVED FOR C.E.M.	
REG. PROF. ENG.	DATE

TOWN OF STRATFORD, CONNECTICUT

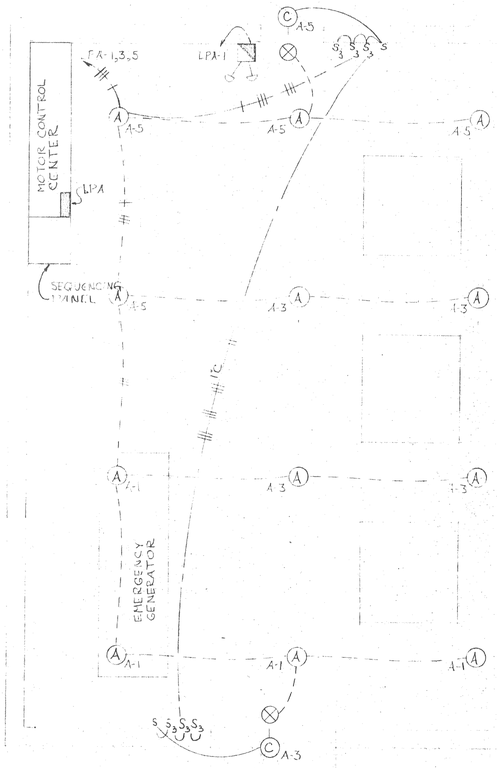
HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

POWER PLAN AND DETAILS

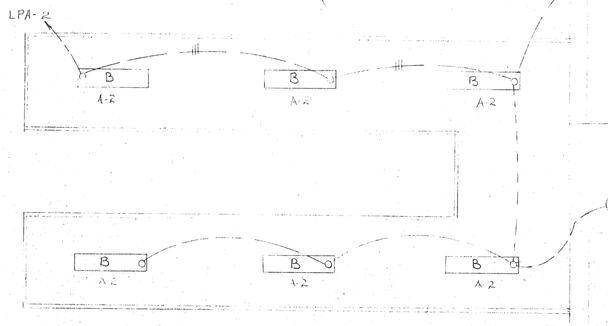
CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

E-2

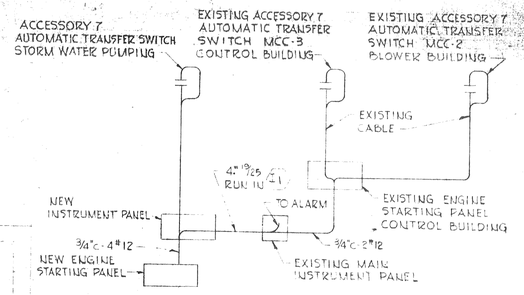
The Draftboard, Inc.



STORM WATER PUMPING STATION
LIGHTING PLAN - ELEVATION 114.62



STORM WATER PUMPING STATION
LIGHTING PLAN - ELEVATION 104.25



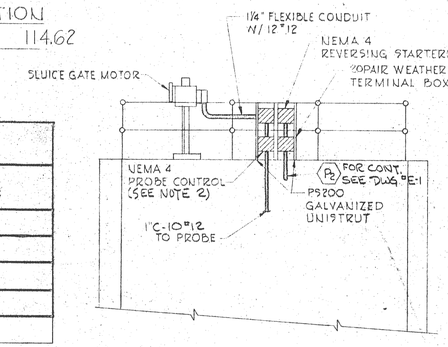
ENGINE STARTING SYSTEM
SINGLE LINE DIAGRAM
NOT TO SCALE

Lighting PANEL LPA
120/208VOLT 3 PHASE 4 WIRE - SOLID NEUTRAL
100 AMP. MAIN Lugs only
LOCATION Storm Water P.S.
MOUNTING M.C.C.

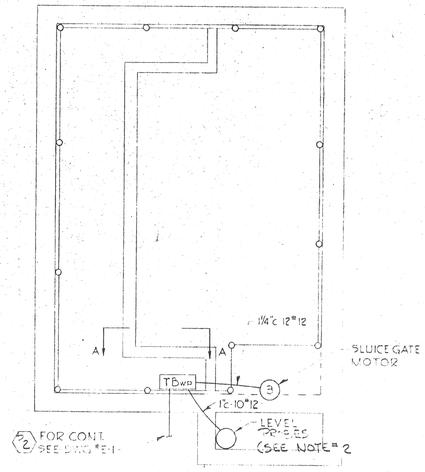
CIRCUIT NO.	BRKR. Poles	BRKR. Frame	BRKR. Amps. Trip	DESCRIPTION	MOTOR HORSE POWER	K.W.	AMP. AØ	AMP. BØ	AMP. CØ	WIRE SIZE	REMARKS
1	1	20		Lighting Elev. 111.0		1.400	11.66			12	
2	1	20		Lighting Elev. 103		.700	5.8			12	
3	1	20		Lighting Elev. 111.0		1.400		11.66		12	
4	1	20		Receptacles (10)		1.800		15.0		12	
5	1	20		Lighting Elev. 111.0		1.400			11.66	12	
6	1	20		Electric Water Heater		.500			4.2	12	
7	1	20		Electric Heat Tracing		.500	4.2			12	
8	1	20		Fuel Transfer Pump	1/3		7.2			12	
9	1	20		Electric Heat Tracing		.500		4.2		12	
10	1	20		Spare				---			
11	1	20		Battery Charger		.240			2.0	12	
12	1	20		Spare					---		
13	1	20		Spare			---				
14	1	20		Spare			---				
15	1	20		Spare				---			
16	1	20		DEHUMIDIFIER				12.0		12	
17	1	20		Sequencing Pn'L		1.200			10.0	12	
				TOTALS	1/3						

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	NO. OF LAMPS	LAMP TYPE	LAMP LUMENS	MOUNTING HEIGHT	SEE NOTE
A	Holophane	02420	1	PS30/1F 300W	6000	10'-0"	
B	Holophane	7200	2	F40CW	3200	Surface	
C	Holophane	408	1	A23/1F 200W	3540	8'-0"	
D	Holophane	408	1	A23/1F 150W	2730	6'-0"	
X	PERFECLITE	P-333	4	C7	-	OVER DOOR	



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



TYPICAL DIVERSION CHAMBER
SCALE 1/4"=1'-0"

NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DWG. NO E1.
2. LEVEL PROBE NOT REQUIRED CHAMBER C. GATE @ CHAMBER C TO CLOSE ONLY WHEN EITHER CHAMBER A OR B ARE CLOSED. IF A&B ARE BOTH OPEN. CHAMBER C SHALL BE OPEN.

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: G.G.
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CHECKED BY: J. L.
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C.E.M. NO. 1912
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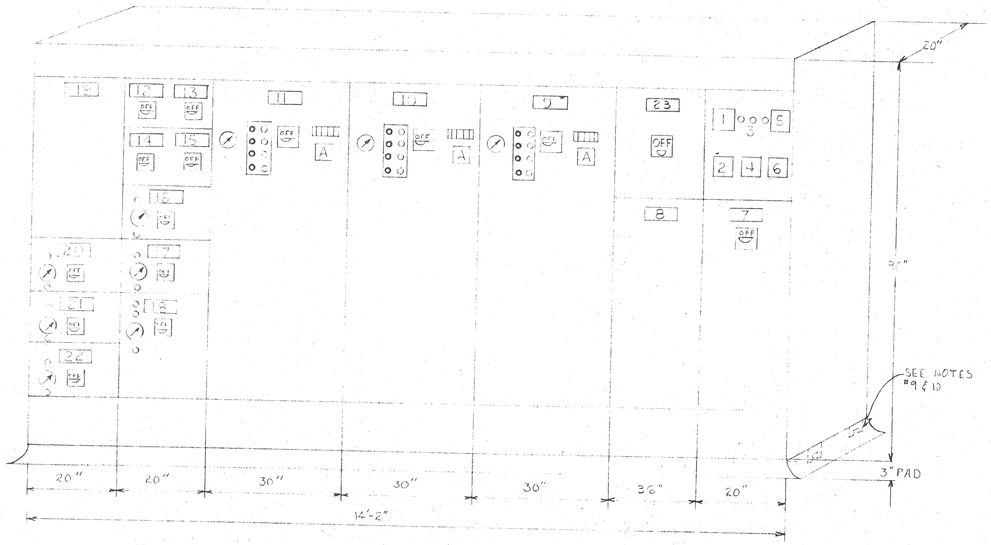
REG. PROF. ENG.
DATE

TOWN OF STRATFORD, CONNECTICUT
HURRICANE PROTECTION
FOR
WATER POLLUTION CONTROL PLANT
LIGHTING PLANS

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

E-3

The Draftboard, Inc.

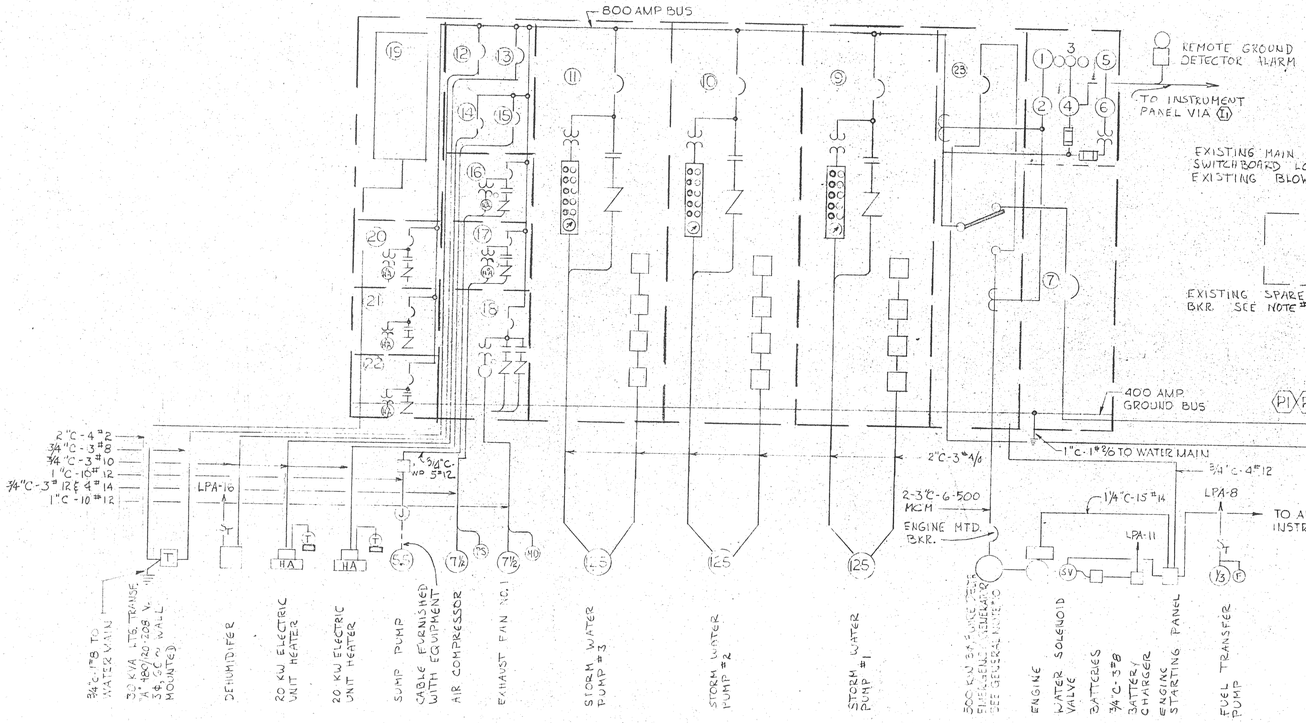


MOTOR CONTROL CENTER - ELEVATION

NOT TO SCALE

MOTOR CONTROL CENTER SCHEDULE

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS NO.	LUGS SIZE	START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
1	0/800	--	--	--	--	--	--	--	--	Ammeter		
2	--	--	--	--	--	--	--	--	--	Ammeter Switch		13
3	--	--	--	--	120	--	--	--	--	Ground Detection Lamps		
4	--	--	--	--	120	--	--	--	--	Ground Detector Switch		
5	--	--	--	--	0/600	--	--	--	--	Voltmeter		
6	--	--	--	--	120	--	--	--	--	Voltmeter Switch		
7	800	800	30,000	3	480	6	500 MCM	--	--	Main Breaker		
8	800	--	--	--	--	--	--	--	--	Automatic Transfer Switch		7
9	400	250	30,000	3	480	3	#4/0	4	125	Storm Water Pump #1		3, 4, 6, 8
10	400	250	30,000	3	480	3	#4/0	4	125	Storm Water Pump #2		3, 4, 6, 8
11	400	250	30,000	3	480	3	#4/0	4	125	Storm Water Pump #3		3, 4, 6, 8
12	100	50	14,000	3	480	3	#8	--	--	Ltg. Transf. "A"		
13	100	30	14,000	3	480	3	#10	--	--	Dehumidifier		
14	100	30	14,000	3	480	3	#10	--	--	Unit Heater #1		
15	100	30	14,000	3	480	3	#10	--	--	Unit Heater #2		
16	100	20	14,000	3	480	3	#12	1	5.5	Sump Pump		2
17	100	20	14,000	3	480	3	#12	1	7-1/2	Air Compressor		2
18	100	20	14,000	3	480	6	#12	1	7-1/2	Exhaust Fan #1		5,12,15
19	--	--	--	--	--	--	--	--	--	Lighting Panel "A"		
20	100	20	14,000	3	480	3	12	1	--	Spare		2
21	100	20	14,000	3	480	3	12	1	--	Spare		2
22	100	20	14,000	3	480	3	12	1	--	Spare		2
23	400	400	30,000	3	480	3	500MCM	--	--	CONTROL BLDG. EMER. BREAKER		



MOTOR CONTROL CENTER - SINGLE LINE DIAGRAM

NOT TO SCALE

NOTES

1. FOR GENERAL NOTES AND LEGEND SEE DWG. NO. E-1.
2. PROVIDE "HAND-OFF-AUTOMATIC" SELECTOR SWITCH WITH GREEN "ON" AND RED "OFF" PILOT LIGHTS. SEE DWG. E-2 FOR SPEEDS REQUIRED
3. PROVIDE WOUND ROTOR MOTOR CONTROLLER WITH FOUR SPEED REGULATING POINTS.
4. PROVIDE AMMETER AND AMMETER SELECTOR SWITCH.
5. PROVIDE "SLOW-FAST-OFF-AUTOMATIC" SELECTOR SWITCH WITH RED "OFF," GREEN "SLOW," AND AMBER "FAST PILOT LIGHTS.
6. PROVIDE ELAPSED TIME METER.
7. PROVIDE 800 AMP. AUTOMATIC TRANSFER SWITCH.
8. PROVIDE "AUTOMATIC-STOP-1st SPEED, 2ND SPEED-3RD SPEED-4TH SPEED" SELECTOR SWITCH WITH RED "OFF," GREEN "1ST SPEED," AMBER "2ND SPEED," BLUE "3RD SPEED" AND YELLOW "4TH SPEED" PILOT LIGHTS.
9. PROVIDE SHIPPING CHANNELS, GROUTED INTO EQUIPMENT PAD.
10. EQUIPMENT PAD SHALL EXTEND BEYOND THE MOTOR CONTROL CENTER TO ACCOMODATE THE INSTRUMENT AND SEQUENCING PANEL. THE SHIPPING CHANNELS SHALL BE CONTINUOUS UNDER THE MOTOR CONTROL CENTER, INSTRUMENT AND SEQUENCING PANEL.
11. EXISTING 1600 AMP. FRAME, 600 AMP. TRIP BREAKER NO.17 TO BE REVISED TO 800 AMPS. NAMEPLATE TO BE CHANGED TO READ "STORM WATER PUMPING STATION." ADD 3 - 500 MCM LUGS.
12. SEE WIRING DIAGRAM DRAWING #E-2.
13. NORMAL-STANDBY-OFF SELECTOR SWITCH.
14. PROVIDE "STOP-START" PUSHBUTTON STATION WITH RED AND GREEN PILOT LIGHTS.
15. PROVIDE STARTER FOR TWO SPEED, TWO WINDING MOTOR

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: G. G.
DRAWN BY: R. B.
CHECKED BY: J. L.
CONTRACT NO.
SCALE: AS NOTED
C.E.M. NO. 1912
APPROVED FOR C.E.M.
REG. PROF. ENG. ____ DATE ____

TOWN OF STRATFORD, CONNECTICUT

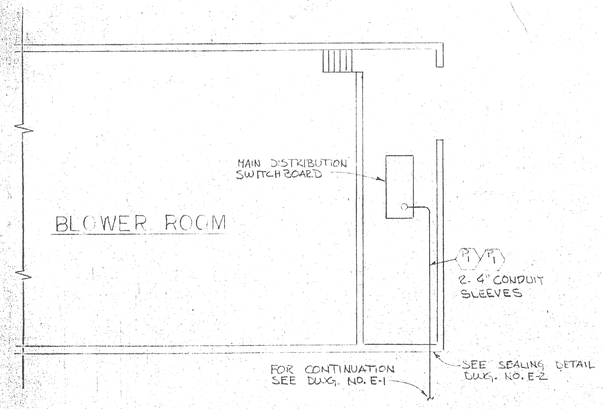
HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

MOTOR CONTROL CENTER

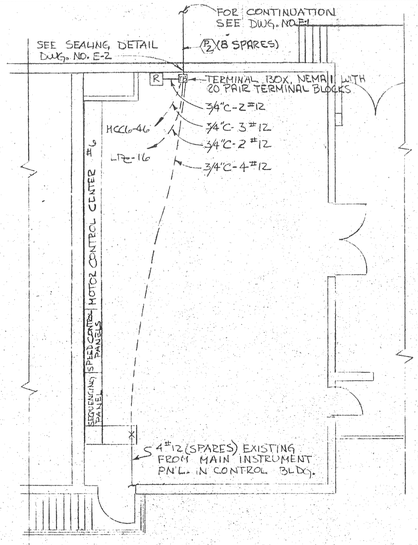
CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

E-4

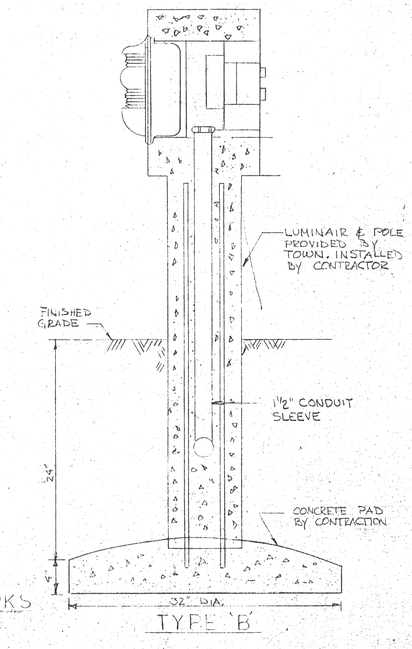
The Draftboard, Inc.



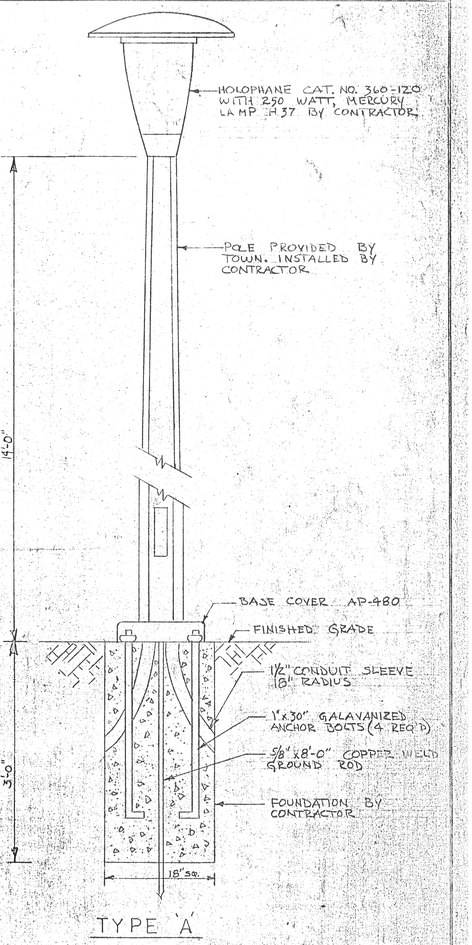
PART PLAN
BLOWER BLDG. & RETURN SLUDGE PUMPING STATION



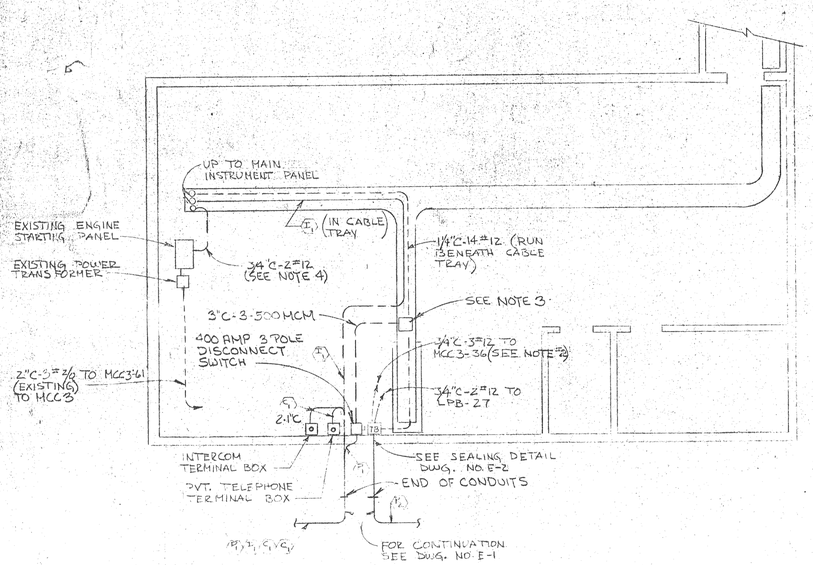
PART PLAN
RAW SEWAGE PUMPING STA. & INLET WORKS



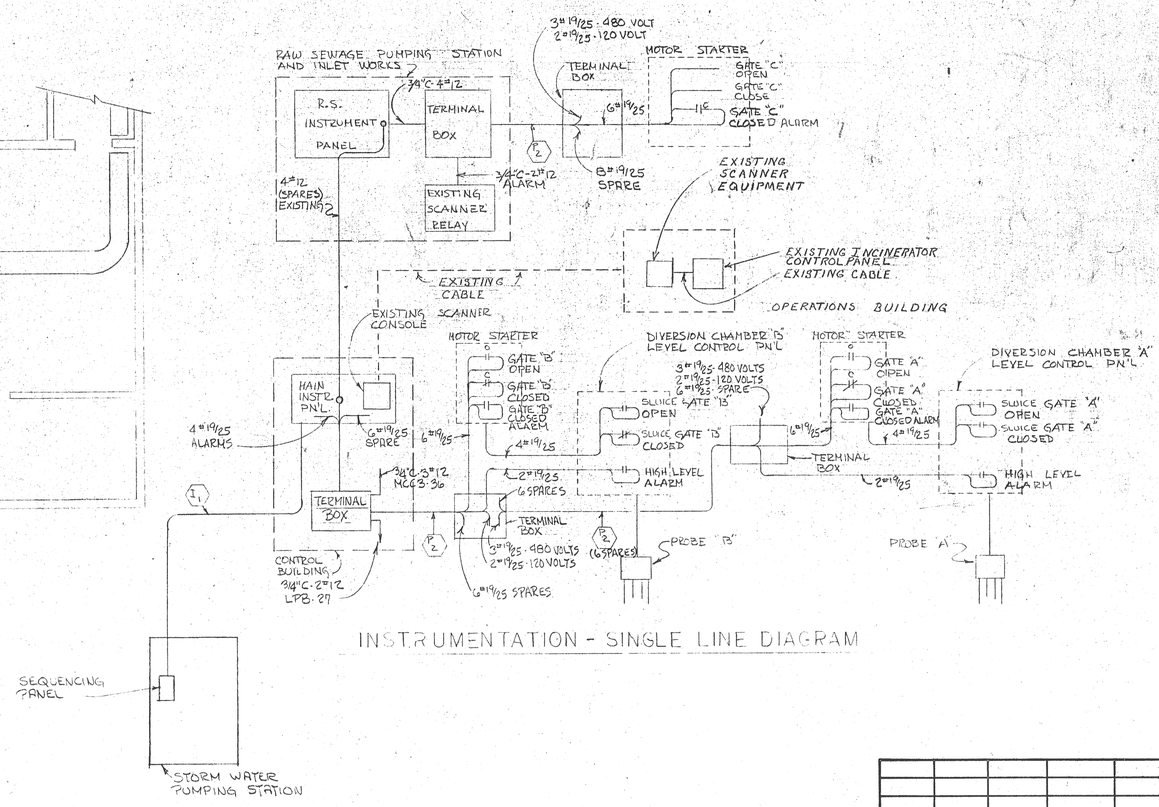
TYPE 'B'



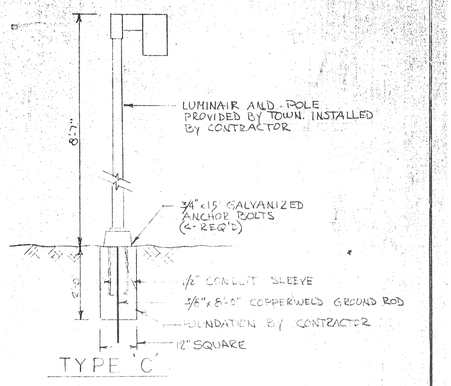
TYPE 'A'



PART PLAN
CONTROL BLDG. - BASEMENT
SCALE 1/5 = 1'-0"



INSTRUMENTATION - SINGLE LINE DIAGRAM



TYPE 'C'

NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE DWG. E-1
2. REMOVE EXISTING STARTER IN MCC 3-36 AND REPLACE WITH A NEW 20 AMP., 3 POLE BREAKER.
3. PROVIDE NEW 400 AMP 3 POLE, 600 VOLT MANUAL TRANSFER SWITCH NEMA 1A ENCLOSURE. MOUNT ON END OF EXISTING MCC 3.
4. ROUTE ENGAINGE STARTING CONTROLS THROUGH CABLE T1 TO STORM WATER PUMPING STATION

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: G.G.	SCALE	
DRAWN BY: R.B.	AS NOTED	
CHECKED BY: J.L.		
CONTRACT NO.	C.E.M. NO. 1912	
APPROVED FOR C.E.M.		
REG. PROF. ENG.	DATE	

TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION

FOR

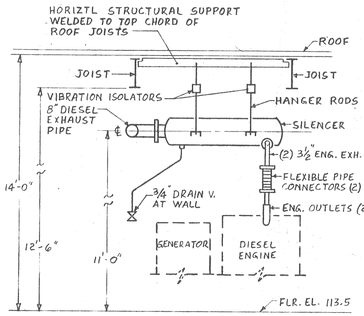
WATER POLLUTION CONTROL PLANT

POWER PLANS AND MISCELLANEOUS DETAILS

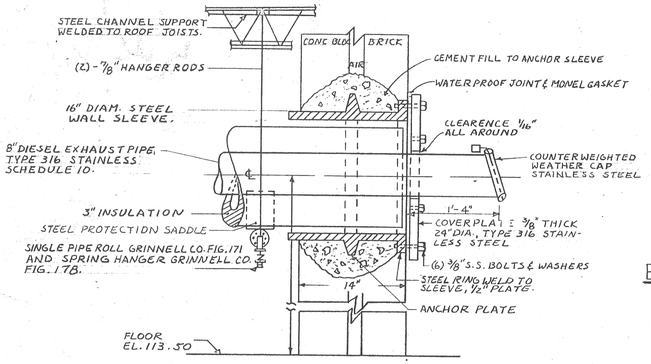
CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

E-5

The Drafthoard, Inc.

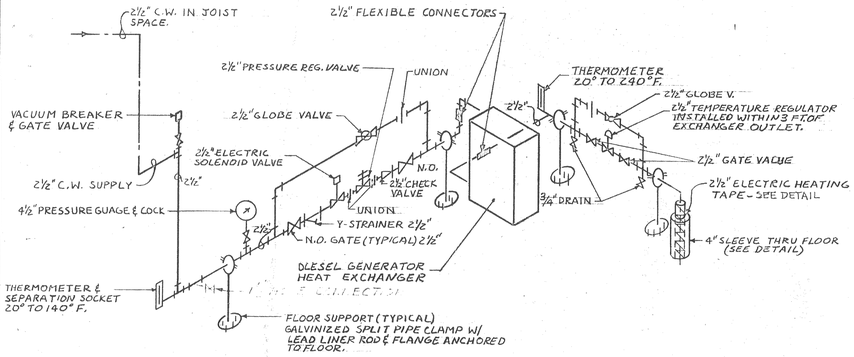


DIESEL-SILENCER PIPING DETAIL
NO SCALE

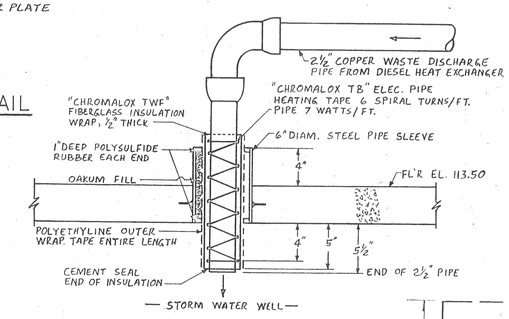


DIESEL EXHAUST SLEEVE DETAIL
NO SCALE

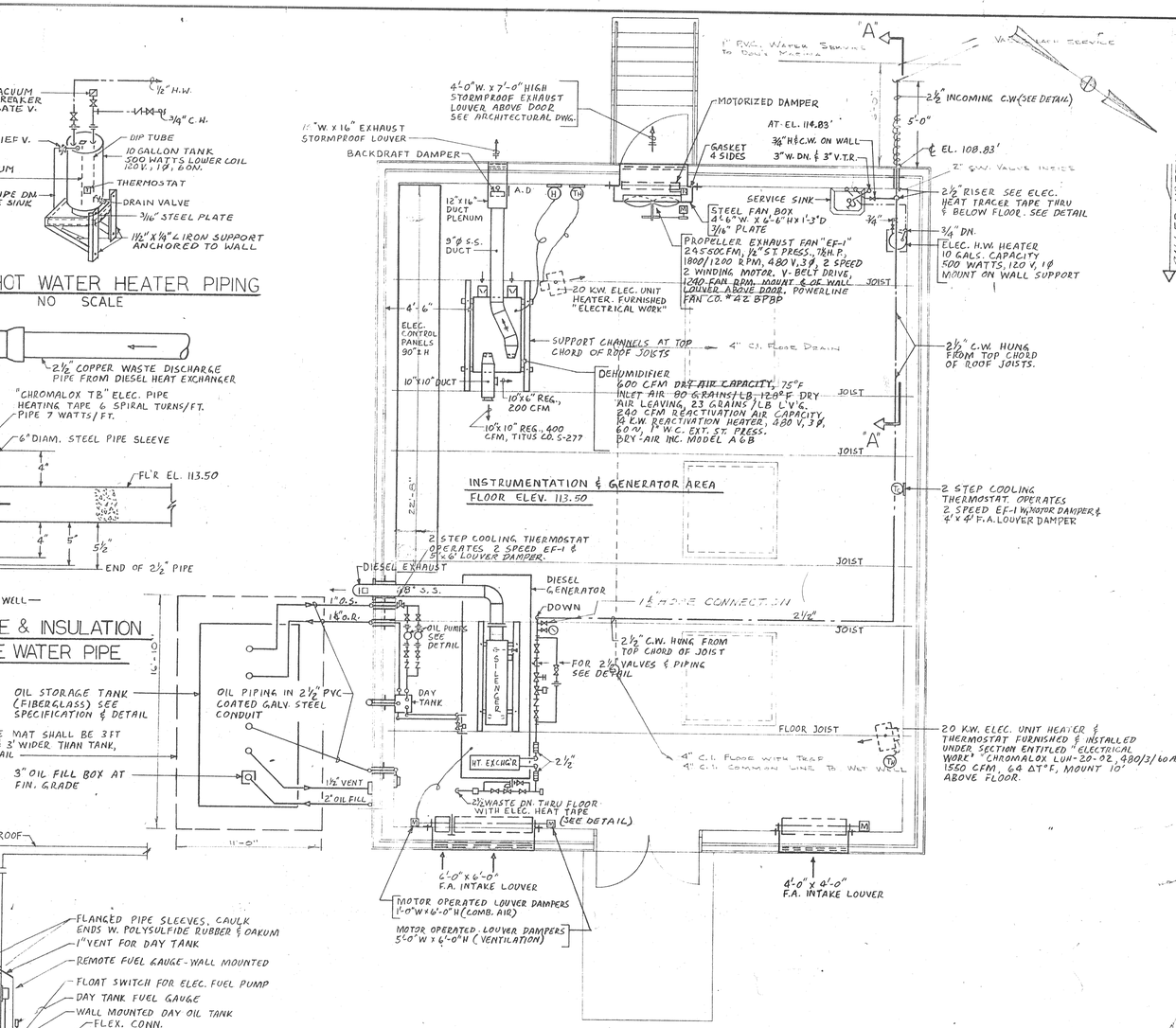
ELEC. HOT WATER HEATER PIPING
NO SCALE



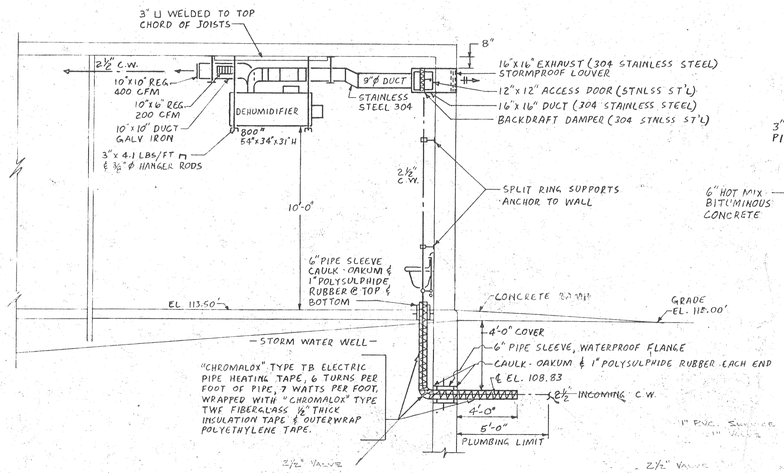
DETAIL OF WATER PIPING AT DIESEL GENERATOR
NO SCALE



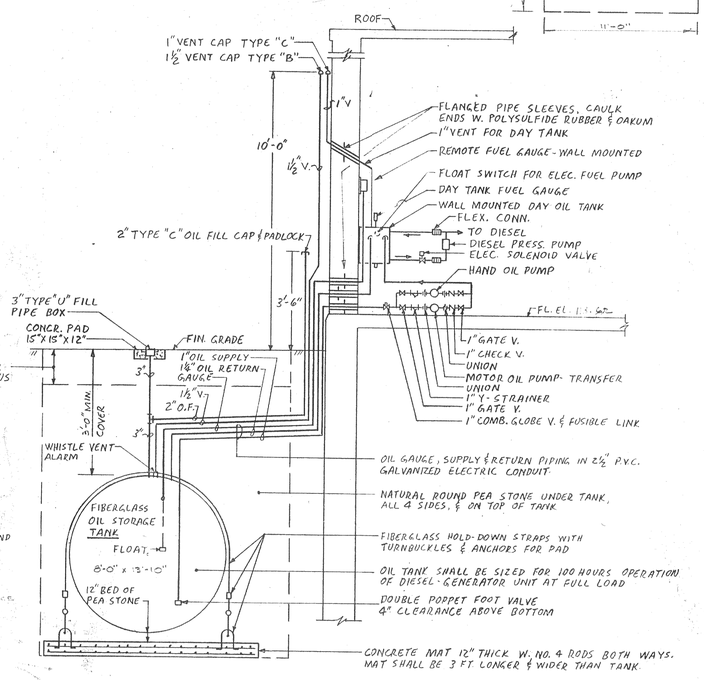
ELECTRIC HEATING TAPE & INSULATION AT DIESEL DISCHARGE WATER PIPE
NO SCALE



FLOOR PLAN
SCALE 1/4"=1'-0"



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



OIL PIPING DIAGRAM
NO SCALE

NOTE
1) UNDER THE DIESEL GENERATOR THE CONTRACTOR SHALL PROVIDE & INSTALL A 4" "VIBRATION PAD" AS DIRECTED BY THE ENGINEER. (SPS 1, AND 3)
2) 2 - 4" C.I. FLOOR DRAINS ON MAIN FLOOR TO A COMMON LINE TO THE WET WELL

REVISION	MADE BY	CHECKED BY	DESCRIPTION

DESIGNED BY: C.J.	SCALE
DRAWN BY: R.D.	AS NOTED
CHECKED BY: C.W.J.	
CONTRACT NO. 12	C.E.M. NO. 1971
APPROVED FOR C.E.M.	
REG. PROF. ENG.	DATE

TOWN OF STRATFORD, CONNECTICUT

HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT

HEATING & VENTILATING - PLUMBING

CE MAGUIRE, INC.
ARCHITECTS · ENGINEERS · PLANNERS

M-1

The Draftboard, Inc.

CIVIL GENERAL NOTES:

1. THE NORTH ARROW AND COORDINATES ARE BASED ON THE CONNECTICUT STATE COORDINATE SYSTEM N.A.D. 1983, USING CTGS #6031 & #6032. THE ELEVATIONS ARE BASED UPON (N.G.V.D. 1929+100') USING TOWN OF STRATFORD GPS MONUMENT #5005

2. TOPOGRAPHIC AND BOUNDARY SURVEY WAS PREPARED BY DIVERSIFIED TECHNOLOGY CONSULTANTS, INC.

3. WETLANDS FLAGS SET BY DAVID LORD OF SOIL RESOURCE CONSULTANTS AND FIELD LOCATED ON MAY 6, 2004 BY DIVERSIFIED TECHONOLGY CONSULTANTS DTC.

4. THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE FROM MAPS OF UTILITY COMPANIES, FIELD SURVEYS, RECORD DESIGN DRAWINGS, RECORD AS-BUILT DRAWINGS, AND THE BEST AVAILABLE INFORMATION. THEY MUST BE CONSIDERED AS ONLY APPROXIMATE BOTH AS TO SIZE AND LOCATION, AND ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL FIELD LOCATIONS. LOCATIONS OF CRITICAL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD BY TEST PITS.

5. ALL DIMENSIONS AND ELEVATIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR.

6. ALL EXISTING UTILITY SERVICES SHALL BE PROTECTED AND MAINTAINED IN SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY RELOCATIONS WITH THE RESPECTIVE SERVICE PROVIDER.

7. UTILITY POLES ARE TO BE RELOCATED BY THEIR OWNERS, AS REQUIRED, BEFORE AND DURING CONSTRUCTION.

8. THE CONTRACTOR MUST CALL "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. (1-800-922-4455).

9. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL," LATEST EDITION.

10. ALL EXISTING FEATURES ARE DRAWN AS SCREENED, LIGHT LINES. PROPOSED FEATURES ARE SHOWN AS SOLID, DARK LINES.

11. ALL CONSTRUCTION IN THE TOWN R.O.W. SHALL BE IN ACCORDANCE WITH THE STATE OF CONNECTICUT FORM 816 SPECIFICATIONS LATEST EDITION FOR ROAD CONSTRUCTION AND THE TOWN OF STRATFORD STANDARDS UNLESS OTHERWISE NOTED. ALL SANITARY SEWER AND WATER SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION AND DEPARTMENT OF PUBLIC HEALTH STANDARDS.

12. THE CONCRETE CURB AND BITUMINOUS CONCRETE PAVEMENT EDGE RADIUS SHALL EQUAL 4.0 FEET, UNLESS OTHERWISE NOTED.

13. THE CONCRETE SIDEWALK RADIUS SHALL EQUAL 4.0 FEET, UNLESS OTHERWISE NOTED.

14. THE LONGITUDINAL SLOPE ALONG THE HANDICAPPED ACCESSIBLE PATH SHALL NOT EXCEED 5% AND THE CROSS SLOPE ALONG THE HANDICAPPED ACCESSIBLE PATH SHALL NOT EXCEED 2%. CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/2 INCH, AND SLOPES SHALL NOT BE GREATER THAN 5% UNLESS RAMPS OR LIFTS ARE PROVIDED.

15. THE LOCATION OF ALL HANDICAPPED PARKING SPACES SHALL BE APPROVED BY THE TOWN OF STRATFORD BUILDING OFFICIAL.

16. WITHIN THE PROJECT LIMITS, PROTECT ALL IRON PIPE OR MONUMENT PROPERTY LINE MARKERS.

17. WITHIN THE CONTRACT LIMITS, CLEAR AND GRUB ALL TREES AND STUMPS AS INDICATED ON THE DEMOLITION PLANS.

18. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE PROPER IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROLS, AS SHOWN ON THE PLANS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES OF SUCH REQUIREMENTS AND NOTIFICATION OF ANY TRANSFER OF RESPONSIBILITY.

19. ALL CONSTRUCTION LAYOUT AND AS-BUILTS MUST BE PERFORMED BY A CONNECTICUT LICENSED LAND SURVEYOR.

20. ALL OFFSITE UTILITIES SHALL BE CONSTRUCTED PER THE RESPECTIVE UTILITY PROVIDER'S SPECIFICATIONS.

21. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THESE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE TOWN OF STRATFORD ENGINEERING DEPARTMENT AND THE DESIGN ENGINEER FOR RESOLUTION.

22. PROTECT ALL PROJECT BENCH MARKS OUTSIDE CONTRACT LIMITS.

23. PROTECT REGULATED AREAS OUTSIDE CONTRACT LIMITS AND WITHIN CONTRACT LIMITS.

24. THE CONTRACTOR MUST FLAG LIMITS OF CLEARING AND LOCATE ALL TREES WITHIN 10 FEET OF THE CLEARING LIMIT. THE CONTRACTOR MUST OBTAIN APPROVAL OF THE CLEARING LIMITS BY THE ZONING ENFORCEMENT OFFICER AND THE ENGINEER/LANDSCAPE ARCHITECT.

25. ALL TREES TO REMAIN MUST BE PROTECTED IN ACCORDANCE WITH THE 2002 CONNECTICUT EROSION AND SEDIMENT CONTROL GUIDELINES. STORAGE OF MATERIALS OR EQUIPMENT IS NOT PERMITTED WITHIN THE TREE PROTECTION LIMTS.

26. THE CONTRACTOR SHALL LOOSEN PLANTED/LANDSCAPED AREAS TO A DEPTH OF 2 FEET BELOW SUBGRADE PRIOR TO PLACING TOPSOIL. COMPACTION IN PLANTED/LANDSCAPED AREAS MUST NOT EXCEED 80% AND CONSTRUCTION EQUIPMENT IS NOT PERMITTED ON LOOSENED SUBGRADE.

27. EXISTING PLANT WATER TO REMAIN IN SERVICE. RELOCATE AS REQUIRED WHEN IN CONFLICT WITH PROPOSED YARD PIPING. ALL YARD HYDRANTS TO BE REPLACED WITH NEW POST TYPE YARD HYDRANTS.

28. COORDINATE NATURAL GAS LINE INSTALLATION AND METER LOCATION WITH SOUTHERN CONNECTICUT GAS COMPANY.

29. ELECTRICAL EQUIPMENT LOCATIONS ARE SHOWN FOR COORDINATION. REFER TO SITE ELECTRICAL DRAWINGS FOR FURTHER DETAILS.

30. CITY WATER TO REMAIN IN SERVICE. RELOCATE AS REQUIRE WHEN IN CONFLICT WITH PROPOSED YARD PIPING.

31. RESTRAINED FLEXIBLE COUPLINGS ARE REQUIRED FOR ALL BURIED PRESSURE PIPING.

32. NOT ALL REQUIRED BURIED PIPING BENDS AND FITTINGS ARE SHOWN OR LABELED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY FITTINGS AND BENDS REQUIRED TO COMPLETE THE PIPING LAYOUT SHOWN.

33. BURIED PIPING SHALL GENERALLY SLOPE GRADUALLY BETWEEN ELEVATIONS SHOWN ON THE DRAWINGS, WITHOUT INSTALLATION OF HIGH POINTS AND LOW POINTS TO THE MAXIMUM EXTENT POSSIBLE.

CIVIL GENERAL ABBREVIATIONS

B	BORING
BCLC	BITUMINOUS CONCRETE LIP CURBING
BH	BORING
BIT	BITUMINOUS
BLDG	BUILDING
CB	CATCH BASIN
CONC	CONCRETE
CY	CUBIC YARDS
Δ	DELTA
DEG	DEGREE
DIA	DIAMETER
E	EAST
E	ELECTRIC
EX	EXISTING
FD	FOUNDATION DRAIN
FFE	FINISHED FLOOR ELEVATION
FT	FEET
G	GAS
GAL	GALLON
GM	GAS METER
GTD	GRADE TO DRAIN
GV	GATE VALVE
IN	INCH
INV	INVERT
L	LENGTH
LF	LINEAR FOOT
MH	MANHOLE
MHT	MEAN HIGH TIDE
MHW	MEAN HIGH WATER
MIN	MINIMUM
MLT	MEAN LOW TIDE
MLW	MEAN LOW WATER
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
O/H	OVERHEAD
OW	OBSERVATION WELL
PC	POINT OF CURVATURE
PROP	PROPOSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PV	PLUG VALVE
R	RADIUS
RD	ROOF DRAIN
RED	REDUCER
S	SLOPE
S	SOUTH
SAN	SANITARY
SS	STAINLESS STEEL
STM	STORM
T	TANGENT
TBFD	TO BE FIELD DETERMINED
TF	TOP OF FRAME
TP	TEST PIT
TYP	TYPICAL
UG	UNDERGROUND
W	WATER
W	WEST
WF	WETLAND FLAG
WM	WATER METER

CIVIL YARD PIPING ABBREVIATIONS

AE	AERATION TANK EFFLUENT
ANE	ANOXIC TANK EFFLUENT
ANI	ANOXIC TANK INFLUENT
ATA	AERATION TANK AIR SUPPLY
BP	BY-PASS (PLANT - EXISTING)
BP	BYPASS (PRIMARY TREATMENT - NEW)
CRS	CHLORINE RESIDUAL SAMPLE
CS	CHLORINE SOLUTION
CW	COLD WATER (POTABLE)
FL	FILTRATE
FS	FROTH SPRAY - EXISTING (PLANT WATER-NEW)
G	NATURAL GAS
GR	GRIT
GTO	GRAVITY THICKENER OVERFLOW
HYD	HYDRAULIC OIL
IR	INTERNAL RECYCLE
MET	METHANOL
O	OVERFLOW
OC	ODOR CONTROL
PD	PLANT DRAIN (PROCESS DRAIN)
PE	PLANT EFFLUENT
PS	PRIMARY SLUDGE
PSD	PUMP STATION DISCHARGE
PTE	PRIMARY TANK EFFLUENT
PW	PLANT WATER
RAS	RETURN ACTIVATED SLUDGE
RD	ROOF DRAIN
RWW	RAW WASTEWATER
SA	SAMPLE LINE
SC	SCUM
SL	SLUDGE (EXISTING)
STM	STORM DRAINAGE
SW	SEAL WATER (PROTECTED WATER)
TKD	TANK DRAIN
TPS	THICKENED PRIMARY SLUDGE
TS	THICKENED SLUDGE
TWAS	THICKENED WASTE ACTIVATED SLUDGE
V	VENT
WAS	WASTE ACTIVATED SLUDGE
YH	YARD HYDRANT

CIVIL PIPING MATERIALS

ABCMP	ASBESTOS BONDED CORRUGATED METAL PIPE
AC	ASBESTOS CEMENT
CI	CAST IRON
CLDIP	CEMENT LINED DUCTILE IRON PIPE
CMP	CORRUGATED METAL PIPE
CPVC	CHLORINATED POLYVINYL CHLORIDE PIPE
CU	COPPER
DI	DUCTILE IRON
FRP	FIBER REINFORCED PLASTIC
GS	GALVANIZED STEEL (HOT DIPPED)
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PE	POLYETHYLENE
PP	POLYPROPYLENE
PVC	POLY VINYL CHLORIDE
PWHDPE	PROFILE WALL HIGH DENSITY POLYETHYLENE
RCP	REINFORCED CONCRETE PIPE
SS	STAINLESS STEEL
STL	BLACK STEEL OR CARBON STEEL

SYMBOL LEGEND

EXISTING	DESCRIPTION	PROPOSED
W	WATER	W
G	GAS	G
TEL	TELECOMMUNICATION	T
	SANITARY SEWER	
	STORM SEWER	
O/H	OVERHEAD LINE	O/H
	CURB	
	WALL	
110	MAJOR CONTOUR	110
108	MINOR CONTOUR	108
WF #8	WETLAND	
	PROPERTY LINE	
	TREE LINE	
	FENCE	
	UTILITY POLE	
	LIGHT POLE	
	YARD HYDRANT	
WG	WATER GATE	
GM	GAS METER	GM
WM	WATER METER	
	TREE	
BH-108	BORING	
BH-222 OW	OBSERVATION WELL	
108.5	SPOT ELEVATION	108x85
	CATCH BASIN	
	SIGN	
	PROCESS PIPE	
	UNDERDRAIN	
	DEMOLITION	
	NEW WORK	
	FIRE HYDRANT	
	MANHOLE	
	SURVEY CONTROL POINT	
	FLOW ARROW	
	VISUAL / SOUND BARRIER	
	BIT. CONC. PAVEMENT	
	PAVMENT MARKING	
	EDGE OF PAVEMENT	
	CENTERLINE / BASELINE	
	MATCHLINE	
	CONSTRUCTION LIMIT	
	SILT FENCE	
	HAYBALE	
	BOLLARD	
	ELECTRIC	E
	STORM DRAINAGE PIPE	

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTDT001.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

CDM consulting engineering construction operations — Camp Dresser & McKee Inc.

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4200 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

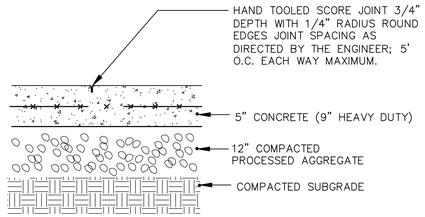
WATER POLLUTION CONTROL FACILITY UPGRADE

CIVIL / SITE LEGEND NOTES AND ABBREVIATIONS AS BUILT

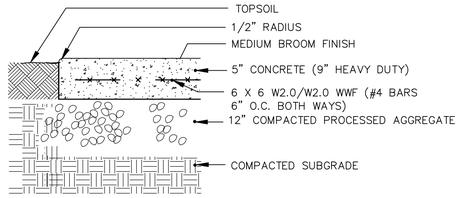
PROJECT NO. 25472-41255

C-1

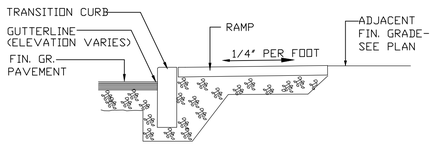
ACCESSION NO. 25472-68734



SCORE JOINT



SECTION

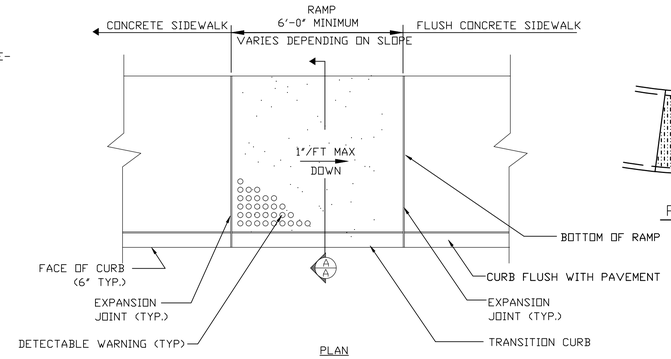


SECTION A-A

NOTE:

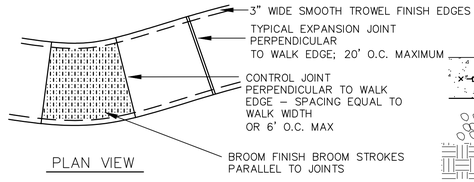
Detectable warnings shall consist of raised truncated domes with a diameter of nominal 0.9 in , a height of nominal 0.2 in and a center-to-center spacing of nominal 2.35 in and shall contrast visually with adjoining surfaces, either light-on-dark, or dark-on-light.

The material used to provide contrast shall be an integral part of the walking surface.

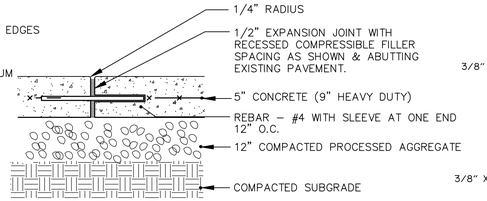


PLAN

SIDEWALK RAMP-TYPE B



PLAN VIEW



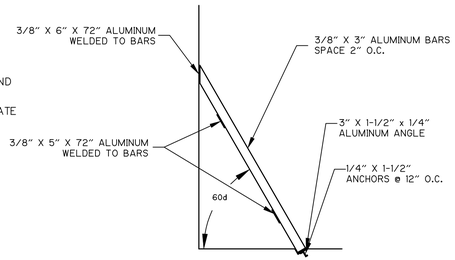
EXPANSION JOINT

NOTE:
PARENTHESIS REFER TO HEAVY DUTY CONCRETE SIDEWALK @ DRIVEWAYS & FIRELANES

CONCRETE SIDEWALK

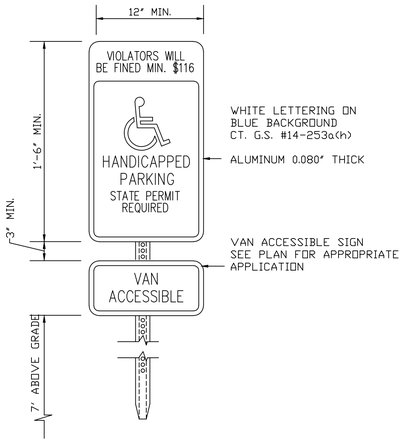
CONCRETE SIDEWALK AND RAMP DETAILS

A DETAIL
NTS



ALUMINUM BAR SCREEN

DETAIL B
NTS



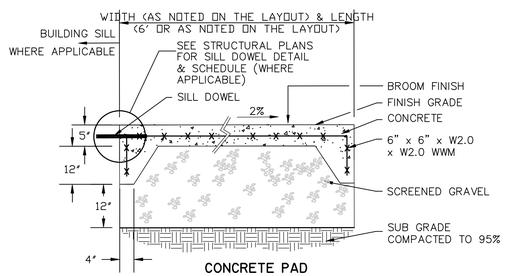
HANDICAPPED PARKING SIGN

NOTES:
SUPPORTS-SEE STD. SHEET-"TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS" PREPARED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION; BUREAU OF HIGHWAYS; DIVISION OF TRAFFIC

SUPPORTS-WT/FT 3 LB (UNLESS OTHERWISE NOTED)

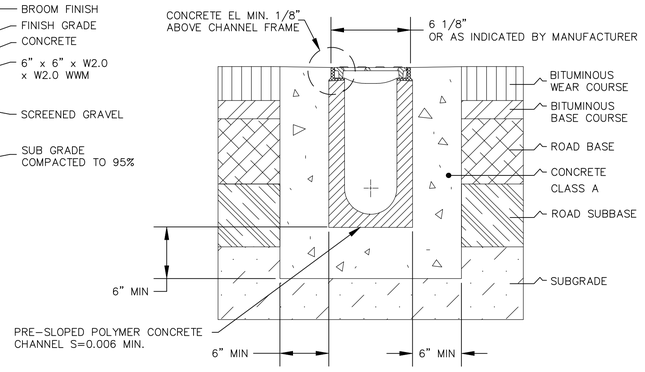
SIGN DETAILS

DETAIL C
NTS



CONCRETE PAD

D DETAIL
NTS



POLYMER CONCRETE, CHANNEL DRAINAGE SYSTEM

E DETAIL
NTS

PRECAST CONCRETE NOTES:

1. ALL PRECAST STRUCTURES TO MEET H-20 LOADING REQUIREMENTS

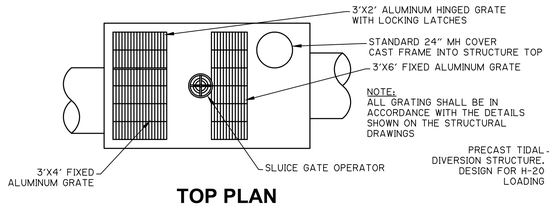
2. SHOP DRAWINGS SHOWING REINFORCING DETAILS, AND STRUCTURAL COMPUTATIONS TO BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

3. STRUCTURAL COMPUTATIONS MUST INCLUDE BUOYANCY COMPUTATIONS ASSUMING GROUNDWATER ELEVATION EQUAL TO FINISHED GRADE.

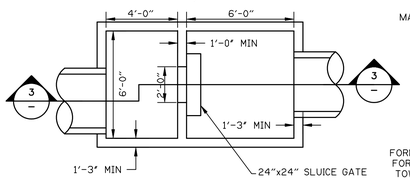
4. HOLES SUCH AS PIPE PENETRATIONS AND PICK POINTS MUST BE FILLED WITH NON-SHRINK GROUT.

5. JOINTS BETWEEN SECTIONS MUST BE SEALED WITH A BUTYL RUBBER TYPE SEAL.

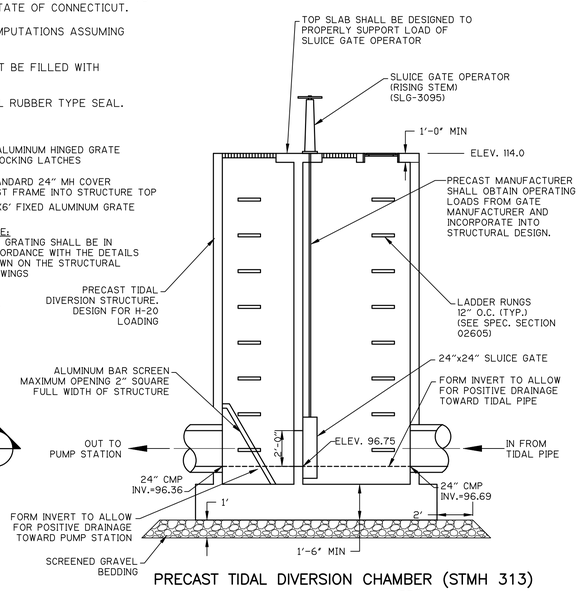
6. CONCRETE COMPRESSIVE STRENGTH 4,000 PSI AT 28 DAYS



TOP PLAN
1/4"=1'-0"



LOWER PLAN ELEV=98.0
1/4"=1'-0"



PRECAST TIDAL DIVERSION CHAMBER (STMH 313)

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

PRECAST CONCRETE TIDAL DIVERSION CHAMBER

DETAIL F
NTS

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTDT005.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

CDM Camp Dresser & McKee Inc.
consulting engineering construction operations

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4200 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

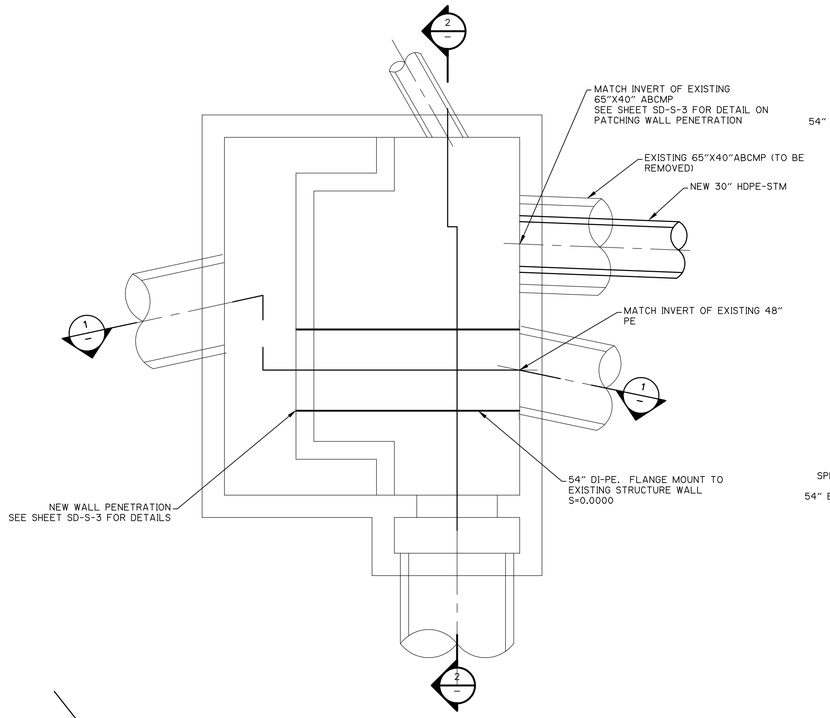
WATER POLLUTION CONTROL FACILITY UPGRADE

CIVIL DETAILS IV
AS BUILT

PROJECT NO. 25472-41255

C-5

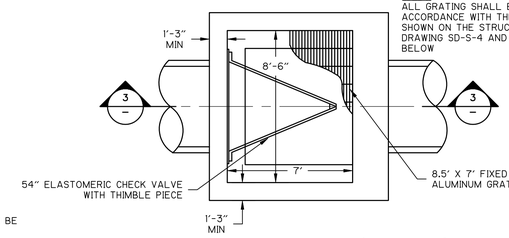
ACCESSION NO. 25472-68738



DIVERSION CHAMBER B

PLAN

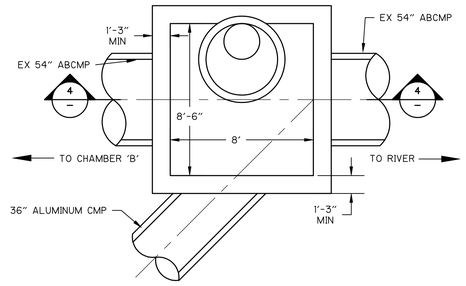
1/4" = 1'-0"



CHECK VALVE CHAMBER TOP (STMH 311)

PLAN

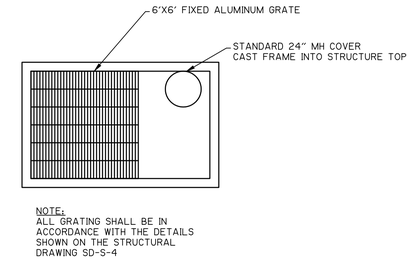
1/4" = 1'-0"



JUNCTION CHAMBER TOP (STMH 301)

PLAN

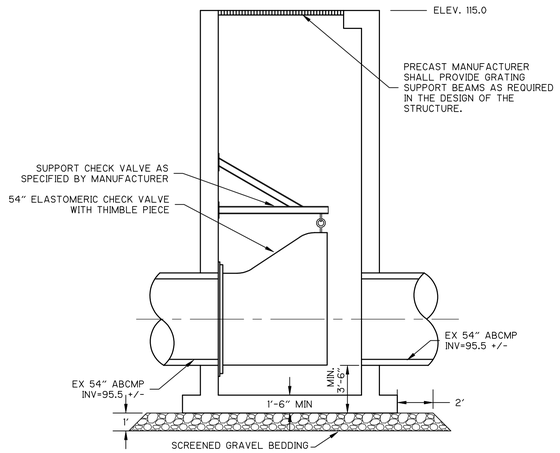
1/4" = 1'-0"



TIDAL INLET CHAMBER TOP (STMH 302)

PLAN

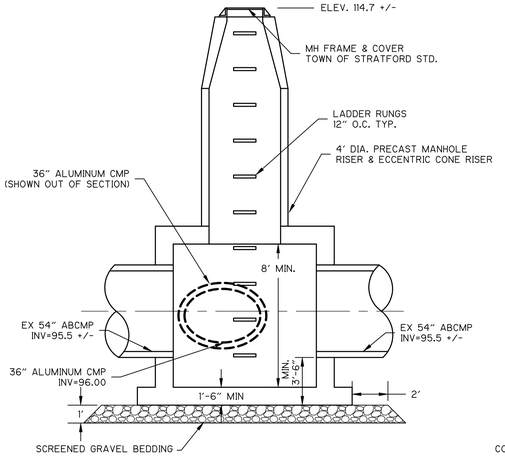
1/4" = 1'-0"



PRECAST CONCRETE CHECK VALVE CHAMBER (STMH 311)

SECTION 3

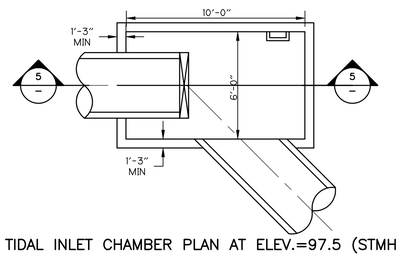
1/4" = 1'-0"



PRECAST CONCRETE JUNCTION CHAMBER (STMH 301)

SECTION 4

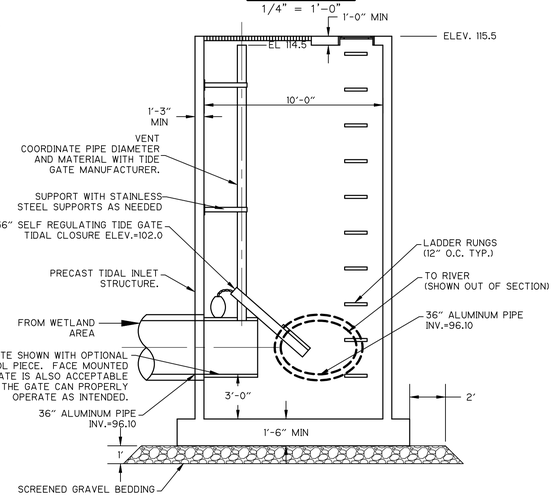
1/4" = 1'-0"



TIDAL INLET CHAMBER PLAN AT ELEV.=97.5 (STMH 302)

PLAN

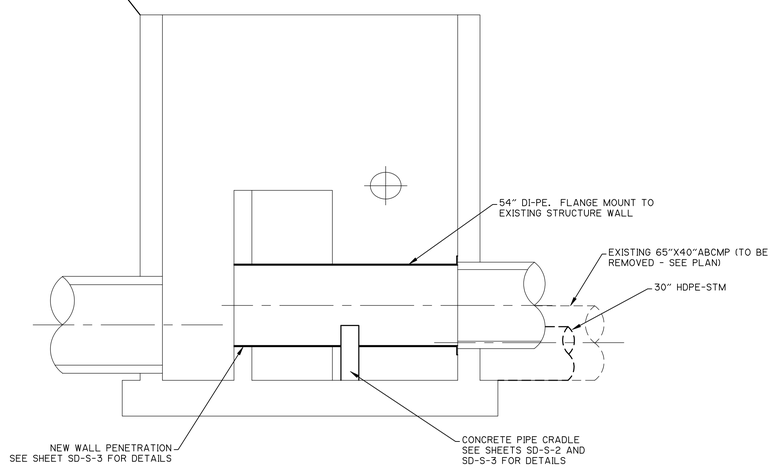
1/4" = 1'-0"



PRECAST CONCRETE TIDAL INLET CHAMBER (STMH 302)

SECTION 5

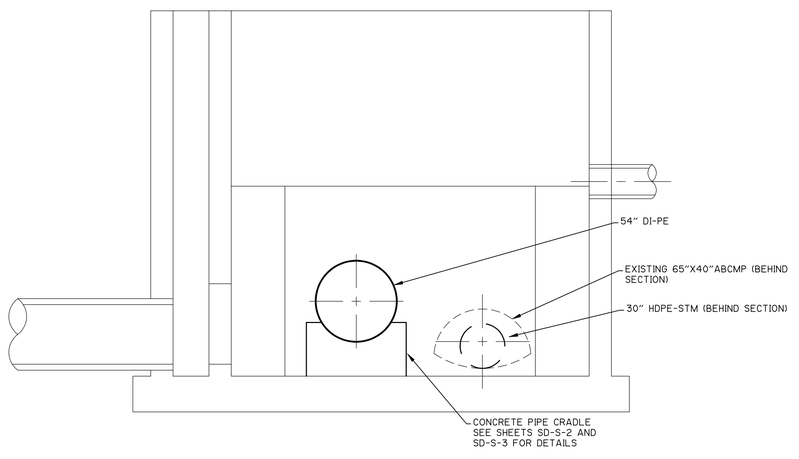
1/4" = 1'-0"



DIVERSION CHAMBER B

SECTION 1

1/4" = 1'-0"



DIVERSION CHAMBER B

SECTION 2

1/4" = 1'-0"

PRECAST CONCRETE NOTES:

1. ALL PRECAST STRUCTURES TO MEET H-20 LOADING REQUIREMENTS

2. SHOP DRAWINGS SHOWING REINFORCING DETAILS, AND STRUCTURAL COMPUTATIONS TO BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

3. STRUCTURAL COMPUTATIONS MUST INCLUDE BUOYANCY COMPUTATIONS ASSUMING GROUNDWATER ELEVATION EQUAL TO FINISHED GRADE.

4. HOLES SUCH AS PIPE PENETRATIONS AND PICK POINTS MUST BE FILLED WITH NON-SHRINK GROUT.

5. JOINTS BETWEEN SECTIONS MUST BE SEALED WITH A BUTYL RUBBER TYPE SEAL.

6. CONCRETE COMPRESSIVE STRENGTH 4,000 PSI AT 28 DAYS

7. MANHOLE AND CONCRETE STRUCTURES SUBJECTED TO TIDAL FLOWS SHALL BE COATED WITH APPROVED CONCRETE SEALER.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTDT006.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

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DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4200 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

CIVIL DETAILS V

AS BUILT

PROJECT NO. 25472-41255

C-6

ACCESSION NO. 25472-68739

REV. NO.	DATE	DRWN	CHKD	REMARKS

CADD FILE NO: CSTPL001.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY:
DATE: MARCH 2006

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TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

EXISTING CONDITIONS

PROJECT NO. 25472–41255

C-7

ACCESSION NO. 25472–68740

Wf.#1
Wf.#6
Wf.#7
Wf.#8
Wf.#9
Wf.#10
Wf.#11
Wf.#12
Wf.#13
Wf.#14
Wf.#15
Wf.#16
Wf.#17
Wf.#18
Wf.#19

Pond

4' WIDE DREDGED CHANNEL WITH RIP-RAP LINING. SEE SHEETS C-27 AND C-29 FOR DETAILS

HEAD WALL 310 PRECAST CONCRETE HEADWALL & WINGWALLS

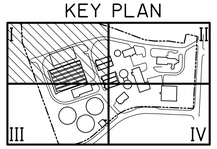
100 FT WETLAND BUFFER

EX CB 105
EX PIPE 105
PIPE 109
CB 109
PIPE 110
CB 110
NEW SODA ASH FEED SYSTEM
NEW HUMIDIFICATION TOWER
NEW BIOFILTER
EX GALLERY 110x80 +/-
NEW ANOXIC TANKS
EX CB 106
EX PIPE 106
EX PIPE 107
EX CB 107
EX PIPE 108
EX CB 108
TF 109.50
METHANOL FACILITIES
Aeration Tanks
Dirt Pile
STMH 309
PIPE 310

Grass
Stone

NOTE:
REFER TO SITE STORM DRAINAGE SCHEDULE ON SHEET C-20

KEY PLAN



MATCH LINE - SEE SHEET C-19
MATCH LINE - SEE SHEET C-18

RECORD DRAWING

1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTPL011.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

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TEL. 203.239.4200 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

GRADING & DRAINAGE PLAN I
AS BUILT

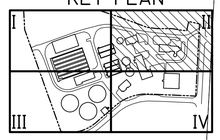
PROJECT NO. 25472-41255

C-17

ACCESSION NO. 25472-68750

NOTE:
REFER TO SITE STORM DRAINAGE SCHEDULE ON SHEET C-20

KEY PLAN



PATCH EXISTING PIPE 111 PENETRATIONS. REFER TO SCHEDULE FOR NEW PIPE 111

EX PIPE 105

EX CB 11

PIPE 111

EX CB 104

EX 4" RD TO REMAIN DISCHARGE LOCATION UNKNOWN

EX CB 117

PIPE 104

EX CHAMBER 103

Diversion Chamber C

Sluice Gate

EX CB 112

PIPE 113

CB 113

EX PIPE 112

TF=110.15

PIPE 103

STMH 102

EX PIPE 116

PIPE 102

EX PIPE 127

EX CB 127

Bypass Valve Chamber

Garage
FF=109.03

Raw Sewage Pumping Station & Inlet Works
FF=114.47

Wood Garage

Sludge Thickener

Thickening Building
FF=114.36

TF'S 109.50

EX PIPE 117

PIPE 118

CB 118

CB 116

EX PIPE 119

EX CB 119

NEW SLUDGE HOLDING TANKS

6" STM-HDPE INV 106.50

CB CHANGED TO FLAT TOP

STMH 101

6" STM-HDPE MATCH EX 4" STM INV

EX PIPE 120

EX CB 120

6" STM-HDPE MATCH EX 4" STM INV

EX PIPE 121

EX CB 121

Maintenance Building

NEW LOAD BANK

NEW EMERGENCY GENERATOR
FF=114.49

Tank #3

Tank #2

Old Utility Post

15" RCP Stub (Vertical)

Grass

RWW

MATCH LINE - SEE SHEET C-17

MATCH LINE - SEE SHEET C-19

MATCH LINE - SEE SHEET C-20

RECORD DRAWING

1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTPL012.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

CDM Camp Dresser & McKee Inc.
consulting engineering construction operations

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4290 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

GRADING & DRAINAGE PLAN II
AS BUILT

PROJECT NO. 25472-41255

C-18

ACCESSION NO. 25472-68751

MATCH LINE - SEE SHEET C-17

MATCH LINE - SEE SHEET C-17

MATCH LINE - SEE SHEET C-20

Blower Building &
Return Pumping Station

FF = 114.45

NEW SUBSTATION

NEW AE DISTRIBUTION BOX (SEE STRUCTURAL DRAWINGS)

STONE

EX 6" STM-HDPE
INV 106.50

6" STM-HDPE
INV 105.55

EX CB 205

EX CB 206
109x33

EX PIPE 205

EX PIPE 206

PIPE 207

CB 204

CB 209

PIPE 209

PIPE 208

Secondary Settling Tank

SECONDARY CLARIFIER NO. 1

Secondary Settling Tank

SECONDARY CLARIFIER NO. 2

NEW SECONDARY CLARIFIER NO. 3

CRUSHED
STONE

Manhole #4

SEE SHEET EP-M-2 FOR
PIPE MATERIAL TRANSITION
AND PENETRATION

RESET TF

TOC
109x00

UV DISINFECTION
TOC
108x50

TF
108x00

STMH 313
TIDAL DIVERSION STRUCTURE
(SEE DETAIL ON C-5)

Distribution
Box

FF = 113.60

Existing
Pumping
Station &
Wet Well

PIPE 314

PIPE 315

Grass

Dirt Pile

Vent

Elec.
Box

PIPE 309

PIPE 305

PIPE 306

PIPE 307

STMH 306
N 625484.93
E 896825.01

STMH 307
N 625356.94
E 896807.47

STMH 308
N 625599.14
E 896762.94

MATCH LINE - THIS SHEET

MATCH LINE - THIS SHEET

NOTE:
REFER TO SITE STORM DRAINAGE SCHEDULE ON SHEET C-20

KEY PLAN

I II III IV

MATCH LINE - SEE SHEET C-20

RECORD DRAWING

1" = 20'
10 0 20

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTPL013.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

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556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4200 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

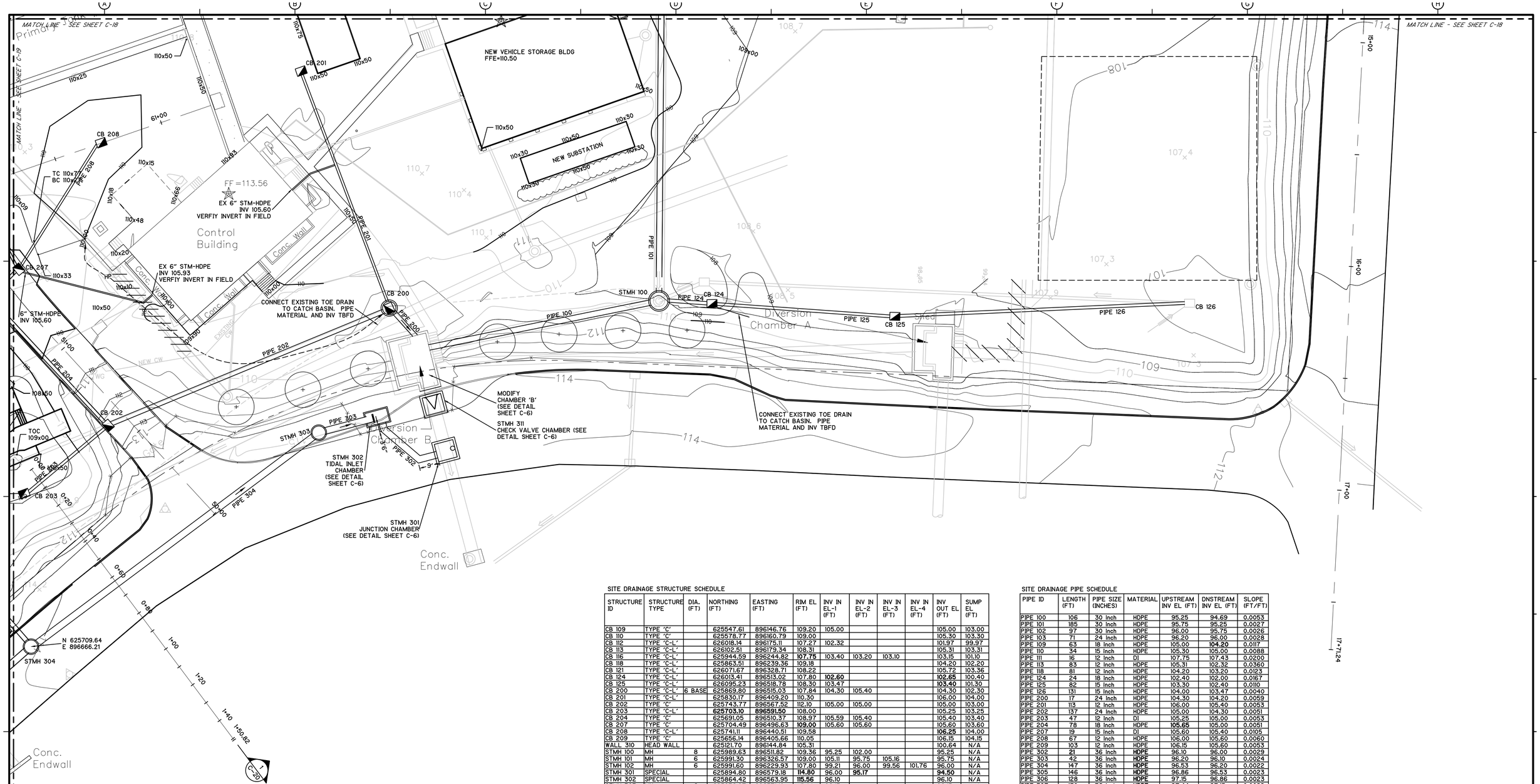
WATER POLLUTION CONTROL FACILITY
UPGRADE

GRADING & DRAINAGE PLAN III
AS BUILT

PROJECT NO.
25472-41255

C-19

ACCESSION NO. 25472-68752



SITE DRAINAGE STRUCTURE SCHEDULE

STRUCTURE ID	STRUCTURE TYPE	DIA. (FT)	NORTHING (FT)	EASTING (FT)	RIM EL (FT)	INV IN EL-1 (FT)	INV IN EL-2 (FT)	INV IN EL-3 (FT)	INV IN EL-4 (FT)	INV OUT EL (FT)	SUMP EL (FT)
CB 109	TYPE 'C'		625547.61	896146.76	109.20	105.00				105.00	103.00
CB 110	TYPE 'C'		625578.77	896160.79	109.00					105.30	103.30
CB 112	TYPE 'C-L'		626018.14	896175.11	107.27	102.32				101.97	99.97
CB 113	TYPE 'C-L'		626102.51	896179.34	108.31					105.31	103.31
CB 116	TYPE 'C-L'		625944.59	896244.82	**107.75**	103.40	103.20	103.10		103.15	101.10
CB 118	TYPE 'C-L'		625863.51	896239.36	109.18					104.20	102.20
CB 121	TYPE 'C-L'		626071.67	896328.71	108.22					105.72	103.36
CB 124	TYPE 'C-L'		626013.41	896513.02	107.80	**102.60**				**102.65**	100.40
CB 125	TYPE 'C-L'		626095.23	896518.78	108.30	103.47				**103.40**	101.30
CB 200	TYPE 'C-L'	6 BASE	625869.80	896515.03	107.84	104.30	105.40			104.30	102.30
CB 201	TYPE 'C-L'		625830.17	896409.20	110.30					106.00	104.00
CB 202	TYPE 'C'		625743.77	896567.52	112.10	105.00	105.00			105.00	103.00
CB 203	TYPE 'C-L'		**625703.10**	**896591.50**	108.00					105.25	103.25
CB 204	TYPE 'C'		625691.05	896510.37	108.97	105.59	105.40			105.40	103.40
CB 207	TYPE 'C'		625704.49	896496.63	**109.00**	105.60	105.60			105.60	103.60
CB 208	TYPE 'C-L'		625741.11	896440.51	109.58					**106.25**	104.00
CB 209	TYPE 'C'		625656.14	896405.66	110.05					106.15	104.15
WALL 310	HEAD WALL		625121.70	896144.84	105.31					100.64	N/A
STMH 100	MH	8	625989.63	896511.82	109.36	95.25	102.00			95.25	N/A
STMH 101	MH	6	625991.30	896326.57	109.00	105.11	95.75	105.16		95.75	N/A
STMH 102	MH	6	625991.60	896229.93	107.80	99.21	96.00	99.56	101.76	96.00	N/A
STMH 301	SPECIAL		625894.80	896579.18	**114.80**	96.00	**95.17**			**94.50**	N/A
STMH 302	SPECIAL		625864.42	896563.95	**115.56**	96.10				96.10	N/A
STMH 303	MH	6	**625836.97**	**896571.10**	115.00	**96.15**				**96.15**	N/A
STMH 304	MH	6	**625709.64**	**896666.21**	114.10	96.53	96.53			96.53	N/A
STMH 305	MH	6	**625599.14**	**896762.94**	113.30	96.86				96.86	N/A
STMH 306	MH	6	**625484.93**	**896825.01**	111.85	97.15				97.15	N/A
STMH 307	MH	6	**625356.94**	**896807.47**	112.00	97.44				97.44	N/A
STMH 308	MH	6	625271.17	896566.69	110.80	98.00				98.00	N/A
STMH 309	MH	6	625187.22	896331.10	110.80	98.56				98.56	N/A
STMH 311	SPECIAL		625889.41	896558.25	**115.00**	**95.33**				**95.25**	N/A
STMH 313	SPECIAL		625690.38	896643.73	114.00	96.36				96.69	N/A

SITE DRAINAGE PIPE SCHEDULE

PIPE ID	LENGTH (FT)	PIPE SIZE (INCHES)	MATERIAL	UPSTREAM INV EL (FT)	DNSTREAM INV EL (FT)	SLOPE (FT/FT)
PIPE 100	106	30 Inch	HDPE	95.25	94.69	0.0053
PIPE 101	185	30 Inch	HDPE	95.75	95.25	0.0027
PIPE 102	97	30 Inch	HDPE	96.00	95.75	0.0026
PIPE 103	71	24 Inch	HDPE	96.20	96.00	0.0028
PIPE 109	63	18 Inch	HDPE	105.00	**104.20**	0.0117
PIPE 110	34	15 Inch	HDPE	105.30	105.00	0.0088
PIPE 111	16	12 Inch	DI	107.75	107.43	0.0200
PIPE 113	83	12 Inch	HDPE	105.31	102.32	0.0360
PIPE 118	81	12 Inch	HDPE	104.20	103.20	0.0123
PIPE 124	24	18 Inch	HDPE	102.40	102.00	0.0167
PIPE 125	82	15 Inch	HDPE	103.30	102.40	0.0110
PIPE 126	131	15 Inch	HDPE	104.00	103.47	0.0040
PIPE 200	17	24 Inch	HDPE	104.30	104.20	0.0059
PIPE 201	113	12 Inch	HDPE	106.00	105.40	0.0053
PIPE 202	137	24 Inch	HDPE	105.00	104.30	0.0051
PIPE 203	47	12 Inch	DI	105.25	105.00	0.0053
PIPE 204	78	18 Inch	HDPE	**105.65**	105.00	0.0051
PIPE 207	19	15 Inch	DI	105.60	105.40	0.0105
PIPE 208	67	12 Inch	HDPE	106.00	105.60	0.0060
PIPE 209	103	12 Inch	HDPE	106.15	105.60	0.0053
PIPE 302	21	36 Inch	**HDPE**	96.10	96.00	0.0029
PIPE 303	42	36 Inch	**HDPE**	96.20	96.10	0.0024
PIPE 304	147	36 Inch	**HDPE**	96.53	96.20	0.0022
PIPE 305	146	36 Inch	**HDPE**	96.86	96.53	0.0023
PIPE 306	128	36 Inch	**HDPE**	97.15	96.86	0.0023
PIPE 307	130	36 Inch	**HDPE**	97.44	97.15	0.0022
PIPE 308	250	36 Inch	**HDPE**	98.00	97.44	0.0022
PIPE 309	250	36 Inch	**HDPE**	98.56	98.00	0.0022
PIPE 310	197	36 Inch	**HDPE**	100.64	98.56	0.0106
PIPE 313	25	24 Inch	**HDPE**	96.69	96.53	0.0064
PIPE 314	13	24 Inch	**DI / HDPE**	96.36	96.36	0.0000

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTPL014.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

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consulting engineering construction operations

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4395 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

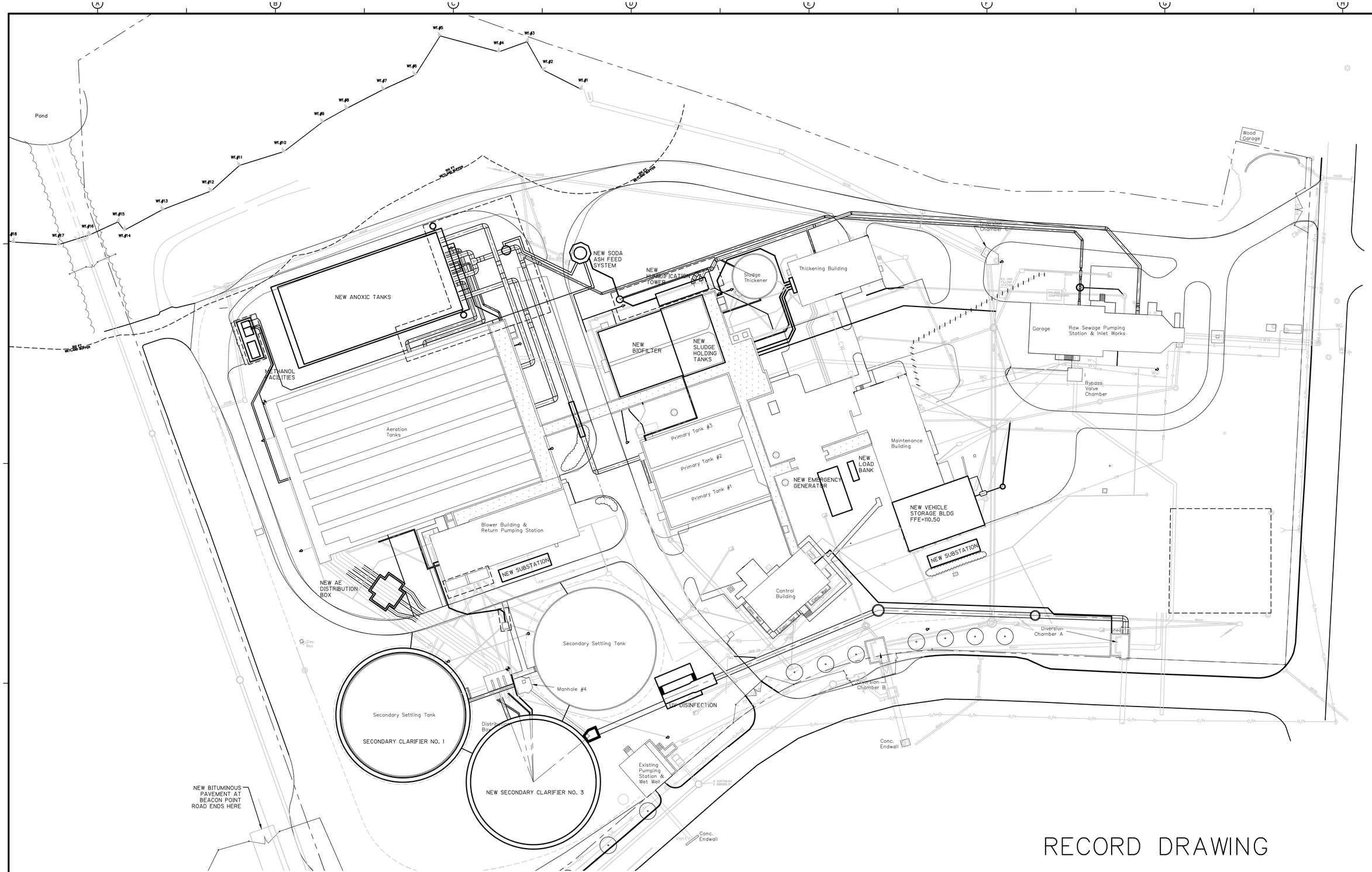
WATER POLLUTION CONTROL FACILITY UPGRADE

GRADING & DRAINAGE PLAN IV
AS BUILT

PROJECT NO. 25472-41255

C-20

ACCESSION NO. 25472-68753



REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTPL015.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

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consulting engineering construction operations

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4200 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

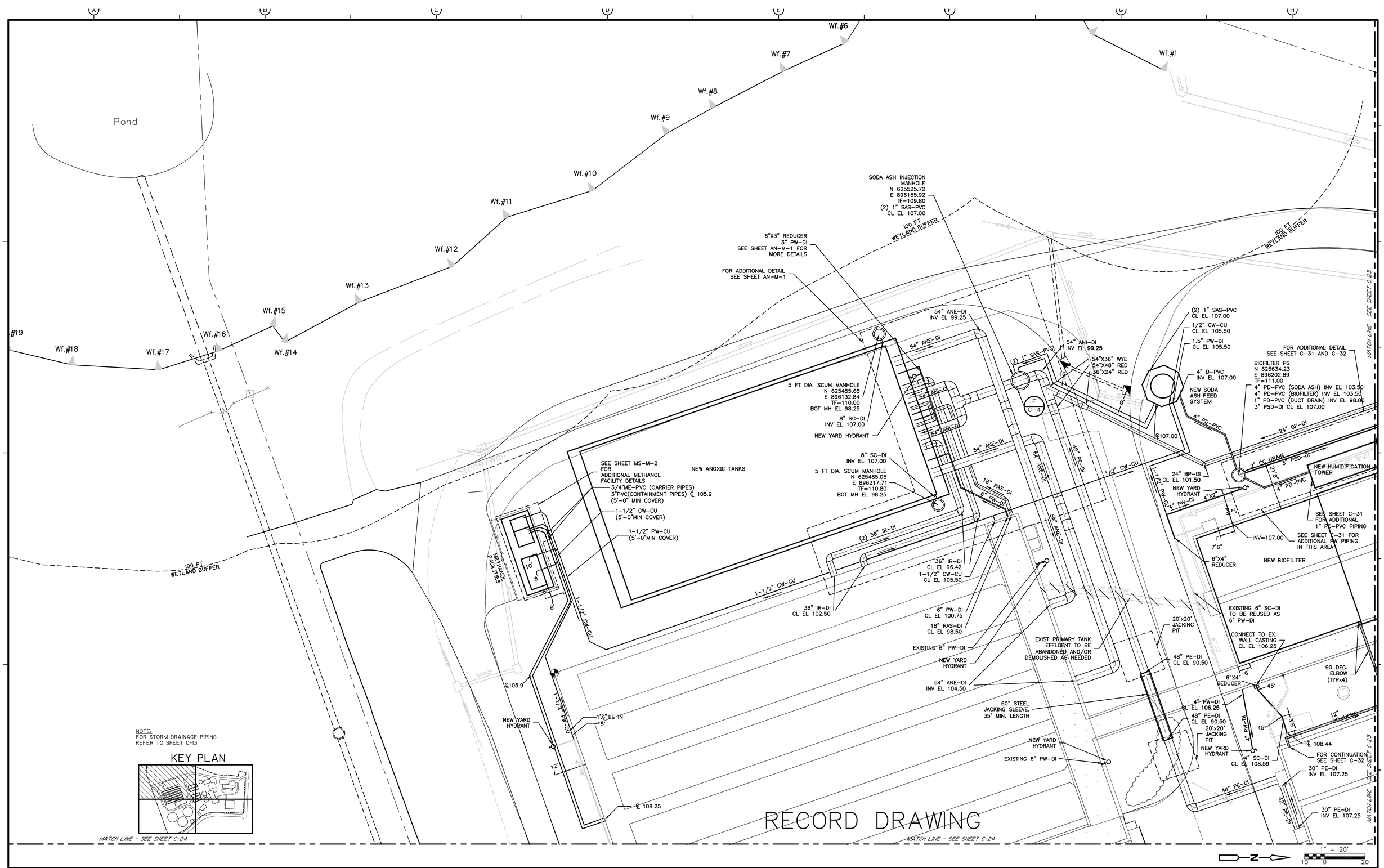
WATER POLLUTION CONTROL FACILITY UPGRADE

OVERALL YARD PIPING PLAN AS BUILT

PROJECT NO. 25472-41255

C-21

ACCESSION NO. 25472-68754



NOTE:
FOR STORM DRAINAGE PIPING
REFER TO SHEET C-13

KEY PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTPL016.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

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consulting engineering construction operations

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4200 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

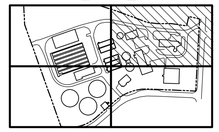
YARD PIPING PLAN I
AS BUILT

PROJECT NO. 25472-41255

C-22

ACCESSION NO. 25472-58755

KEY PLAN



NOTE:
FOR STORM DRAINAGE PIPING
REFER TO SHEET C-14

NOTES:

1. A 24-INCH MAGNETIC FLOWMETER (FE 410) SHALL BE INSTALLED IN A 6-FOOT DIAMETER PRECAST MANHOLE. PIPE SHOULD BE ADEQUATELY SUPPORTED OFF OF THE MANHOLE BASE. TRANSMITTER (DETAILED ON DRAWING I-2) SHALL BE MOUNTED OUTSIDE THE ELECTRIC ROOM IN THE HEADWORKS BUILDING (SEE SHEET HD-E-3).

2. PROVIDE 1" PVC DRAIN FROM LOW POINT OF 42" OC-PWHDPE TO SUBMERSIBLE PUMP STATION. SLOPE CONTINUOUSLY TO PUMP STATION. SEE ALSO SHEET C-33.

EX 4" RD TO REMAIN DISCHARGE LOCATION UNKNOWN
24" STORM TO REMAIN IN SERVICE. PROTECT / REPLACE IN KIND AS NECESSARY
VERIFY LOCATION AND INVERT OF EXISTING 24" STORM WITH A TEST PIT PRIOR TO CONSTRUCTION
VERIFY LOCATION AND INVERT OF EXISTING 8" PD WITH A TEST PIT PRIOR TO CONSTRUCTION
VERIFY LOCATION AND INVERT OF EXISTING 54" STORM WITH A TEST PIT PRIOR TO CONSTRUCTION
24" BP-DI CL EL 97.50
42"X36" RED
36" OC-PWHDPE INV EL 103.62
36" OC-PWHDPE INV EL 103.81
36" OC-PWHDPE INV EL 104.28
MATCH LINE - SEE SHEET C-22
FOR PIPING DETAILS IN THIS AREA SEE SHEET C-31 AND C-32
90 DEG. ELBOW UP INV EL=100.75 (SEE NOTE 2)
ABANDON AND/OR DEMOLISH TO FACILITATE CONSTRUCTION
42"X42"X12" WYE
8" TS-DI CL EL 108.17
INV=104.50
24" BP-DI
42" OC-PWHDPE
42"X42"X18" TEE INV EL=102.75
18" OC-PWHDPE
24" BP-DI CL EL 102.75
24" BP-DI CL EL 102.75
8" TS-DI CL EL 104.67
EX 4" RD TO REMAIN DISCHARGE LOCATION UNKNOWN
2-90 DEG. ELBOW INV EL 104.50 COORDINATE WALL PENETRATION CL EL WITH HVAC PLANS
4" D-PVC CONNECT DRAIN TO BOTTOM OF CHANNEL INV=104.50
SAN MH RESET TF TF=109.50
NEW YARD HYDRANT
BYPASS METER VAULT 6' DIA. MH N 626074.08 E 896191.49 TF=109.60
18" BP-DI CL EL 102.75
4" D-PVC INV EL 101.50 (SEE NOTE 1)
24" BURIED PLUG VALVE PROVIDE VALVE BOX
24"X18" RED
INSERTED IN OLD 4" D-PVC
4" D-PVC INV EL 101.00
8' COVER HERE
12" OC-HDPE 90 DEG. ELBOW UP
45° DOWN @ 108.17
NEW YARD HYDRANT
EX 8" PD TO REMAIN IN SERVICE
8" TS-DI CL EL 104.67
10" WAS-DI CL EL 104.67
8" TWAS-DI CL EL 104.67
8" TPS-DI CL EL 104.67
8" SL-DI CL EL 109.00
14" PS-DI CL EL 108.17
NEW HYDRANT
14"x12" REDUCER
2' TYP
3" PSD-DI
20 LF MODULAR CONCRETE CHANNEL TF=109.80 ENTIRE LENGTH
4" D-PVC INV=103.75
2" PLA. -60# GAS MAIN
3'-6" COVER
2" PLA. -60# GAS MAIN
8" TS-DI CL EL 108.17
EX 4" PW TO REMAIN IN SERVICE
EX 12" PS-DI CL EL/ 108.17
3" PSD-DI
SAN MH CL EL 107.00 TF
AB=111.00' 10" WAS-DI CL EL 103.50
8" TWAS-DI CL EL 103.00
6" PW-DI CL EL 105.00
8" TPS-DI CL EL 103.00
6" PW-DI
ABANDON AND/OR DEMOLISH ENTIRE GAS LINE TO FACILITATE CONSTRUCTION
CONNECT TO EX 4" PW-DI
2" PLA.TEE
2" POLYVALVE #7211
1 1/4" GAS SERVICE #91417 TR#203430
24" BP-DI CL EL 102.75
12" PD INV EL=98.56
1 1/4" GAS SERVICE #197346 36" OC-HDPE 2-90 DEG. ELBOW INV EL 104.50 WALL PENETRATION CL EL 116.5
105' NTS
4" EF. CPLG
4"x2" PL REDUCER
2" PLA. -60# SLEEVED IN 4" PLA.
4" PLAS. 60#
NEW SLUDGE HOLDING TANKS
MAINTAIN EXISTING CONNECTION TO NATURAL GAS COMPRESSOR
EX 6" RD TO REMAIN
2 ½" PW-CU CL EL 104.00 (COORDINATE WITH HVAC PLANS)
GV INV=102.5
CUT AND CAP 4" PW
GAS METERS
CONNECT TO EX 4" PW-DI
18" PD INV EL 99.08
NEW YARD HYDRANT
2" PLA. CAP
2" PLA. -60#
HEATING LINE
6" RD REFER TO SHEET C-18
EX CW TO REMAIN
EX PD TO REMAIN
1 1/4" GAS SERVICE #197348
4" PW TO BE ABANDONED
EX PD TO REMAIN
PD MH RESET TF TF=108.53
8" PD-PVC INV EL 104.23
2" VENT SEE PLUMBING DRAWINGS
PD MH 4' DIA. MH N 626000.19 E 896381.79 TF=109.20 INV EL 105.33
8" SL ABANDON OR DEMOLISH TO FACILITATE CONSTRUCTION
CONCRETE PAD SEE SHEET SD-S-7
12" OC-HDPE 90 DEG. ELBOW
SUMP PUMP DISCHARGE SEE PC-P-1 AND PC-M-5 FIELD VERIFY FORCE MAIN LOCATION PRIOR TO CONSTRUCTION
NEW LOAD BANK
LOAD BANK
NEW EMERGENCY GENERATOR SEE ELECTRICAL SITE PLAN
NEW EMERGENCY GENERATOR
6" RD REFER TO SHEET C-18
MH TF=109.57 INV.=99.22 (W) INV.=99.37 (SW)
MATCH LINE - SEE SHEET C-25

NOTE:
GAS LINES AND ALL DIMENSIONING REGARDING THE LOCATION OF THE GAS LINES WERE TAKEN FROM A PLAN CREATED BY "SOUTHERN CONNECTICUT GAS CO." TITLED: #0-#50 BIRDSEYE ST. SHEET 2, DATED 10/30/2008.

RECORD DRAWING

1" = 20'

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTPL017.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

CDM Camp Dresser & McKee Inc.
consulting engineering construction operations

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4200 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

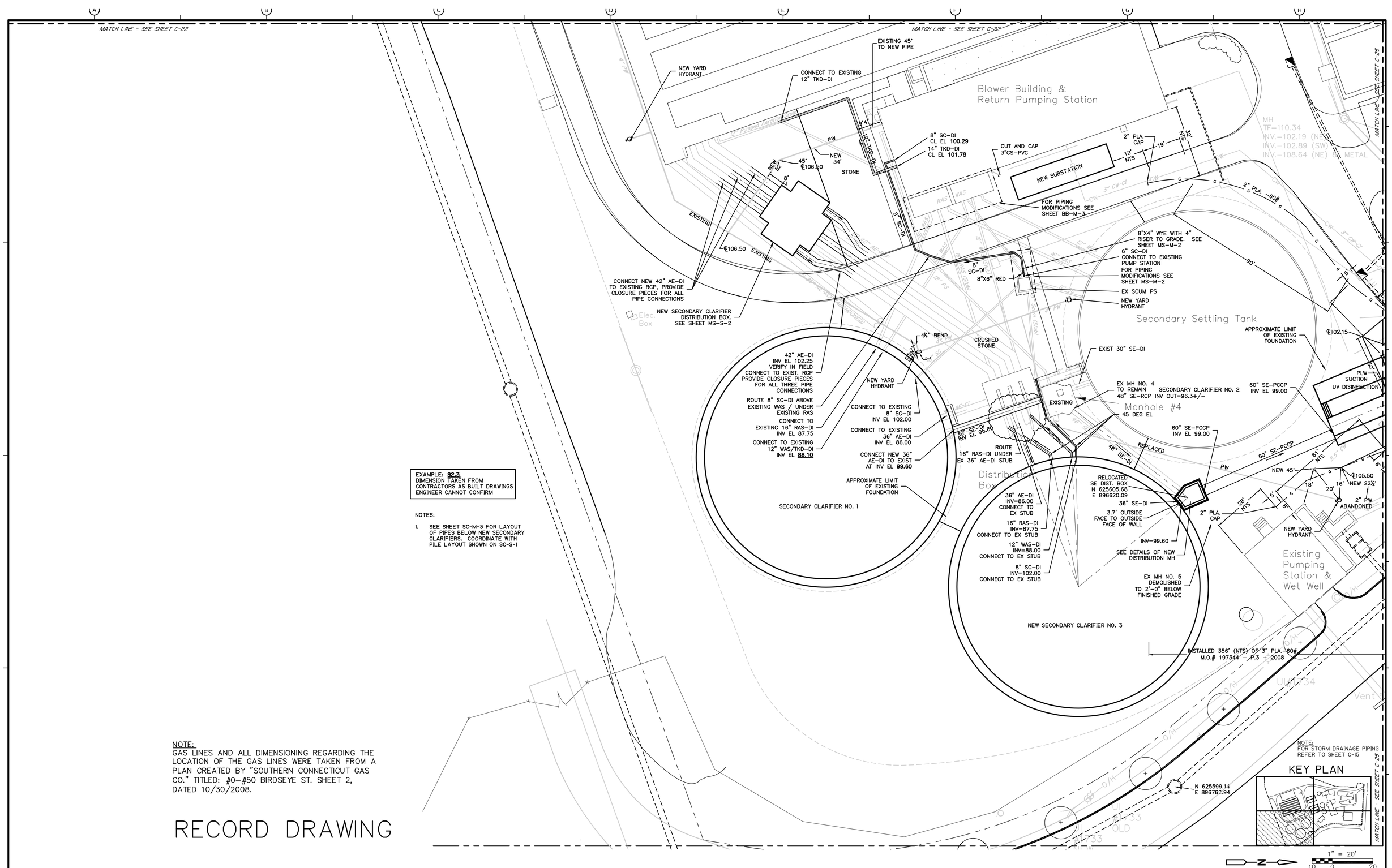
WATER POLLUTION CONTROL FACILITY UPGRADE

YARD PIPING PLAN II
AS BUILT

PROJECT NO. 25472-41255

C-23

ACCESSION NO. 25472-68756



EXAMPLE: **92.3**
DIMENSION TAKEN FROM CONTRACTORS AS BUILT DRAWINGS ENGINEER CANNOT CONFIRM

NOTES:

1. SEE SHEET SC-M-3 FOR LAYOUT OF PIPES BELOW NEW SECONDARY CLARIFIERS. COORDINATE WITH PILE LAYOUT SHOWN ON SC-S-1

NOTE:
GAS LINES AND ALL DIMENSIONING REGARDING THE LOCATION OF THE GAS LINES WERE TAKEN FROM A PLAN CREATED BY "SOUTHERN CONNECTICUT GAS CO." TITLED: #0-#50 BIRDSEYE ST. SHEET 2, DATED 10/30/2008.

RECORD DRAWING

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTPL01B.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

CDM Camp Dresser & McKee Inc.
consulting engineering construction operations

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4200 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

YARD PIPING PLAN III
AS BUILT

PROJECT NO. 25472-41255

C-24

ACCESSION NO. 25472-68757

MATCH LINE - SEE SHEET C-23

MATCH LINE - SEE SHEET C-24

6" PD-PVC
INV 106.50

NEW VEHICLE STORAGE BLDG
FFE=110.50

NEW SUBSTATION
SEE ELECTRICAL SITE PLAN

NEW SUBSTATION

OIL / WATER SEPARATOR
N 625981.50
E 896388.34
TF=109.76
INV IN EL 106.30
INV OUT EL 106.30
(REFER TO PLUMBING DWGS FOR DETAILS)

10' DIA. PW SUCTION MH
N 625881.27
E 896500.05
TF=110.00
(BOLTED COVER)
60" FE-PCCP
INV EL 99.00
12" PW-DI
INV EL **99.00**

1 1/4"
GAS SERVICE
#197342

6-5/8" HYD-SS
DBL WALL
CL EL 107.50

Control Building

Conc. Wall

Yard Hydrant

PLANT EFFLUENT
METER VAULT
8' DIA. MH
N 626031.19
E 896505.02
TF=110.00
(BOLTED COVER)
60" SE-PCCP
INV EL 98.75

4"X3"
REDUCER

SEE DIAGRAM
BELOW

6-5/8" HYD-SS

84'
NTS

Diversion Chamber A

60" PE-PCCP
INV EL 99.00

DURING DEMOLITION OF THE CCT, AN EXTENSION OF THE EXISTING CCT WAS DISCOVERED TO THE LIMITS SHOWN. THE TOP SLAB WAS DEMOLISHED, EXTERIOR WALLS WERE TAKEN DOWN TO 2'-0" BELOW GRADE AND FILLED IN WITH SURPLUS EXCAVATED MATERIAL

PW 8" DI
SEE UV MECH

2" PLA.-60#

60" FE-PCCP

NEW
45°

2"
POLYVALVE
#7283

RELOCATE
53" CW-DI

2"
PERM.
CPLG.

Diversion Chamber B

NEW YARD
HYDRANT

6-5/8" HYD-SS
DBL WALL
CL EL 107.50

ABANDON AND PLUG
EX 54" PE-PCCP

OUTFALL CHAMBER 'A'
SEE SHEET MS-M-1
FOR MODIFICATIONS

PIPE CROSSING IN
ACCORDANCE WITH
SECTION 01810

60" FE-PCCP
INV EL 106.25

2" PW
ABANDONED

EXISTING 39" BP CAPPED
AND REMOVED FROM THIS
POINT TO MH TO INSTALL
NEW 60" FE-PCCP

NEW OVERHEAD ELECTRIC SERVICE
REFER TO ELECTRICAL SITE PLANS
FOR DETAILS

UI #1736

UI #1737

UI #1738

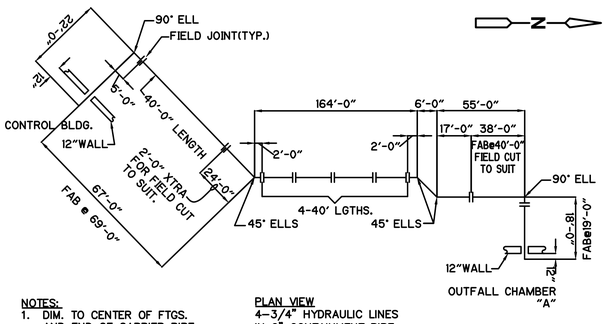
UI #1739
NEW

UI #1739
OLD

Conc.
Endwall

N 625709.64
E 896666.21

964' (NTS)
2" PLA.-60#-P.1-2008



NOTES:
1. DIM. TO CENTER OF FTGS. AND END OF CARRIER PIPE AT WALL PENETRATIONS.
2. INSTALLATION BEGINS @ CONTROL BLDG.

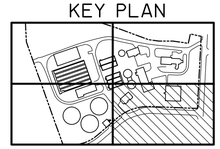
PLAN VIEW
4-3/4" HYDRAULIC LINES
IN 6" CONTAINMENT PIPE

DRAWN: BUBBA
DATE: 12.05.07

NOTE:
GAS LINES AND ALL DIMENSIONING REGARDING THE LOCATION OF THE GAS LINES WERE TAKEN FROM A PLAN CREATED BY "SOUTHERN CONNECTICUT GAS CO." TITLED: #0-#50 BIRDSEYE ST. SHEET 2, DATED 10/30/2008.

NOTE:
FOR STORM DRAINAGE PIPING
REFER TO SHEET C-16

KEY PLAN



RECORD DRAWING

1" = 20'
10 0 20

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/23/10		SPC	AS BUILT DRAWINGS REVISED AUGUST 23, 2010

CADD FILE NO: CSTPL019.DWG
DESIGNED BY: M.ERRICKSON
DRAWN BY: M.ERRICKSON
SHEET CHK'D BY: A.BEVILACQUA
CROSS CHK'D BY: M.HORNE
APPROVED BY: M.ATLURU
DATE: MARCH 2006

CDM Camp Dresser & McKee Inc.
consulting engineering construction operations

DIVERSIFIED TECHNOLOGY CONSULTANTS
556 WASHINGTON AVENUE NORTH HAVEN CT 06473
TEL. 203.239.4300 FAX. 203.234.7376
WWW.teamdtc.com

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

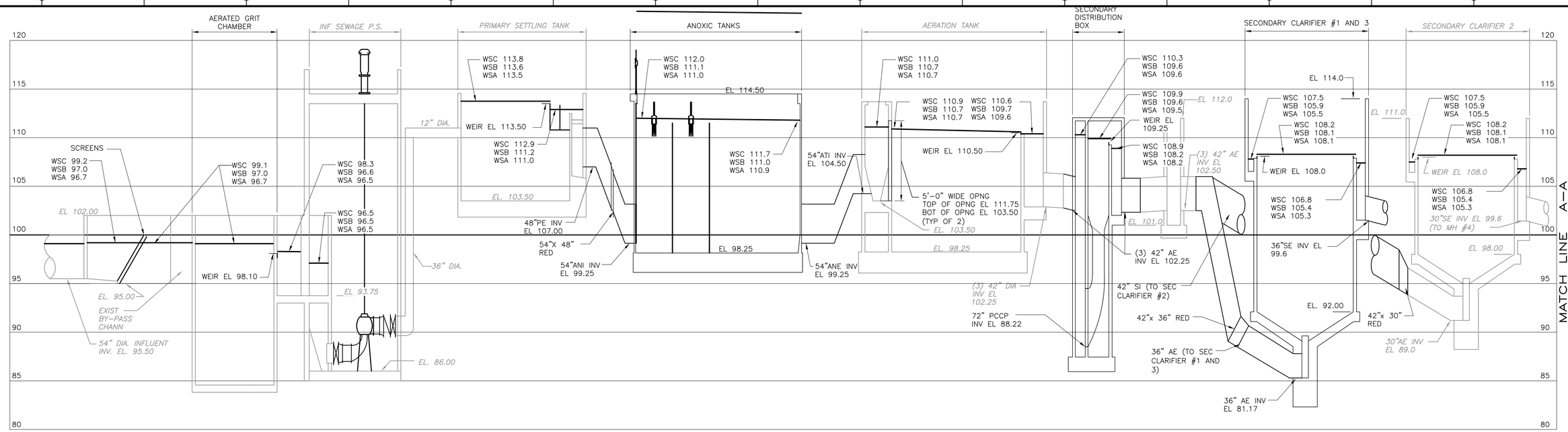
YARD PIPING PLAN IV
AS BUILT

PROJECT NO. 25472-41255

C-25

ACCESSION NO. 25472-68758

[STRATFORD, CT - WPCF UPGRADE] Filename: R:\25472\41255\GRAP\MHYPR001.DWG Xref's: [C24X36H,] Plotted by: DORSEYWR Time: 1/12/2006 2:21:01 PM



HYDRAULIC PROFILE

SCALE:
VERT: 1"= 5'
HOR: NONE

TIDAL STAGES

(ELEVATIONS FROM C.A. MAGUIRE PLANS – 1971)
(** ELEVATIONS FROM C.E. MAGUIRE PLANS – 1974)

- 113.50 HURRICANE FLOOD
- 113.20 HURRRICANE HIGH TIDE CORPS OF ENGINEERS
- 109.23 RECORD HIGH TIDE
- 103.80 SPRING TIDE
- 103.55 MEAN HIGH WATER **
- 103.50 HOUSATONIC RIVER
- 102.80 MEAN HIGH WATER
- 97.30 MEAN LOW WATER
- 96.75 MEAN LOW WATER **

NOTES

1) VERTICAL DATUM IS MEAN SEA LEVEL 0.00 = 100.00 TOWN OF STRATFORD

2) STRUCTURES AND ELEVATIONS FROM C.A. MAGUIRE PLANS, 1971 AND C.E. MAGUIRE PLANS, 1974 WITH MODIFICATIONS BY ROY F. WESTON. INC., 1990.

NOTES:

1. VERTICAL DATUM IS MEAN SEA LEVEL (MSL). 0.0' MSL = 100.0' TOWN OF STRATFORD DATUM.

2. STRUCTURES AND ELEVATIONS ARE FROM C.A. MAGUIRE PLANS, 1971, AND C.E. MAGUIRE PLANS, 1974 WITH MODIFICATIONS BY ROY F. WESTON, INC., 1980.

3. HYDRAULIC GRADE LINES SHOWN IS FOR WSC = PEAK HOURLY FLOW CONDITION. WATER SURFACE ELEVATIONS SHOWN ARE AS FOLLOWS:

WSC = PEAK HOURLY FLOW
39.0 MGD PLANT INFLOW
11.1 MGD RAS
34.0 MGD INTERNAL RECYCLE
ALL UNITS IN SERVICE

WSB = AVERAGE DAILY FLOW
8.2 MGD PLANT INFLOW
9.0 MGD RAS
34.0 MGD INTERNAL RECYCLE
ALL UNITS IN SERVICE

WSA = MINIMUM DAILY FLOW
4.0 MGD PLANT INFLOW
9.0.1 MGD RAS
34.0 MGD INTERNAL RECYCLE
ALL UNITS IN SERVICE

THIS RECORD DRAWING HAS BEEN PREPARED BASED ON A COMBINATION OF INFORMATION PROVIDED BY OTHERS AND BY CDM. THEREFORE, THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF ALL THE INFORMATION. TO THE BEST OF THE ENGINEER'S BELIEF AND KNOWLEDGE, THE INCLUDED RECORD INFORMATION IS REASONABLY ACCURATE.

BY_____ DATE_____

CDM

REV. NO.	DATE	DRWN	CHKD	REMARKS

CADD FILE NO: MHYPR001.DWG
DESIGNED BY: D. LARIMIE
DRAWN BY: W. DORSEY
SHEET CHK'D BY: D. LARIMIE
CROSS CHK'D BY: D. FREEMAN
APPROVED BY: D. FREEMAN
DATE: MARCH 2006

CDM consulting engineering construction operations Camp Dresser & McKee Inc.

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

HYDRAULIC PROFILE

PROJECT NO. 25472-41255

G-4

ACCESSION NO. 25472-68731

[STRATFORD, CT - WPCF UPGRADE]
Filename: R:\25472\41255\GRAP\GPRFD001.DWG Xref's: [C24X36H,] Plotted by: DORSEYWR Time: 9/2/2005 9:17:17 AM

PRIMARY CLARIFIER NO.1
PRIMARY CLARIFIER NO.2
PRIMARY CLARIFIER NO.3
SCUM PIT
PE
EXISTING VENTURI METER
PI
PS
SC
TO SOLIDS TRAIN PRIMARY SLUDGE
TO SOLIDS TRAIN PRIMARY SCUM
G-6
SODA ASH
IR
ANE
RAS
ANOXIC SELECTOR NO.1
ANOXIC SELECTOR NO.2
FROM SOLIDS TRAIN RAS
INTERNAL RECYCLE PUMPS
EXIST AERATION TANKS
AIR
SECOND-STAGE ANOXIC (TYP)
FIRST-STAGE AERATION (TYP)
AE
SECOND-STAGE AERATION (TYP)
INFLUENT COMPOSITE SAMPLE
WET WELL NO.1
WET WELL NO.2
INFLUENT PUMPS
BP (PRIMARY BYPASS)
M
SG-20
SG-60
SG-200
SG-24
SG-31
SG-102
SG-14
SG-101
SG-10
SG-12
SG-100
18" PLANT DRAIN
MECHANICAL SCREEN
BAR RACK
BUCKET ELEVATOR
AERATED GRIT TANK NO 2
GRIT CLASSIFIER NO. 2
SLIDE GATE (TYP)
AERATED GRIT TANK NO 1
GRIT CLASSIFIER NO. 1
SCREENINGS GRINDER PRESS
COMPACTED SCREENINGS
HEADWORKS BLDG
NO3
NH3
ALKALINITY
PLANT WATER PUMPS
G-6 TO SOLIDS TRAIN RAS/WAS
G-6 TO SOLIDS TRAIN SECONDARY SCUM
RAS/WAS/TKD
NEW SECONDARY DIST BOX
NEW SECONDARY CLARIFIER NO.1
NEW SECONDARY CLARIFIER NO.3
NEW SECONDARY DIST BOX
EXIST SECONDARY DIST BOX
EXIST SECONDARY CLARIFIER NO.2
MH 4
STE
UV DISINFECTION
EFFLUENT COMPOSITE SAMPLE
EFFLUENT PUMP STATION
STORM SITE DRAINAGE
OUTFALL CHAMBER B
OUTFALL CHAMBER A
FE
42" PLANT OUTFALL
54" PLANT OUTFALL

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BY_____ DATE_____

CDM

LEGEND

MAIN PROCESS FLOW

SIDE STREAM OR SOLIDS PROCESS STREAM

NOTE:
FOR PIPING ABBREVIATIONS LEGENDS AND SYMBOLS REFER TO SHEET SD-M-2 AND 3

REV. NO.	DATE	DRWN	CHKD	REMARKS

CADD FILE NO: GPRFD001.DWG
DESIGNED BY: D. FREEMAN
DRAWN BY: W. DORSEY
SHEET CHK'D BY: D.FREEMAN
CROSS CHK'D BY: A. FIRMIN
APPROVED BY: D. FREEMAN
DATE: MARCH 2006

CDM consulting engineering construction operations | Camp Dresser & McKee Inc.

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

PROCESS FLOW DIAGRAM
LIQUID TRAIN

PROJECT NO. 25472-41255

G-5

ACCESSION NO. 25472-68732

[STRATFORD, CT - WPCF UPGRADE]
Filename: R:\25472\41255\GRAP\GPRFD002.DWG Xref's: [C24X36H,] Plotted by: DORSEYWR Time: 9/2/2005 9:14:03 AM

TANK DEWATERING TO AERATION BASIN INF CHANN

SECONDARY CLARIFIER INF G-5

SECONDARY DIST BOX

SECONDARY CLARIFIER NO. 1

SECONDARY CLARIFIER NO. 2

SECONDARY CLARIFIER NO. 3

RAS PUMP NO. 1

RAS PUMP NO. 2

RAS PUMP NO. 3

RAS PUMP NO. 4 (STAND BY/DEWATERING)

AERATION TANK DRAIN

WAS PUMP NO. 1

WAS PUMP NO. 2

TO LIQUID TRAIN G-5

SECONDARY SCUM PUMP WELL

MH 4

NEW SECONDARY DIST BOX

G-5 SECONDARY CLARIFIER EFF

SLUDGE HOLDING TANK NO. 1

SLUDGE HOLDING TANK NO. 2

SLUDGE HOLDING TANK NO. 3

SLUDGE HOLDING TANK NO. 4

THICKENED SLUDGE TRANSFER PUMP NO. 1

THICKENED SLUDGE TRANSFER PUMP NO. 2

SLUDGE HOLDING TANK BLOWER NO. 1

SLUDGE HOLDING TANK BLOWER NO. 2

SLUDGE HAULER

TWAS PUMP NO. 1

TWAS PUMP NO. 2

TWAS GRINDER

TWAS WET WELL NO. 1

TWAS WET WELL NO. 2

GRAVITY BELT THICKENER NO. 1

GRAVITY BELT THICKENER NO. 2

POLYMER

GRAVITY THICKENER

TPS GRINDER

TPS PUMP NO. 1

TPS PUMP NO. 2

SCUM STORAGE TANK NO. 1

SCUM STORAGE TANK NO. 2

SCUM GRINDER

SCUM TRANSFER PUMP

TO PLANT DRAIN G-5

PRIMARY SCUM PUMP WELL

PRIMARY CLARIFIER NO.3

PRIMARY CLARIFIER NO.2

PRIMARY CLARIFIER NO.1

PS PUMP NO. 4 (STAND BY)

PS PUMP NO. 3

PS PUMP NO. 2

PS PUMP NO. 1

G-5 PRIMARY CLARIFIER EFF

PRIMARY CLARIFIER INF G-5

THIS RECORD DRAWING HAS BEEN PREPARED BASED ON A COMBINATION OF INFORMATION PROVIDED BY OTHERS AND BY CDM. THEREFORE, THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF ALL THE INFORMATION. TO THE BEST OF THE ENGINEER'S BELIEF AND KNOWLEDGE, THE INCLUDED RECORD INFORMATION IS REASONABLY ACCURATE.

BY_____ DATE_____

CDM

LEGEND

MAIN PROCESS FLOW

SIDE STREAM OR SOLIDS PROCESS STREAM

NOTE:
FOR PIPING ABBREVIATIONS LEGENDS AND SYMBOLS REFER TO SHEET SD-M-2 AND 3

REV. NO.	DATE	DRWN	CHKD	REMARKS

CADD FILE NO: GPRFD002.DWG
DESIGNED BY: N. HAMPTON
DRAWN BY: D. REBELO
SHEET CHK'D BY: N. HAMPTON
CROSS CHK'D BY: D. FREEMAN
APPROVED BY: D. FREEMAN
DATE: MARCH 2006

CDM consulting engineering construction operations | Camp Dresser & McKee Inc.

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

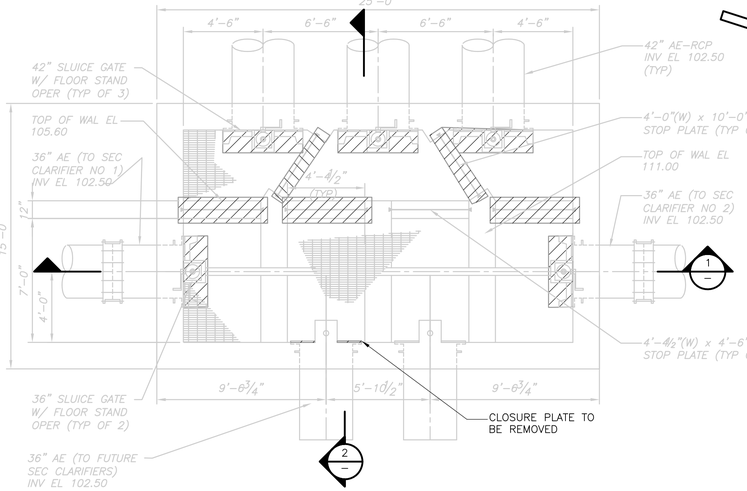
PROCESS FLOW DIAGRAM
SOLIDS TRAIN

PROJECT NO. 25472-41255

G-6

ACCESSION NO. 25472-68733

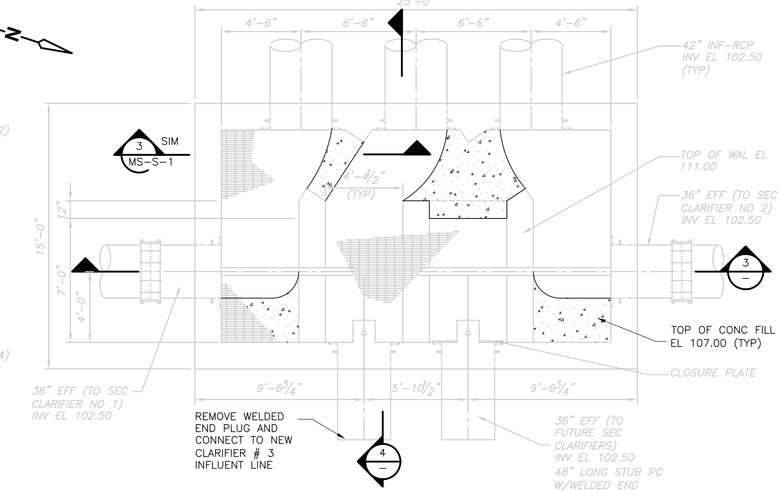
[STRATFORD, CT - WPCF UPGRADE] Filename: R:\25472\41255\MECH\MMSPL001.DWG Xref's: [C24X36H, MMSWP001,] Plotted by: DORSEYWR Time: 2/10/2006 2:38:53 PM



SECONDARY CLARIFIER DISTRIBUTION BOX–DEMOLITION

PLAN

1/4" = 1'-0"

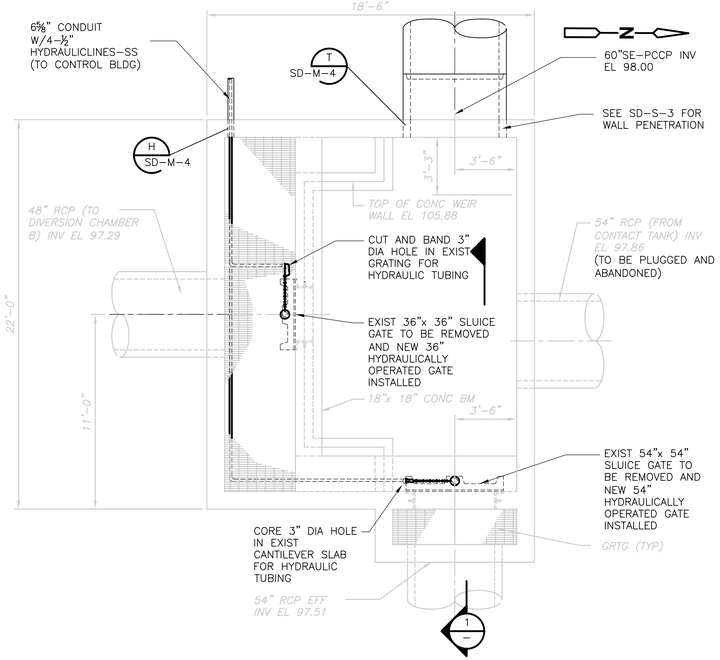


NOTE:
PLACE CONCRETE FILL IN 1'-6" MAX LIFTS. ALLOW PREVIOUS LIFT TO CURE FOR AT LEAST ONE DAY BEFORE PLACING NEXT LIFT."

SECONDARY CLARIFIER DISTRIBUTION BOX – NEW WORK

PLAN

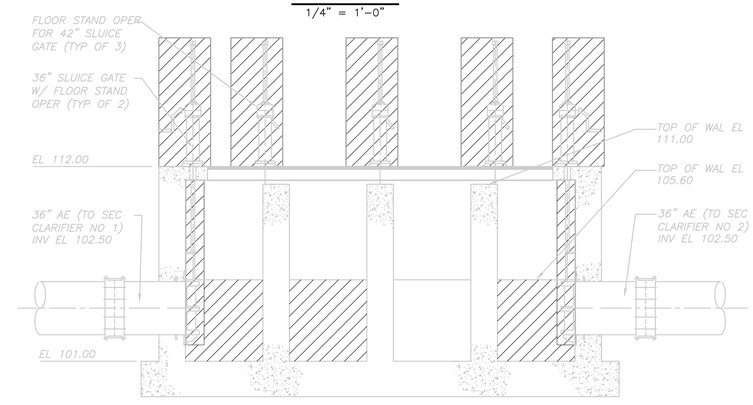
1/4" = 1'-0"



MODIFICATIONS TO EXISTING OUTFALL CHAMBER A

PLAN

1/4" = 1'-0"



NEW WORK

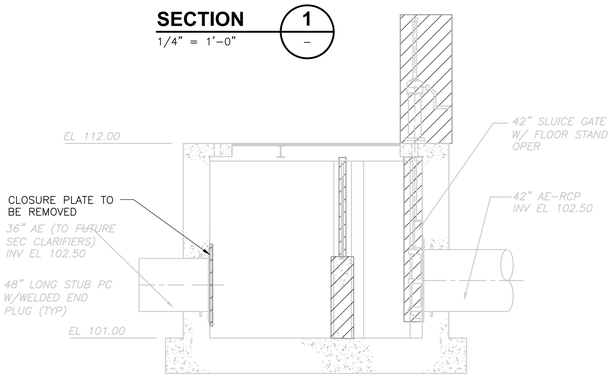
SECTION 3 / –

1/4" = 1'-0"

DEMOLITION

SECTION 1 / –

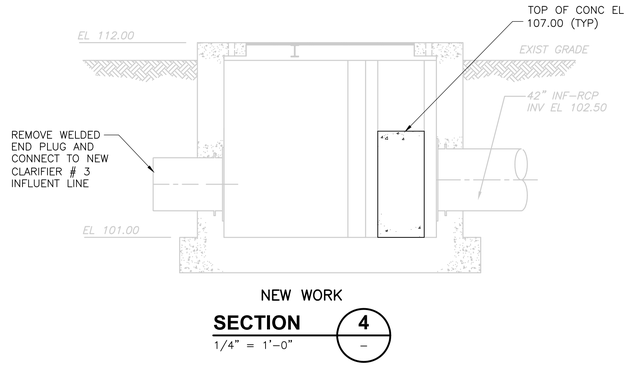
1/4" = 1'-0"



DEMOLITION

SECTION 2 / –

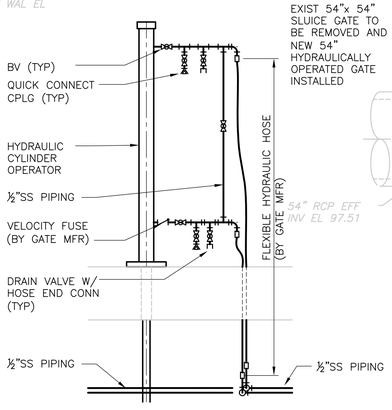
1/4" = 1'-0"



NEW WORK

SECTION 4 / –

1/4" = 1'-0"

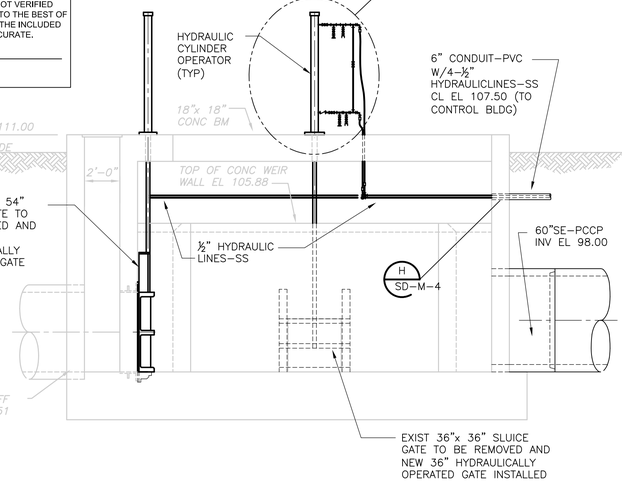


HYDRAULIC TUBING SCHEMATIC

(TYP FOR BOTH OPERATORS)

DETAIL A / –

1/2" = 1'-0"



OUTFALL CHAMBER A – MODIFICATION

SECTION 1 / –

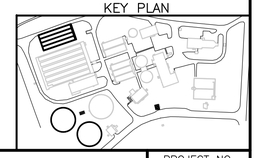
1/4" = 1'-0"

THIS RECORD DRAWING HAS BEEN PREPARED BASED ON A COMBINATION OF INFORMATION PROVIDED BY OTHERS AND BY CDM. THEREFORE, THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF ALL THE INFORMATION. TO THE BEST OF THE ENGINEER'S BELIEF AND KNOWLEDGE, THE INCLUDED RECORD INFORMATION IS REASONABLY ACCURATE.

BY_____ DATE_____

CDM

KEY PLAN



REV. NO.	DATE	DRWN	CHKD	REMARKS

CADD FILE NO: MMSPL001.DWG
DESIGNED BY: D. FREEMAN
DRAWN BY: W. DORSEY
SHEET CHK'D BY: D. FREEMAN
CROSS CHK'D BY: A. FIRMIN
APPROVED BY: D. FREEMAN
DATE: MARCH 2006

CDM Camp Dresser & McKee Inc.
consulting engineering construction operations

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

MISCELLANEOUS YARD STRUCTURES I
DEMOLITION AND NEW WORK

PROJECT NO. 25472-41255

MS-M-1

ACCESSION NO. 25472-68953

[STRATFORD, CT - WPCF UPGRADE]
Plotted by: ENGELSB Time: 10/30/2007 2:37:59 PM
Xref's: [C24X36H, CSTWP001, XSTWP001, AMWP005, AHDPL004, ACOPL003, ABBWP003, AEPPL002, ATBPL003,]
Filename: R:\25472\41255\ELEC\ESITE001.DWG

THIS RECORD DRAWING HAS BEEN PREPARED BASED ON A COMBINATION OF INFORMATION PROVIDED BY OTHERS AND BY CDM. THEREFORE, THE ENGINEER HAS NOT VERIFIED THE ACCURACY OF ALL THE INFORMATION. TO THE BEST OF THE ENGINEER'S BELIEF AND KNOWLEDGE, THE INCLUDED RECORD INFORMATION IS REASONABLY ACCURATE.

BY_____ DATE_____

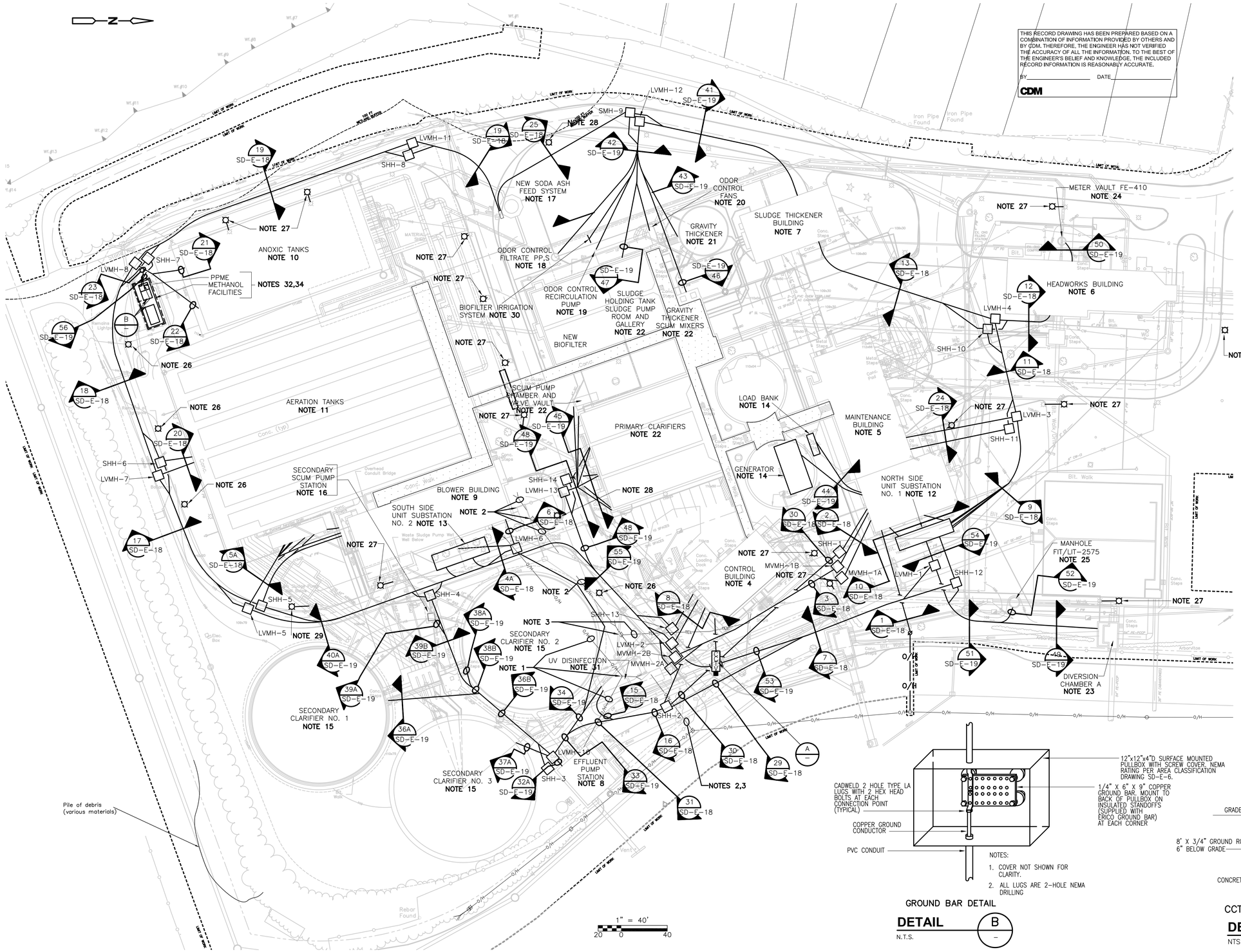
CDM

LEGEND:

MVMH = POWER MANHOLE (15KV)
LVMH = POWER MANHOLE (480V, 120V)
SHH = SIGNAL HANDHOLE (DATA HIGHWAY, POWER MONITORING, FIRE ALARM, INSTRUMENTATION)

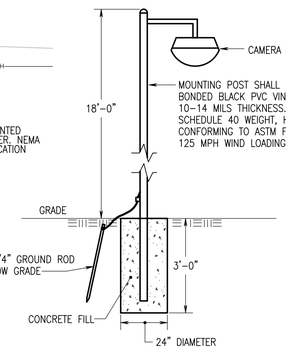
NOTES:

1. DEMOLISH EXISTING OVERHEAD LINES AND ASSOCIATED POLES.
2. EXISTING 15 KV OVERHEAD LINES, TRANSFORMER AND POLE TO BE DEMOLISHED BY POWER COMPANY.
3. EXISTING POLE AND TELEPHONE LINES TO REMAIN AND REUSE.
4. FOR CONTINUATION OF DUCT BANKS IN CONTROL BUILDING SEE SHEET CO-E-3.
5. FOR CONTINUATION OF DUCT BANKS IN MAINTENANCE BUILDING SEE SHEET MN-E-3.
6. FOR CONTINUATION OF DUCT BANKS IN HEADWORKS BUILDING SEE SHEET HD-E-3.
7. FOR CONTINUATION OF DUCT BANKS IN SLUDGE THICKENER BUILDING SEE SHEET TB-E-2.
8. FOR CONTINUATION OF DUCT BANKS IN EFFLUENT PUMP STATION BUILDING SEE SHEET EP-E-2.
9. FOR CONTINUATION OF DUCT BANKS IN BLOWER BUILDING SEE SHEET BB-E-4.
10. FOR CONTINUATION OF DUCT BANKS AT ANOXIC TANKS SEE SHEET AN-E-1.
11. FOR CONTINUATION OF DUCT BANKS AT AERATION TANKS SEE SHEET AT-E-1.
12. FOR CONTINUATION OF DUCT BANKS AT NORTH SIDE UNIT SUBSTATION NO. 1 SEE SHEET SD-E-14.
13. FOR CONTINUATION OF DUCT BANKS AT SOUTH SIDE UNIT SUBSTATION NO. 2 SEE SHEET SD-E-15.
14. FOR CONTINUATION OF DUCT BANKS AT LOAD BANK AND GENERATOR SEE SHEET SD-E-13.
15. FOR CONTINUATION OF DUCT BANKS AT SECONDARY CLARIFIERS SEE SHEET SC-E-1.
16. FOR CONTINUATION OF DUCT BANKS AT SECONDARY SCUM PUMP STATION SEE SHEET SC-E-1.
17. FOR CONTINUATION OF DUCT BANKS AT SODA ASH FEED SYSTEM SEE SHEET MS-E-1.
18. FOR CONTINUATION OF DUCT BANKS AT ODOR CONTROL FILTRATE PUMPS SEE SHEET MS-E-2.
19. FOR CONTINUATION OF DUCT BANKS AT ODOR CONTROL RECIRCULATION PUMP SEE SHEET MS-E-2.
20. FOR CONTINUATION OF DUCT BANKS AT ODOR CONTROL FANS SEE SHEET MS-E-2.
21. FOR CONTINUATION OF DUCT BANKS AT GRAVITY SLUDGE THICKENER SEE SHEET MS-E-2.
22. FOR CONTINUATION OF DUCT BANKS AT PRIMARY CLARIFIERS AND SLUDGE HOLDING TANK SEE SHEET PC-E-1 AND PC-E-2.
23. FOR CONTINUATION OF DUCT BANKS AT DIVERSION CHAMBER A SEE SHEET MS-E-1.
24. FOR CONTINUATION OF DUCT BANK AT METER VAULT FE-410 SEE SHEET MS-E-1.
25. FOR CONTINUATION OF DUCT BANKS AT MANHOLE FIT/LIT-2575 SEE SHEET MS-E-1.
26. REPLACE EXISTING LUMINAIRE IN-KIND.
27. RELOCATE EXISTING LIGHT FIXTURE AND EXTEND CONDUIT AND WIRE TO RELOCATED LUMINAIRE.
28. REPAIR EXISTING LUMINAIRE.
29. REPLACE IN KIND AND RELOCATE LIGHT FIXTURE. EXTEND CONDUIT AND WIRE TO NEW FIXTURE.
30. FOR CONTINUATION OF DUCT BANKS AT BIOFILTER IRRIGATION SYSTEM SEE SHEET MS-E-2.
31. FOR CONTINUATION OF DUCT BANKS AT UV DISINFECTION SYSTEM SEE SHEET DI-E-1.
32. FOR CONTINUATION OF DUCT BANKS AT METHANOL FACILITIES SEE SHEET MS-E-2
33. ALL UNDERGROUND CONDUITS ENTERING STRUCTURE SHALL BE TERMINATED AT EQUIPMENT OR BOX USING INTERNAL SEALING BUSHINGS TYPE CSBI AS MANUFACTURED BY O-Z GEDNEY. SEE STANDARD DETAIL.
34. PROVIDE #4/0 AWG BARE COPPER GROUND LOOP AROUND METHANOL FACILITIES AND CONNECT TO THE PLANT WIDE GROUNDING SYSTEM. INSTALL 1/4"X6"X9" COPPER GROUND BARS AT LOCATIONS SHOWN. CONNECT GROUND BARS TO THE GROUND LOOP. BOND ALL ELECTRICALLY ISOLATED METAL SECTIONS OF METHANOL STORAGE TANK AND PIPING TO ASSOCIATED GROUND BARS. BOND PANEL'S "PPME" GROUND BUS AND TRANSFORMER'S "T-ME" NEUTRAL TO THE ASSOCIATED GROUND BAR.
35. ALL ELECTRICAL MANHOLES SHALL BE LOCATED IN THE FIELD AND COORDINATED WITH THE ENGINEER AND SITE CONTRACTOR.



NOTES:
1. COVER NOT SHOWN FOR CLARITY.
2. ALL LUGS ARE 2-HOLE NEMA DRILLING

GROUND BAR DETAIL
DETAIL B
N.T.S.



CCTV CAMERA MOUNTING
DETAIL A
NTS

KEY PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	06/2010	JDS		REVISED FOR RECORD DRAWING

CADD FILE NO: ESITE001.DWG
DESIGNED BY: T.J.ADAMCZYK
DRAWN BY: T.J.ADAMCZYK
SHEET CHK'D BY: A.PLINER
CROSS CHK'D BY: R. PRATA
APPROVED BY: M.VECCHIARELLO
DATE: MARCH 2006

CDM Camp Dresser & McKee Inc.
consulting engineering construction operations
GROUP
DEDICATED TECHNOLOGY CONSULTANTS

TOWN OF STRATFORD, CONNECTICUT
CONTRACT No. 06-01

WATER POLLUTION CONTROL FACILITY UPGRADE

ELECTRICAL SITE PLAN

PROJECT NO. 25472-41255

SD-E-17

ACCESSION NO. 25472-69066

TECHNICAL SPECIFICATION ATTACHMENT – A4

Contract Drawings prepared by GZA GeoEnvironmental Inc., entitled "Water Pollution Control Facility Flood Protection System Improvements - Stratford, Connecticut - 100% Design Drawings, July 2024 – Contract #: 2026-15, Revision No. 2, Issued for Bid 1/29/2026, 55 Sheets.

WATER POLLUTION CONTROL FACILITY
FLOOD PROTECTION SYSTEM IMPROVEMENTS
STRATFORD, CONNECTICUT
100% DESIGN DRAWINGS, JULY 2024
CONTRACT #: 2026-15

DRAWING INDEX

GENERAL

G-001	TITLE SHEET, SITE LOCUS, AND DRAWING INDEX
G-002	GENERAL NOTES
G-101	EXISTING SITE PLAN
G-102	EXISTING FLOOD PROTECTION TYPICAL SECTIONS AND DETAILS
G-103	EXISTING STORMWATER INFRASTRUCTURE DETAILS (1)
G-104	EXISTING STORMWATER INFRASTRUCTURE DETAILS (2)
G-201	EXISTING SECTIONS (1)
G-202	EXISTING SECTIONS (2)
G-203	EXISTING SECTIONS (3)
G-204	EXISTING SECTIONS (4)

CIVIL

C-101	PROPOSED SEDIMENT, EROSION CONTROL, SITE ACCESS, AND LAYDOWN PLAN
C-102	PROPOSED CLEARING, GRUBBING, AND DEMOLITION PLAN
C-103	WORK PLAN - KEY PLAN
C-104	WORK PLAN (1)
C-105	WORK PLAN (2)
C-106	WORK PLAN (3)
C-107	WORK PLAN (4)
C-108	WORK PLAN (5)
C-109	GRADING PLAN (1)
C-110	GRADING PLAN (2)
C-111	GRADING PLAN (3)
C-112	GRADING PLAN (4)
C-113	GRADING PLAN (5)
C-114	PROPOSED PROFILES (1)
C-115	PROPOSED PROFILES (2)
C-201	PROPOSED SECTIONS (1)
C-202	PROPOSED SECTIONS (2)
C-203	PROPOSED SECTIONS (3)
C-204	PROPOSED SECTIONS (4)
C-205	PROPOSED SECTIONS (5)
C-206	PROPOSED SECTIONS (6)
C-207	PROPOSED SECTIONS (7)
C-208	PROPOSED SECTIONS (8)
C-301	TYPICAL SECTIONS AND SITE DETAILS (1)
C-302	EROSION AND SEDIMENT CONTROL DETAILS
C-303	EROSION AND SEDIMENT CONTROL NARRATIVE
HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE
HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL
HW-910_17	R-B TERMINAL SECTION
HW-913_01a	CHAIN LINK FENCE
HW-913_01b	CHAIN LINK FENCE HARDWARE
HW-913_02	CHAIN LINK FENCE GATES

STRUCTURAL

S-101	FLOOD WALL FOUNDATION PLAN (1)
S-102	FLOOD WALL FOUNDATION PLAN (2)
S-103	FLOOD WALL FOUNDATION PLAN (3)
S-104	FLOOD WALL FOUNDATION PLAN (4)
S-201	TYPICAL SECTIONS WALL-1 AND WALL-2
S-202	TYPICAL SECTIONS WALL-3
S-203	TYPICAL SECTIONS WALL-4, WALL-5, AND WALL-6
S-301	FLOOD WALL DETAILS
S-401	DEPLOYABLE FLOOD GATE NOTES
S-402	GATE-A DETAILS
S-403	GATE-B DETAILS
S-404	GATE-C DETAILS
S-405	GATE DETAILS

SITE LOCUS MAP

SOURCE: THIS MAP CONTAINS THE ESRI ARCGIS ONLINE USA TOPOGRAPHIC MAP SERVICE, PUBLISHED DECEMBER 2009 BY ESRI RCIMS SERVICES. LAST UPDATED MARCH 2014.

0 250' 500' 1000' 1500'
SCALE IN FEET

PROJECT OWNER

TOWN OF STRATFORD
TOWN HALL 2725 MAIN STREET
STRATFORD, CONNECTICUT 06615

DAVID CHESS, MAYOR

PROJECT ENGINEER

GZA GEOENVIRONMENTAL, INC.
249 VANDERBILT AVENUE
NORWOOD, MASSACHUSETTS 02062

GZA GEOENVIRONMENTAL, INC.
95 GLASTONBURY BOULEVARD, THIRD FLOOR
GLASTONBURY, CONNECTICUT 06033

NOTE: WRITTEN SCALES CORRESPOND TO ORIGINAL 36"X24" DRAWING SHEET SIZE. USE GRAPHIC SCALE BAR FOR ALTERNATE SIZE DRAWINGS.

NO.	ISSUE/DESCRIPTION	BY	DATE
2.	ISSUED FOR BID	AJK	1/29/2026
1.	ISSUED FOR REGULATORY REVIEW	AJK	1/29/2025

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WATER POLLUTION CONTROL FACILITY FLOOD PROTECTION SYSTEM IMPROVEMENTS, STRATFORD, CONNECTICUT
100% DESIGN DRAWINGS, JULY 2024 - CONTRACT #: 2026-15

TITLE SHEET, SITE LOCUS, AND DRAWING INDEX

STATE OF CONNECTICUT · DAVID N. DARSOW · No. 23103 · LICENSED PROFESSIONAL ENGINEER

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
TOWN OF STRATFORD
2725 MAIN STREET
STRATFORD, CT 06615

PROJ MGR: AJK	REVIEWED BY: DMB	CHECKED BY: -	DRAWING G-001
DESIGNED BY: AJK	DRAWN BY: AJK	SCALE: AS SHOWN	SHEET NO. 1 OF 55
DATE: JULY 2024	PROJECT NO. 18.0172256.70	REVISION NO. 2	

©2026 GZA GeoEnvironmental, Inc. G:\ZA-\1\GZAAMESBURY_VOBS\172256\70 STRATFORD WPCF PERIMETER FLOOD WALL IMPROVEMENTS\FIGURES\CAD\172256.70 STRATFORD WPCF CD\DWG G-001 JANUARY 29, 2026 5:48 PM alex.korp

PROJECT DESCRIPTION

1. THE STRATFORD WATER POLLUTION CONTROL FACILITY (WPCF) IS LOCATED ADJACENT TO THE HOUSATONIC RIVER IN STRATFORD CONNECTICUT. THE WPCF WAS PREVIOUSLY CONSTRUCTED WITH LEVEES AND DIKES THAT PROVIDE PLANT PERIMETER COASTAL FLOOD PROTECTION. THE PERIMETER DIKES AND LEVEES HAVE FLOOD PROTECTION GAPS AT THE PLANT ENTRANCES AT THE NORTHWEST CORNER AND SOUTHWEST CORNER OF THE PLANT PROPERTY AND POTENTIAL FLOOD ENTRY POINTS ASSOCIATED WITH EXISTING UTILITY PENETRATIONS. THE CURRENT DIKE AND LEVEE FLOOD PROTECTION CREST ELEVATIONS ARE ALSO LOW RELATIVE TO THE CURRENT COASTAL FLOOD HAZARD. THE OBJECTIVE OF THIS PROJECT IS TO IMPROVE THE FLOOD RESILIENCY CAPABILITIES OF THE WPCF BY: 1) INCREASING THE DIKE AND LEVEE FLOOD PROTECTION ELEVATIONS USING IN-KIND AND SUPPLEMENTAL EARTHWORK; 2) CONSTRUCTING NEW PILE- SUPPORTED, CONCRETE FLOOD WALL SEGMENTS; AND 3) CLOSING GAPS IN THE FLOOD PROTECTION SYSTEM USING DEPLOYABLE FLOOD CONTROL ENTRY GATE SYSTEMS.
2. THE PROJECT SCOPE INCLUDES ALL WORK REQUIRED TO COMPLETE THE PROJECT INCLUDING ALL SUPERVISION; LABOR; MATERIALS, TRANSPORTATION; SITE MOBILIZATION; UTILITY LOCATING, VERIFICATION, AND COORDINATION; SITE PREPARATION; SECURITY; DEMOLITION; DISPOSAL OF UNSUITABLE AND EXCESS MATERIALS; CONSTRUCTION; EROSION AND SEDIMENT CONTROL; SITE SURVEY AND LAYOUT; TEMPORARY FACILITIES; DEMOBILIZATION; SITE RESTORATION; PROVISION OF ALL REQUIRED SUBMITTALS, SHOP DRAWINGS, AS-BUILT SURVEY, CONSTRUCTION DOCUMENTATION; ETC.; AND INCIDENTAL ITEMS AS REQUIRED TO COMPLETE THE WORK.
3. THE PROJECT WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING COMPONENTS (SEE PLANS FOR LOCATIONS AND DETAILS):

SITE PREPARATION:

3.1. PROVIDE AND ERECT PROJECT SIGNAGE.

3.2. ESTABLISHMENT OF ON-SITE SURVEY CONTROLS.

3.3. UTILITY CLEARANCE, LOCATING, VERIFICATION, AND COORDINATION (THE CONTRACTOR SHALL PERFORM MINIMALLY INVASIVE EXCAVATION TO EXPOSE AND DOCUMENT EXISTING SUBSURFACE UTILITY CROSSINGS WHERE REQUIRED, AND AS NECESSARY TO AVOID CONFLICT WITH THE PROPOSED WORK).

3.4. COORDINATE, INSTALL, AND MAINTAIN SEDIMENTATION AND EROSION CONTROLS AND PREPARE CONSTRUCTION LAYDOWN AREA.

3.5. VEGETATION CLEARING AND GRUBBING, STRIP AND TEMPORARILY STOCKPILE TOPSOIL FOR REUSE.

3.3. REMOVE AND REPLACE EXISTING 6-INCH WATER SERVICE TO THE INDICATED LIMITS. MAINTAIN CONTINUOUS WATER SERVICE TO THE SITE, UNLESS AUTHORIZED IN WRITING BY THE TOWN. COORDINATE THE SERVICE REPLACEMENT, CONNECTIONS, AND INSPECTIONS WITH AQUARION WATER COMPANY (AWC), THE ENGINEER, AND THE TOWN. THE CONTRACTOR SHALL INSTALL THE SERVICE REPLACEMENT SUCH THAT IT DOES NOT CONFLICT WITH THE PROPOSED WORK AND STRUCTURES. THE CONTRACTOR SHALL SURVEY AND DOCUMENT THE LOCATION OF THE NEW SERVICE REPLACEMENT AND ACCURATELY DEPICT THE LOCATION ON THE RECORD DRAWINGS. ALL WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL, IN ACCORDANCE WITH AWC AND TOWN REQUIREMENTS, AS REQUIRED, AND AS DIRECTED BY THE ENGINEER.

3.4. TEMPORARILY REMOVE AND RELOCATE EXISTING REVETMENT STONE WITHIN THE WORK AREA OF DISTURBANCE TO THE MINIMUM EXTENT NECESSARY TO ENABLE THE WORK. STORE EXISTING STONE FOR RE-USE IN THE PROPOSED WORK.

3.5. DEMOLISH AND REMOVE EXISTING PAVEMENTS, CURBING, GUIDE RAIL, FENCING, ABANDONED UTILITIES, AND OTHER SITE FEATURES AS REQUIRED TO PERFORM THE WORK. PLUG AND FILL EXISTING, ABANDONED, SUBSURFACE UTILITIES TO REMAIN WHERE REQUIRED.

FLOOD PROTECTION IMPROVEMENTS:

3.6. EXCAVATE THE AREAS OF PROPOSED FILL TO EXPOSE THE EXISTING IMPERVIOUS FILL SUBGRADE, WHERE IT EXISTS. COORDINATE THE ASSESSMENT OF THE SUBGRADE WITH THE ENGINEER.

3.7. INSTALL EMBANKMENT FILL TO PROPOSED PILE CAP SUBGRADE ELEVATIONS WITHIN THE FOOTPRINT OF THE PROPOSED PILE-SUPPORTED FLOOD WALL SEGMENTS. PROVIDE AND INSTALL NEW, IMPORTED LOW PERMEABILITY FILL, RIPRAP, AND OTHER SPECIFIED FILL MATERIALS AS REQUIRED TO ACHIEVE THE PROPOSED GRADES AND GEOMETRY. INSTALL GABION WHERE REQUIRED.

3.8. INSTALL PILES.

3.9. EXCAVATE TRENCH FOR PILE CAP KEY AND PREPARE PILE CAP SUBGRADE (SEQUENCE WITH CONCRETE INSTALLATION).

3.10. CONSTRUCT FORMS, STEEL REINFORCING, AND EXPANSION JOINTS FOR CONCRETE PILE CAPS, PLACE CONCRETE.

3.11. CONSTRUCT FORMS, STEEL REINFORCING, AND EXPANSION JOINTS FOR CONCRETE STEMWALLS AND GATE COLUMNS, PLACE CONCRETE.

3.12. CONSTRUCT IMPROVED EARTHEN DIKE SEGMENTS AND COMPLETE EMBANKMENT FILL.

3.13. INSTALL UNDERDRAIN.

3.14. INSTALL IN-LINE TIDE CHECK VALVE AT EXISTING 15-INCH CMP STORMWATER PIPE OUTFALL ON BEACON POINT ROAD (DISCHARGING TO HOUSATONIC).

3.15. RESET REVETMENT STONE AND INSTALL RIPRAP SLOPE PROTECTION, CREST, AND APRON WHERE INDICATED.

3.16. COMPLETE BACKFILL AND GRADE TO PROPOSED CONTOURS, RESTORE UNIMPROVED AREAS, INSTALL TOPSOIL AND SEED TO LAWN.

DEPLOYABLE FLOOD GATE SYSTEMS:

3.17. CONSTRUCT DEPLOYABLE FLOOD GATE SYSTEM STORAGE PADS FOR MODULAR STORAGE CONTAINERS.

3.18. PROVIDE AND INSTALL MODULAR STORAGE CONTAINERS FOR DEPLOYABLE GATE SYSTEM COMPONENTS.

3.19. PROVIDE, INSTALL, AND TEST FIT DEPLOYABLE FLOOD GATE SYSTEMS.

3.20. DISASSEMBLE DEPLOYABLE FLOOD GATE SYSTEM COMPONENTS, SECURE FIXED MOUNTING LOCATIONS, AND STORE DEPLOYABLE COMPONENTS IN MODULAR STORAGE CONTAINERS.

MISCELLANEOUS SITE RESTORATION AND IMPROVEMENTS:

3.21. LOCATE THE EXISTING DRAINAGE STRUCTURE LOCATED ON THE 54" CMP STORMWATER PIPE DISCHARGING TO DIVERSION CHAMBER C (WEST SIDE OF PROPERTY) AND RAISE THE COVER TO PROPOSED FINISH GRADE.

3.22. MODIFY, RESTORE, AND INSTALL CHAIN LINK FENCING AND INSTALL NEW SWING GATES WHERE INDICATED.

3.23. MODIFY THE EXISTING METAL GUIDE RAIL ALONG BEACON POINT ROAD AT THE LIMITS OF REMOVAL AND INSTALL NEW TERMINAL END SECTIONS WHERE INDICATED.

3.24. RESTORE EXISTING PAVEMENTS AND INSTALL NEW HOT MIX ASPHALT (HMA) PAVEMENT WHERE INDICATED AND AS REQUIRED TO RESTORE UNIMPROVED AREAS OF THE SITE DISTURBED BY THE WORK.

3.25. RESTORE EXISTING CURBING OR INSTALL NEW BITUMINOUS CONCRETE LIP CURBING (B.C.L.C.) WHERE INDICATED AND AS AS REQUIRED.

3.26. REMOVE ALL REMAINING EXCESS AND UNSUITABLE MATERIALS GENERATED BY THE WORK AND RESTORE UNIMPROVED AREAS OF THE SITE DISTURBED BY THE WORK TO THEIR PRE-CONSTRUCTION CONDITIONS.

GENERAL CONDITIONS

1. LOCATIONS OF UNDERGROUND UTILITIES (IF SHOWN) ARE APPROXIMATE ONLY AND ARE NOT WARRANTED TO BE CORRECT. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED FOR SERVICE, TYPE, SIZE, INVERT ELEVATION, LOCATION, ETC. BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION WORK IN THE VICINITY THEREOF. THE CONTRACTOR MUST NOTIFY "CALL BEFORE YOU DIG CONNECTICUT" (811) AT LEAST 3 FULL WORKING DAYS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AND COORDINATING WITH ALL APPROPRIATE MUNICIPAL DEPARTMENTS AND UTILITIES. THE CONTRACTOR SHALL BE PREPARED TO FIELD LOCATE AND VERIFY THE CONDITION OF EXISTING UTILITIES USING APPROPRIATE MEANS; INCLUDING EXCAVATION, EXPOSURE, DIRECT MEASUREMENT, AND DOCUMENTATION OF EXISTING UTILITIES; AS NECESSARY TO AVOID DAMAGE POTENTIALLY ARISING DUE TO THE CONTRACTOR'S WORK. NOTIFY THE OWNER AND ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
2. THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH RESPECTIVE UTILITY COMPANIES.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO AVOID DAMAGE TO ANY EXISTING UTILITIES OR STRUCTURES TO REMAIN IN-PLACE DURING CONSTRUCTION AND THROUGH PROJECT COMPLETION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITIES, STRUCTURES, AND THE SITE, OR INJURIES TO THE PUBLIC RESULTING FROM THE CONTRACTOR'S WORK OR THE WORK OF THE CONTRACTOR'S SUBCONTRACTORS.
5. NO GUARANTEE IS MADE AS TO THE EXISTENCE OR ACCURACY OF TEMPORARY BENCHMARKS AND CONTROL POINTS LOCATED OR SET BY GZA OR OTHERS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINDING, VERIFYING, AND RE-SETTING (IF NECESSARY) CONTROL POINTS AND BENCHMARKS FOR THE WORK OF THE CONTRACT.
10. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN ADEQUATE SURVEY CONTROL, AT ALL TIMES, TO ESTABLISH AND MAINTAIN ALL LINES AND ELEVATIONS.
11. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER, BY THE CONTRACTOR, BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
12. THE CONTRACTOR SHALL PROVIDE ALL SUPERVISION, FACILITIES, LABOR, TOOLS, EQUIPMENT, APPLIANCES, TRANSPORTATION, MATERIALS, SURVEY, AND RELATED AND INCIDENTAL WORK NECESSARY TO COMPLETE THE WORK SPECIFIED ON THESE DRAWINGS.
16. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY CONSTRUCTION FENCES, BARRIERS, AND RELATED SIGNAGE AS NECESSARY TO SECURE THE CONTRACTOR'S ACCESS AND WORK AREAS.
17. THE RESPONSIBILITY FOR SAFETY IN, ON, OR ABOUT THE JOBSITE SHALL BE THAT OF THE CONSTRUCTION CONTRACTOR. THESE DRAWINGS DO NOT INCLUDE COMPONENTS WHICH MAY BE NECESSARY FOR CONSTRUCTION SAFETY.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, EXCEPT WHERE SPECIFICALLY DETAILED IN THE PLANS AND SPECIFICATIONS. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEQUENCE OF THE WORK, EXCEPT WHERE SPECIFICALLY DETAILED IN THE PLANS AND SPECIFICATIONS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL DURING THE WORK OF THE CONTRACT. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE, AT MINIMUM, AS REQUIRED BY THE PROJECT PLANS, SPECIFICATIONS, AND PERMIT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL MEASURES NECESSARY FOR THE PREVENTION OF SEDIMENT DISCHARGE OR EROSION AT THE SITE.
20. REFER TO DRAWINGS C-102, C-302, AND C-303 FOR ADDITIONAL SEDIMENT AND EROSION CONTROL REQUIREMENTS AND RELATED INFORMATION.
21. A SPECIFIC AREA WILL BE DESIGNATED AS A CONTRACTOR STAGING AREA. THE CONTRACTOR SHALL USE THIS AREA, AND THIS AREA ONLY, FOR ON-SITE PARKING, OFFICE TRAILERS (IF NECESSARY), EQUIPMENT AND MATERIAL STORAGE, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY SIGNAGE, FENCING, SAFETY, SEDIMENT/EROSION CONTROL, IMPROVEMENTS, RESTORATIONS ETC. IN THESE AREAS. AREAS WITHIN THE LIMITS OF THE WORK MAY BE USED FOR TEMPORARY STORAGE, HAUL ROADS, PARKING, ETC.; HOWEVER, NO ADDITIONAL CONSIDERATION OR PAYMENT WILL BE MADE FOR WORK NECESSARY TO RE-GRADE AND RESTORE SUCH AREAS TO PRE-CONSTRUCTION CONDITIONS OR RELOCATE ANY MATERIALS OR EQUIPMENT TEMPORARILY STORED WITHIN THE LIMITS OF THE WORK. IF THE CONTRACTOR REQUIRES AND IDENTIFIES ADDITIONAL STAGING AREAS ON THE OWNER'S PROPERTY, THE CONTRACTOR SHALL MAKE A WRITTEN REQUEST TO THE OWNER AND ENGINEER DESCRIBING THE NEED AND LOCATION OF THE PROPOSED AREA. NO GUARANTEE IS MADE THAT ADDITIONAL LAYDOWN AREAS WILL BE MADE AVAILABLE.
22. THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION AND AS A RESULT OF THE PROJECT AS PER THE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL RESTORE UNPAVED AND OTHERWISE UNIMPROVED AREAS DISTURBED BY CONSTRUCTION ACTIVITY WITH THE INSTALLATION OF A MINIMUM 6" THICK LAYER OF TOPSOIL AND SEEDING THE AREA TO LAWN. WHERE NO SPECIFIC INSTRUCTION IS GIVEN, RESTORATION SHALL BE TO THE ORIGINAL CONDITION OR BETTER AND AT NO ADDITIONAL COST TO THE OWNER.
23. THE CONTRACTOR SHALL MAKE SMOOTH TRANSITIONS AT ALL SLOPE CHANGES AND FEATHER THE EDGES OF CUTS AND FILL TO BLEND INTO EXISTING CONDITIONS TO REMAIN.
24. THE CONTRACTOR SHALL ADJUST AND RAISE THE TOP, FRAME, GRATE, COVER, ETC. OF ALL EXISTING AND PROPOSED MAN HOLES, CATCH BASINS, AREA DRAINS, GATE BOXES, AND SIMILAR STRUCTURES AND APPURTENANCES LOCATED WITH AREAS OF DISTURBANCE TO MATCH FINISH GRADES.
25. IN THE EVENT OF THE DISCOVERY OF THE PRESENCE OF AN ENDANGERED PLANT OR ANIMAL IN THE WORK AREA OR STAGING AREA, ALL WORK IN THE IMMEDIATE AREA OF THE FIND SHALL STOP AND THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY. WORK IN THE IMMEDIATE AREA AND/OR THE ENTIRE SITE (AT THE DISCRETION OF THE OWNER) SHALL BE DISCONTINUED UNTIL CLEARANCE IS GRANTED BY THE OWNER.
26. IN THE EVENT OF THE DISCOVERY OF A PREVIOUSLY UNKNOWN ARCHEOLOGICAL SITE, POTENTIAL CULTURAL ARTIFACTS OR RESOURCES, OR ANY OTHER UNUSUAL ITEMS OR CONDITIONS, ALL WORK IN THE IMMEDIATE AREA OF THE FIND SHALL STOP AND THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY. WORK IN THE IMMEDIATE AREA SHALL BE DISCONTINUED UNTIL CLEARANCE IS GRANTED BY THE OWNER.
27. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL DEVELOP, SUBMIT, AND MAINTAIN AN EMERGENCY CONTACT LIST WITH NAMES AND PHONE NUMBERS (DAY AND NIGHT) OF ALL KEY PERSONNEL INVOLVED WITH THE PROJECT. THE LIST SHALL SPECIFICALLY INCLUDE THE PERSON FROM THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR ENVIRONMENTAL COMPLIANCE. THE LIST SHALL BE PROVIDED TO THE OWNER, ENGINEER, CONSERVATION COMMISSION AND OTHER REGULATING ENTITIES HAVING JURISDICTION AND UPDATED AS NEEDED.

GENERAL CONDITIONS (CONTINUED)

28. THE CONTRACTOR IS NOTIFIED THAT THE SITE IS LOCATED WITHIN 100-YR AND 500-YR FLOOD ZONES AND IS SUBJECT TO FLOODING DUE TO PRECIPITATION AND COASTAL STORM EVENTS. THE CONTRACTOR SHALL MONITOR SITE CONDITIONS, WEATHER FORECASTS, AND TIDE PREDICTIONS FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL BE AWARE OF THE ANTICIPATED WORK SCHEDULE AS IT RELATES TO ANTICIPATED WEATHER AND TIDAL CONDITIONS. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT A PROJECT SPECIFIC PLAN TO SECURE EQUIPMENT, MATERIALS, AND THE EXISTING WATER POLLUTION CONTROL FACILITY; AND PROTECT WORK FROM DAMAGE DURING STORMS, ASTRONOMICAL TIDES, AND OTHER WEATHER EVENTS. THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN THE CURRENT LEVEL OF PERIMETER FLOOD PROTECTION THAT CURRENTLY EXISTS AT THE WPCF.
29. IN THE EVENT OF UNANTICIPATED ENVIRONMENTAL AND/OR ARCHEOLOGICAL CONDITIONS WHICH PREVENT CONTINUED WORK, THE OWNER MAY DIRECT THE CONTRACTOR TO STOP WORK AND STABILIZE THE SITE. THE OWNER RESERVES THE RIGHT TO TERMINATE THE CONTRACT IN SUCH A CASE.
30. THE CONTRACTOR IS RESPONSIBLE FOR ALL PENALTIES AND DELAYS DUE TO NON-COMPLIANCE WITH PERMIT CONDITIONS.
31. STRUCTURES AND FEATURES ARE DESIGNED TO BE SELF-SUPPORTING AND STABLE ONLY AFTER THE WORK DEPICTED ON THE DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EXCAVATION, ERECTION, AND OTHER WORK PROCEDURES TO ENSURE SAFETY DURING THE WORK. THIS INCLUDES PROVISION OF NECESSARY SHORING AND OR TEMPORARY BRACING. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT THE COMPLETION OF THE PROJECT.
32. THE PROJECT IS ELIGIBLE TO RECEIVE PARTIAL FUNDING FROM THE FEDERAL GOVERNMENT. THE CONTRACTOR IS ADVISED THAT THE CONTRACT IS SUBJECT PROVISIONS OF THE "BUILD AMERICA, BUY AMERICA ACT" (BABAA). ADDITIONAL INFORMATION REGARDING BABAA CAN BE ACCESSED VIA: WWW.FEMA.GOV/GRANTS/POLICY-GUIDANCE/BUY-AMERICA

REFERENCE NOTES

1. EXISTING TOPOGRAPHIC CONTOUR ELEVATIONS AND PROPOSED ELEVATIONS ARE EXPRESSED IN FEET AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. INDICATED HORIZONTAL COORDINATES ARE EXPRESSED IN FEET AND REFERENCE THE NORTH AMERICAN DATUM OF 1983 (NAD83, 2011), CONNECTICUT STATE PLANE, US FOOT.
3. INDICATED EXISTING ELEVATION DATA FOR FEATURES OTHER THAN CONTOURS ARE BASED ON REVIEW AND SCALING FROM RECORD DOCUMENTS AND MAY REFERENCE OTHER DATUMS. CORRESPONDING DATUMS ARE NOTED IF KNOWN.
4. EXISTING BOUNDARIES, UTILITIES, PIPES, STRUCTURES, PAVEMENTS, AND OTHER SITE FEATURES LOCATED ON AND AROUND THE WPCF WERE DERIVED FROM ELECTRONIC COPIES OF DRAWINGS BY CAMP DRESSER & MCKEE INC. (CDM), ENTITLED "TOWN OF STRATFORD, CONNECTICUT - CONTRACT NO. 06-01 - WATER POLLUTION CONTROL FACILITY UPGRADE" AS BUILT, DATED MARCH 2006, REVISED AUGUST 23, 2010 (CONTRACT NO. 06-01 DRAWINGS), AND PROVIDED TO GZA BY THE TOWN OF STRATFORD.
5. PROPERTY DATA ARE BASED ON REVIEW AND SCALING OF ASSESSOR'S PARCEL DATA ACCESSED ELECTRONICALLY FROM CTECO.UCONN.EDU AND STRATFORDCT.GOV FROM JUNE TO JULY 2022; AND ELECTRONIC COPIES OF THE CONTRACT NO. 06-01 DRAWINGS PROVIDED BY THE TOWN OF STRATFORD.
6. EXISTING GEOTECHNICAL INFORMATION REFERENCED FROM GEOTECHNICAL DESIGN REPORT BY CDM, ENTITLED "TOWN OF STRATFORD WATER POLLUTION CONTROL FACILITY UPGRADE, STRATFORD CONNECTICUT," DATED AUGUST 12, 2005.
7. EXISTING ALIGNMENTS AND STATIONING, EXISTING LEVEE AND DIKE CONSTRUCTION, AND EXISTING SITE INFORMATION INFORMATION ARE BASED ON REVIEW AND SCALING OF ELECTRONIC COPIES OF SCANNED DRAWINGS BY CE MAGUIRE, ENTITLED "HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT," DATED JULY 1975.
8. EXISTING TOPOGRAPHIC INFORMATION DEPICTED WAS PROVIDED BY THE CAPITOL REGION COUNCIL OF GOVERNMENTS, 2016 STATEWIDE LIDAR DATA, RETRIEVED FROM HTTP://CTECO.UCONN.EDU/DATA/FLIGHT2016/INDEX.HTM.
9. EXISTING WETLAND DELINEATION PERFORMED BY STEVEN RIDERDY, M.S., CWB®, PWS, CE, CERP, PSS OF GZA GEOENVIRONMENTAL, INC. ON FEBRUARY 21, 2020.
10. THESE DRAWINGS ARE NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY METHOD USED.
11. REFERENCED STANDARDS: REFERENCES HEREIN TO ANY TECHNICAL SOCIETY, ORGANIZATION, GROUP OR BODY ARE MADE IN ACCORDANCE WITH THE FOLLOWING ABBREVIATIONS AND, UNLESS OTHERWISE NOTED OR SPECIFIED, ALL WORK UNDER THIS SECTION SHALL CONFORM TO THE LATEST EDITION AS APPLICABLE:

AA:	THE ALUMINUM ASSOCIATION
AASHTO:	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ACI:	AMERICAN CONCRETE INSTITUTE
AISC:	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AOAC:	ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS
ASCE:	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM:	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS:	AMERICAN WELDING SOCIETY
CSBC:	CONNECTICUT STATE BUILDING CODE
CTDOT:	CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES FACILITIES AND INCIDENTAL CONSTRUCTION (FORM 819)
FEMA:	FEDERAL EMERGENCY MANAGEMENT AGENCY
IBC:	INTERNATIONAL BUILDING CODE
SSPC:	SOCIETY FOR PROTECTIVE COATINGS
USACE:	UNITED STATES ARMY CORPS OF ENGINEERS

LEGEND

- EXISTING 1-FT INTERVAL ELEVATION CONTOUR (FEET, NAVD88)
- 5 EXISTING 5-FT INTERVAL ELEVATION CONTOUR (FEET, NAVD88)
- 5 PROPOSED 1-FT INTERVAL CONTOUR (FEET, NAVD88)
- COASTAL JURISDICTION LINE (CJL)
- SPRING HIGH TIDE LINE (SHTL)
- FEMA FLOOD HAZARD BOUNDARY
- PL APPROXIMATE PROPERTY LINE
- GUARD RAIL
- TIMBER FENCE / RAIL
- X X FENCE LINE / METAL FENCE
- TREE LINE / VEGETATED AREA
- S SANITARY SEWER LINE
- G G NATURAL GAS LINE
- W W WATER MAIN
- D D DRAIN LINE
- OHW OVERHEAD WIRES
- HYDRANT
- CATCH BASIN
- STORMWATER DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- UTILITY POLE
- GUYED UTILITY POLE
- LP LIGHT POLE
- TREES
- wf,#18 C-6 WETLAND BOUNDARY/FLAGS
- GZ-12 BORING LOCATION
- TP-10 TEST PIT LOCATION
- G.T.D. GRADE TO DRAIN
- PROPOSED SLOPE INDICATOR
- CO PROPOSED CLEANOUT LOCATION

NO.	ISSUE/DESCRIPTION	BY	DATE
2.	ISSUED FOR BID	AJK	1/29/2026
1.	ISSUED FOR REGULATORY REVIEW	AJK	1/29/2025

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

WATER POLLUTION CONTROL FACILITY FLOOD PROTECTION SYSTEM IMPROVEMENTS, STRATFORD, CONNECTICUT
100% DESIGN DRAWINGS, JULY 2024 - CONTRACT #: 2026-15

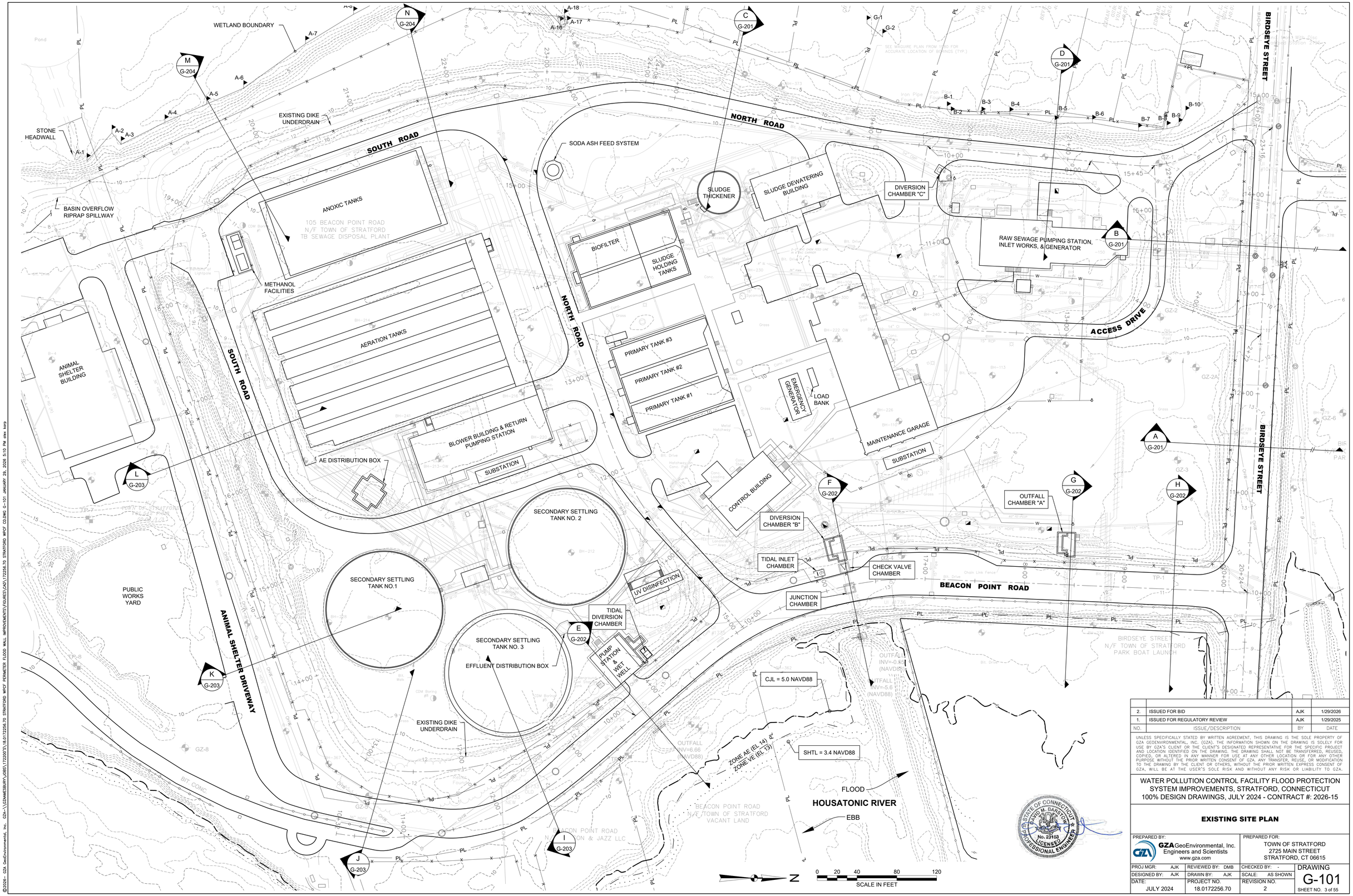
GENERAL NOTES

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
TOWN OF STRATFORD
2725 MAIN STREET
STRATFORD, CT 06615

PROJ MGR: AJK	REVIEWED BY: DMB	CHECKED BY: -	DRAWING G-002
DESIGNED BY: AJK	DRAWN BY: AJK	SCALE: AS SHOWN	
DATE: JULY 2024	PROJECT NO. 18.0172256.70	REVISION NO. 2	SHEET NO. 2 of 55

© 2026 – GZA GeoEnvironmental, Inc. G2A-\\GZAMESBWPV\JOBS\172256\70 STRATFORD WPCF PERIMETER FLOOD WALL IMPROVEMENTS\FIGURES\CAD\172256.70 STRATFORD WPCF CD.DWG G–002 JANUARY 29, 2026 5:09 PM alex kerp



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WATER POLLUTION CONTROL FACILITY FLOOD PROTECTION SYSTEM IMPROVEMENTS, STRATFORD, CONNECTICUT
100% DESIGN DRAWINGS, JULY 2024 - CONTRACT #: 2026-15

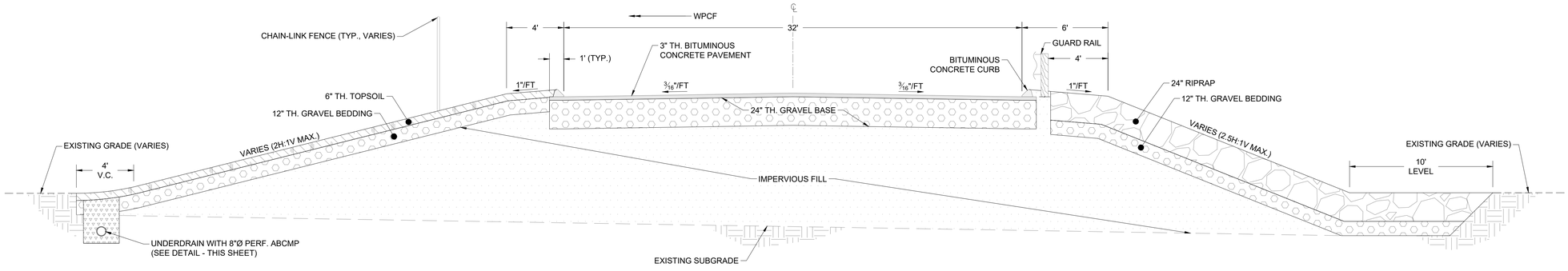
EXISTING SITE PLAN

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

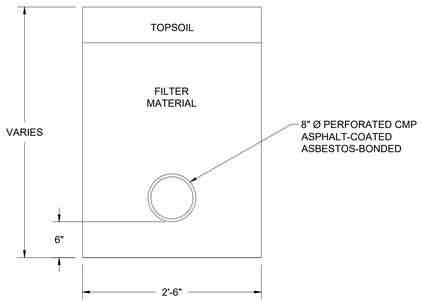
PREPARED FOR:
TOWN OF STRATFORD
2725 MAIN STREET
STRATFORD, CT 06615

PROJ MGR: AJK	REVIEWED BY: DMB	CHECKED BY: -	DRAWING G-101
DESIGNED BY: AJK	DRAWN BY: AJK	SCALE: AS SHOWN	
DATE: JULY 2024	PROJECT NO. 18.0172256.70	REVISION NO. 2	SHEET NO. 3 of 55

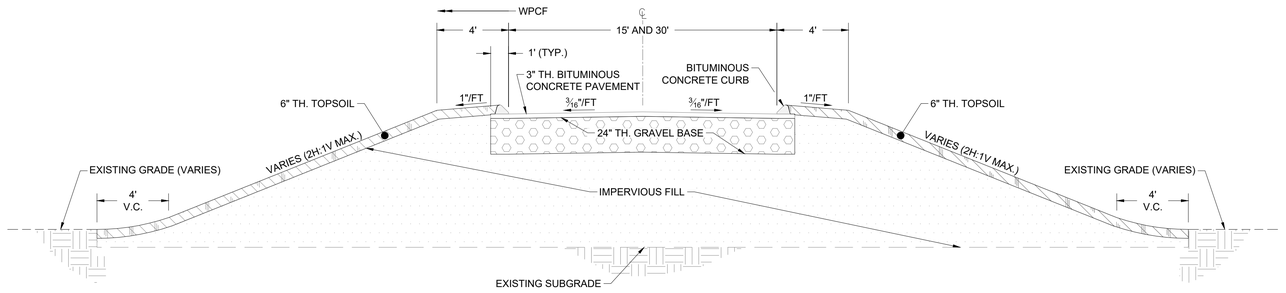
©2026 – GZA GeoEnvironmental, Inc. G:\ZAMESBURY\JOBS\172256\70 STRATFORD WPCF PERIMETER FLOOD WALL IMPROVEMENTS\FIGURES\CAD\172256.70 STRATFORD WPCF CD/DWG G-101 JANUARY 29, 2026 5:10 PM alex.korp



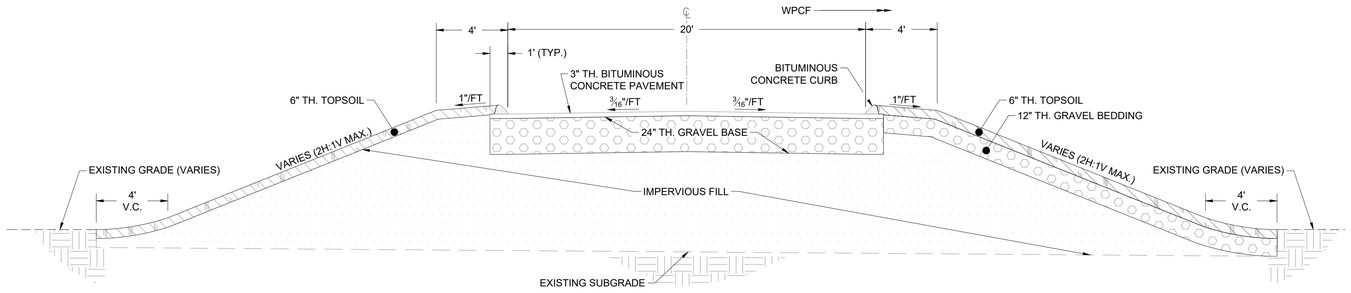
BIRDSEYE STREET AND BEACON POINT ROAD
NOT TO SCALE



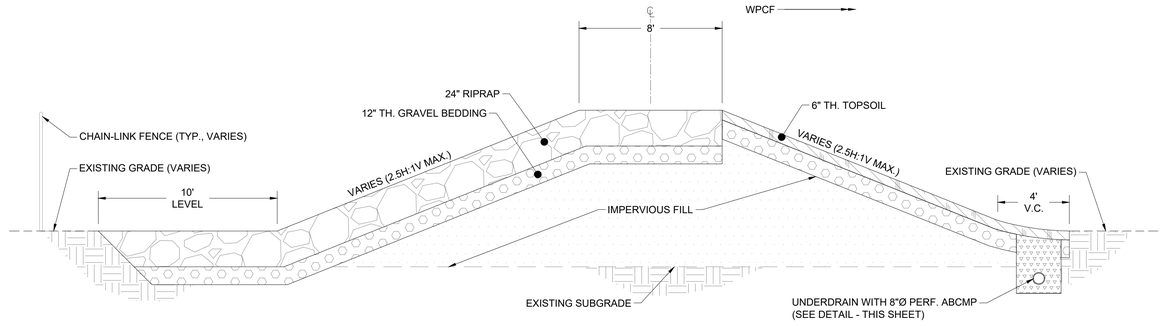
TYPICAL DETAIL - EXISTING UNDERDRAIN
NOT TO SCALE



ACCESS DRIVE
NOT TO SCALE



NORTH ROAD
NOT TO SCALE



RIPRAP FACED EARTH DIKE
NOT TO SCALE

NOTES:

1. TYPICAL SECTIONS AND DETAILS ARE BASED ON A DRAWING BY CE MAGUIRE, INC., ENTITLED "TOWN OF STRATFORD, CONNECTICUT - HURRICANE PROTECTION FOR WATER POLLUTION CONTROL PLANT - CONTRACT NO. 12," DATED 1974. ACTUAL CONDITIONS MAY VARY.

NO.	ISSUE/DESCRIPTION	BY	DATE
2.	ISSUED FOR BID	AJK	1/29/2026
1.	ISSUED FOR REGULATORY REVIEW	AJK	1/29/2025

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WATER POLLUTION CONTROL FACILITY FLOOD PROTECTION SYSTEM IMPROVEMENTS, STRATFORD, CONNECTICUT
100% DESIGN DRAWINGS, JULY 2024 - CONTRACT #: 2026-15

EXISTING FLOOD PROTECTION TYPICAL SECTIONS AND DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
TOWN OF STRATFORD
2725 MAIN STREET
STRATFORD, CT 06615

PROJ MGR: AJK	REVIEWED BY: DMB	CHECKED BY: -	DRAWING G-102
DESIGNED BY: AJK	DRAWN BY: AJK	SCALE: AS SHOWN	
DATE: JULY 2024	PROJECT NO. 18.0172256.70	REVISION NO. 2	SHEET NO. 4 of 55

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