

CITY OF TAUNTON MASSACHUSETTS

WASTEWATER TREATMENT FACILITY

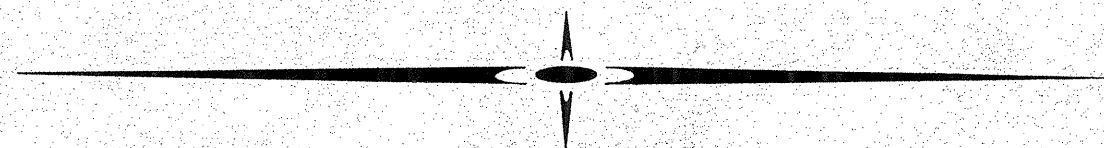
ADDITIONS AND IMPROVEMENTS

EPA NO. C250302-01

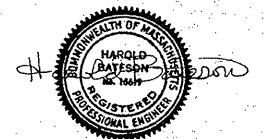


HONORABLE THEODORE J. ALEIXO, JR., MAYOR
BOARD OF SEWER COMMISSIONERS

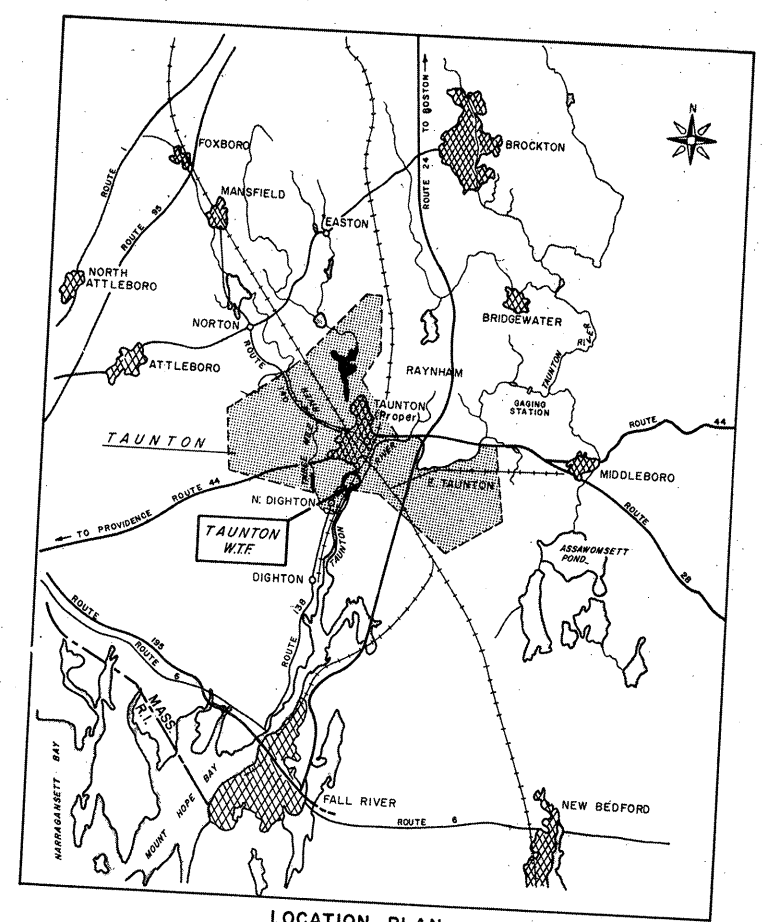
CHARLES A. PERRY, CHAIRMAN
JOHN ABREAU PETER H. CORR



CE MAGUIRE INC
ENGINEERS ARCHITECTS PLANNERS
PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS. MIAMI, FLA.



ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED



NOTE
 1, FOR ACTUAL SLUDGE STORAGE AREA SEE DWG. G-19 FOR DETAILS.
 2, FOR REFERENCE SEE DWG. G-3 AND G-5 FOR WORK LIMIT AND SITE DETAILS.

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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



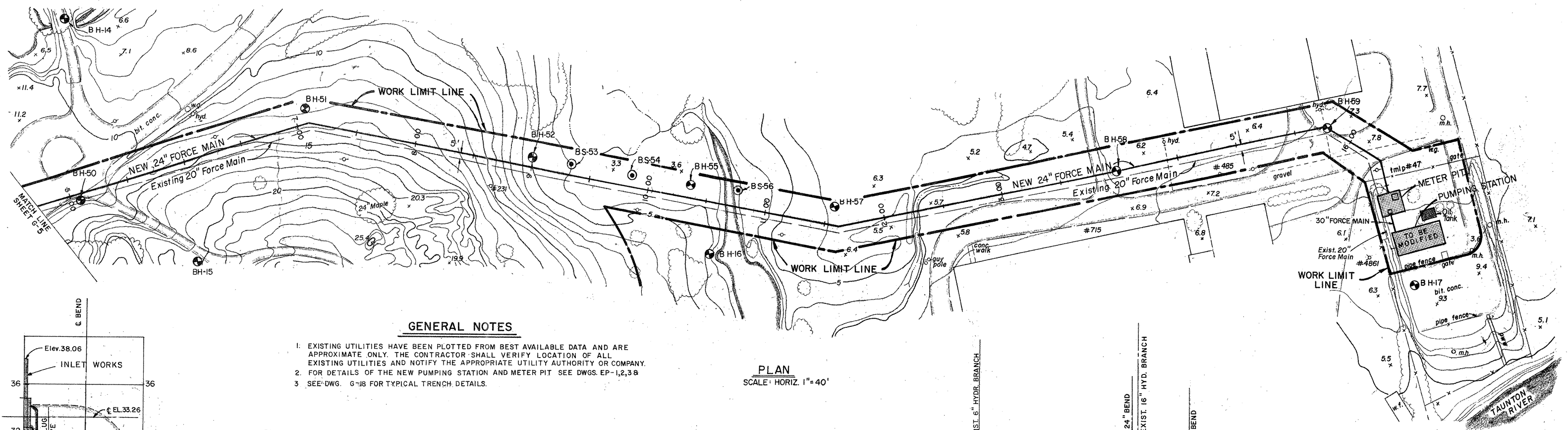
DRAWN: F. BLANCO DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSPRING, MASS.

APPROVED

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 GENERAL

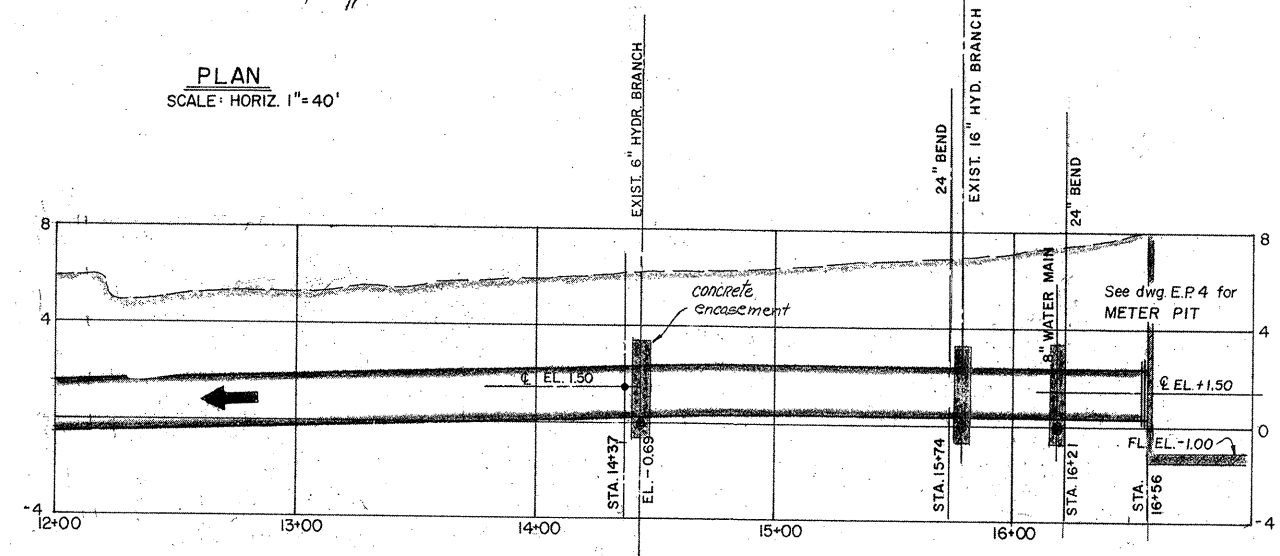
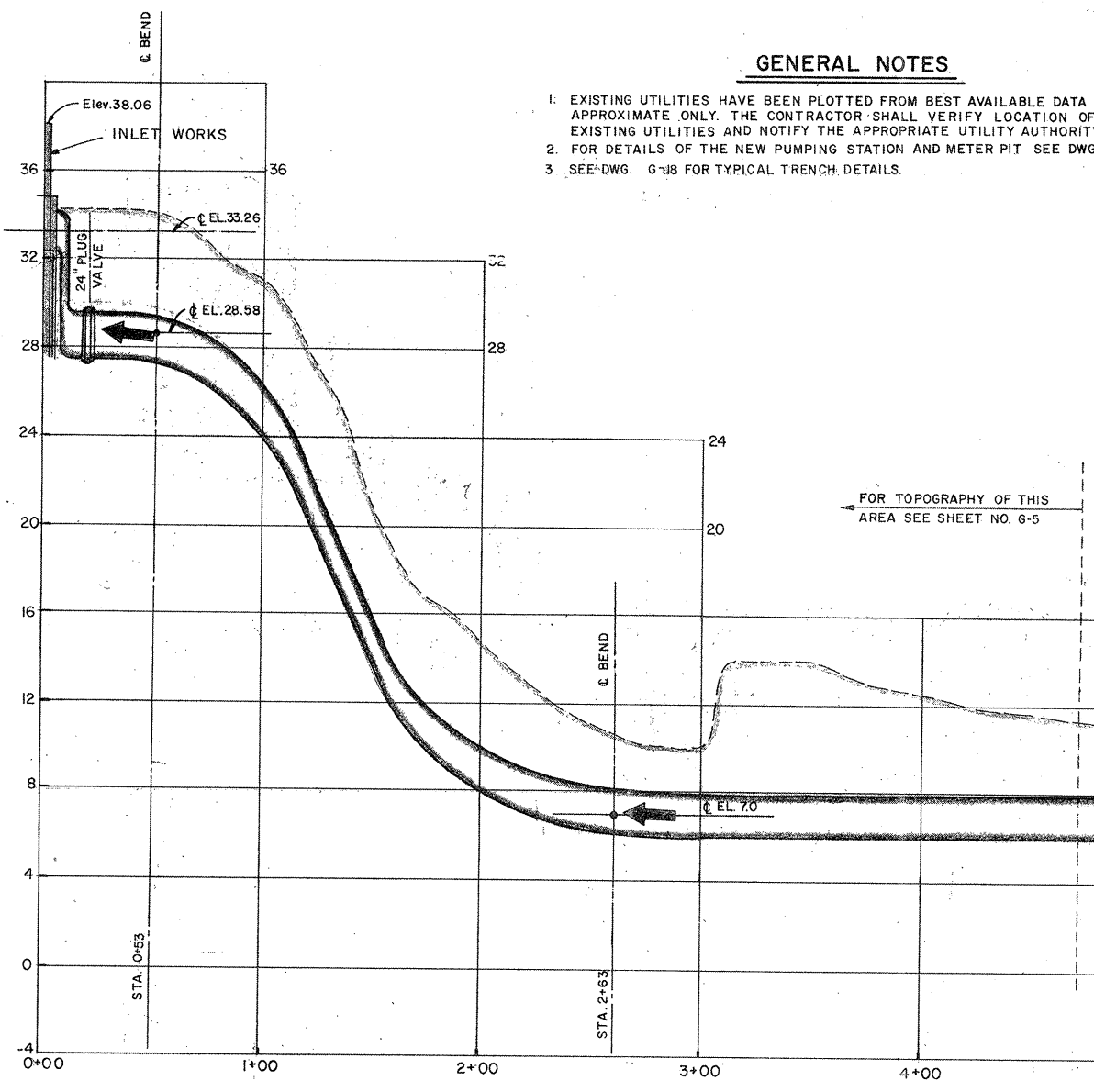
SCALE:
 AS NOTED
CEM NO. 1981



GENERAL NOTES

- EXISTING UTILITIES HAVE BEEN PLOTTED FROM BEST AVAILABLE DATA AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY THE APPROPRIATE UTILITY AUTHORITY OR COMPANY.
- FOR DETAILS OF THE NEW PUMPING STATION AND METER PIT SEE DWGS. EP-1,2,3 &
- SEE DWG. 6-18 FOR TYPICAL TRENCH DETAILS.

PLAN
SCALE: HORIZ. 1" = 40'



ATTENTION
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PROFILE OF NEW 24" FORCE MAIN

SCALE: HOR. 1" = 40'
VERT. 1" = 4'

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



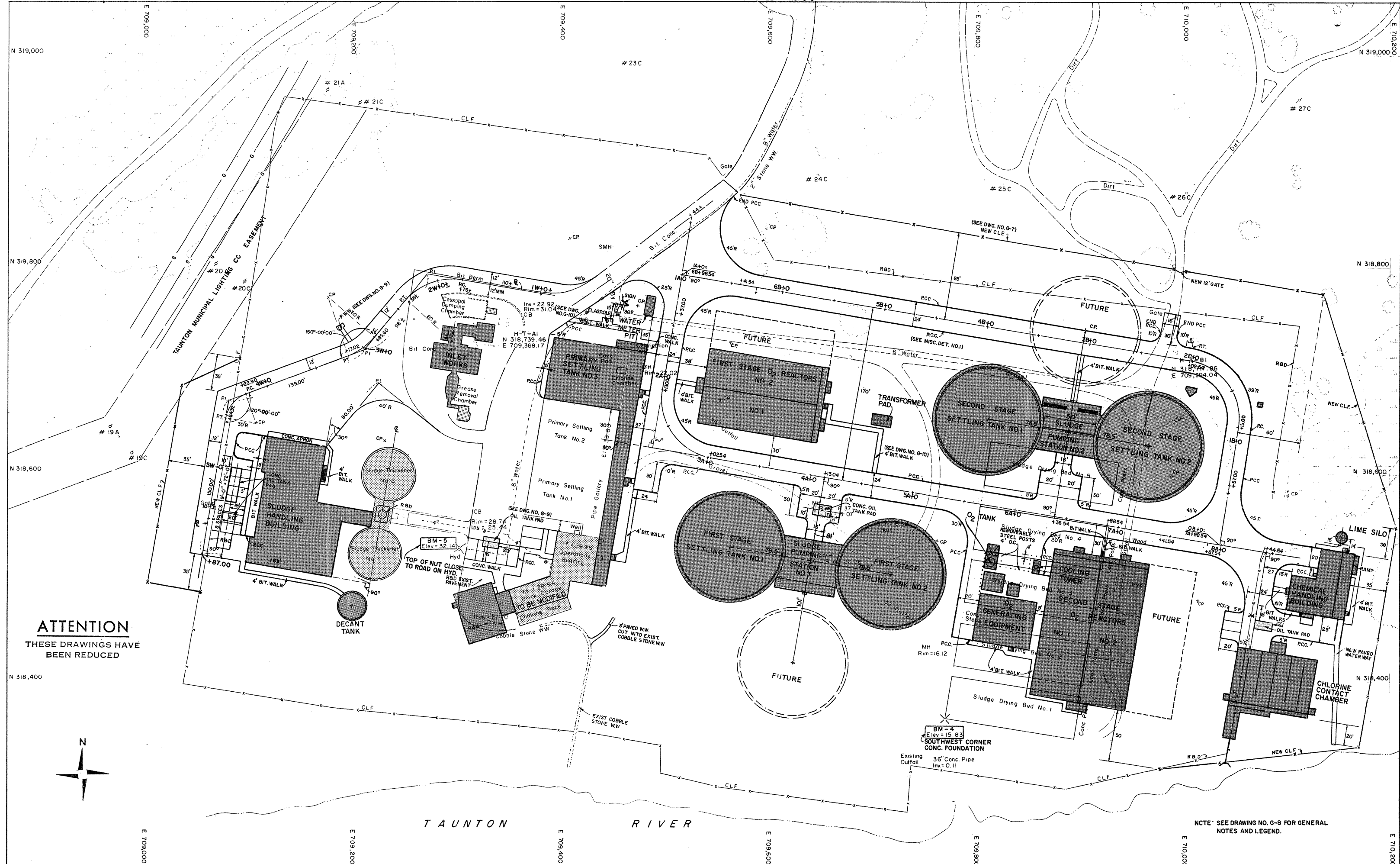
DRAWN: F. OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED

 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 GENERAL
PROPOSED FORCE MAIN
PLAN & BORINGS

SCALE:
 HORIZ. 1" = 40'
 VERT. 1" = 4'-0"
 CEM NO. 1981
 DRAWING NO.
G-3



ATTENTION
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 BEEN REDUCED

NCTE: SEE DRAWING NO. G-8 FOR GENERAL NOTES AND LEGEND.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: T. DRURY DESIGNED: W. SCHWANER
 CHECKED: J. TONDREAU APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS-ENGINEERS-PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

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CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

GENERAL

LOCATION PLAN

SCALE
 1" = 40'

CEM NO. 1961

DRAWING NO.
G-4

- NOTE:**
- SEE HEATING & VENTILATING PLANS FOR OIL STORAGE TANKS, SIZES, & UNDERGROUND PIPING.
 - ALL EXISTING SLUDGE DRYING BEDS SHALL BE REMOVED & DISPOSED; SEE SPECIFICATIONS.
 - SEE DWG. NO. G-8 FOR LEGEND AND GENERAL NOTES.
 - DATUM OF LEVELS IS M.H.W. 64.
 - UNLESS OTHERWISE SPECIFIED, ALL DISTURBED AREAS SHALL BE LOAMED AND SEED AS PER SPECIFICATIONS.
 - STONEDUST MOWING STRIP (SEE DWG. NO. G-9) AS INDICATED NEAR STRUCTURES.



TAUNTON RIVER

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: T. DRURY
CHECKED: J. TONDREAU
DATE: JULY, 1974

DESIGNED: W. SCHWANER
T. DRURY
APPROVED: W. HUNDLEY

CE MAGUIRE, INC.
ARCHITECTS-ENGINEERS-PLANNERS
PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED

CITY OF TAUNTON

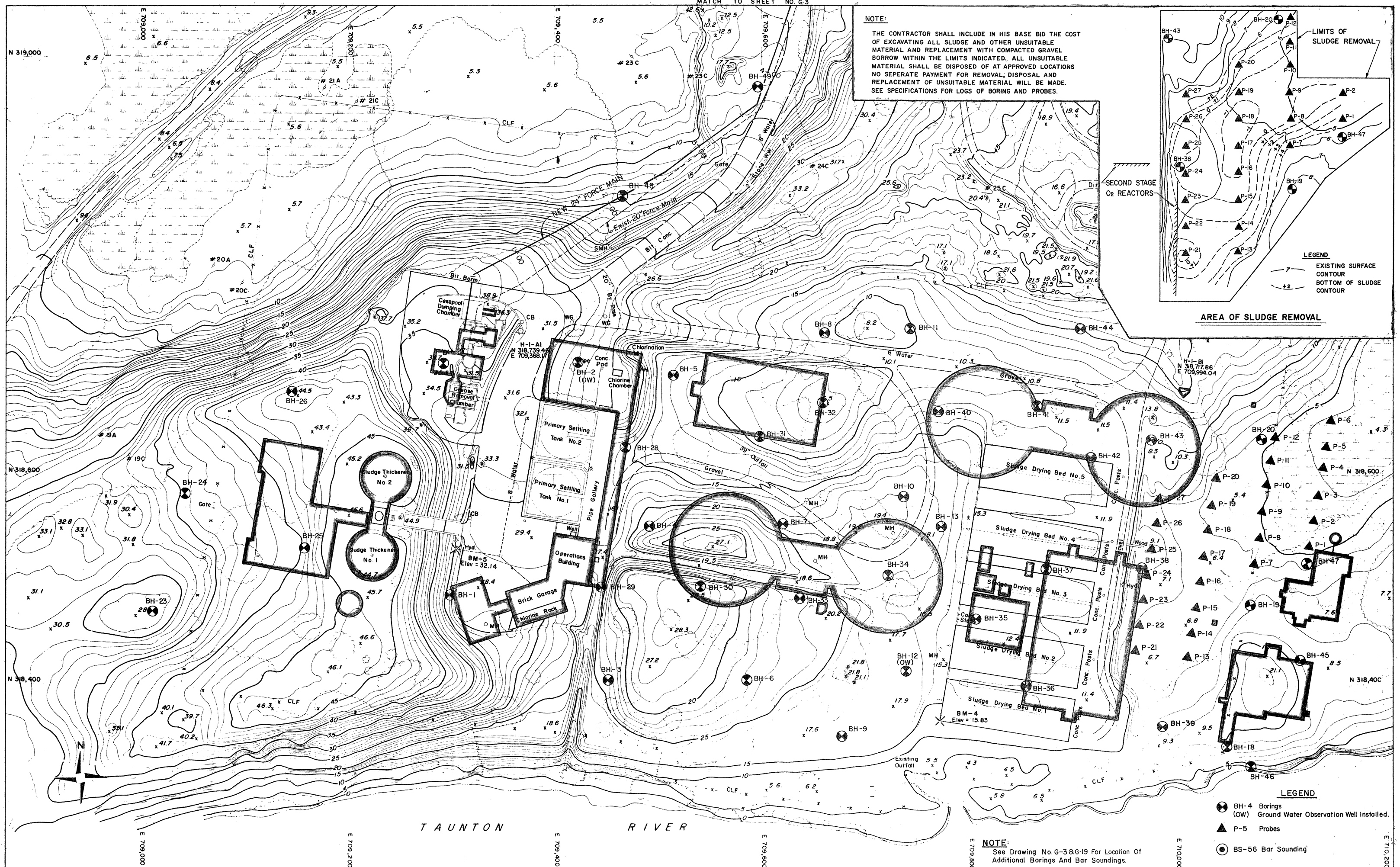
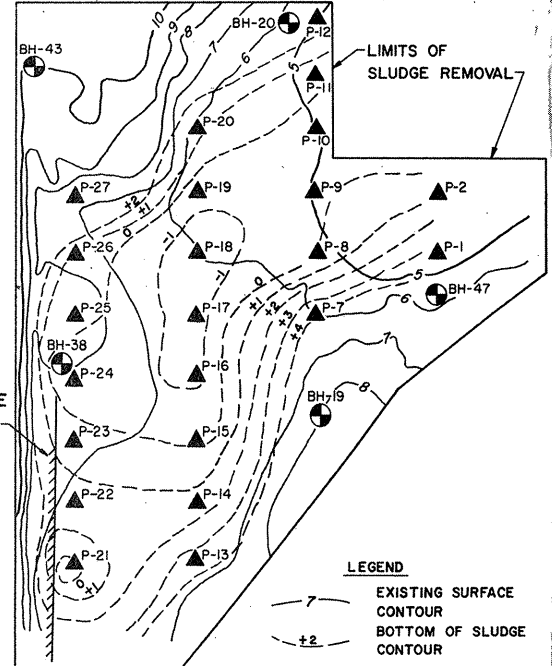
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS

GENERAL

GRADING & UTILITY PLAN

SCALE:
1" = 40'
CEM NO. 1981
DRAWING NO.
G-5

NOTE:
 THE CONTRACTOR SHALL INCLUDE IN HIS BASE BID THE COST OF EXCAVATING ALL SLUDGE AND OTHER UNSUITABLE MATERIAL AND REPLACEMENT WITH COMPACTED GRAVEL BORROW WITHIN THE LIMITS INDICATED. ALL UNSUITABLE MATERIAL SHALL BE DISPOSED OF AT APPROVED LOCATIONS. NO SEPARATE PAYMENT FOR REMOVAL, DISPOSAL AND REPLACEMENT OF UNSUITABLE MATERIAL WILL BE MADE. SEE SPECIFICATIONS FOR LOGS OF BORING AND PROBES.



LEGEND
 ⊗ BH-4 Borings (OW) Ground Water Observation Well Installed.
 ▲ P-5 Probes
 ⊙ BS-56 Bar Sounding

NOTE:
 See Drawing No. G-3 & G-19 For Location Of Additional Borings And Bar Soundings.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: FOAKES & S. ESPOSITO DESIGNED: J. MAYNARD
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS - ENGINEERS - PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

ATTENTION
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APPROVED: _____
 CITY OF TAUNTON

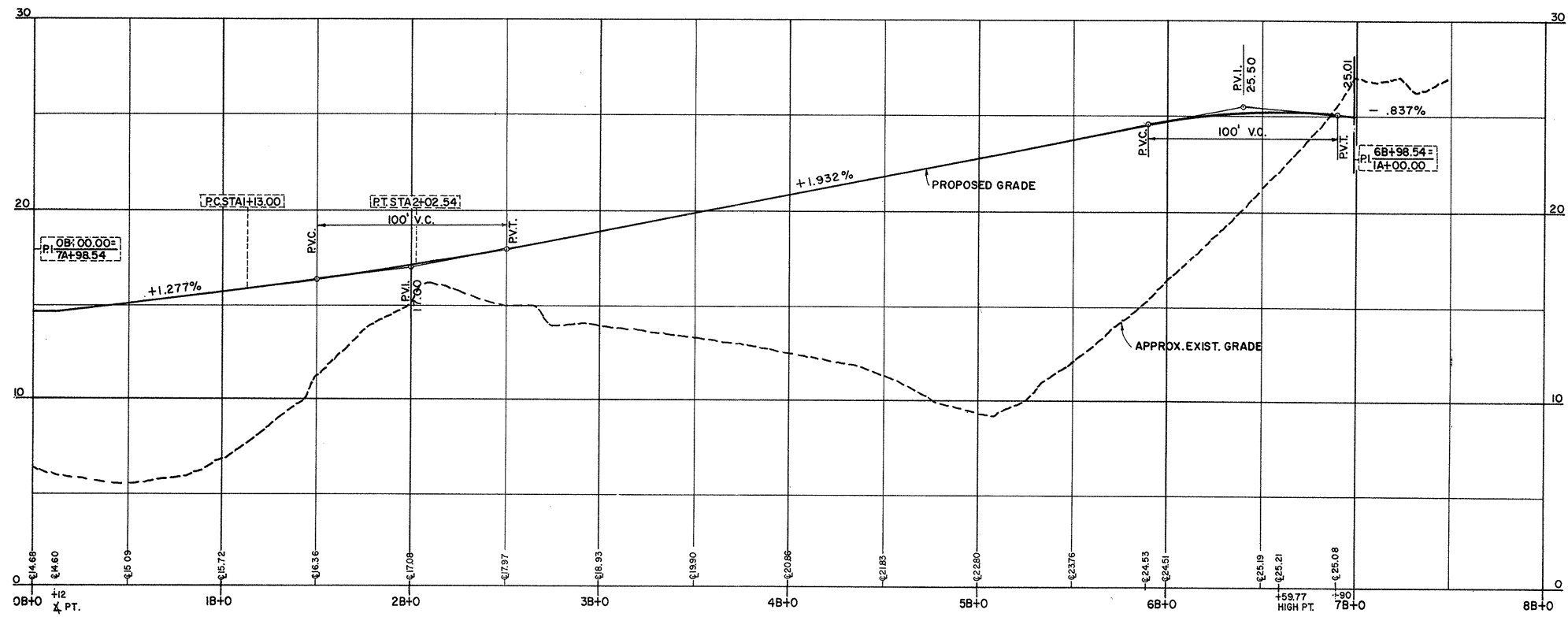
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

GENERAL
BORING LOCATION PLAN

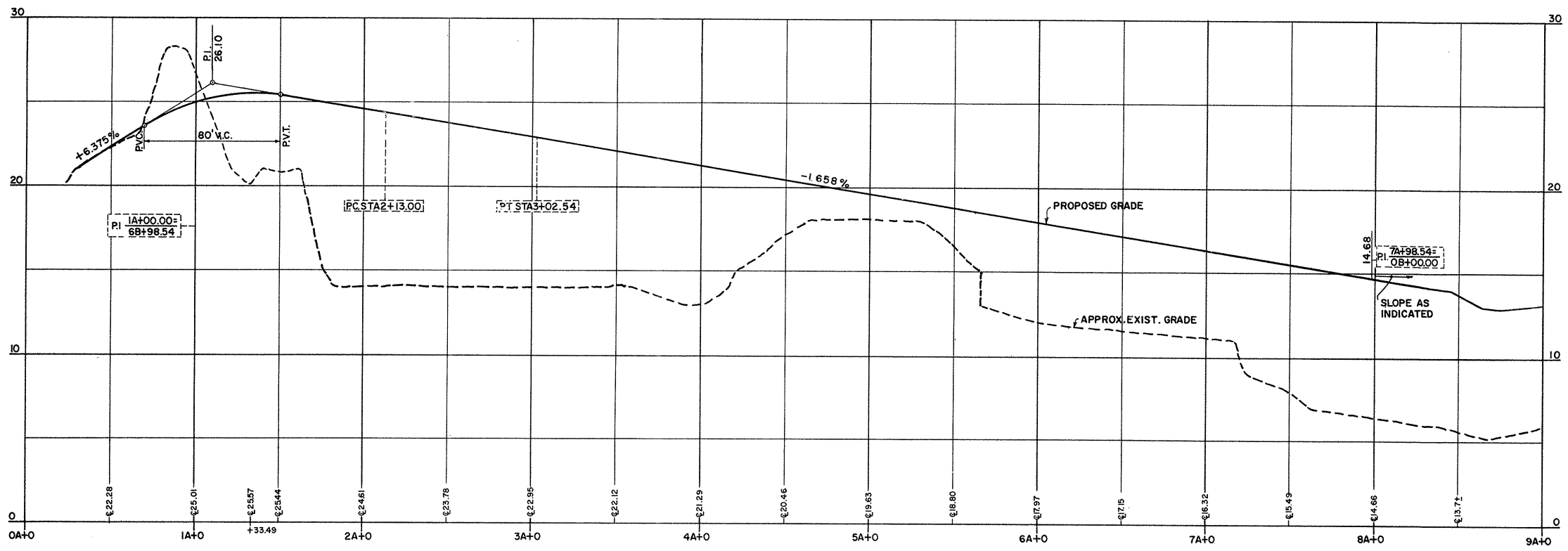
SCALE:
 1" = 40'

CEM NO. 1981

DRAWING NO.
G-6



ROAD "B"
 SCALE: HOR. 1" = 40'
 VERT. 1" = 4'



ROAD "A"
 SCALE: HOR. 1" = 40'
 VERT. 1" = 4'

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DRAWN: T. DRURY DESIGNED: W. SCHWANER
 CHECKED: J. TONDREAU APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED *Christina S. King*
 CITY OF TAUNTON

CITY OF TAUNTON MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

GENERAL

PROFILE SHEET NO. 1

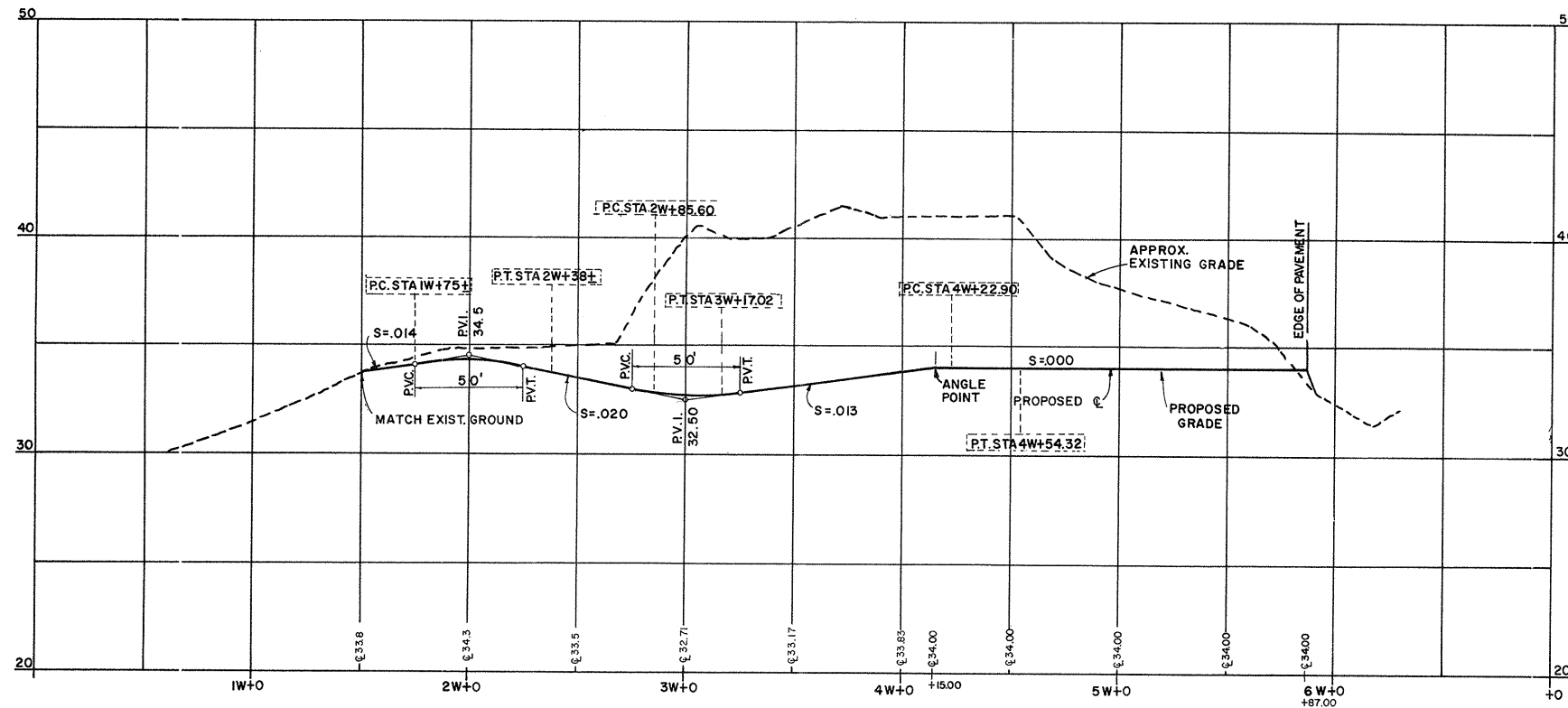
SCALE
 AS NOTED

CEM NO. 1981

DRAWING NO.
G-7

GENERAL NOTES

1. ALL SURFACES DAMAGED OUTSIDE THE INDICATED WORK LIMITS SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
2. CLEARING AND GRUBBING LIMITS SHALL EXTEND TO 5' BEYOND THE TOE OR TOP OF SLOPE OF EMBANKMENT OR FILL AREAS UNLESS OTHERWISE SPECIFIED.
3. EXISTING UTILITIES HAVE BEEN PLOTTED FROM THE BEST AVAILABLE DATA AND ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND NOTIFY THE APPROPRIATE UTILITY AUTHORITY OR COMPANY UPON RECEIPT OF NOTICE TO PROCEED. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY. THE COST OF ANY DAMAGES SHALL BE BORNE BY THE CONTRACTOR.
4. DISTURBED OR FILL AREAS BEYOND TOES AND TOPS OF ROADWAY SLOPES SHALL HAVE THE TOPSOIL REPLACED TO A MIN. 4" DEPTH AND SEEDED AS PER SPECIFICATIONS.
5. ALL UTILITY WORK OTHER THAN AS SHOWN OR SPECIFIED, SHALL BE BY OTHERS.
6. FOR TYPICAL ROADWAY SECTION SEE THIS SHEET
7. AT LOCATIONS SHOWN ON THE PLANS OR DIRECTED, A CLEAN SAW CUT SHALL BE MADE TO SEPERATE THE REMAINING PAVEMENT FROM THAT BEING REMOVED.
8. TRENCHES SHALL BE SHEETED WHERE INDICATED, REQUIRED OR DIRECTED.
9. BORING LOGS ARE INCLUDED IN THE SPECIFICATIONS.
10. ALL TOPSOIL NOT USED SHALL BE STOCKPILED ON SITE, WHERE DESIGNATED BY THE OWNER.
11. ALL EARTHWORK SHALL BE IN ACCORDANCE WITH SPECIFICATIONS SECTION ENTITLED "EARTHWORK, COFFERDAMS AND DEWATERING."
12. WHERE EXISTING MATERIALS ARE ENCOUNTERED, WHICH, IN THE OPINION OF THE OWNER, ARE UNSUITABLE FOR BEDDING OR OTHER INTENDED USE; SUCH MATERIALS SHALL BE REMOVED AS DIRECTED AND REPLACED WITH COMPACTED GRAVEL BEDDING.
13. WHERE TIMBER SHEETING IS USED, PORTIONS SHALL BE LEFT IN PLACE. SEE DWG. NO. G-9.

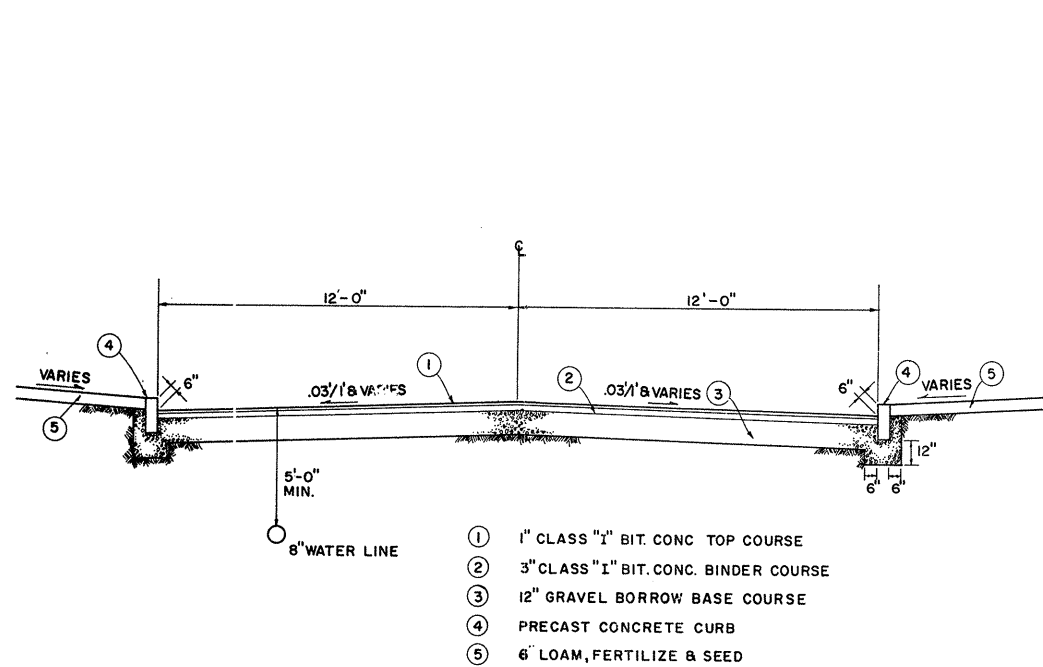


ROADWAY "W" PROFILE

SCALE: HOR. 1" = 40'-0"
VERT 1" = 4'-0"

LEGEND

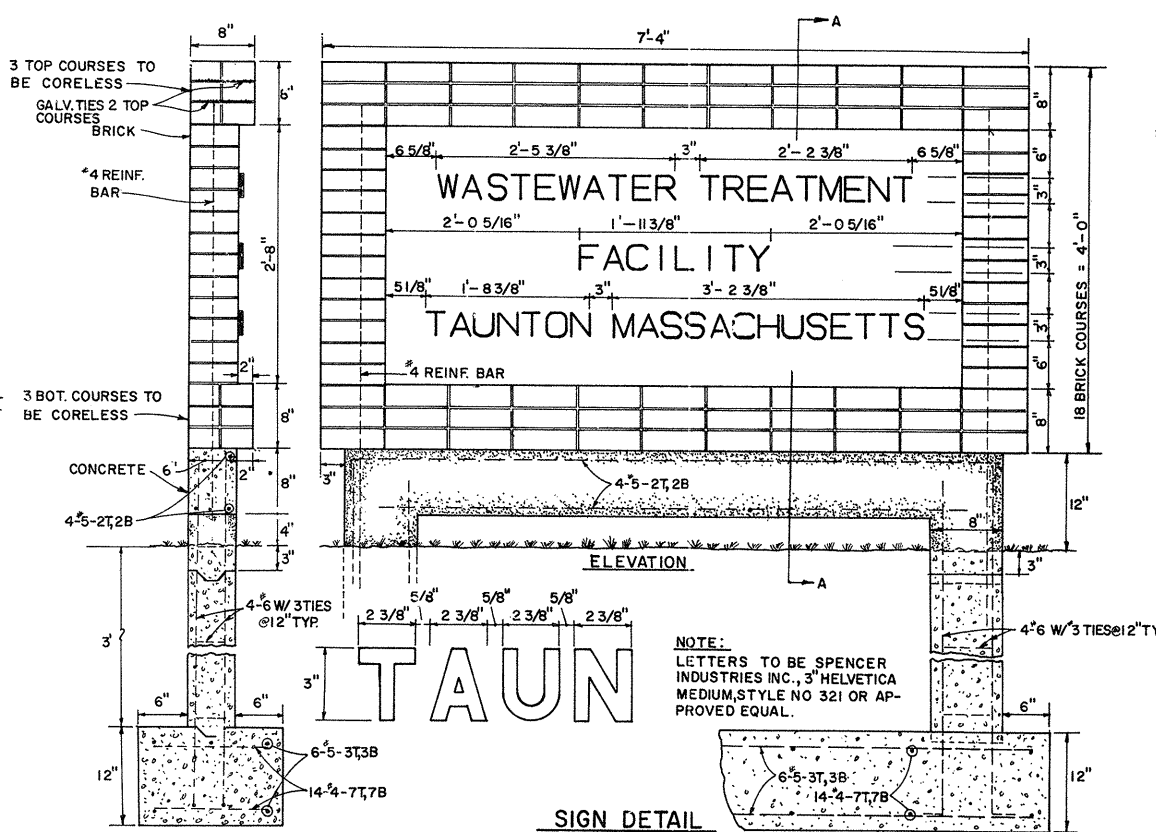
EXISTING		PROPOSED
---W---8"---O---	WATER LINE & VALVE	---W---8"---■---
---	STORM OR ROOF DRAIN	---D---
---	REMOVE & DISPOSE	R&D
---	WATERWAY	W.W.
---	PRECAST CONCRETE CURB	---P.C.C.---
x-x-x-x-x	CHAIN LINK FENCE (C.L.F)	x-x-x-x-x
⊕	HYDRANT & VALVE	⊕
□	CATCH BASIN C.B.	■
○	MANHOLE M.H.	○
*	LIGHT POLE	*
---	EDGE OF PAVEMENT	---
---20---	VITRIFIED CLAY PIPE	V.C.
---	REINFORCED CONCRETE PIPE	R.C.P.
---	COUNTOUR	---20---
---	BASE LINE	---
---	CENTERLINE	---
---	JUTE MESH NETTING	---
---	WORK LIMIT LINE	---



TYPICAL SECTION

SCALE 1/4" = 1'-0"

1. 1" CLASS "I" BIT. CONC. TOP COURSE
2. 3" CLASS "I" BIT. CONC. BINDER COURSE
3. 12" GRAVEL BORROW BASE COURSE
4. PRECAST CONCRETE CURB
5. 6" LOAM, FERTILIZE & SEED



SIGN DETAIL

NOT TO SCALE

ATTENTION
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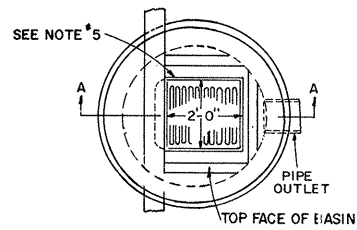
DRAWN: T. DRURY DESIGNED: W. SCHWANER
 CHECKED: J. TONDREAU APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles W. Long
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
GENERAL
PROFILE SHEET NO.2

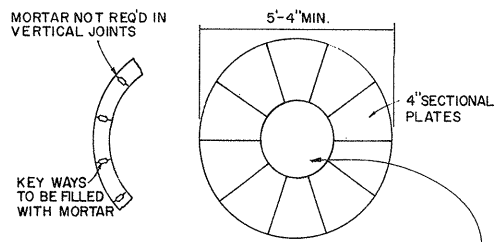
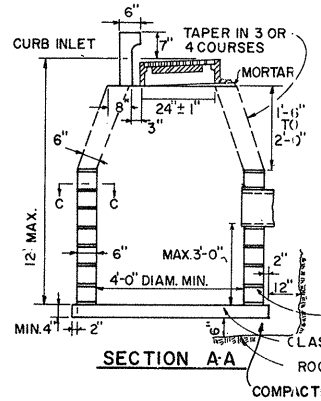
SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
G-8



NOTES:

- BRICKS MAY BE USED BETWEEN TOP COURSE AND C.B. FRAME FOR GRADE ADJUSTMENT FRAME SHALL BE SET IN FULL BED OF CEMENT MORTAR.
- FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHODS, SEE SPECIFICATIONS.
- DETAILS SHOWN ON MASS. STD. 202.4.0, 202.5.0, 202.6.0

BASIN WITH CURB INLET



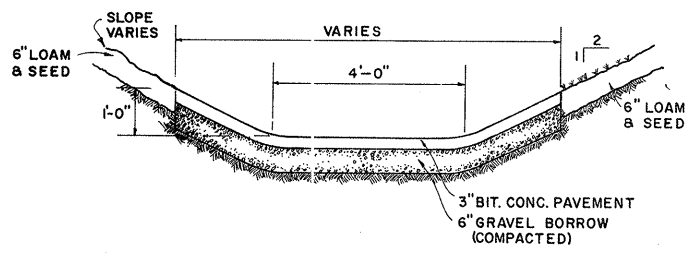
SECTION C-C

SOLID SECTION, OR FILL HOLE WITH BRICK AND MORTAR OR FILL WITH CLASS A OR D CONCRETE (IF CONCRETE IS HAND MIXED SEE SECTION E6.25 OF 1965 SPECIFICATIONS)

BLOCKS TO BE SET IN FULL BED OF CEMENT MORTAR CLASS A OR D CEM. CONG. OR PRECAST CONC. SECTIONAL PLATES SEE ABOVE.

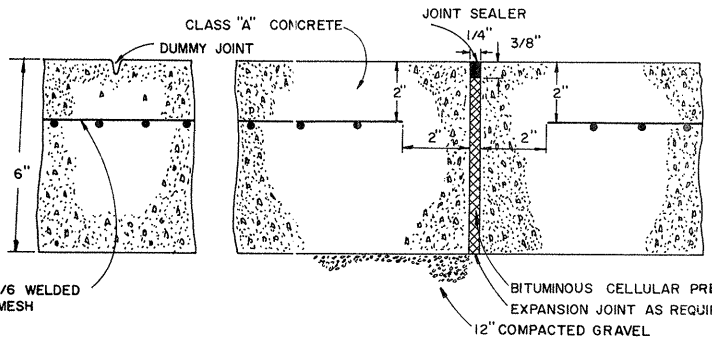
CONCRETE BLOCK CATCH BASIN

(MASS. STD. 202.2.0) NOT TO SCALE



PAVED WATERWAY

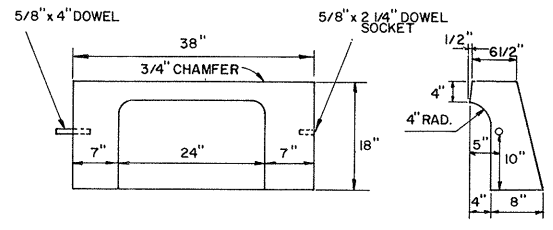
NOT TO SCALE



CEMENT CONCRETE PAD DETAIL

NOT TO SCALE

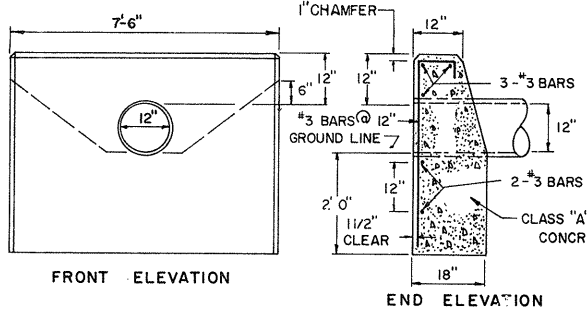
NOTE: ALL JOINTING MATERIAL AND REINFORCING WILL BE INCLUDED IN THE UNIT PRICE PER SQUARE YARD OF CONCRETE.



PRECAST CONCRETE APRON STONE

NOT TO SCALE

NOT: FOR OTHER SIZES REFER TO MASS. STD. 211.1.0

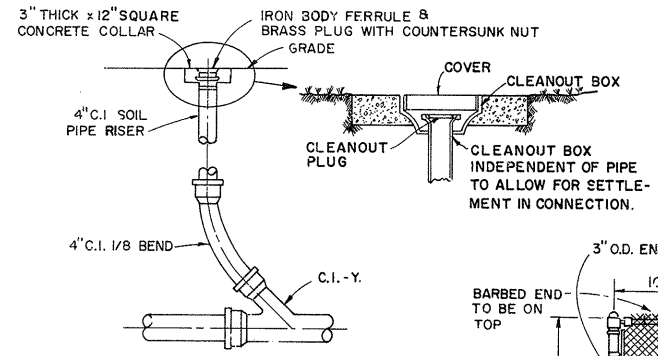


PRECAST CONCRETE CURB

NOT TO SCALE

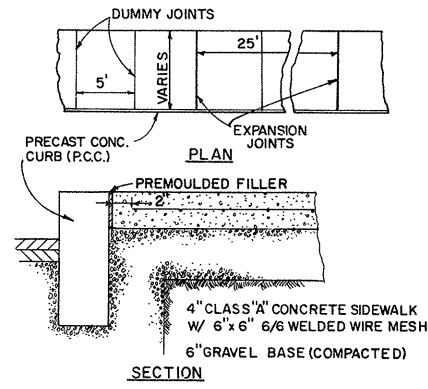
CONCRETE HEADWALL

MASS. STD. 211.1.0 NOT TO SCALE



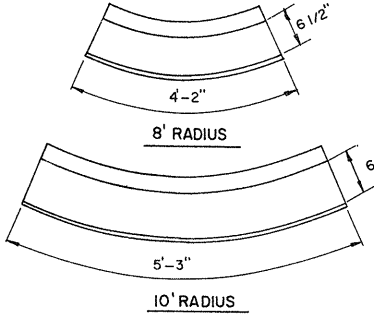
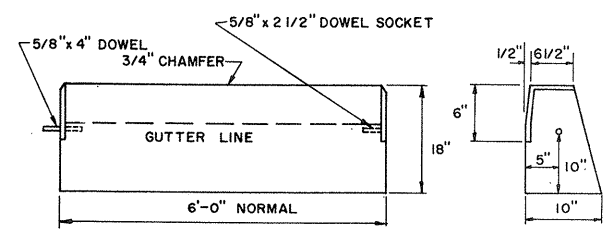
ROOF DRAIN CLEAN OUT

NOT TO SCALE

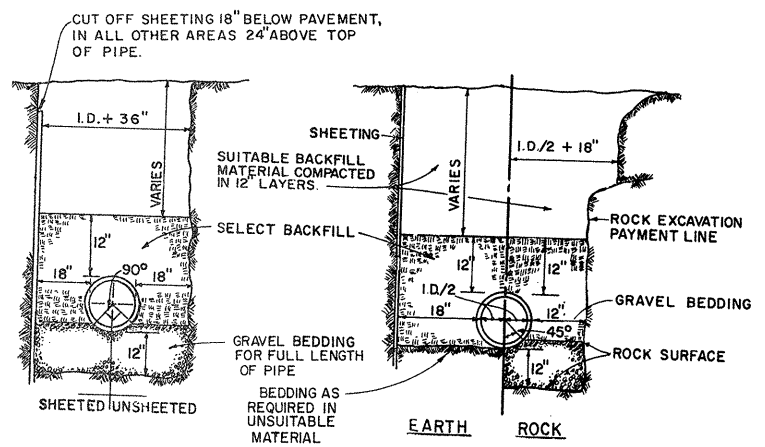


CONCRETE SIDEWALK DETAIL

NOT TO SCALE

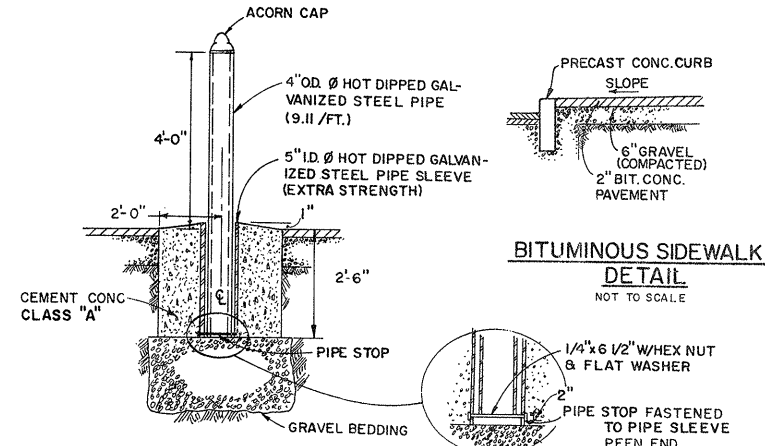


- MAXIMUM LENGTHS USING 8' & 10' RADII WITH 90° ANGLE, ARE 4'-2" & 5'-3" RESPECTIVELY.
- MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 4'-0"
- EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH
- CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160' OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160' RADIUS.



TYPICAL TRENCH SECTION

NOT TO SCALE

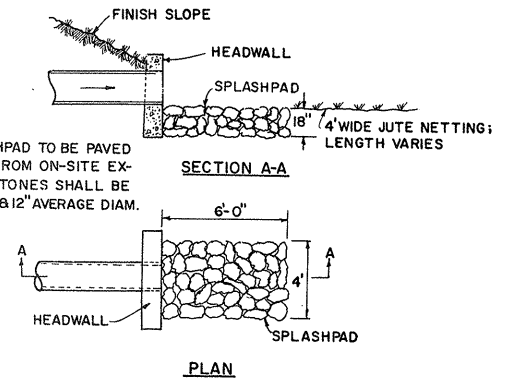


REMOVABLE POST DETAIL

NOT TO SCALE

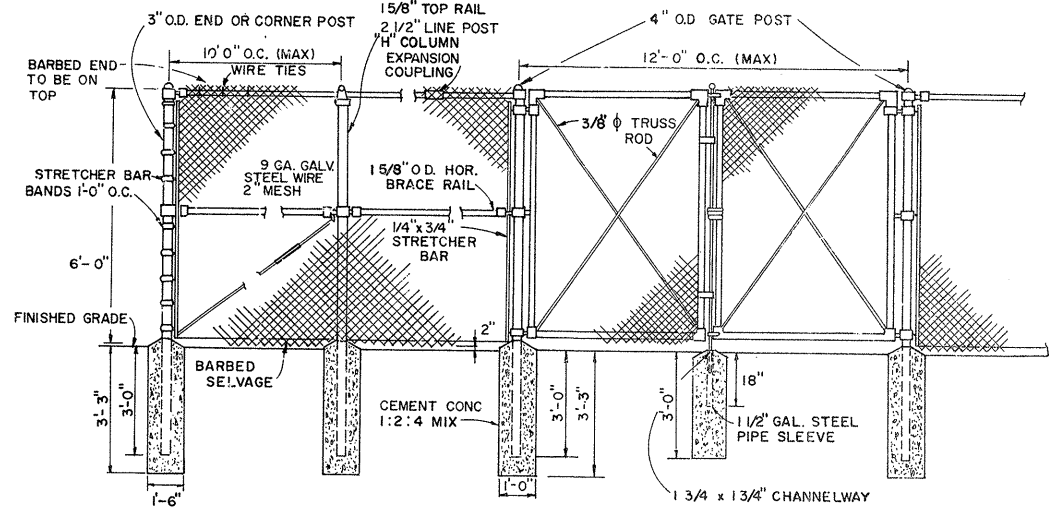
BITUMINOUS SIDEWALK DETAIL

NOT TO SCALE



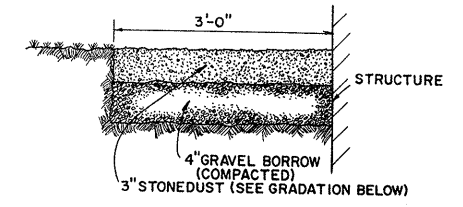
SPLASHPAD DETAIL

NOT TO SCALE



6' CHAIN LINK FENCE AND GATE DETAIL

NOT TO SCALE



STONE SCREENING SHALL BE COMPOSED OF CLEAN, HARD, DURABLE STONE AND SHALL BE THE PRODUCT OF A STONE CRUSHER. STONE SCREENINGS SHALL CONFORM TO THE FOLLOWING GRADATION LIMITS:

U.S. STANDARD SIEVE SIZE	PERCENT PASSING BY WEIGHT
3/4"	100%
3/8"	60-100%
NO. 4	40-60%
NO. 10	20-40%
NO. 20	10-25%
NO. 60	0-15%
NO. 200	NOT MORE THAN 7%

STONEDUST MOWING STRIP

NOT TO SCALE

ATTENTION

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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: R. DZIKIEWICZ DESIGNED: W. SCHWANER
 CHECKED: J. TONDREAU APPROVED: T. DRURY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

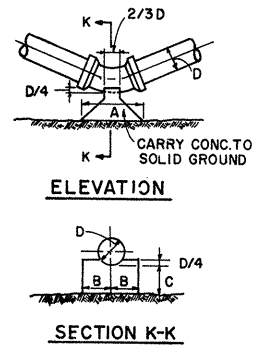
APPROVED _____
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

GENERAL

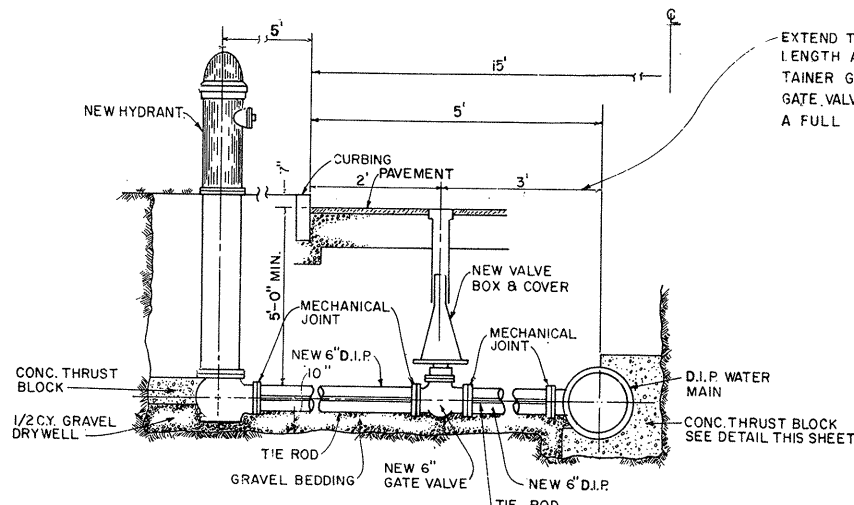
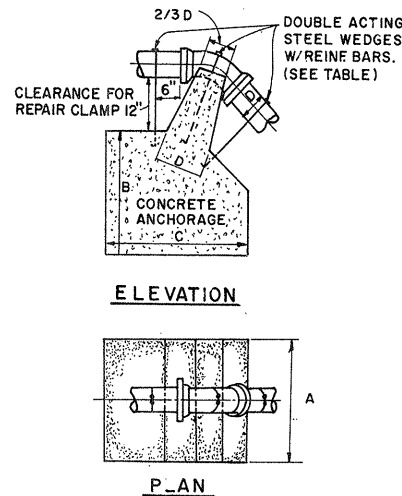
MISCELLANEOUS DETAILS NO. 1

SCALE AS NOTED
 CEM NO. 1981
 DRAWING NO. **G-9**



NOTE!
 EMBED REINF. BARS 30 DI-AMETERS AND PAINT EXPOSED BARS WITH TWO COATS OF APPROVED BITUMINOUS PAINT.

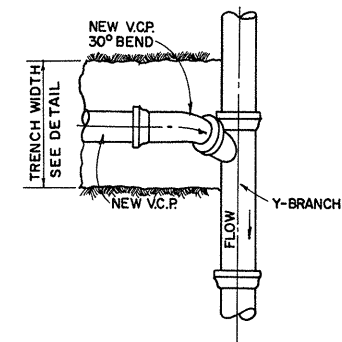
SIZE	REINFORCING BARS		
	1/8	1/16	1/32
4"	3-6	3-6	3-6
6"	3-6	3-6	3-6
8"	3-6	3-6	3-6
10"	3-6	3-6	3-6
12"	3-6	3-6	3-6



EXTEND TIE RODS ONE FULL PIPE LENGTH AND ATTACH TO JOINT RETAINER GLAND WHEN DISTANCE FROM GATE VALVE TO MAIN IS GREATER THAN A FULL PIPE LENGTH.

ITEM SCHEDULE

- ① 8" x 24" WALL PIPE
- ② 8" DUCTILE IRON PIPE
- ③ 8" x 8" TEE
- ④ 8" GATE VALVE
- ⑤ 8" DETECTOR WATER METER
- ⑥ 8" BACKFLOW PREVENTOR
- ⑦ 8" 90° ELBOW
- ⑧ 8" BY-PASS LINE
- ⑨ 4" DETECTOR WATER METER
- ⑩ 4" 90° ELBOW
- ⑪ 4" GATE VALVE
- ⑫ 4" CHECK VALVE
- ⑬ 24" x 48" FRAME & COVERS ("NEENAH", R-1877 OR APPROVED EQUAL)
- ⑭ ALUMINUM STEPS TO BE "ALCOA" 6061-T6 NO. 12653 B OR APPROVED EQUAL
- ⑮ 6" DRAIN PIPE WITH GRATE
- ⑯ UNIT HEATER



TYPICAL Y-BRANCH
 NOT TO SCALE

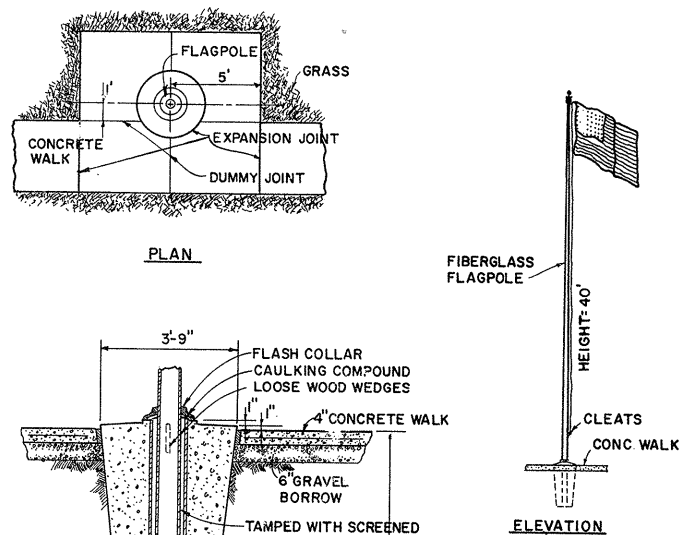
THRUST BLOCKS FOR VERTICAL BENDS

BEND	SIZE					
	4"	6"	8"	12"		
1/8	A	1'-3"	1'-3"	1'-8"	2'-0"	2'-6"
	B	7"	7"	8"	10"	11"
	C	7"	7"	8"	10"	11"
1/16	A	9"	9"	1'-0"	1'-6"	1'-9"
	B	7"	7"	7"	9"	10"
	C	7"	7"	7"	8"	8"
1/32	A	6"	6"	8"	10"	1'-0"
	B	7"	7"	7"	8"	8"
	C	7"	7"	7"	8"	8"

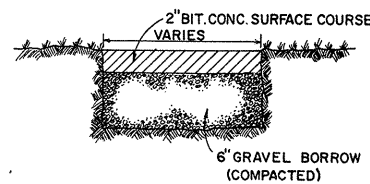
ANCHORAGES FOR VERTICAL BENDS

BEND	SIZE					
	4"	6"	8"	10"	12"	
1/8	A	2'-6"	2'-6"	3'-0"	3'-6"	4'-6"
	B	2'-6"	2'-6"	2'-9"	3'-2"	3'-6"
	C	3'-0"	3'-0"	4'-0"	4'-6"	4'-9"
1/16	A	2'-0"	2'-0"	2'-8"	3'-4"	4'-0"
	B	1'-9"	1'-9"	2'-3"	2'-6"	2'-6"
	C	2'-6"	2'-6"	3'-4"	3'-8"	4'-0"
1/32	A	1'-6"	1'-6"	2'-0"	2'-6"	3'-0"
	B	1'-3"	1'-3"	1'-9"	2'-0"	2'-0"
	C	2'-0"	2'-0"	2'-6"	3'-0"	3'-0"

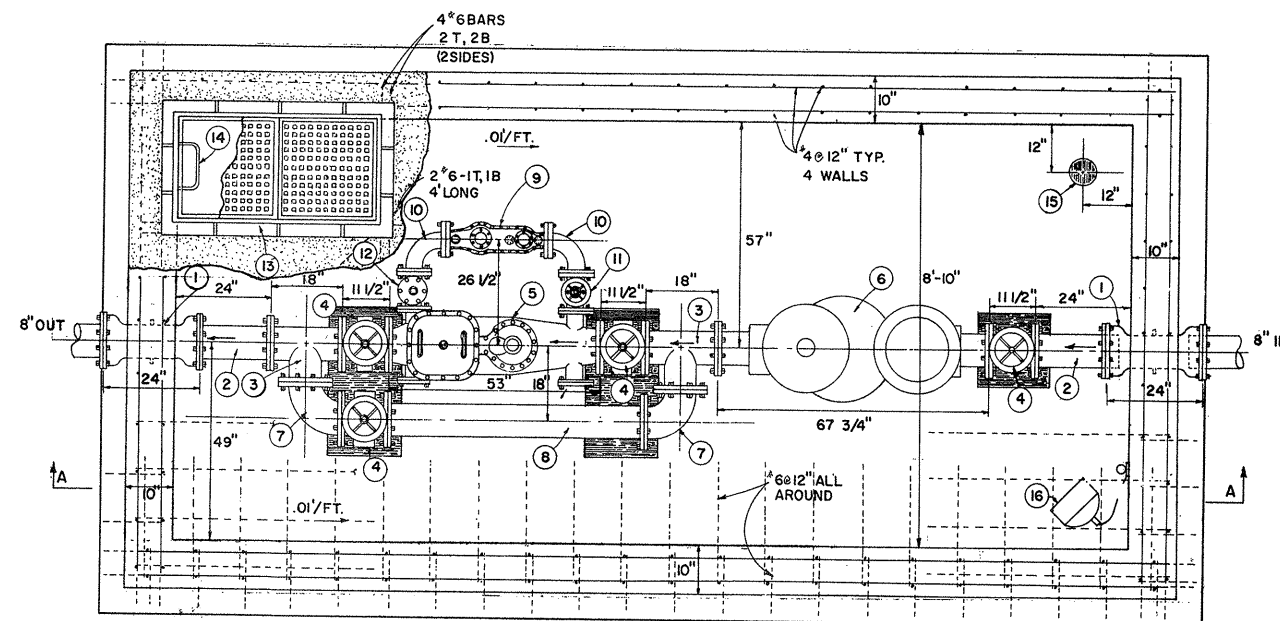
TYPICAL HYDRANT ASSEMBLY
 NOT TO SCALE



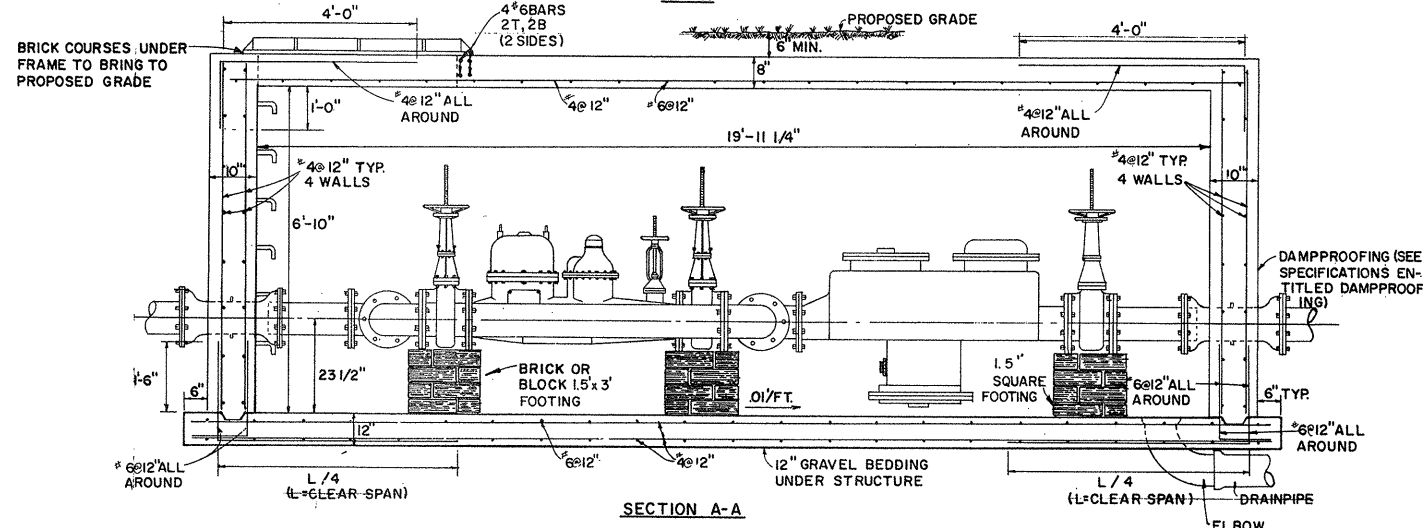
FLAGPOLE DETAILS
 NOT TO SCALE



BITUMINOUS WALKWAY DETAIL
 NOT TO SCALE



PLAN

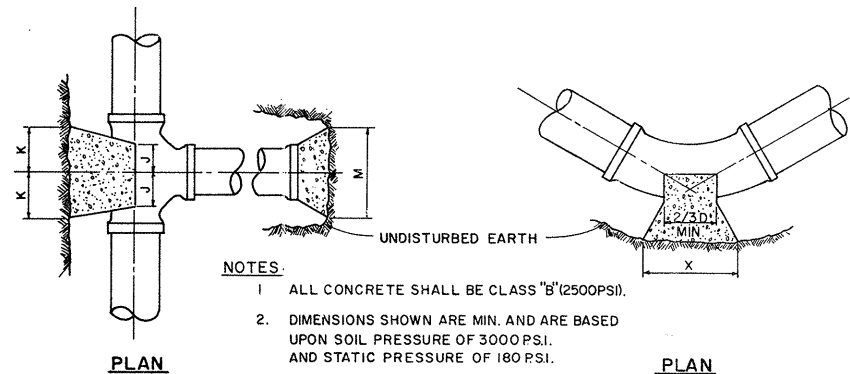


SECTION A-A

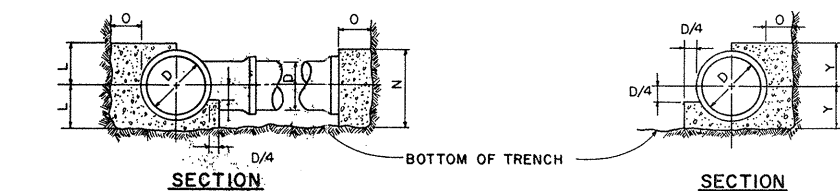
WATER METER PIT DETAIL
 NOT TO SCALE

ATTENTION
 THESE DRAWINGS HAVE BEEN REDUCED

THRUST BLOCKS AND ANCHORAGES FOR VERTICAL BENDS
 NOT TO SCALE



- NOTES:**
- ALL CONCRETE SHALL BE CLASS "B" (2500 PSI).
 - DIMENSIONS SHOWN ARE MIN. AND ARE BASED UPON SOIL PRESSURE OF 3000 PSI. AND STATIC PRESSURE OF 180 PSI.
 - CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH.



SECTION

SECTION

TABLE 1

SIZE OF BRANCH	J	K	L	M	N	O
4"						
6"	8"	8"	10"	1'-8"	1'-2"	8"
8"	10"	10"	1'-0"	2'-0"	1'-6"	10"
12"	1'-0"	1'-2"	1'-3"	3'-0"	2'-0"	1'-2"

TABLE 1

TABLE 2

DIA.	1/4 BEND	1/8 BEND	1/16 BEND	1/32 BEND
DIA.	4" 6" 8" 12"	4" 6" 8" 12"	4" 6" 8" 12"	4" 6" 8" 12"
X	1'-0" 1'-8" 2'-6"	1'-0" 1'-6" 2'-0"	1'-0" 1'-4" 1'-6"	1'-0" 1'-0" 1'-2"
Y	1'-0" 1'-2" 1'-3"	1'-0" 1'-0" 1'-0"	1'-0" 1'-0" 1'-0"	1'-0" 1'-0" 1'-0"

TABLE 2

THRUST BLOCK DETAILS
 NOT TO SCALE

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: T. DRURY DESIGNED: W. SCHWANER
 CHECKED: J. TONDREAU APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

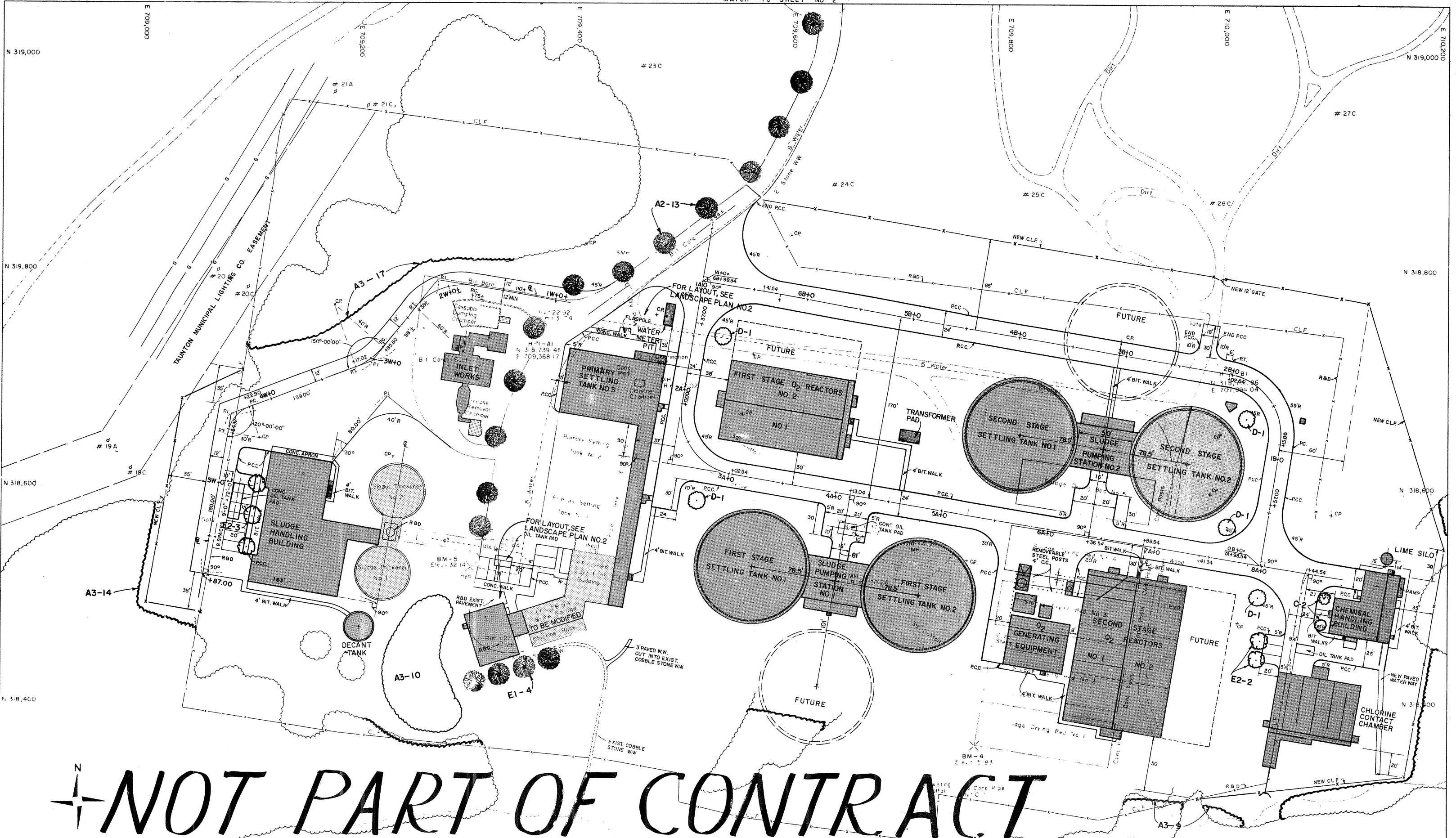
APPROVED

 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

GENERAL
 MISCELLANEOUS DETAILS NO. 2

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
G-10



NOT PART OF CONTRACT

TAUNTON RIVER

ATTENTION
 THESE DRAWINGS HAVE
 BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: T. DRURY DESIGNED: H. K. RAFF
 CHECKED: H. K. RAFF APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS-ENGINEERS-PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

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CITY OF TAUNTON

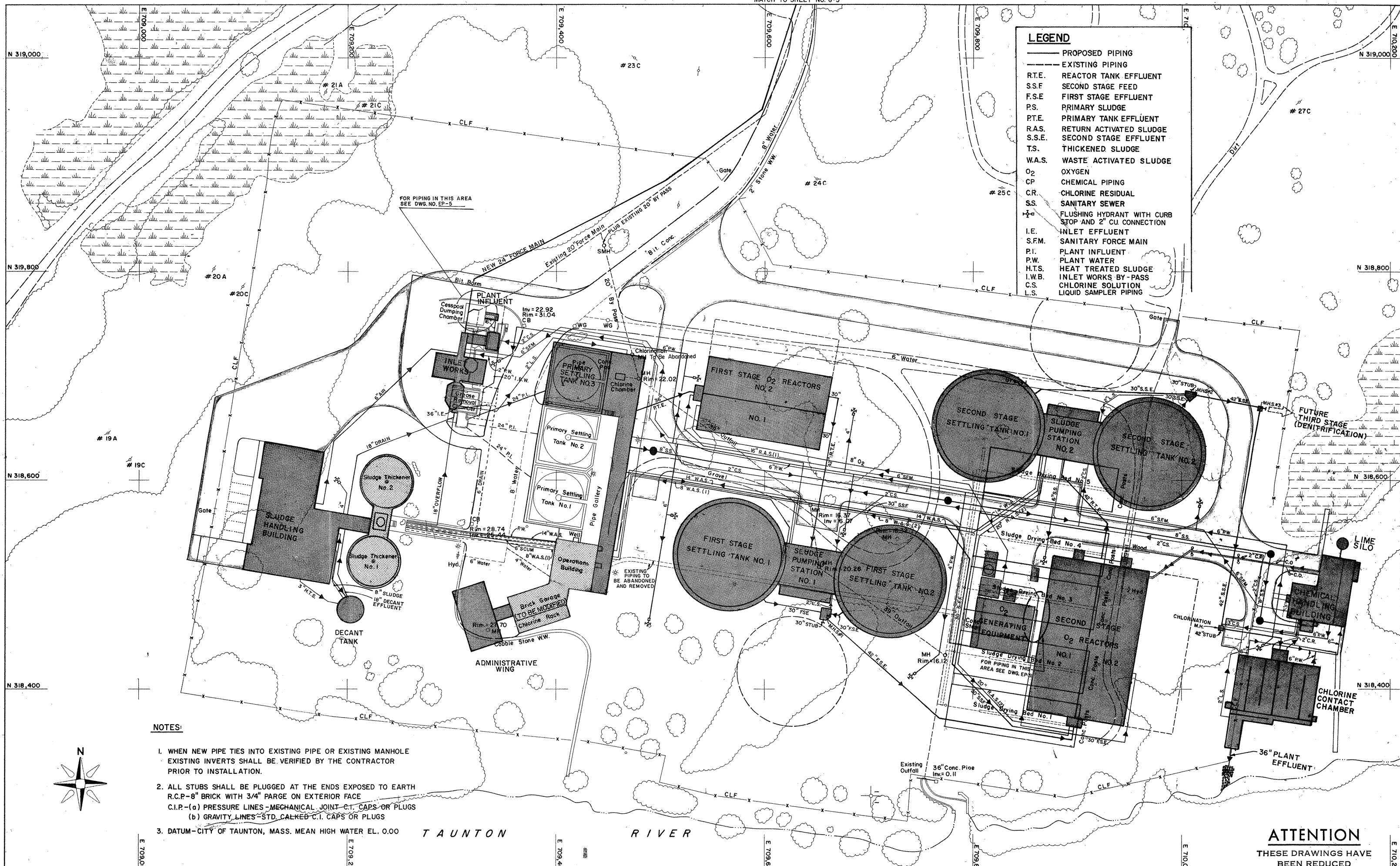
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

GENERAL
NOT PART OF CONTRACT
 LANDSCAPE PLAN NO. 1

SCALE
 1" = 40'

CEM NO. 1981

DRAWING NO.
G-11



LEGEND

- PROPOSED PIPING
- - - EXISTING PIPING
- R.T.E. REACTOR TANK EFFLUENT
- S.S.F. SECOND STAGE FEED
- F.S.E. FIRST STAGE EFFLUENT
- P.S. PRIMARY SLUDGE
- P.T.E. PRIMARY TANK EFFLUENT
- R.A.S. RETURN ACTIVATED SLUDGE
- S.S.E. SECOND STAGE EFFLUENT
- T.S. THICKENED SLUDGE
- W.A.S. WASTE ACTIVATED SLUDGE
- O₂ OXYGEN
- CP CHEMICAL PIPING
- CR. CHLORINE RESIDUAL
- SS. SANITARY SEWER
- ⊕ FLUSHING HYDRANT WITH CURB STOP AND 2" CU CONNECTION
- I.E. INLET EFFLUENT
- S.F.M. SANITARY FORCE MAIN
- P.I. PLANT INFLUENT
- P.W. PLANT WATER
- H.T.S. HEAT TREATED SLUDGE
- I.W.B. INLET WORKS BY-PASS
- C.S. CHLORINE SOLUTION
- L.S. LIQUID SAMPLER PIPING

- NOTES:**
1. WHEN NEW PIPE TIES INTO EXISTING PIPE OR EXISTING MANHOLE EXISTING INVERTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION.
 2. ALL STUBS SHALL BE PLUGGED AT THE ENDS EXPOSED TO EARTH R.C.P.-8" BRICK WITH 3/4" PARGE ON EXTERIOR FACE
C.I.P.-(a) PRESSURE LINES-MECHANICAL JOINT-C.I. CAPS OR PLUGS
(b) GRAVITY LINES-STD. CALKED C.I. CAPS OR PLUGS
 3. DATUM-CITY OF TAUNTON, MASS. MEAN HIGH WATER EL. 0.00

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

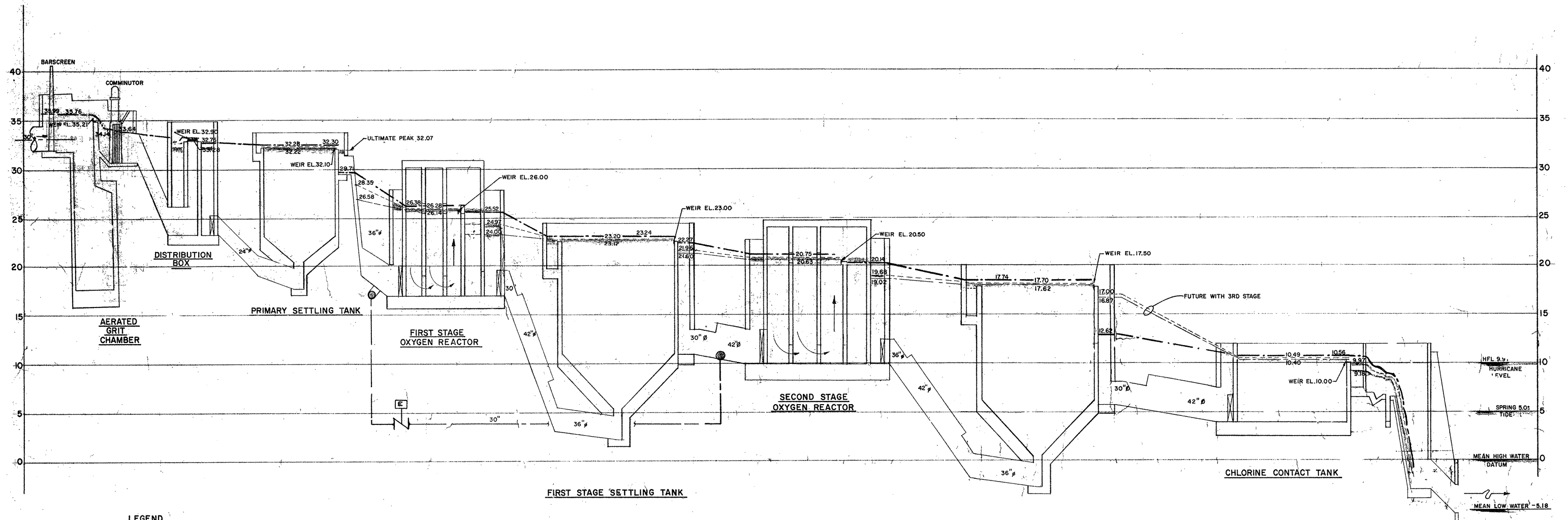
DRAWN: F. OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS-ENGINEERS-PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Lerry
 CITY OF TAUNTON

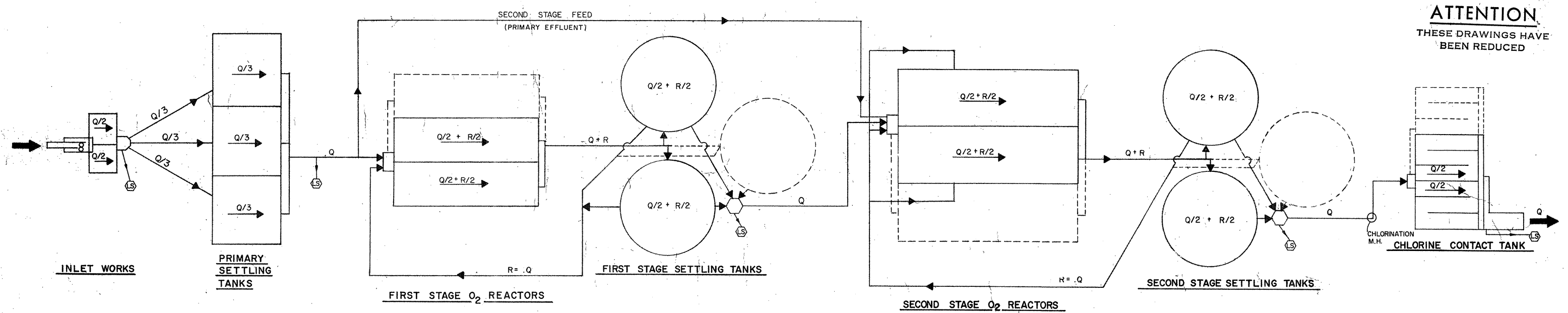
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 GENERAL
 YARD PIPING

SCALE:
 1" = 40'
 CEM NO. 1981
 DRAWING NO.
G-13



LEGEND
 DESIGN PEAK W.L. (17.4 M.G.D.) -----
 DESIGN AVG. W.L. (8.4 M.G.D.) -----
 LIQUID SAMPLER
 DESIGN PEAK (24MGD PLUS RECYCLE BASED ON ONE UNIT IN EACH AREA OUT OF SERVICE) -----

HYDRAULIC PROFILE
 HORIZONTAL: NO SCALE
 VERTICAL: 1" = 5'-0"



REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

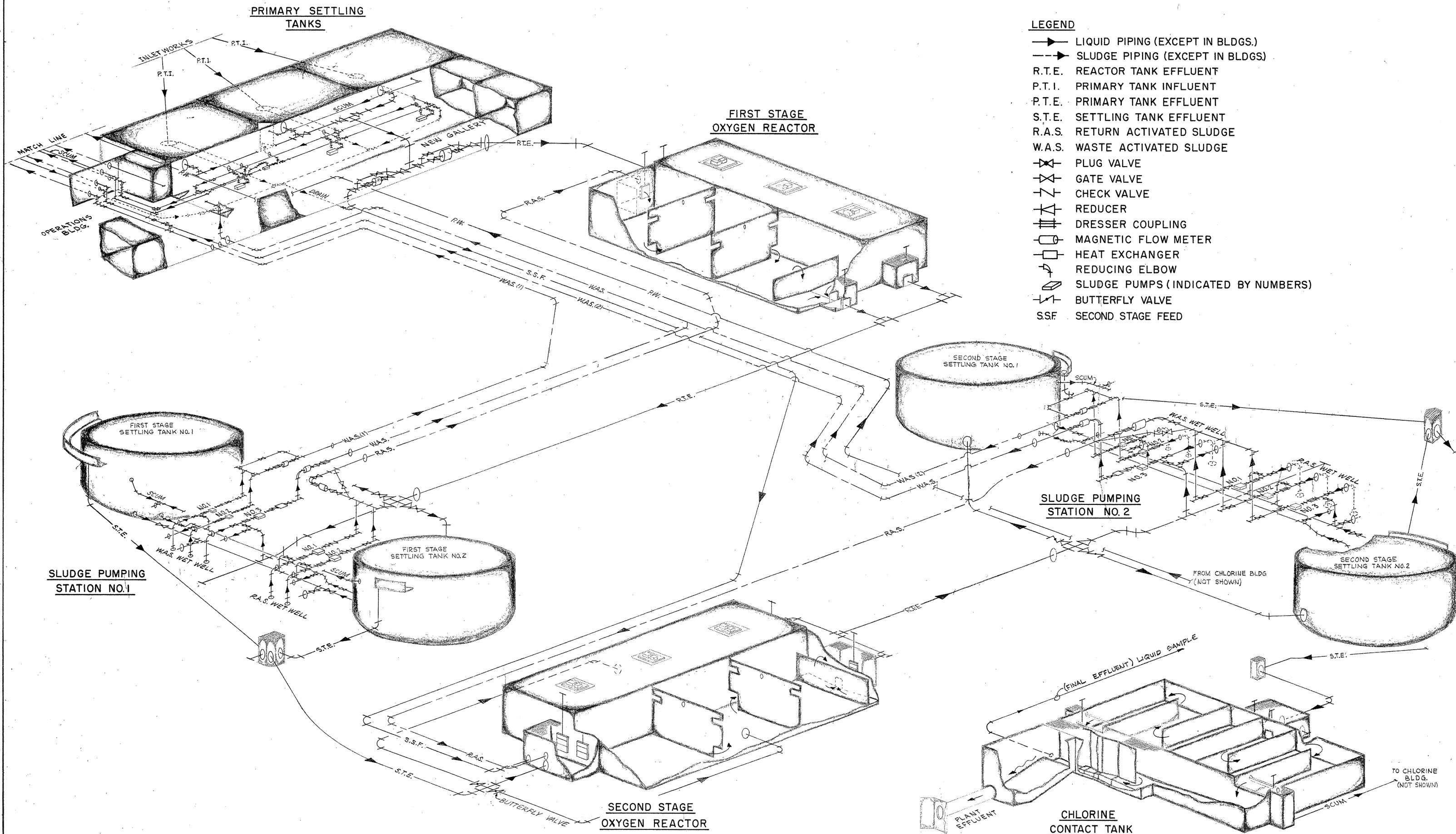


DRAWN: A. MCGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 GENERAL
 HYDRAULIC PROFILE & FLOW SCHEMATIC

SCALE - AS NOTED
 CEM NO. 1981
 DRAWING NO. **G-14**



REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: A. MCGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

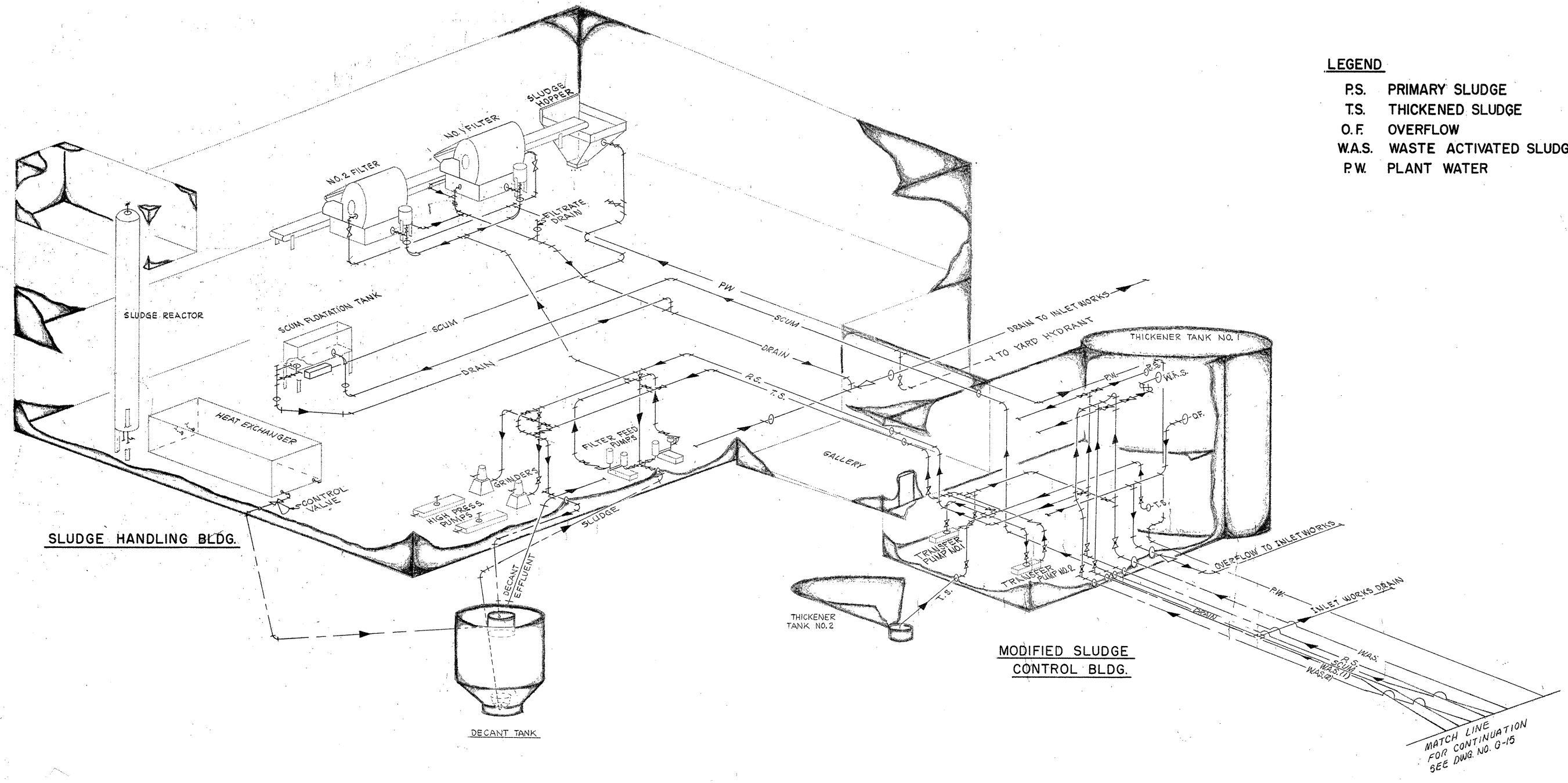
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED

Charles A. King
CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 GENERAL
PROCESS PIPING SCHEMATIC I

SCALE:
 NO SCALE
 CEM NO. 1981
 DRAWING NO.
G-15

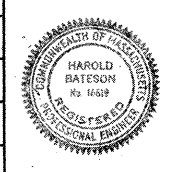


- LEGEND**
- P.S. PRIMARY SLUDGE
 - T.S. THICKENED SLUDGE
 - O.F. OVERFLOW
 - W.A.S. WASTE ACTIVATED SLUDGE
 - P.W. PLANT WATER

NOTE:
SEE MANUFACTURER'S DWG. FOR HEAT TREATMENT INTERCONNECTING PIPING

MATCH LINE FOR CONTINUATION SEE DWG. NO. G-15

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

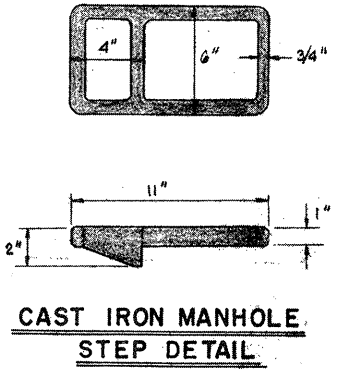
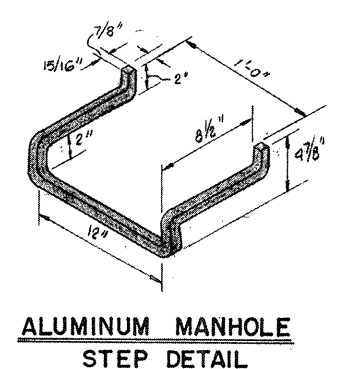
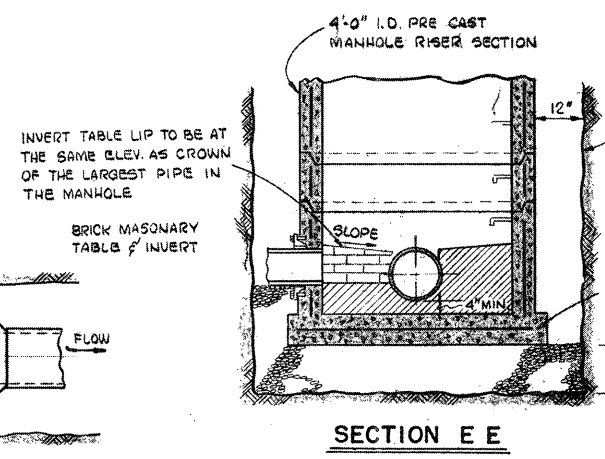
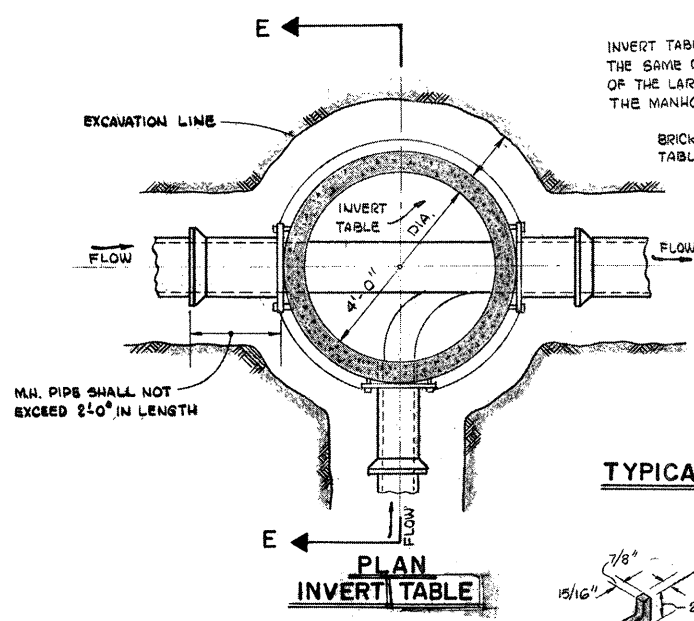
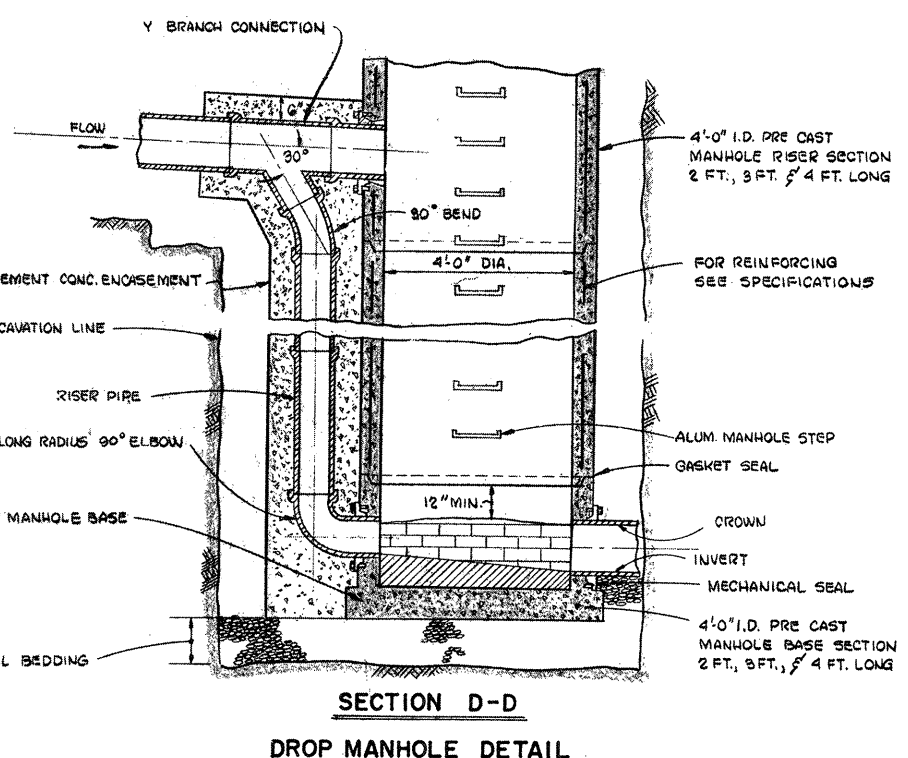
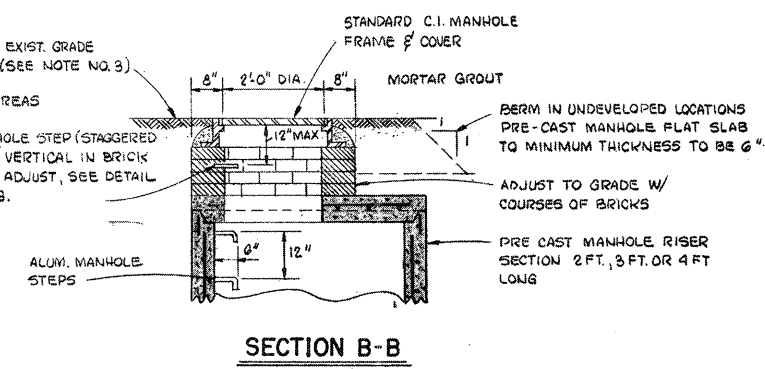
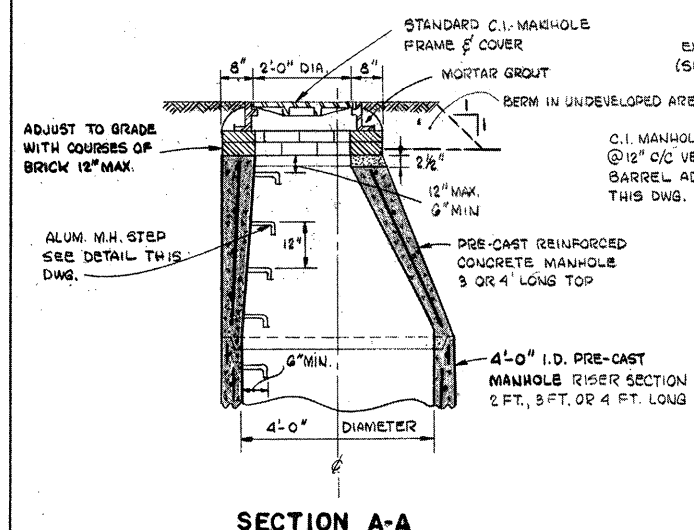
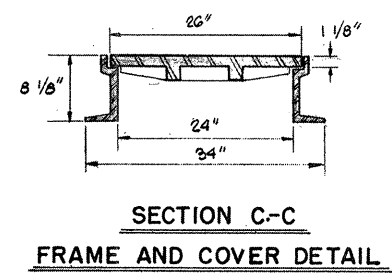
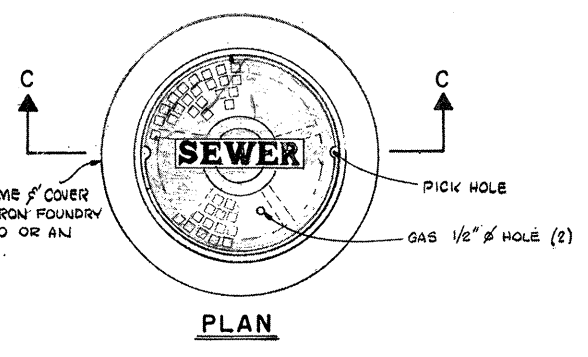
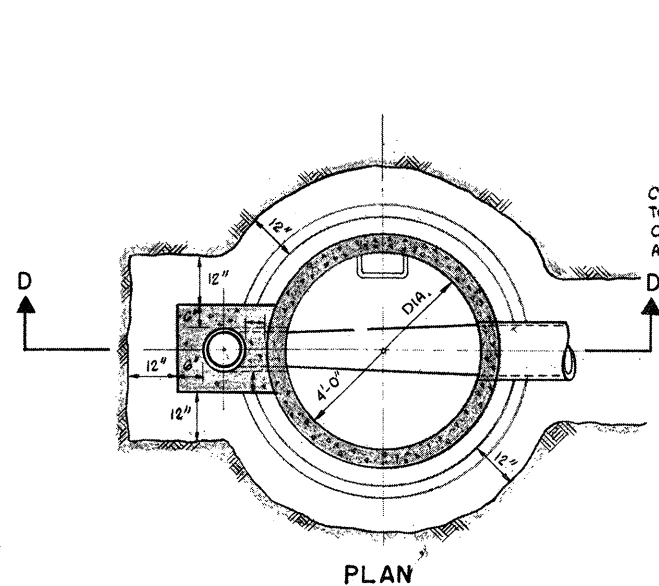
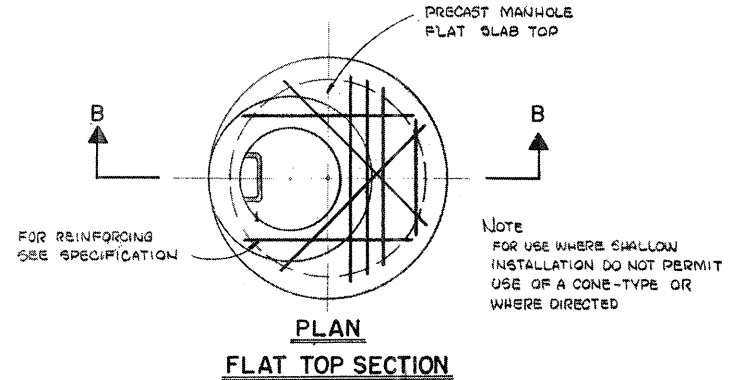
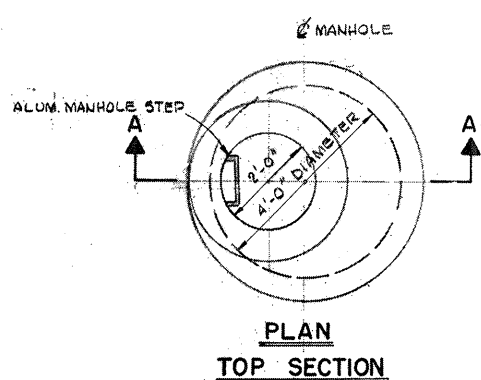


DRAWN: A. McGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 GENERAL
PROCESS PIPING SCHEMATIC II

SCALE: NO SCALE
 CEM NO. 1981
 DRAWING NO. **G-16**



- Notes
1. ALL MANHOLES SHALL HAVE C.I. MANHOLE FRAME & COVER AS INDICATED. COVER SHALL HAVE THE WORD SEWER CAST ON TOP.
 2. ALL PRE CAST MANHOLE RISERS AND CONES SHALL COME EQUIPPED WITH ALUMINUM MANHOLE STEPS AS SHOWN.
 3. IN UNDEVELOPED LOCATIONS, TOP OF MANHOLE COVER ELEVATION SHALL BE 1'-0" ABOVE EXISTING GROUND AND BERMED AS INDICATED OR AS OTHERWISE DIRECTED BY ENGINEER.
 4. PAYMENT FOR EXCAVATION SHALL BE MADE UNDER THE APPLICABLE BID UNIT PRICE OR FIXED UNIT PRICE.
 5. 8" RISER PIPE FOR DROP MANHOLE CONNECTION WHEN INCOMING SEWER IS 12" OR LESS; 10" RISER TO BE USED WHEN INCOMING SEWER IS GREATER THAN 12".

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: F. OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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Charles A. King
 CITY OF TAUNTON

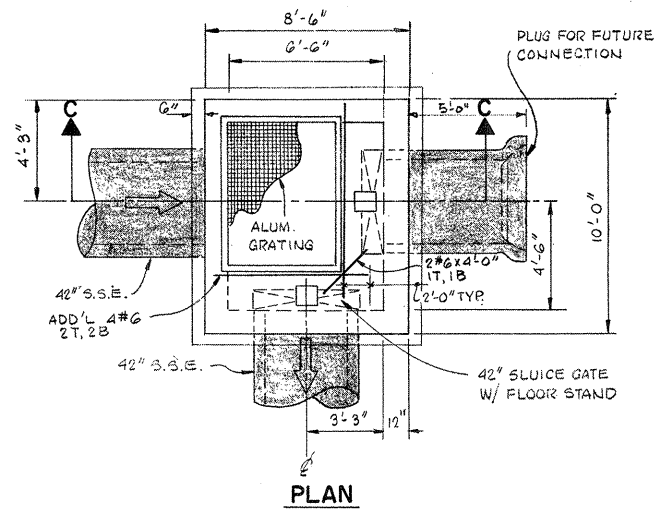
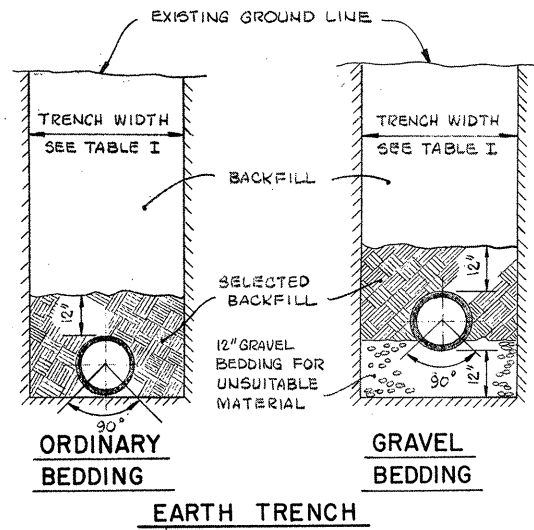
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 GENERAL
 MANHOLE DETAILS

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

CEM NO. 1981

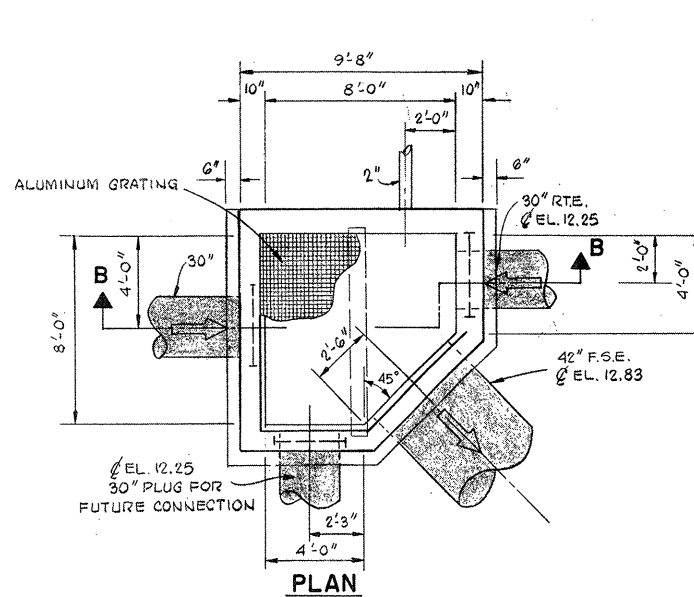
DRAWING NO.
G-17

ATTENTION
 THESE DRAWINGS HAVE
 BEEN REDUCED



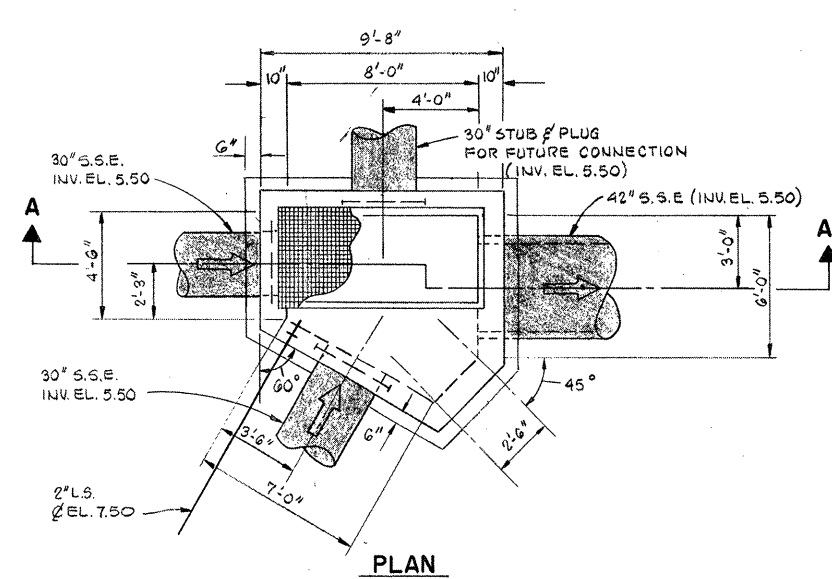
MANHOLE STRUCTURE NO. 3

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



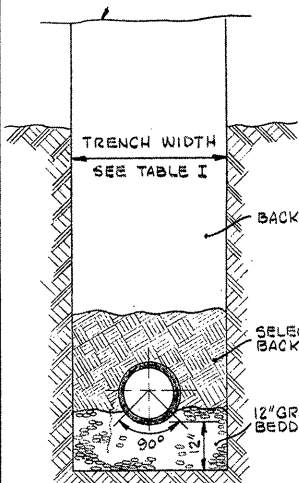
MANHOLE STRUCTURE NO. 1

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



MANHOLE STRUCTURE NO. 2

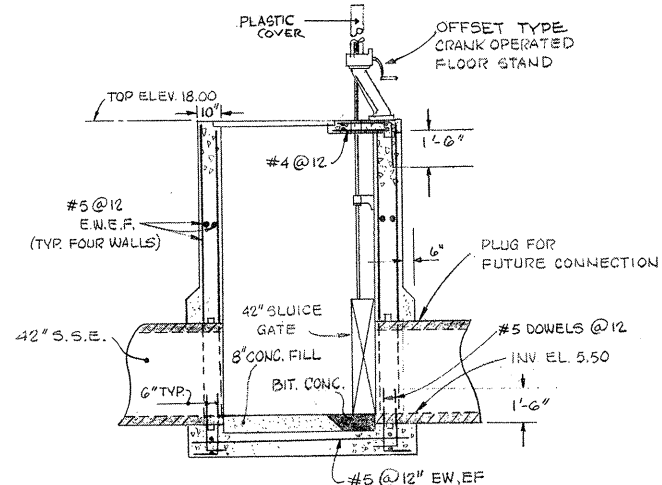
SCALE: 1/4" = 1'-0"



**GRAVEL BEDDING
ROCK TRENCH**

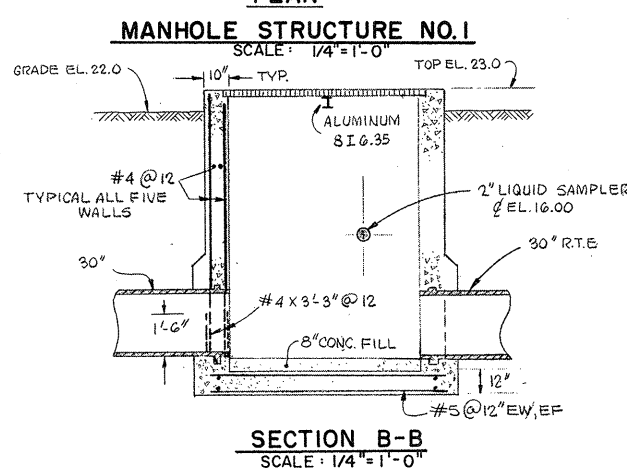
PIPE DIAMETER	TRENCH WIDTH
6"	2'-6"
8"-12"	3'-0"
15"-18"	3'-6"
24"	4'-6"
27"	5'-0"
30"	5'-6"
36"	6'-0"
42"	6'-6"
48"	7'-0"

TABLE I



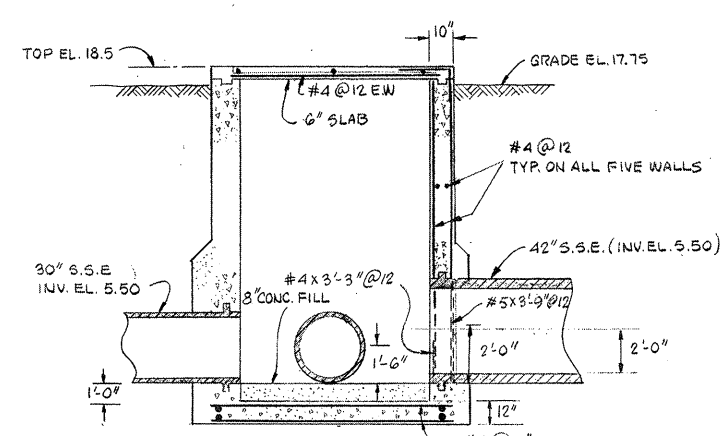
SECTION C-C

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



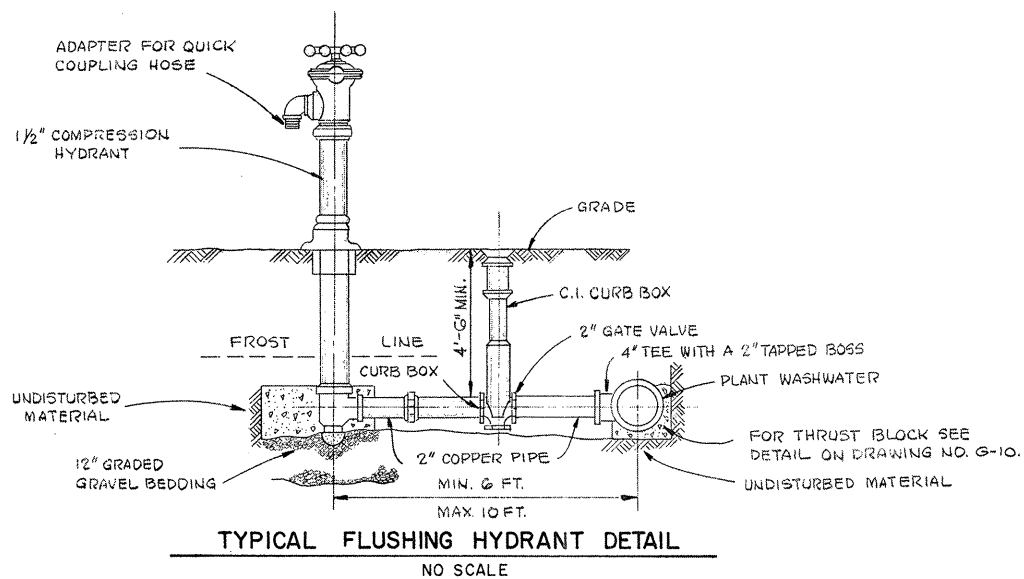
SECTION B-B

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



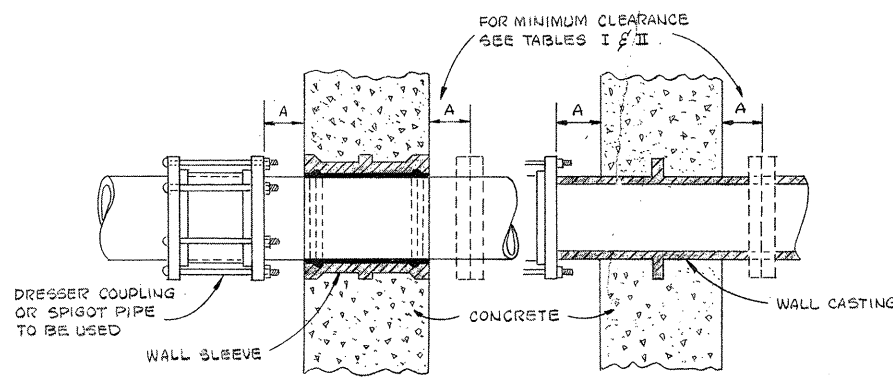
SECTION A-A

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



TYPICAL FLUSHING HYDRANT DETAIL

NO SCALE



TYPICAL WALL SLEEVE & CASTING DETAIL

NOT TO SCALE

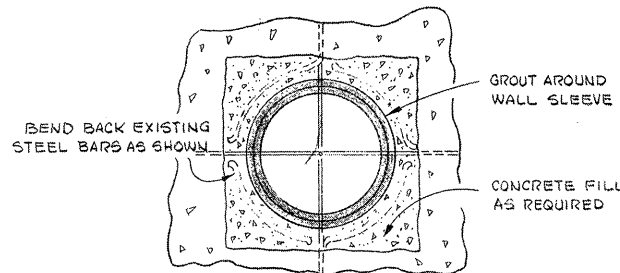
WALL CASTINGS
TABLE I

PIPE SIZE	3	4	6	8	10	12	OVER 14
DIMENSION "A"	5	6	6	6	6	6	7

WALL SLEEVES
TABLE II

FOR PIPE SIZE	3	4	6	8	10	12	14	16	18	20	OVER 20
DIMENSION "A"	8	10	12	12	12	12	14	14	15	16	18

(ALL DIMENSIONS ARE IN INCHES)



ATTENTION

THESE DRAWINGS HAVE BEEN REDUCED

NOTES

- GENERAL FOR ALL PIPING THROUGH EXISTING WALLS - SLEEVES SHOULD BE SLIPPED ON PIPING AND PUT INTO FINAL POSITION. MORTARED AND CAULKED AFTER PIPING HAS BEEN SECURED IN FINAL POSITION.
- THE ANNULAR SPACE BETWEEN OUTSIDE OF PIPE WALL AND THE PIPE SLEEVE SHALL BE FILLED AND CAULKED SOLID WITH BRAIDED ASBESTOS TO WITHIN 2" OF EACH FACE OF THE PIPE. SLEEVE SHALL BE FILLED WITH POURED AND CAULKED LEAD.
- WHERE STEEL PIPES ENTERS THRU THE CAST IRON WALL SLEEVE, THE STEEL PIPE SHALL BE WRAPPED WITH 1/4" MIN. TAR IMPREGNATED FELT.
- WHERE A MANHOLE STRUCTURE EXCAVATION IS IN SILT OR CLAY, THE THICKNESS OF GRAVEL BEDDING SHALL BE INCREASED TO 24"

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: F. OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

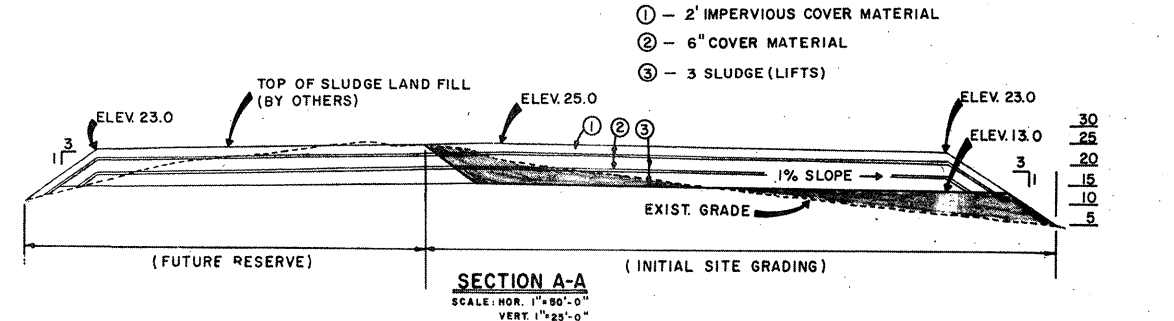
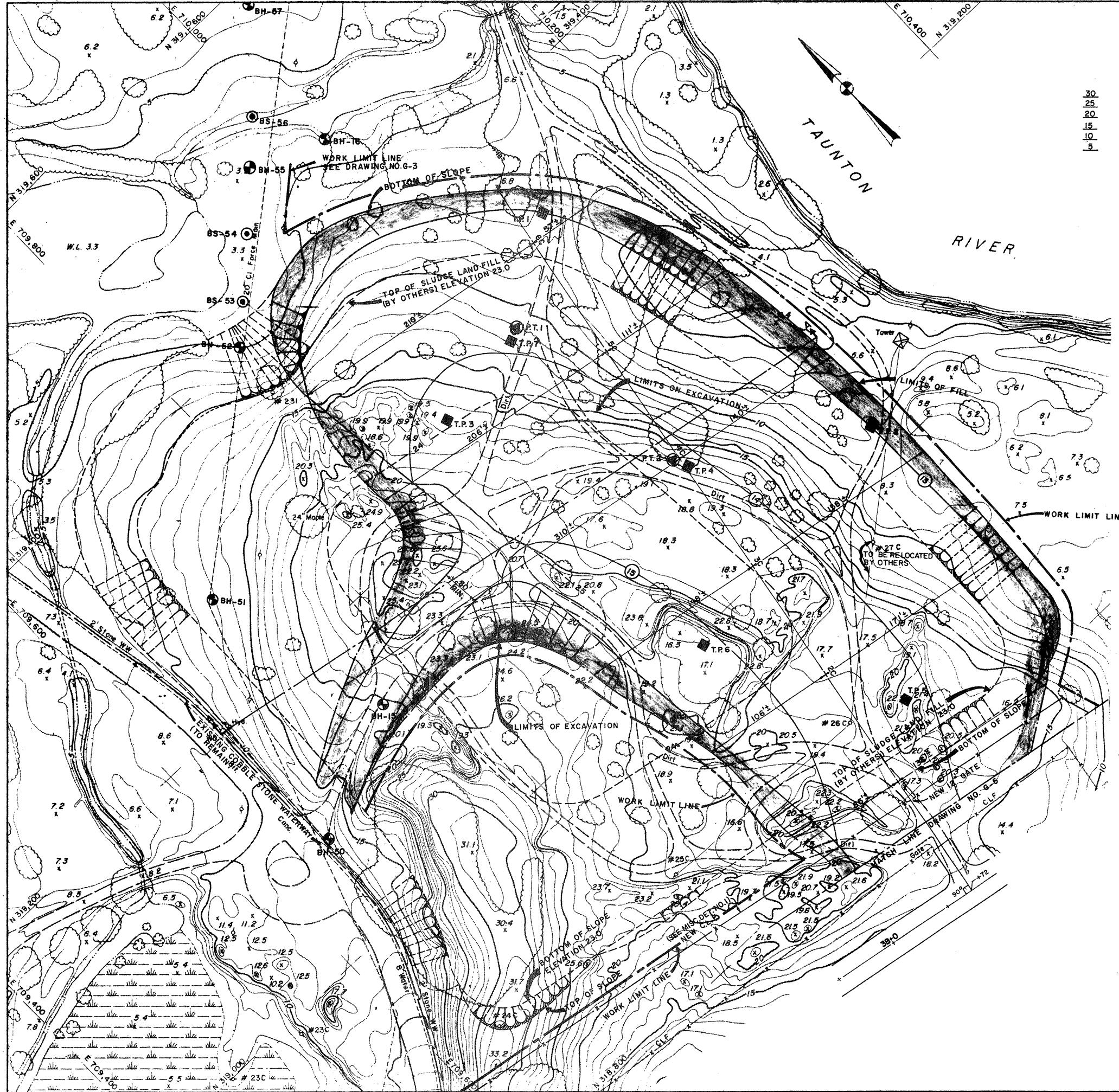
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

GENERAL
MISCELLANEOUS MANHOLE STRUCTURES & DETAILS

SCALE
 AS NOTED

CEM NO. 1981

DRAWING NO.
G-18



- NOTES**
- DATUM IS M.H.W. WITH FLOOD ELEVATION AT 10.0
 - NO DEPOSITS OF SLUDGE SHALL BE PLACED ON EXISTING GROUND PRIOR TO EXISTING GROUND BEING EXCAVATED OR FILLED TO ELEV. 14.0±
 - ALL IMPERVIOUS COVER MATERIAL SHALL BE FROM OUT-SIDE SOURCES.
 - ALL AREAS TO BE FILLED OR EXCAVATED SHALL BE STRIPPED OF ALL LOAM AND VEGETATION AND STORED ON SITE WHERE DESIGNATED BY OWNER.
 - MATERIALS ON SITE, TO BE EXCAVATED APPEAR TO BE SATISFACTORY FOR 6" COVER MATERIAL.

- LEGEND**
- TP [Symbol] TEST PIT LOCATION & NUMBER
 - BH [Symbol] BORINGS PREVIOUSLY COMPLETED.
 - BS [Symbol] BAR SOUNDINGS PREVIOUSLY COMPLETED.
 - PT [Symbol] PERCOLATION TEST LOCATION & NUMBER.
 - [Symbol] TOP OF SLOPE
 - [Symbol] BOTTOM OF SLOPE

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: F. OAKES DESIGNED: _____
 CHECKED: T. MELLO APPROVED: W. HUNDLEY
 DATE: JULY 1974

CE MAGUIRE, INC.
 ARCHITECTS · ENGINEERS · PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED

Charles A. P...

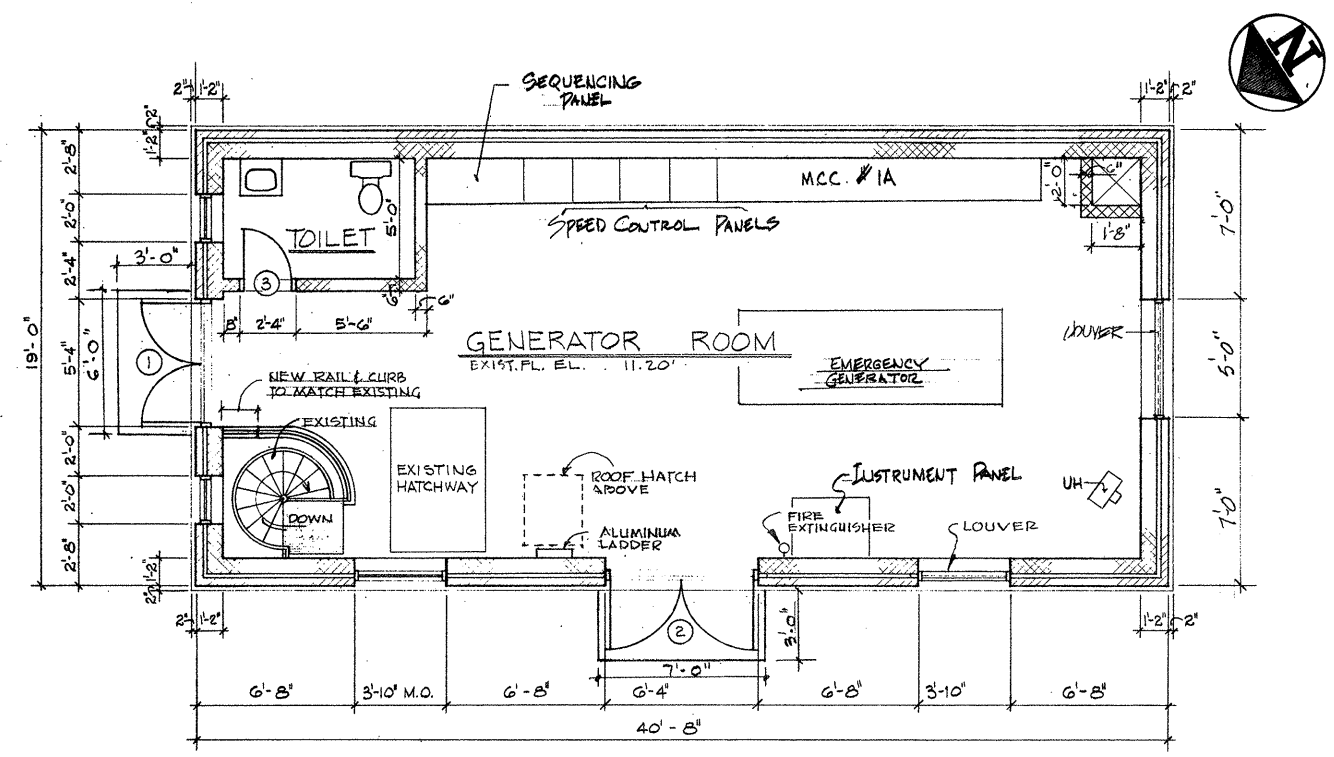
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

GENERAL GRADING PLAN
SLUDGE STORAGE AREA

SCALE
 1" = 40'-0"
 CEM NO. 1981
 DRAWING NO.
G-19

MATCH TO INSERT A

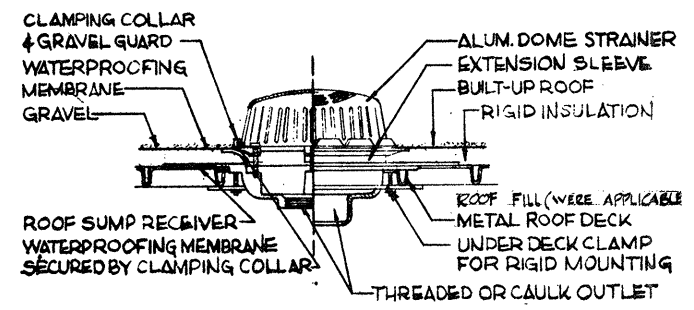
- FINISH SCHEDULE**
1. ALL CML. WALLS TO HAVE GLAZED PAINT
 2. GENERATOR ROOM FLOOR TO HAVE GLAZED PAINT
 3. TOILET ROOM FLOOR TO BE THIN SET CERAMIC TILE & MARBLE THRESHOLD
 4. TOILET ROOM CEILING TO BE G.A.T. TYPE II 8'-0" CEILING HEIGHT
 5. PAINT ALL EXPOSED STEEL.



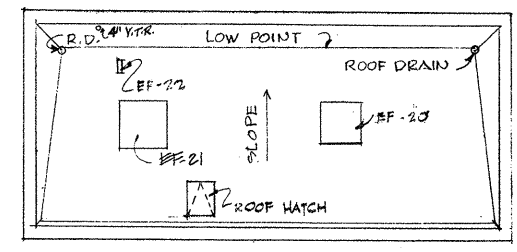
FLOOR PLAN - EL. 11.20
1/4" = 1'-0"

ABBREVIATIONS

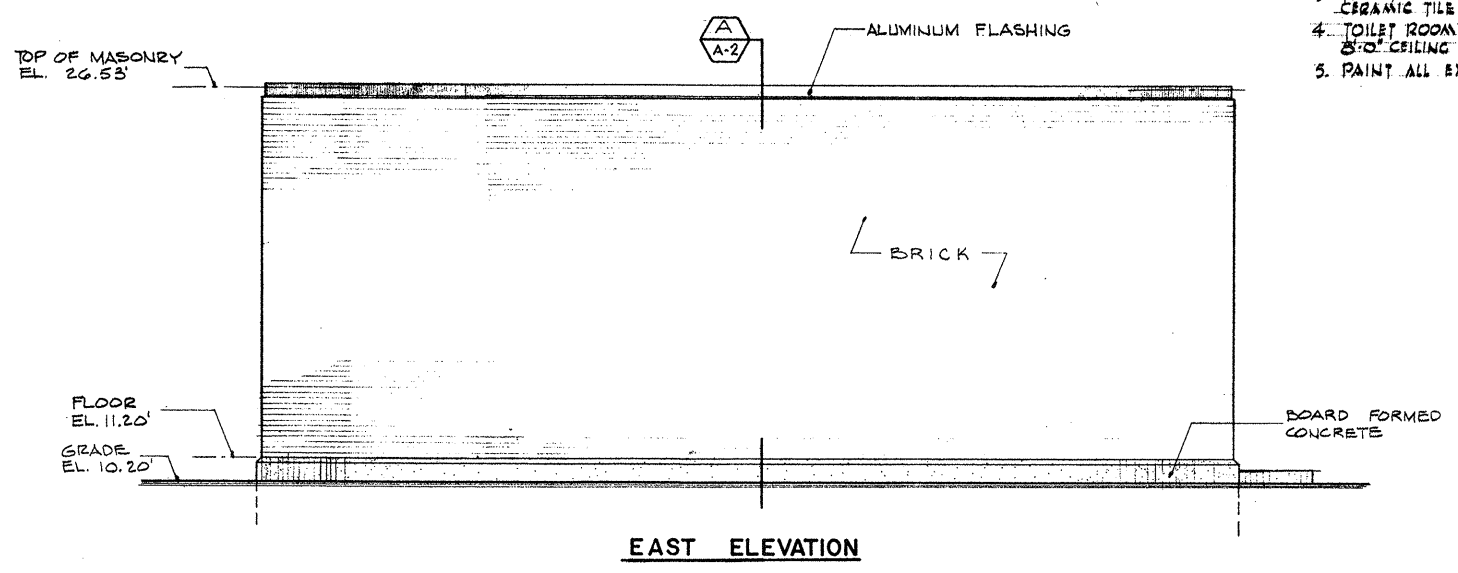
AL.	ALUMINUM	FAC. FIN.	FACTORY FINISH	O.D.	OUTSIDE DIAMETER
BOT. BLDG.	BOTTOM BUILDING	F.E.	FIRE EXTINGUISHER	PR.	PAIR
CLG. CT.	CEILING CERAMIC TILE	FL.	FLOOR	PLAS.	PLASTER
CLG. COL.	CLOSET COLUMN	F.D.	FLOOR DRAIN	PL.	PLATE
CONC. CMU	CONCRETE MASONRY UNIT	GL.	GALVANIZED GLASS	P.M.	PRESSED METAL
C.J.	CONTROL JOINT	HTG.	HEATING	PVC	POLY VINYL CHLORIDE
DN.	DOWN	H.M.	HOLLOW METAL	REFR.	REFRIGERATOR
DWG.	DRAWING	R.	RISER	R.D.	ROOF DRAIN ROOM
DF.	DRINKING FOUNTAIN	R.M.	ROOM	SQ.	SQUARE
ELEC. EL.	ELECTRICAL ELEVATION	SAT.	SUSPENDED ACOUSTICAL TILE SEALER & HARDNER	STR.	STRUCTURAL
EXIST.	EXISTING	S.H.	SEALER & HARDNER	T.O.	TOP OF
EX-J.	EXPANSION JOINT	SQ.	SQUARE	VAT.	VINYL ASBESTOS TILE
		STR.	STRUCTURAL	W.W.	WASH & WAX
		M.O.	MASONRY OPENING		
		MECH. MIN.	MECHANICAL MINIMUM		
		M.S.B.	MOP SERVICE BASIN		
		N.I.C.	NOT IN CONTRACT		
		JAN.	JANITOR		
		LAB. L.P.	LABORATORY LOW POINT		



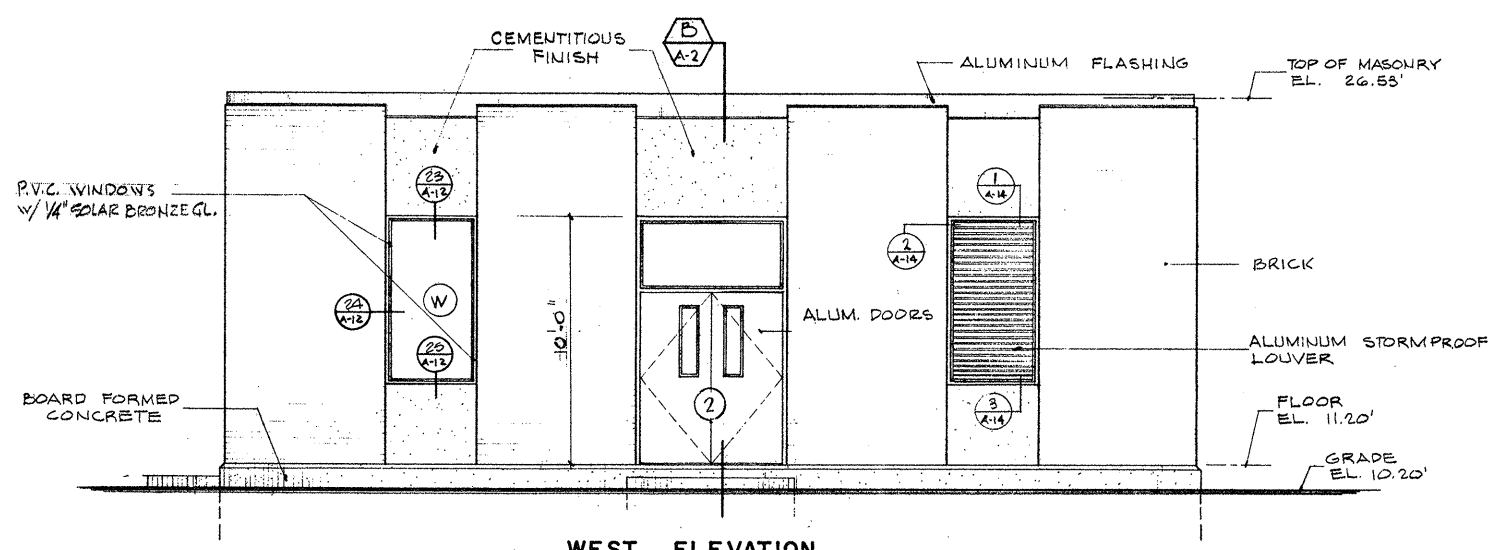
TYPICAL ROOF DRAIN (ALL BUILDINGS)
NO SCALE



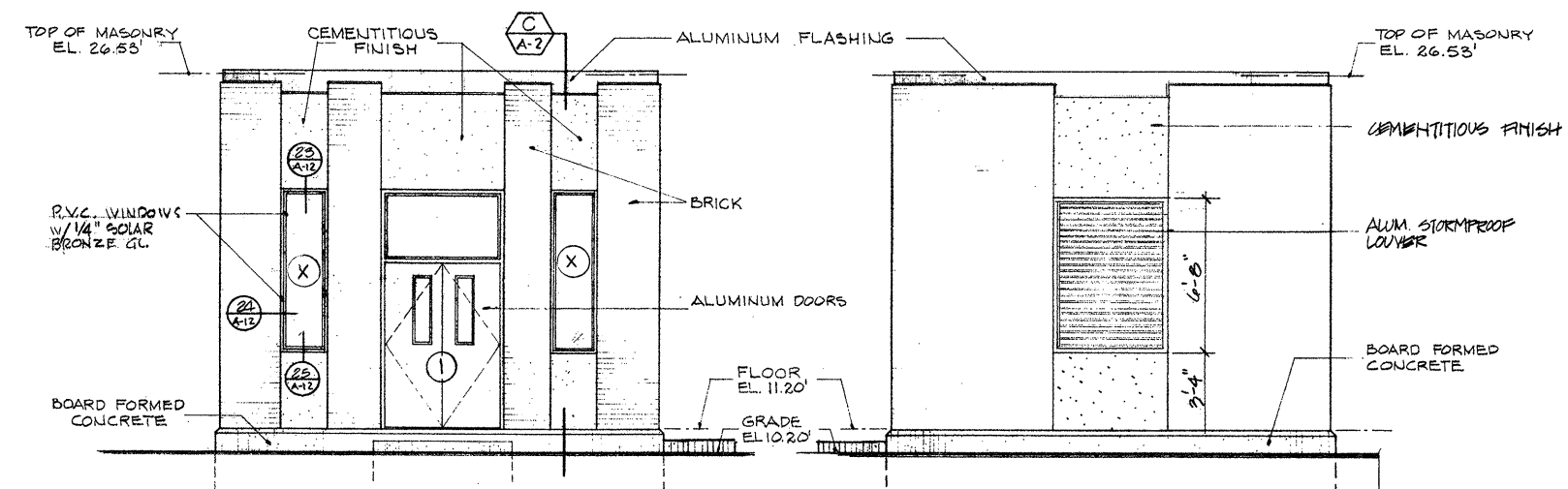
ROOF PLAN



EAST ELEVATION



WEST ELEVATION



NORTH ELEVATION

SOUTH ELEVATION

ATTENTION
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1/4" = 1'-0"

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. BRAUNROTH DESIGNED: F. CATALANO
 CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

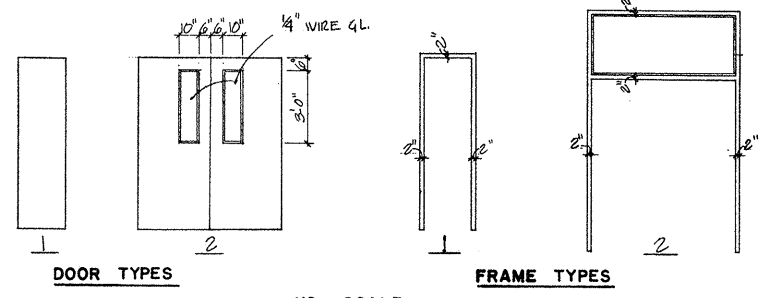
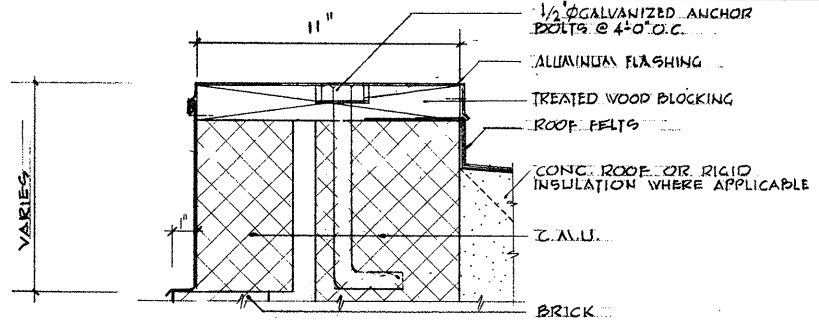
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

MODIFIED RAW SEWAGE PUMPING STATION
PLAN & ELEVATIONS

SCALE
AS NOTED

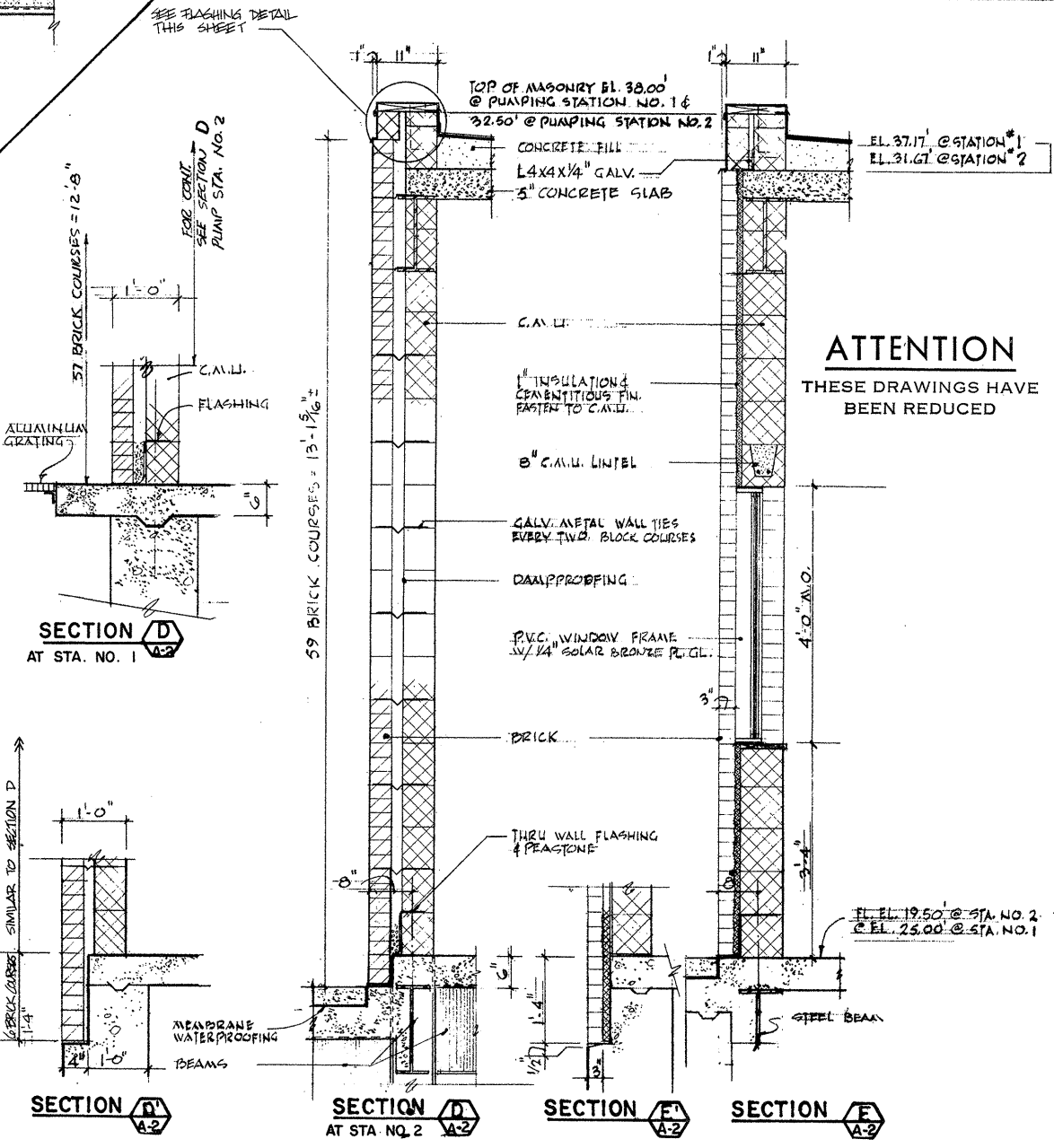
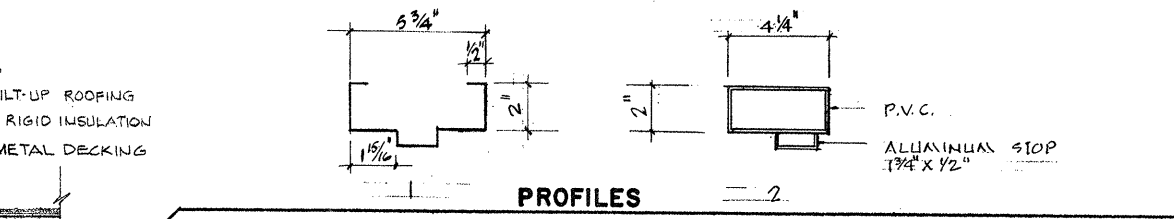
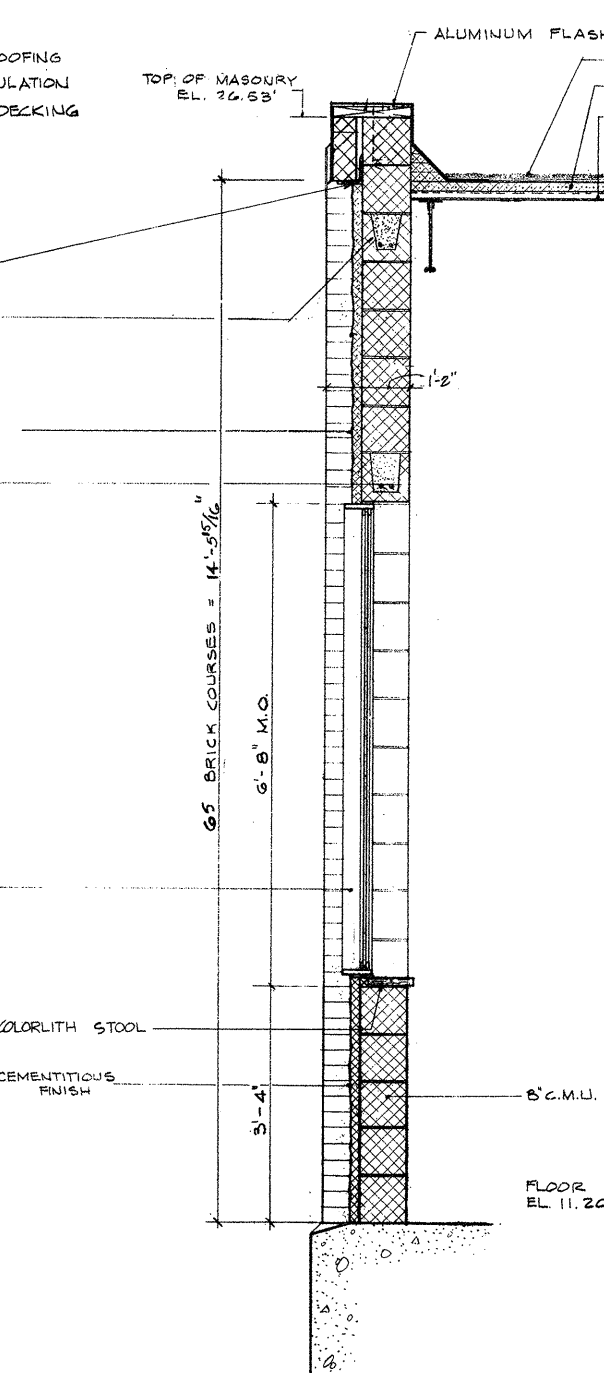
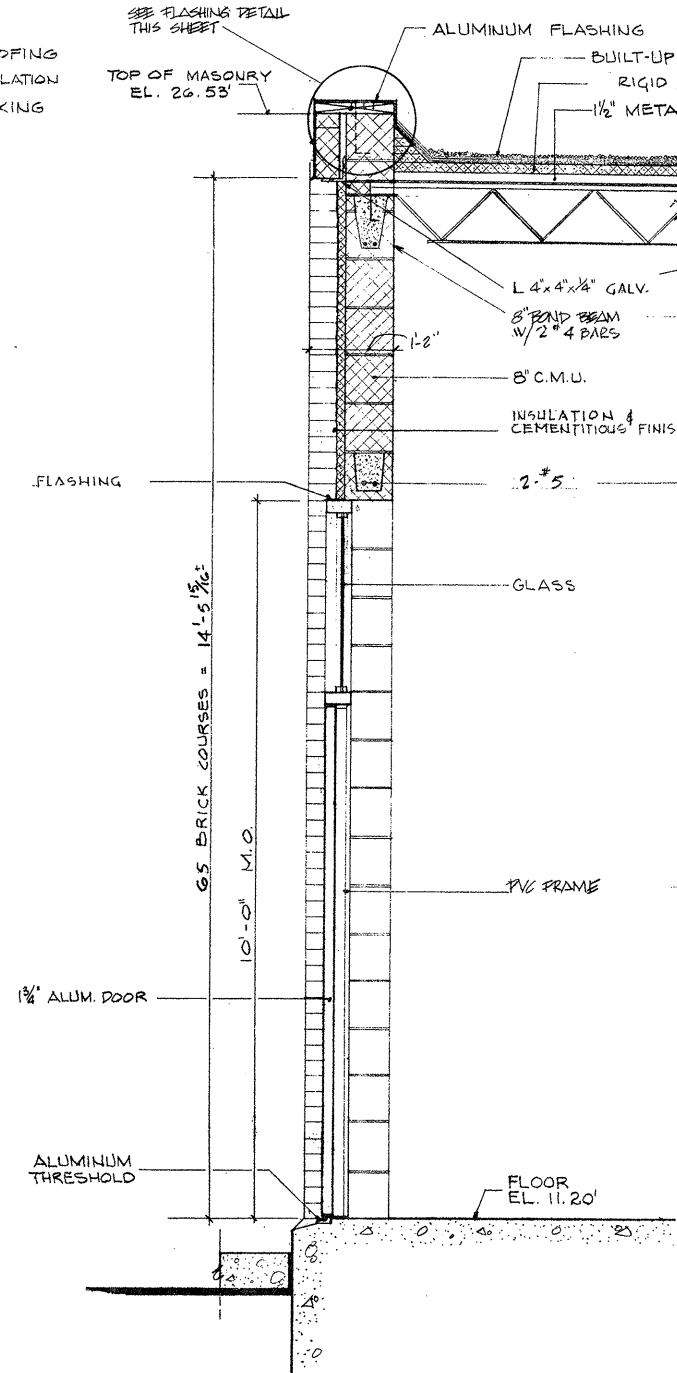
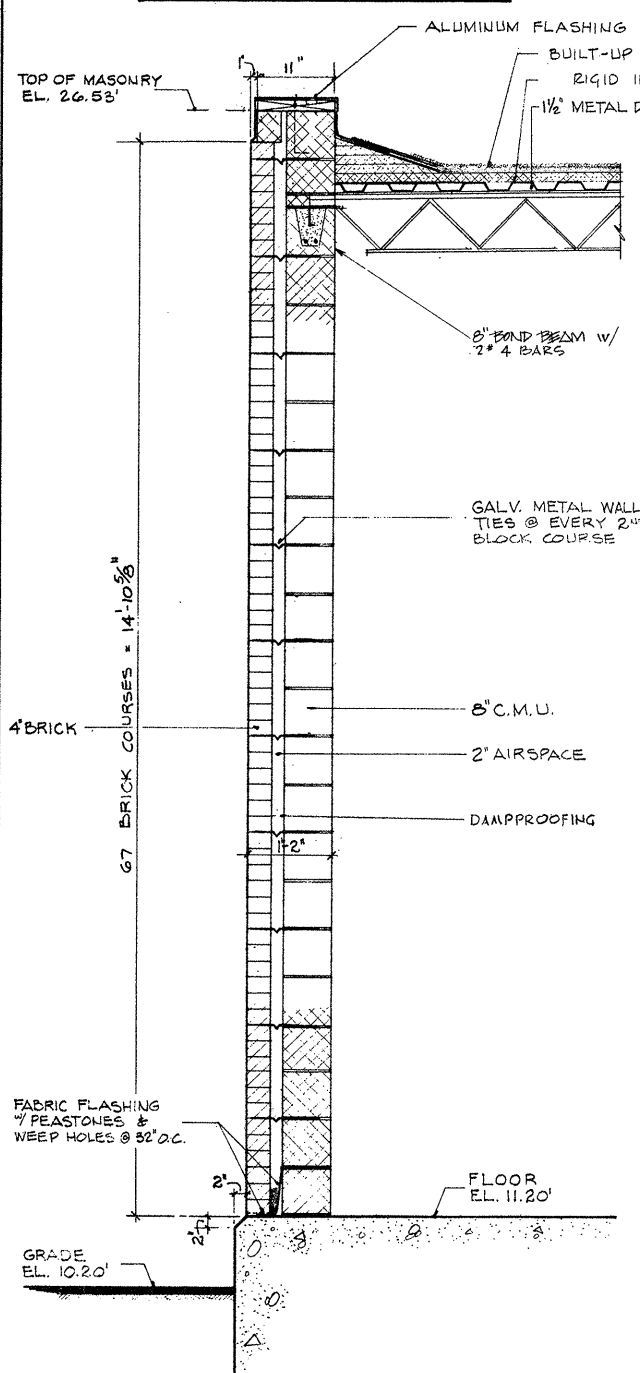
CEM NO. 1981

DRAWING NO.
A-1



DOOR AND FRAME SCHEDULE										
DOORS			FRAMES			DETAILS			REMARKS	
MARK	SIZE	TYPE	MAT.	PROFILE	TYPE	MAT.	HEAD	JAMB		SILL
1	PR. 2'-0" x 7'-2" x 1 1/4"	2	ALUM.	2	2	P.V.C.	H-11	J-2	S-1	TOTAL WEATHERSTRIP
2	PR. 5'-0" x 7'-2" x 1 1/4"	2	ALUM.	2	2	P.V.C.	H-11	J-2	S-1	"
3	2'-0" x 7'-2" x 1 1/4"	1	H.M.	1	1	P.A.	H-7	J-6	S-3	"

NOTE: FOR DOOR DETAILS SEE DRAWING A-10.



ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

NOTE
WALL SECTIONS D, D', E & E' ARE APPLICABLE ONLY TO SLUDGE PUMPING STATIONS 1 & 2

3/4" = 1'-0"

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 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

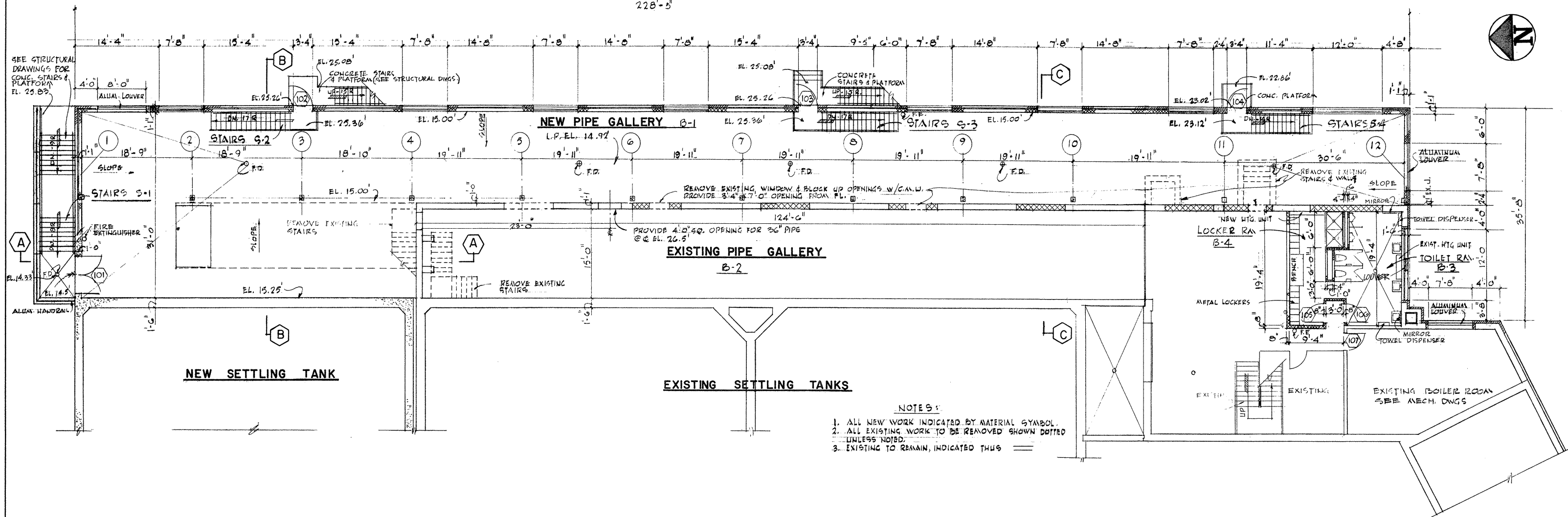
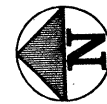
MODIFIED RAW SEWAGE PUMPING STATION
WALL SECTIONS & DOOR SCHED.

SCALE
 AS NOTED

CEM NO. 1981

DRAWING NO.
A-2

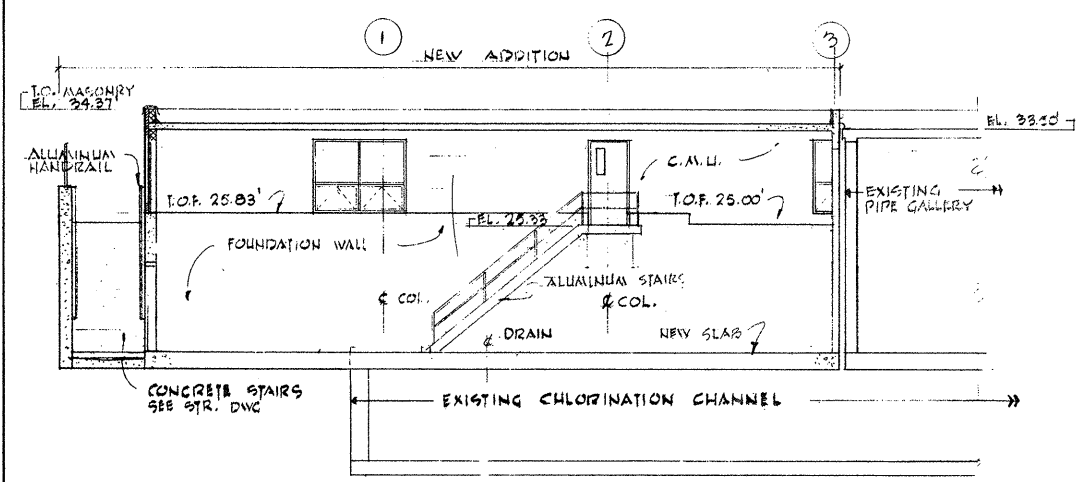
228'-5"



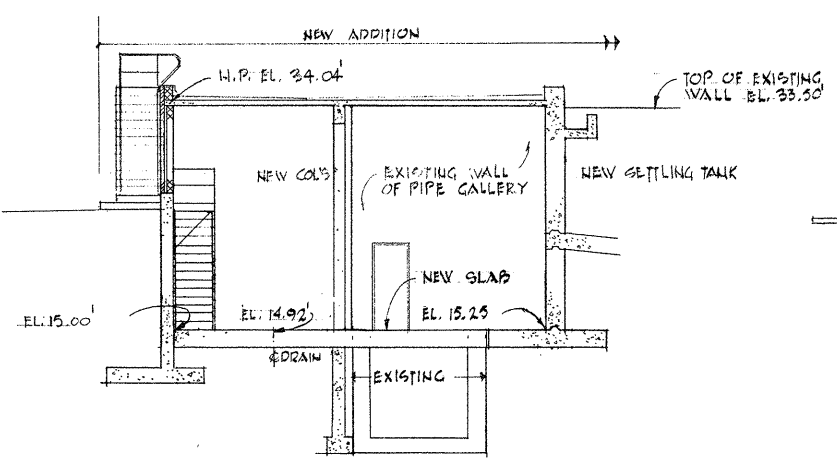
- NOTES:**
1. ALL NEW WORK INDICATED BY MATERIAL SYMBOL.
 2. ALL EXISTING WORK TO BE REMOVED SHOWN DOTTED UNLESS NOTED.
 3. EXISTING TO REMAIN, INDICATED THUS

PIPE GALLERY FLOOR PLAN & OPERATIONS BUILDING BASEMENT PLAN

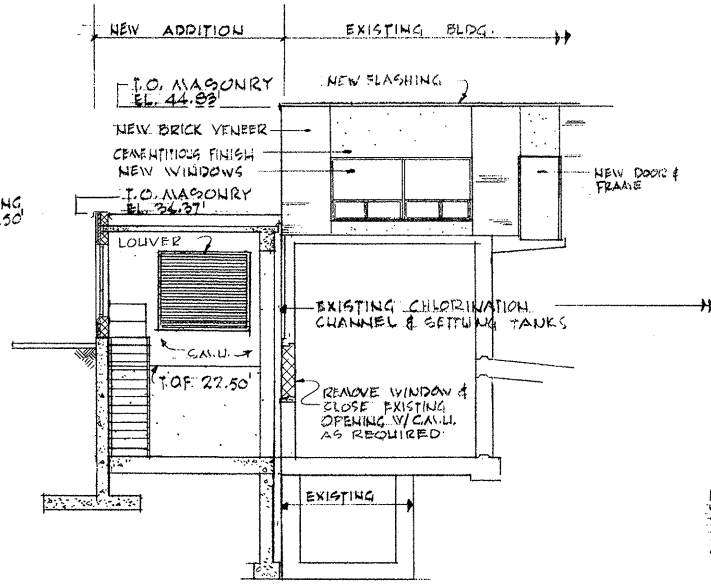
1/8"=1'-0"



SECTION A



SECTION B



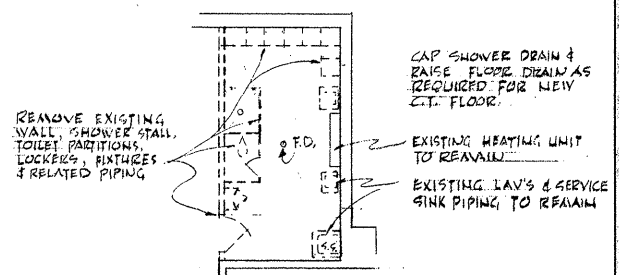
SECTION C

TOILET RM. B-3 FIXTURE SCHEDULE

- TOWEL DISPENSER - 3'-4" ABOVE FLOOR
 - TOILET DISPENSER - 3'-4" ABOVE FLOOR
 - SOAP DISPENSER - 3'-6" ABOVE FLOOR
 - 30" X 20" MIRROR - 3'-4" ABOVE FLOOR
 - COAT HOOK - 5'-0" ABOVE FLOOR
- DIMENSIONS ARE TO BOT. OF ACCESSORIES

ATTENTION

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PLAN OF EXIST. TOILET ROOM
1/8"=1'-0"

BUILDING SECTIONS
1/8"=1'-0"

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



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APPROVED
Charles A. ...
 CITY OF TAUNTON

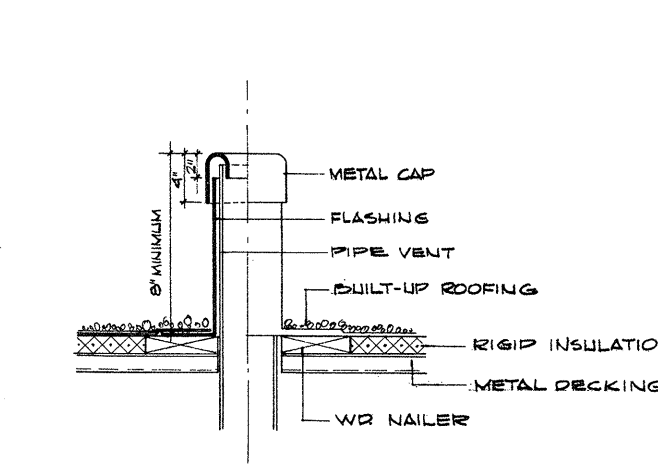
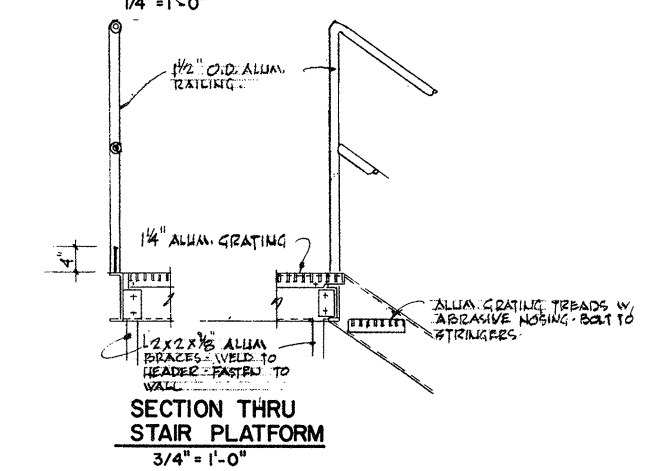
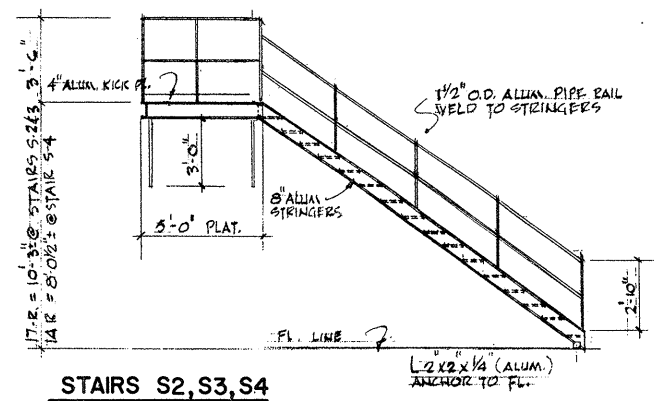
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OPERATIONS BUILDING WITH PIPE GALLERY
FLOOR PLAN & BUILDING SECTIONS
 PLAN AT ELEVATION 15.0'

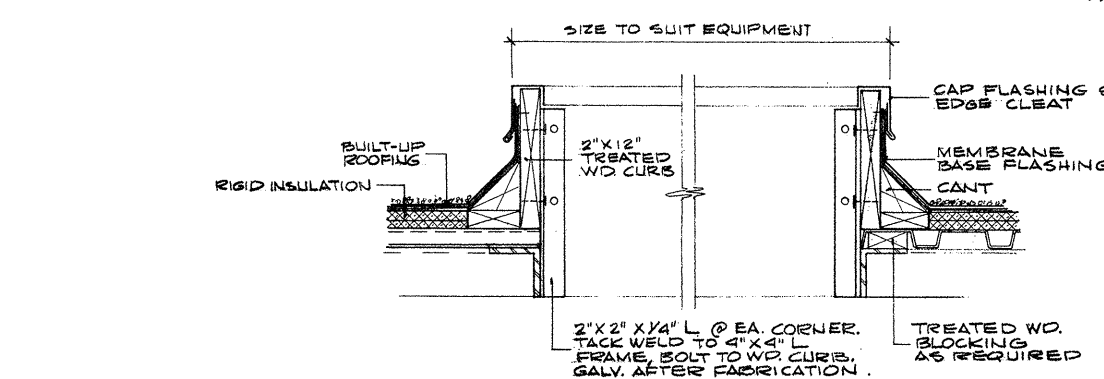
SCALE
 AS NOTED

CEM NO. 1081

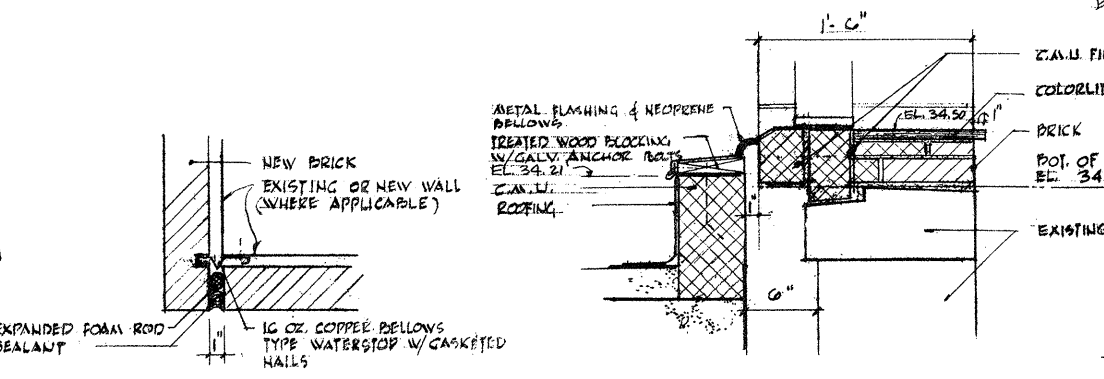
DRAWING NO.
A-3



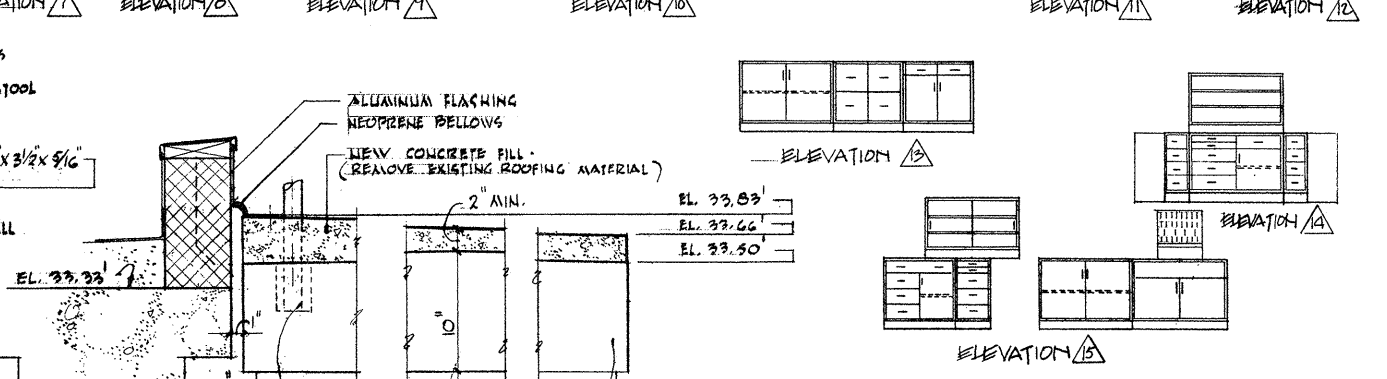
ROOF VENT DETAIL



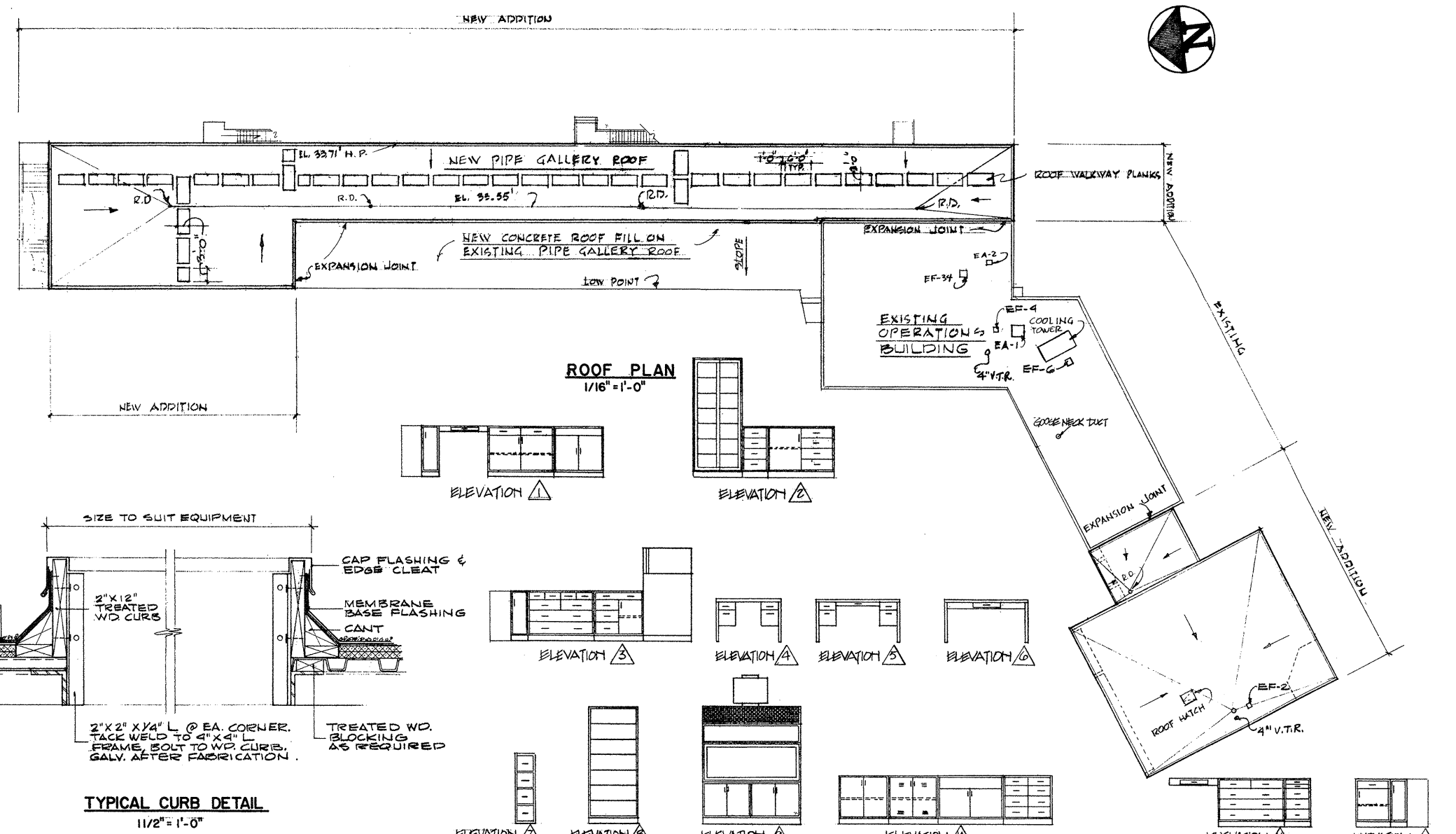
TYPICAL CURB DETAIL
1 1/2" = 1'-0"



EXPANSION JOINT DETAIL BETWEEN
NEW PIPE GALLERY & OPERATIONS
BUILDING
1 1/2" = 1'-0"



EXPANSION JOINT DETAIL BETWEEN NEW PIPE
GALLERY & EXISTING PIPE GALLERY
1 1/2" = 1'-0"



ROOF PLAN
1/16" = 1'-0"



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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



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 CHECKED: F. CATALANO APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
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APPROVED
Charles G. Long
 CITY OF TAUNTON

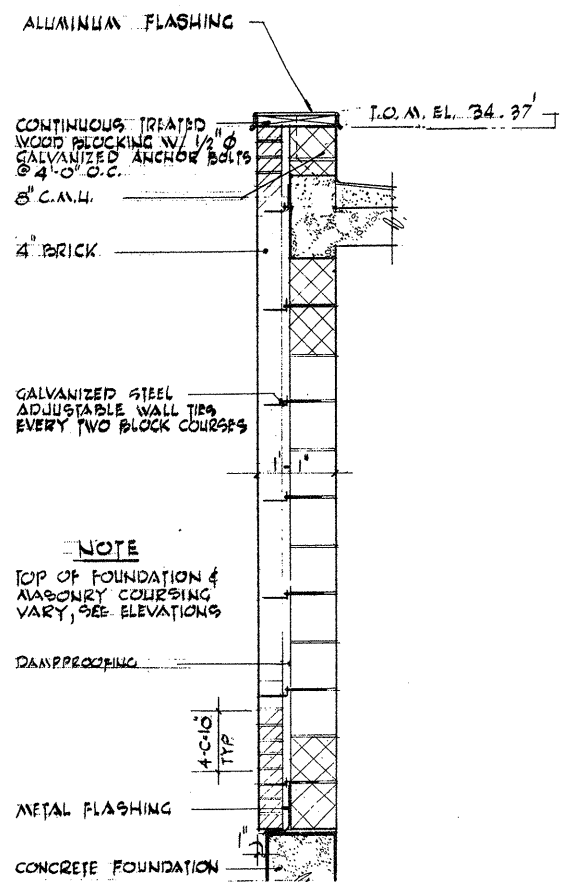
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OPERATIONS BUILDING WITH PIPE GALLERY
ROOF PLAN & DETAILS

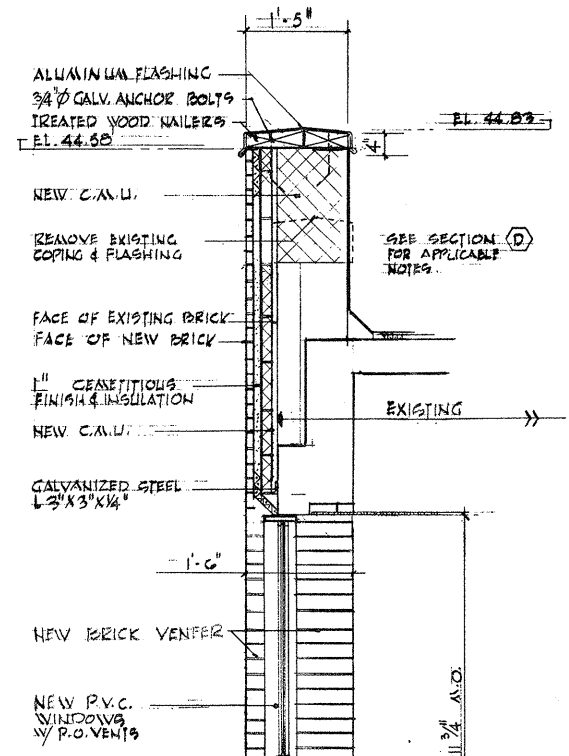
SCALE
 AS NOTED

CEM NO. 1981

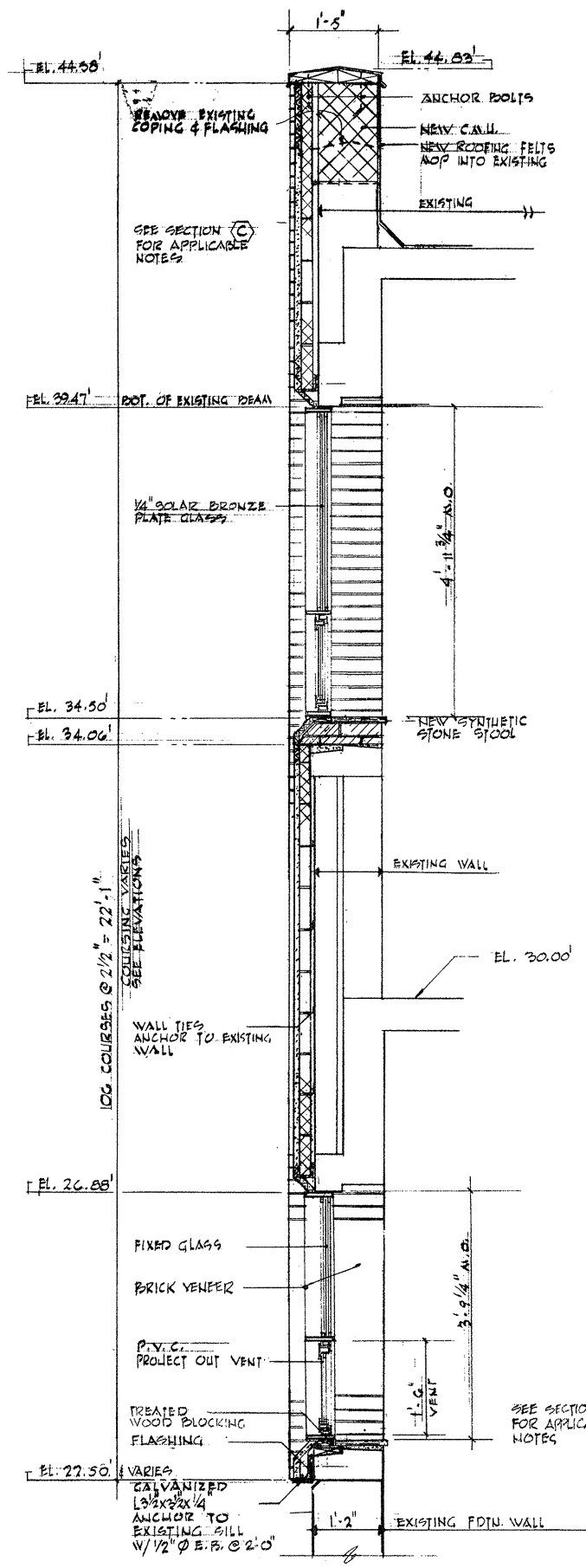
DRAWING NO.
A-5



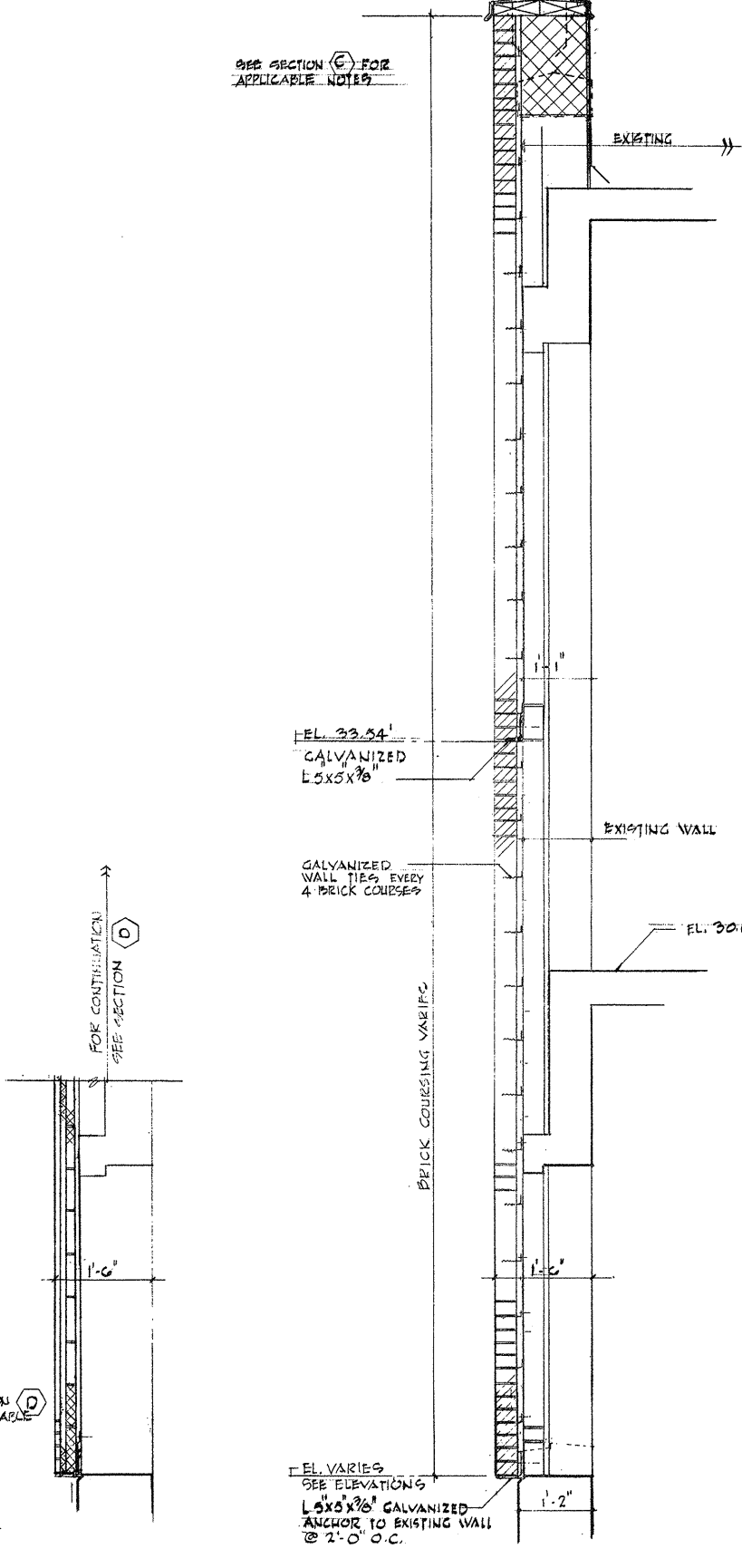
SECTION A
A-7



SECTION B
A-7

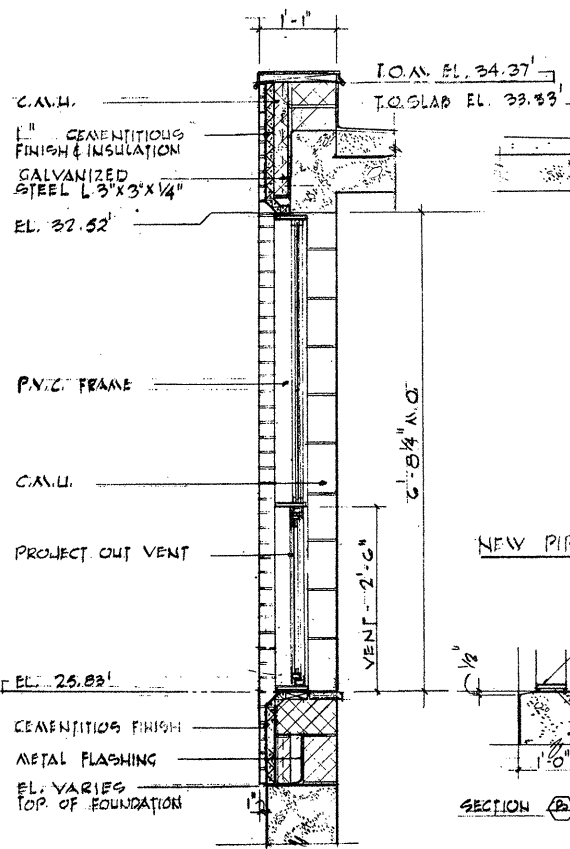


SECTION C
A-7

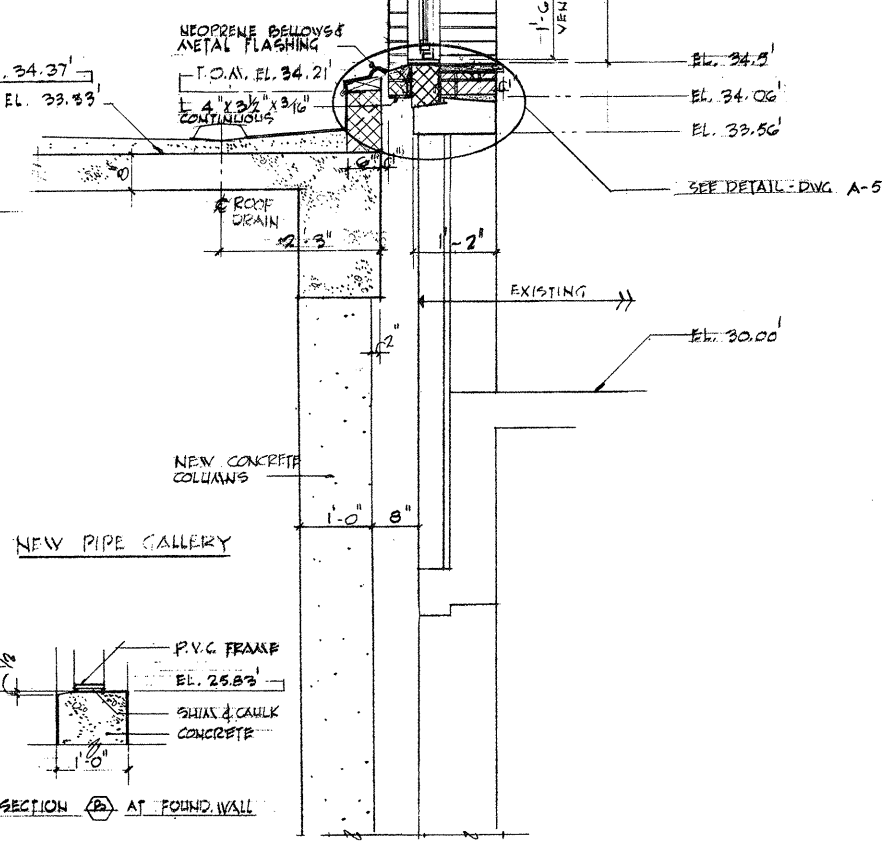


SECTION D
A-7

SECTION E
A-7



SECTION A-7
A-7



SECTION B-7
A-7

3/4" = 1'-0"

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

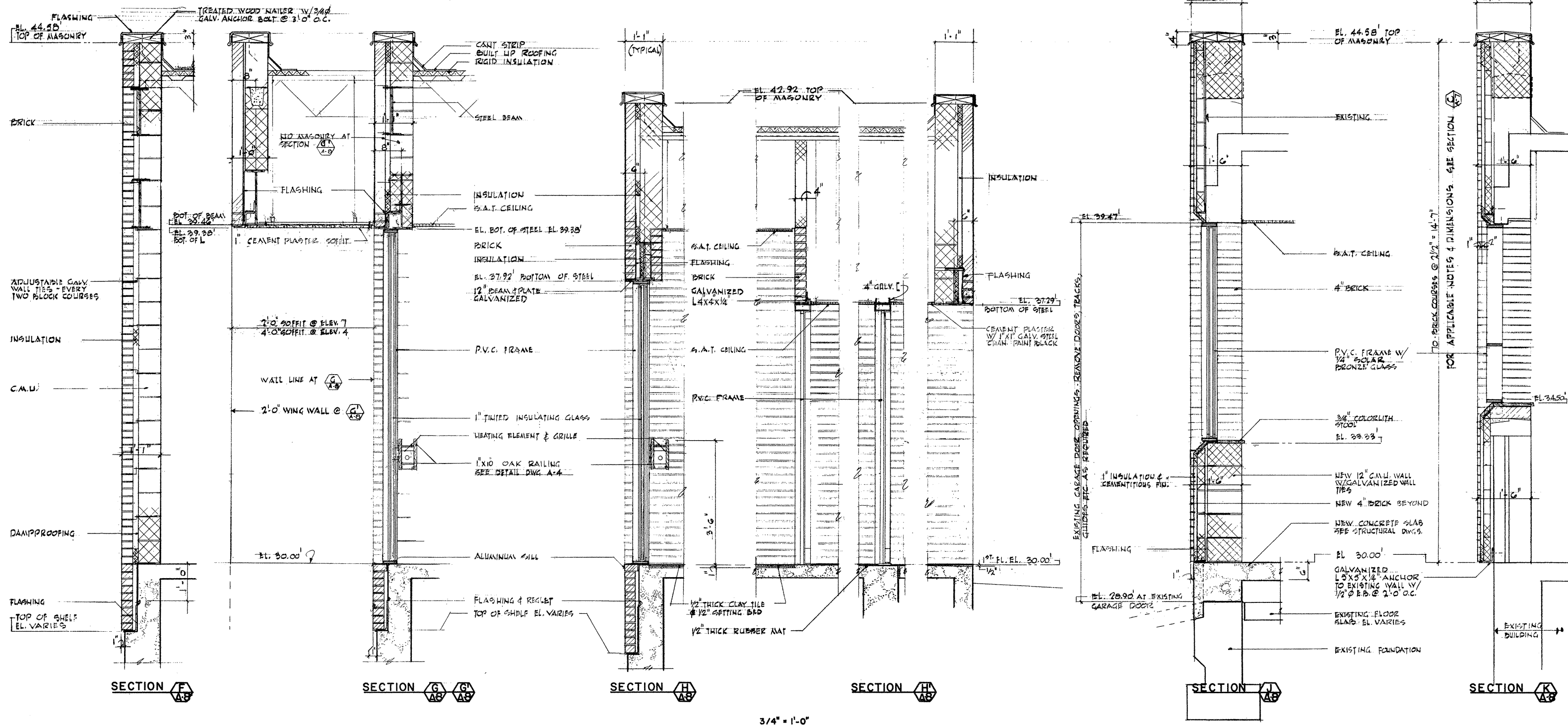


DRAWN: J. MERCURIO DESIGNED: F. CATALANO
 CHECKED: E. CATALANO APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Maguire
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING WITH PIPE GALLERY
WALL SECTIONS

SCALE
 3/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
A-7



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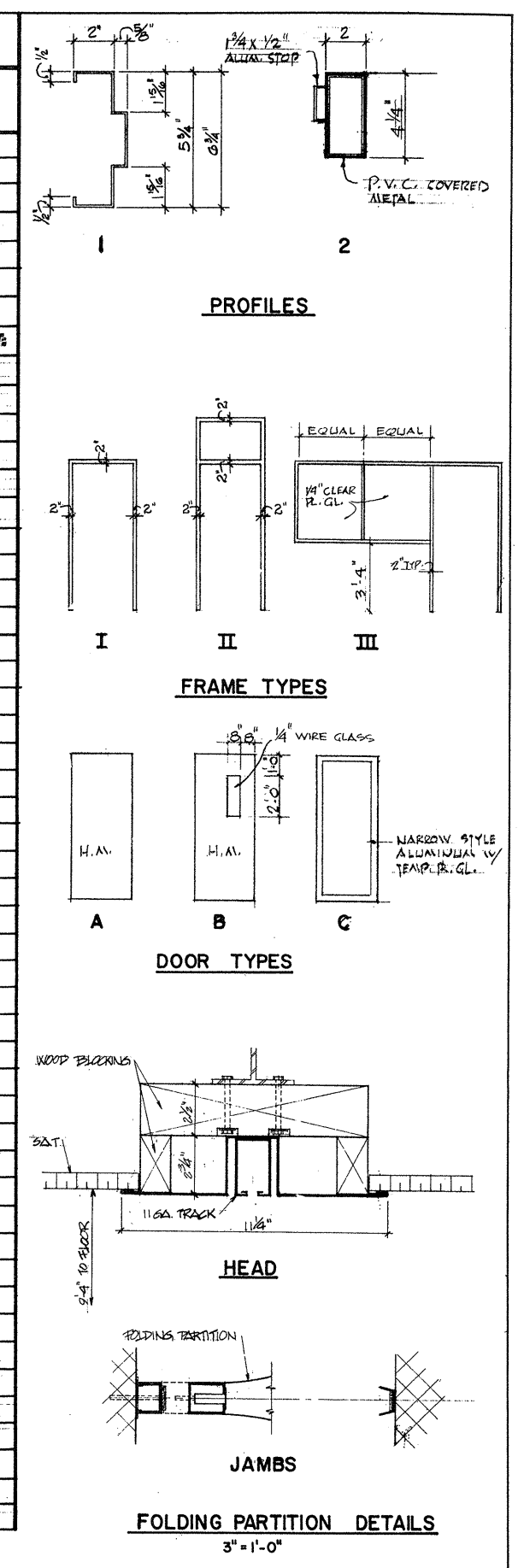
APPROVED
Charles A. [Signature]
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING WITH PIPE GALLERY
WALL SECTIONS

SCALE
 3/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
A-8

ROOM FINISH SCHEDULE											
NO.	ROOM NAME	FLOOR		BASE		WALLS		CEILING		REMARKS	
		MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.		HEIGHT
BASEMENT LEVEL											
B-1	NEW PIPE GALLERY	CONC.	S&H	C.M.U.	PAINT	C.M.U.	PAINT	ROOFED STRUCTURE	PAINT	VARIABLE	PAINT ALL EXPOSED PIPING
B-2	EXIST. PIPE GALLERY	CONC.	S&H	C.M.U.	PAINT	C.M.U.	PAINT	ROOFED STRUCTURE	PAINT	VARIABLE	PAINT ALL AREAS DAMAGED PRS CONST.
	BOILER ROOM (EXISTING)			NEW/EXIST.	NEW/EXIST.						EXISTING AREA TO REMAIN
	STORAGE (EXISTING)										" " " "
B-3	TOILET ROOM	C.T.	FAC.	C.T.	FAC.	C.M.U.	GLAZE PAINT	S.A.T.	FAC.	9'-0"	TYPE II S.A.T.
B-4	LOCKER ROOM	C.T.	FAC.	C.T.	FAC.	C.M.U.	GLAZE PAINT	S.A.T.	FAC.	9'-0"	TYPE II S.A.T.
S-1	STAIRS										ALL TREADS RISERS, STAIRNOPS, PLATFORMS, HANDRAILS TO BE ADD. ALUM.
S-2	STAIRS										" " " "
S-3	STAIRS										" " " "
S-4	STAIRS										" " " "
FIRST FLOOR LEVEL											
101	OFFICE	NEW V.A.T.	W&W	EXIST. GLAZE PAINT	EXIST. GLAZE PAINT	S.A.T.	FAC.	9'-4"			TYPE I SAT.
102	VESTIBULE			EXIST.	EXIST.			9'-4"			REMOVE EXIST. ASPH. F. FLOOR - REPLACE W/NEW V.A.T. TYPE I CLG.
103	TOILET			EXIST.	EXIST.			9'-4"			TYPE II CLG.
104	CORRIDOR			EXIST. & NEW	EXIST. & NEW			8'-4"			REMOVE EXIST. ASPH. F. FLOOR - REPLACE W/NEW V.A.T. TYPE I CLG.
105	CONTROL ROOM			EXIST.	EXIST.			9'-4"			" " " "
106	CHEMICAL ANALYSIS LAB.			EXIST. & NEW	EXIST. & NEW			9'-4"			REMOVE EXIST. FLOOR TILE - REPLACE W/NEW CHEMICAL RESIST VINYL TILE. TYPE I CLG.
107	STORAGE			EXIST.	EXIST.			9'-4"			REMOVE EXIST. ASPH. F. FLOOR - REPLACE W/NEW V.A.T. TYPE I CLG.
108	CORRIDOR			EXIST. & NEW	EXIST. & NEW			8'-4"			" " " "
109	CORRIDOR	NEW V.A.T.	W&W	NEW VINYL	NEW VINYL	S.A.T.	FAC.	9'-4"			TYPE I SAT. PAINT ALL WALLS
110	MECHANICAL ROOM	CONC.	S&H	C.M.U.	GLAZE PAINT	EXP. STRUCT.	GLAZE PAINT				PAINT ALL WALLS & CEILING, PIPES & DUCTWORK
111	BACTERIOLOGIST LAB.	NEW V.A.T.	W&W	VINYL	W&W	C.M.U.		9'-4"			TYPE I SAT. PAINT ALL WALLS - CHEMICAL RESISTANT FLOOR TILE
112	OFFICE	NEW V.A.T.	W&W	VINYL	W&W	S.A.T.	FAC.	9'-4"			" " " "
113	ELEC. CLOSET	CONC.	S&H	C.M.U.	GLAZE PAINT	C.M.U.	GLAZE PAINT				PAINT ALL WALLS & CLG.
114	FIRST AID	NEW V.A.T.	W&W	VINYL	W&W	C.M.U.	GLAZE PAINT	9'-4"			TYPE I SAT. PAINT ALL WALLS
115	COATS	NEW V.A.T.	W&W	VINYL	W&W	C.M.U.	GLAZE PAINT	9'-4"			PAINT WALLS & CLG.
116	WAITING	CLAY TILE	FAC.	BRICK	BRICK	S.A.T.	FAC.	9'-4"			TYPE I SAT.
117	ENTRY	V.A.T.	W&W	BRICK	BRICK	CEMENT PLASTER	PAINT	7'-3/2"			1/2" RUBBER MAT.
118	KITCHEN	V.A.T.	W&W	VINYL	W&W	C.M.U.	PAINT	9'-4"			TYPE I SAT.
119	LUNCH ROOM	V.A.T.	W&W	VINYL	W&W	C.M.U.	PAINT				" " " "
120	MENS' TOILET	C.T.	FAC.	C.T.	FAC.	C.M.U.	PAINT				" " " "
121	CORRIDOR	V.A.T.	W&W	VINYL	W&W	C.M.U.	PAINT	9'-4"			" " " "
122	JANITORS' CLOSET	C.T.	FAC.	C.T.	FAC.	C.M.U.	GLAZE PAINT				EXP. STRUCT.
123	FILE STORAGE	V.A.T.	W&W	VINYL	W&W	C.M.U.	PAINT				EXP. STRUCT.
124	RECEPTION	V.A.T.	W&W	VINYL	W&W	C.M.U.	PAINT	9'-4"			TYPE I SAT.
125	INDUST. WASTE INSPEC. OFFICE	CARPET		VINYL		WOOD PANELING	FAC.				" " " "
126	PLANT SUPERVISER	CARPET		VINYL		WOOD PANELING	FAC.				" " " "
127	LOUNGE	V.A.T.	W&W	VINYL	W&W	C.M.U.	PAINT				" " " "
128	WOMENS TOILET	C.T.	FAC.	C.T.	FAC.	C.M.U.	PAINT	9'-4"			TYPE II S.A.T. 4'-0" HIGH ST. WAINSCOT
129	SHOWER ROOM	C.T.	FAC.	C.T.	FAC.	C.T.	FAC.				TYPE II S.A.T.

DOOR AND FRAME SCHEDULE													
MARK	SIZE	TYPE	MAT.	DOORS			FRAMES			DETAILS			REMARKS
				PROFILE	TYPE	MAT.	HEAD	JAMB	SILL	HEAD	JAMB	SILL	
BASEMENT LEVEL													
101	PR. 3'-0" x 7'-0" x 1 3/4"	A	H.M.	2	I	P.V.C.	H-1	J-1	S-1			TOTAL WEATHERSTRIP	
102	3'-0" x 6'-8" x 1 3/4"	B		↑	I		H-2	J-2	S-1				
103	3'-0" x 6'-8" x 1 3/4"	B		↓	I		H-2	J-2	S-1				
104	3'-0" x 6'-8" x 1 3/4"	B		2	II	P.V.C.	H-2	J-2	S-1			TOTAL WEATHERSTRIP	
105	3'-0" x 7'-2" x 1 3/4"	A		1	I	P.M.	H-4	J-3	S-3				
106	3'-0" x 7'-2" x 1 3/4"	A	H.M.	1	I	P.M.	H-4	J-3	S-3				
107	3'-0" x 7'-2" x 1 3/4"	A	H.M.	1	I	P.M.	H-12	J-10				P LABEL DOOR & FRAME	
FIRST FLOOR LEVEL													
201	2'-0" x 6'-10" x 1 3/4"	A	H.M.	2	I	P.V.C.	H-5	J-4	S-4			TOTAL WEATHERSTRIP	
202	3'-2" x 7'-0" x 1 3/4"	C	ALUM.	2	II	P.V.C.	H-6	J-5	S-5			TOTAL WEATHERSTRIP	
203	3'-0" x 7'-2" x 1 3/4"	A	H.M.	1	I	P.V.C.	H-7	J-6					
204	3'-0" x 6'-10" x 1 3/4"	B		↑	↑	P.M.	H-12	J-10				EXISTING WALL	
205	3'-0" x 7'-2" x 1 3/4"	A		↑	↑		H-7	J-6					
206	3'-0" x 7'-2" x 1 3/4"	B		↑	↑		↑	↑					
207	3'-0" x 7'-2" x 1 3/4"	B		↓	↓		↓	↓					
208	PR. 3'-0" x 7'-2" x 1 3/4"	A		↓	↓		↓	↓					
209	3'-0" x 7'-2" x 1 3/4"	B		1	I	P.M.	H-7	J-6					
210	④ 1'-6" x 7'-2" x 1"	A					H-8	J-7				BI FOLD	
211	3'-0" x 7'-2" x 1 3/4"	B		1	I	P.M.	H-7	J-6					
212	3'-0" x 7'-2" x 1 3/4"	B	H.M.	1	↑	P.M.	H-13	J-9	S-6				
213	PR. 2'-0" x 7'-0" x 1 3/4"	C	ALUM.	2	↓	P.V.C.	H-9	J-8	S-5			TOTAL WEATHERSTRIP	
214	PR. 2'-0" x 7'-0" x 1 3/4"	C	ALUM.	2	I	P.V.C.	H-10	J-8					
215	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	2	I	P.V.C.	H-11	J-2	S-2			TOTAL WEATHERSTRIP	
216	3'-0" x 7'-2" x 1 3/4"	B	H.M.	1	III	P.M.	H-7	J-6					
217	FOLDING PARTITION - SEE DETAILS - THIS SHEET												
218	3'-0" x 7'-2" x 1 3/4"	B	H.M.	1	I	P.M.	H-7	J-6					
219	2'-6" x 7'-2" x 1 3/4"	A		1	I	P.M.	H-7	J-6					
220	(4) 1'-3" x 7'-2" x 1"	A					H-8	J-7				BI FOLD	
221	(4) 1'-3" x 7'-2" x 1"	A					H-8	J-7				BI FOLD	
222	3'-0" x 7'-2" x 1 3/4"	A		1	I	P.M.	H-7	J-6	S-3				
223	2'-8" x 7'-2" x 1 3/4"	A		1	I	P.M.	H-7	J-6					
224	3'-0" x 7'-2" x 1 3/4"	A		1	I	P.M.	H-7	J-6					
225	④ 1'-6" x 7'-2" x 1"	A					H-8	J-7				BI FOLD	
226	3'-0" x 7'-2" x 1 3/4"	A		1	I	P.M.	H-7	J-6					
227	3'-0" x 7'-2" x 1 3/4"	A		1	I	P.M.	H-7	J-6	S-3				
228	3'-0" x 7'-2" x 1 3/4"	B		1	I	P.M.	H-7	J-6					
229	3'-0" x 7'-2" x 1 3/4"	B		1	III	P.M.	H-7	J-6					
230	3'-0" x 7'-0" x 1 3/4"	A	H.M.	2	I	P.V.C.	H-11	J-2	S-2			TOTAL WEATHERSTRIP	



REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: J. JESSEY DESIGNED: F. CATALANO
 CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGURE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

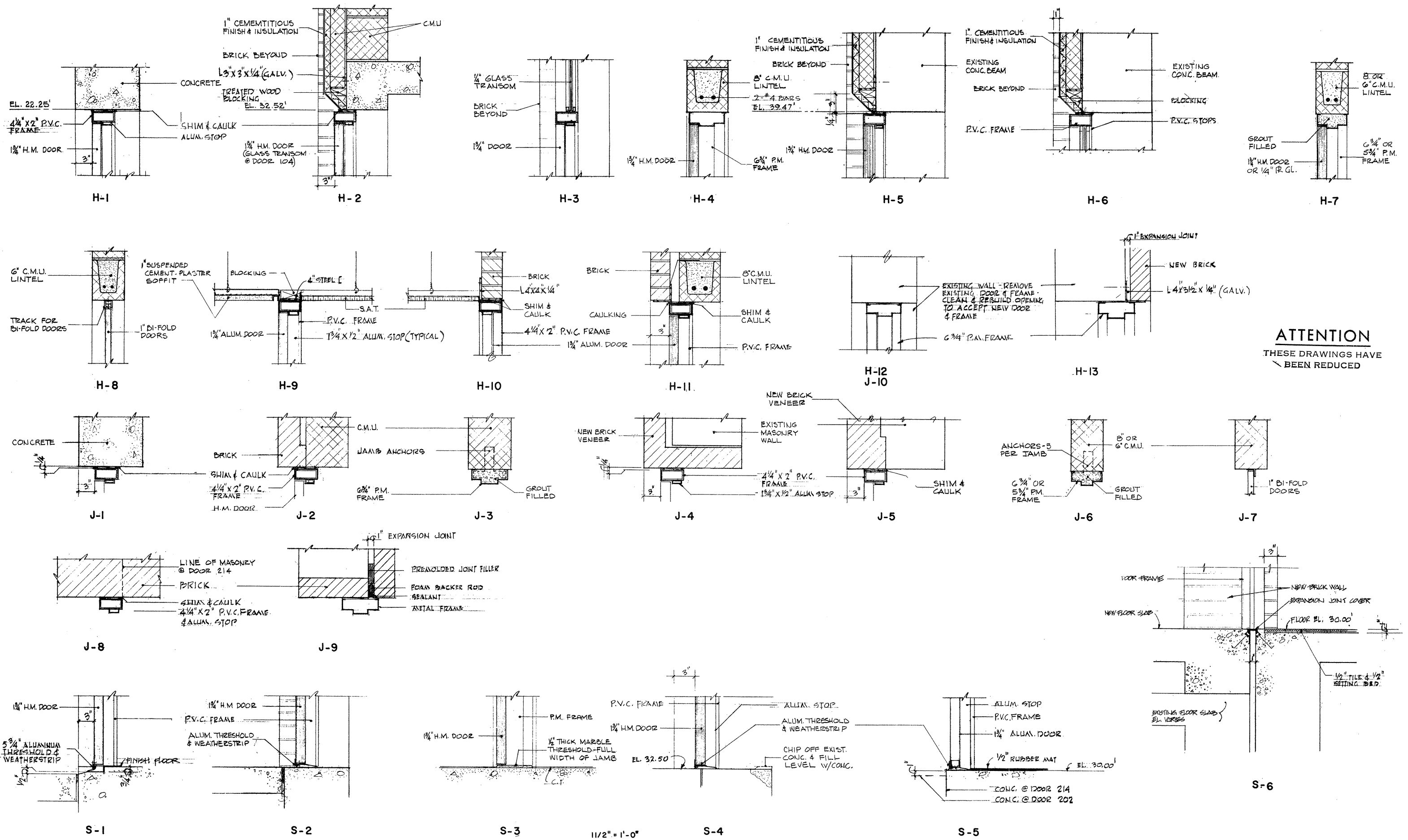
APPROVED: *Charles A. Magure*
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OPERATIONS BUILDING WITH PIPE GALLERY
DOOR & ROOM FINISH SCHEDULE

SCALE AS NOTED
 CEM NO. 1981
 DRAWING NO. **A-9**





REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



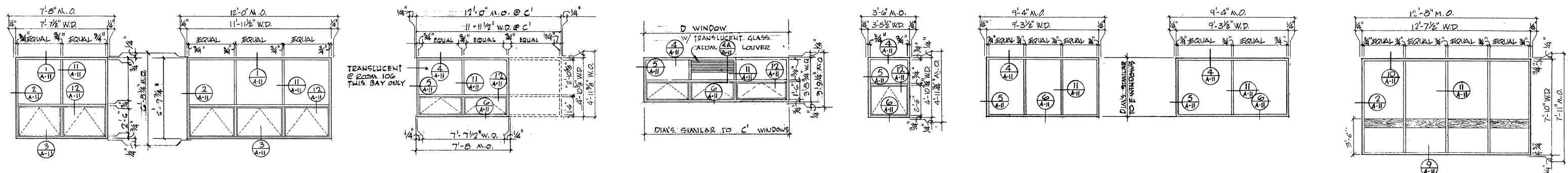
DRAWN: J. BRAUNROTH DESIGNED: F. CATALANO
 CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING WITH PIPE GALLERY

SCALE
 1 1/2" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
A-10



TYPE A

TYPE B

TYPE C & C'

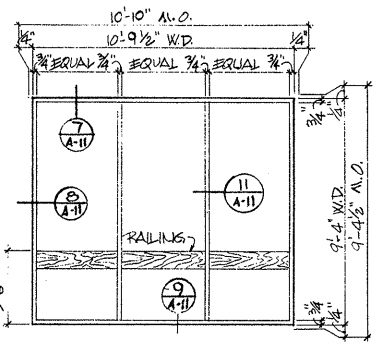
TYPE D

TYPE E

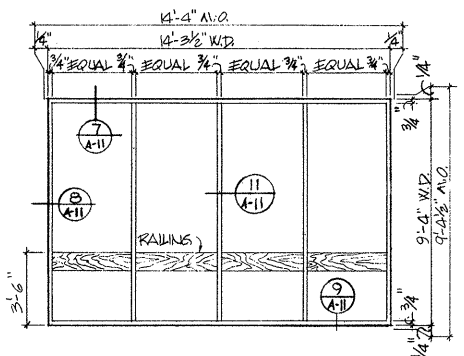
TYPE F

TYPE G

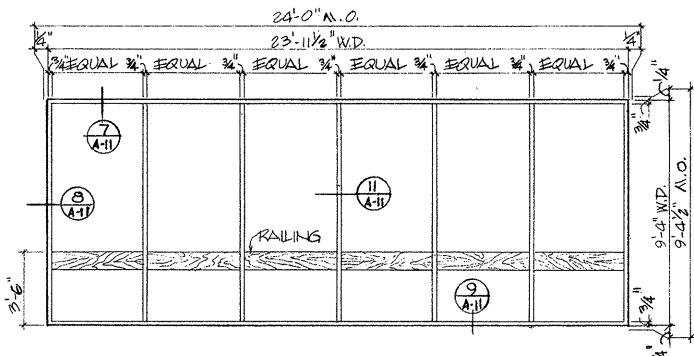
TYPE H



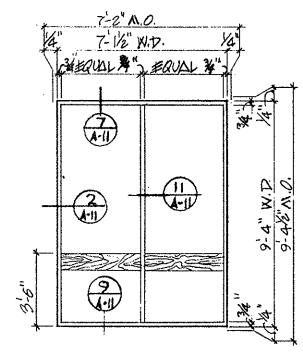
TYPE J



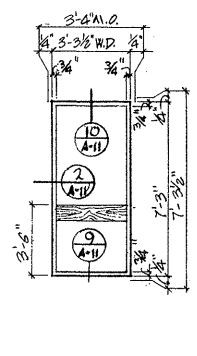
TYPE K



TYPE L



TYPE M

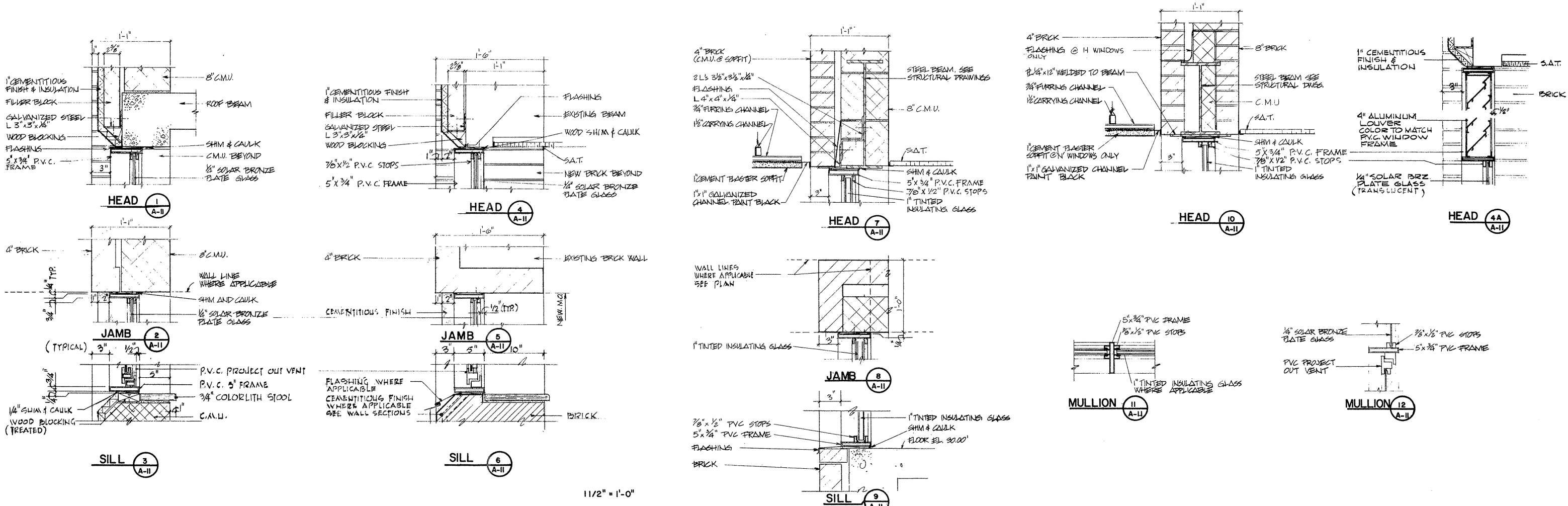


TYPE N

- NOTES
1. WINDOWS A THRU G - 1/4" SOLAR BRONZE PLATE GLASS
 2. WINDOWS H THRU N - 1" TINTED INSULATING GLASS
 3. 1/4" SHIM & CAULK ALL AROUND FRAMES
 4. FOR HANDRAIL DETAIL SEE DRAWING NO. A-4
 5. AT WINDOW C' (ROOM LOG ONLY) PROVIDE TRANSLUCENT GLASS FOR 1/3 OF WINDOW UNIT.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

WINDOW ELEVATIONS - OPERATIONS BUILDING



REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

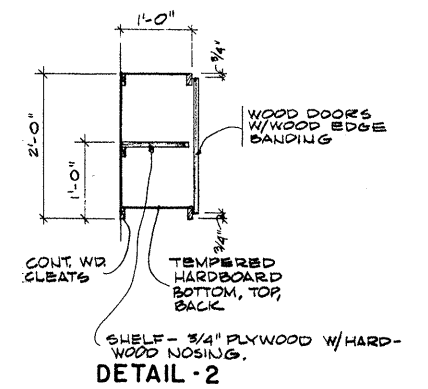
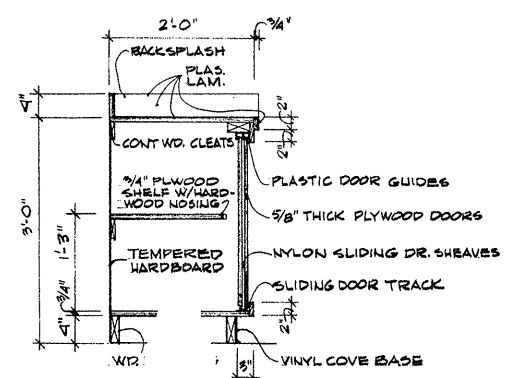
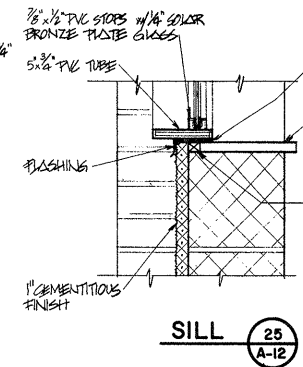
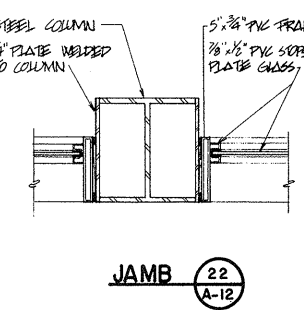
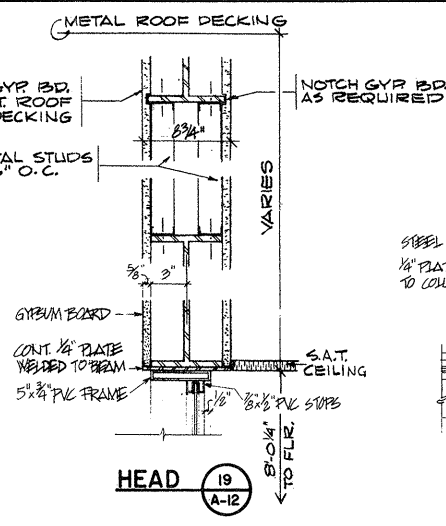
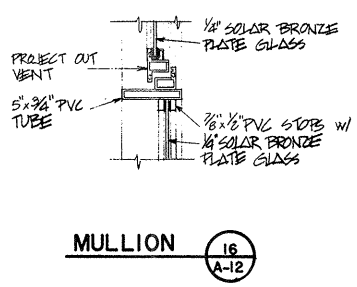
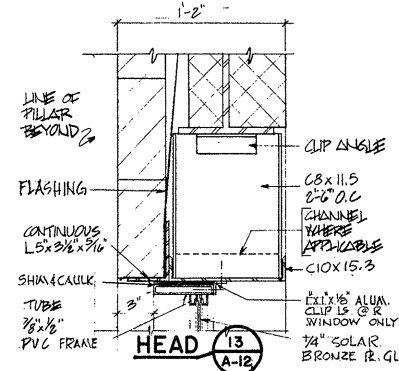


DRAWN: L. MAZZUCHELLI DESIGNED: F. CATALANO
 CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS - ENGINEERS - PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. King
 CITY OF TAUNTON

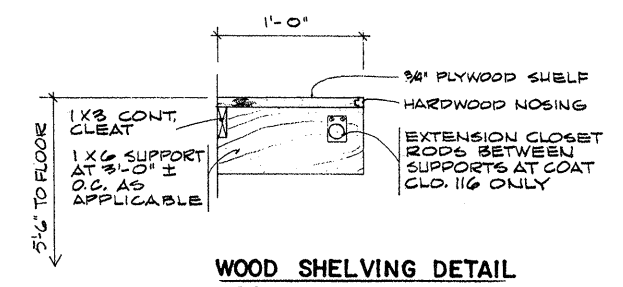
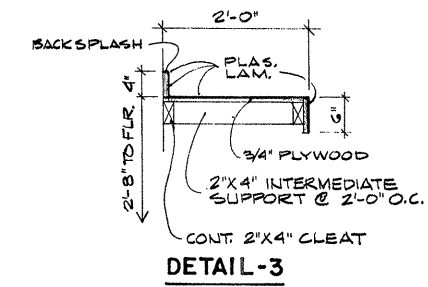
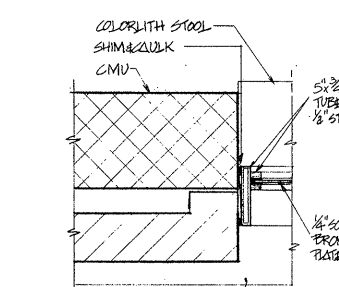
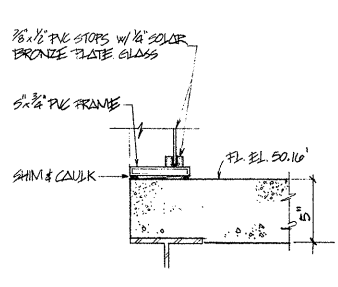
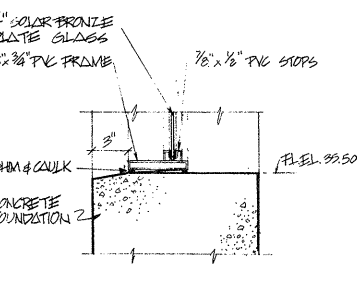
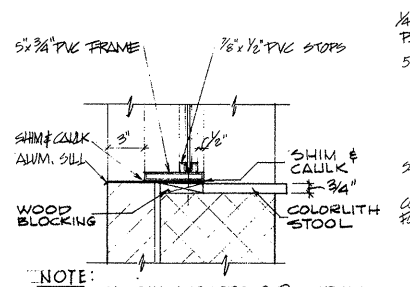
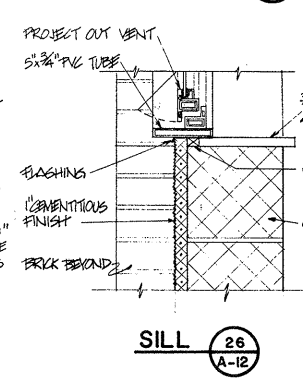
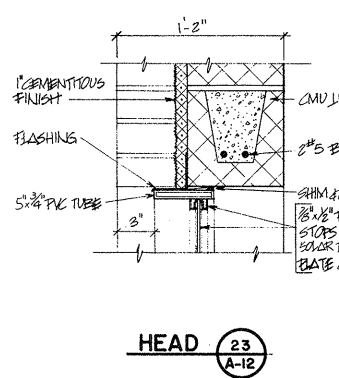
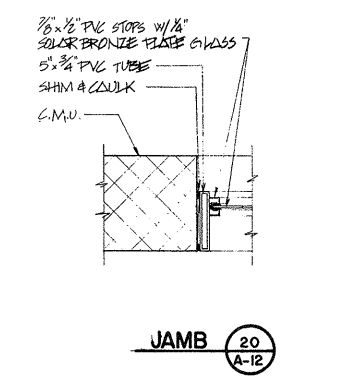
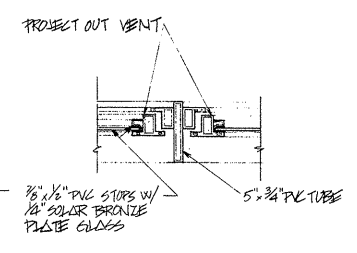
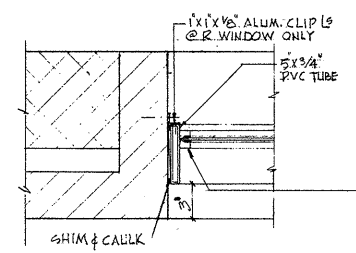
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING WITH PIPE GALLERY
WINDOW DETAILS

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
A-11



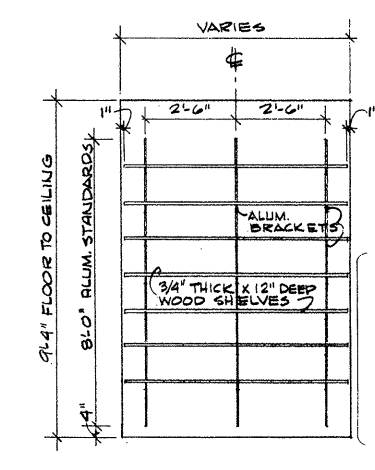
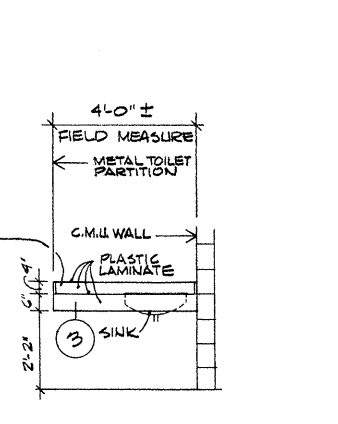
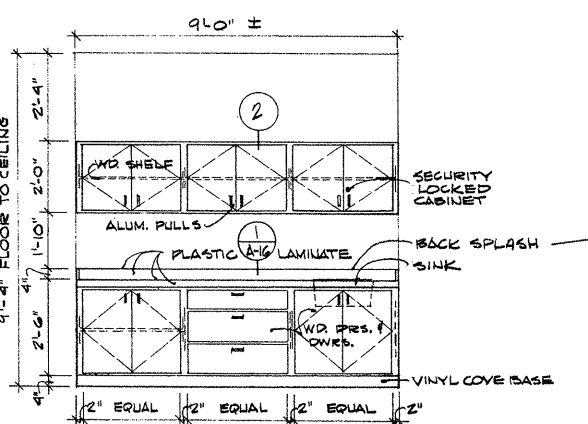
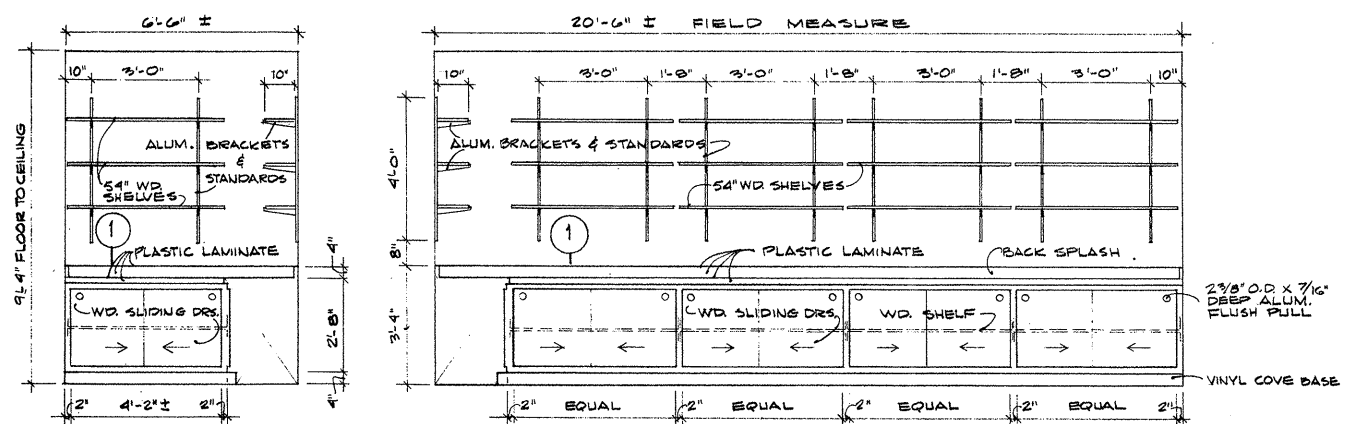
3/4" = 1'-0"

- GENERAL NOTES - COUNTERS & WALL CABINETS - TYPICAL:
1. ALL HINGED DOORS & DRAWERS TO BE EDGE BANDED W/ WOOD TAPE TO MATCH FRONTS.
 2. TWO ALUMINUM HINGES PER DOOR, ONE ALUMINUM PULL PER DOOR AND PER DRAWER.
 3. ALL HINGED DOORS - MAGNETIC CATCHES TOP & BOTTOM.
 4. DRAWERS TO BE EQUIPPED WITH SIDE-MOUNTED METAL EXTENSION SLIDES AND NYLON ROLLERS.



WOOD SHELVING DETAIL
ROOM 115 & 122 OPERATIONS
BUILDING - & ROOM 106
SLUDGE HANDLING BUILDING

11/2" = 1'-0"



ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

3/8" = 1'-0"
OPERATIONS BUILDING

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

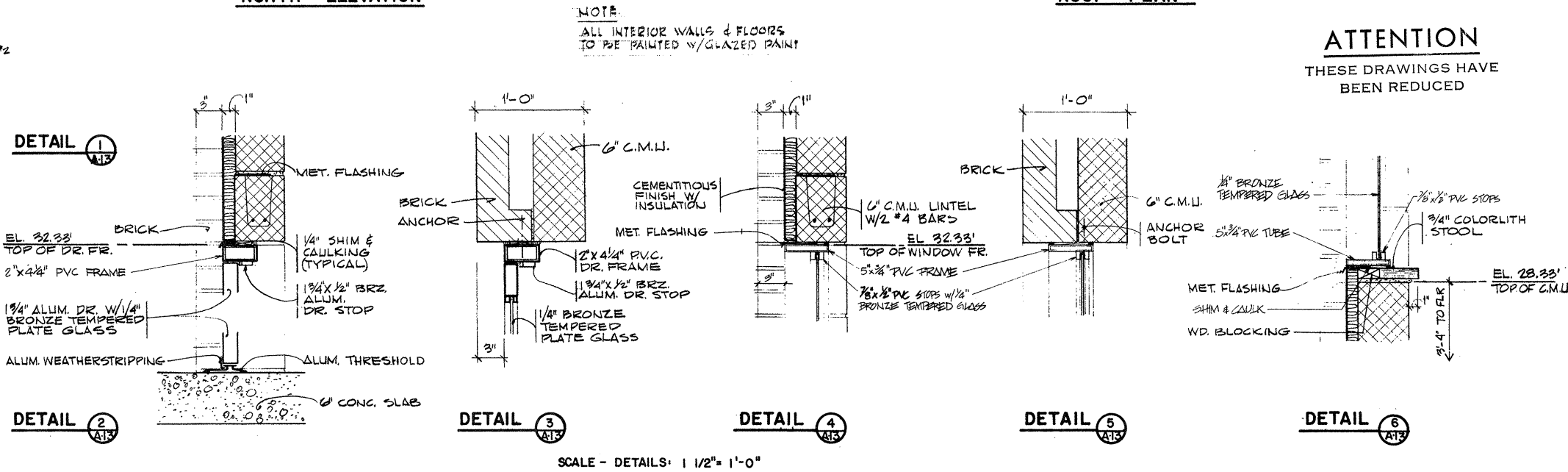
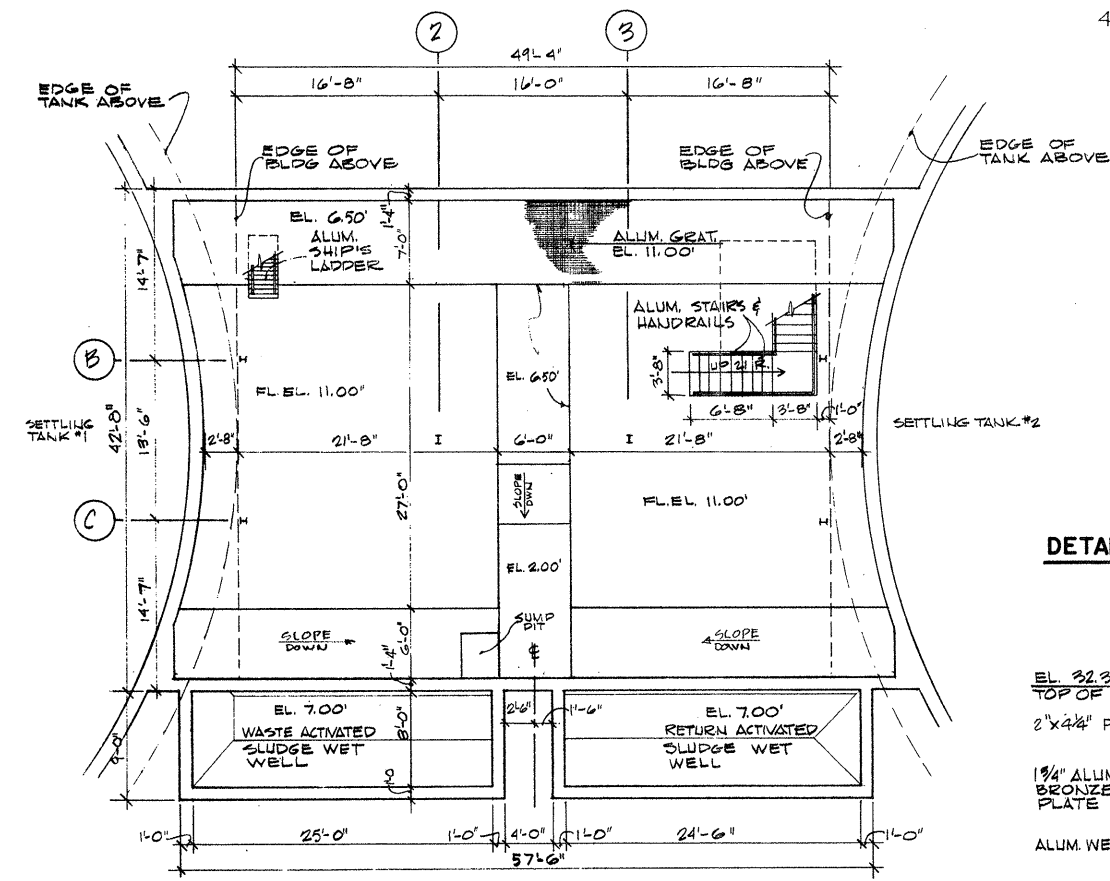
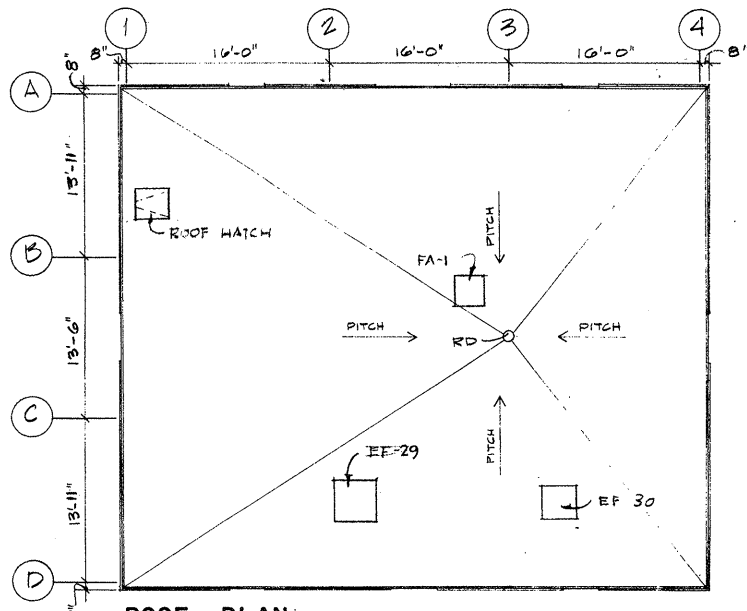
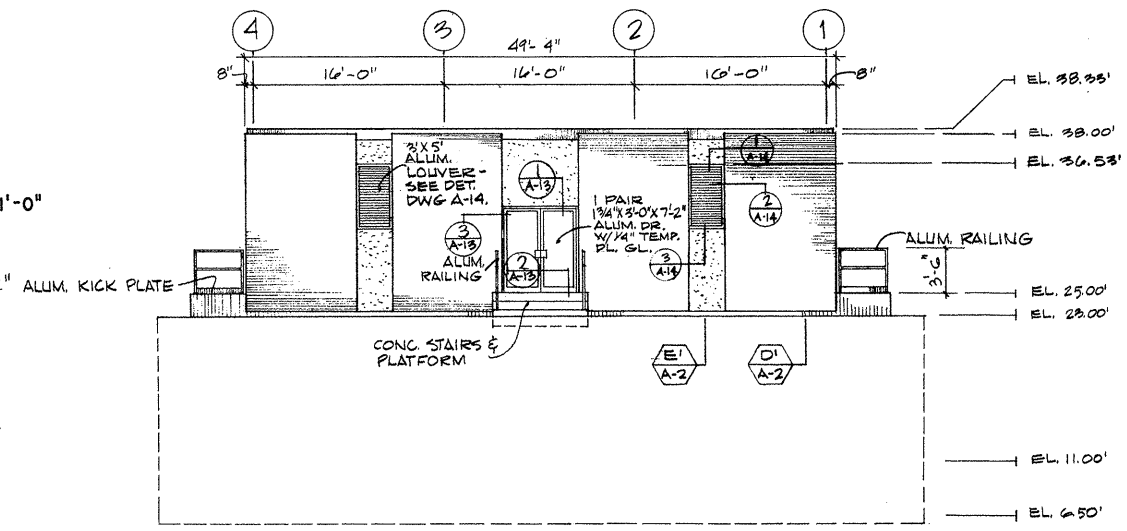
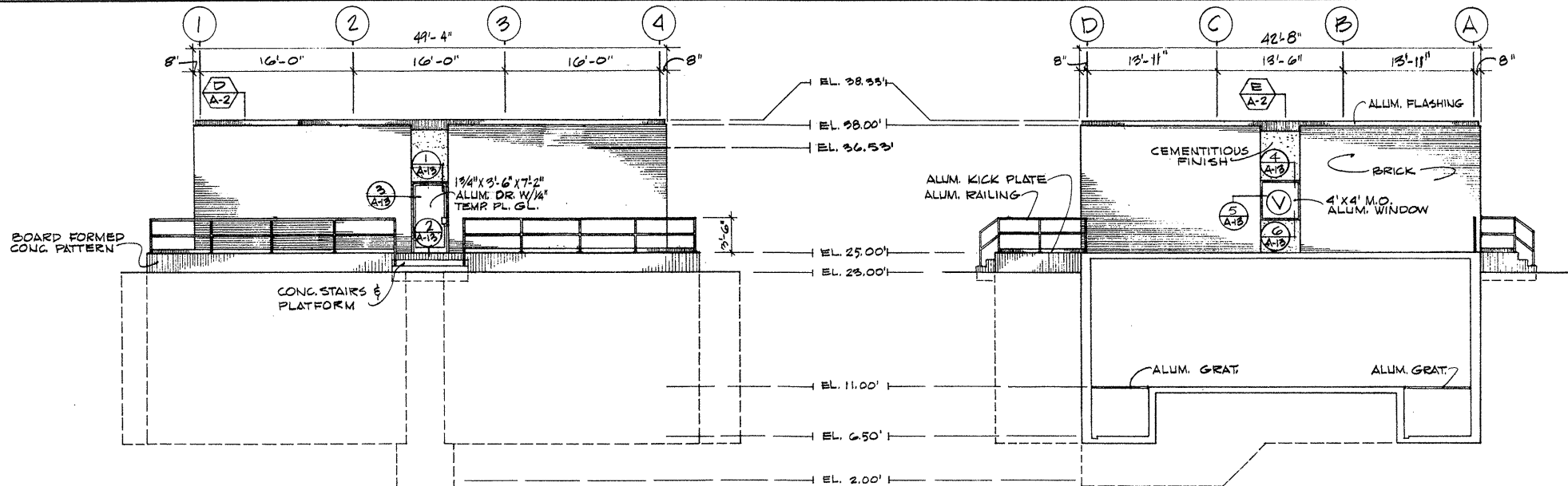
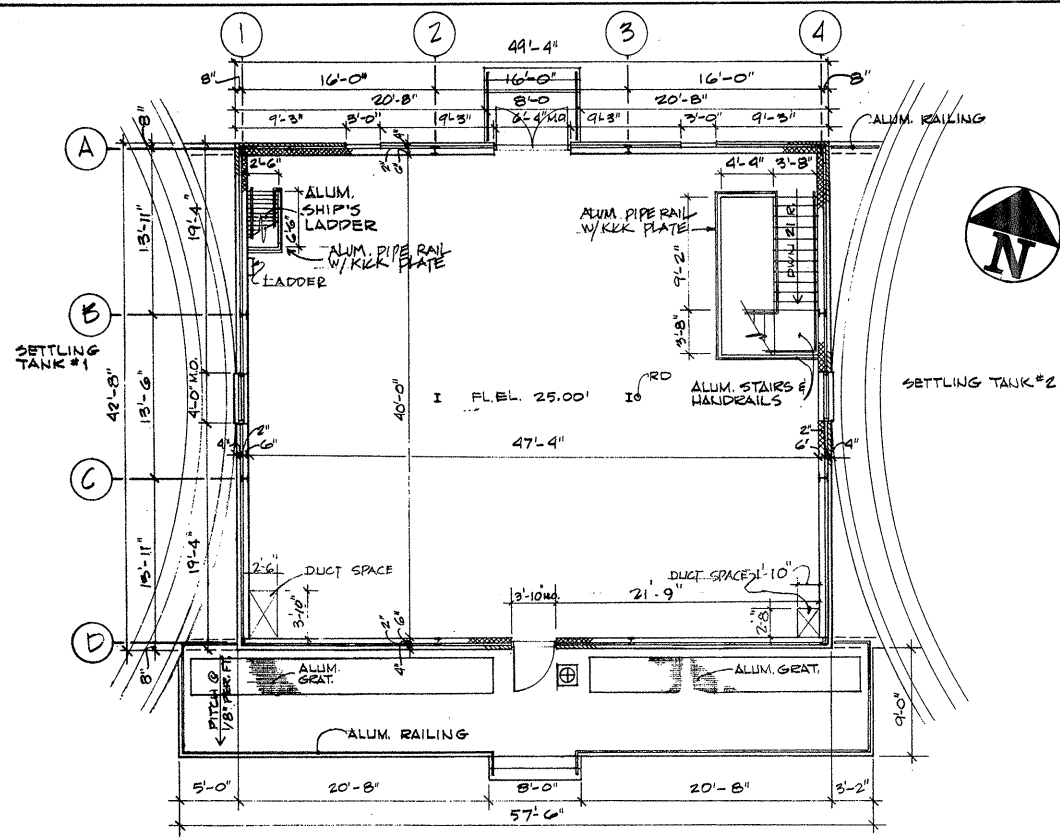


DRAWN: L. MAZZUCHELLI DESIGNED: F. CATALANO
CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
DATE: JULY, 1974
CE MAGUIRE, INC.
ARCHITECTS - ENGINEERS - PLANNERS
PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Long
CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
MISC. & WINDOW DETAILS

SCALE
AS NOTED
CEM NO. 1981
DRAWING NO.
A-12



NOTE:
ALL INTERIOR WALLS & FLOORS
TO BE PAINTED W/ GLAZED PAINT

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: D. OLIVEIRA DESIGNED: D. OLIVEIRA
 CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

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Charles G. Long
 CITY OF TAUNTON

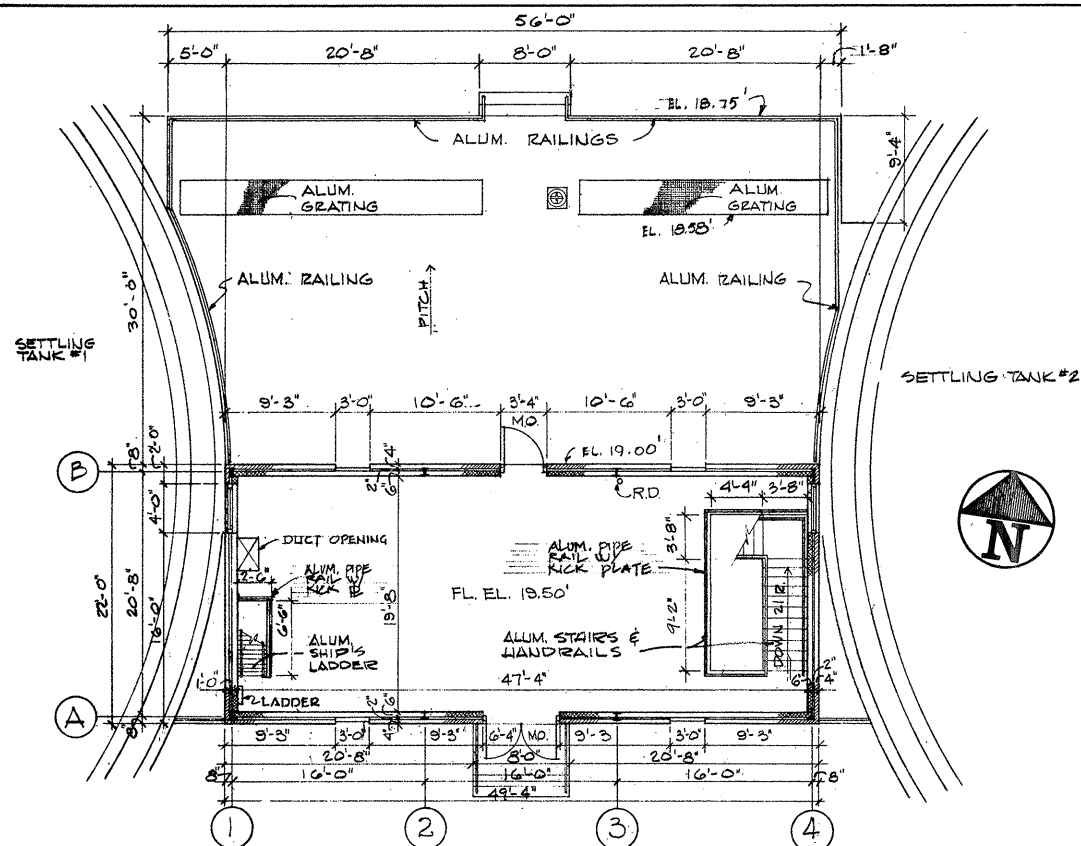
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

SLUDGE PUMPING STATION NUMBER 1
PLANS, ELEVATIONS & DETAILS

SCALE
AS NOTED

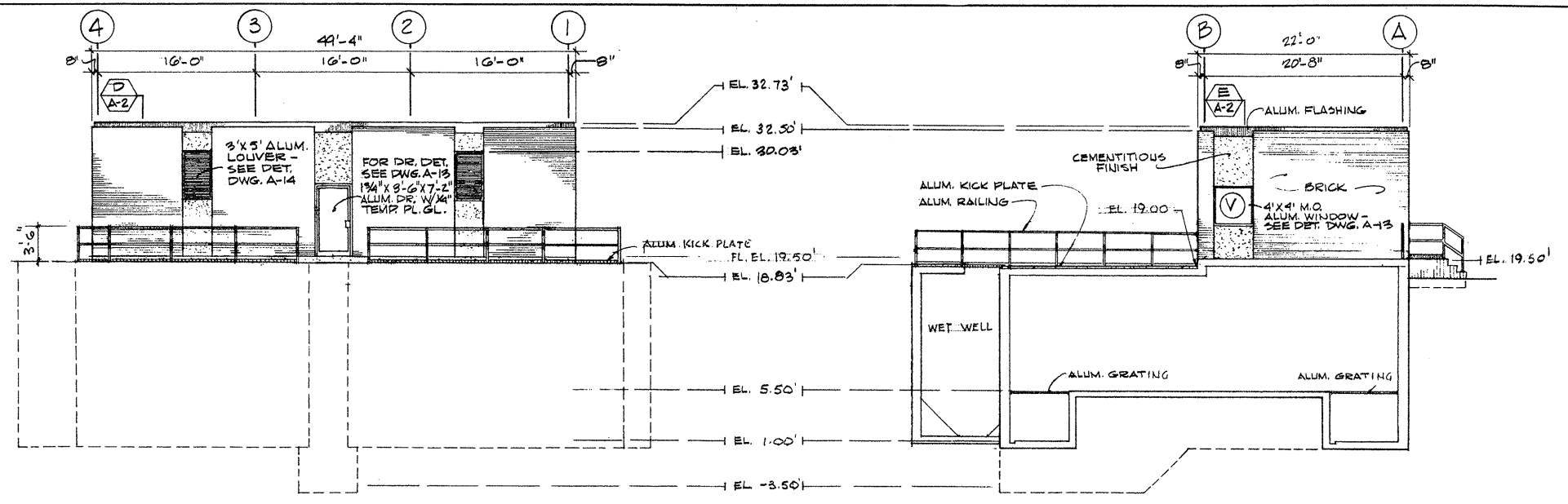
CEM NO. 1981

DRAWING NO.
A-13



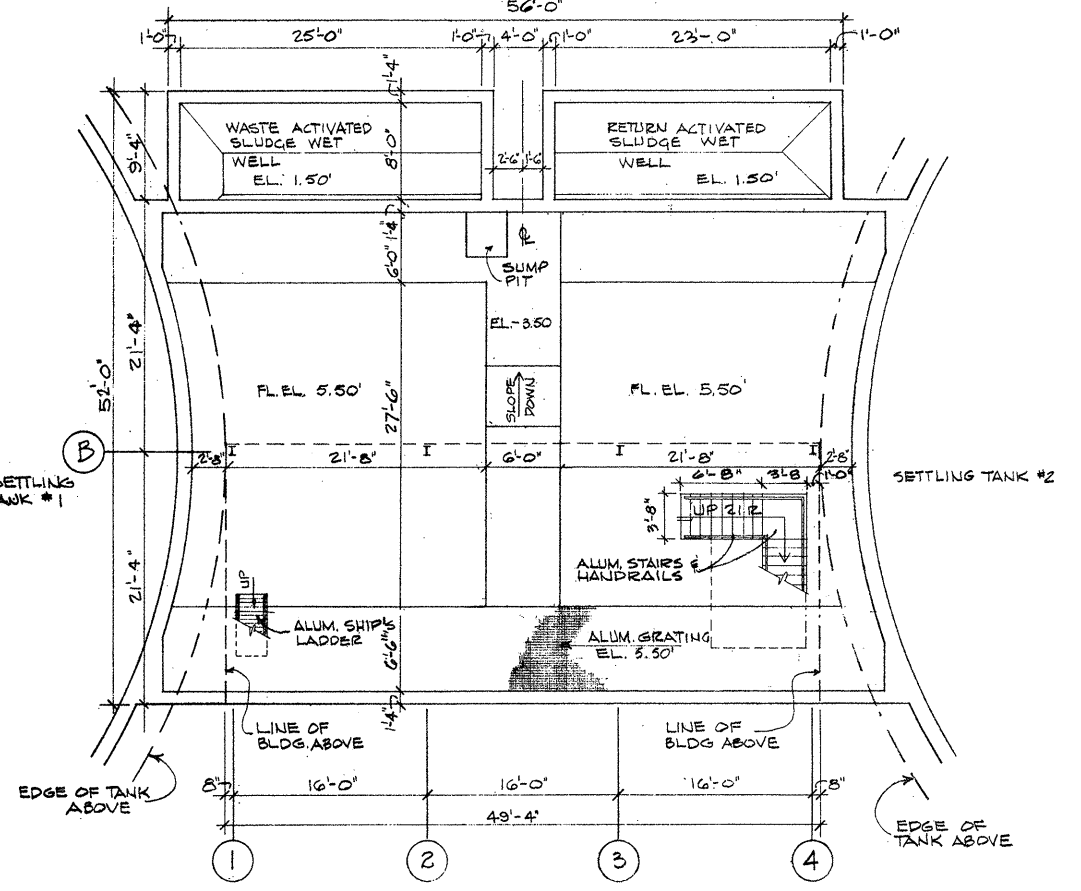
FIRST FLOOR ELEVATION

SCALE - PLANS & ELEVATIONS: 1/8" = 1'-0"

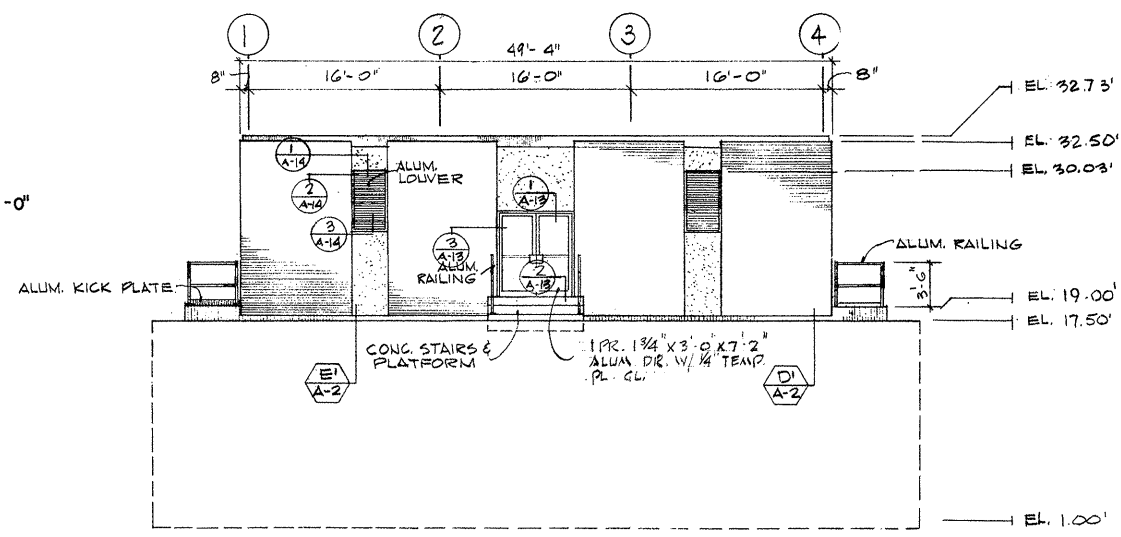


NORTH ELEVATION

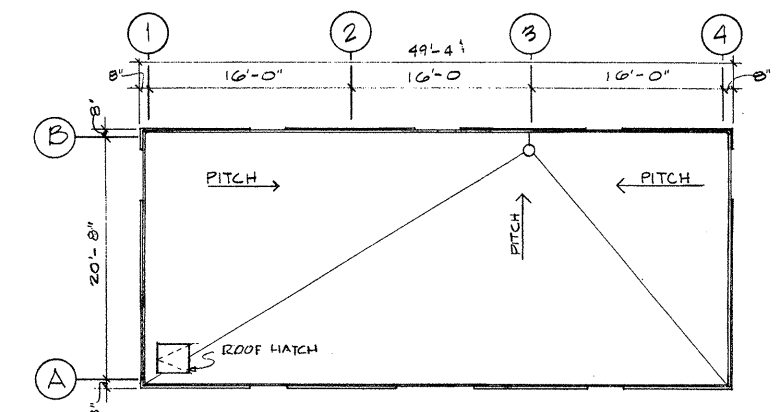
WEST ELEVATION EAST ELEVATION (OPPOSITE HAND)



BASEMENT FLOOR PLAN

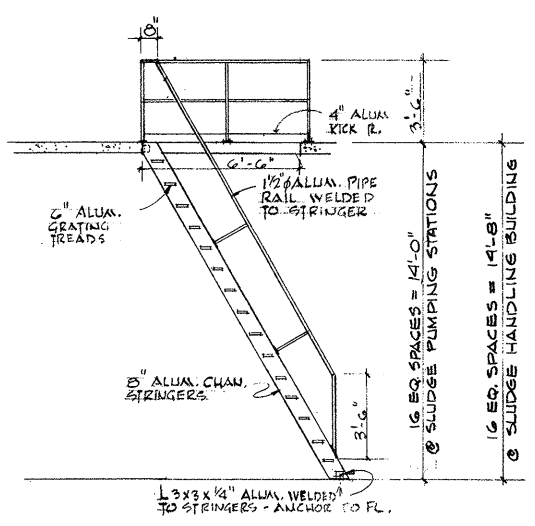


SOUTH ELEVATION



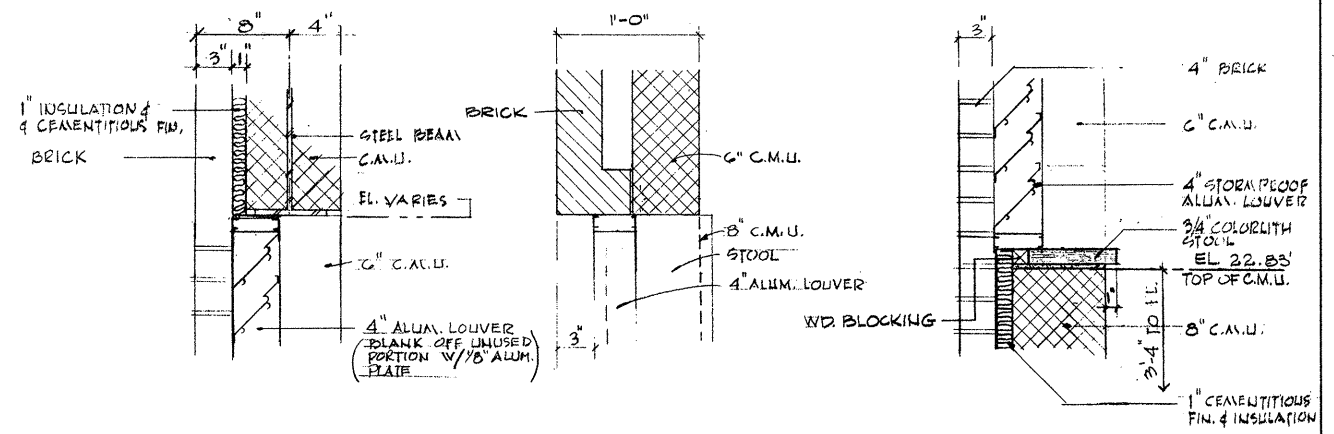
ROOF PLAN

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED



SHIPS LADDER DETAIL
1/4" = 1'-0"

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



DETAIL 1

DETAIL 2

DETAIL 3

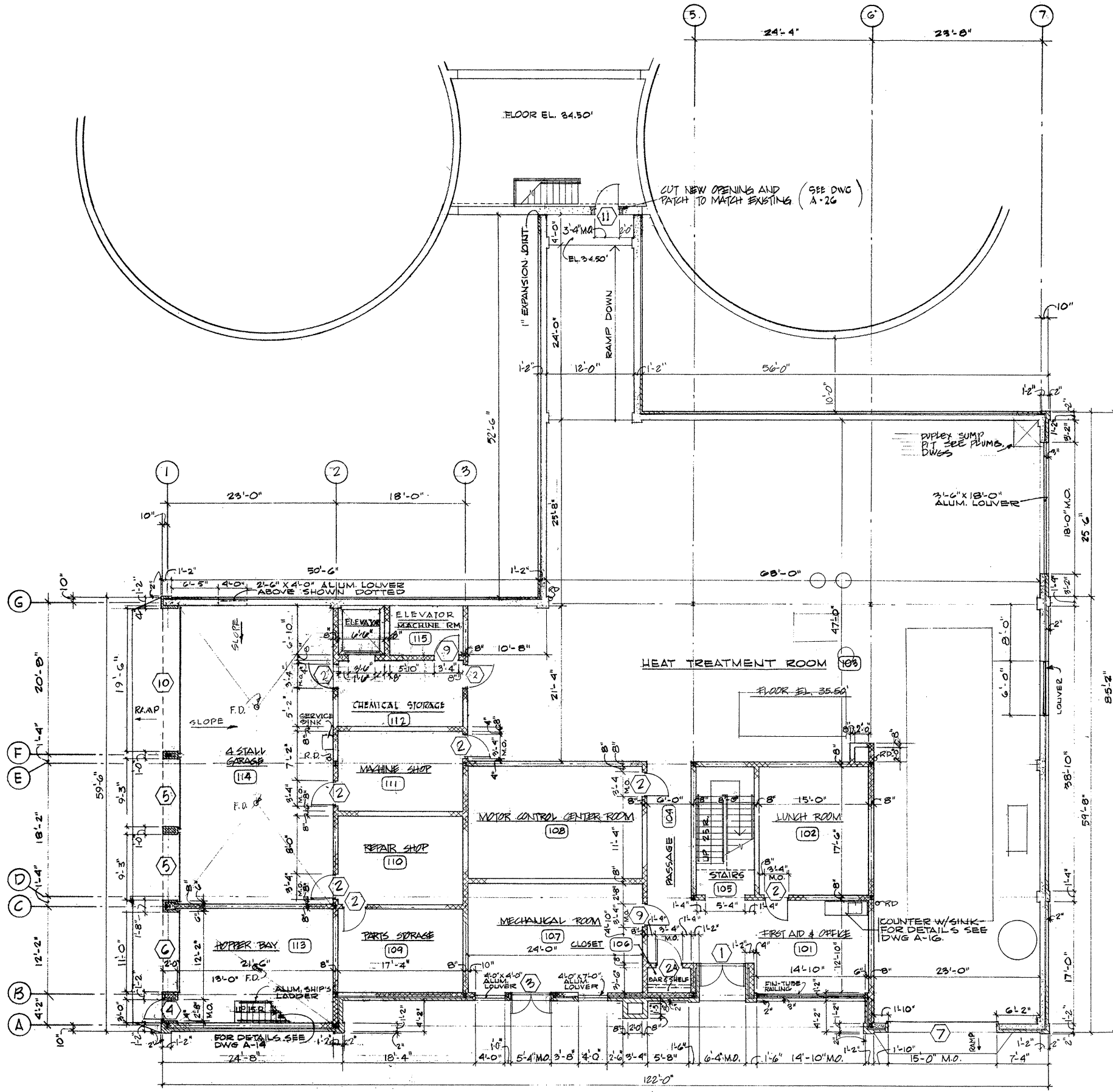
REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: D. OLIVEIRA DESIGNED: D. OLIVEIRA
 CHECKED: F. CATALANO APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS - ENGINEERS - PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE PUMPING STATION, NUMBER - 2
 PLANS, ELEVATIONS & DETAILS.
 SCALE AS NOTED
 CEM NO. 1981
 DRAWING NO. **A-14**

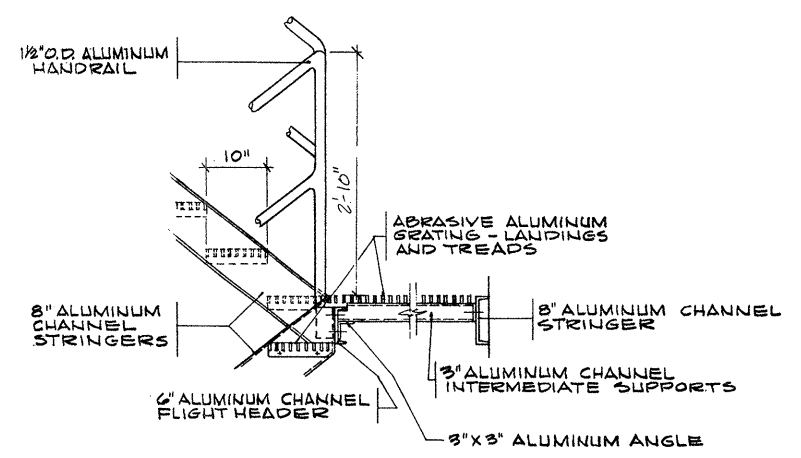


FIRST FLOOR PLAN
1/8" = 1'-0"

ROOM FINISH SCHEDULE										
NO.	ROOM NAME	FLOOR		BASE		WALLS		CEILING		REMARKS
		MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	
101	FIRST AID & OFFICE	VAT.	W&W	VINYL	W&W	C.M.U.	GLAZE PAINT	SAT.-I	FAC.	7'-9 3/8"
102	LUNCH	VAT.	W&W	VINYL	W&W	C.M.U.		SAT.-I	FAC.	8'-0"
103	HEAT TREATMENT	CONC.	S&H			C.M.U. & CONC.		EXPD. STR.	PAINT	VARIES
104	PASSAGE	VAT.	W&W	VINYL	W&W	C.M.U.		SAT.-I	FAC.	7'-9 3/8"
105	STAIRS	VAT.	W&W	VINYL	W&W					
106	CLOSET	VAT.	W&W	VINYL	W&W			SAT.-I	FAC.	8'-0"
107	MECHANICAL	CONC.	S&H					EXPD. STR.	PAINT	VARIES
108	MOTOR CONTROL									
109	PARTS STORAGE									
110	REPAIR SHOP									
111	MACHINE SHOP					C.M.U.				
112	CHEMICAL STORAGE					C.M.U. & CONC.				
113	HOPPER BAY					C.M.U.				
114	4 STALL GARAGE					C.M.U. & CONC.				VARIES
115	ELEVATOR MACH. RM.	CONC.	S&H			C.M.U. & CONC.		EXPD. STR.	PAINT	
201	CONTROL	VAT.	W&W	VINYL	W&W	C.M.U.		SAT.-I	FAC.	8'-0 1/4"
202	LOCKER	C.T.	FAC.	C.T.	FAC.			SAT.-II	FAC.	8'-0 1/4"
203	TOILET	C.T.	FAC.	C.T.	FAC.			SAT.-II	FAC.	8'-0 1/4"
204	LAUNDRY	C.T.	FAC.	C.T.	FAC.			SAT.-II	FAC.	8'-0 1/4"
205	UPPER REACTOR AREA	CONC.	S&H					EXPD. STR.	PAINT	VARIES
206	FILTER	*Q.T.	FAC.	*Q.T.	FAC.	C.M.U.	GLAZE PAINT	EXPD. STR.	PAINT	VARIES * 6" X 6" FLOOR TILE W/ 6" TILE COVE BASE



NOTES
1. FOR DOOR SCHEDULE SEE DRAWING A-19



TYPICAL ALUMINUM STAIR DETAILS
3/4" = 1'-0"

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

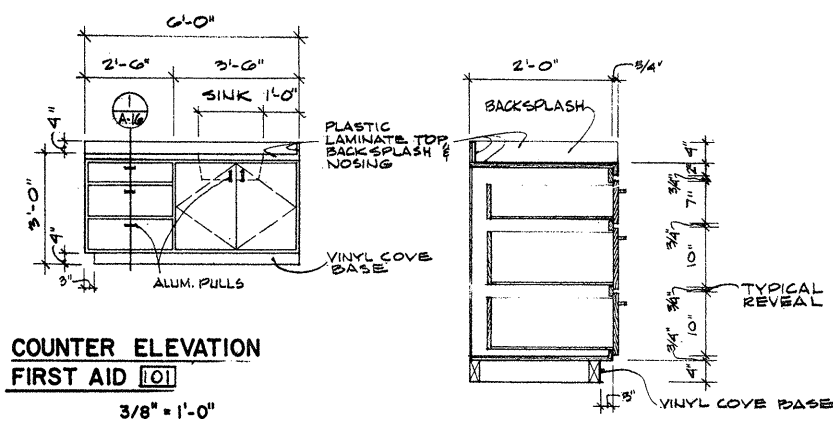


DRAWN: D. OLIVEIRA. DESIGNED: J. CIRILLO
 CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
FIRST FLOOR PLAN, RM. FIN. SCHED. & DETAILS

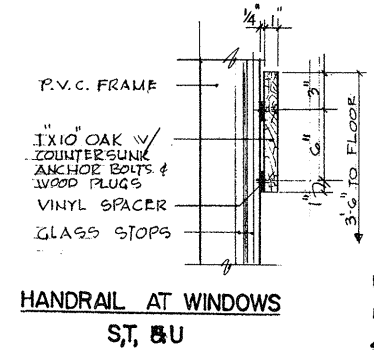
SCALE
AS NOTED
 CEM NO. 1981
 DRAWING NO.
A-15



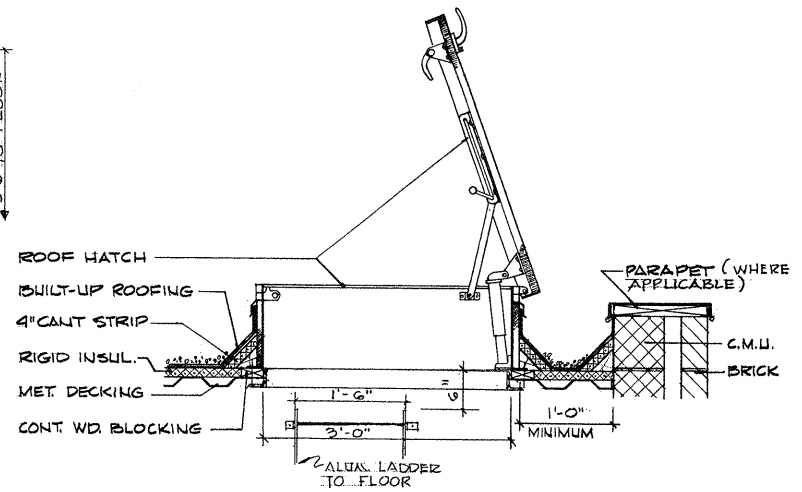
COUNTER ELEVATION
FIRST AID 101
3/8" = 1'-0"

DETAIL
3/4" = 1'-0"

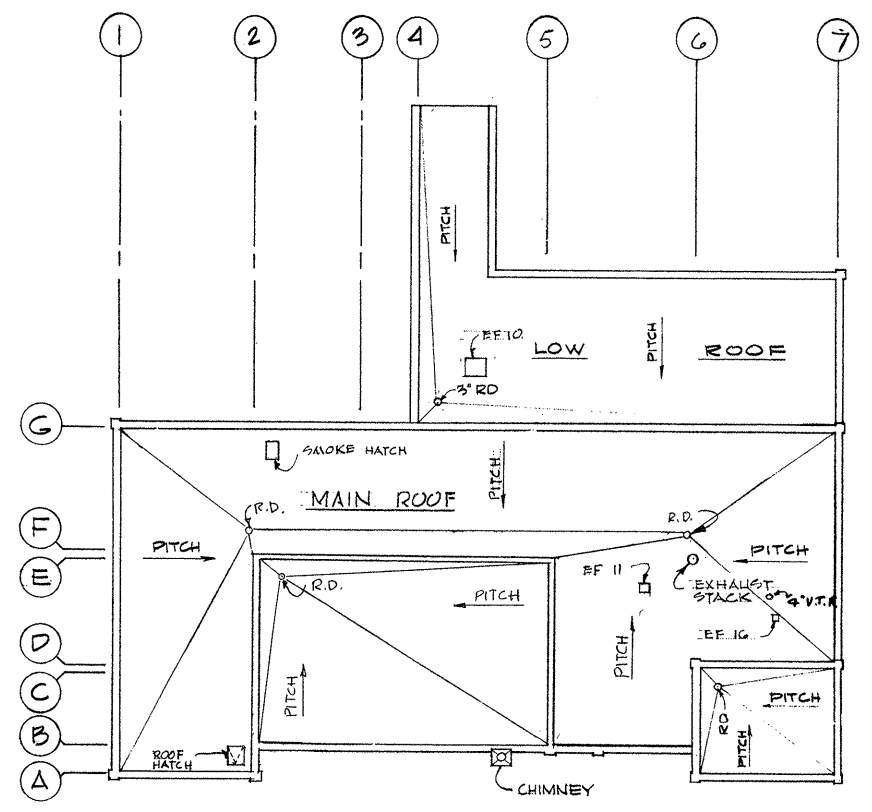
NOTES: 1/4" REVEALS AROUND ALL DRAWERS & DOORS.
PAINT GRADE EXPOSED WOOD SURFACES: REVEALS,
DOORS, DRAWERS, SIDE OF COUNTER.



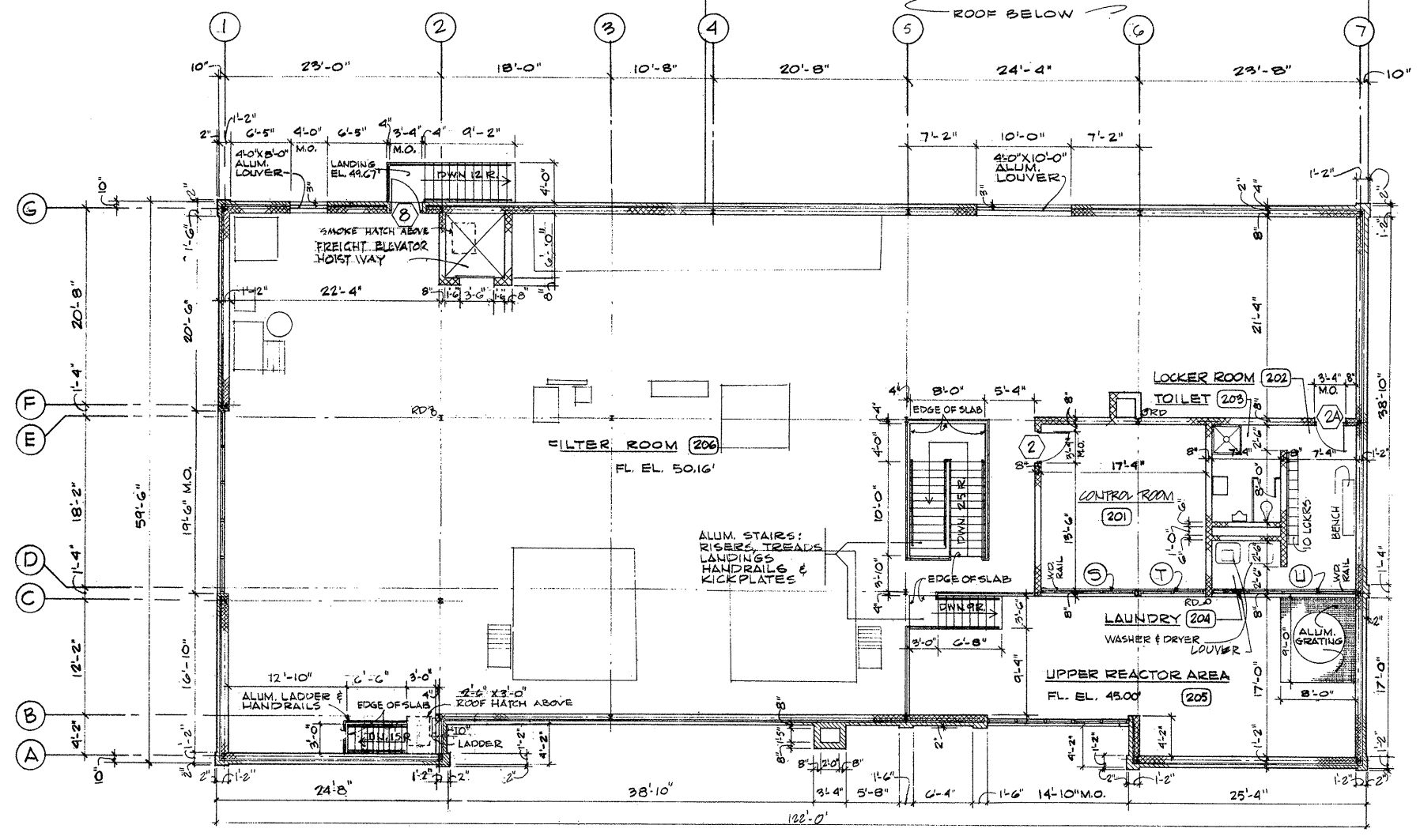
HANDRAIL AT WINDOWS
S,T, & U



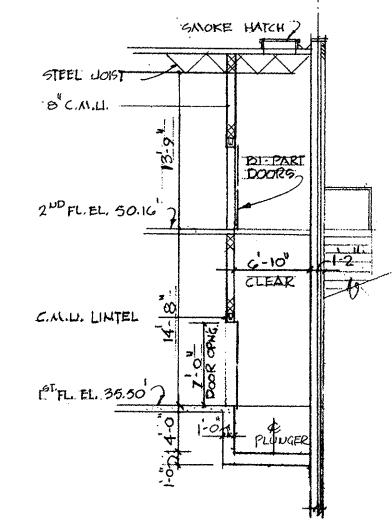
ROOF HATCH DETAIL (N.T.S.)
SMOKE HATCH SIMILAR W/ FUSIBLE LINK & NO LADDER



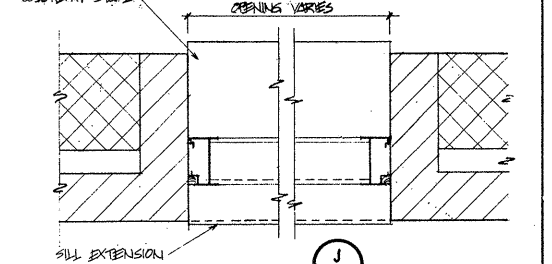
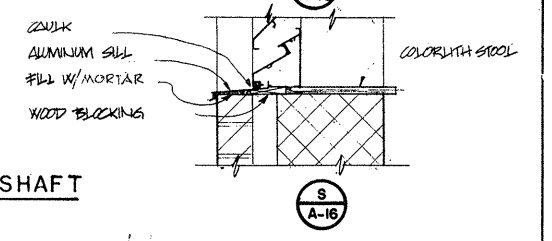
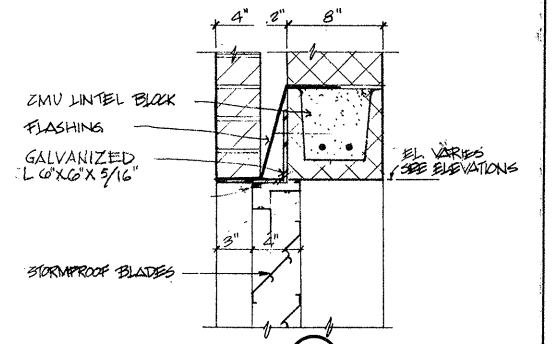
ROOF PLAN
1/16" = 1'-0"



SECOND FLOOR PLAN
1/8" = 1'-0"



SECTION THRU ELEVATOR SHAFT
1/8" = 1'-0"



LOUVER DETAILS
1/2" = 1'-0"

ATTENTION
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BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



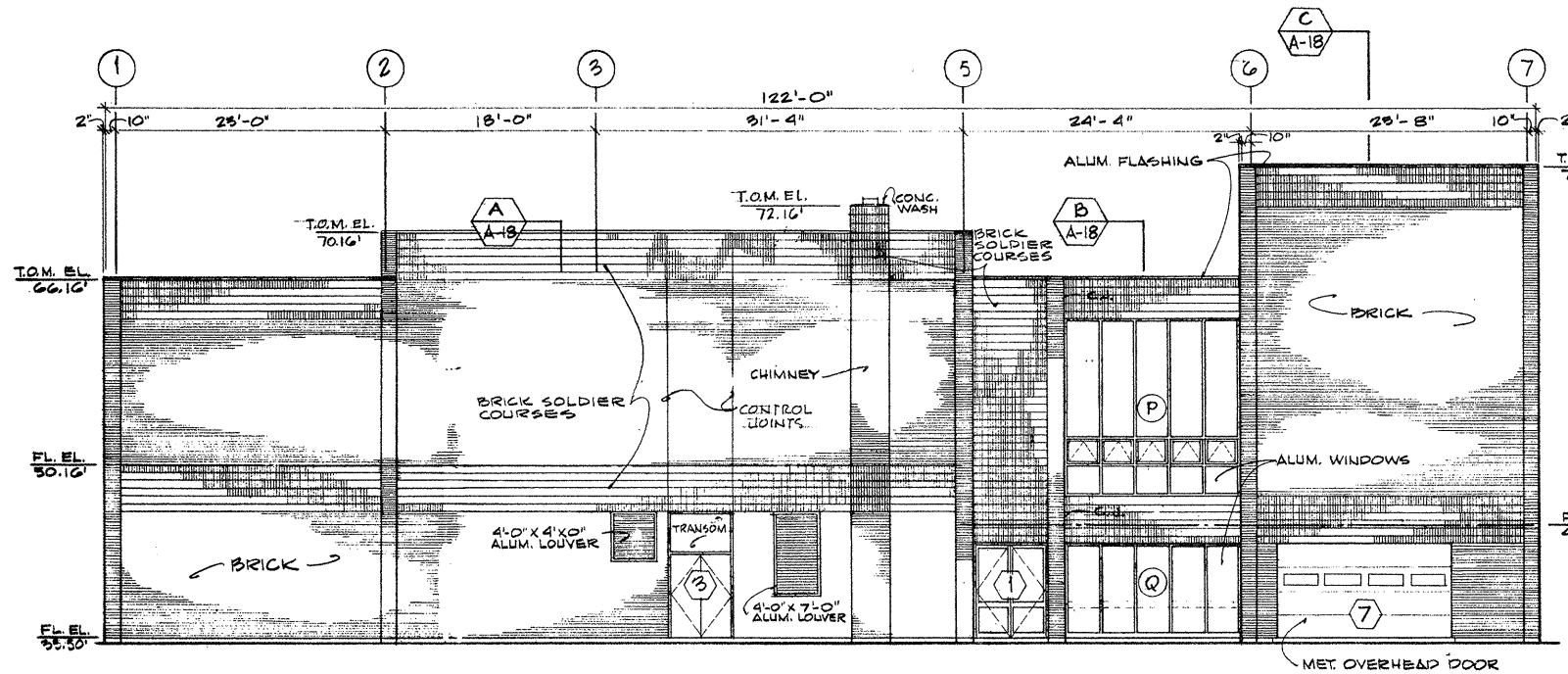
DRAWN: D. OLIVEIRA DESIGNED: J. CIRILLO
CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
DATE: JULY, 1974

CE MAGUIRE, INC.
ARCHITECTS • ENGINEERS • PLANNERS
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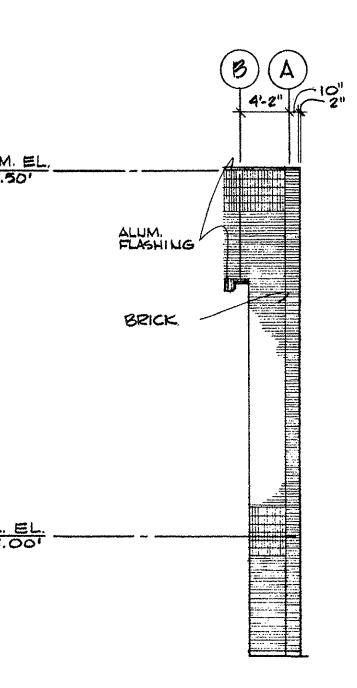
APPROVED
Charles A. King
CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
SLUDGE HANDLING BUILDING

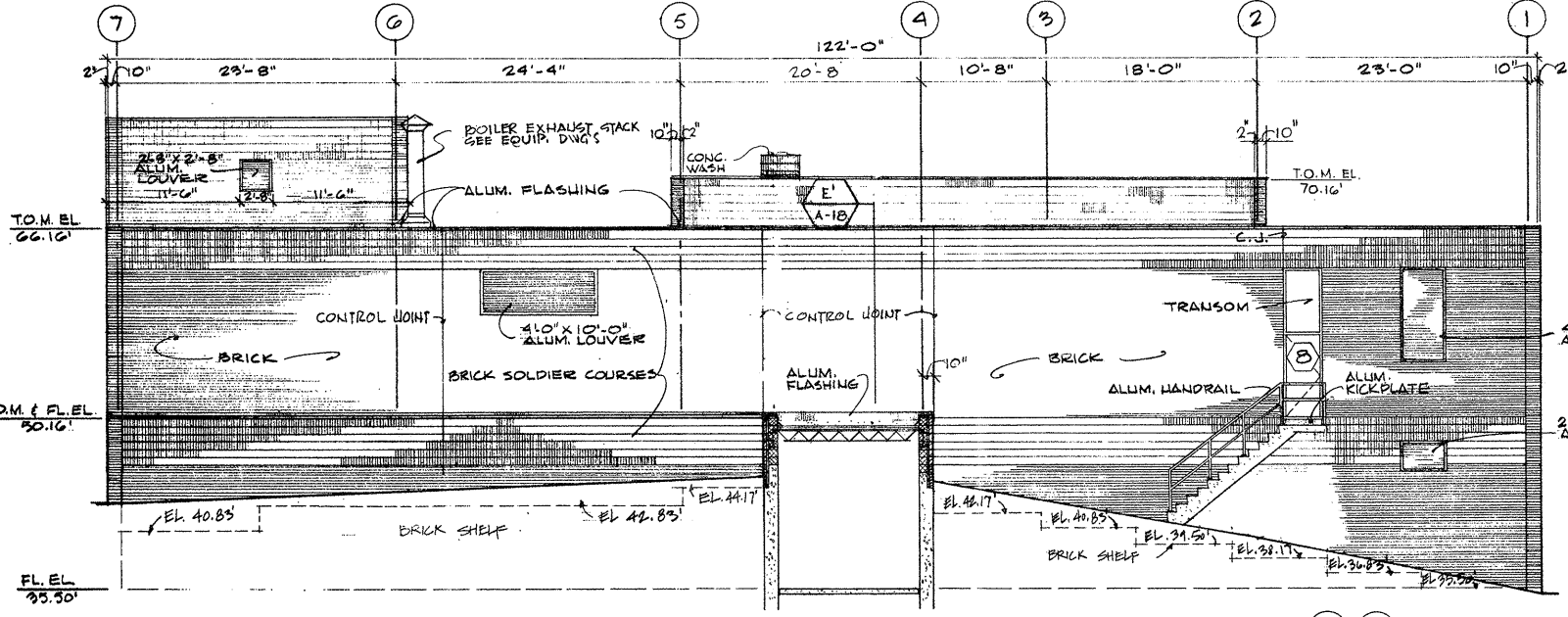
SCALE
AS NOTED
CEM NO. 1981
DRAWING NO.
A-16



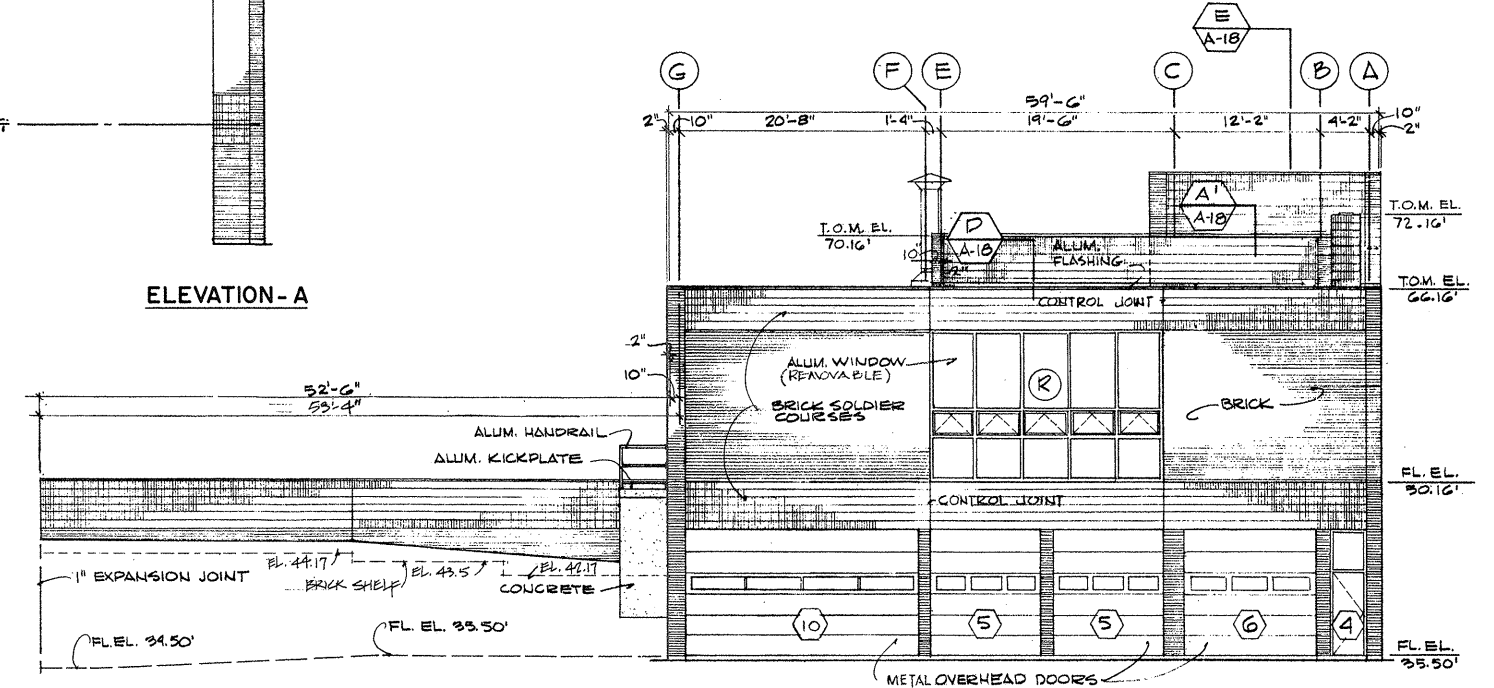
WEST ELEVATION



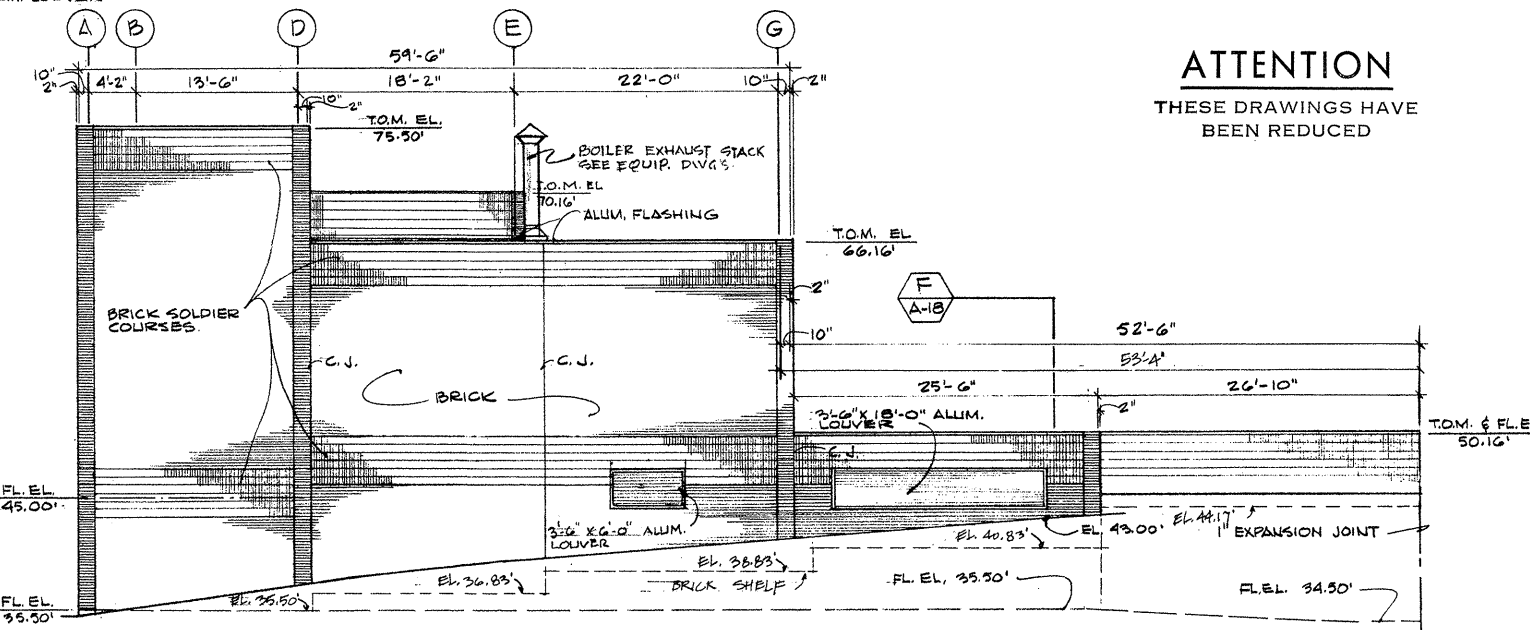
ELEVATION-A



EAST ELEVATION



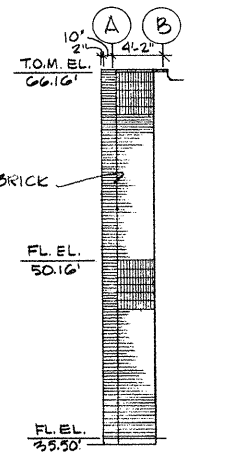
NORTH ELEVATION



SOUTH ELEVATION

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

NOTES: ALUMINUM LOUVERS TO MATCH COLOR OF P.V.C. WINDOW FRAMES. FOR ALUMINUM LOUVER DETAILS SEE DRAWING A-16.



ELEVATION-B

1/8" = 1'-0"

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



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 DATE: JULY, 1974

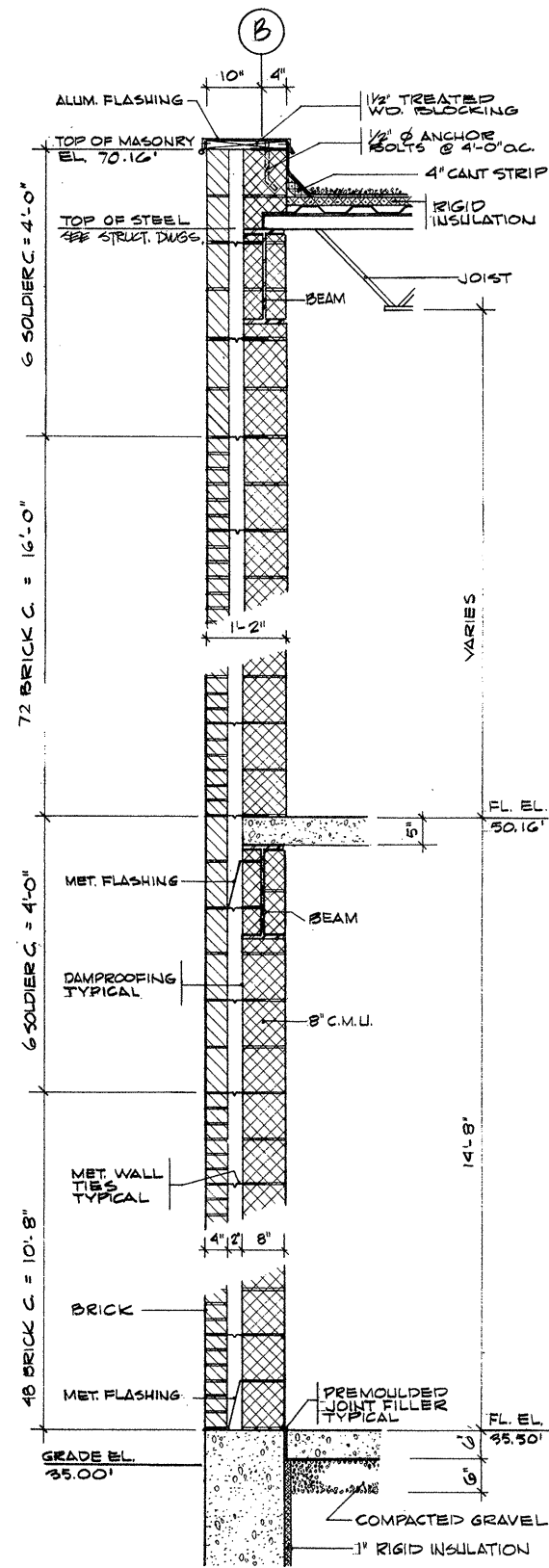
CE MAGUIRE, INC.
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Charles G. Perry
 CITY OF TAUNTON

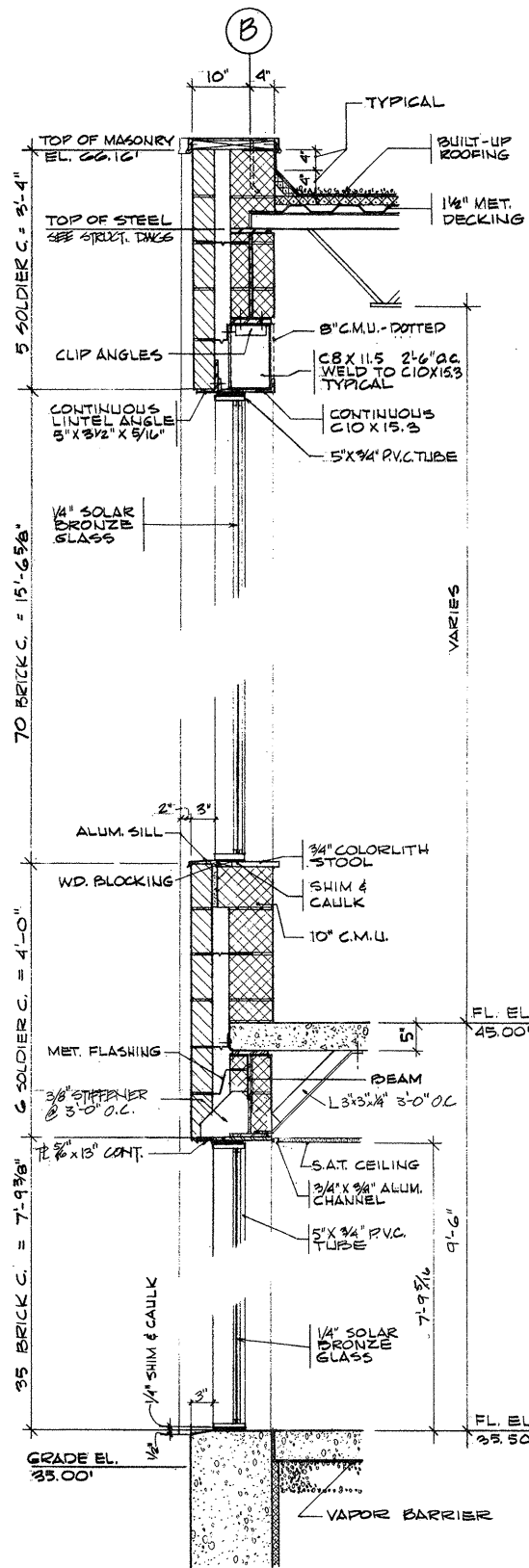
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING

ELEVATIONS

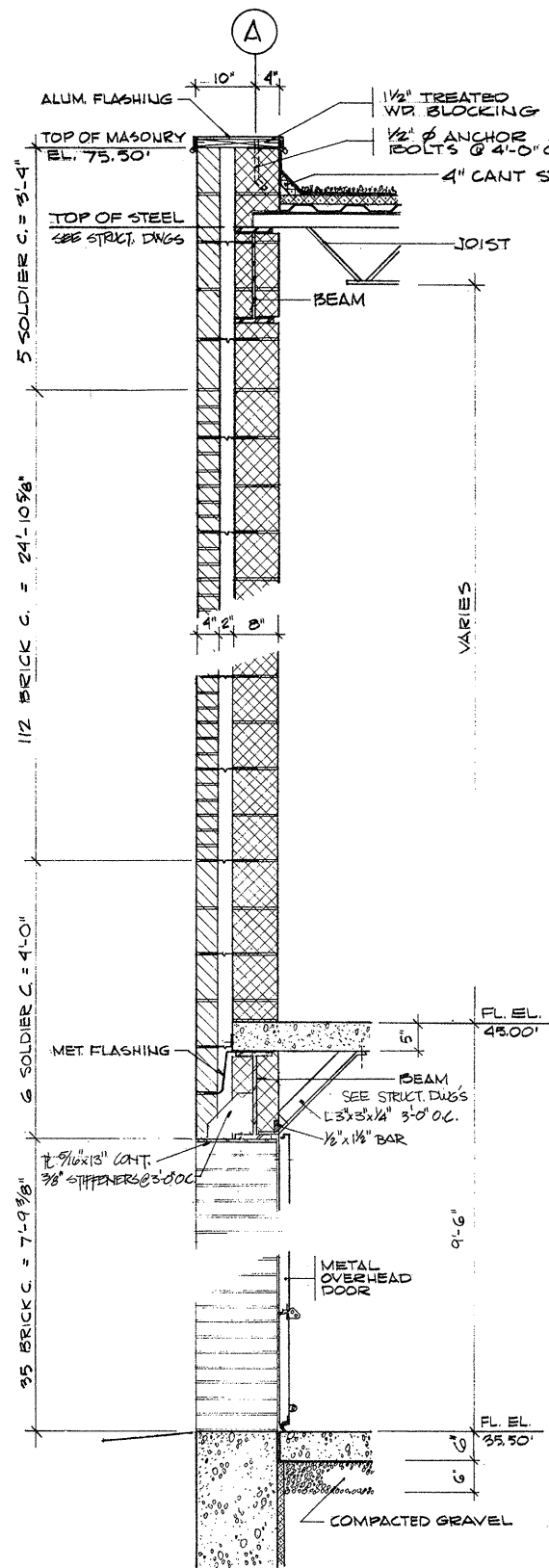
SCALE
 1/8" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
A-17



SECTION A
A-18

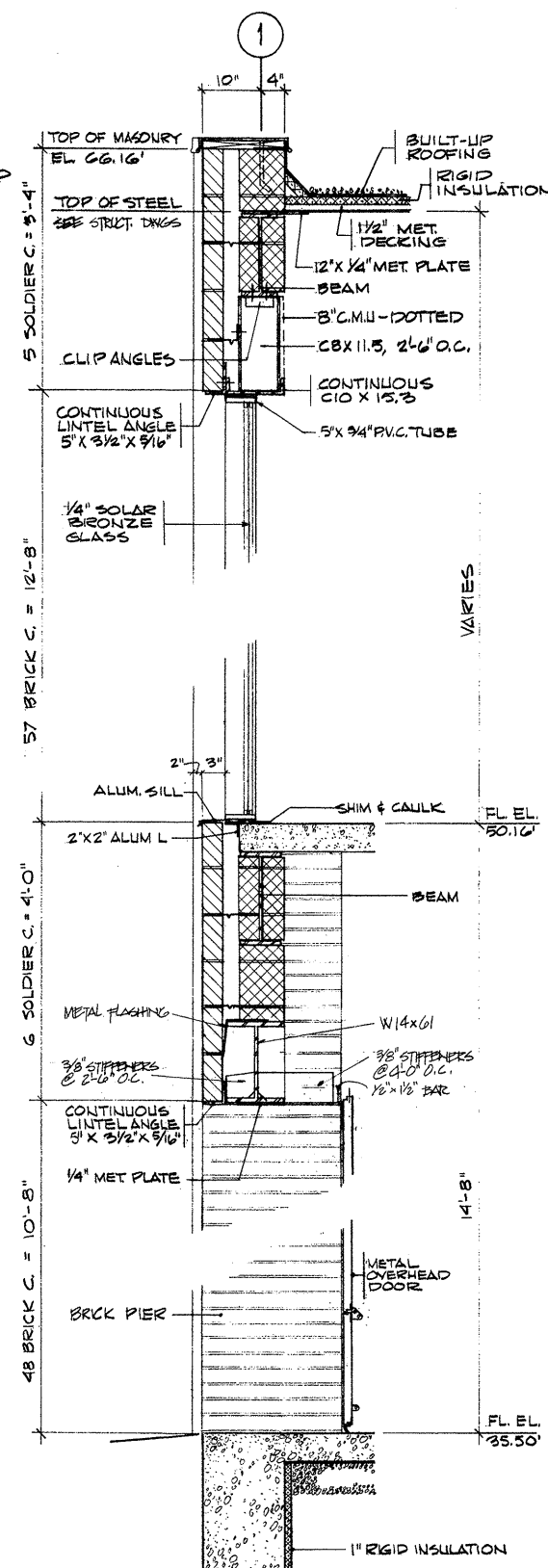


SECTION B
A-18

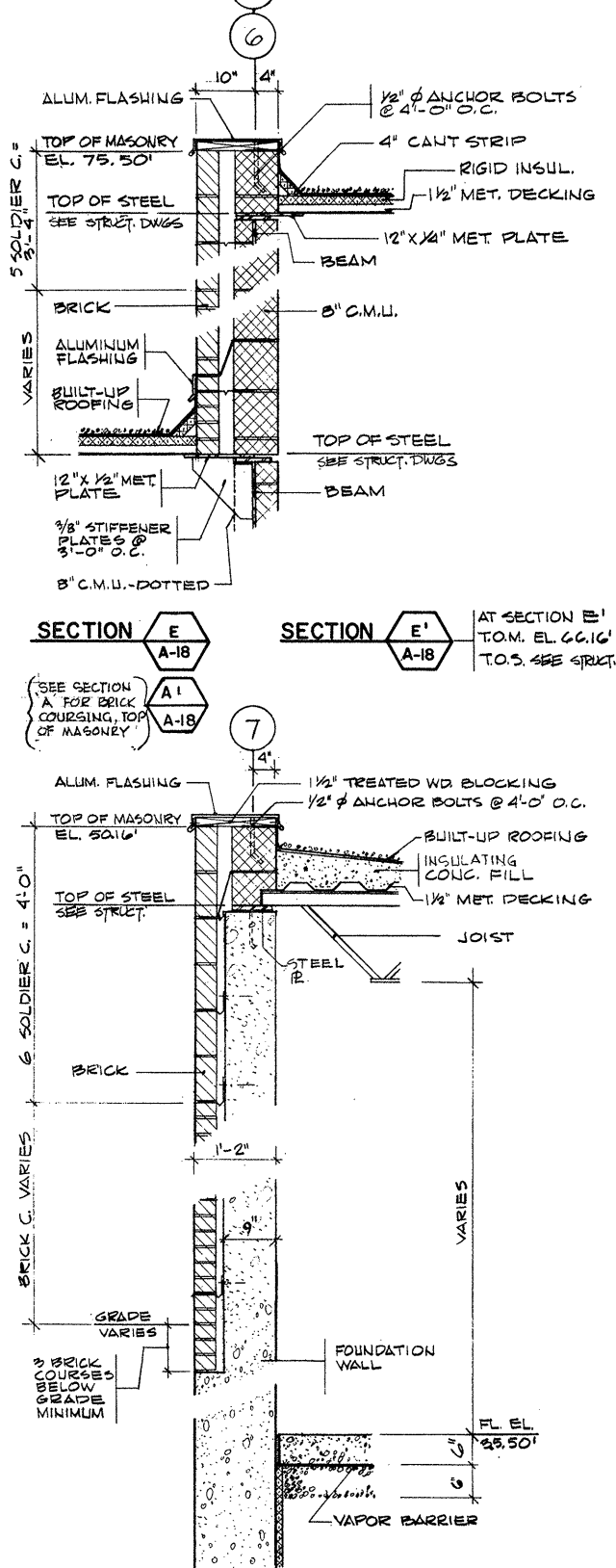


SECTION C
A-18

3/4" = 1'-0"



SECTION D
A-18



SECTION E
A-18

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: D. OLIVEIRA DESIGNED: J. CIRILLO
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 DATE: JULY, 1974
CE MAGUIRE, INC.
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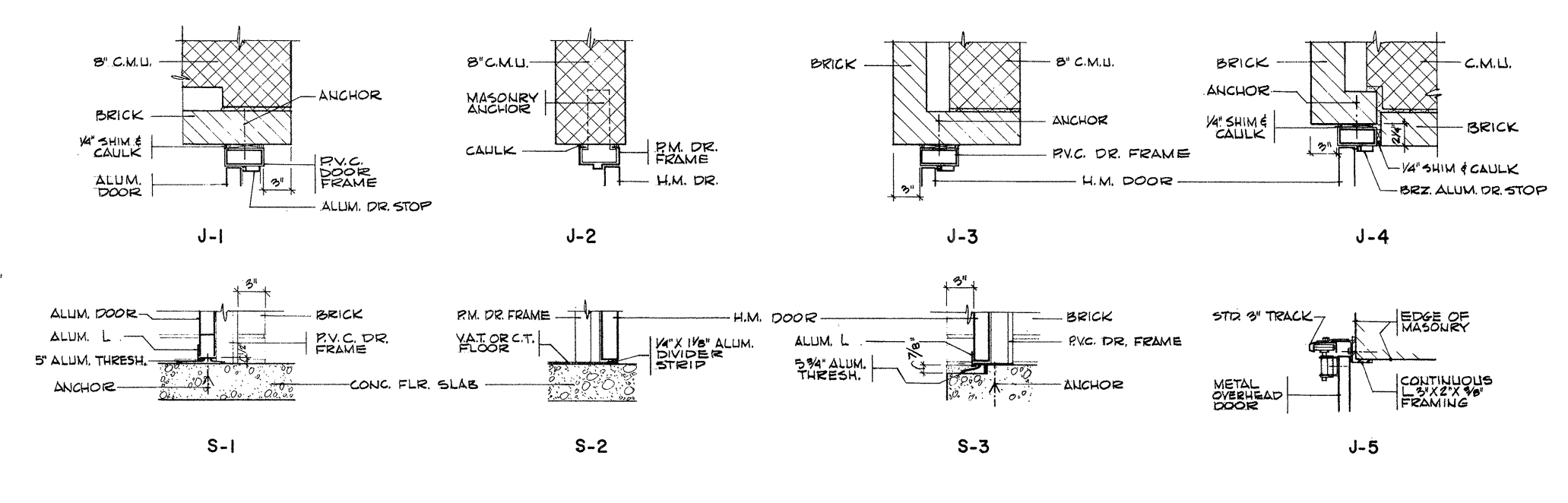
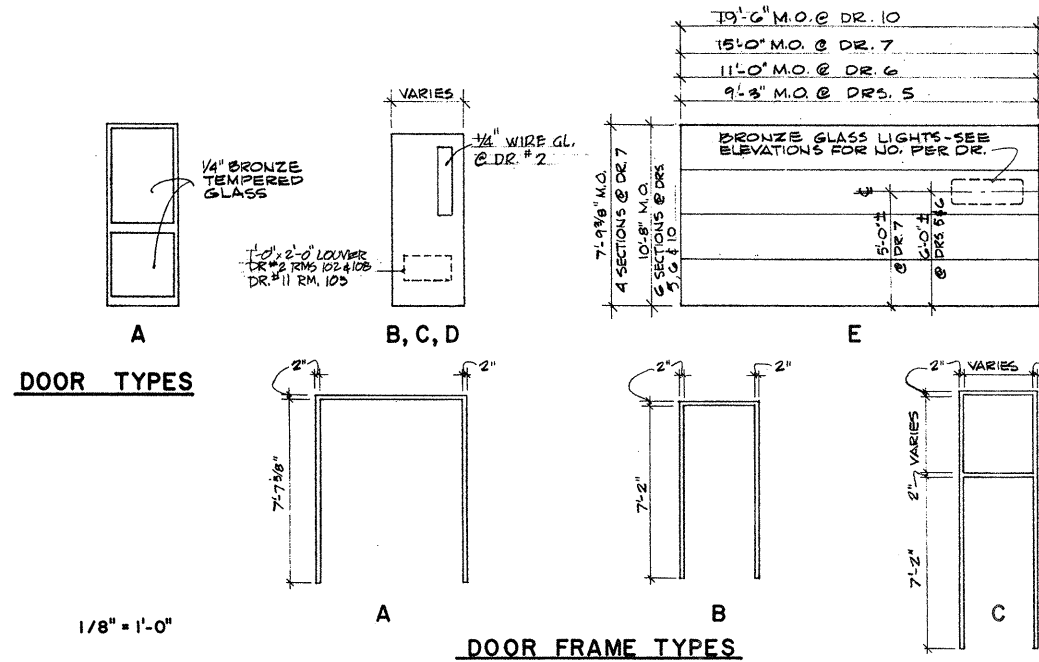
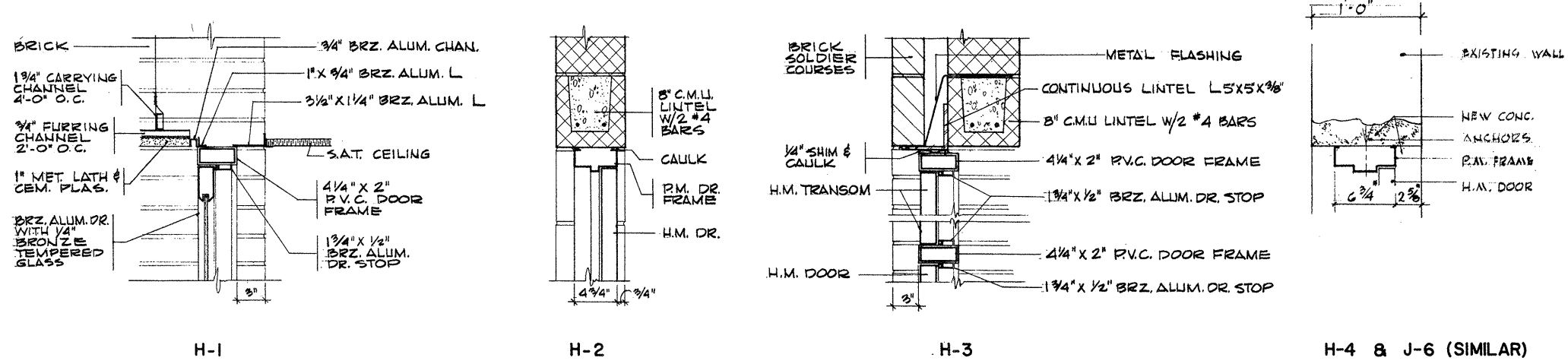
APPROVED
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 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
WALL SECTIONS

SCALE
 3/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
A-18

DOOR SCHEDULE

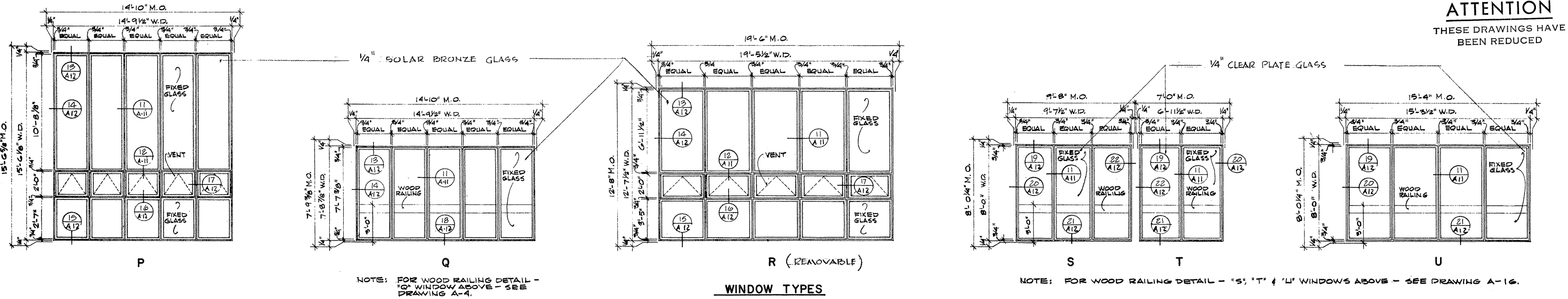
NO.	DOORS			FRAMES		DETAILS			REMARKS
	SIZE	TYPE	MAT.	TYPE	MAT.	HEAD	JAMB	SILL	
1	PR. 3'-0" X 7'-7 3/8" X 1 3/4"	A	ALUM.	A	P.V.C.	H-1	J-1	S-1	
2 & 2A	3'-0" X 7'-2" X 1 3/4"	B	H.M.	B	P.M.	H-2	J-2	S-2	(*) AT VAT & C.T. FLOORS ONLY
3	PR. 2'-6" X 7'-2" X 1 3/4"	C	H.M.	C	P.V.C.	H-3	J-3	S-3	WITH TRANSOM
4	2'-8" X 7'-2" X 1 3/4"	D	H.M.	C	P.V.C.	H-3	J-4	S-3	WITH TRANSOM
5	M.O. 10'-8" H X 9'-3" W	E	MET.	—	—	*	J-5	*	(*) SEE WALL SECTION D
6	M.O. 10'-8" H X 11'-0" W	E	MET.	—	—	*	J-5	*	(*) SEE WALL SECTION D
7	M.O. 7'-9 3/8" H X 15'-0" W	E	MET.	—	—	*	J-5	*	(*) SEE WALL SECTION C
8	3'-0" X 7'-2" X 1 3/4"	B	H.M.	C	P.V.C.	H-3	J-3	S-3	WITH TRANSOM
9	3'-0" X 7'-2" X 1 3/4"	B	H.M.	B	P.M.	H-2	J-2	S-2	B LABEL DOOR & FRAME
10	10'-8" X 19'-6" M.O.	E	MET.	—	—	*	J-5	*	(*) SEE WALL SECTION D
11	3'-0" X 7'-2" X 1 3/4"	B	H.M.	B	P.M.	H-4	J-6	—	LOUVER



DOOR HEAD, JAMB AND SILL DETAILS

1 1/2" = 1'-0"

FOR WINDOW DETAILS SEE DWG. A-11 & A-12



ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



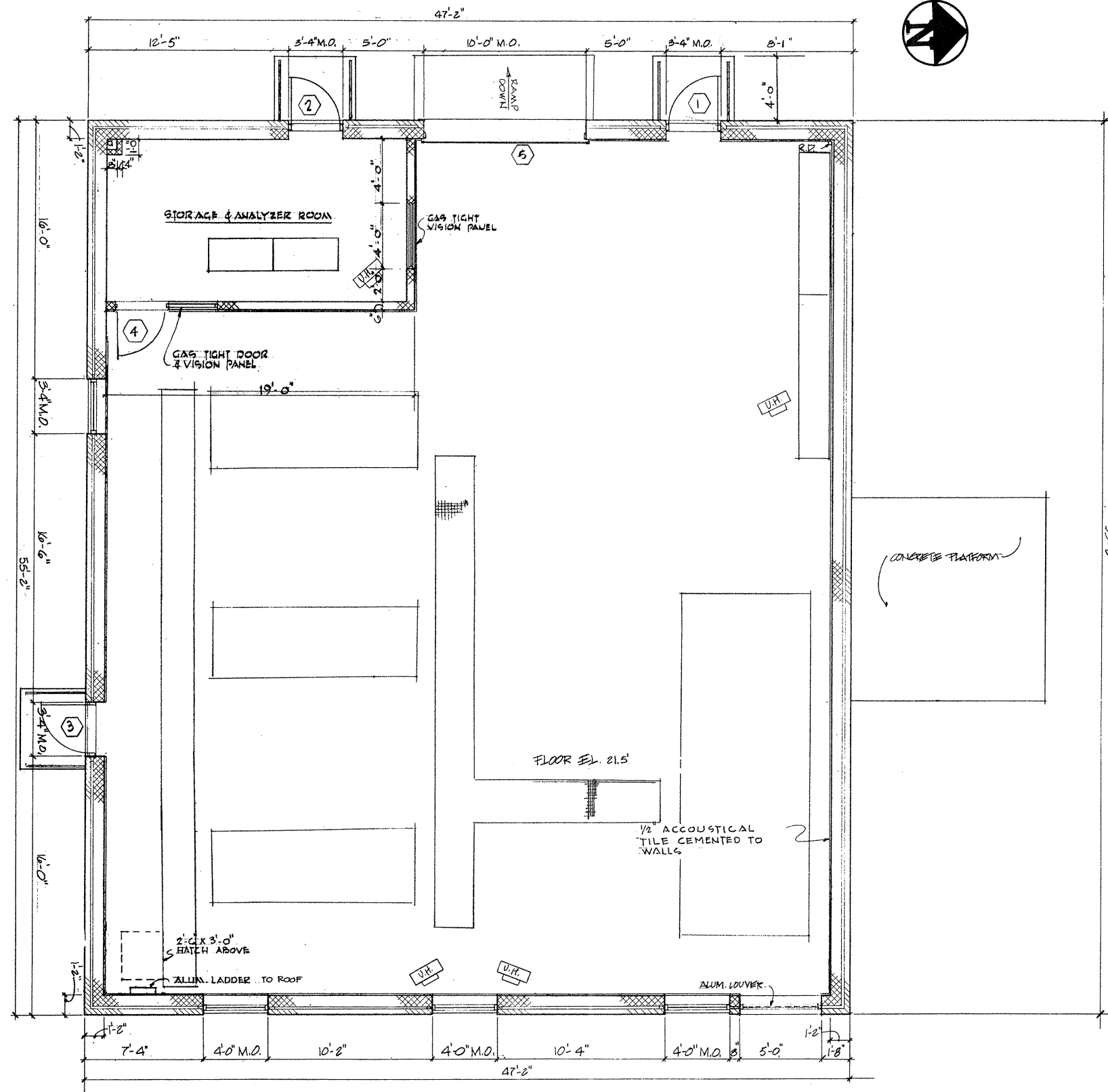
DRAWN: D. OLIVEIRA DESIGNED: J. CIRILLO
 CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED

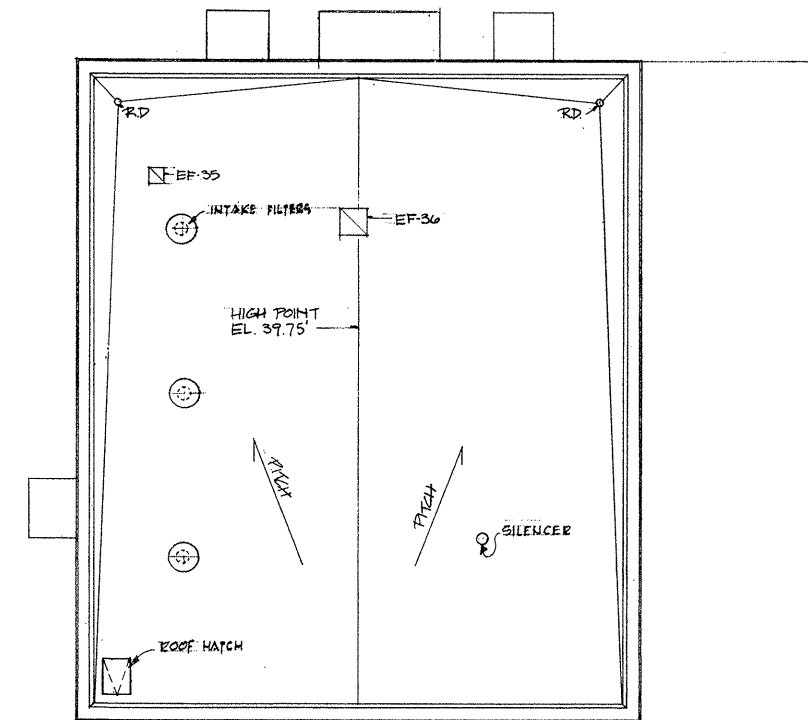
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
DOOR SCHEDULE & DETAILS & WINDOW ELEV.

SCALE AS NOTED
 CEM NO. 1981
 DRAWING NO. **A-19**



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



ROOF PLAN
1/8" = 1'-0"

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: L. MAZZUCHELLI DESIGNED: F. CATALANO
 CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

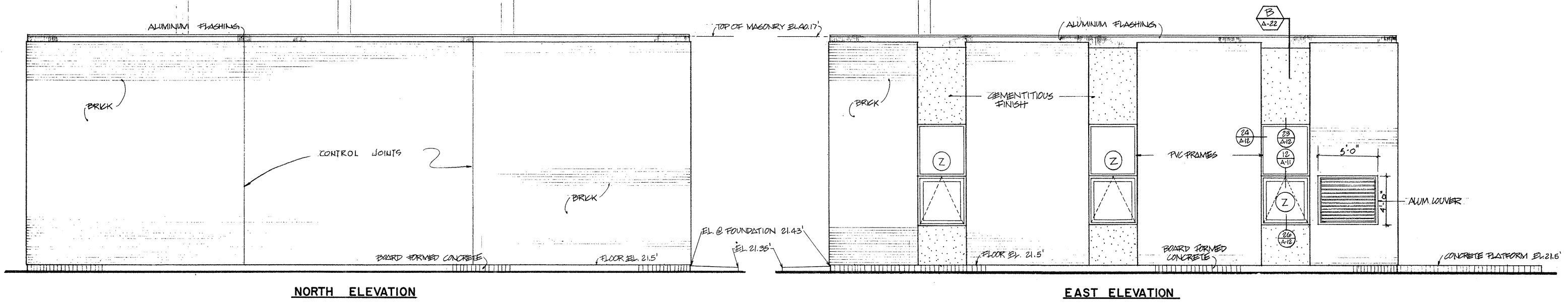
APPROVED
Charles G. King
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OXYGEN GENERATION BUILDING
FLOOR AND ROOF PLANS

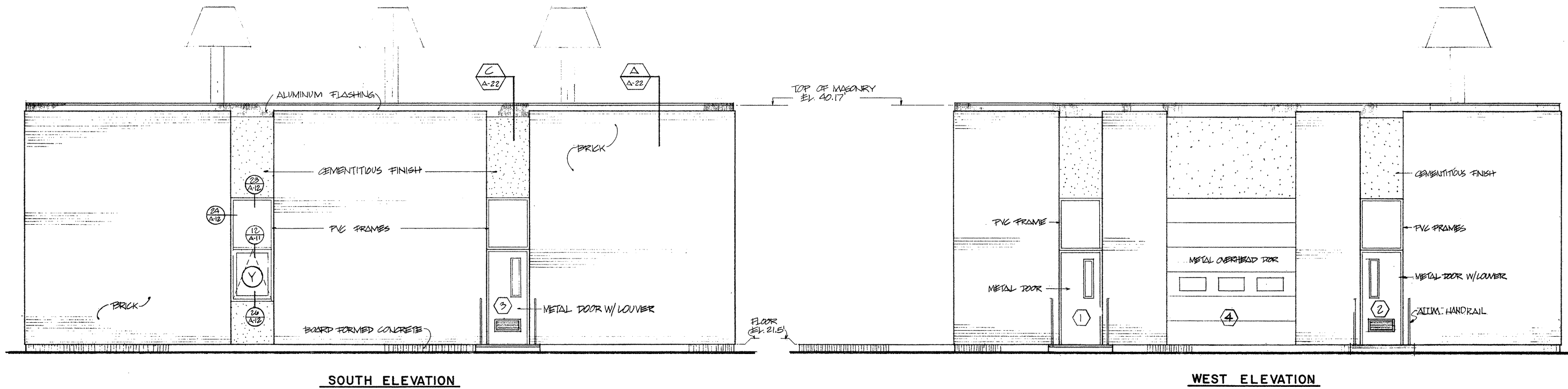
SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
A-20

INTAKE FILTERS SEE EQUIPMENT DRAWINGS



NORTH ELEVATION

EAST ELEVATION



SOUTH ELEVATION

WEST ELEVATION

1/4" = 1'-0"

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: L. MAZ ZUCHELLI DESIGNED: F. CATALANO
 CHECKED: J. MERCURIO APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OXYGEN GENERATION BUILDING
ELEVATIONS

SCALE
 1/4" = 1'-0"

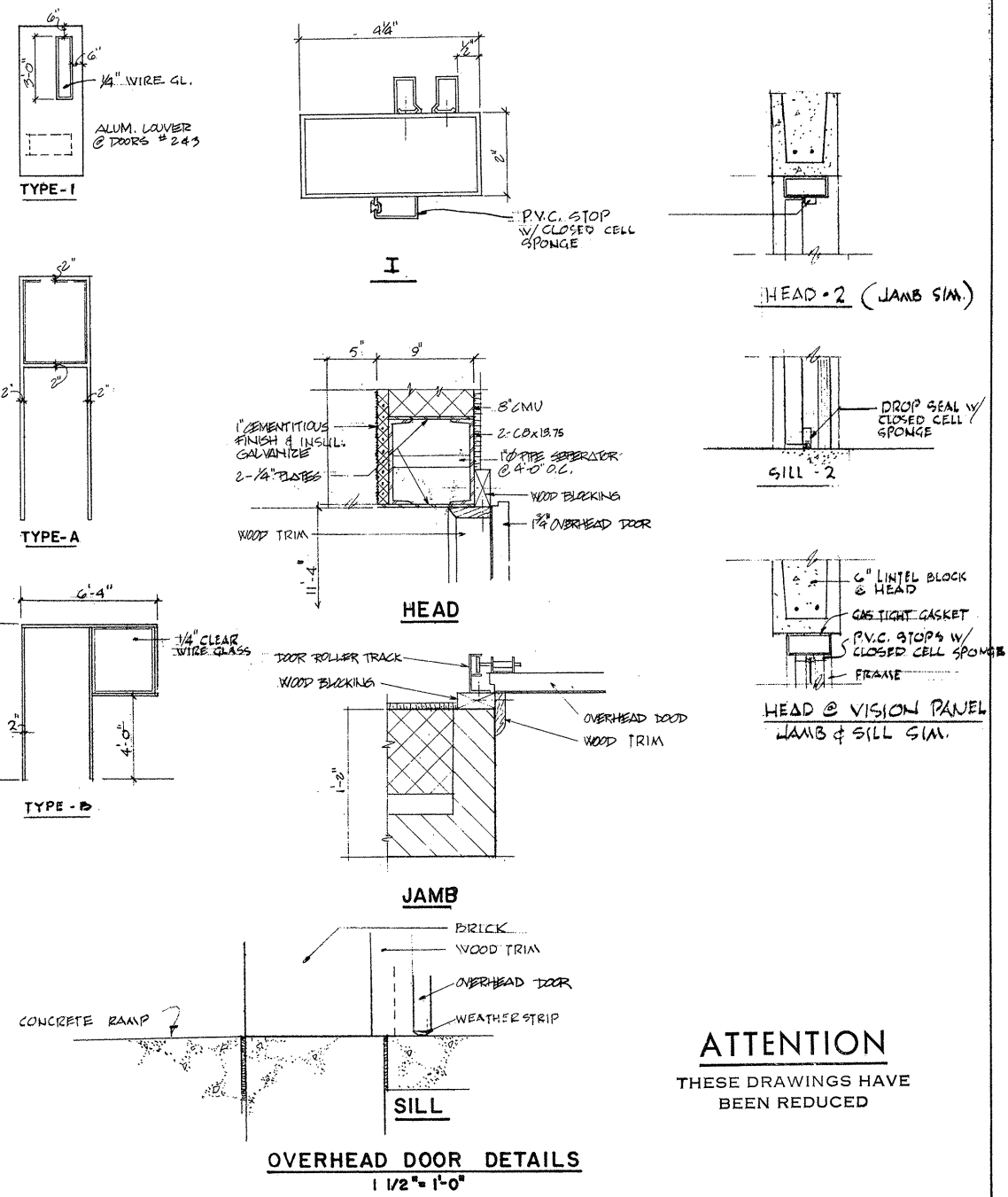
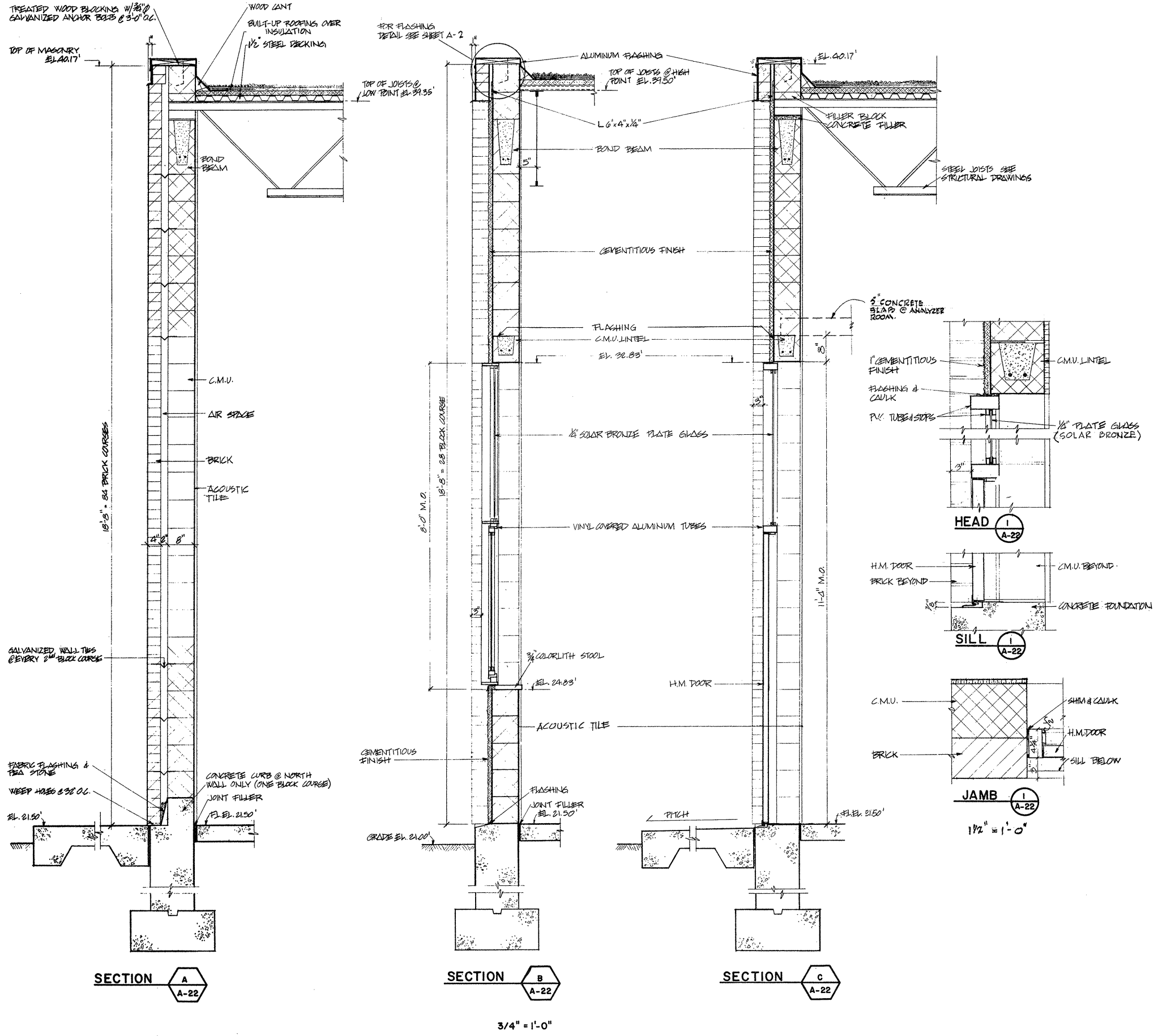
CEM NO. 1981

DRAWING NO.
A-21

ROOM FINISH SCHEDULE											
ROOM	FLOOR	BASE		WALLS		CEILING		REMARKS			
NO	NAME	MAT	FIN	MAT	FIN	MAT	FIN	HGT.			
1	EQUIP. RM	CONC.	3.5H.	C.M.U.	---	C.M.U.	---	SAT	FAC	VARIABLE	PAINT EXPOSED STRUCTURE
2	ANALY. RM	CONC.	3.5H.	C.M.U.	CL. PT.	C.M.U.	CL. PT.	---	---	---	---

NOTE: WALLS OF EQUIPMENT ROOM TO BE COVERED W/ 1/2" ACOUSTICAL TILE FROM FLOOR TO ROOF DECK.

DOOR AND FRAME SCHEDULE											
DOORS			FRAMES			DETAILS			REMARKS		
MARK	SIZE	TYPE	MAT.	PROFILE	TYPE	MAT.	HEAD	JAMB	SILL		
1	3'-0" x 7'-2" x 1 3/4"	1	H.M.	I	A	P.V.C.	1	1	1	WEATHERSTRIP	
2	3'-0" x 7'-2" x 1 3/4"	1	H.M.	I	A	P.V.C.	1	1	1	" # LOUVER	
3	3'-0" x 7'-2" x 1 3/4"	1	H.M.	I	A	P.V.C.	1	1	1	" # LOUVER	
4	3'-0" x 7'-2" x 1 3/4"	1	H.M.	I	B	P.V.C.	2	2	2	GAS TIGHT-W/ VISION PANEL	
5	10'-0" x 11'-4" M.O.	SEE	DETAILS	THIS	SEE	THIS	MOTOR OPERATED				



ATTENTION
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DRAWN: L. MAZZUCHELLI DESIGNED: F. CATALANO
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Charles G. Long
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CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

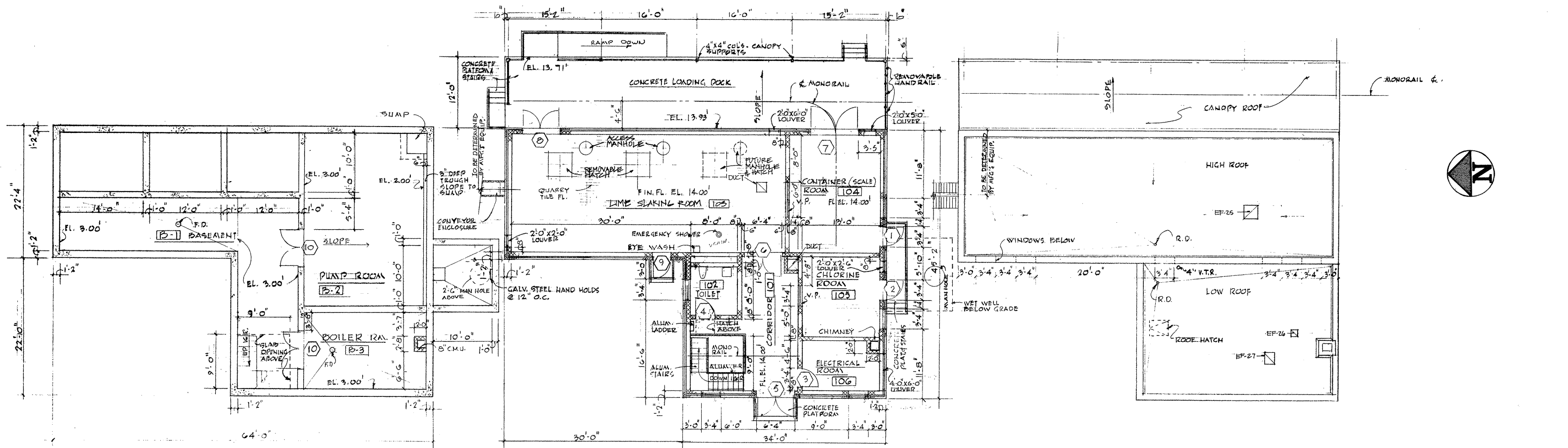
OXYGEN GENERATION BUILDING

**WALL SECTIONS, ROOM FINISH SCHEDULE
 DOOR & FRAME SCHEDULE, ELEVATIONS & DETS.**

SCALE
 AS NOTED

CEM NO. 1981

DRAWING NO.
A-22

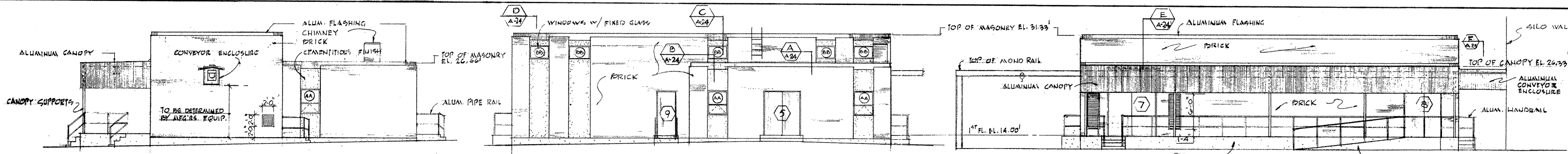


BASEMENT PLAN

FIRST FLOOR PLAN

ROOF PLAN

1/8" = 1'-0"

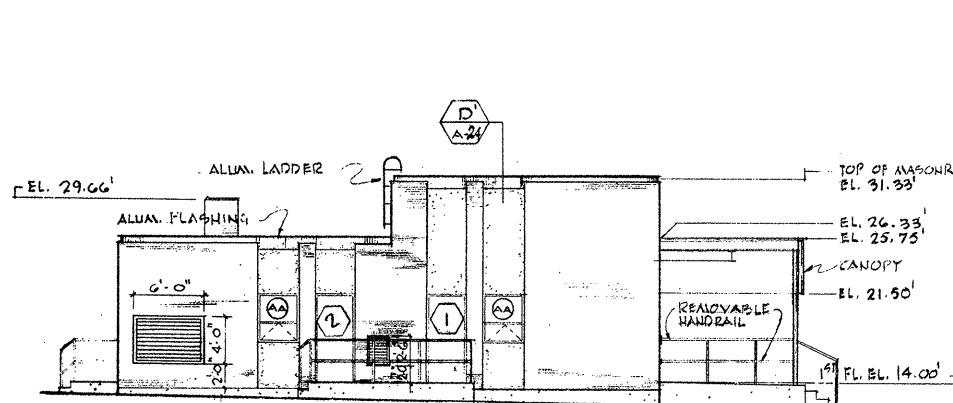


NORTH ELEVATION

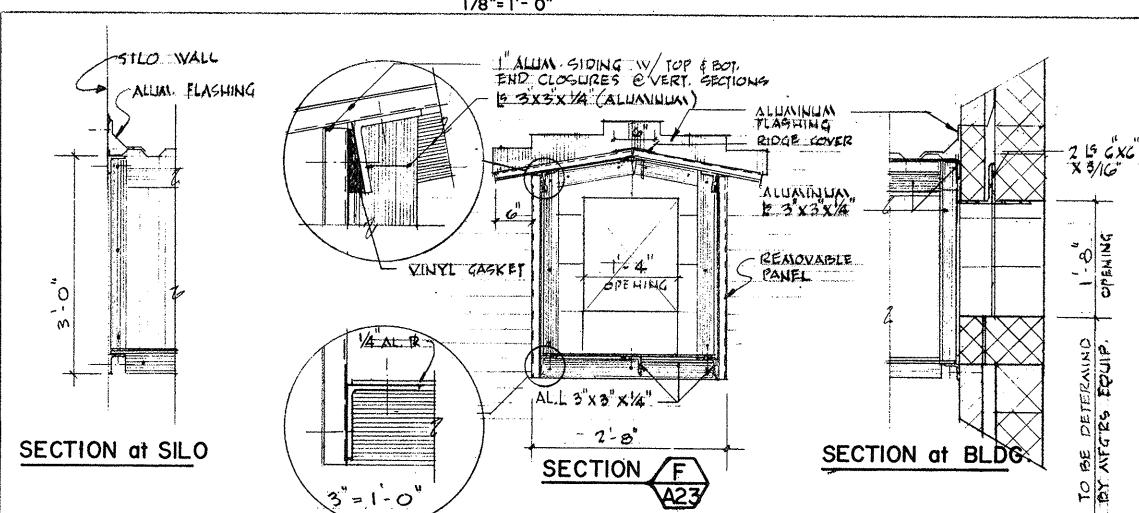
WEST ELEVATION

EAST ELEVATION

1/8" = 1'-0"



SOUTH ELEVATION

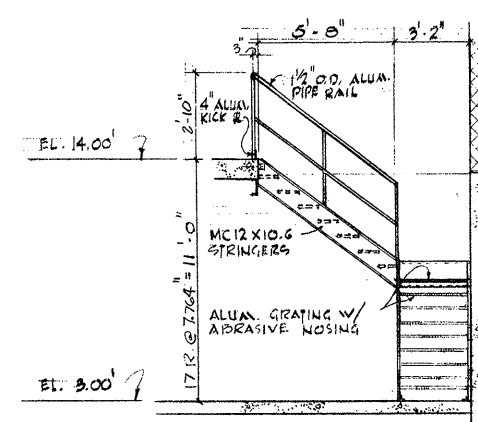


SECTION at SILO

SECTION F

SECTION at BLDG

CONVEYOR ENCLOSURE DETAILS



STAIRS - INTERIOR

1/4" = 1'-0"

NOTE:
SEE DWG A-15
FOR DETAILS

ATTENTION
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BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. MERCURIO DESIGNED: J. MERCURIO
 CHECKED: F. CATALANO APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

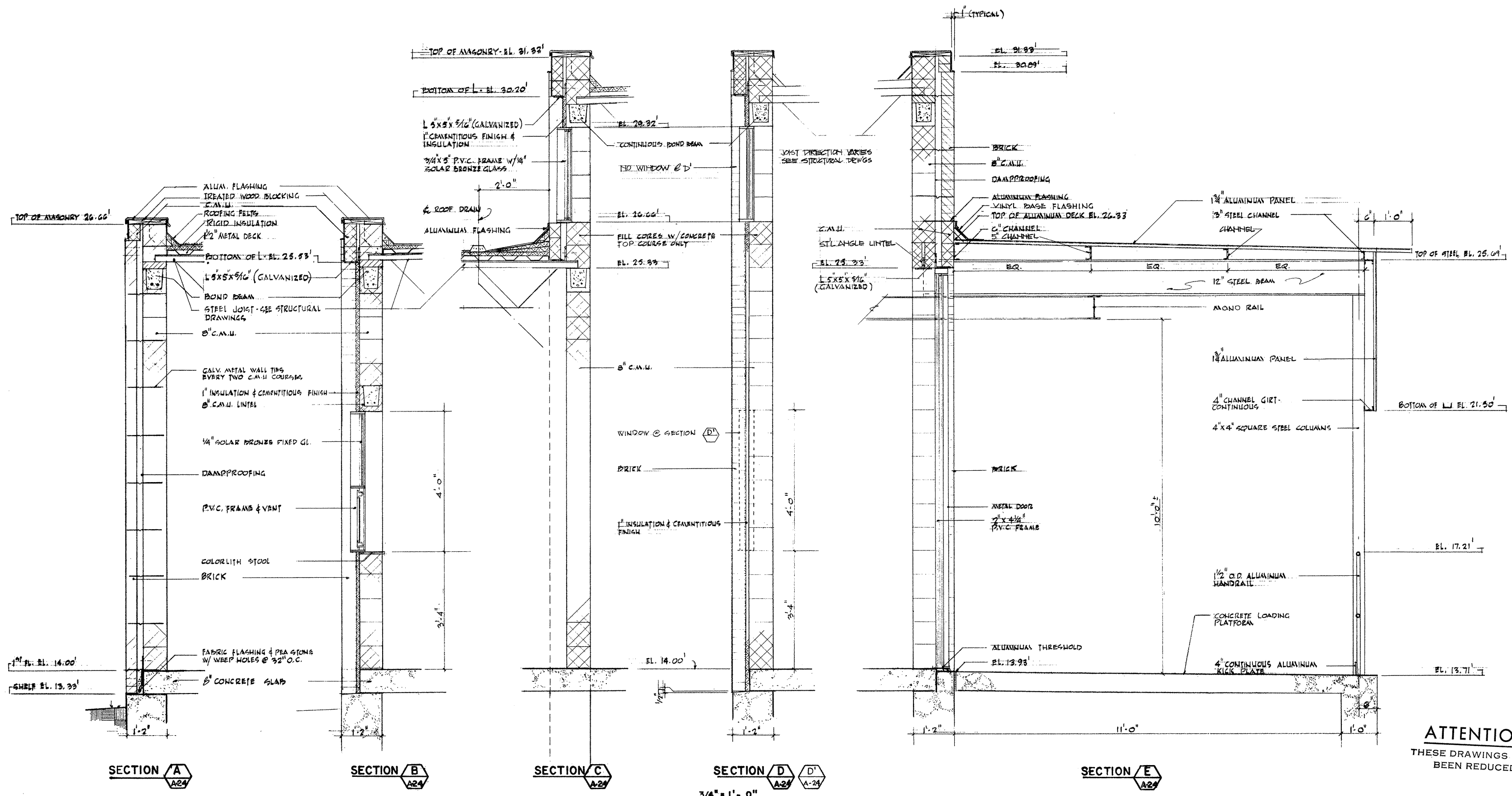
CHEMICALS HANDLING BUILDING

PLANS & ELEVATIONS

SCALE
 1/8" = 1'-0"

CEM NO. 1981

DRAWING NO.
A-23



ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. MERCURIO DESIGNED: J. MERCURIO
 CHECKED: F. CATALANO APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
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Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

CHEMICALS HANDLING BUILDING

WALL SECTIONS

SCALE
 AS NOTED

CEM NO. 1981

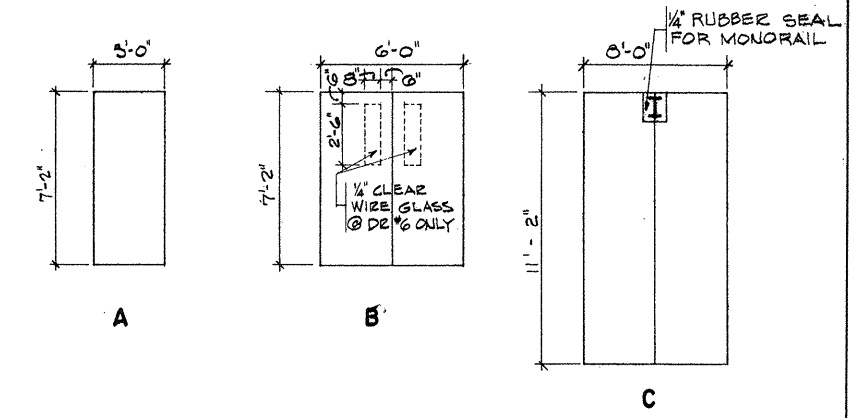
DRAWING NO.
A-24

ROOM FINISH SCHEDULE

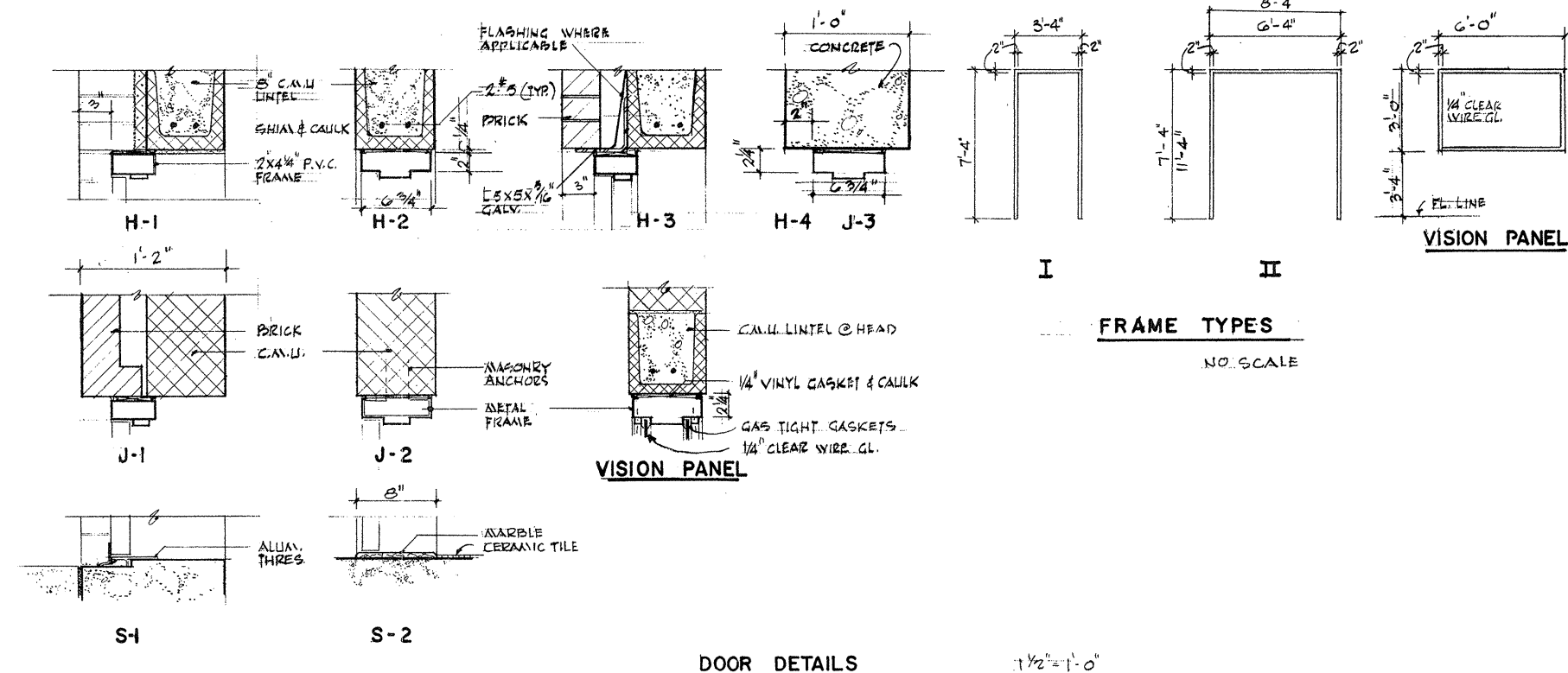
ROOM#	ROOM NAME	FLOOR		BASE		WALLS		CEILING			REMARKS
		MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	HGT.	
B-1	BASEMENT	CONC.	S&H	---	---	CONC.	GLAZE PAINT	CONC.	GLAZE PAINT	11'-0"	
B-2	PUMP ROOM	CONC.	S&H	---	---	CONC.	GLAZE PAINT	CONC.	GLAZE PAINT	11'-0"	
B-3	ROLLER ROOM	CONC.	S&H	---	---	CONC.	GLAZE PAINT	CONC.	GLAZE PAINT	11'-0"	
101	CORRIDOR	CONC.	S&H	C.M.U.	PAINT	C.M.U.	GLAZE PAINT	EXPD STR.	PAINT	VARIES	
102	TOILET	C.T.	FAC.	"	GLAZE PAINT	"	GLAZE PAINT	CEM. PLAS.	"	10'-0"	MARBLE THRESHOLD
103	LIME SLAKING RM.	Q.T.	FAC.	Q.T.	FAC.	"	"	EXPD STR.	"	VARIES	* 6" COVE BASE
104	CONTAINER ROOM	CONC.	S&H	C.M.U.	GLAZE PAINT	C.M.U.	GLAZE PAINT	"	"	"	GAS TIGHT VISION PANEL
105	CHLORINE ROOM	"	"	"	"	"	"	"	"	"	"
106	ELECTRICAL ROOM	"	"	"	"	"	"	"	"	"	"

DOOR SCHEDULE

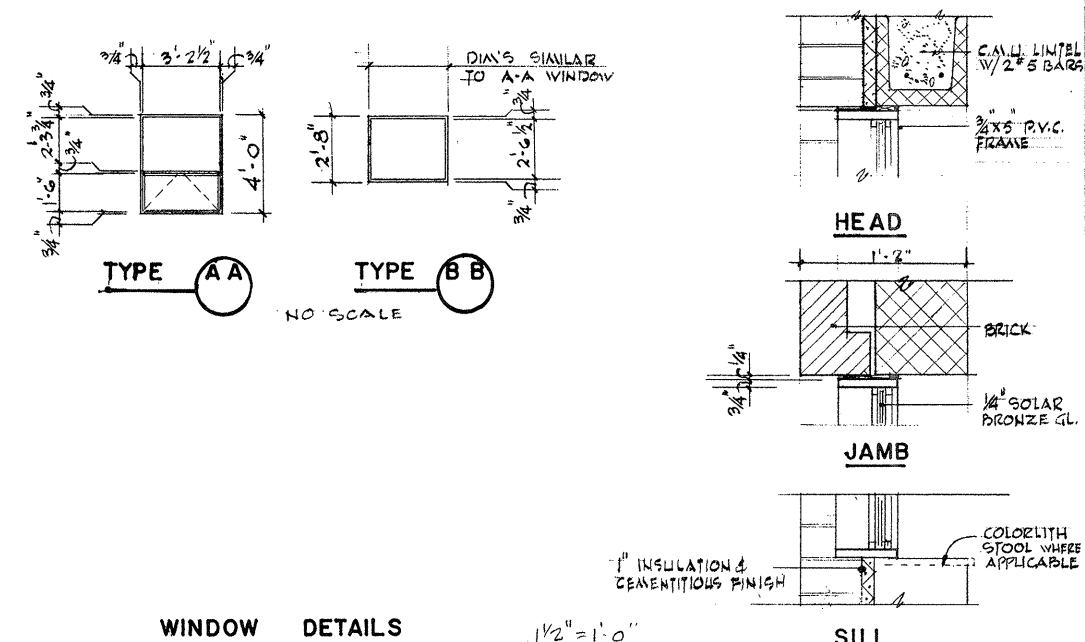
NO.	SIZE	TYPE	MAT.	FRAMES		DETAILS			REMARKS
				TYPE	MAT.	HEAD	JAMB	SILL	
1	3'-0" x 7'-2" x 1 3/4"	A	H.M.	I	P.V.C.	H-1	J-1	S-1	
2	3'-0" x 7'-2" x 1 3/4"	A	↑	I	P.V.C.	H-1	J-1	S-1	
3	3'-0" x 7'-2" x 1 3/4"	A	↑	I	P.M.	H-2	J-2	-	
4	3'-0" x 7'-2" x 1 3/4"	A	↑	I	P.M.	H-2	J-2	S-2	
5	PR. 3'-0" x 7'-2" x 1 3/4"	B	↑	II	P.V.C.	H-3	J-1	S-1	
6	PR. 3'-0" x 7'-2" x 1 3/4"	B	↑	II	P.M.	H-2	J-2	-	
7	PR. 4'-0" x 11'-2" x 1 3/4"	C	↑	II	P.V.C.	H-3	J-1	S-1	
8	PR. 3'-0" x 7'-2" x 1 3/4"	B	↑	II	P.V.C.	H-3	J-1	S-1	
9	3'-0" x 7'-2" x 1 3/4"	A	↓	I	P.V.C.	H-3	J-1	S-1	
10	PR. 3'-0" x 7'-2" x 1 3/4"	A	H.M.	II	P.M.	H-4	J-3	-	B LABEL @ BOILER RM.



DOOR TYPES



FRAME TYPES



WINDOW DETAILS

DOOR DETAILS

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

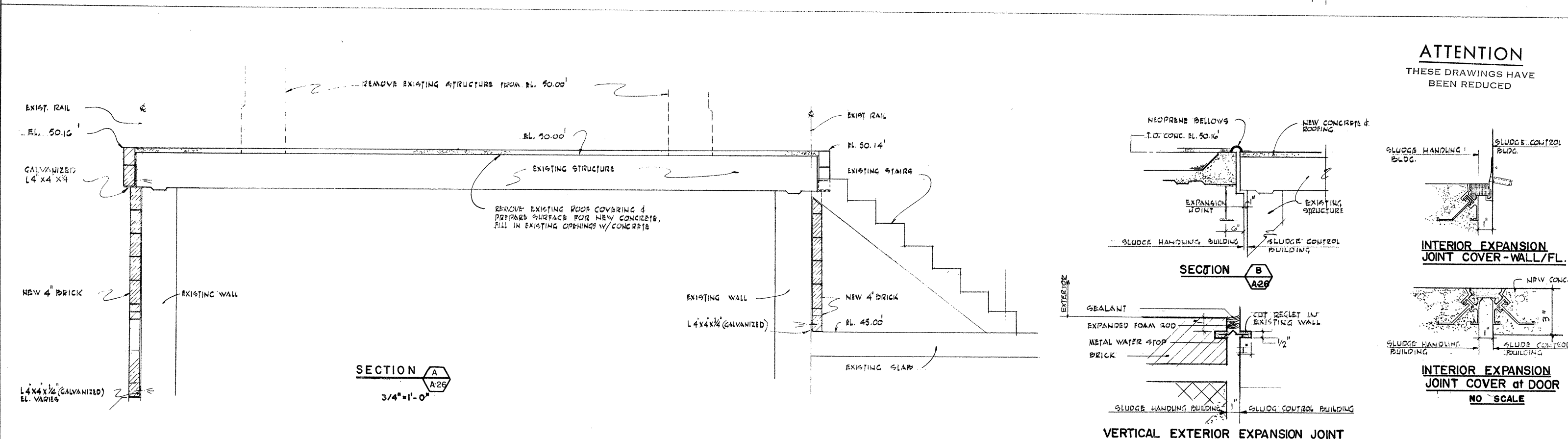
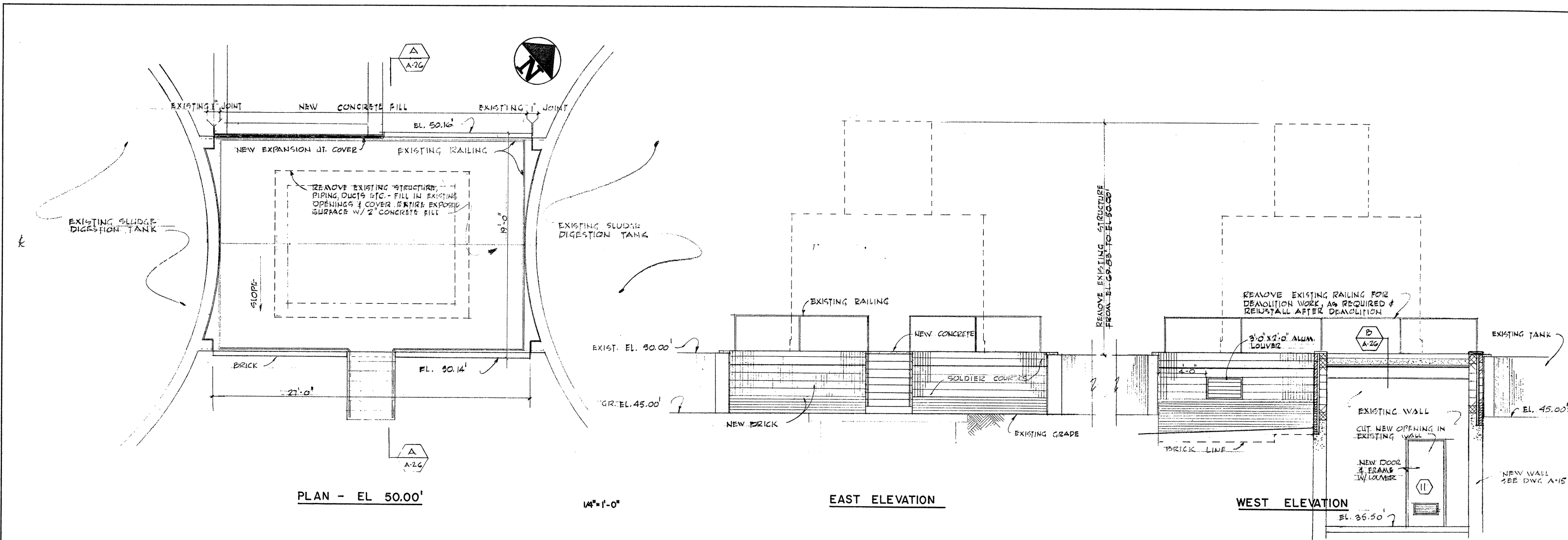


DRAWN: J. MERCURIO DESIGNED: J. MERCURIO
 CHECKED: F. CATALANO APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. King
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 CHEMICALS HANDLING BUILDING
FINISH SCHEDULES & DETAILS

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
A-25



ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

INTERIOR EXPANSION JOINT COVER - WALL/FL.

INTERIOR EXPANSION JOINT COVER at DOOR
NO SCALE

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: JOE MERCURIO DESIGNED: JOE MERCURIO
 CHECKED: F. CATALANO APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles E. Perry
 CITY OF TAUNTON

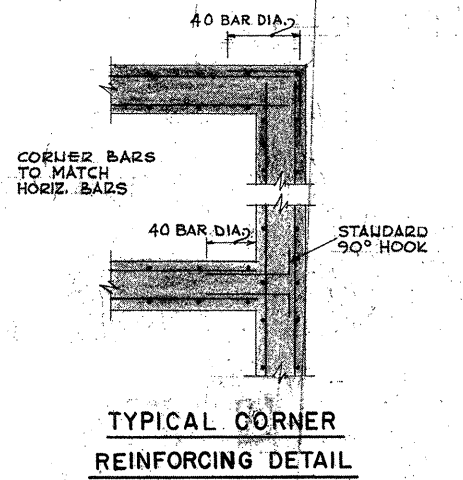
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

MODIFICATION TO EXIST. SLUDGE CONTROL BUILDING

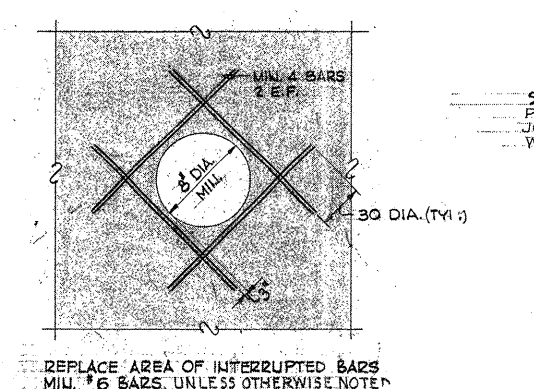
SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
A-26

GENERAL NOTES

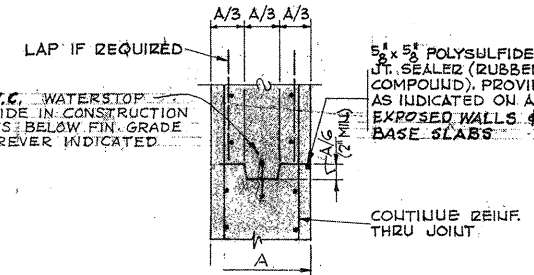
- Design Live Loads
- Snow-----30 p.s.f.
 - Offices-----100 p.s.f.
 - Storage and rooms with heavy equipment-----150 p.s.f. (or the weight of equipment whichever is greater)
 - Shower & Toilet Rooms-----60 p.s.f.
- II. Foundation & Walls
- Base slab and footings shall be placed on compacted gravel where shown in accordance with the applicable requirements of the specifications and as detailed.
 - Foundations and base slabs are designed for the following allowable bearing pressure:
Chemical handling building - 2,000 p.s.f.; pipe gallery, Primary Settling tank, chlorine contact chamber - 2,500 p.s.f.; First & second stage oxygen reactor, second stage settling tanks, sludge pumping station No. 2 - 3,000 p.s.f.; inlet works, first stage settling tanks, sludge pumping station #1, Sludge handling building, oxygen generation building - 4,000 p.s.f.
- III. Concrete
- Concrete shall have a minimum ultimate compressive strength of 4,000 p.s.i. at 28 days.
 - All concrete work shall conform to the latest building code requirements for reinforced concrete, ACI 318.
 - Reinforcing steel shall be A.S.T.M. A-615, Grade 40.
 - Welded wire fabric shall conform to A.S.T.M. A-185.
 - Concrete cover for reinforcing shall be as follows unless noted otherwise:
Footings, bottom of walls and foundation slab against concrete levelling slab - 3"
Concrete placed directly on ground - 4"
Outer face of walls exposed to earth or weather - 2"
Slabs & walls not exposed to weather or in contact with ground - 3/4"
Concrete beams & columns - 2"
Slabs-on-grade - 2" (from top)
 - Bar placing shall conform to concrete reinforcing steel institute's recommended practice for placing reinforcing bars.
 - Reinforcing bars shall be detailed in accordance with latest ACI Manual of Standard Practice for detailing reinforced concrete structures (ACI 315).
- IV. Structural Steel
- Structural steel shall be A.S.T.M. A-36. Fabrication and erection shall conform to the latest specifications for Design, Fabrication and Erection of Structural Steel for buildings as approved by American Institute of Steel Construction.
 - Open web steel joists shall conform to standard specifications of the Steel Joist Institute.
 - All tube columns shall be fabricated from A.S.T.M. A-36 steel and filled with 4,000 p.s.i. concrete.
- V. Steel Angle Lintels
- For all openings in interior and exterior walls, where other type of lintels are not called for, provide one lintel angle for each 4" of wall thickness as follows:
Spans up to 5'-0"-----L4 X 3 1/2 X 5/16 with 6" end bearings.
Spans 5'-1" to 7'-0"-----L5 X 3 1/2 X 5/16 with 8" end bearings.
Spans 7'-1" to 9'-0"-----L6 X 4 X 3/8-----with 10" end bearings.
- VI. Miscellaneous
- For typical exterior platforms section F2/S-31
 - Where concrete slabs are supported on concrete masonry, fill 2 courses underlying solid with concrete. Erect bearing walls before concrete slabs are poured.
 - Concrete masonry walls shall be installed in the first and second joint and immediately above lintels or below sills 8" apart and 16" apart elsewhere.
 - Below grade structures have been designed to resist hydrostatic uplift based upon total completion of these structures including placement of all backfill. The contractor shall be responsible to maintain groundwater levels below lowest required excavation until satisfactory completion of required construction.
 - Provide 8" x 1/2" x 0"-8" base plate with 2 - 1/2" x 1'-0" anchor bolts under all beams bearing on masonry unless noted otherwise. Whenever new concrete walls are poured against existing structure, existing concrete surface shall be thoroughly cleaned of all dirt and maintained wet during concrete placing operations.
 - Structural drawings shall be used in conjunction with equipment, architectural, heating and ventilating, plumbing and electrical drawings. These drawings shall be referred to for sizes and locations of openings, vents, pipes, inserts, boxes and hangers.



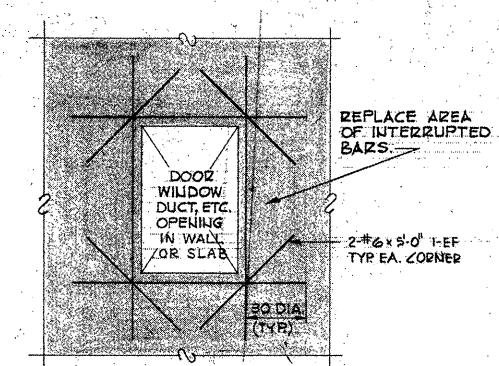
TYPICAL CORNER REINFORCING DETAIL



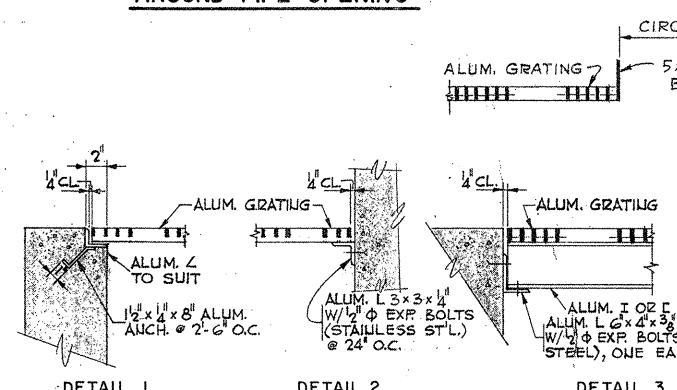
TYPICAL REINFORCING AROUND PIPE OPENING



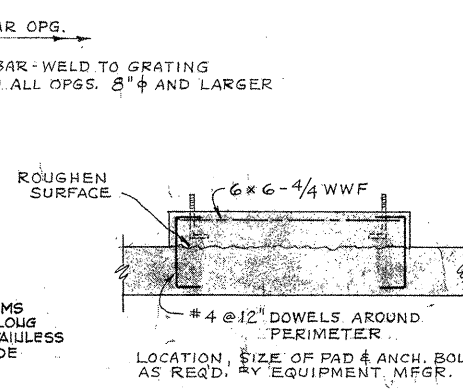
HORIZONTAL OR VERTICAL TYPICAL CONSTRUCTION JOINT DETAIL



TYPICAL REINFORCING DETAIL AT SLAB & WALL OPENING

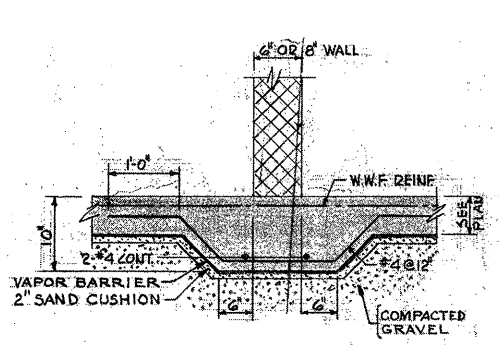


TYPICAL GRATING DETAIL

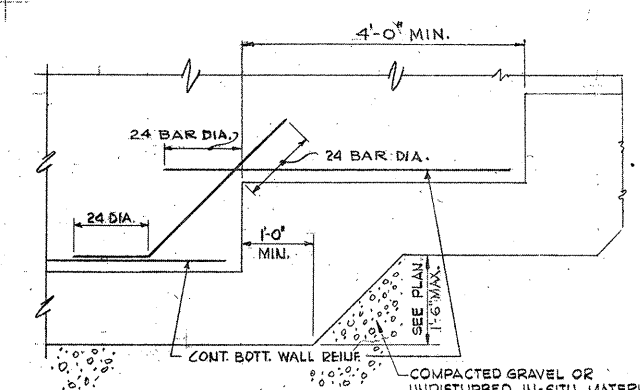


TYP. EQUIPMENT PAD DETAIL

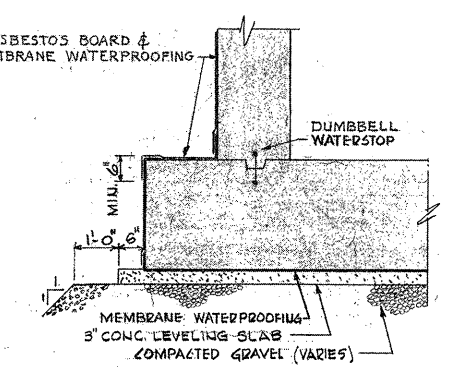
FOR PADS ON SLAB-ON-GRADE PROVIDE PREMOULDED JOINT FILLER AS PER TYP. EXP. JT. DETAIL THIS SHEET. REPLACE W.W.F. WITH REINF. #4 @ 12" TOP



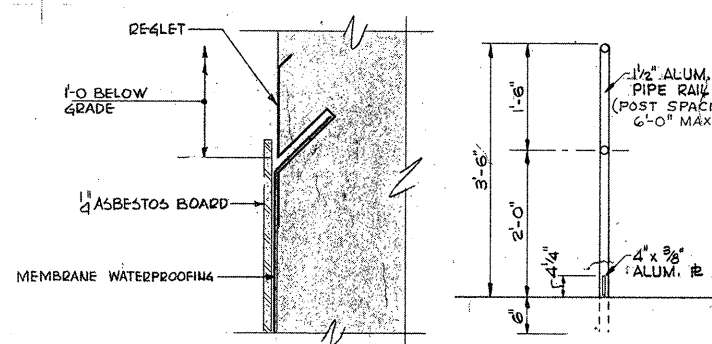
TYPICAL DETAIL AT NON BEARING PARTITIONS



TYP. STEPPED FOOTING DETAIL



TYPICAL WATERPROOFING DETAIL

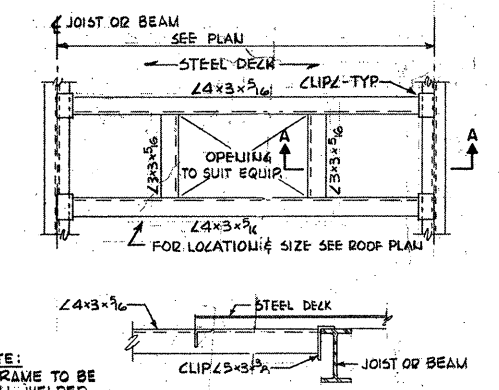


TYP. REGLET DETAIL

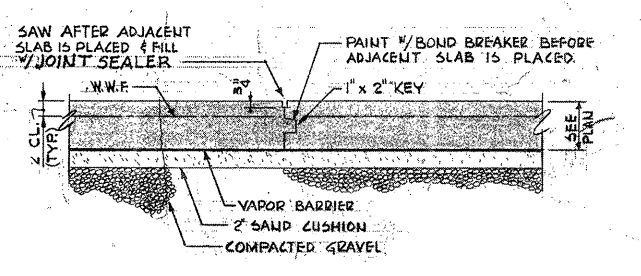
TYP. PIPE RAIL DETAIL

LEGEND

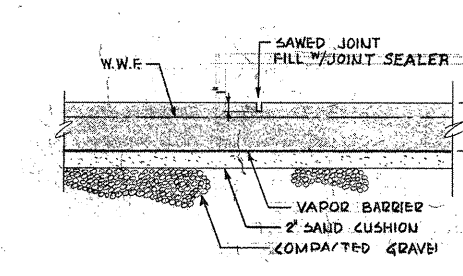
(15.00)	ELEVATION AT BOT. OF FOOTING	---	STEEL BEAMS
(15.00)	ELEVATION AT TOP OF CONCRETE	---	STEEL JOISTS
(A)	MARK OF CONC. PIERS & FOOTINGS, SEE SCHEDULES	---	BRIDGING
---	NEW WORK	---	EXIST. TO BE REMOVED



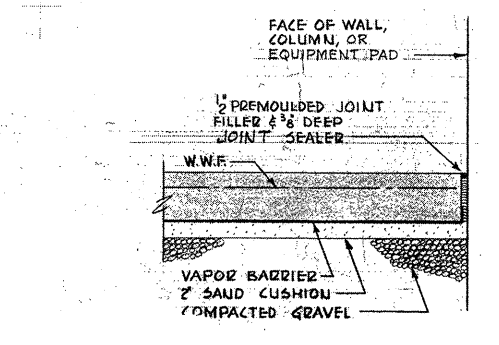
TYP. ROOF OPENING DETAIL



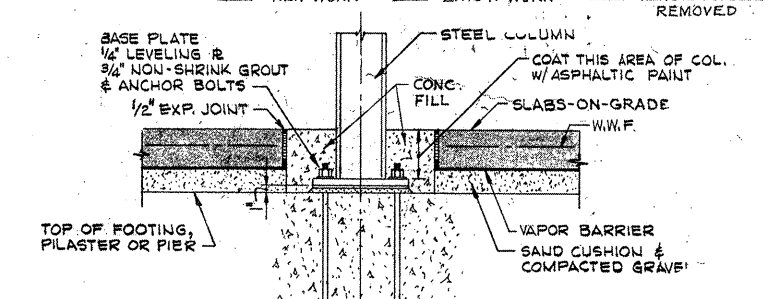
TYP. CONSTRUCTION JOINT SLABS - ON - GRADE



TYP. SAWED CONTROL JOINT DETAIL



TYP. EXPANSION JOINT DETAIL



TYPICAL COLUMN BASE DETAIL

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. MEDEIROS DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

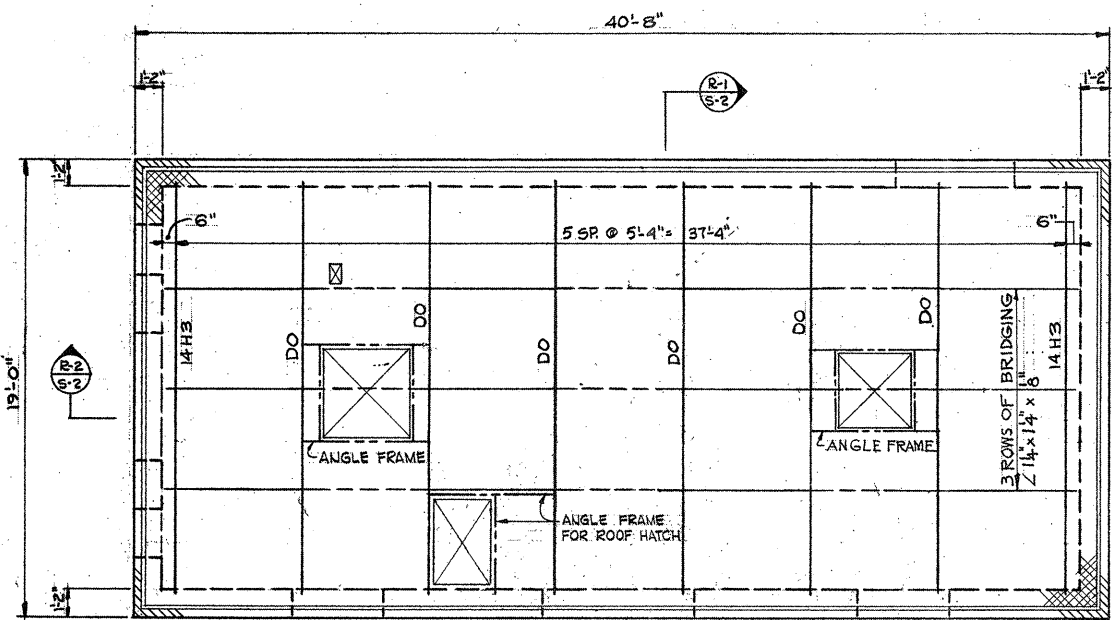
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

GENERAL
STRUCTURAL
 TYPICAL DETAILS & GENERAL NOTES

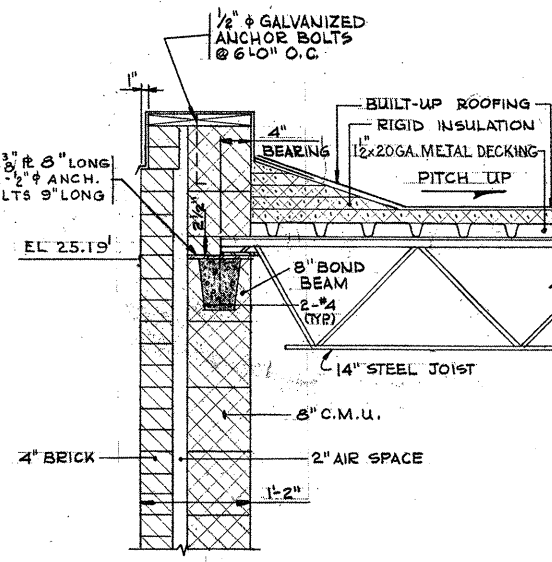
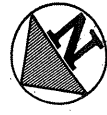
SCALE:
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CEM NO. 1981

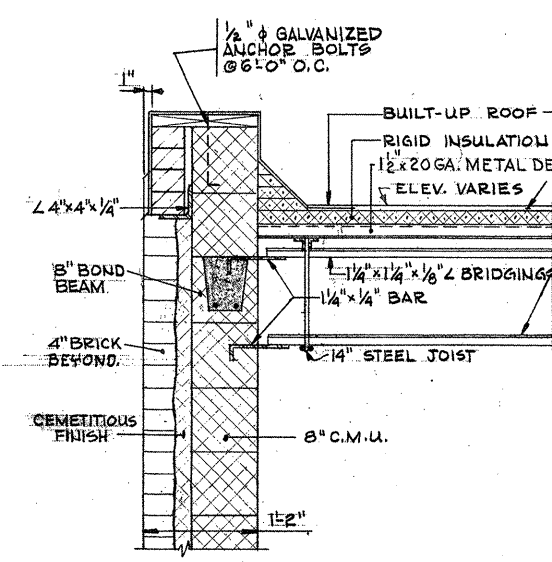
DRAWING NO.
S-1



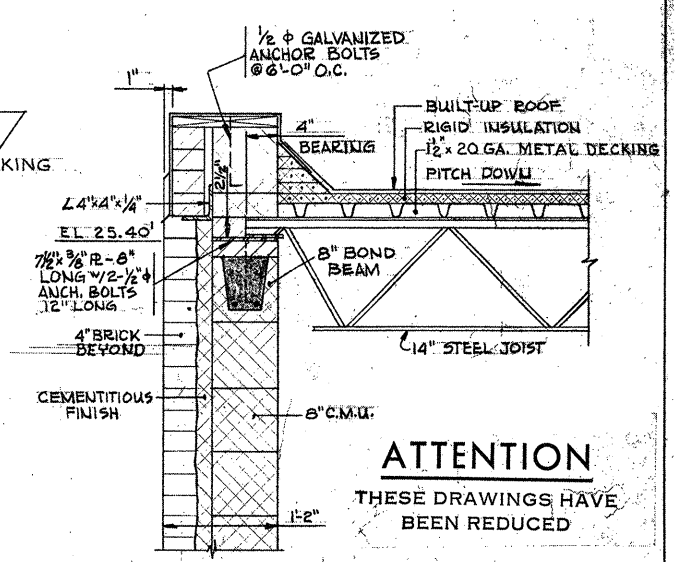
ROOF PLAN
SCALE: 1/4" = 1'-0"



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

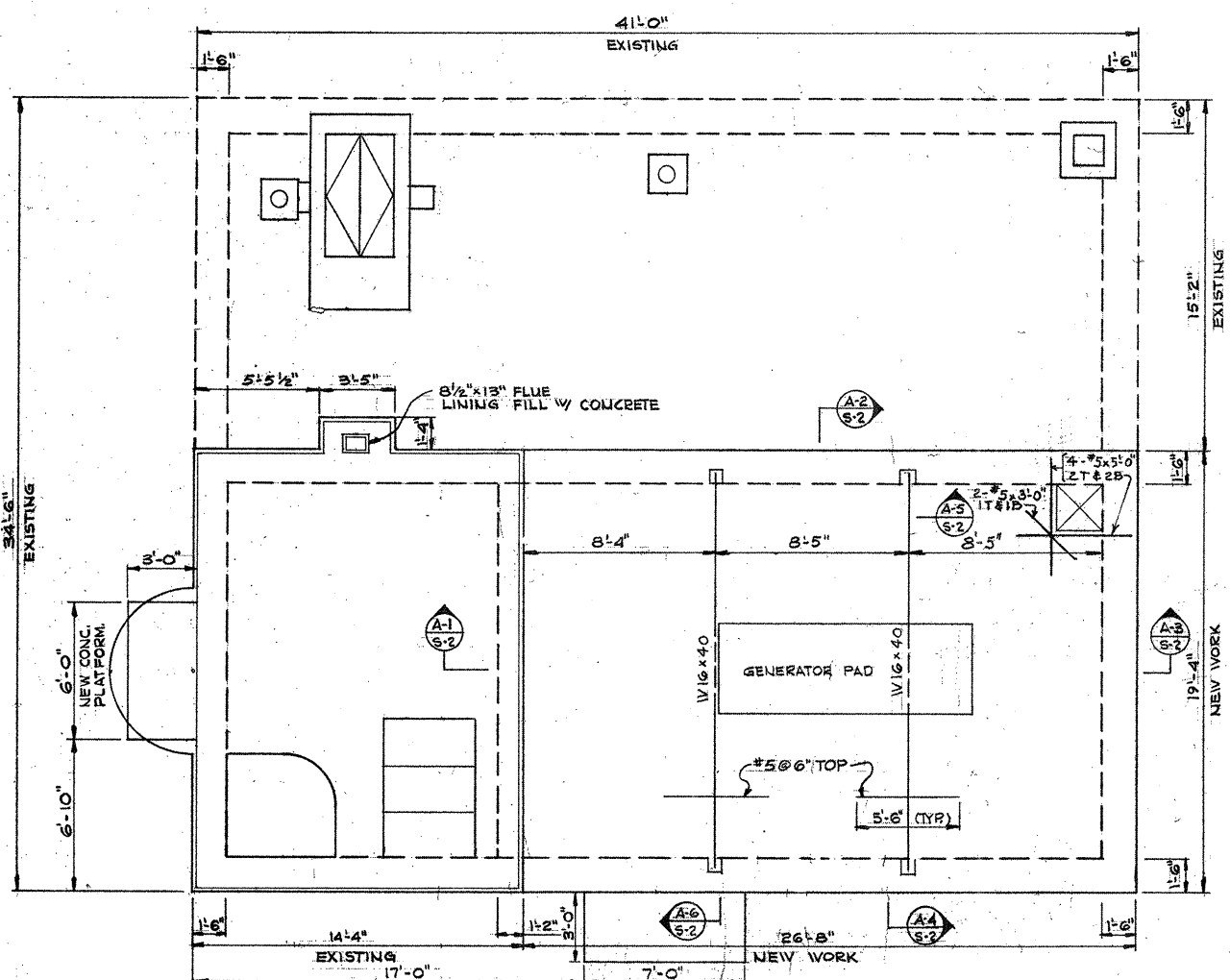


SECTION R-2
SCALE: 1" = 1'-0"

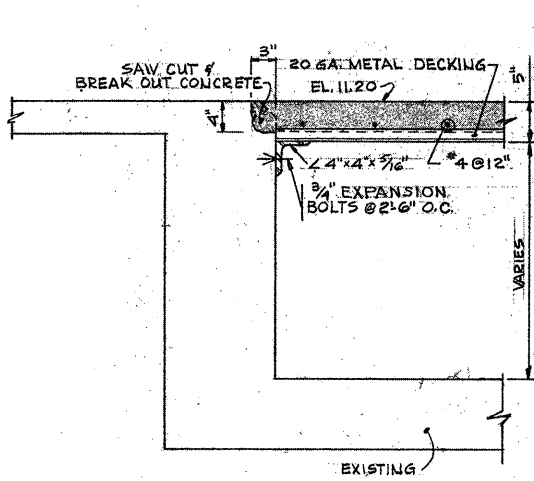


SECTION R-3
SCALE: 1" = 1'-0"

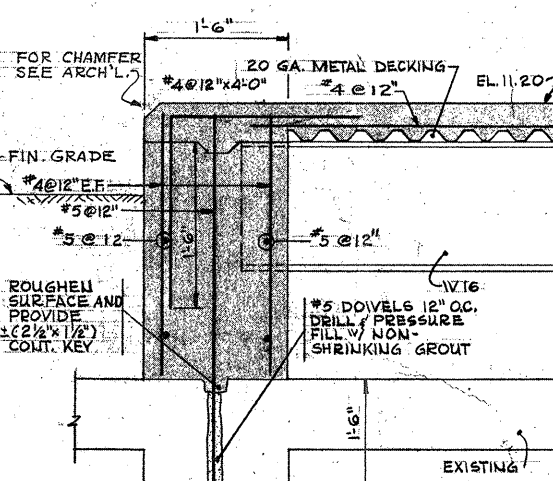
ATTENTION
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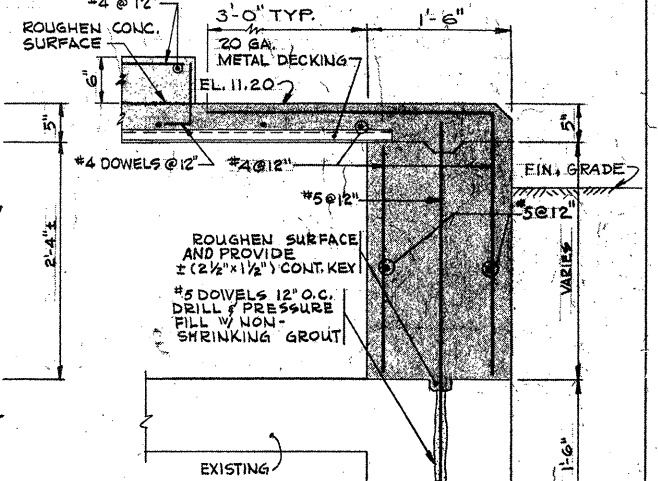
PLAN AT EL. 11.20
SCALE: 1/4" = 1'-0"



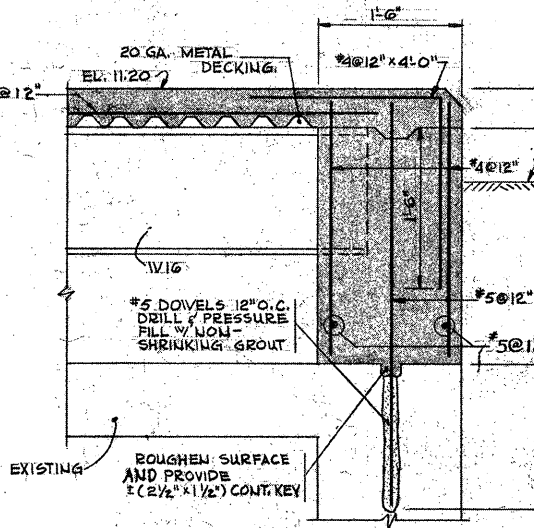
SECTION A-1
SCALE: 1" = 1'-0"



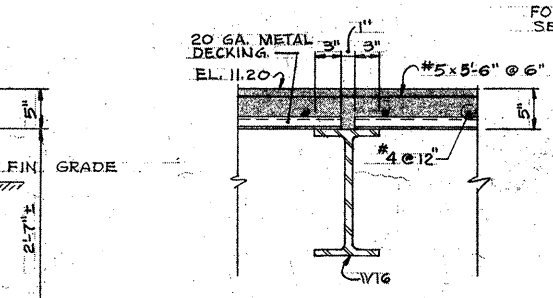
SECTION A-2
SCALE: 1" = 1'-0"



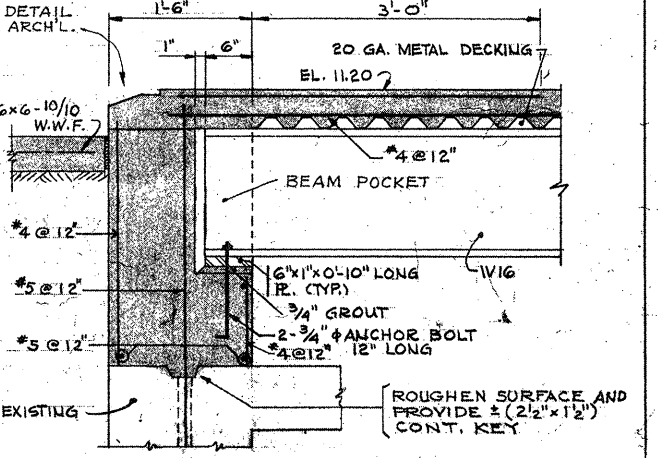
SECTION A-3
SCALE: 1" = 1'-0"



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



SECTION A-5
SCALE: 1" = 1'-0"



SECTION A-6
SCALE: 1" = 1'-0"

- NOTES:**
1. EXACT SIZE AND LOCATION OF GENERATOR PAD TO SUIT EQUIPMENT.
 2. FOR TYPICAL DETAILS & GENERAL NOTES SEE DRAWING S-1
 3. METAL DECK FOR FLOOR SLAB SHALL HAVE THE FOLLOWING PROPERTIES:-
MOMENT OF INERTIA NOT LESS THAN .431 IN⁴/FT. WIDTH.
SECTION MODULUS NOT LESS THAN .363 IN³/FT. WIDTH.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

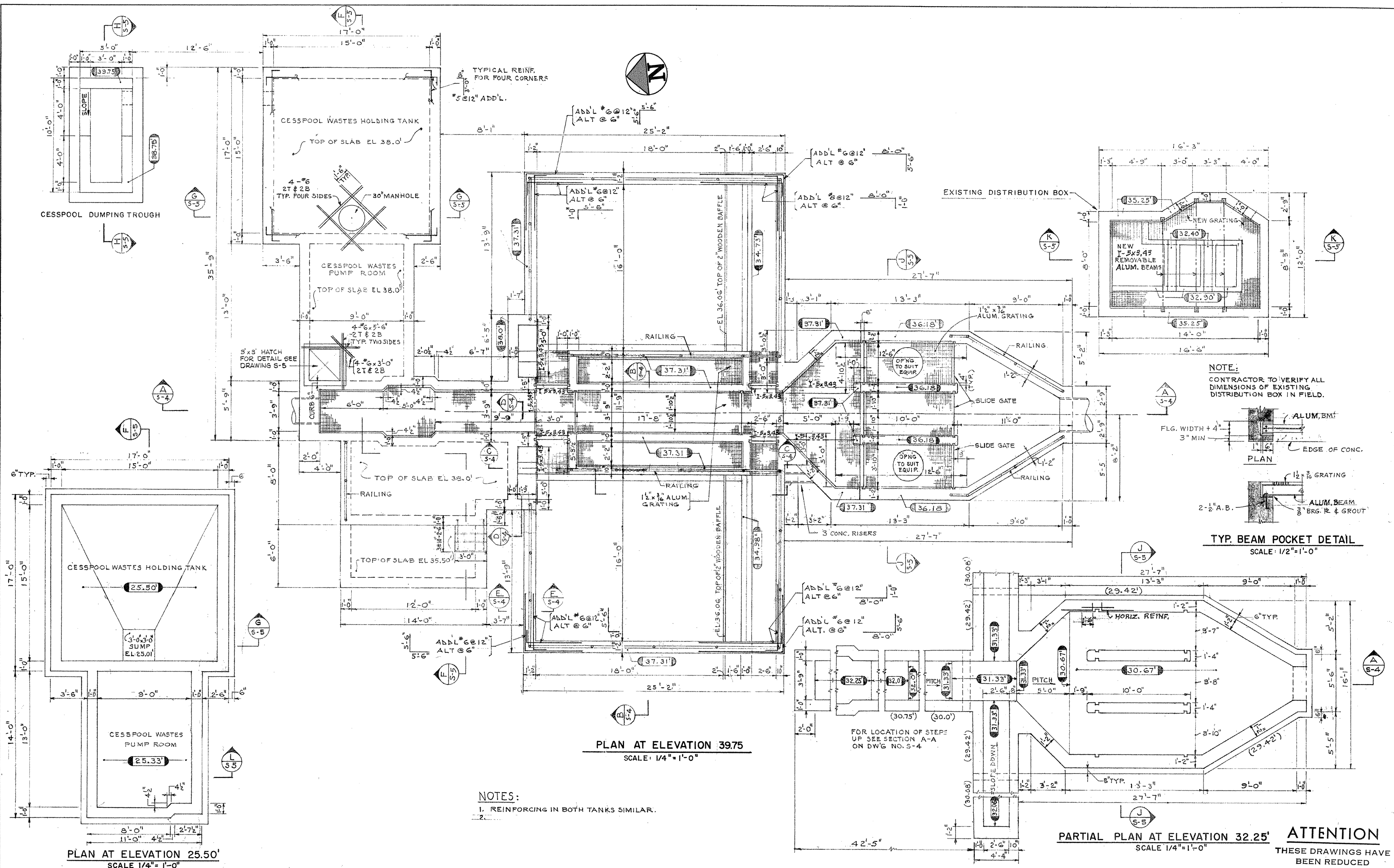


DRAWN: K. STANLEY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Kelly
 CITY OF TAUNTON

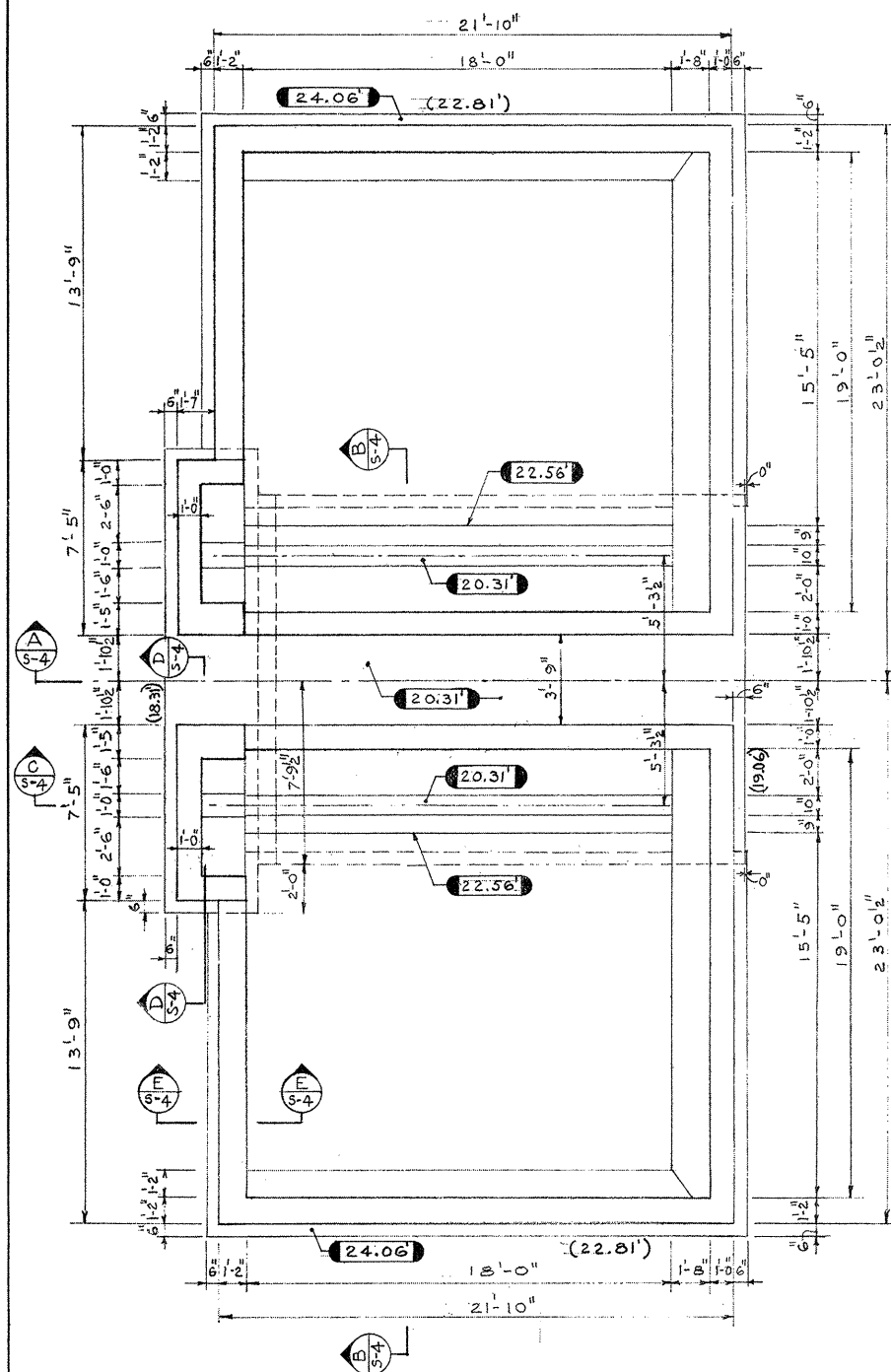
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
MODIFIED RAW SEWAGE PUMPING STATION
STRUCTURAL
PLANS & SECTIONS

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
S-2

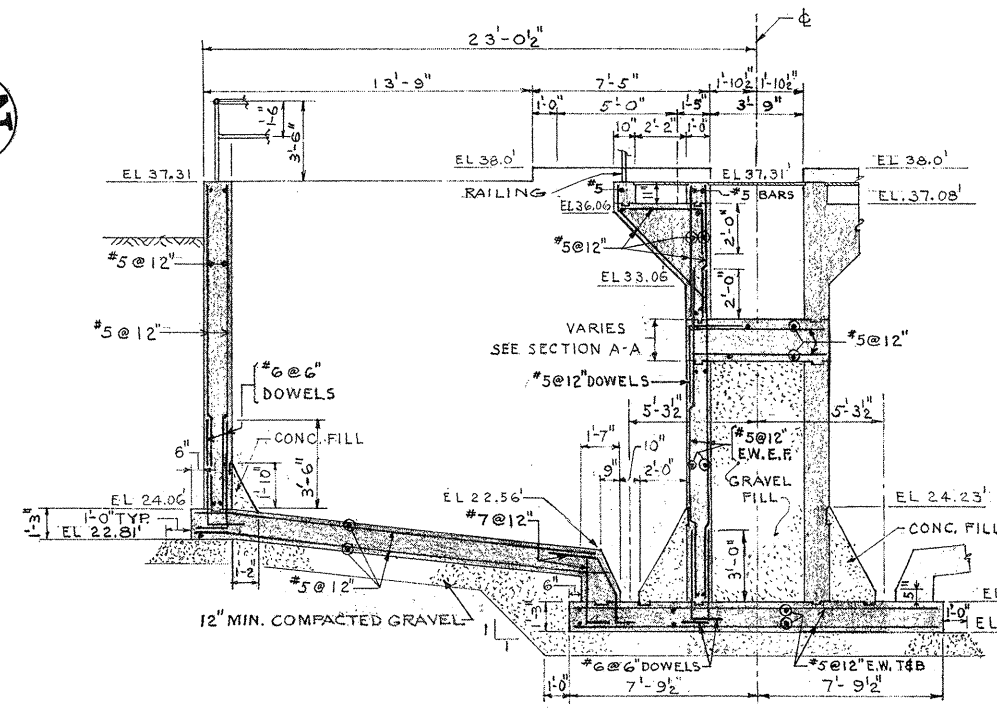


REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

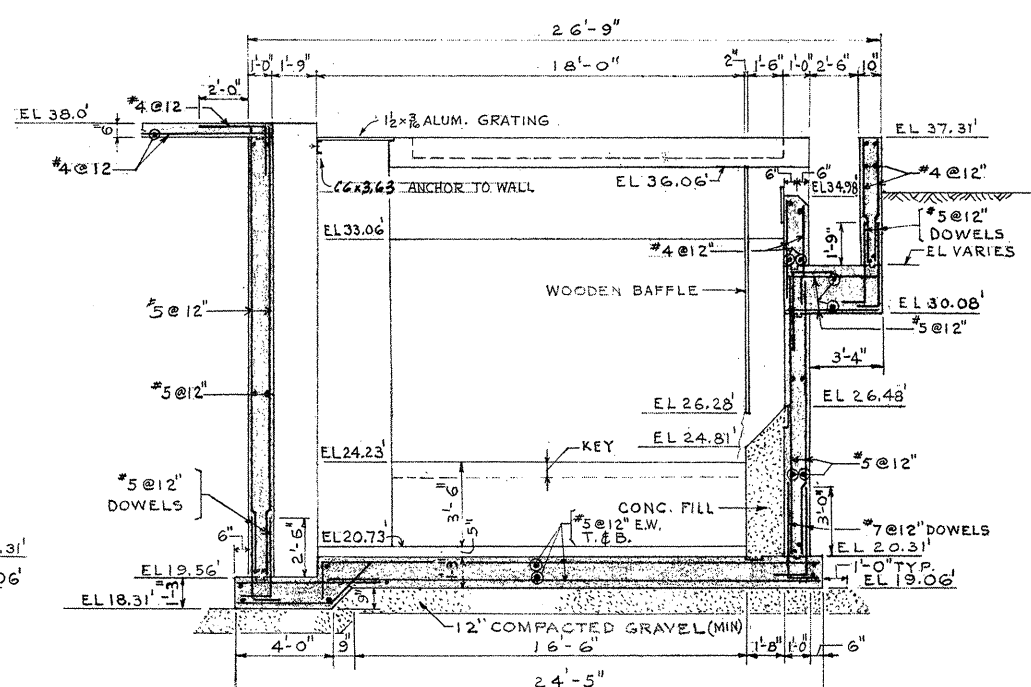
	DRAWN: J. MURPHY DESIGNED: J. SHAH CHECKED: J. SHAH APPROVED: W. HUNDLEY DATE: JULY, 1974	APPROVED CITY OF TAUNTON	CITY OF TAUNTON, MASSACHUSETTS WASTEWATER TREATMENT FACILITY ADDITIONS & IMPROVEMENTS	SCALE: 1/4" = 1'-0" CEM NO. 1981
	CE MAGUIRE, INC. ARCHITECTS • ENGINEERS • PLANNERS PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.		INLET WORKS STRUCTURAL PLANS	DRAWING NO. S-3



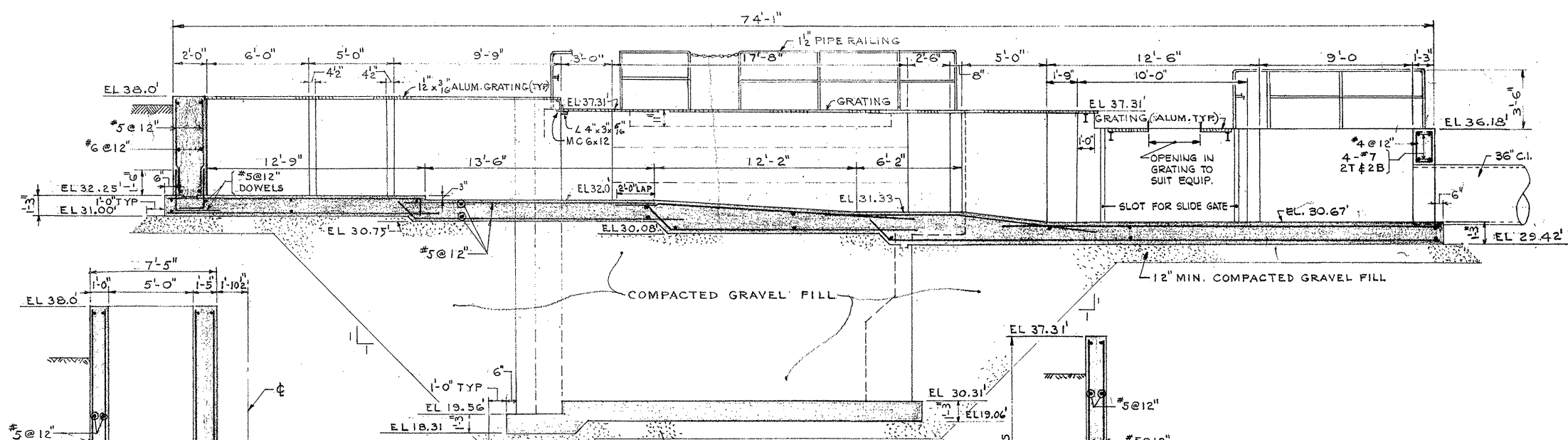
PLAN AT ELEVATION 26.00
SCALE: 1/4" = 1'-0"



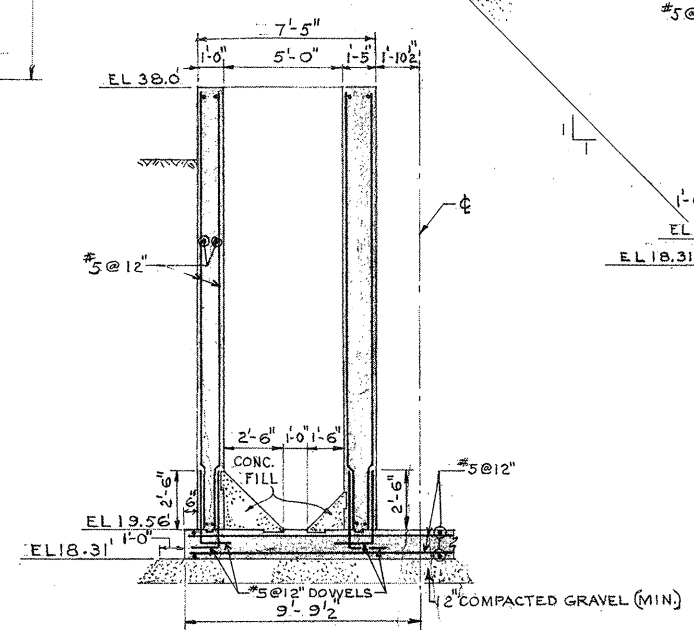
SECTION B
SCALE: 1/4" = 1'-0"
53-54



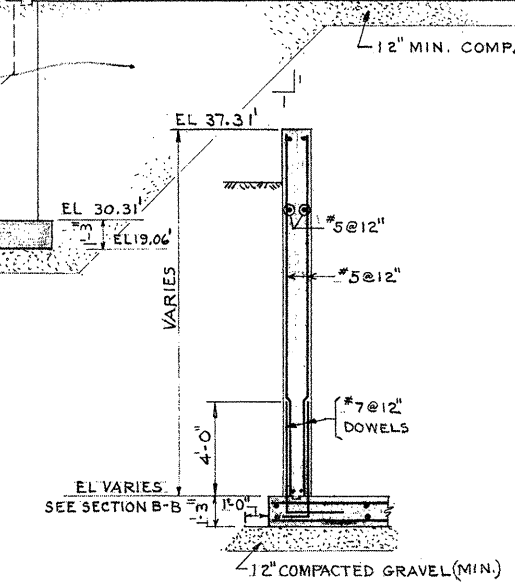
SECTION C
SCALE: 1/4" = 1'-0"
53-54



SECTION A
SCALE: 1/4" = 1'-0"
53-54



SECTION D
SCALE 1/4" = 1'-0"
53-54



SECTION E
SCALE 1/4" = 1'-0"
53-54

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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

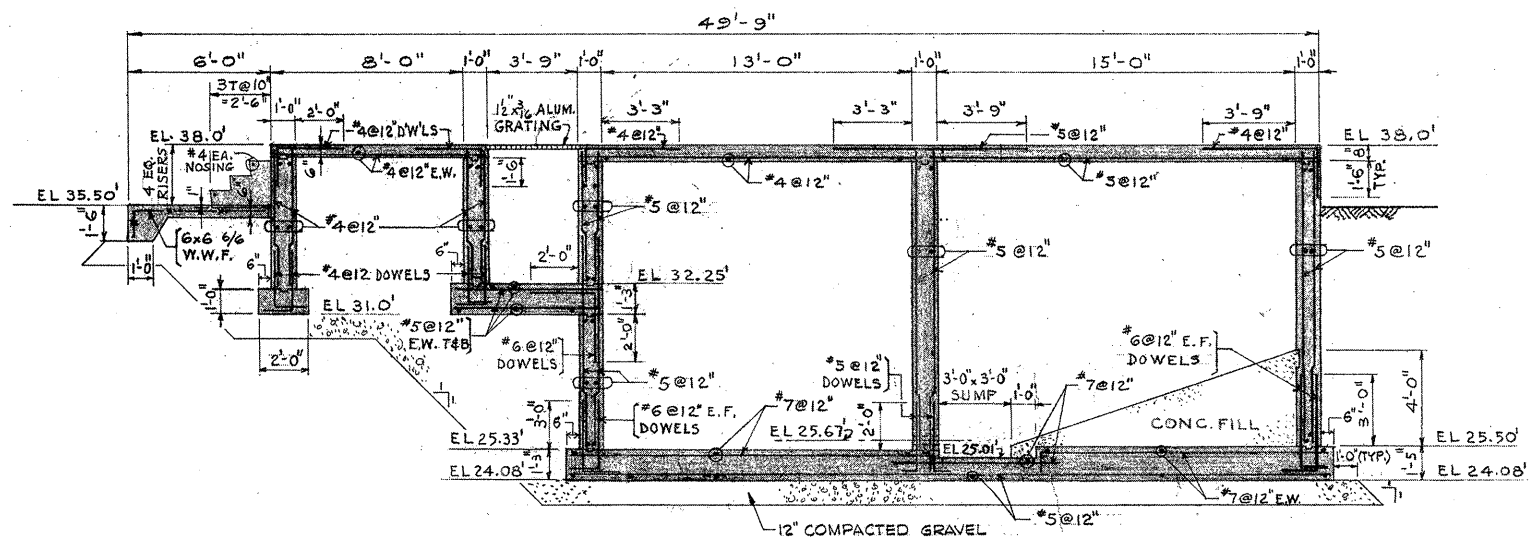
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

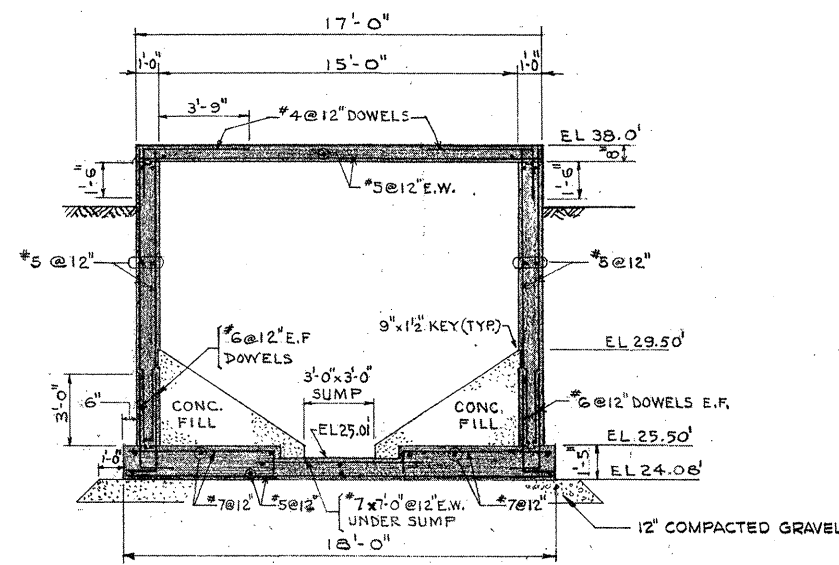
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

INLET WORKS
STRUCTURAL
 PLAN AT ELEVATION 26.00 AND SECTIONS

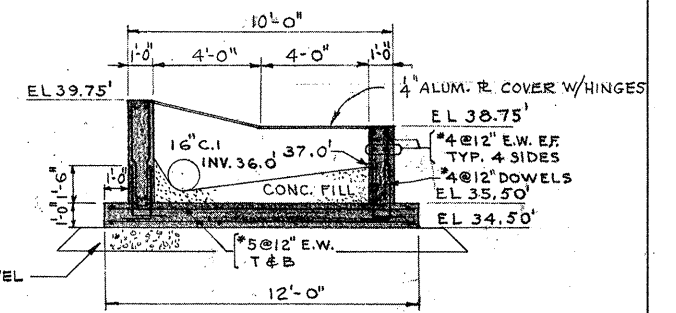
SCALE:
 1/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-4



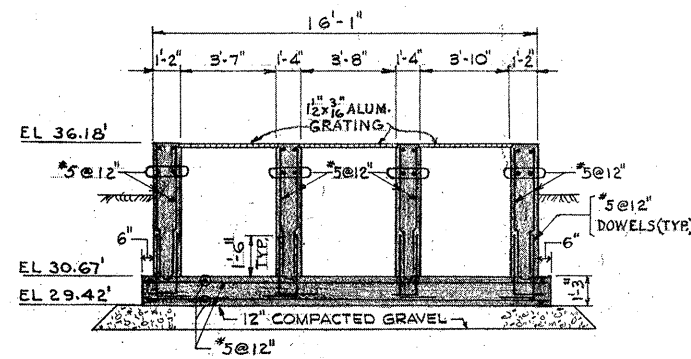
SECTION F
SCALE 1/4" = 1'-0" S-3



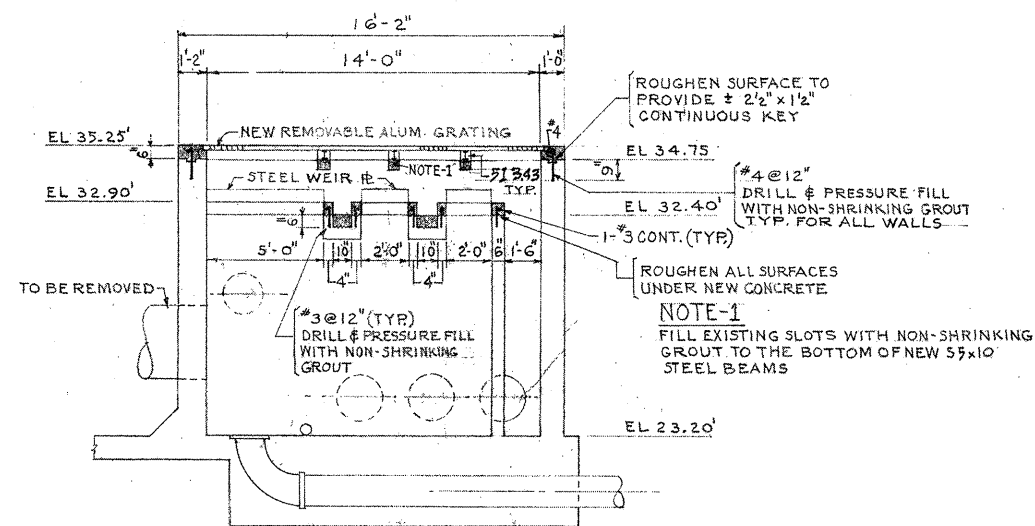
SECTION G
SCALE 1/4" = 1'-0" S-3



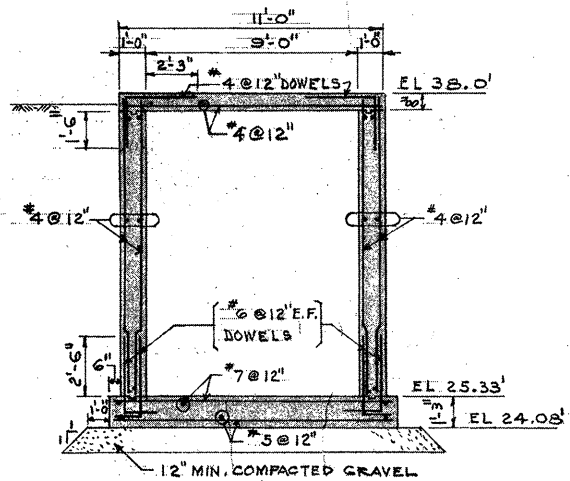
SECTION H
SCALE 1/4" = 1'-0" S-3



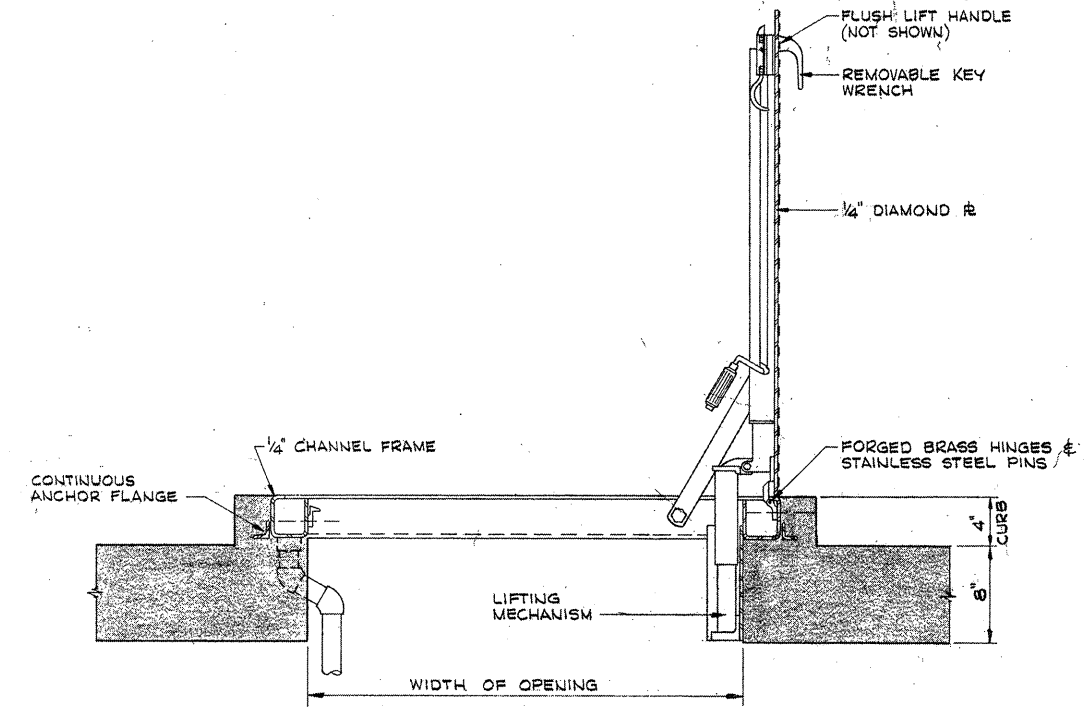
SECTION J
SCALE 1/4" = 1'-0" S-3



SECTION K
SCALE 1/4" = 1'-0" S-3



SECTION L
SCALE 1/4" = 1'-0" S-3



WATER TIGHT HATCH DETAIL
NOT TO SCALE

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

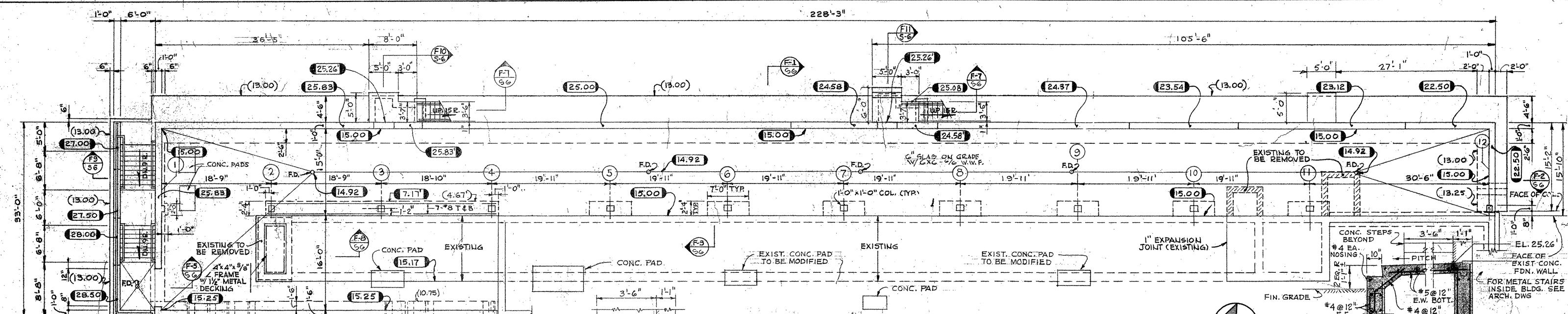
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Perry
 CITY OF TAUNTON

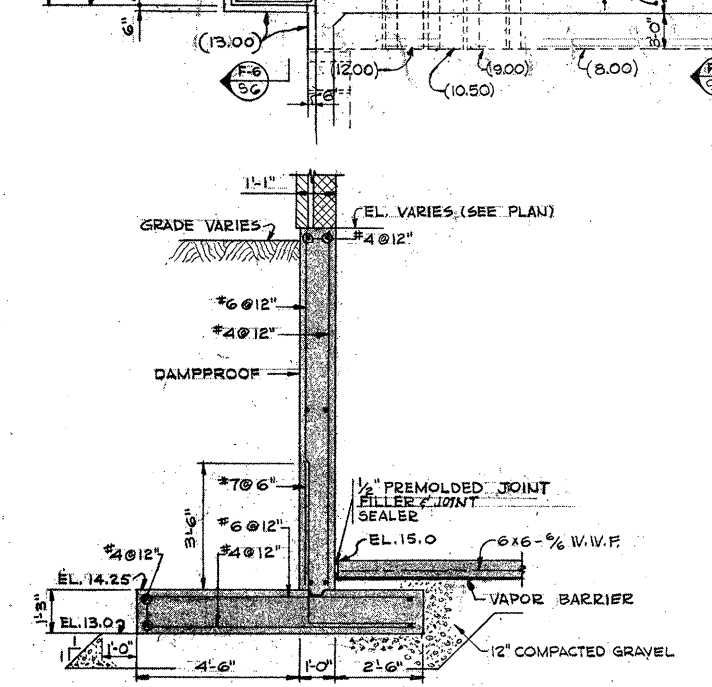
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

INLET WORKS
 STRUCTURAL
 SECTIONS

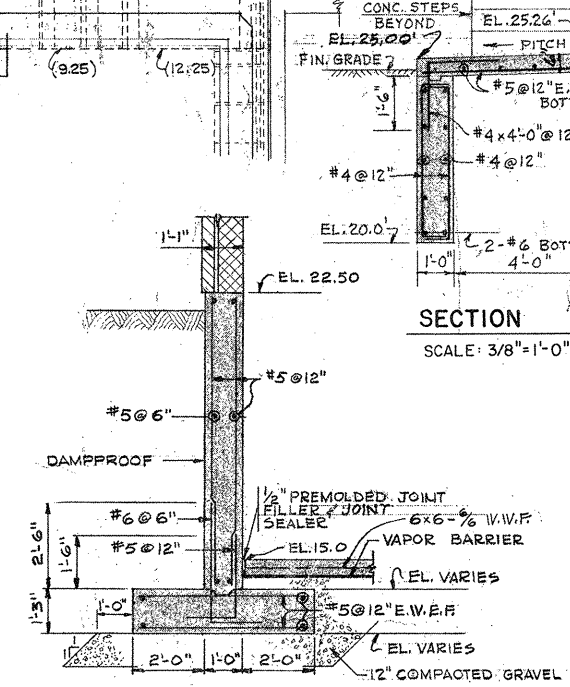
SCALE
 1/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-5



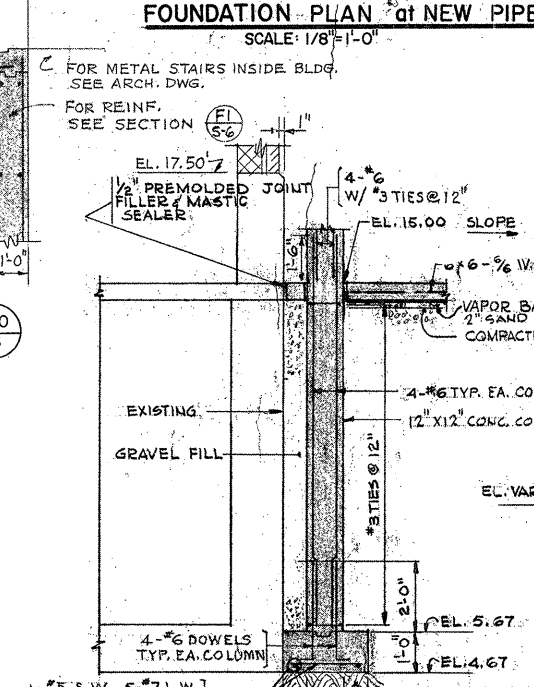
FOUNDATION PLAN of NEW PIPE GALLERY
SCALE: 1/8"=1'-0"



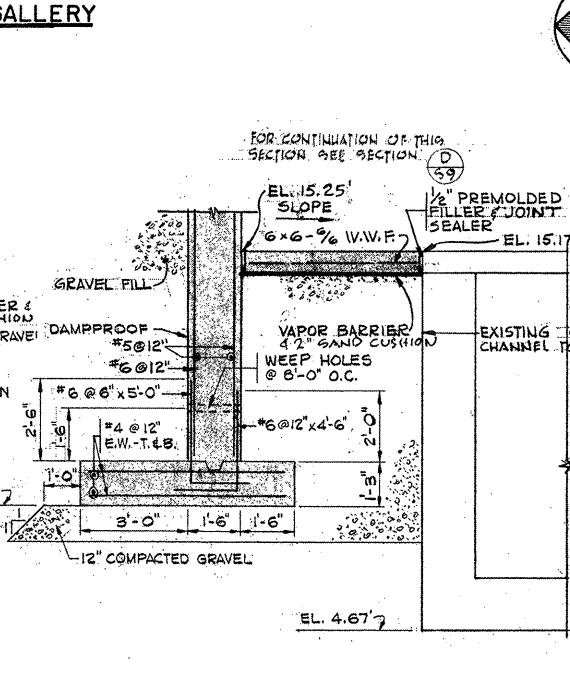
SECTION F-1
SCALE: 3/8"=1'-0"
S6



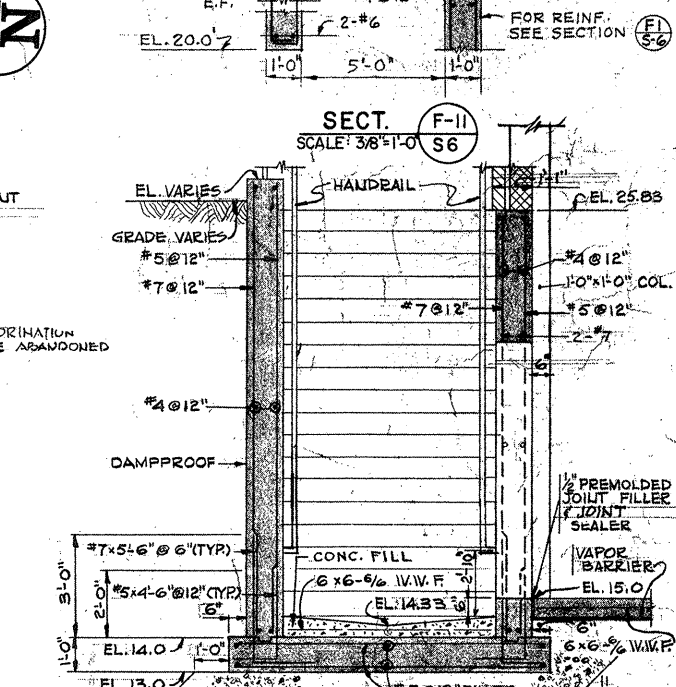
SECTION F-2
SCALE: 3/8"=1'-0"
S6



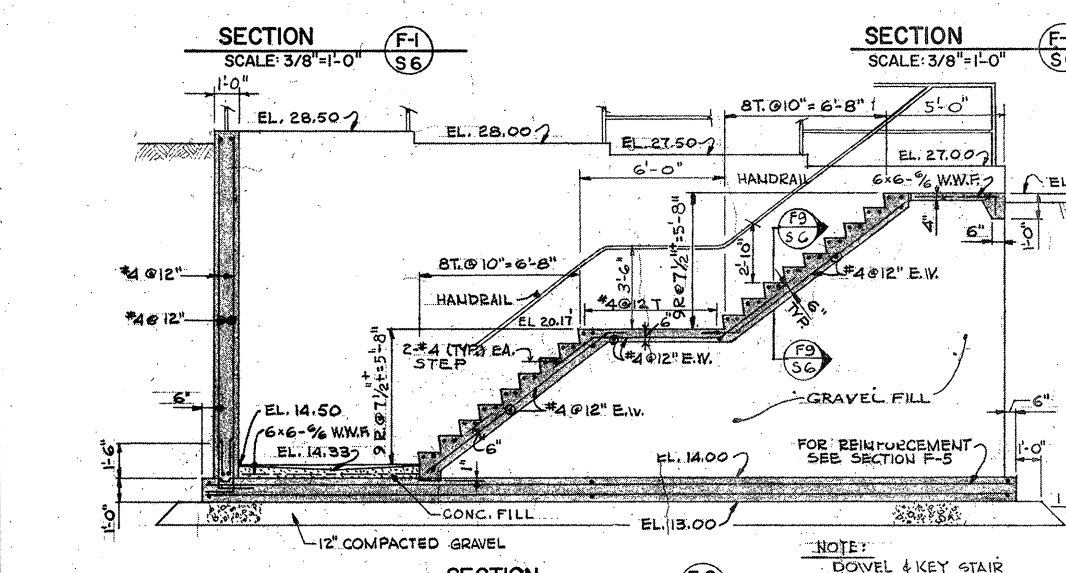
SECTION F-3
SCALE: 3/8"=1'-0"
S6



SECTION F-4
SCALE: 3/8"=1'-0"
S6

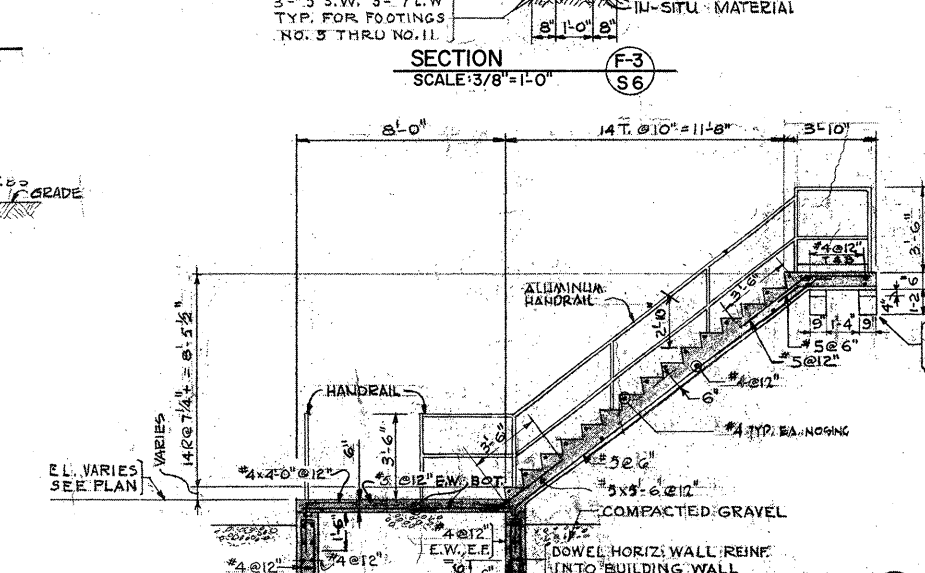


SECTION F-5
SCALE: 3/8"=1'-0"
S6

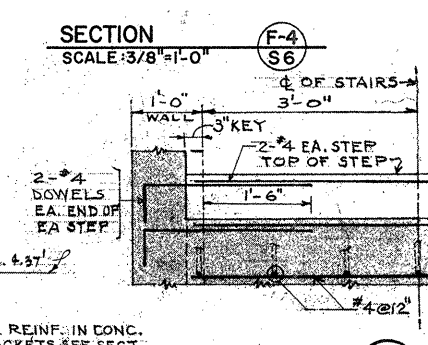


SECTION F-6
SCALE: 1/4"=1'-0"
S6

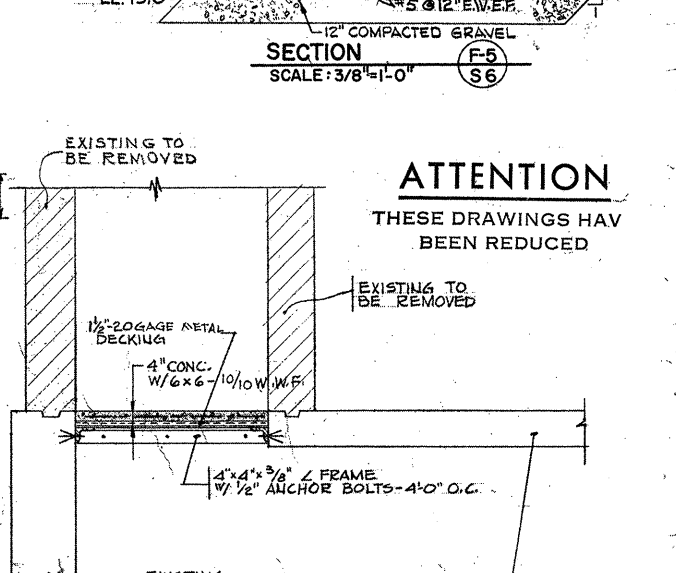
NOTE: DOWEL & KEY STAIR TO CONCRETE WALLS



SECTION F-7
SCALE: 1/4"=1'-0"
S6



SECTION F-9
SCALE: 3/4"=1'-0"
S6



SECTION F-8
SCALE: 1/2"=1'-0"
S6

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

NOTE: FOR TYPICAL DETAILS & GENERAL NOTES - SEE DRAWING S-1

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

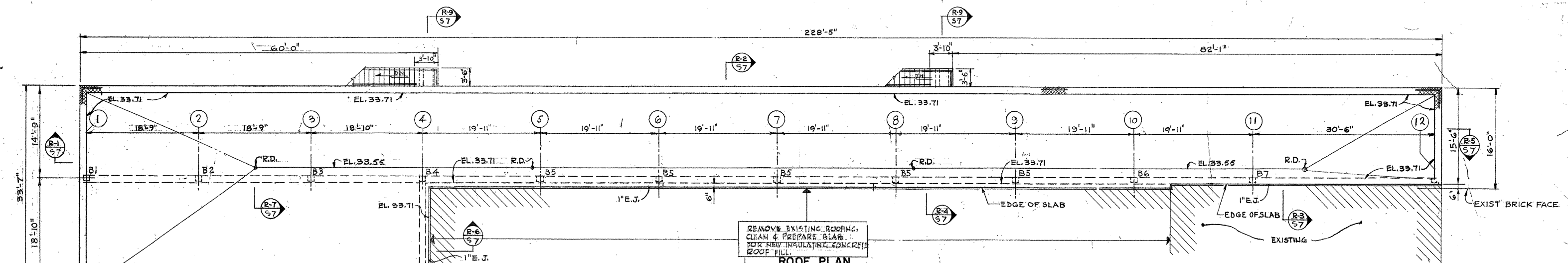


DRAWN: K. STANLEY DESIGNED: J. SHAH
CHECKED: J. SHAH APPROVED: W. HUNDLEY
DATE: JULY, 1974
CE MAGUIRE, INC.
ARCHITECTS - ENGINEERS - PLANNERS
PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

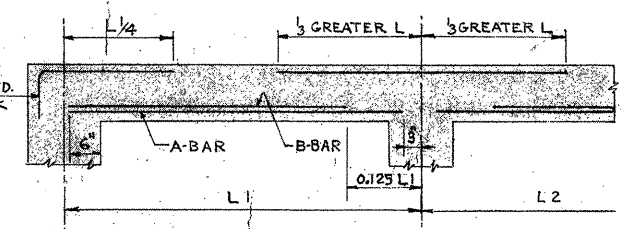
APPROVED
Charles A. Perry
CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
OPERATIONS BUILDING WITH PIPE GALLERY
STRUCTURAL
FOUNDATION, PLAN & SECTIONS - NEW PIPE GAL.

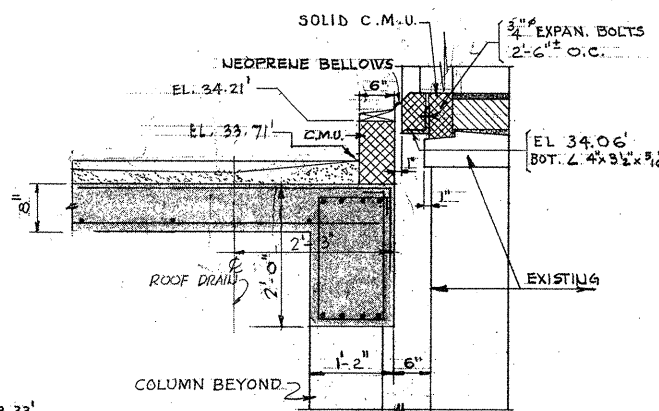
SCALE AS NOTED
CEM NO. 1981
DRAWING NO. **S-6**



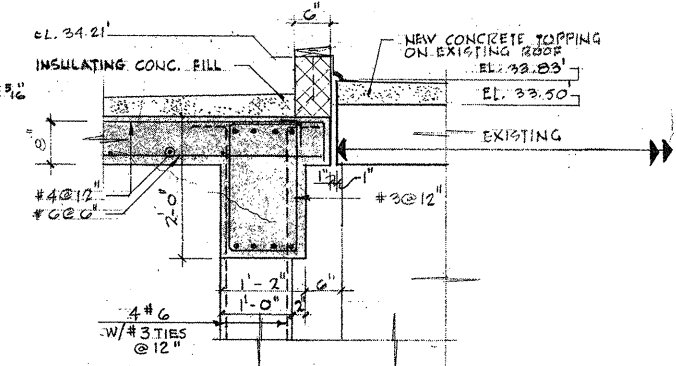
ROOF PLAN
SCALE: 1/8" = 1'-0"



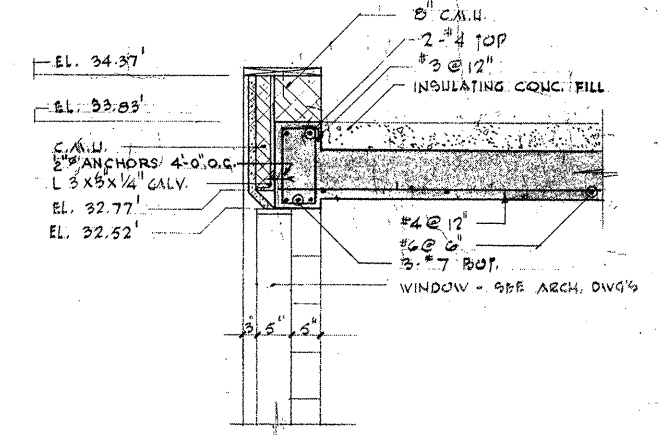
TYPICAL BEAM REINFORCING DETAIL



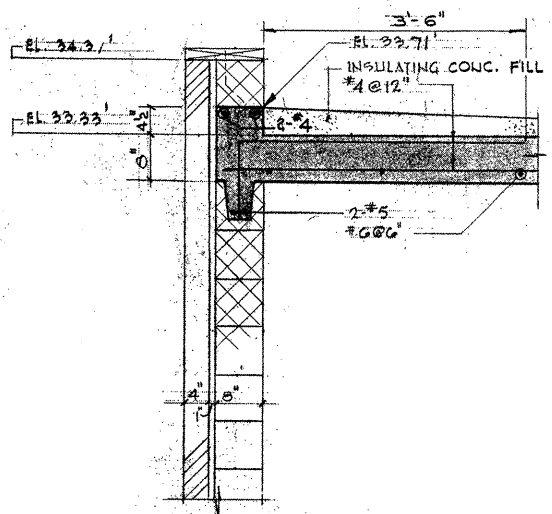
SECTION R3
SCALE: 3/4" = 1'-0"



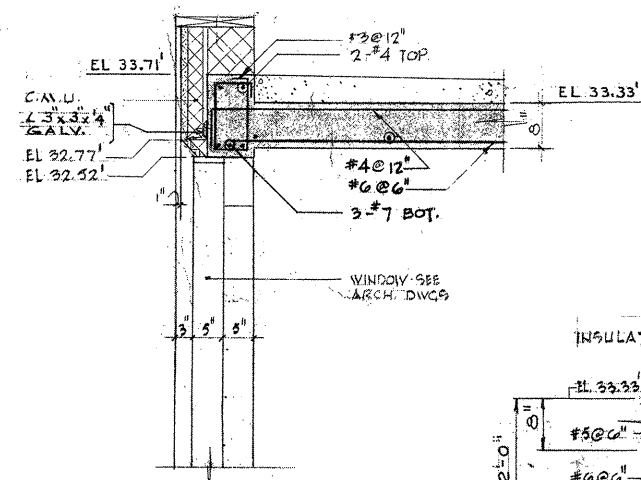
SECTION R4
SCALE: 3/4" = 1'-0"



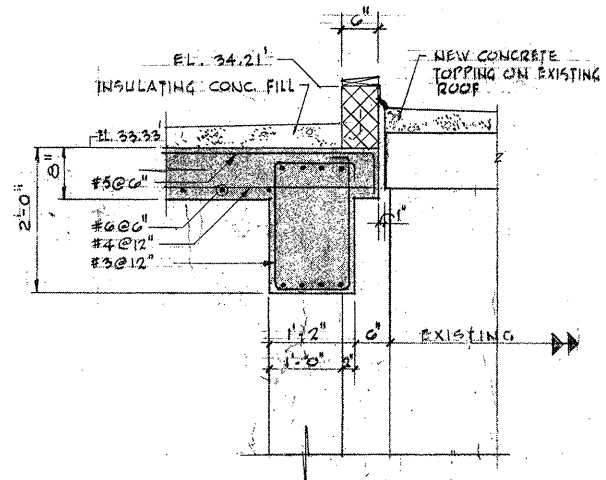
SECTION R5
SCALE: 3/4" = 1'-0"



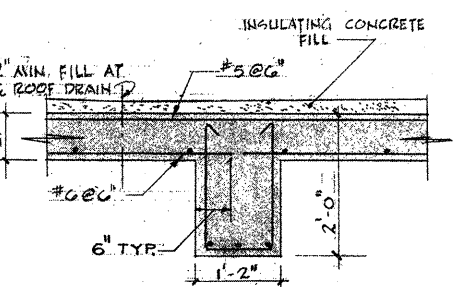
SECTION R1
SCALE: 3/4" = 1'-0"



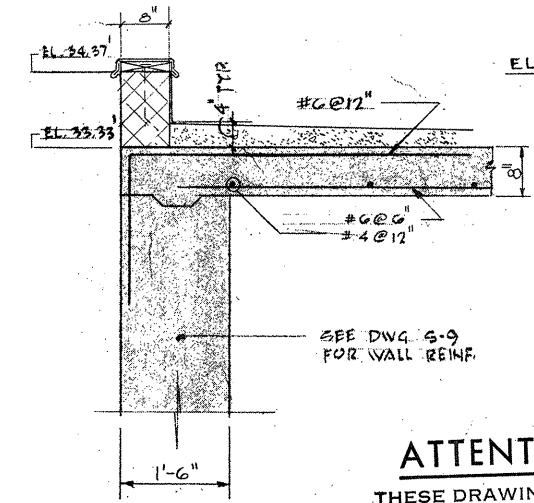
SECTION R2
SCALE: 3/4" = 1'-0"



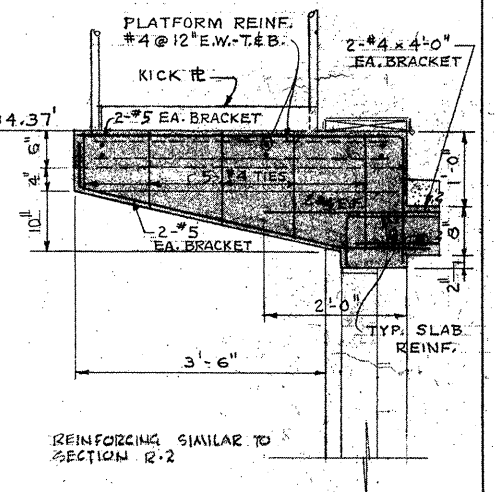
SECTION R6
SCALE: 3/4" = 1'-0"



SECTION R7
SCALE: 3/4" = 1'-0"



SECTION R8
SCALE: 3/4" = 1'-0"



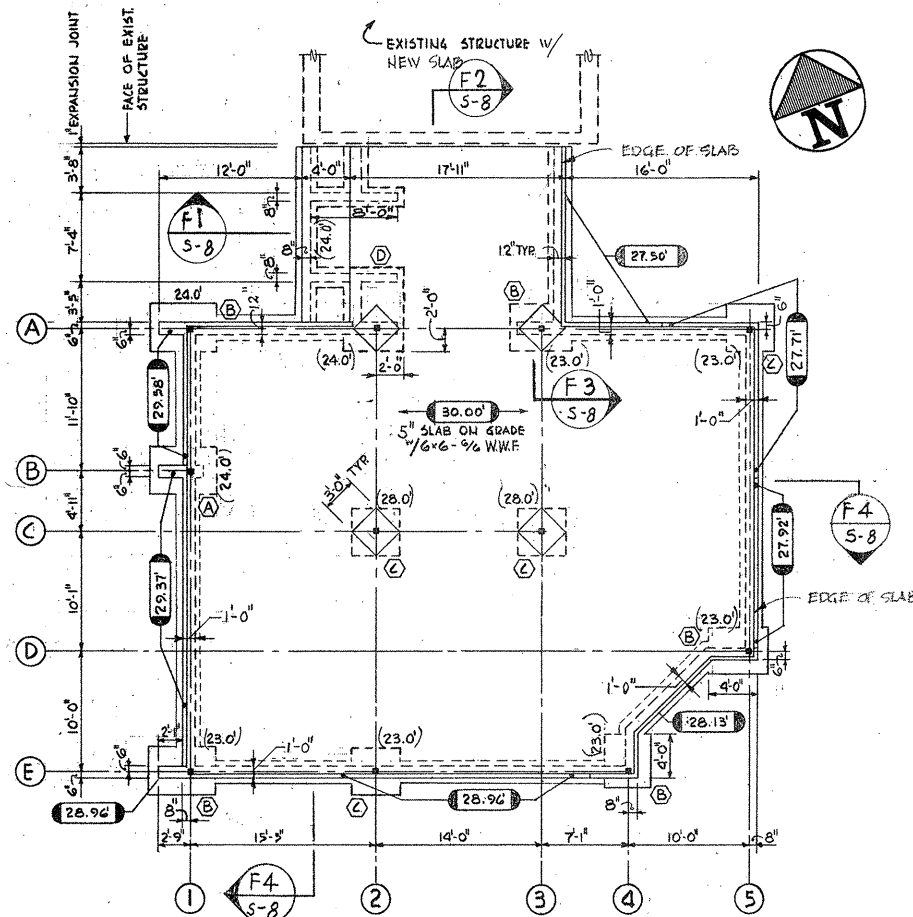
SECTION R9
SCALE: 3/4" = 1'-0"

BEAM SCHEDULE							
BEAM MARK	B	D	BOTTOM REINF. A BAR	B BAR	TOP REINF.	STIRRUPS FROM FACE OF EACH SUPPORT	REMARKS
B1	14	24	2-8	2-8	4-8 L.E. 4-8 R.E.	#3 @ 12"	
B2	14	24	2-8	2-8	4-8 L.E. 4-8 R.E.	#3 @ 12"	
B3	14	24	2-8	2-8	4-8 L.E. 4-8 R.E.	#3 @ 12"	
B4	14	24	2-7	2-7	4-8 L.E. 4-7 R.E.	#3 @ 12"	
B5	14	24	2-7	2-7	4-7 E.E.	#3 @ 12"	
B6	14	24	2-7	2-7	4-7 L.E. 7-8 R.E.	#3 @ 12"	*TWO LAYERS
B7	14	24	2-9	2-9	7-8 L.E. 4-8 R.E.	#3 @ 12"	

ATTENTION
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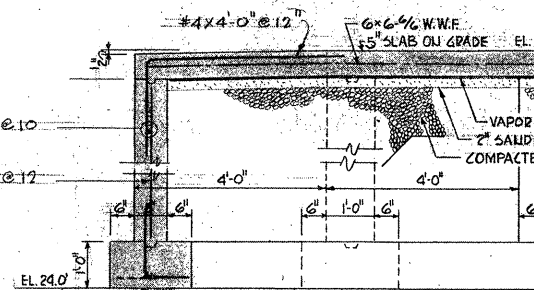
REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: K. STANLEY CHECKED: J. SHAH DATE: JULY, 1974	DESIGNED: J. SHAH APPROVED: W. HUNDLEY	CITY OF TAUNTON, MASSACHUSETTS WASTEWATER TREATMENT FACILITY ADDITIONS & IMPROVEMENTS	SCALE AS NOTED CEM NO. 1981
CE MAGUIRE, INC. ARCHITECTS • ENGINEERS • PLANNERS PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.		OPERATIONS BUILDING WITH PIPE GALLERY STRUCTURAL ROOF PLAN & SECTIONS	DRAWING NO. S-7

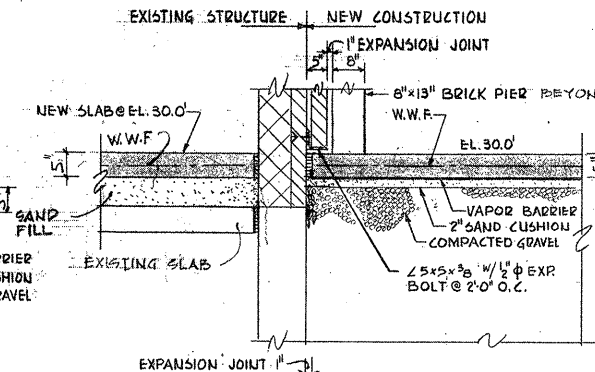


FOUNDATION PLAN
OPERATIONS BLDG.
SCALE 1/8" = 1'-0"

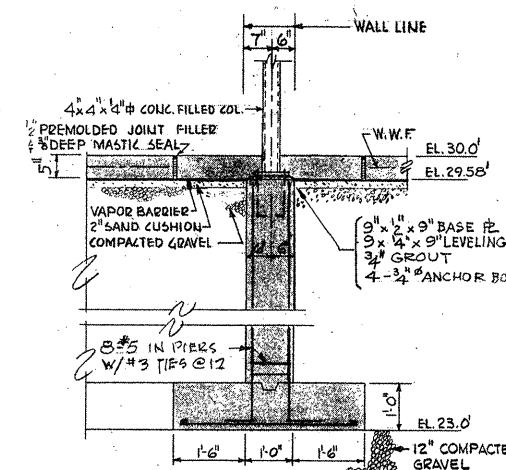
MARK	FOOTING SCHEDULE			PIER		
	SIZE L x W	T	REINF.	SIZE	REINFORCING VERTICAL	TIES
(A)	5'-0" x 4'-0"	1'-0"	7 #6 E.V.	3'-9" x 1'-0"	8 #5	#3 @ 12
(B)	5'-0" x 4'-0"	1'-0"	7 #6 E.V.			
(C)	4'-0" x 4'-0"	1'-0"	5 #6 E.V.			
(D)	7'-0" x 3'-0"	1'-0"	6 #6 L.V.			



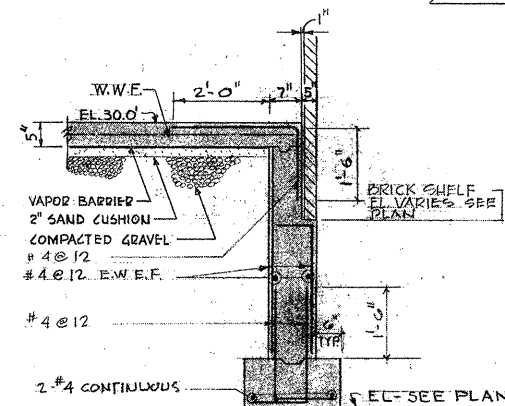
SECTION F-1
SCALE 1/2" = 1'-0"



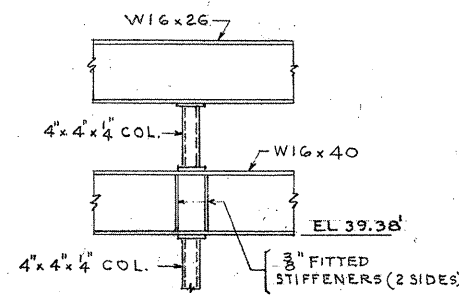
SECTION F-2
SCALE 1/2" = 1'-0"



SECTION F-3
SCALE 1/2" = 1'-0"



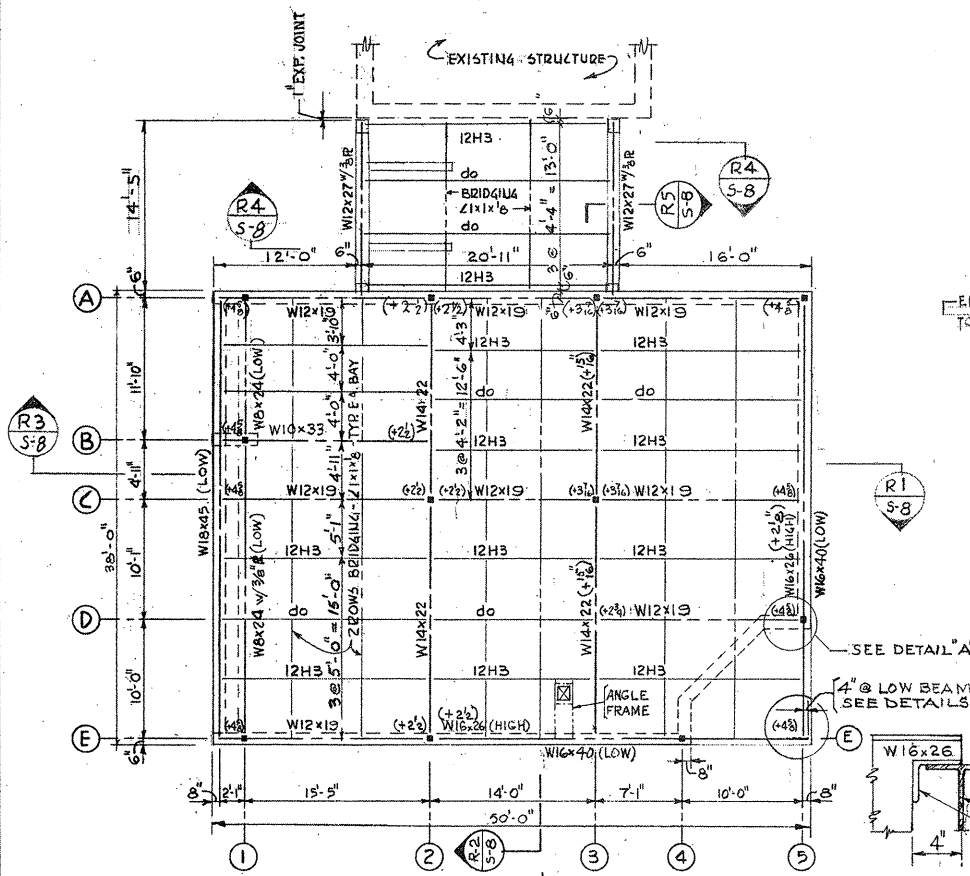
SECTION F-4
SCALE 1/2" = 1'-0"



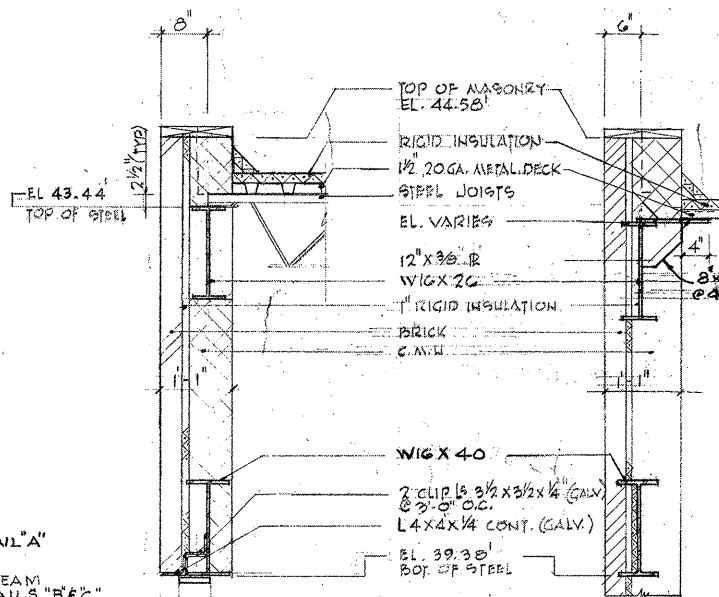
DETAIL A
SCALE 1/2" = 1'-0"

COLUMN No.	STEEL COLUMN SCHEDULE											
	A1	A2	A3	A5	B1	C2	C3	D5	E1	E2	E4	
ELEVATION												
EL 43.25 ROOF												
EL 30.0' 1ST. FLOOR												
BASE PLATE	9" x 2" x 3"											9" x 2" x 3"
ANCHOR BOLTS	4-3/8" @ 2'-6" LG.											4-3/8" @ 2'-6" LG.

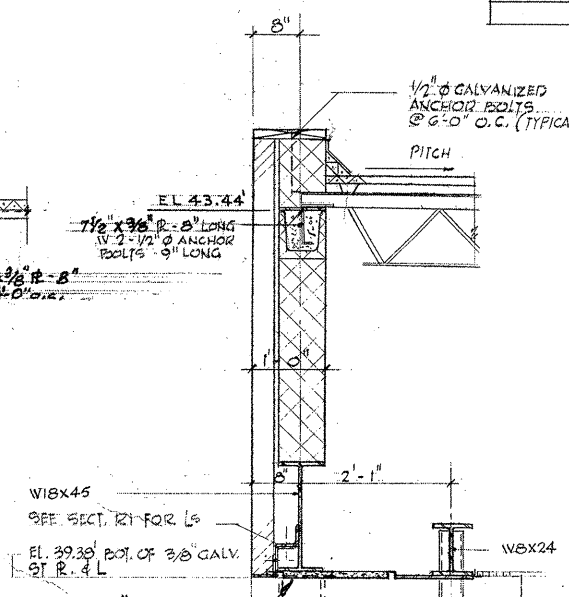
ALL COLUMNS IN THIS SCHEDULE ARE 4" x 4" x 4"



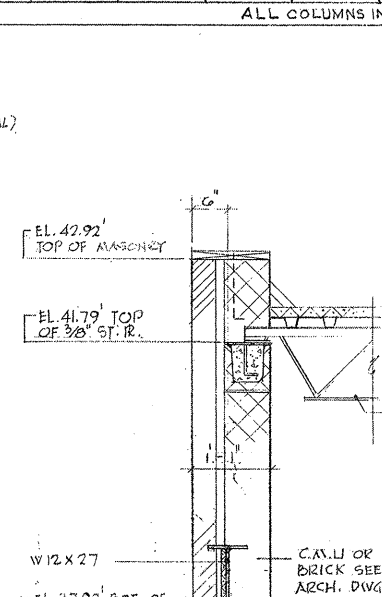
ROOF FRAMING PLAN
OPERATIONS BLDG.
SCALE 1/8" = 1'-0"



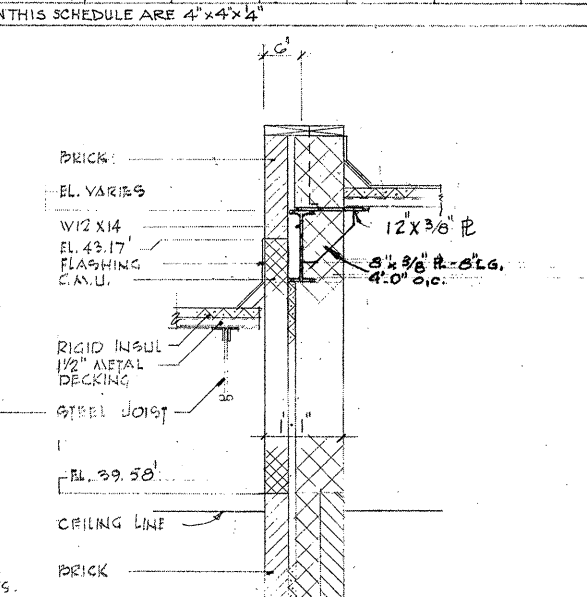
SECTION R1
SCALE 1/2" = 1'-0"



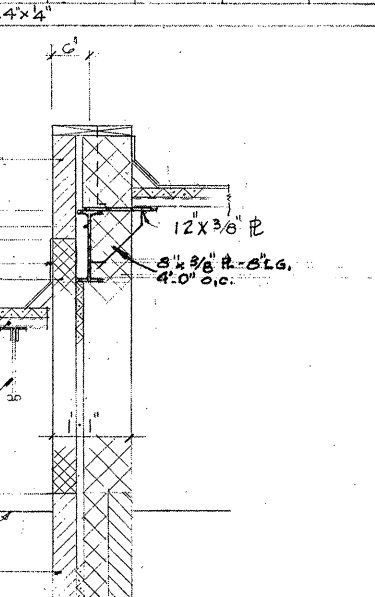
SECTION R2
SCALE 1/2" = 1'-0"



SECTION R3
SCALE 1/2" = 1'-0"



SECTION R4
SCALE 1/2" = 1'-0"



SECTION R5
SCALE 1/2" = 1'-0"

DETAIL B
SCALE 1 1/2" = 1'-0"

DETAIL C
SCALE 1 1/2" = 1'-0"

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

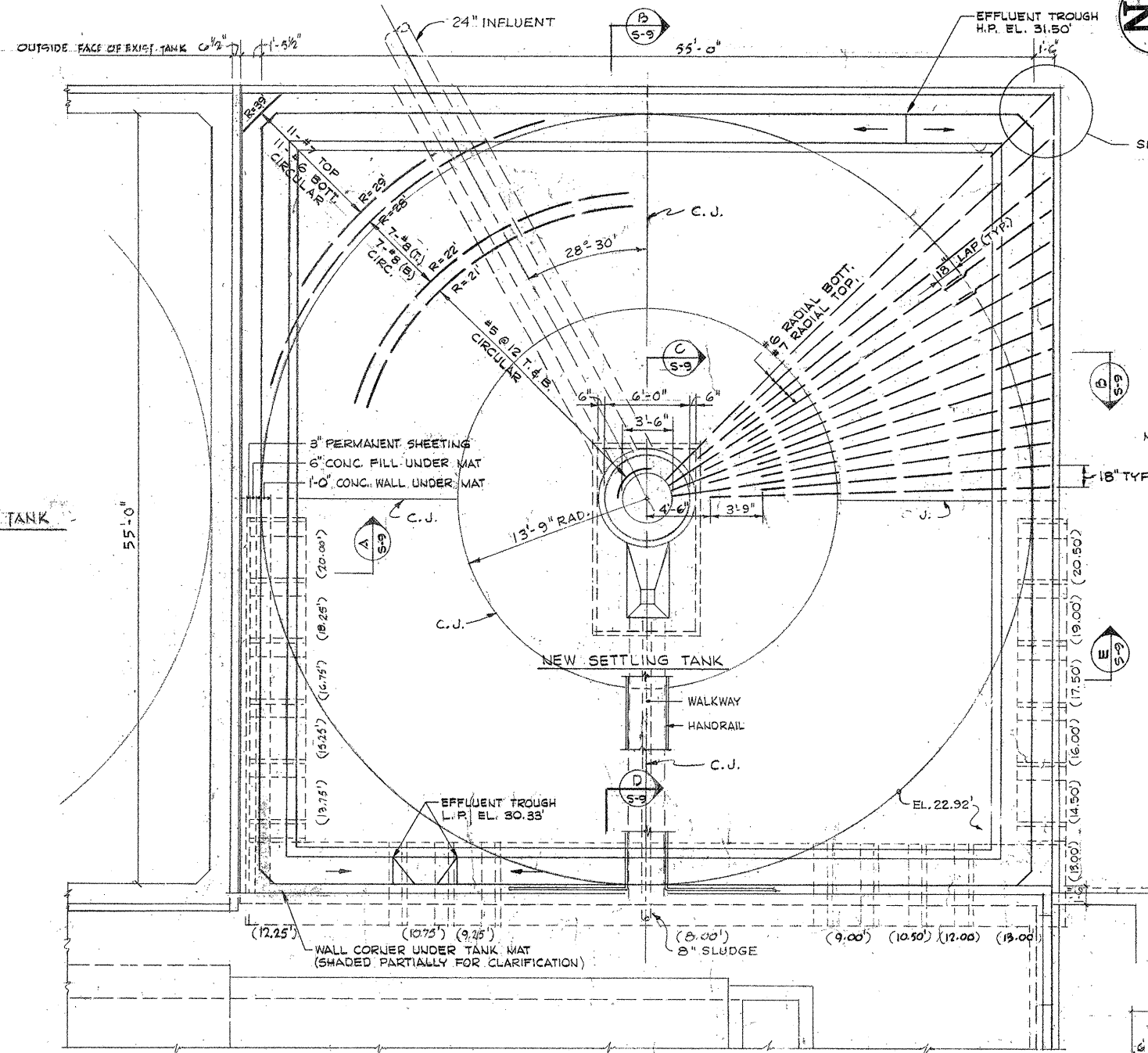
DRAWN: E. FURMAN DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED: *Charles A. Perry*
 CITY OF TAUNTON

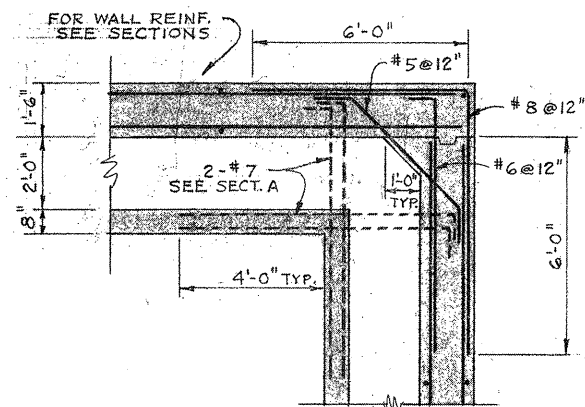
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING WITH PIPE GALLERY
STRUCTURAL PLANS AND SECTIONS

SCALE: AS NOTED
 CEM NO. 1981
 DRAWING NO. **S-8**



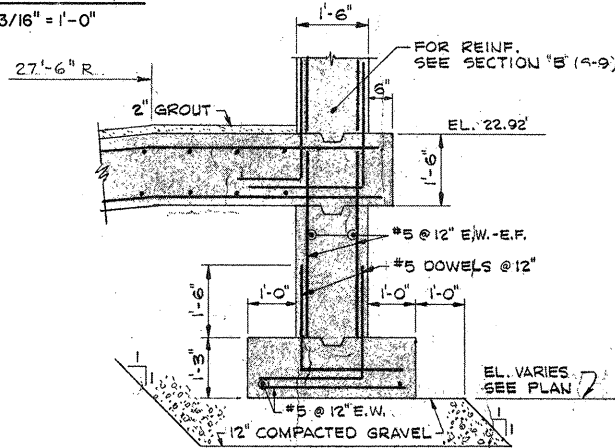
PLAN AT EL. 33.50

SCALE: 3/16" = 1'-0"



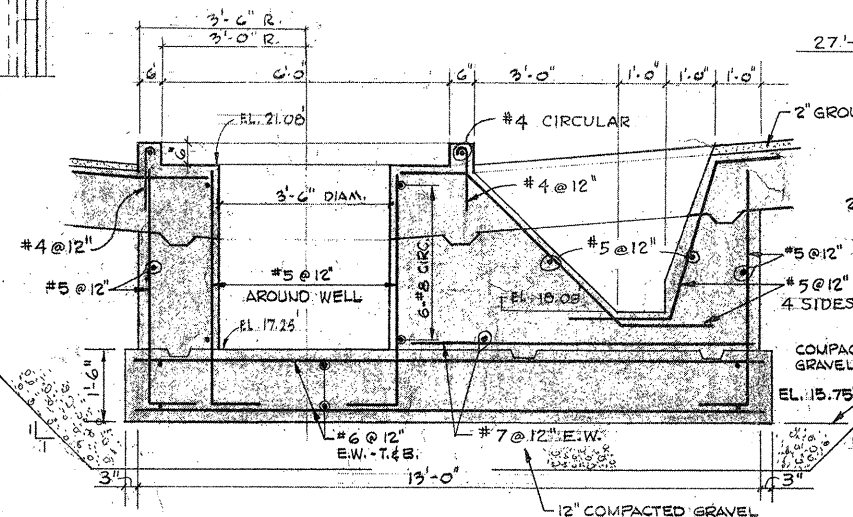
TYP. CORNER REINFORCING DETAIL

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



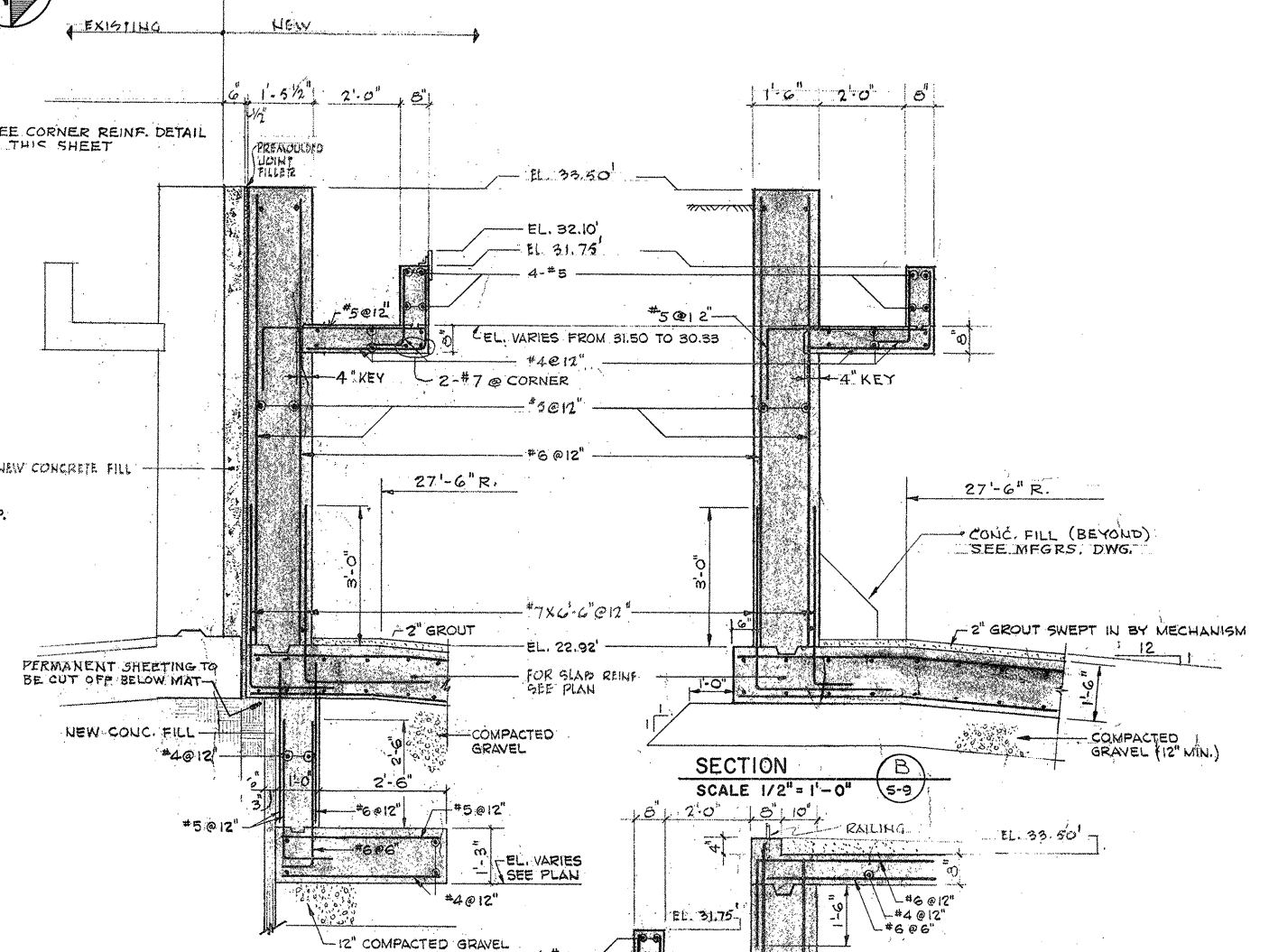
SECTION E

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



SECTION C

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



SECTION B

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

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

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

- NOTE:
1. FOR PIPE ENCASUREMENT DETAILS SEE DRAWING S-14
 2. FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS SEE DRAWING S-1
 3. MODIFY EXIST. CONC. PADS TO SUIT NEW EQUIPMENT.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: R. STRUNZ DESIGNED: V. ALSAN
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

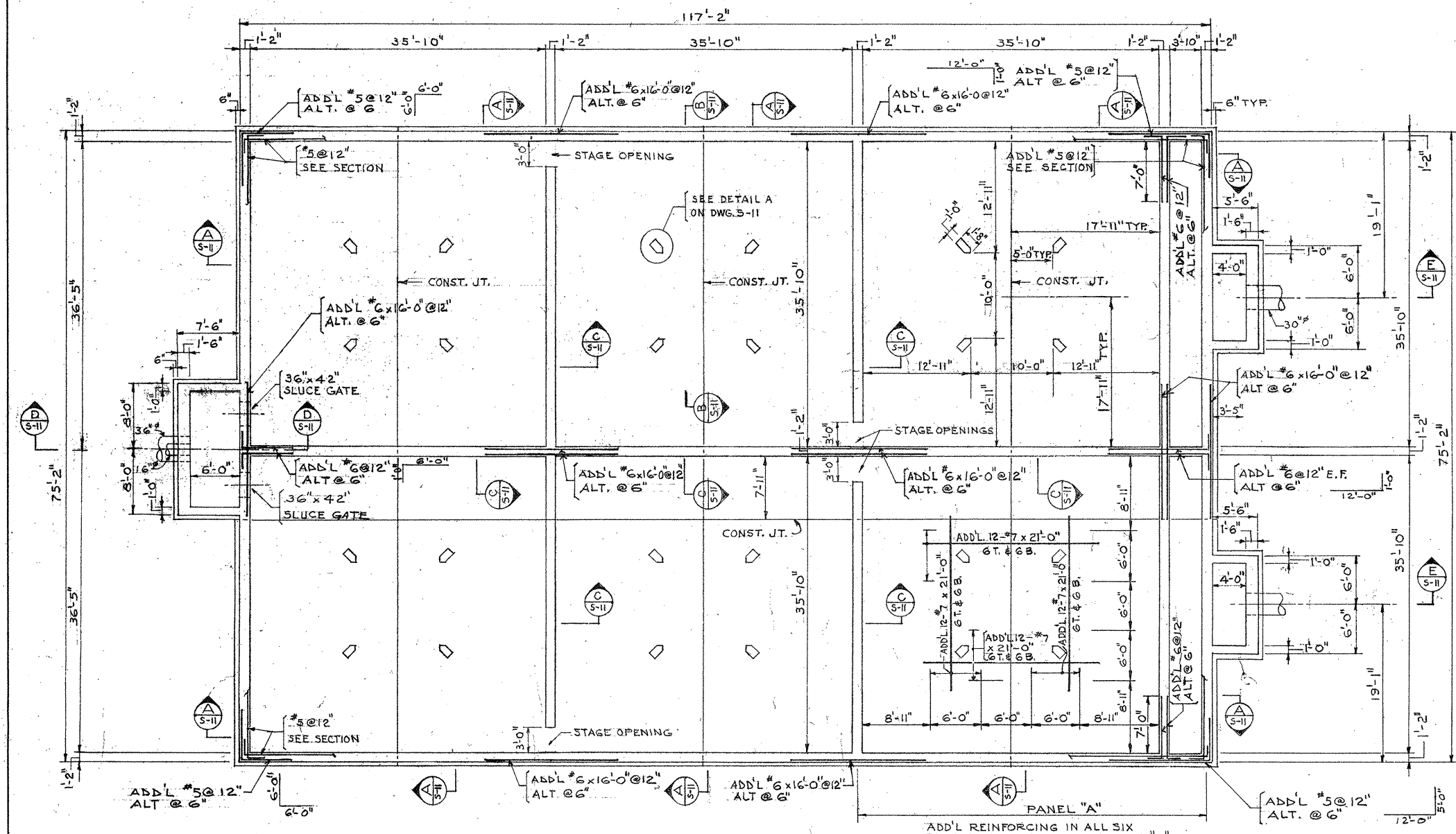
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED

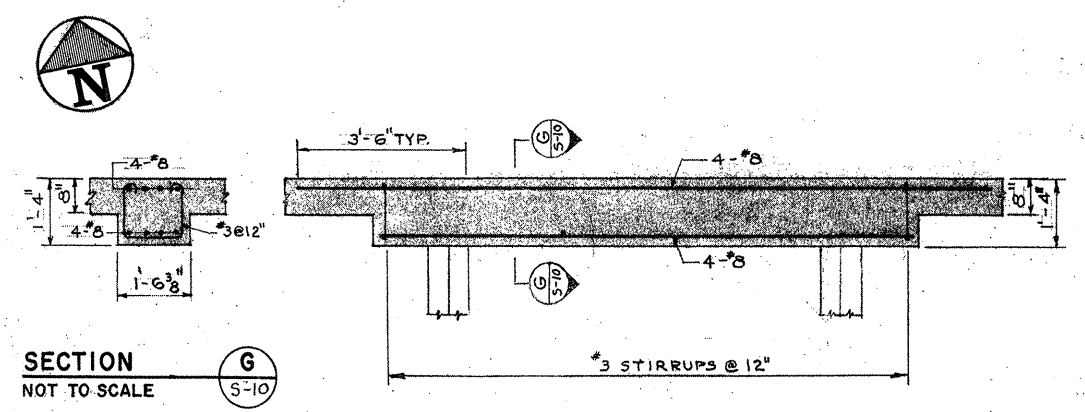
Charles G. Long
CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 PRIMARY SETTLING TANK
STRUCTURAL
 PLAN & SECTIONS

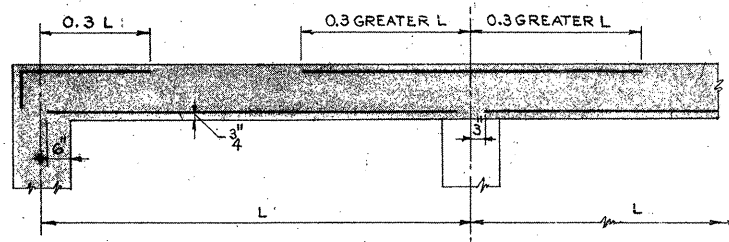
SCALE:
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
S-9



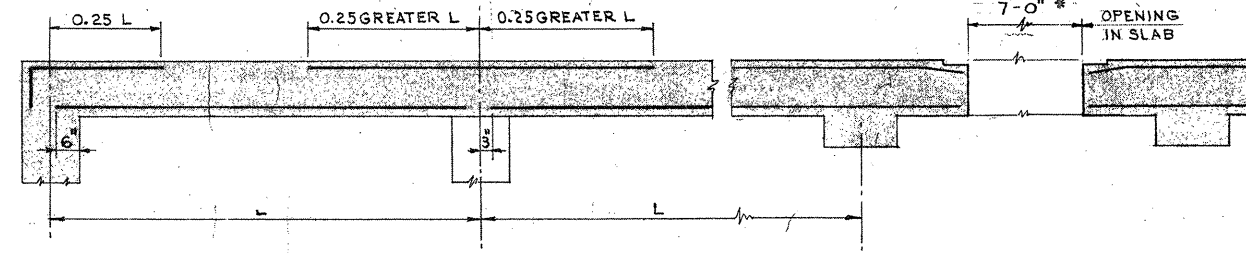
PLAN AT ELEVATION 17.02'
SCALE 1/8"=1'-0"



TYPICAL BEAM REINFORCING DETAIL AT ELEV. 31.61'
NOT TO SCALE



TYP. COLUMN STRIP REINF. DETAIL AT EL. 31.61'



TYP. MIDDLE STRIP REINF. DETAIL AT EL. 31.61'

* TO BE VERIFIED BY EQUIPMENT MFR.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

NOTES:
1. FOR TYPICAL DETAILS & GENERAL NOTES SEE DWG. NO. S-1

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

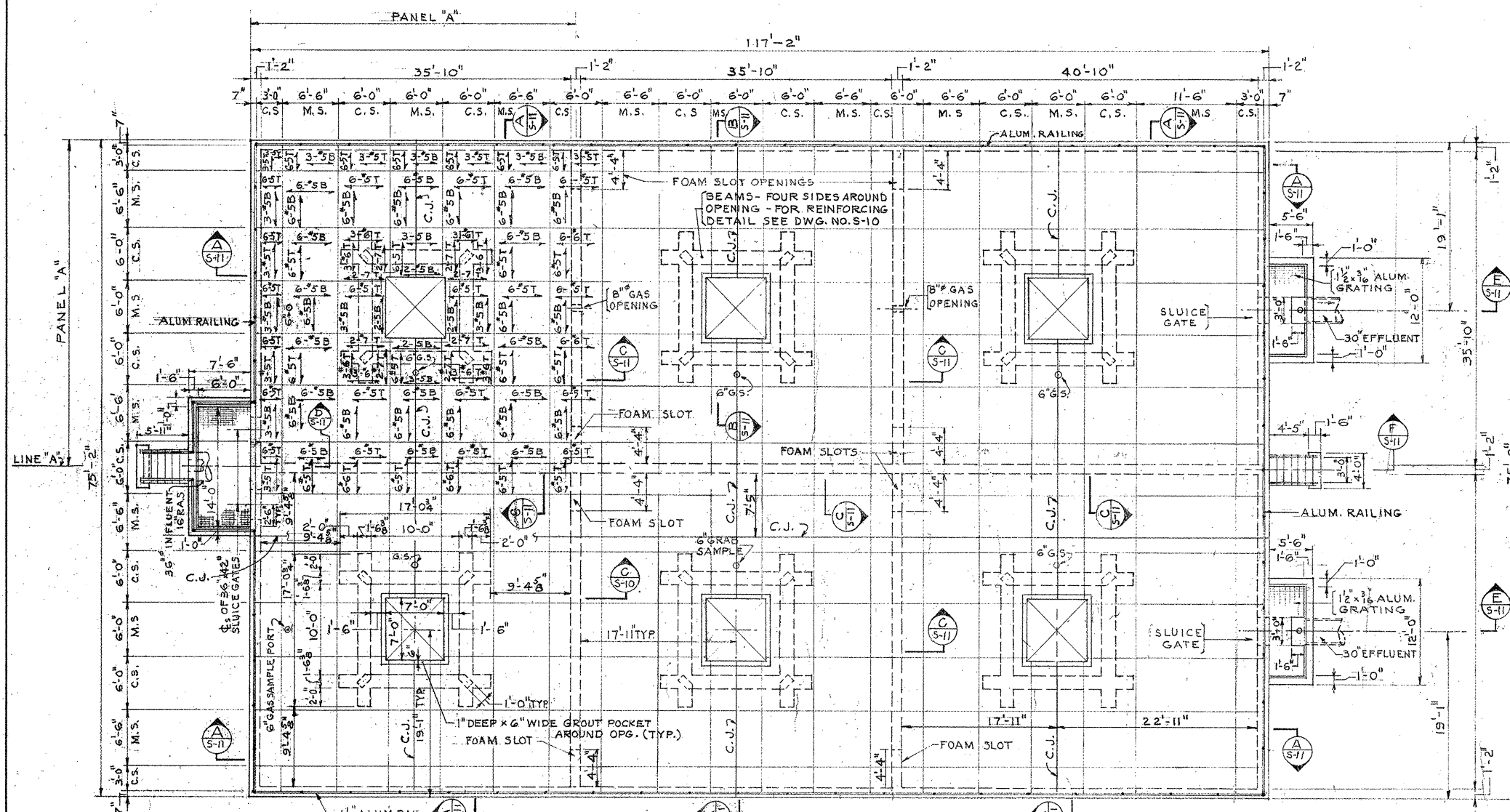
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

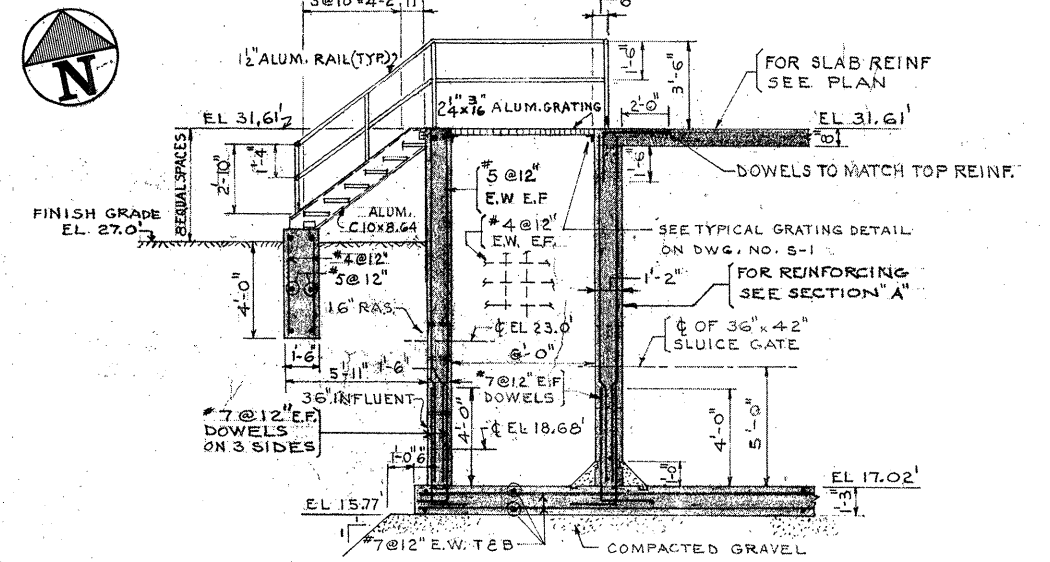
FIRST STAGE OXYGEN REACTOR
 STRUCTURAL
 PLAN AT ELEVATION 17.02 AND DETAILS

SCALE:
 CEM NO. 1981
 DRAWING NO.
S-10

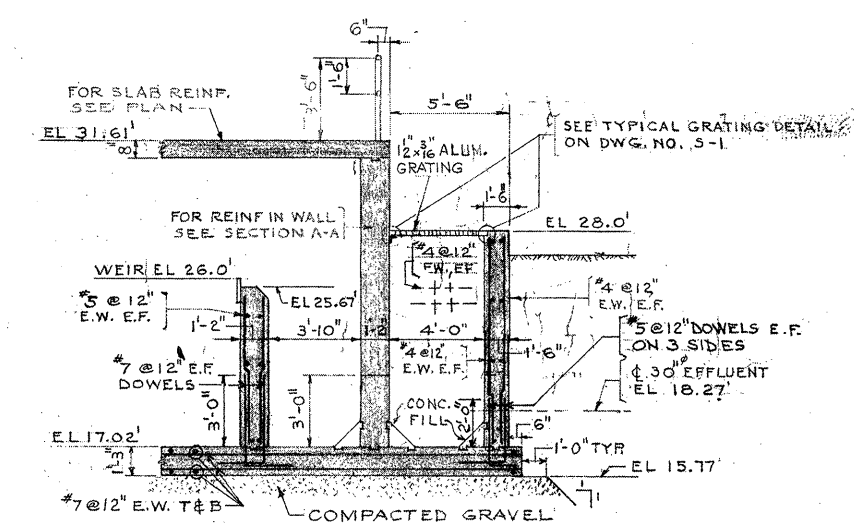


PLAN AT ELEVATION 31.61
SCALE: 1/8"=1'-0"

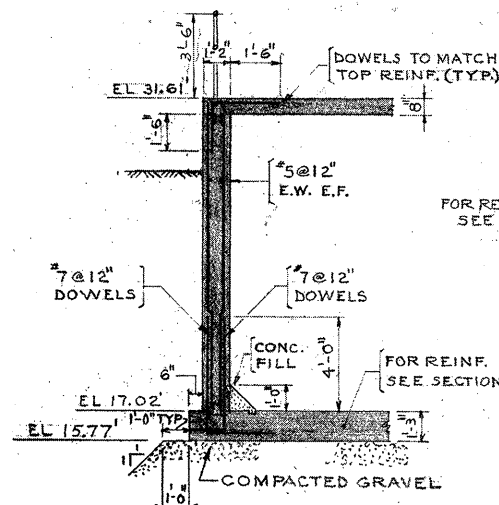
NOTES:
1. FOR TYPICAL COLUMN STRIP, MIDDLE STRIP AND BEAM REINFORCING DETAIL SEE DWG. NO. S-10
2. M.S. & C.S. ON PLAN DENOTES MIDDLE & COLUMN STRIPS.
3. THE REINFORCING IS TYPICAL IN ALL SIX PANELS AS SHOWN IN PANEL "A".



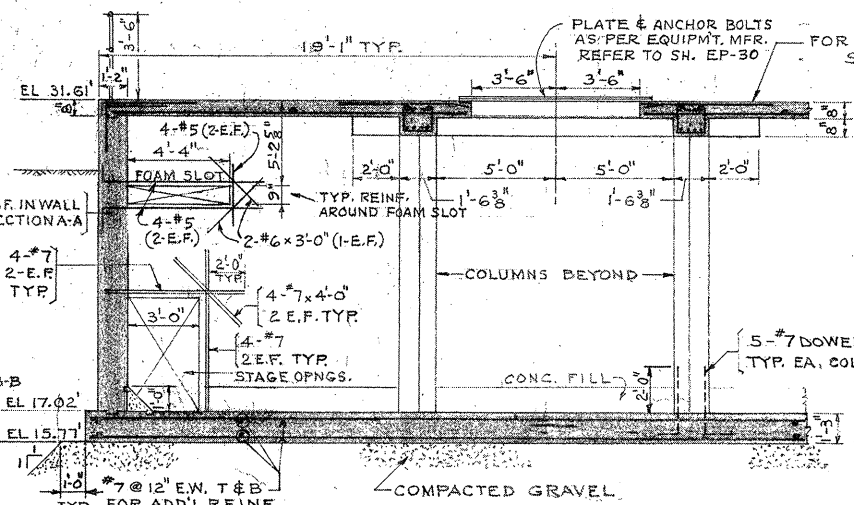
SECTION D
SCALE: 1/4"=1'-0" S-10 & S-11



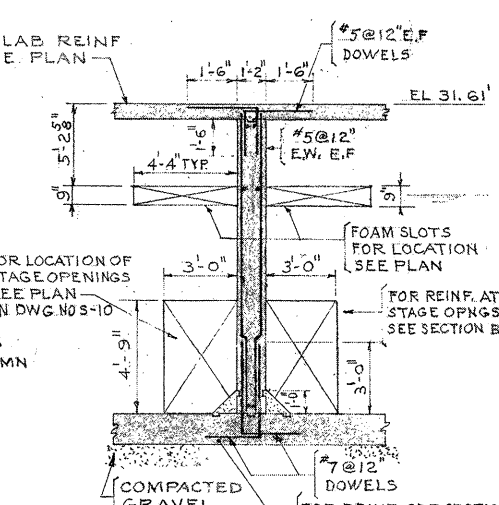
SECTION E
SCALE: 1/4"=1'-0" S-10 & S-11



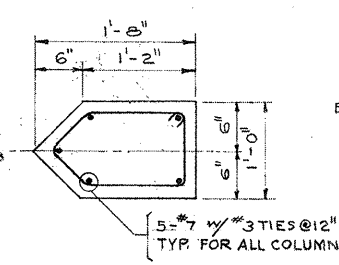
SECTION A
SCALE: 1/4"=1'-0" S-10 & S-11



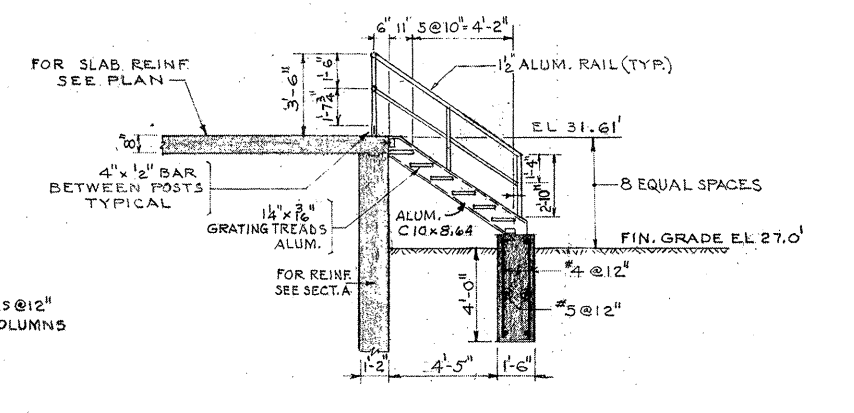
SECTION B
SCALE: 1/4"=1'-0" S-10 & S-11



SECTION C
SCALE: 1/4"=1'-0" S-10 & S-11



DETAIL A
SCALE: 1"=1'-0" S-10



SECTION F
SCALE: 1/4"=1'-0" S-11

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

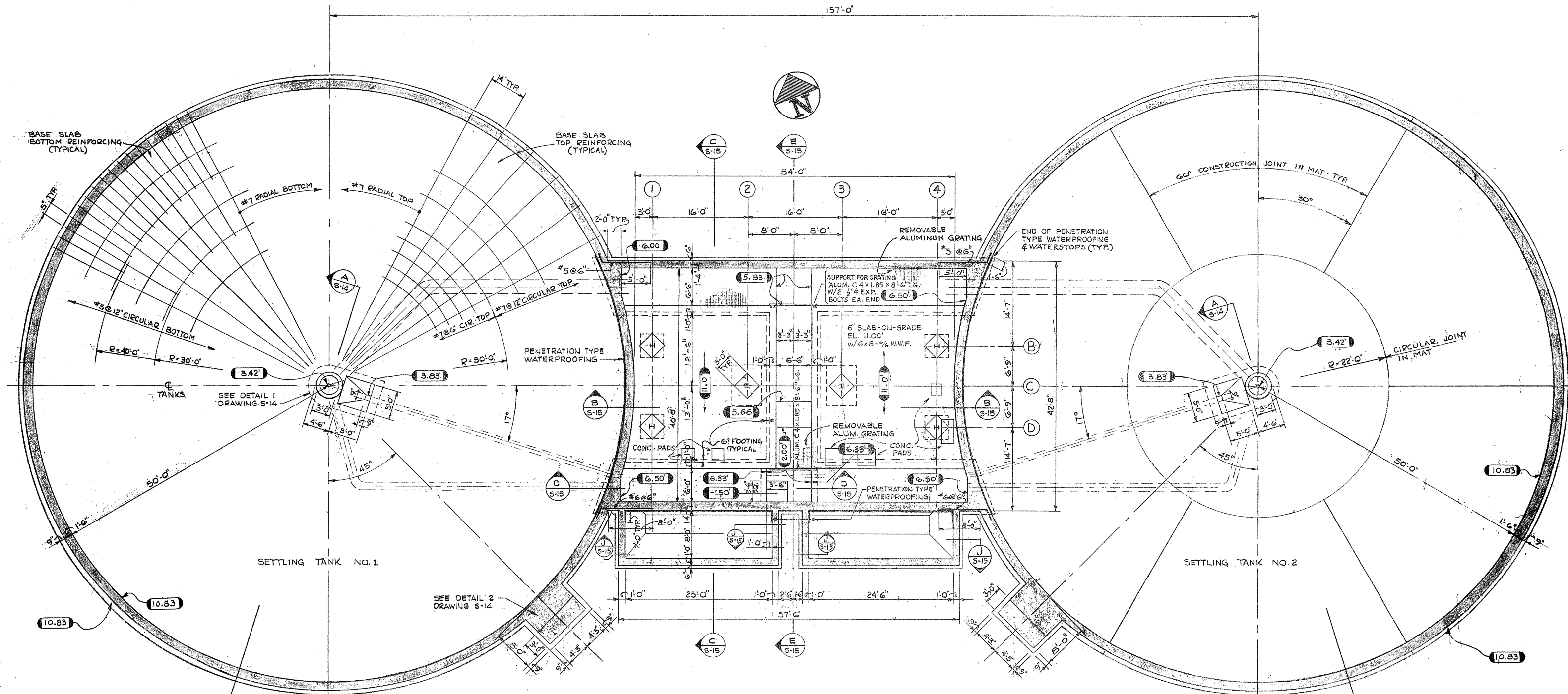
DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
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 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

SCALE AS NOTED
 CEM NO. 1981
 FIRST STAGE OXYGEN REACTOR
 STRUCTURAL
 PLAN AT ELEVATION 31.61 & SECTIONS
S-11



FIRST STAGE SETTLING TANKS
PLAN AT ELEVATION 11.00'
 SCALE: 1/8" = 1'-0"

- NOTES:**
1. REINFORCING FOR TANK NO.2 SAME AS TANK NO.1
 2. TO LOCATE CONC. PADS, SEE EQUIPMENT DRAWING NO. E P 13
 3. FOR GENERAL STRUCTURAL NOTES & TYPICAL DETAILS SEE DRAWING NO. S-1

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



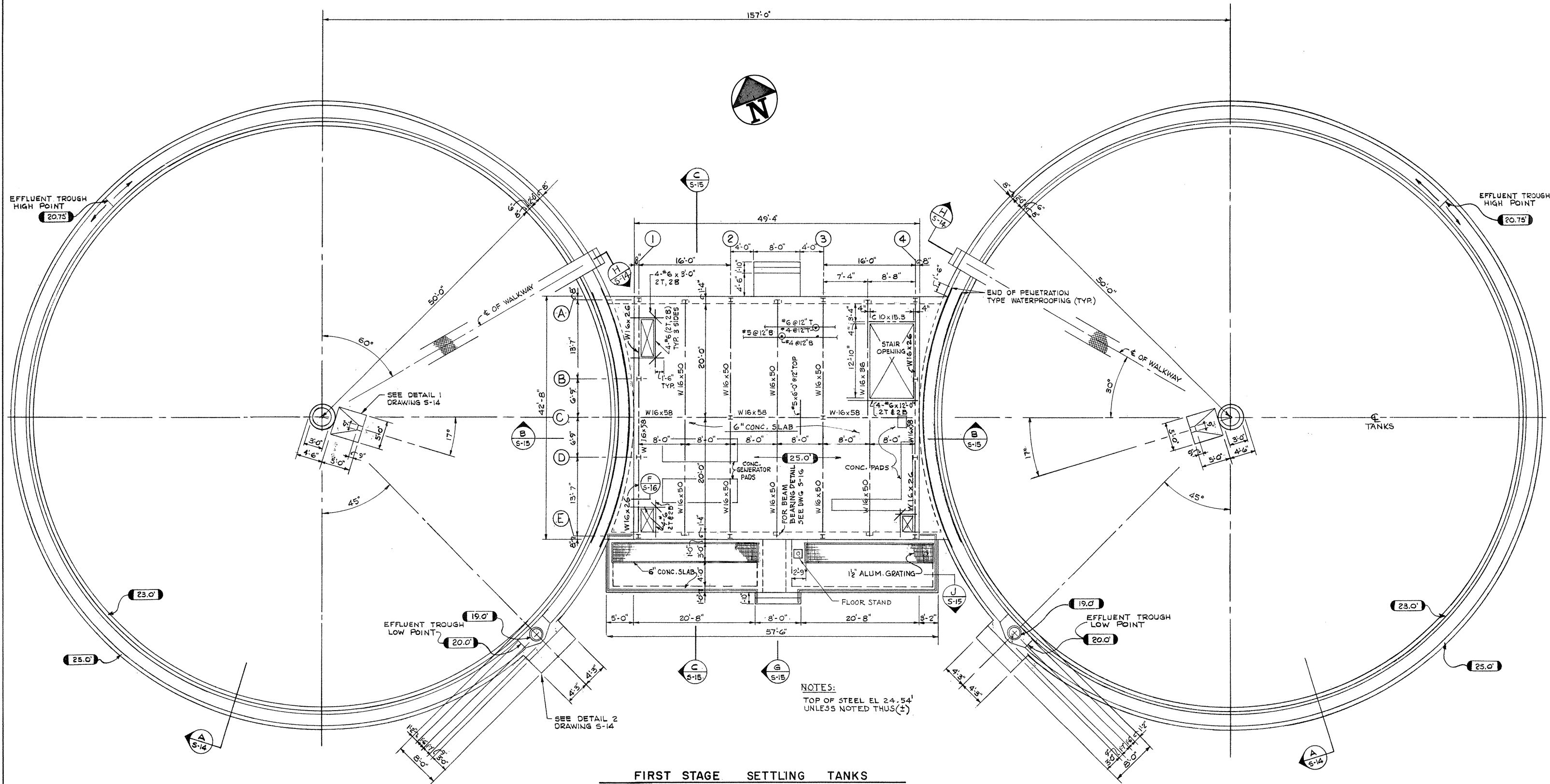
DRAWN: E. FURMAN DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
**FIRST STAGE SETTLING TANKS AND
 SLUDGE PUMPING STATION NO. 1**
STRUCTURAL
 PLAN AT ELEVATION 11:00

SCALE:
 1/8" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-12



FIRST STAGE SETTLING TANKS
PLAN AT ELEVATION 25.00'
 SCALE: 1/8" = 1'-0"

NOTES:
 TOP OF STEEL EL 24.54'
 UNLESS NOTED THUS(±)

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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



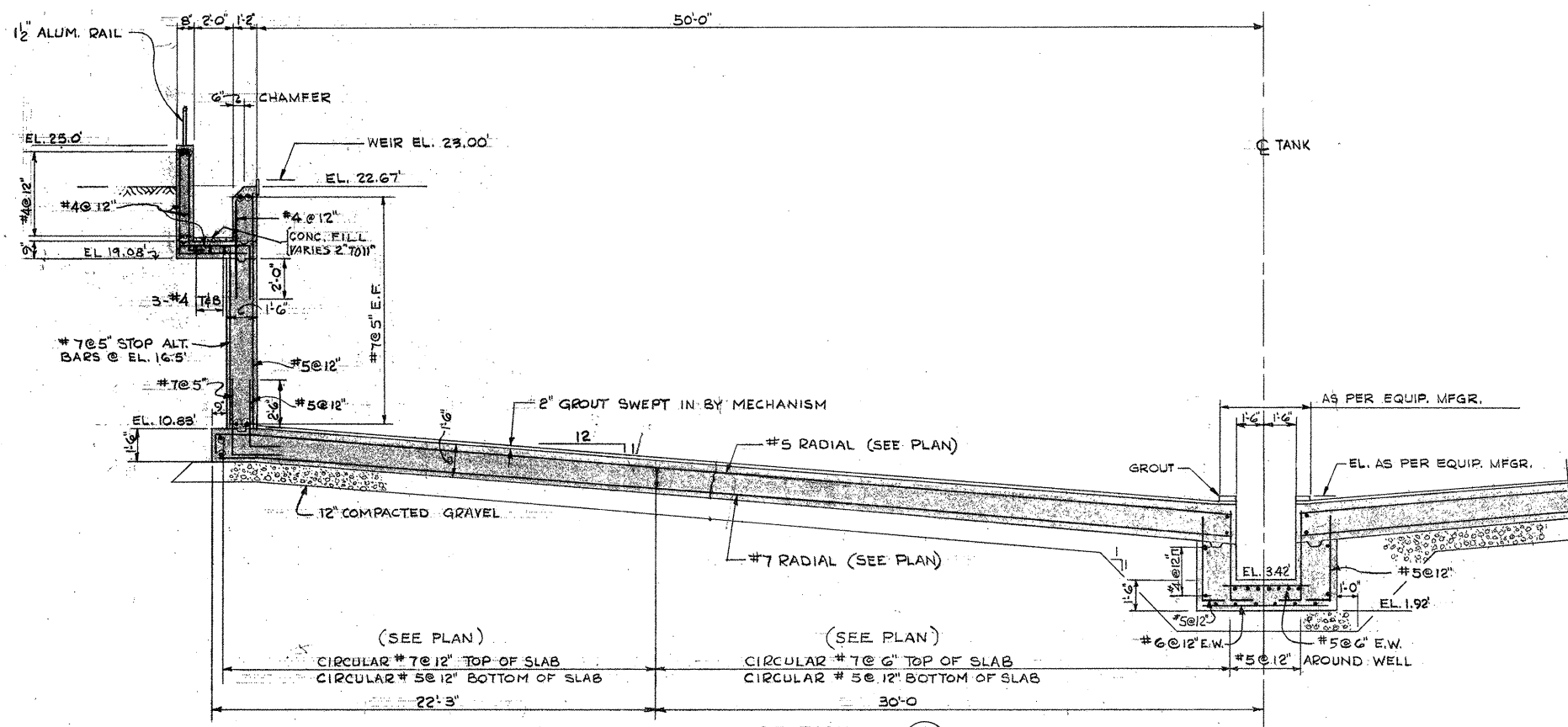
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DRAWN: E. FURMAN DESIGNED: J. SHAH
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 DATE: JULY, 1974

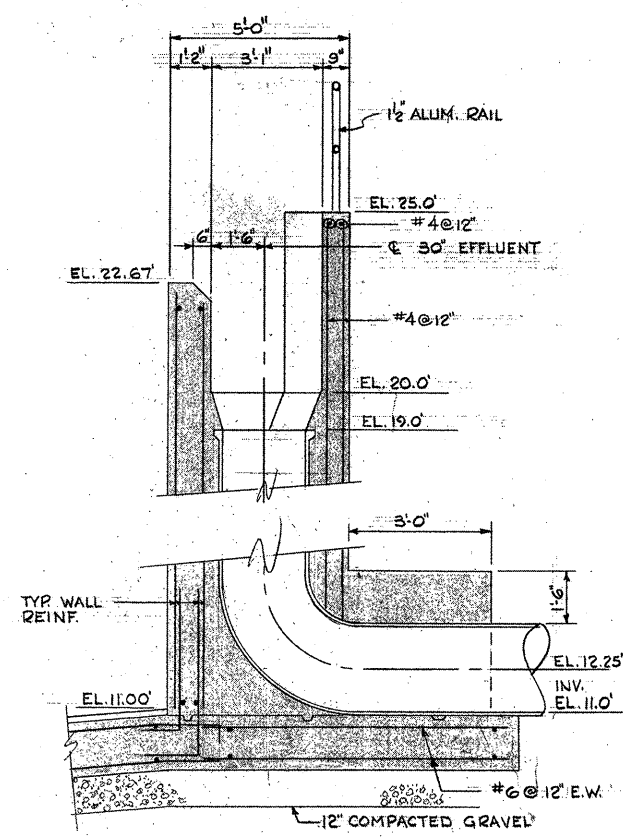
APPROVED
Charles A. King
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 FIRST STAGE SETTLING TANKS AND
 SLUDGE PUMPING STATION NO. 1
STRUCTURAL
 PLAN AT ELEVATION 25.00

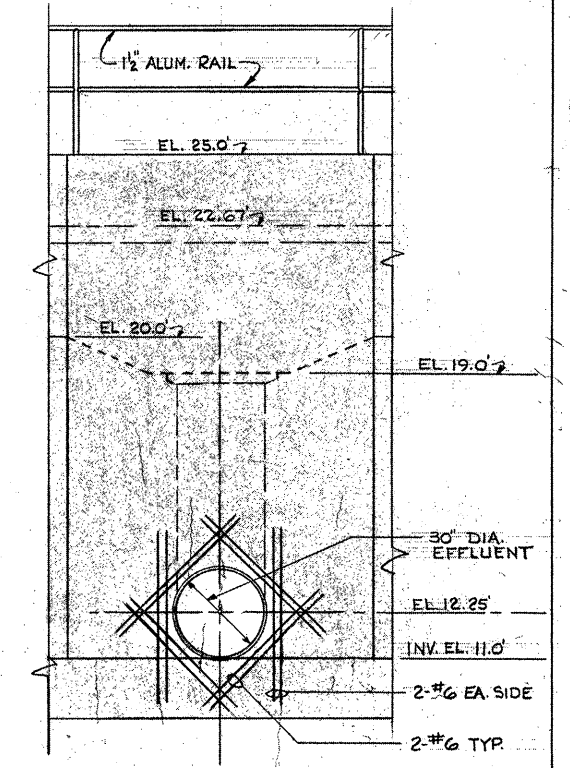
SCALE
 1/8" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-13



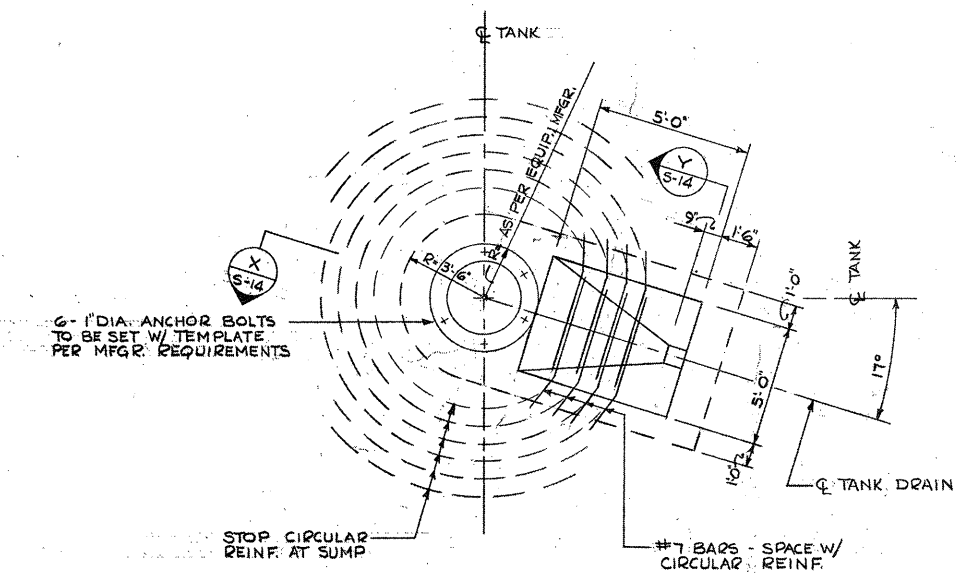
SECTION A
SCALE: 1/4" = 1'-0" S-12,13



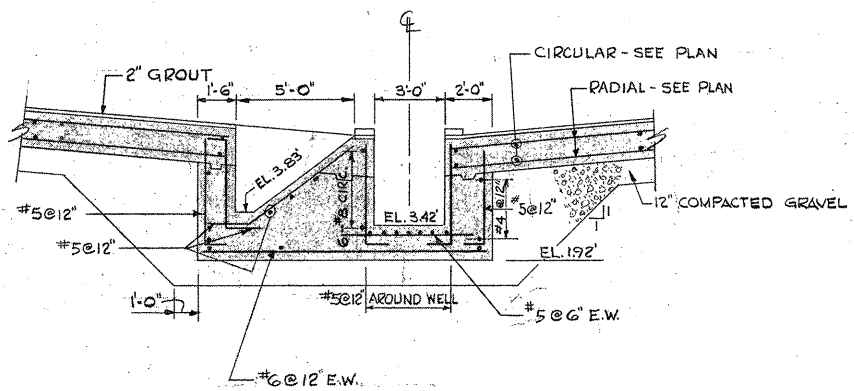
SECTION Z
SCALE: 1/2" = 1'-0" S-14



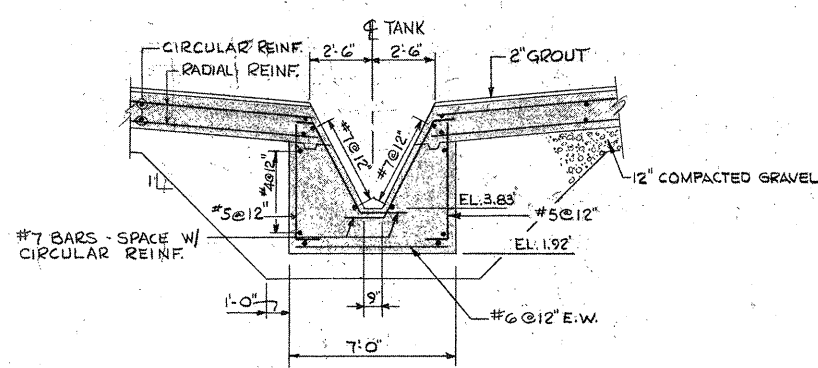
ELEVATION
SCALE: 3/8" = 1'-0"



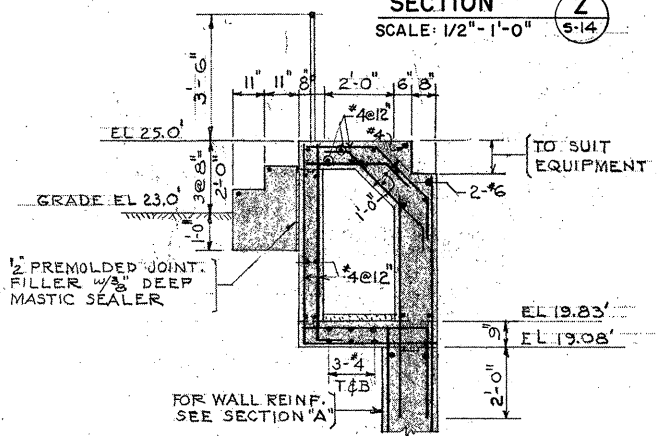
DETAIL 1
SCALE: 1/4" = 1'-0"



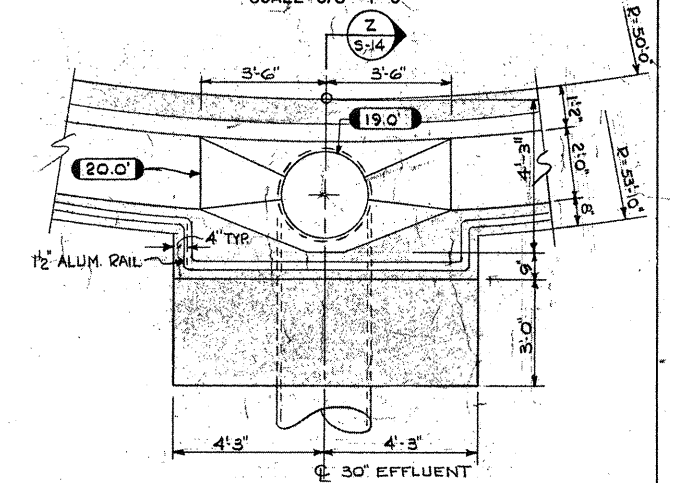
SECTION X
SCALE: 1/4" = 1'-0" S-14



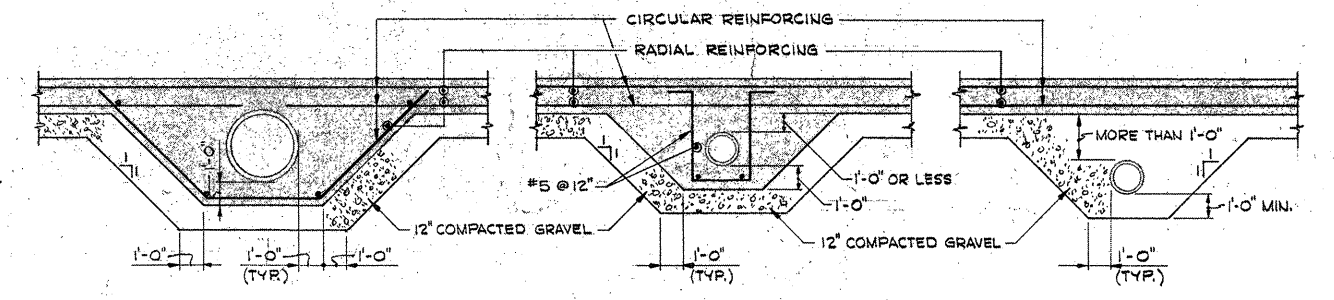
SECTION Y
SCALE: 1/4" = 1'-0" S-14



SECTION H
SCALE: 3/8" = 1'-0" S-13



DETAIL 2
SCALE: 3/8" = 1'-0"



PIPE ENCASUREMENT DETAILS
SCALE: 1/4" = 1'-0"

ATTENTION
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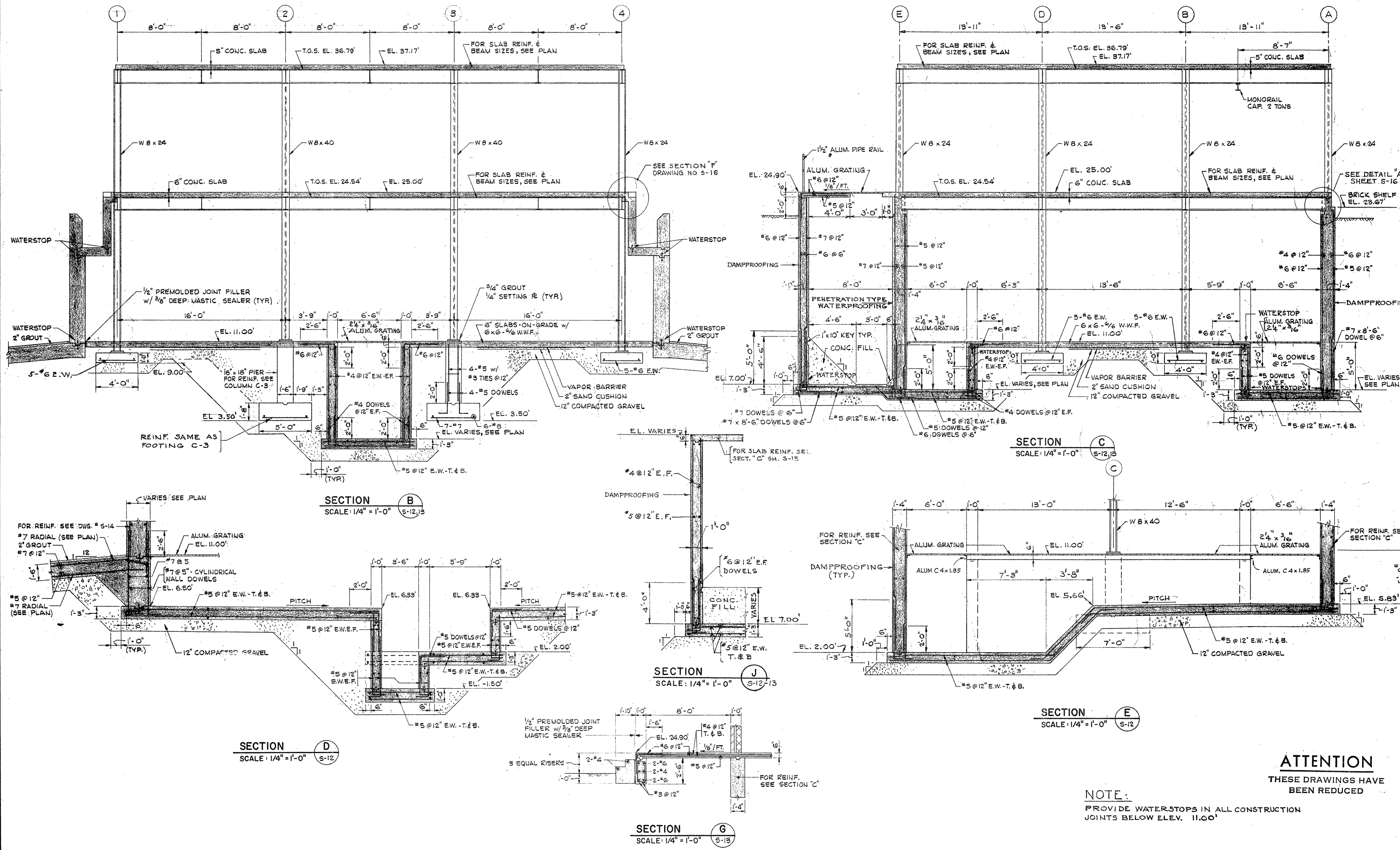


DRAWN: E. FURMAN DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
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 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 FIRST STAGE SETTLING TANKS
STRUCTURAL SECTIONS

SCALE - AS SHOWN
 CEM NO. 1981
 DRAWING NO.
S-14



ATTENTION
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NOTE:
PROVIDE WATERSTOPS IN ALL CONSTRUCTION JOINTS BELOW ELEV. 11.00'

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



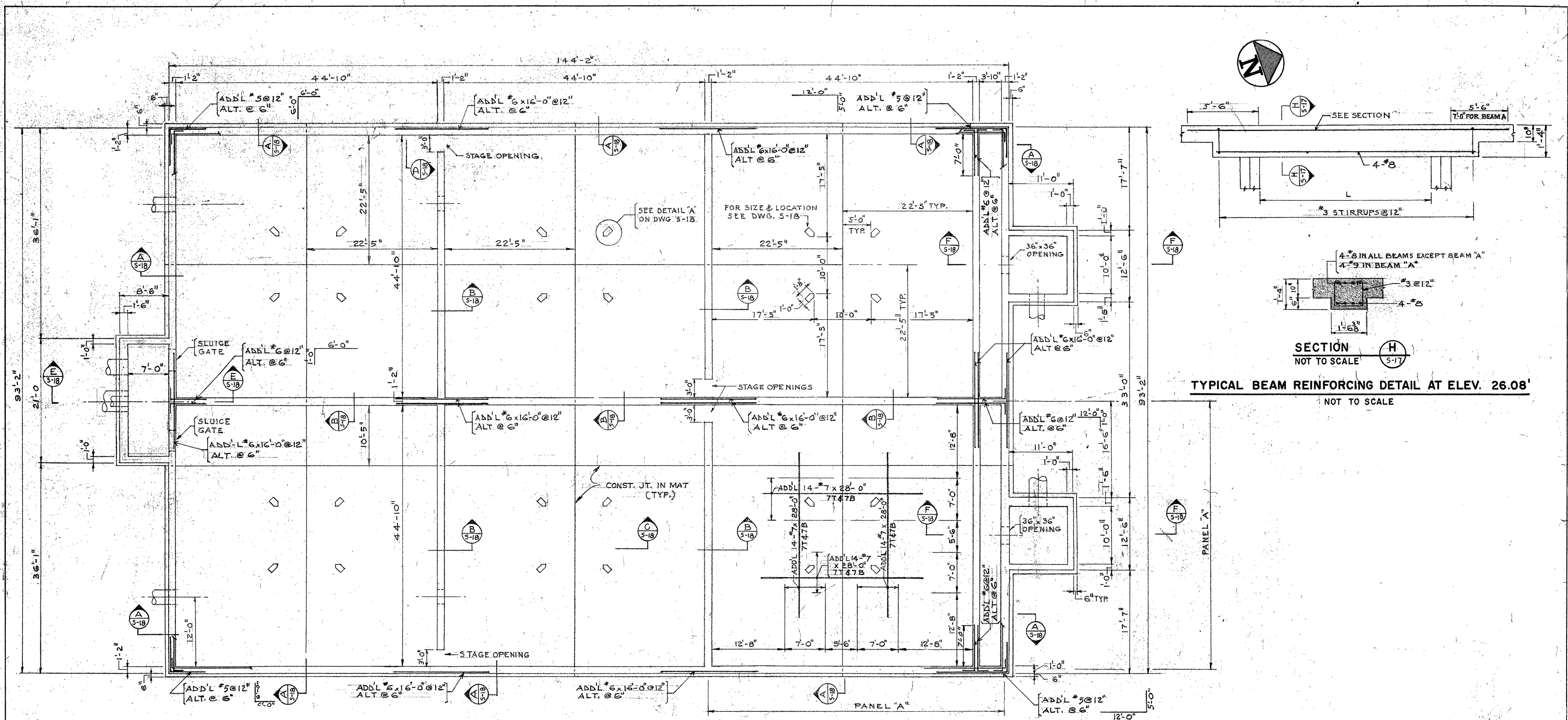
DRAWN: E. FURMAN DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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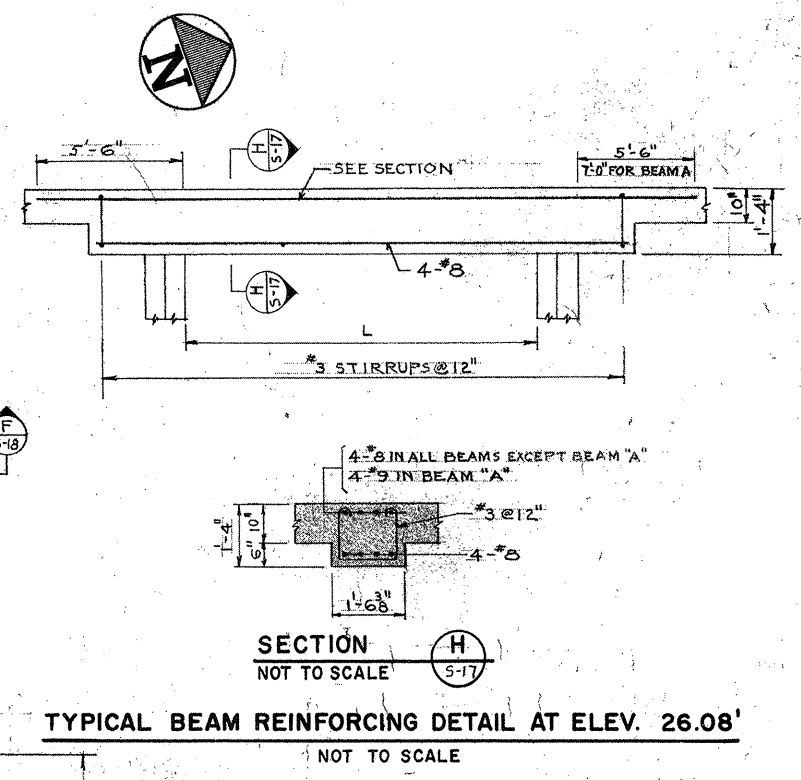
APPROVED
Charles C. Perry
 CITY OF TAUNTON

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WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE PUMPING STATION NO. 1
STRUCTURAL SECTIONS

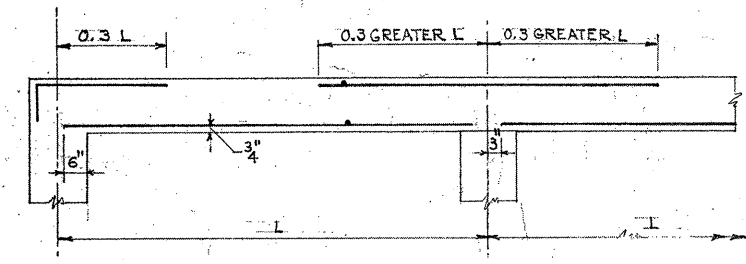
SCALE:
 1/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-15



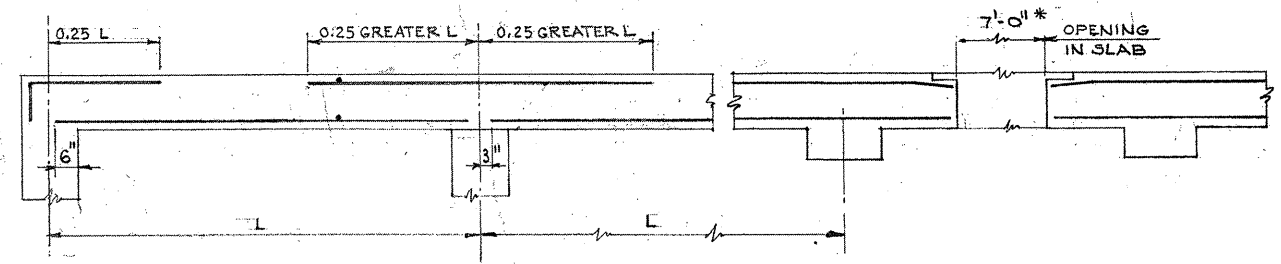
PLAN AT ELEVATION 10.67
SCALE: 1/8" = 1'-0"



SECTION H
NOT TO SCALE
TYPICAL BEAM REINFORCING DETAIL AT ELEV. 26.08'
NOT TO SCALE



TYP. COLUMN STRIP REINF. DETAIL AT EL. 26.08'



TYP. MIDDLE STRIP REINF. DETAIL AT EL. 26.08'

*TO BE VERIFIED BY EQUIPMENT MFR.

NOTES:
1. FOR TYPICAL DETAILS & GENERAL NOTES SEE DWG S-1

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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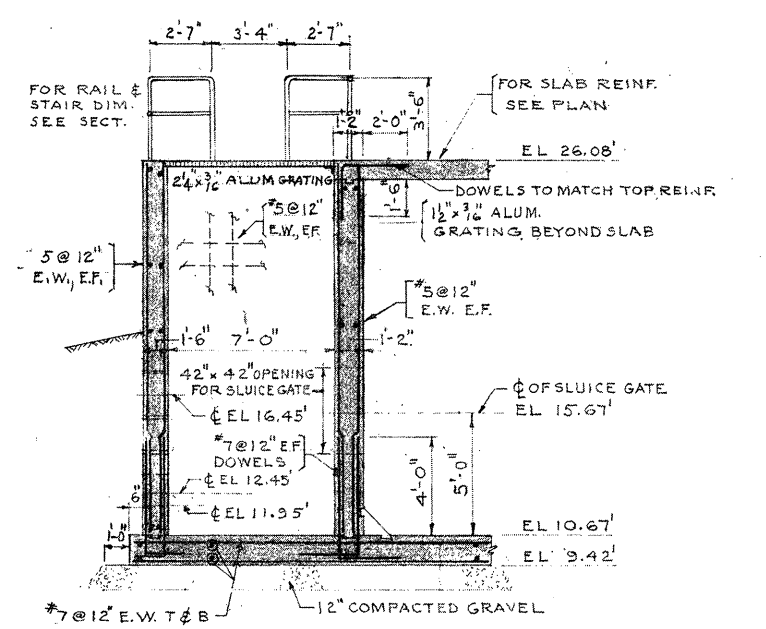
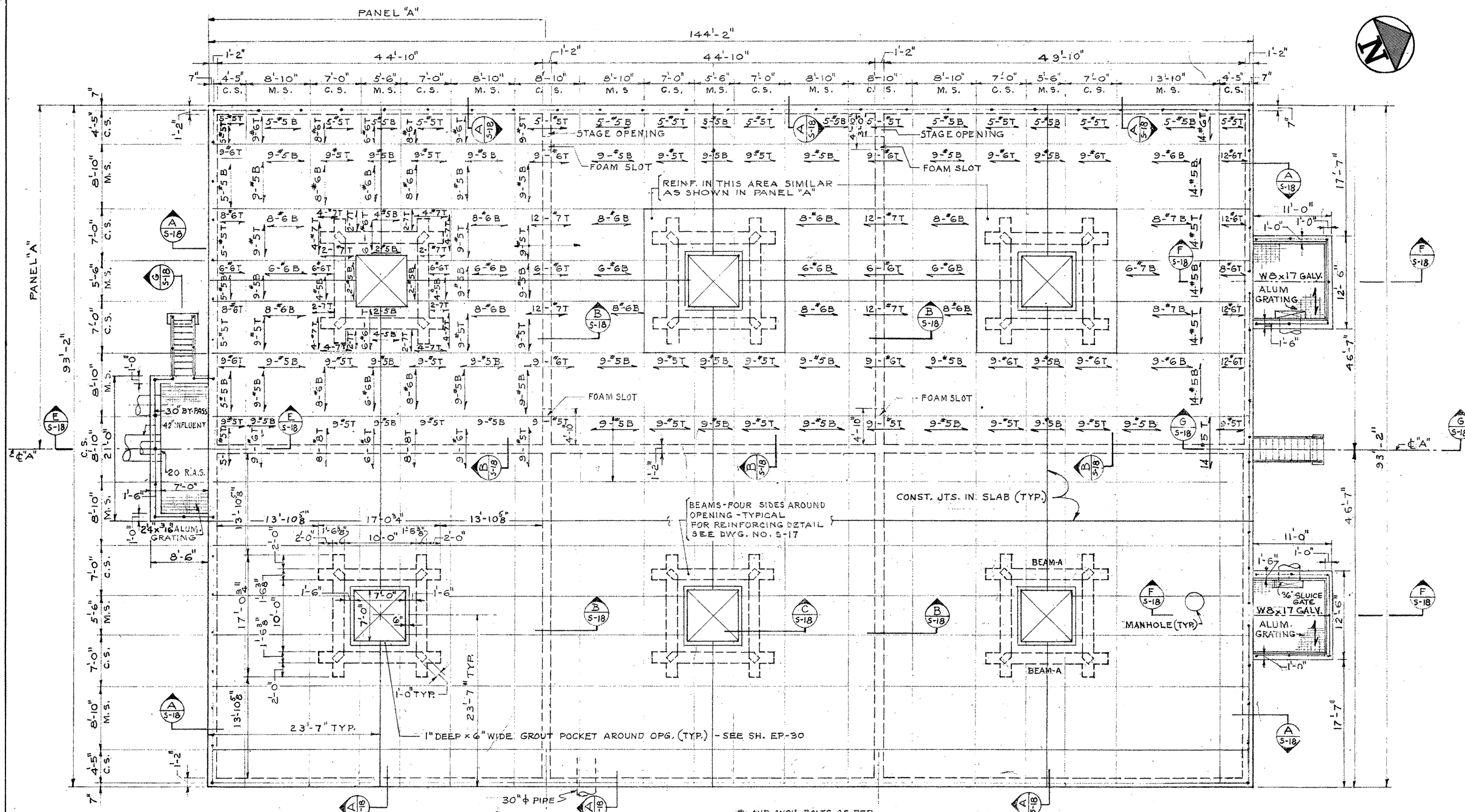
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SECOND STAGE OXYGEN REACTOR

STRUCTURAL
 PLAN AT ELEVATION 10.67 AND DETAILS

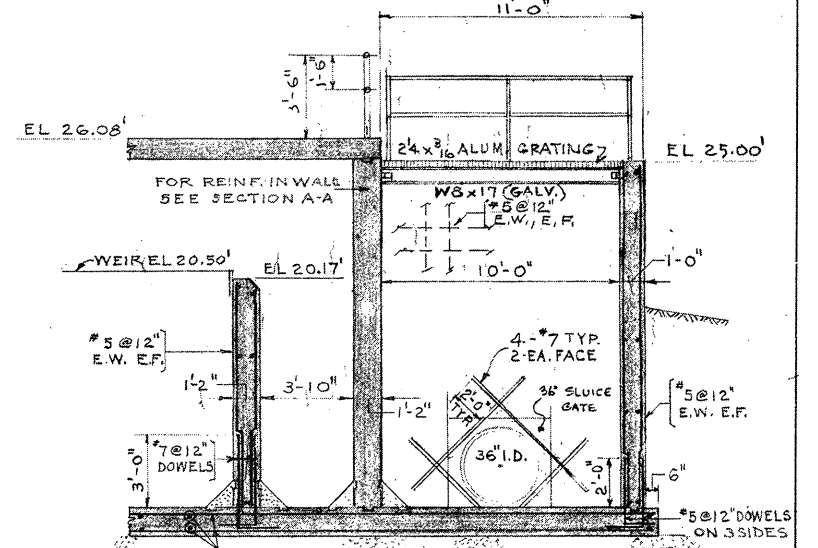
SCALE:
 1/8" = 1'-0"

CEM NO. 1981

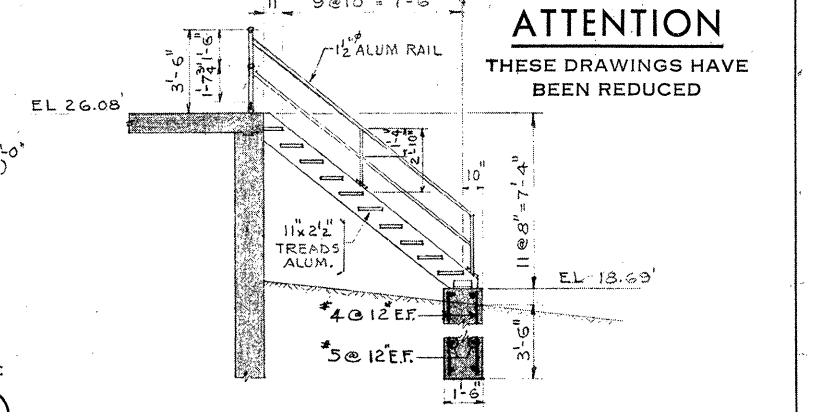
DRAWING NO.
S-17



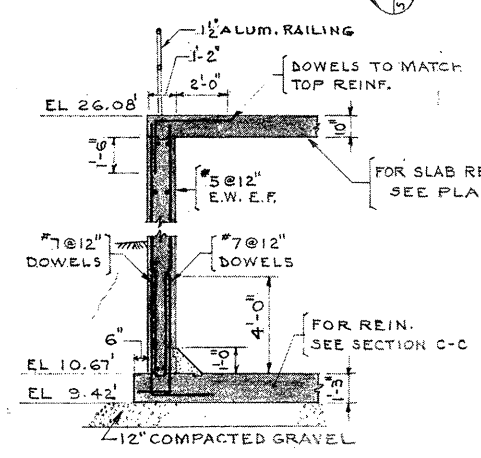
SECTION E
SCALE: 1/4" = 1'-0"
S-17 & 18



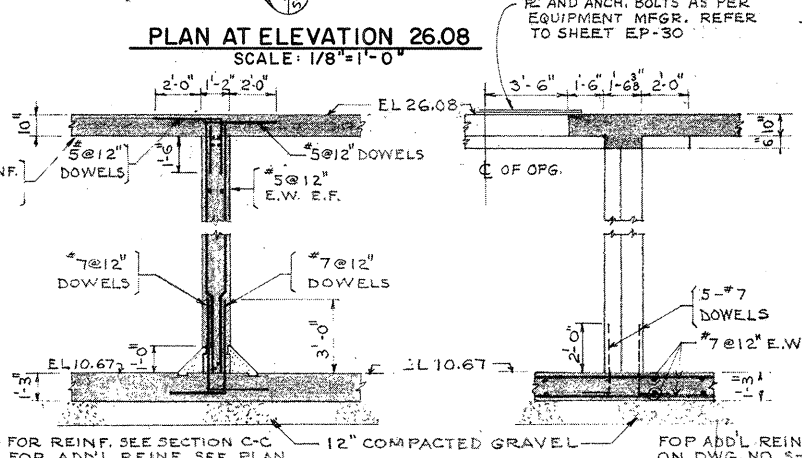
SECTION F
SCALE: 1/4" = 1'-0"
S-17 & 18



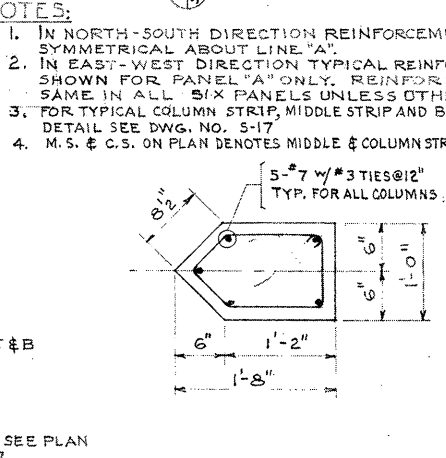
SECTION G
SCALE: 1/4" = 1'-0"
S-18



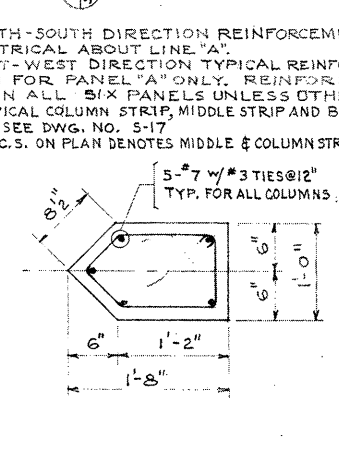
SECTION A
SCALE: 1/4" = 1'-0"
S-17 & 18



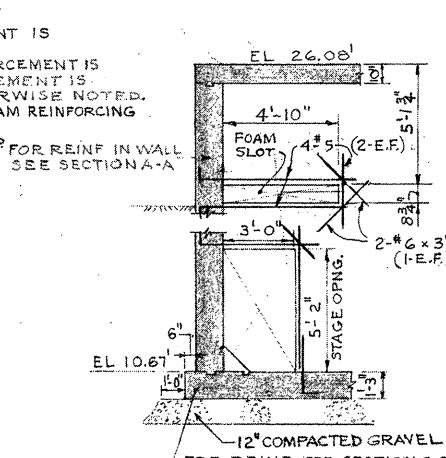
SECTION B
SCALE: 1/4" = 1'-0"
S-17 & 18



SECTION C
SCALE: 1/4" = 1'-0"
S-17 & 18



DETAIL A
SCALE: 1" = 1'-0"
S-17



SECTION D
SCALE: 1/4" = 1'-0"
S-17

- NOTES:
1. IN NORTH-SOUTH DIRECTION REINFORCEMENT IS SYMMETRICAL ABOUT LINE "A".
 2. IN EAST-WEST DIRECTION TYPICAL REINFORCEMENT IS SHOWN FOR PANEL "A" ONLY. REINFORCEMENT IS SAME IN ALL SIX PANELS UNLESS OTHERWISE NOTED.
 3. FOR TYPICAL COLUMN STRIP, MIDDLE STRIP AND BEAM REINFORCING DETAIL SEE DWG. NO. S-17.
 4. M.S. & C.S. ON PLAN DENOTES MIDDLE & COLUMN STRIP FOR REIN. IN WALL SEE SECTION A-A.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

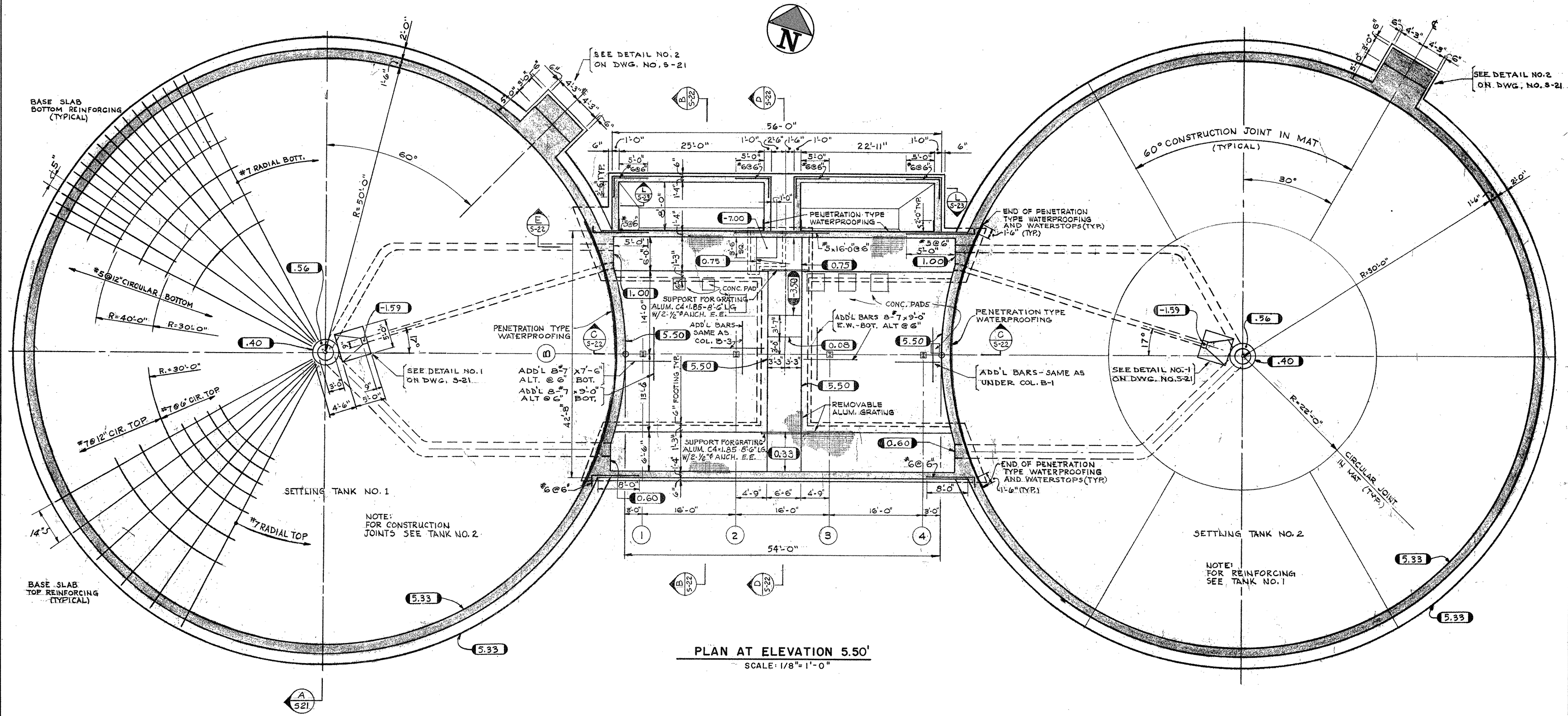
CE MAGUIRE, INC.
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APPROVED: *Charles G. Piny*
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

SECOND STAGE OXYGEN REACTOR
 STRUCTURAL
 PLAN AT ELEVATION 26.08 & SECTIONS

SCALE: AS NOTED
 CEM NO. 1981
 DRAWING NO. **S-18**



PLAN AT ELEVATION 5.50'
SCALE: 1/8" = 1'-0"

- NOTE:
1. REINFORCING FOR TANK NO. 2 SAME AS TANK NO. 1.
 2. TO LOCATE CONC. PADS SEE EQUIPMENT DRAWINGS.
 3. FOR GENERAL STRUCTURAL NOTES & TYPICAL DETAILS SEE DRAWING NO. S-1.
 4. CORNER BARS NOT SHOWN ON PLAN ARE TO BE PROVIDED AS PER TYPICAL DETAIL ON DWG. NO. S-1.

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



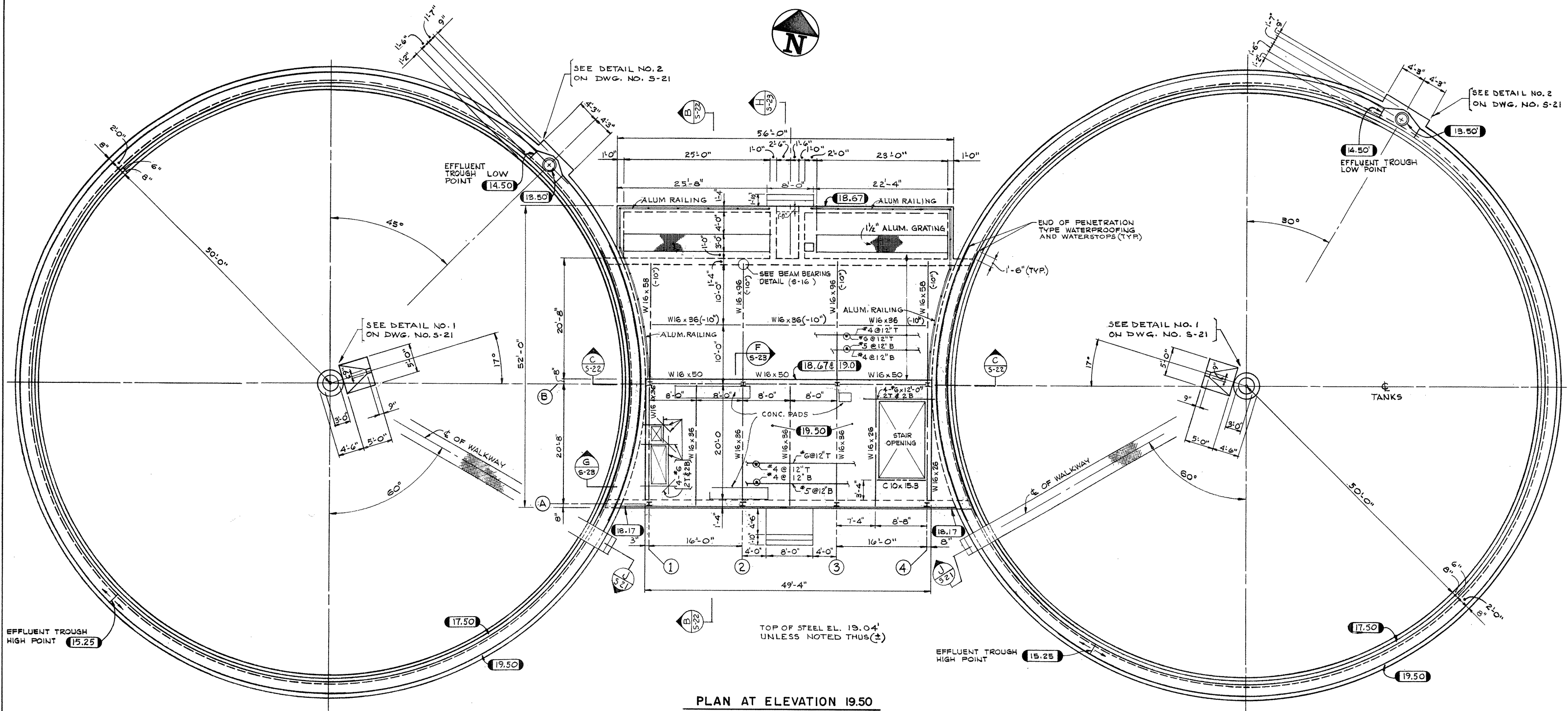
DRAWN: K. STANLEY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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Charles A. Kelly
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CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SECOND STAGE SETTLING TANKS AND
 SLUDGE PUMPING STATION NO. 2
STRUCTURAL
 PLAN AT ELEVATION 5.50'

SCALE:
 1/8" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-19



PLAN AT ELEVATION 19.50
SCALE: 1/8" = 1'-0"

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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



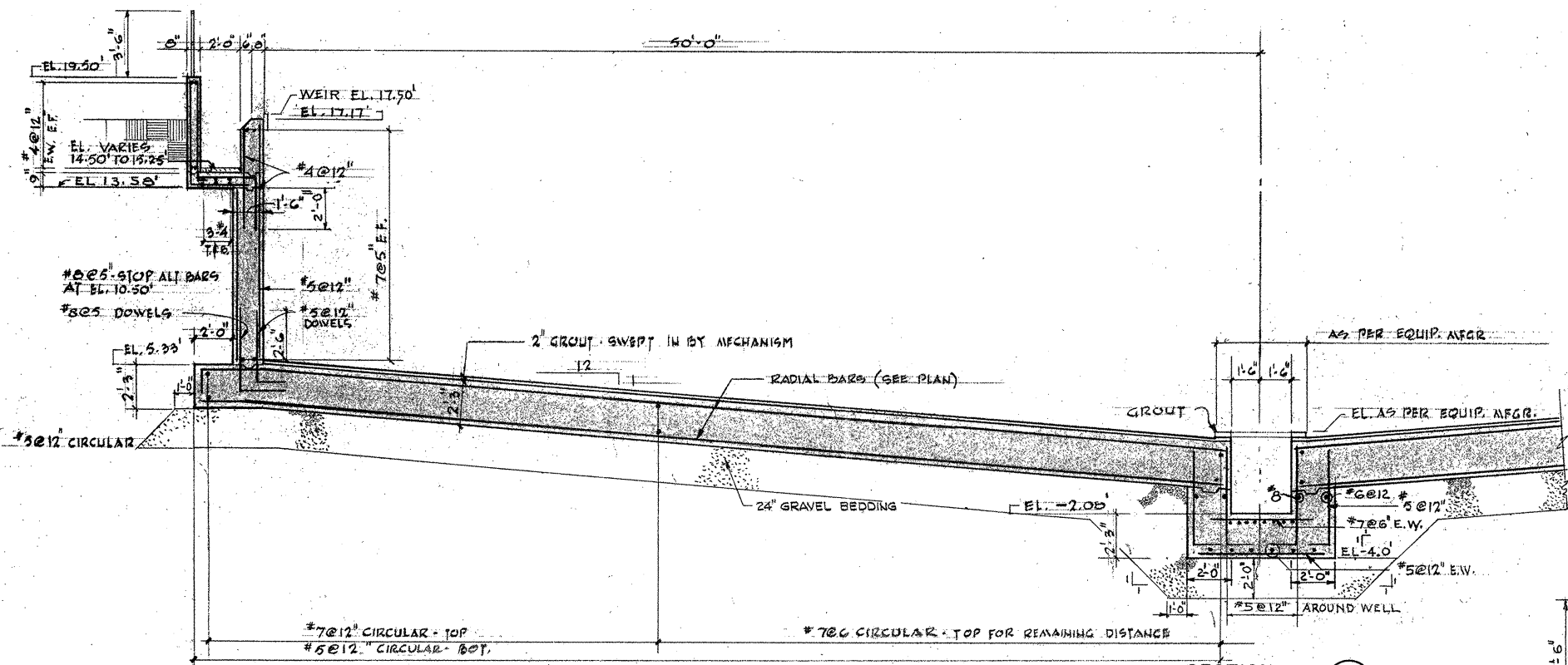
DRAWN: K. STANLEY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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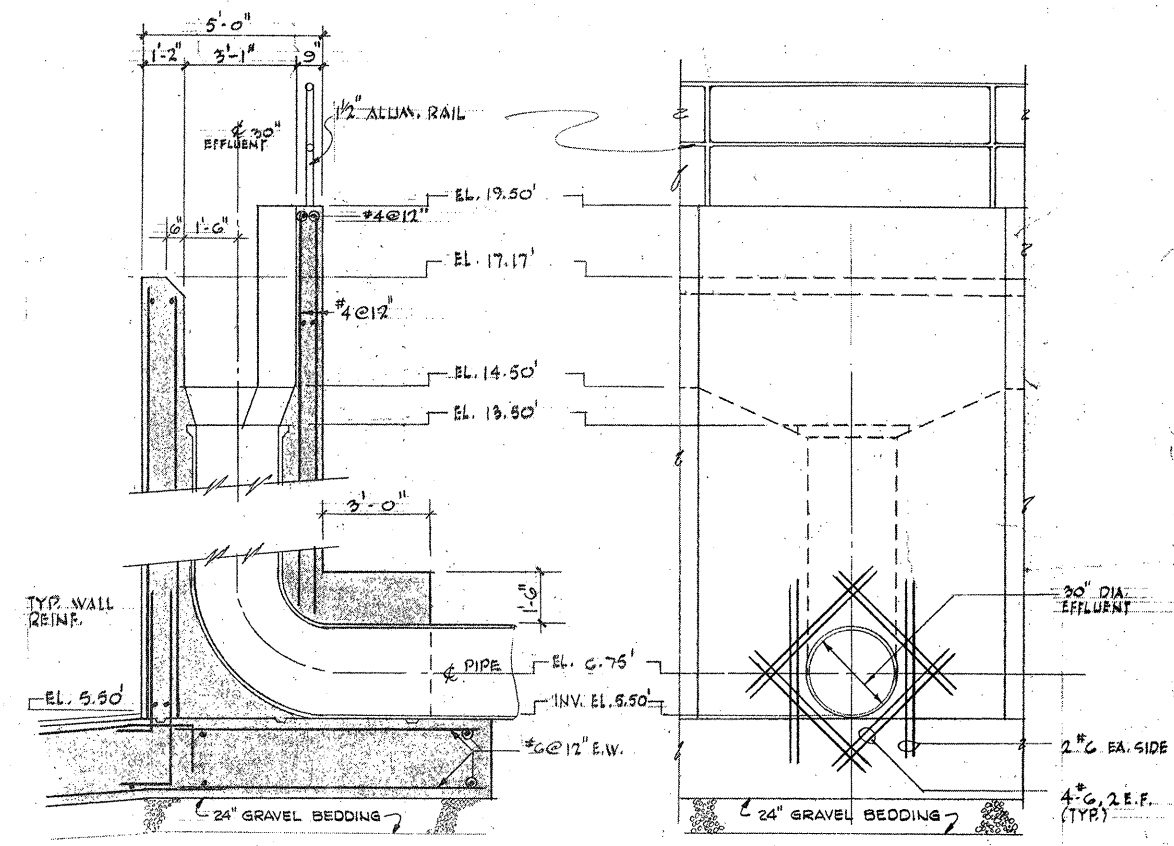
APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SECOND STAGE SETTLING TANKS AND
 SLUDGE PUMPING STATION NO. 2
STRUCTURAL
 PLAN AT ELEVATION 19.50

SCALE
 1/8" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-20

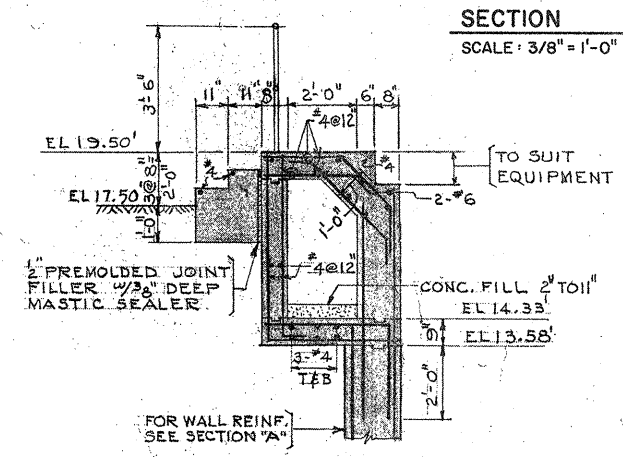


SECTION A
SCALE: 1/4" = 1'-0"
S-19

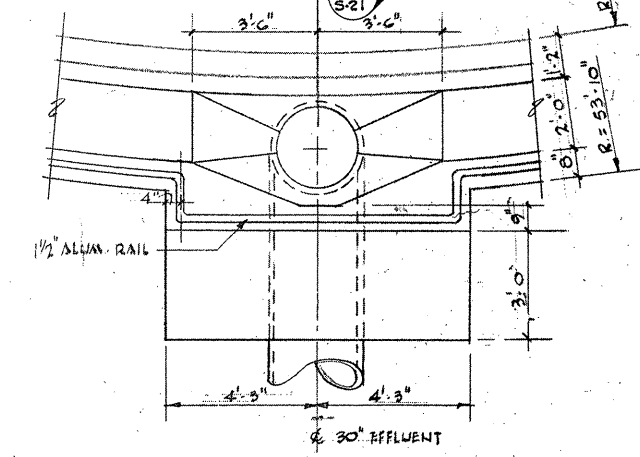


SECTION Z
SCALE: 3/8" = 1'-0"
S-21

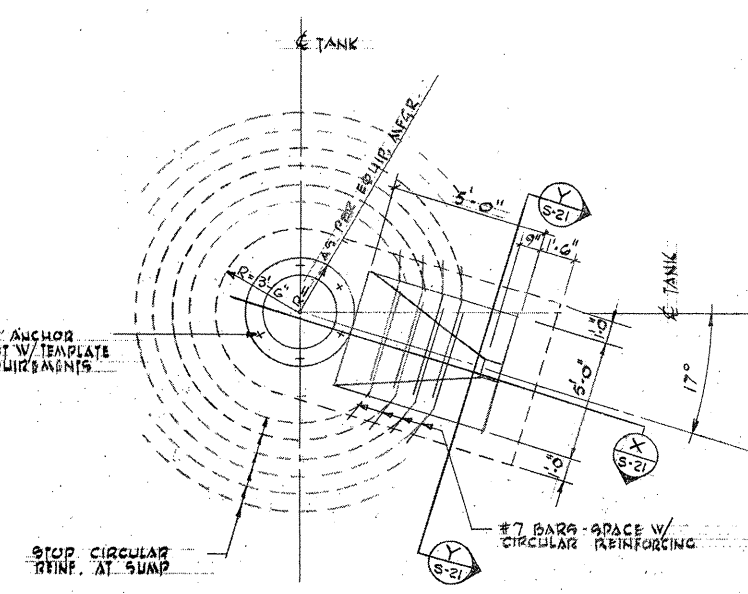
ELEVATION Z
SCALE: 3/8" = 1'-0"
S-21



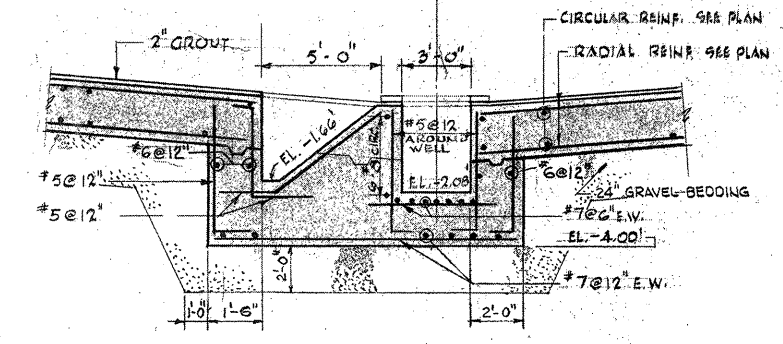
SECTION J
SCALE: 3/8" = 1'-0"
S-20



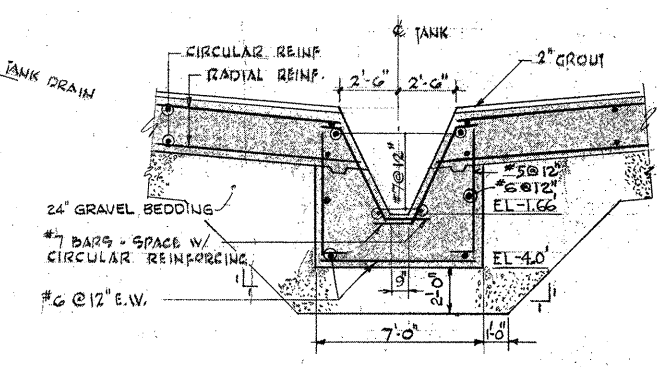
DETAIL - 2
SCALE: 3/8" = 1'-0"



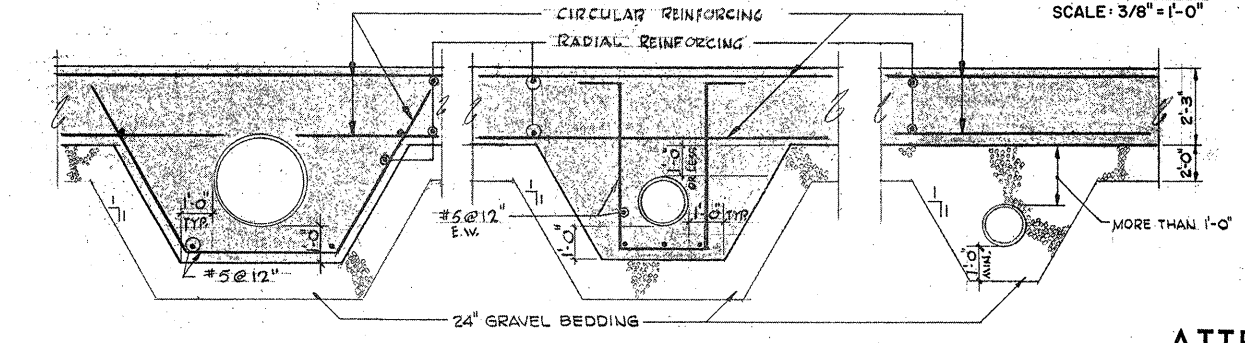
DETAIL - 1
SCALE: 1/4" = 1'-0"



SECTION X
SCALE: 1/4" = 1'-0"
S-21



SECTION Y
SCALE: 1/4" = 1'-0"
S-21



PIPE ENCASEMENT DETAIL
SCALE: 3/8" = 1'-0"

ATTENTION
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NOTE:
24" GRAVEL BEDDING REQUIRED BENEATH SECOND STAGE SETTLING TANKS AND SLUDGE PUMPING STATION NO. 2.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

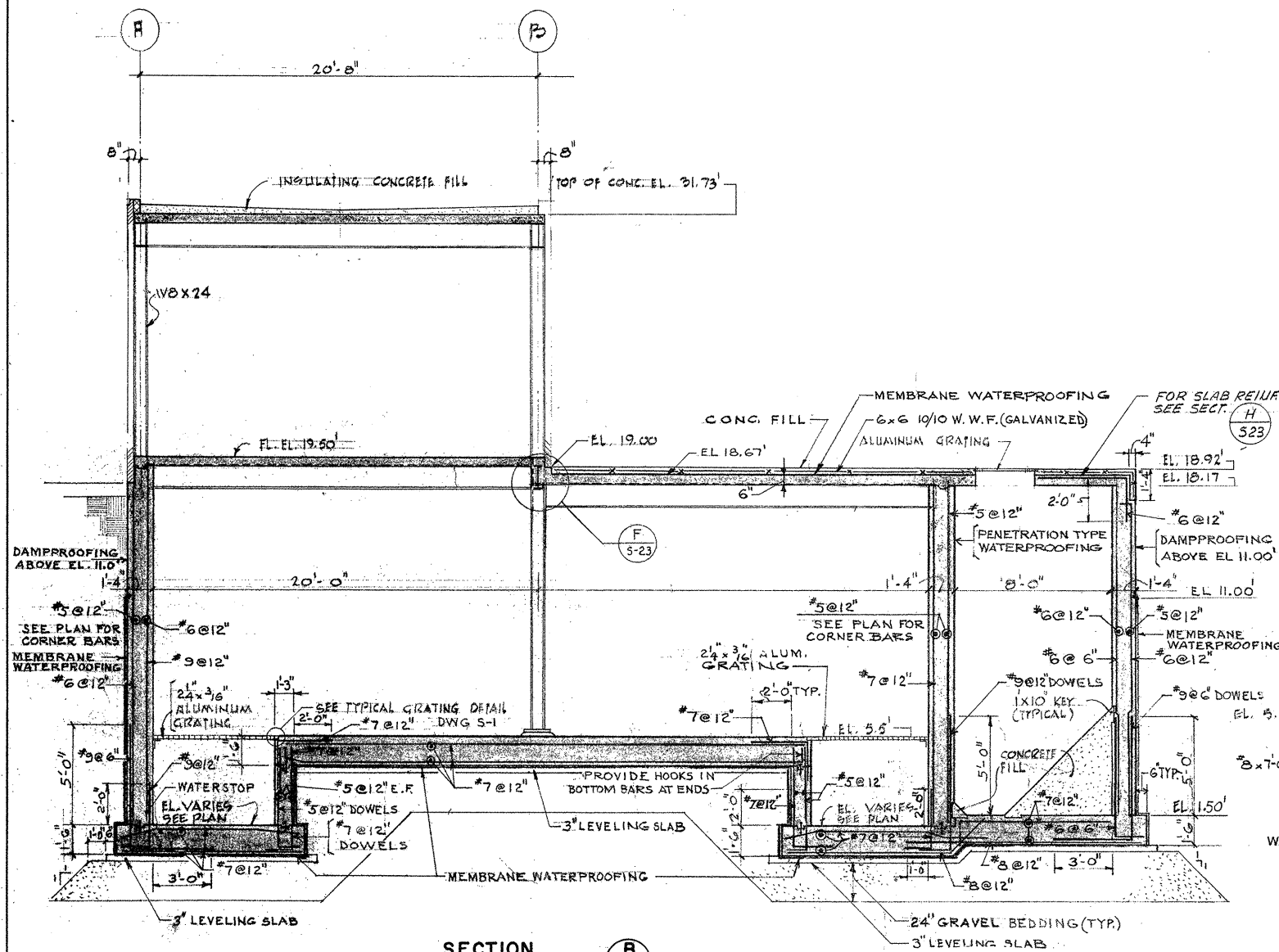


DRAWN: J. MERCURIO DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
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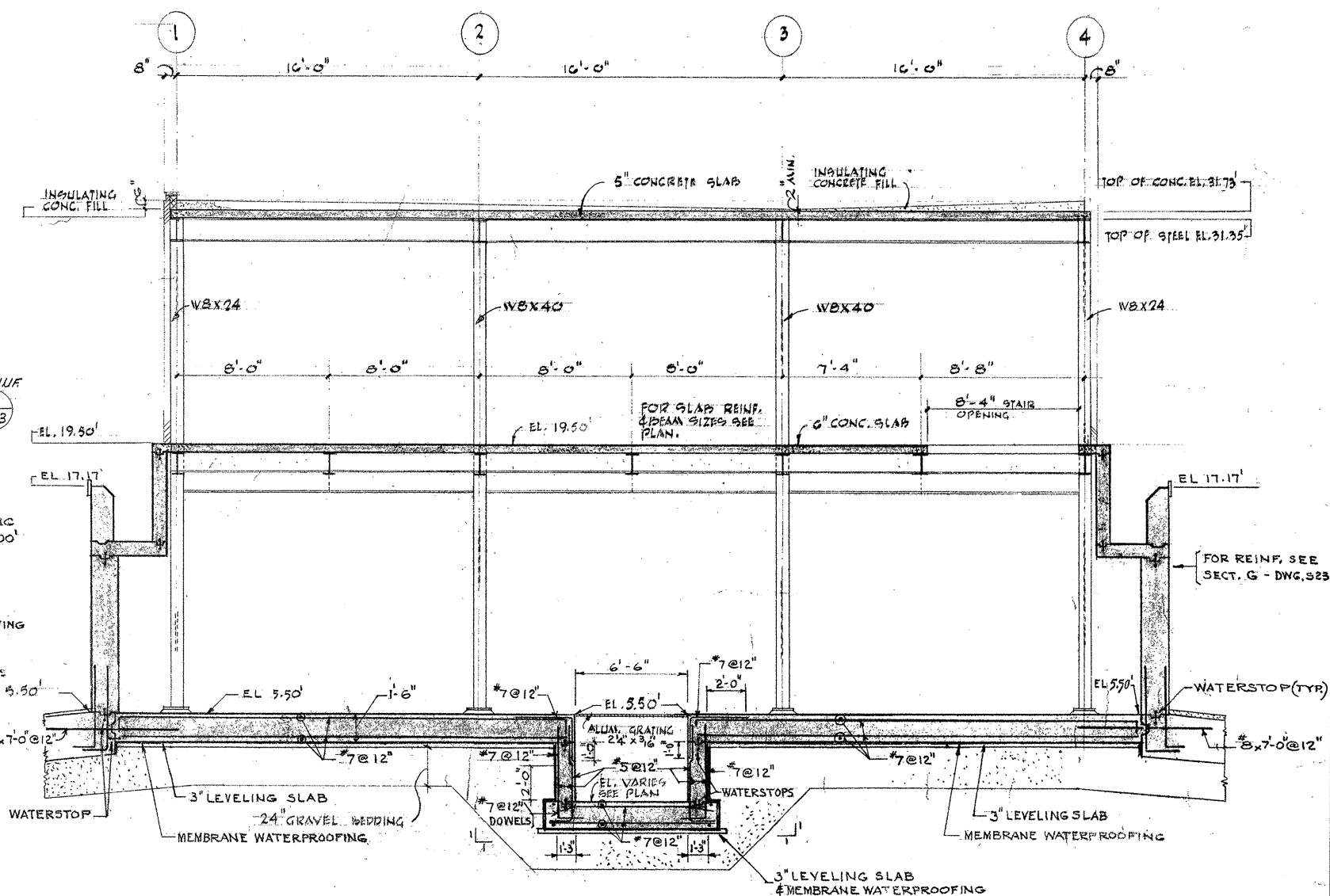
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 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SECOND STAGE SETTLING TANKS
STRUCTURAL
 SECTIONS & DETAILS

SCALE AS NOTED
 CEM NO. 1981
 DRAWING NO.
S-21

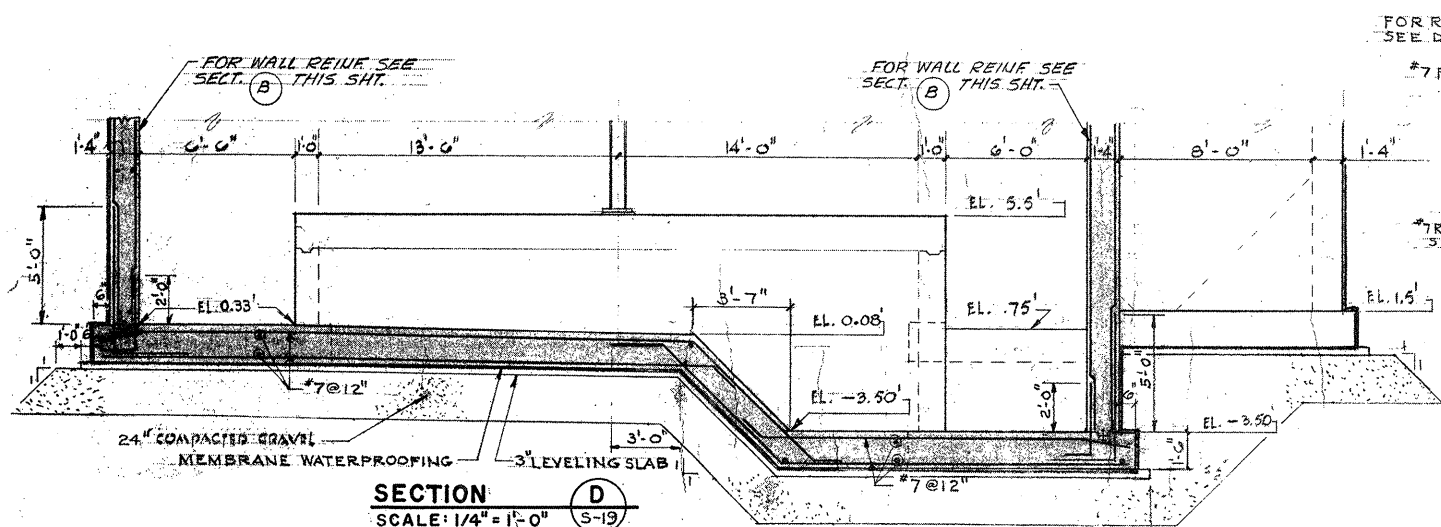


SECTION B
SCALE: 1/4" = 1'-0" S-19-20

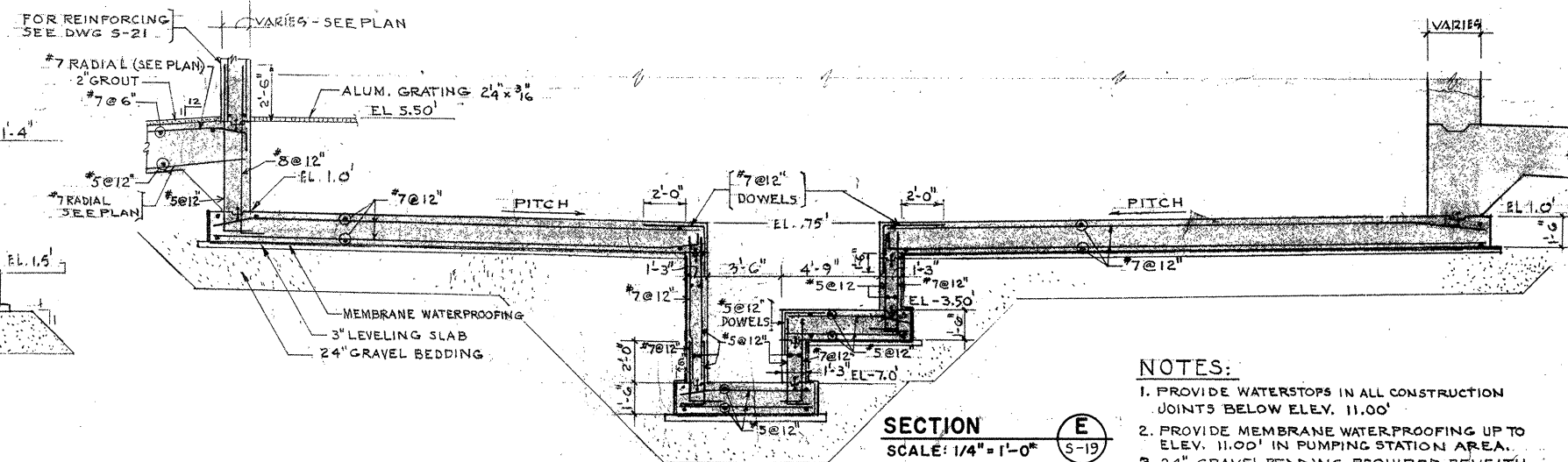


SECTION C
SCALE: 1/4" = 1'-0" S-19-20

ATTENTION
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BEEN REDUCED



SECTION D
SCALE: 1/4" = 1'-0" S-19



SECTION E
SCALE: 1/4" = 1'-0" S-19

- NOTES:**
1. PROVIDE WATERSTOPS IN ALL CONSTRUCTION JOINTS BELOW ELEV. 11.00'
 2. PROVIDE MEMBRANE WATERPROOFING UP TO ELEV. 11.00' IN PUMPING STATION AREA.
 3. 24" GRAVEL BEDDING REQUIRED BENEATH SLUDGE PUMPING STATION NO.2 AND SECOND STAGE SETTLING TANKS.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. MERCURIO DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

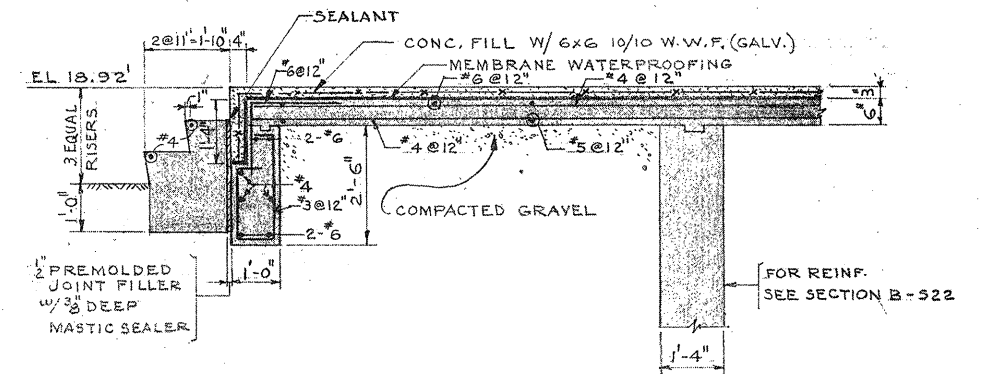
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 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Perry
 CITY OF TAUNTON

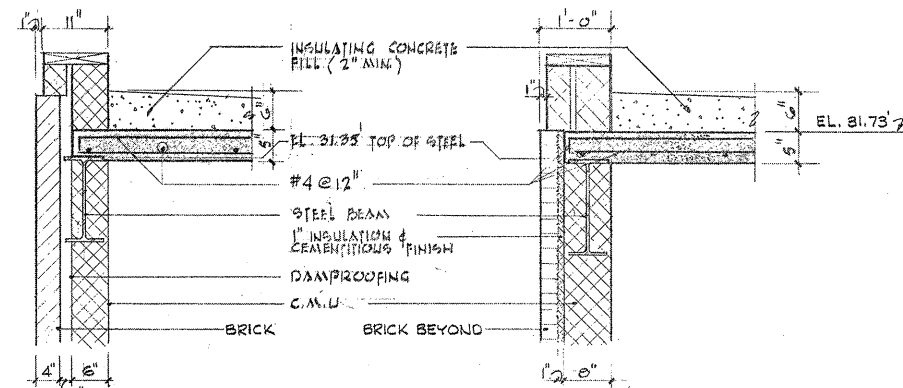
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE PUMPING STATION NO.2
STRUCTURAL SECTIONS

SCALE:
 1/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-22

STEEL COLUMN SCHEDULE				
COLUMN NO.	A1 A4	A2 A3	B1 B4	B2 B3
ELEVATION				
EL. 21.72'				
EL. 19.50'				
EL. 5.50'				
PAGE PLATES	12' x 3/4" x 1'-1"	12' x 3/4" x 1'-1"	15' x 1" x 1'-1"	
ANCHOR BOLTS	4 - 3/4" φ			

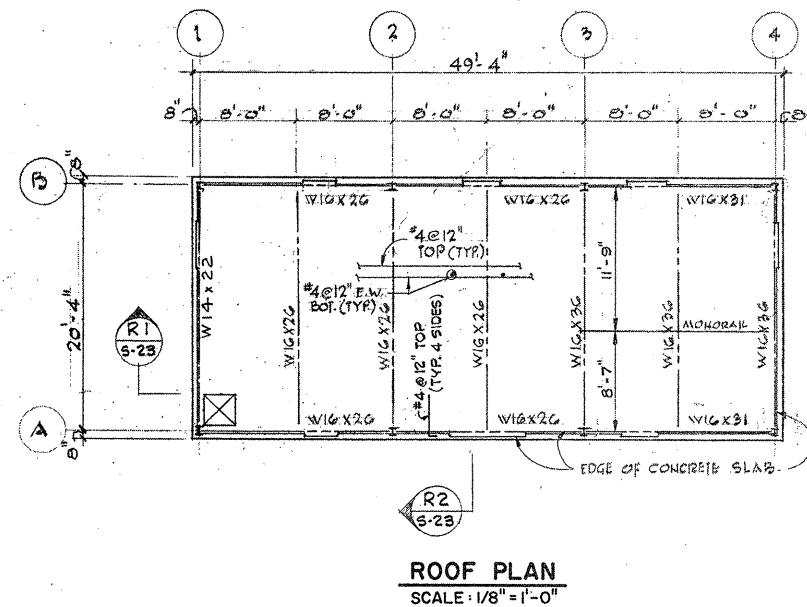


SECTION H
SCALE: 1/2" = 1'-0" S-20

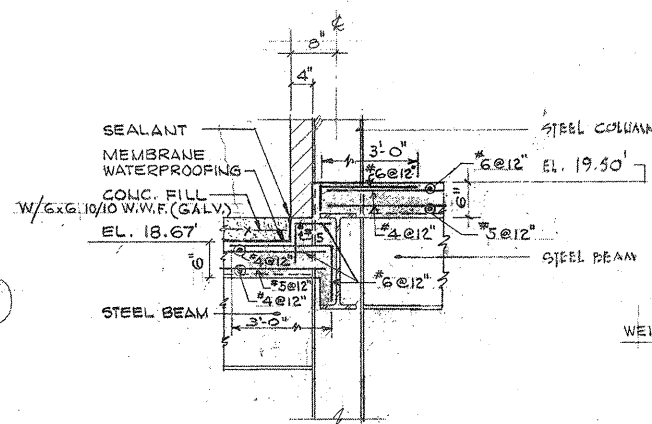


SECTION R1
SCALE: 3/4" = 1'-0" S-23

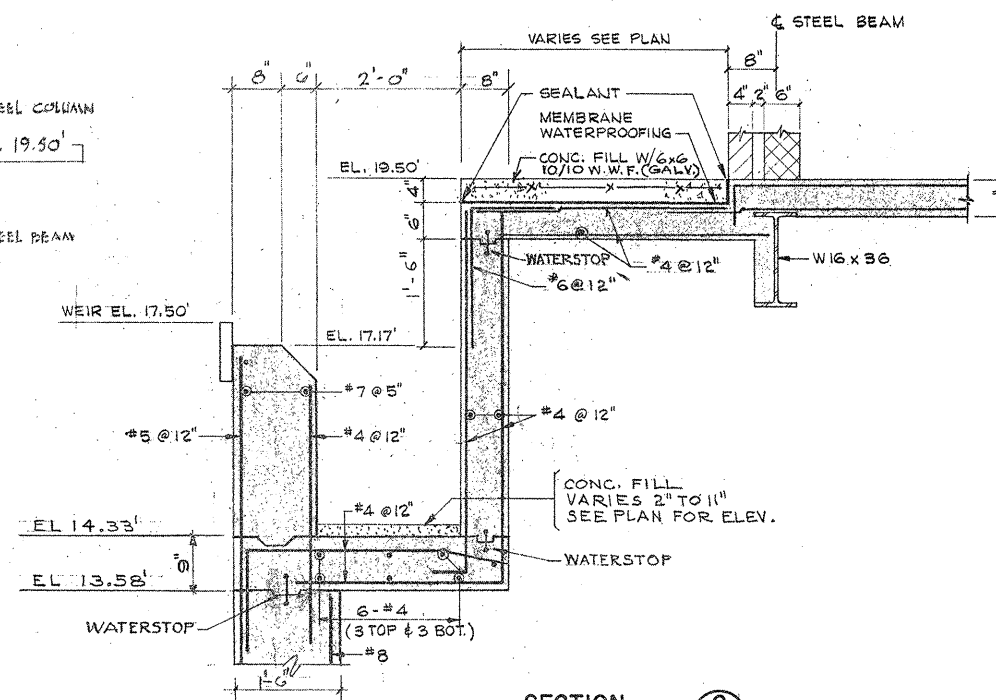
SECTION R2
SCALE: 3/4" = 1'-0" S-23



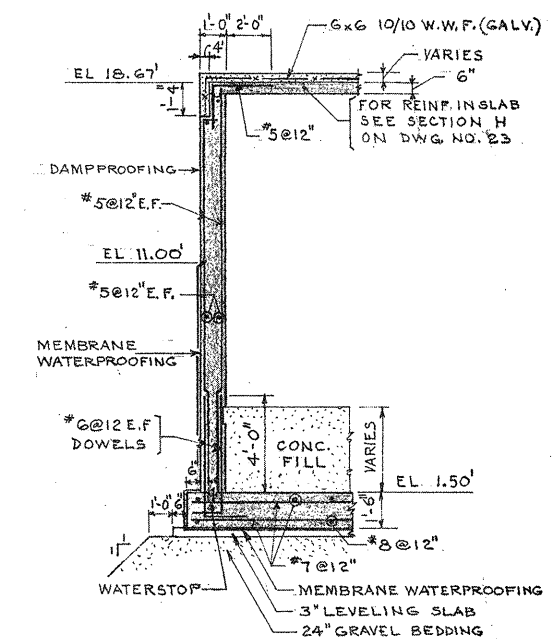
ROOF PLAN
SCALE: 1/8" = 1'-0"



SECTION F
SCALE: 3/4" = 1'-0" S-20



SECTION G
SCALE: 3/4" = 1'-0" S-20



SECTION L
SCALE: 1/4" = 1'-0" S-19

NOTE:
MONORAIL BEAM TO BE DESIGNED BY MANUFACTURER TO CARRY 4000 LB. WORKING LOAD INCLUDING IMPACT.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



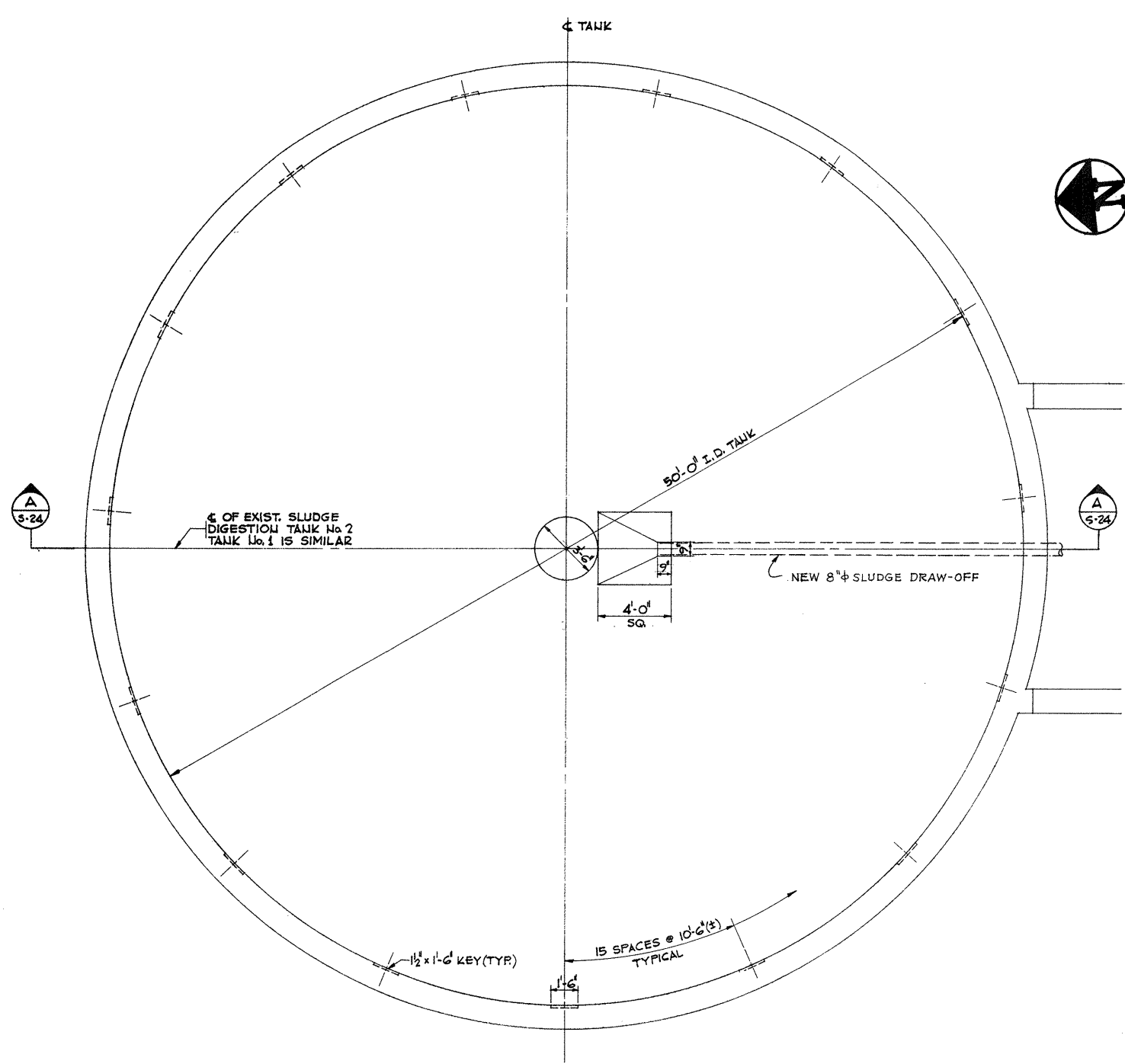
DRAWN: J. MERCURIO DESIGNED: J. SHAH
CHECKED: J. SHAH APPROVED: W. HUNDLEY
DATE: JULY, 1974
CE MAGUIRE, INC.
ARCHITECTS • ENGINEERS • PLANNERS
PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

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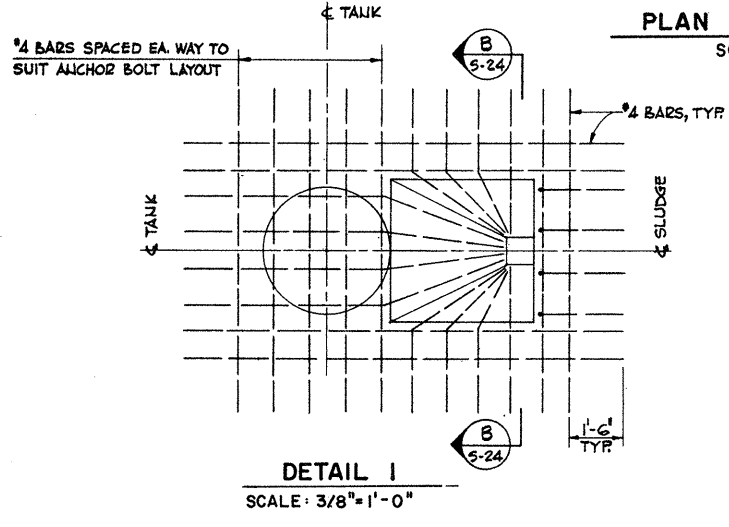
Charles A. Perry
CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
SLUDGE PUMPING STATION NO. 2
STRUCTURAL
ROOF PLAN, COLUMN SCHEDULE & SECTIONS

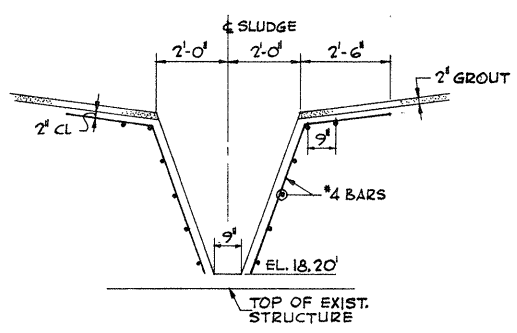
SCALE AS NOTED
CEM NO. 1981
DRAWING NO. **S-23**



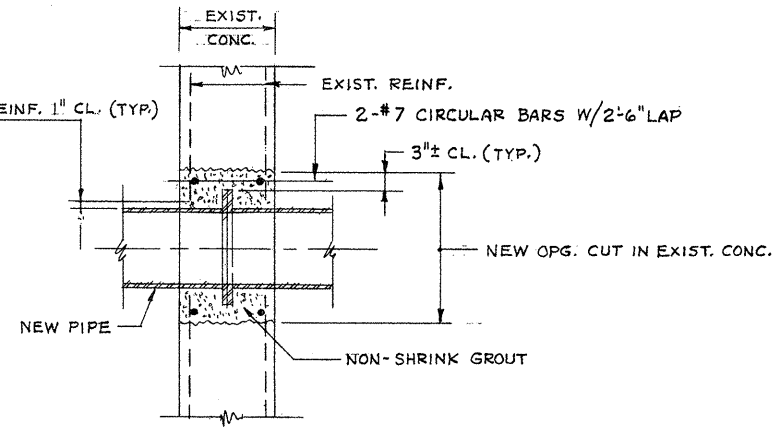
PLAN AT ELEV. 27.0
SCALE: 1/4" = 1'-0"



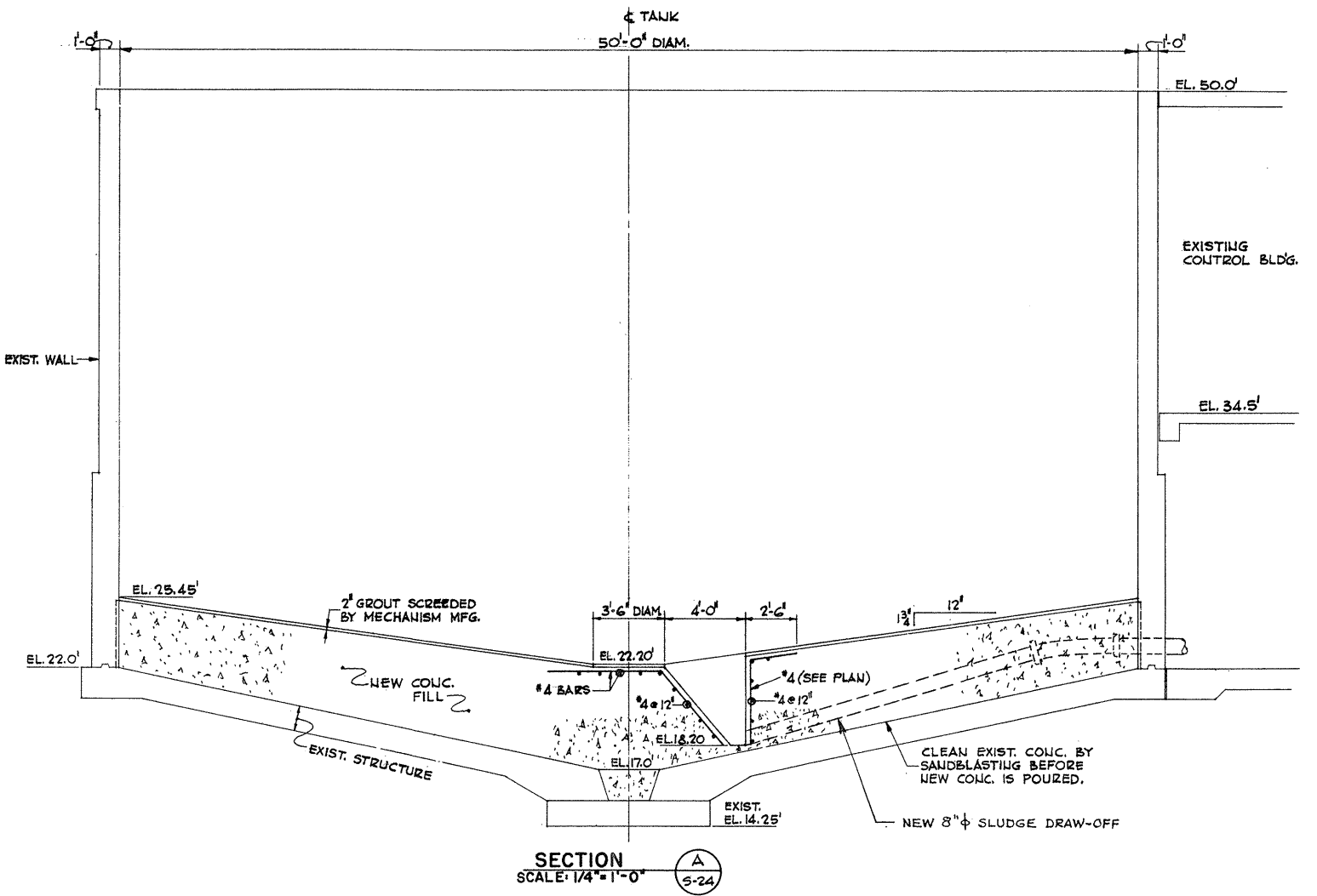
DETAIL I
SCALE: 3/8" = 1'-0"



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



TYPICAL PIPE OPENING DETAIL
THRU EXISTING CONCRETE



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

NOTE: - REINFORCING AND CONCRETE FILL IN TANK NO. 1 SAME AS TANK NO. 2

ATTENTION
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BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. MEDEIRDS DESIGNED: V. ALSAN
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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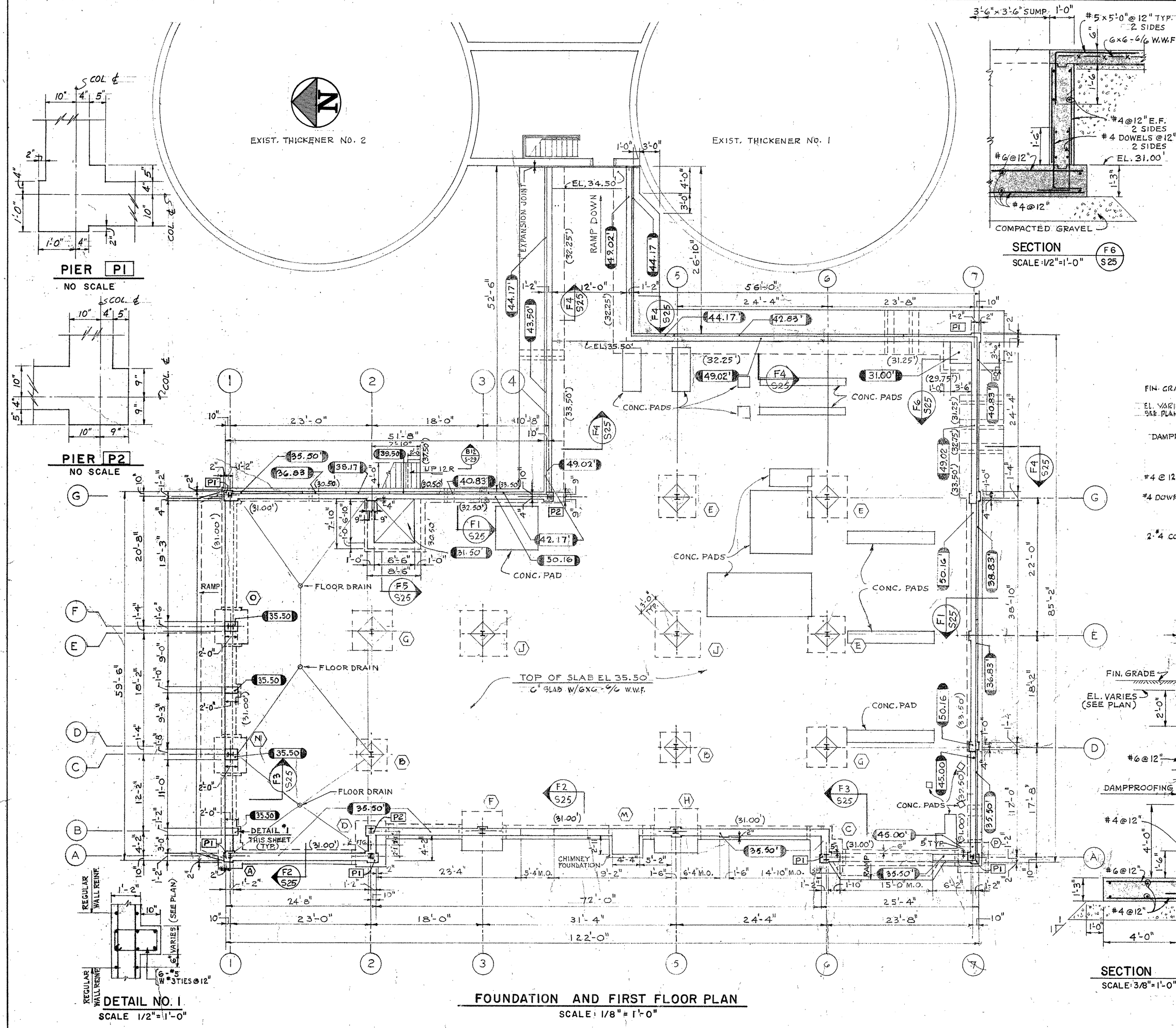
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

HOLDING AND THICKENING TANK
STRUCTURAL
 PLAN AT ELEVATION 27.0 & SECTIONS

SCALE
AS NOTED

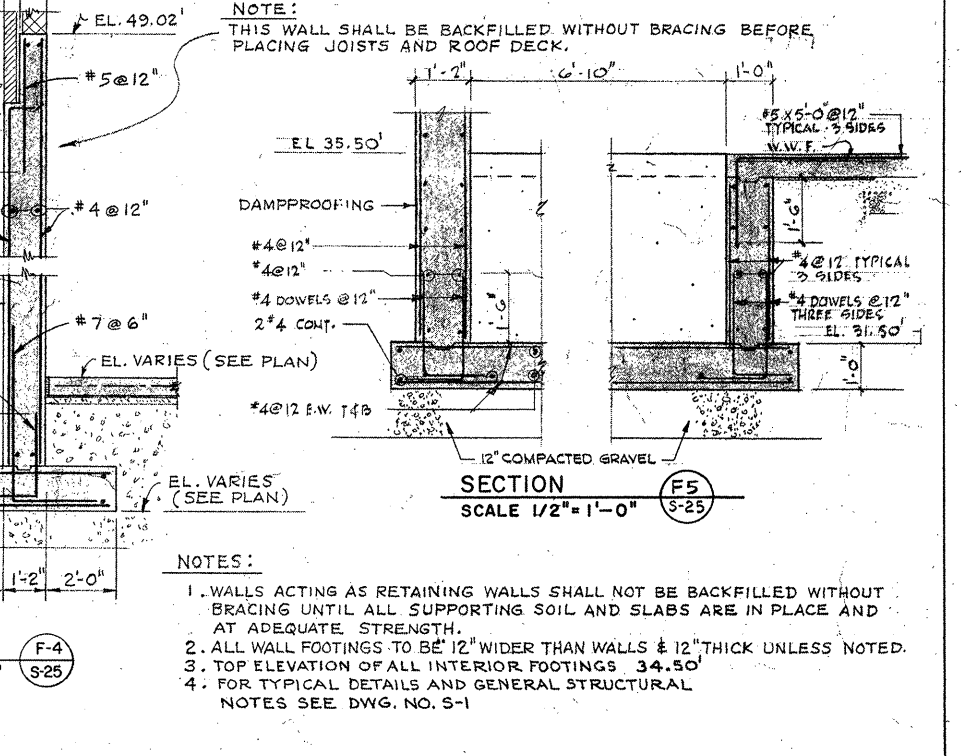
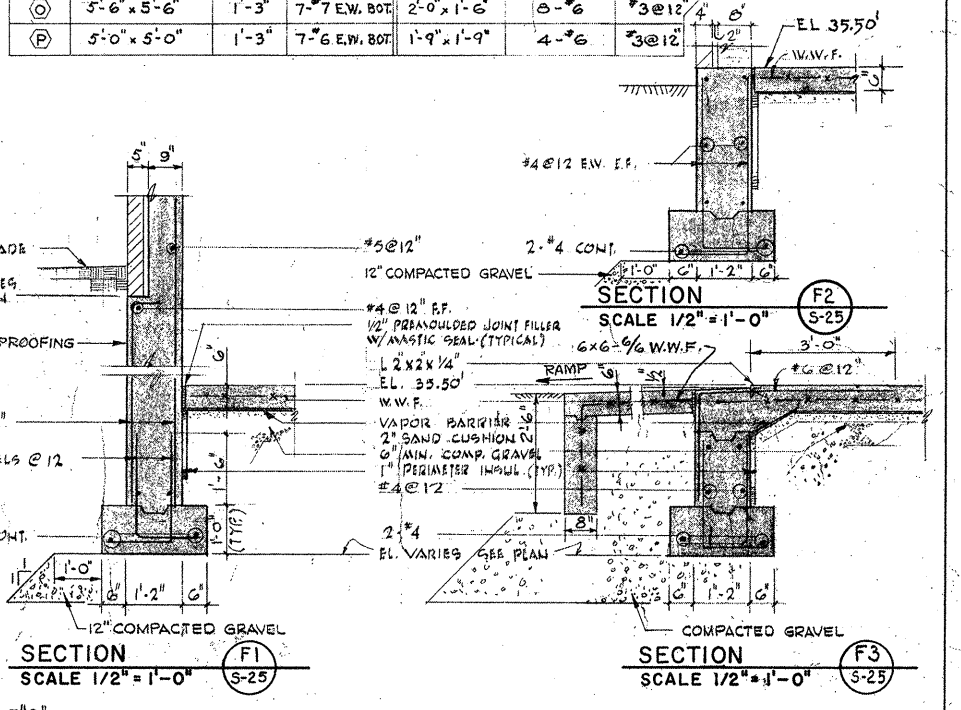
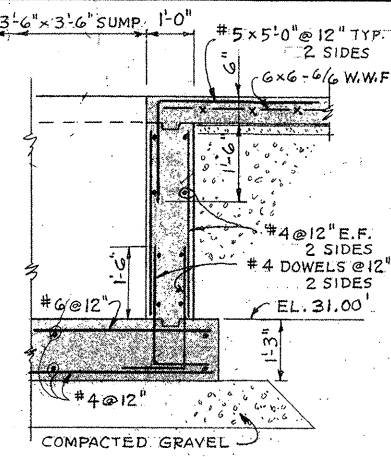
CEM NO. 1984

DRAWING NO.
S-24



FOOTING AND PIER SCHEDULE

MARK	FOOTING			PIER		REMARKS
	SIZE	REIN.	SIZE	REINFORCING	TIES	
A	4'-0" x 4'-0"	1'-0" 5-#6 E.W. BOT.	1'-9" x 1'-9"	4-#6	3@12"	
B	5'-0" x 5'-0"	1'-3" 7-#7 E.W. BOT.				
C	5'-0" x 5'-0"	1'-3" 7-#7 E.W. BOT.	1'-9" x 1'-9"	4-#6	3@12"	FOR ADD'L 2" ON PIER SEE PLAN
D	8'-0" x 5'-0"	1'-3" 10-#7 E.W. BOT.	1'-9" x 1'-9"	4-#6	3@12"	2-PIECES [P1] & [P2]
E	6'-0" x 6'-0"	1'-0" 7-#7 E.W. BOT.				
F	6'-0" x 6'-0"	1'-0" 9-#7 E.W. BOT.	1'-6" x 1'-6"	4-#6	3@12"	
G	6'-0" x 6'-0"	1'-0" 9-#7 E.W. BOT.				
H	7'-0" x 7'-0"	1'-3" 8-#7 E.W. BOT.	1'-6" x 1'-6"	4-#6	3@12"	
J	7'-0" x 7'-0"	1'-3" 9-#7 E.W. BOT.				
M	5'-4" x 5'-1"	1'-0" 6-#6 E.W. BOT.	4'-4" x 4'-1"	4@12" E.W. E.F.		
N	5'-6" x 5'-6"	1'-3" 7-#7 E.W. BOT.	2'-0" x 1'-8"	8-#6	3@12"	
O	5'-6" x 5'-6"	1'-3" 7-#7 E.W. BOT.	2'-0" x 1'-6"	8-#6	3@12"	
P	5'-0" x 5'-0"	1'-3" 7-#6 E.W. BOT.	1'-9" x 1'-9"	4-#6	3@12"	



FOUNDATION AND FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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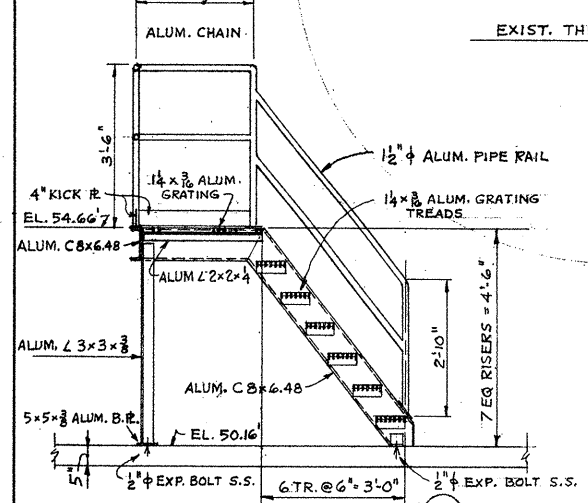
APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

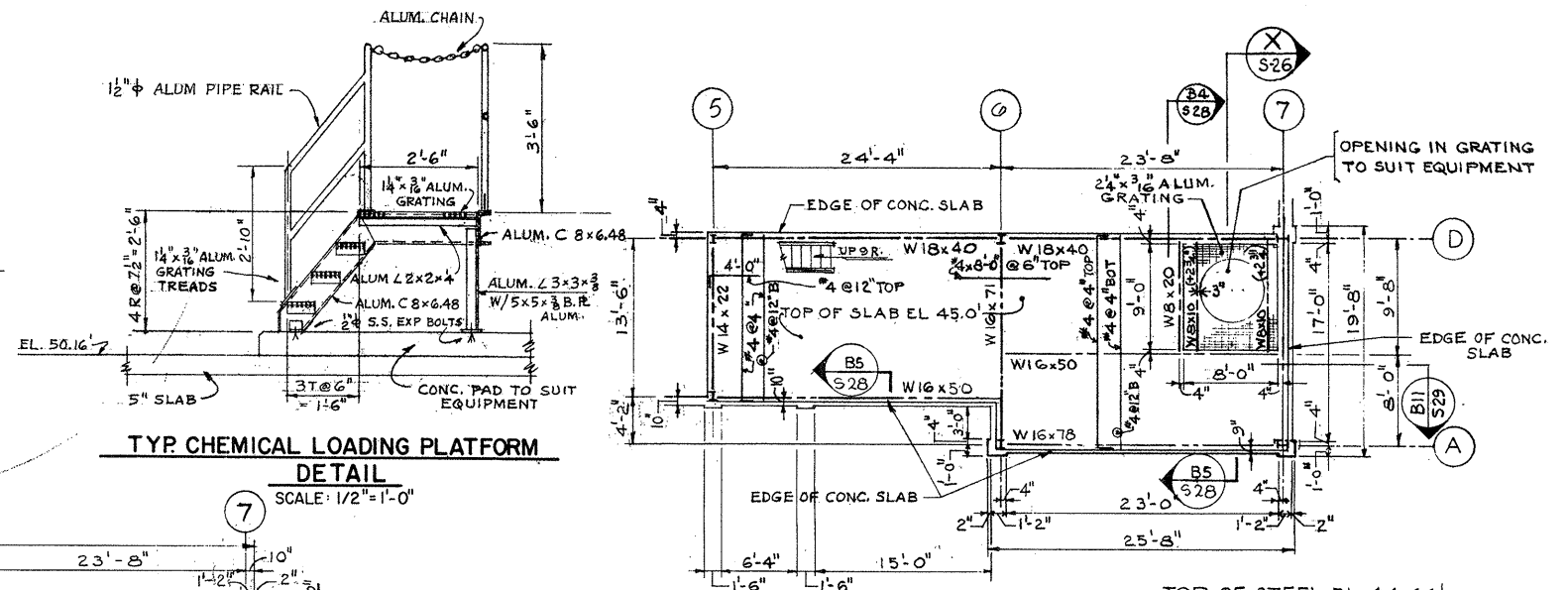
SLUDGE HANDLING BUILDING
STRUCTURAL
 FOUNDATION, FIRST FLOOR PLAN & SECTIONS

SCALE: AS NOTED
 CEM NO. 1981
 DRAWING NO. **S-25**

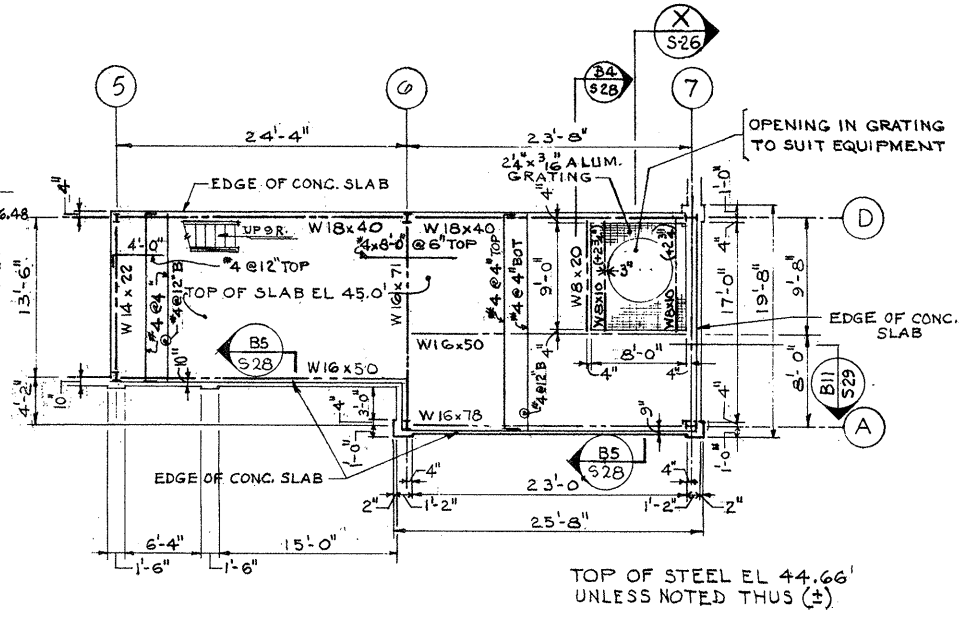
NOTE:
PROVIDE ALUM. CHAIN BETWEEN THESE POSTS ON OPPOSITE SIDE OF PLATFORM



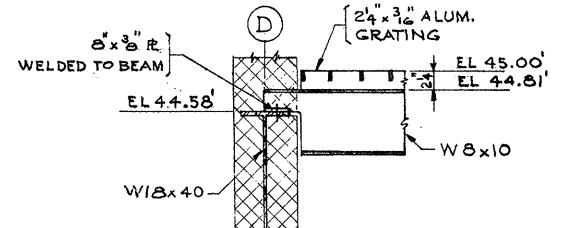
TYP. VACUUM FILTER LOADING PLATFORM DETAIL
SCALE: 1/2" = 1'-0"



TYP. CHEMICAL LOADING PLATFORM DETAIL
SCALE: 1/2" = 1'-0"

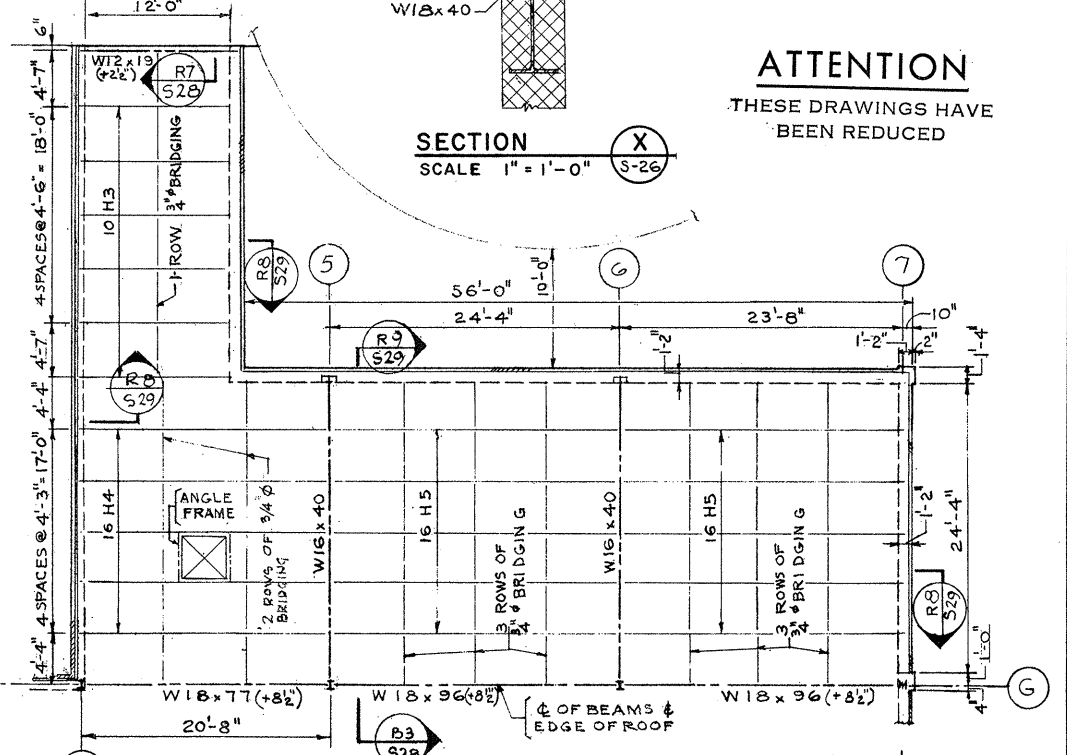


PLAN AT EL 45.00'
SCALE: 1/8" = 1'-0"



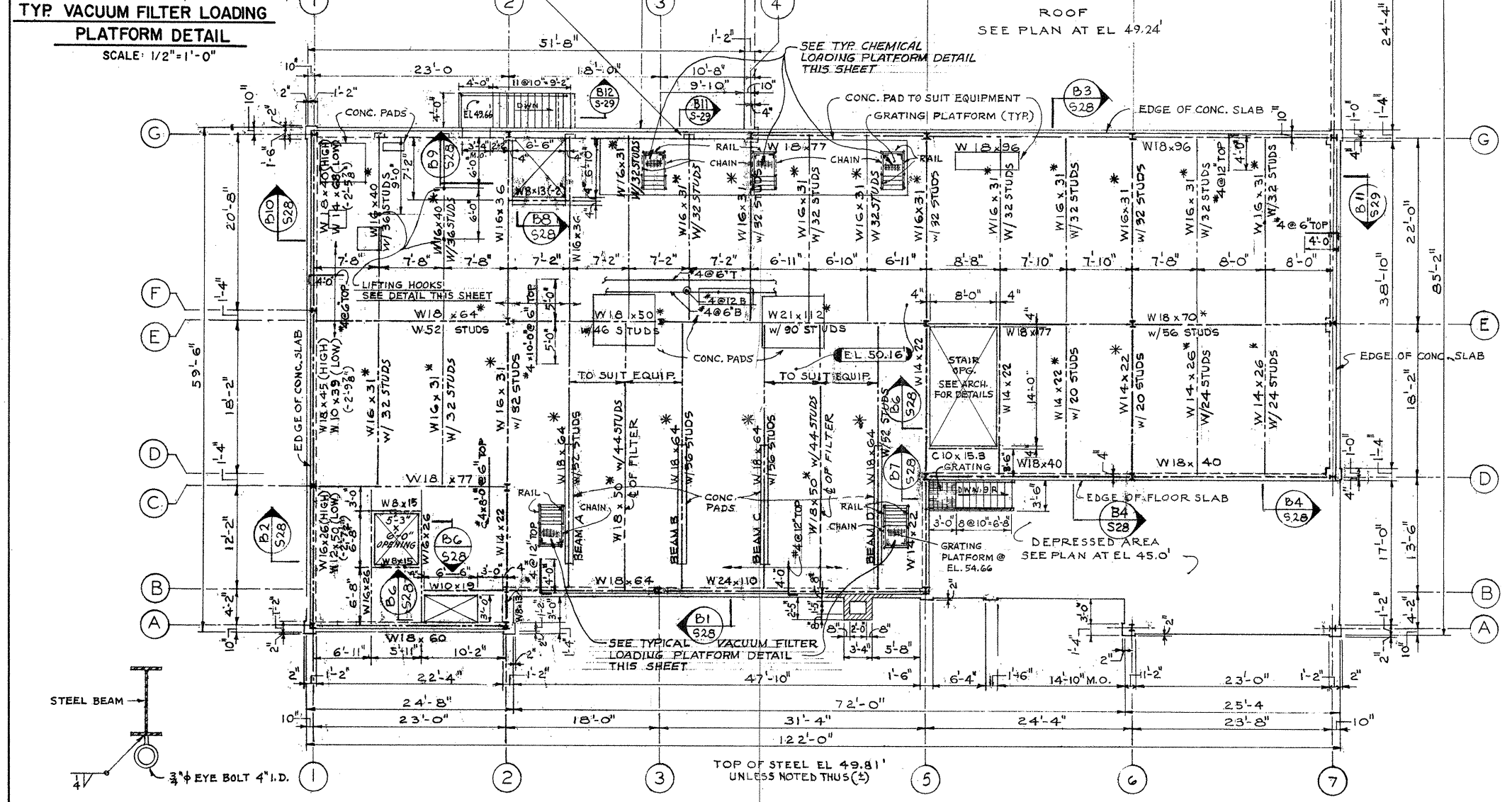
SECTION X-X
SCALE: 1" = 1'-0"

ATTENTION
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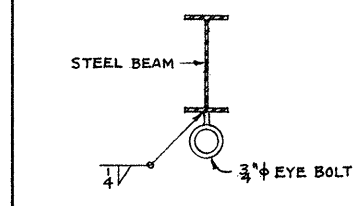


PLAN AT EL 49.24'
SCALE: 1/8" = 1'-0"

- NOTES:
1. BEAMS A, B, C & D TO BE LOCATED DIRECTLY UNDER THE SKIDS OF FILTERS.
 2. BEAMS WITH ASTERISK MARK ARE COMPOSITE BEAMS.
 3. FOR TYPICAL DETAILS & GENERAL NOTES SEE DRAWING NO. S-1.



SECOND FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"



LIFTING HOOK DETAIL
SCALE: NONE

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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 ARCHITECTS • ENGINEERS • PLANNERS
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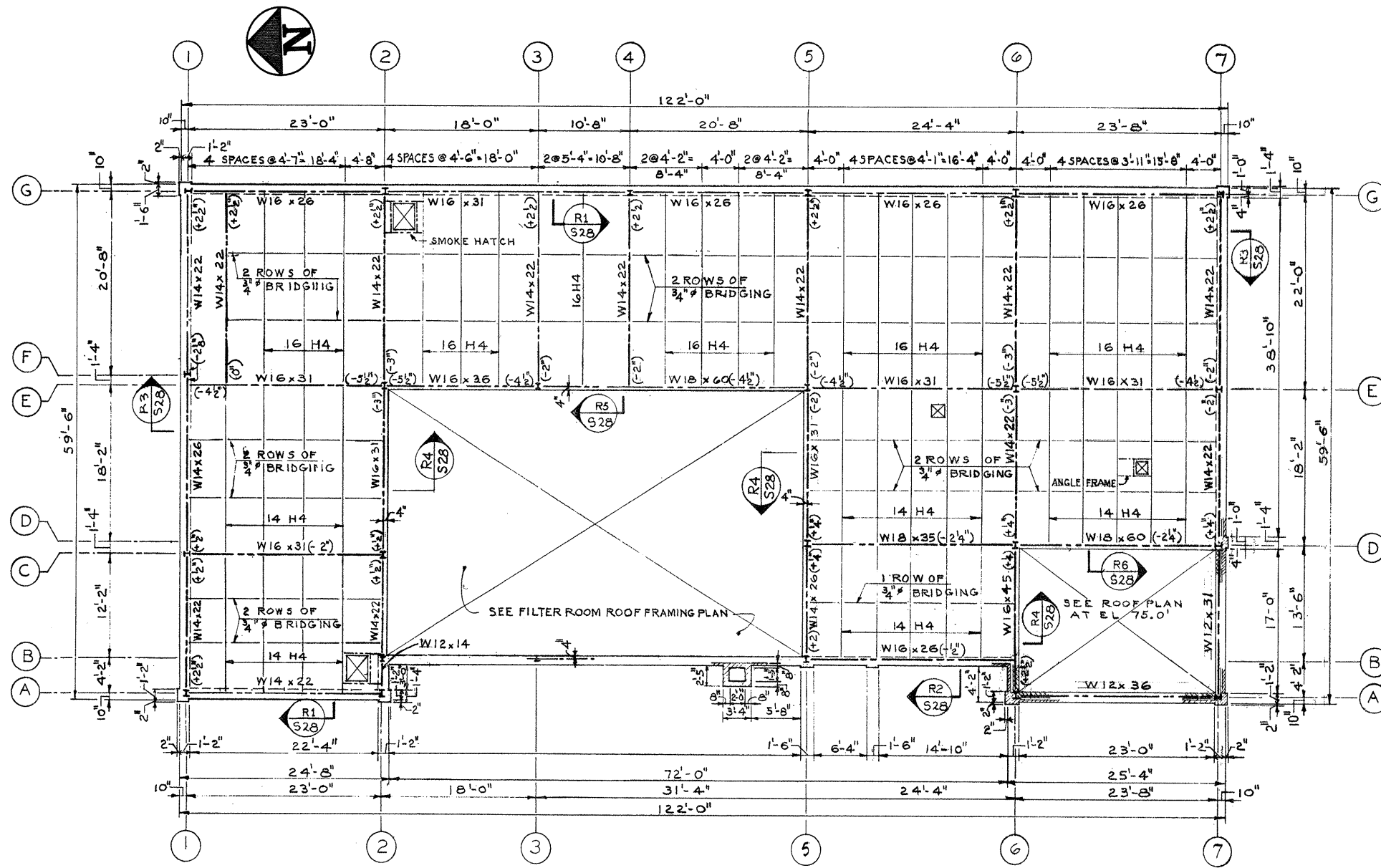
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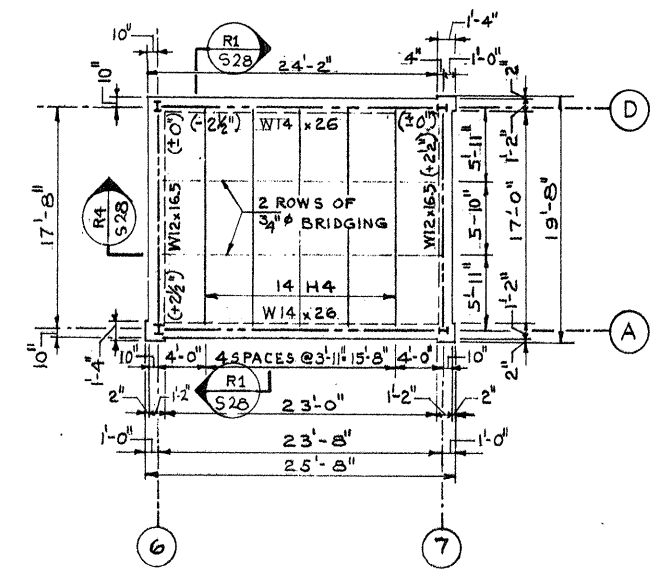
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
 STRUCTURAL

SCALE
1/8" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-26

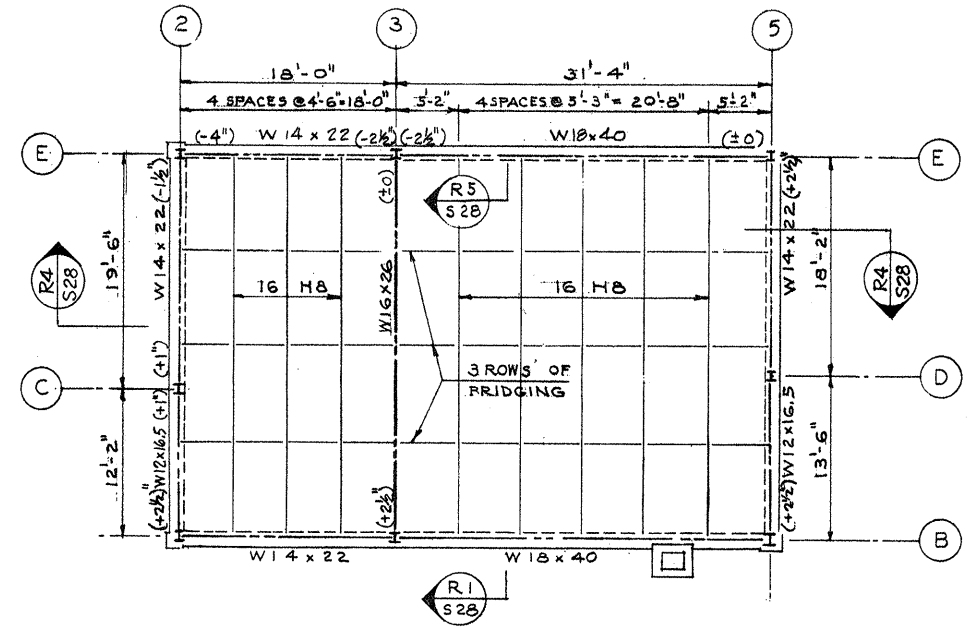
SECOND FLOOR & LOW ROOF FRAMING PLAN



TOP OF STEEL EL. 65.04 UNLESS NOTED THUS (±)
MAIN ROOF FRAMING PLAN
 SCALE: 1/8" = 1'-0"



TOP OF STEEL EL. 74.38 UNLESS NOTED THUS (±)
REACTOR ROOF FRAMING PLAN
 SCALE 1/8" = 1'-0"



TOP OF STEEL EL. 69.04 UNLESS NOTED THUS (±)
FILTER ROOM ROOF FRAMING PLAN
 SCALE 1/8" = 1'-0"

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

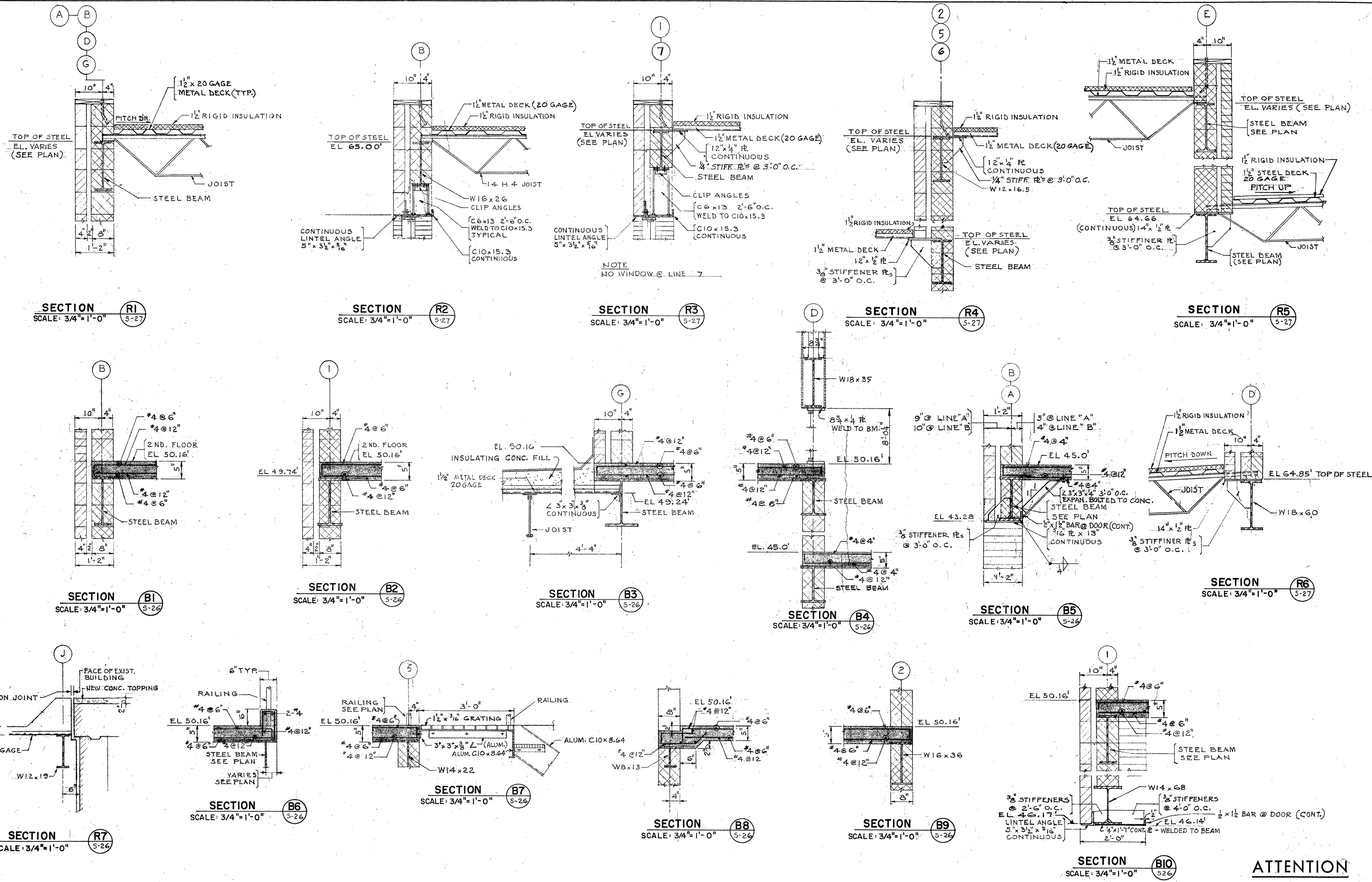


DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
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Charles G. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
STRUCTURAL ROOF FRAMING PLAN

SCALE
 1/8" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-27



NOTE
NO WINDOW @ LINE 7

ATTENTION
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BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
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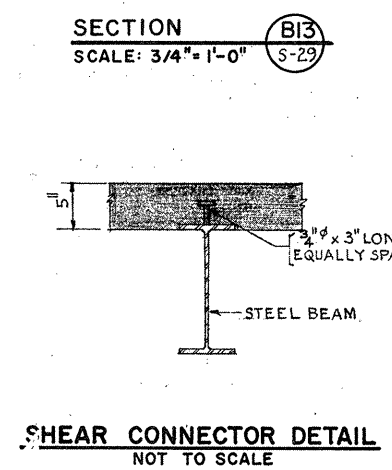
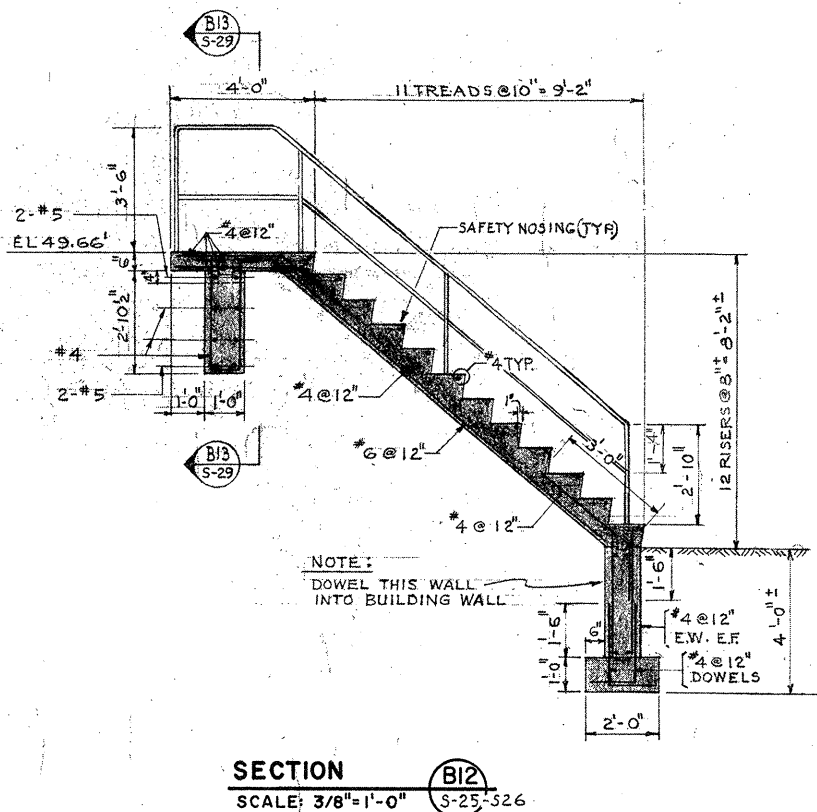
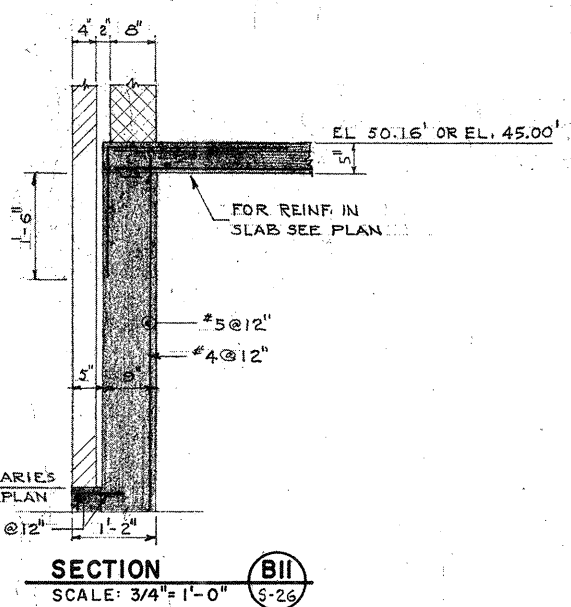
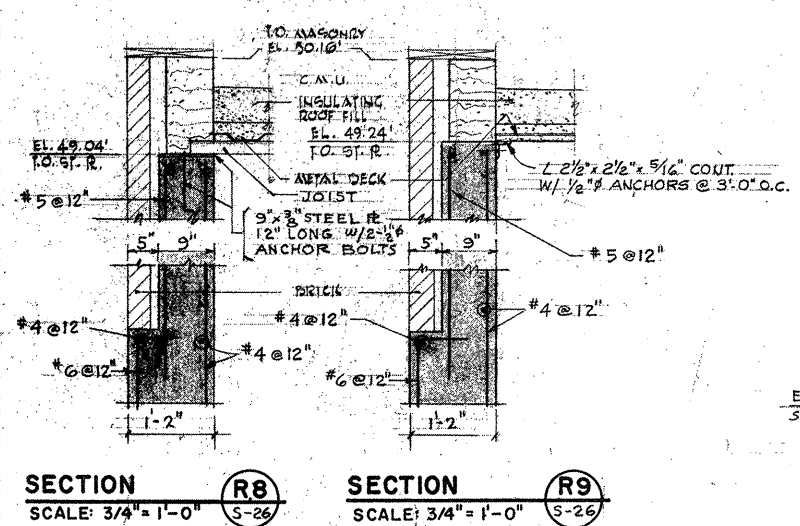
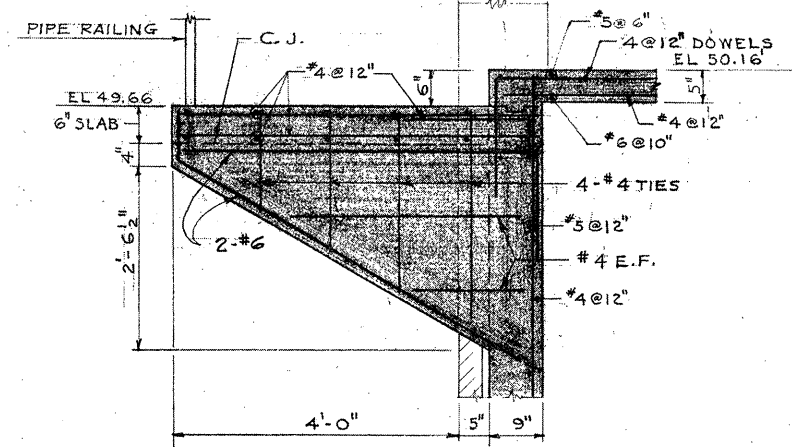
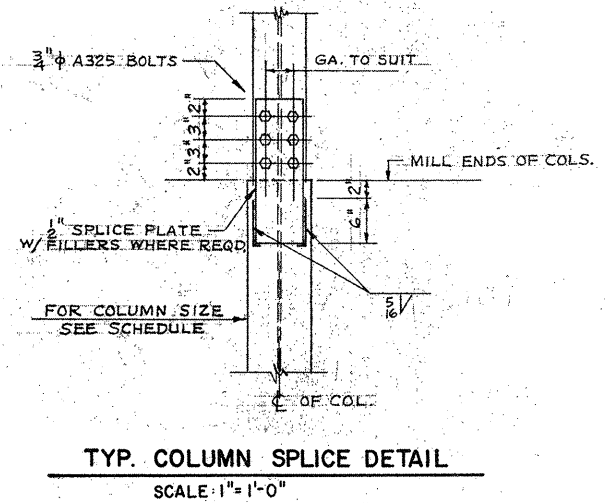
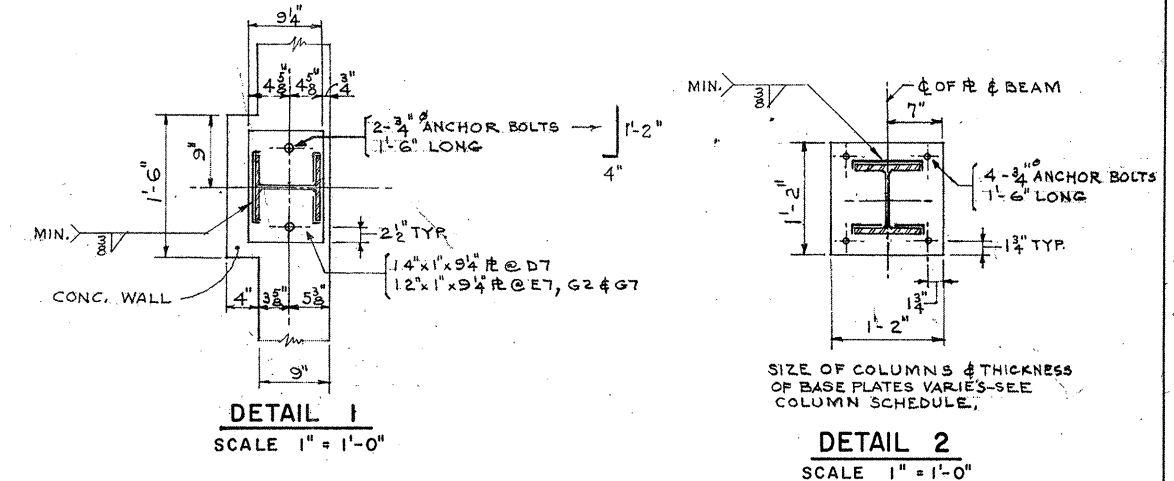
APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
STRUCTURAL SECTIONS

SCALE:
3/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
S-28

STEEL COLUMN SCHEDULE

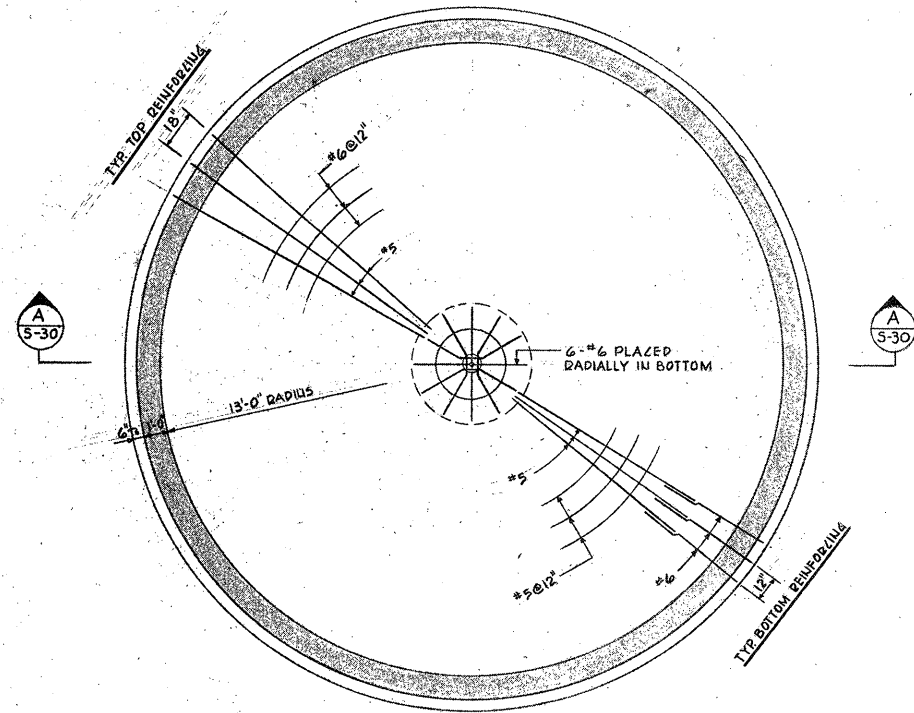
COLUMN NUMBER	A1, A2	A6	A7	B2	B3	B5	C1	C2	D5	D6	D7	E2	E3, E5	E6	E7	F1	G1	G5, G6	G2	G4	G7
REACTOR FL. 74.30 ROOF																					
FILTER RA. EL. 69.04 ROOF																					
MAIN EL. 65.04 ROOF																					
SECOND EL. 50.16 FLOOR																					
REACTOR RA. EL. 45.00 FLOOR																					
FIRST FLOOR EL. 35.50																					
BASE R.	14" X 24" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	14" X 1" X 1/2"	
ANCHOR BOLTS	4 - 3/4"																				
BASE PL. SEE DETAIL	#2																				



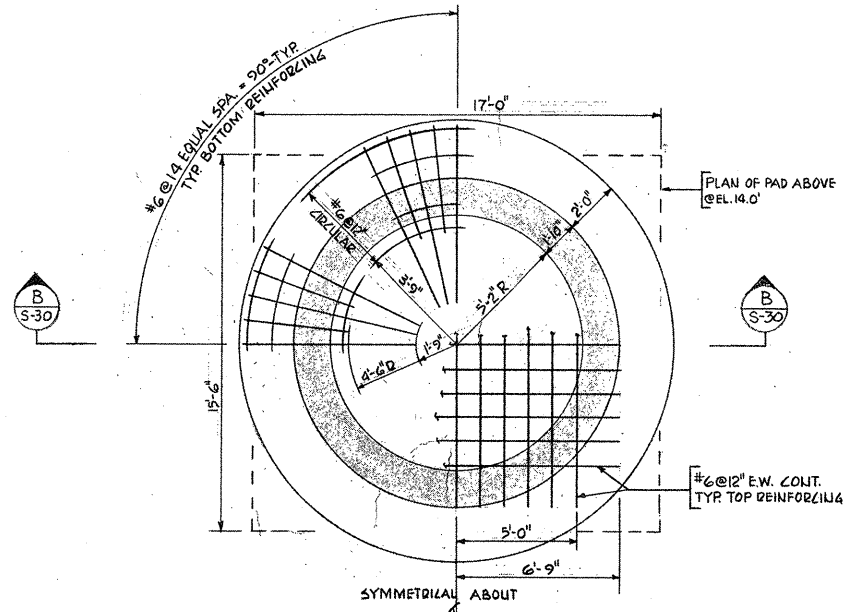
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

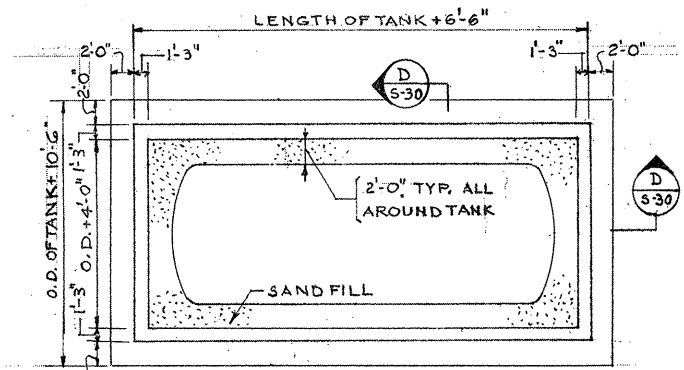
	DRAWN: J. MERCURIO DESIGNED: J. SHAH CHECKED: J. SHAH APPROVED: W. HUNDLEY DATE: JULY, 1974	CITY OF TAUNTON, MASSACHUSETTS WASTEWATER TREATMENT FACILITY ADDITIONS & IMPROVEMENTS SLUDGE HANDLING BUILDING STRUCTURAL COLUMN SCHEDULE AND SECTIONS	SCALE AS NOTED CEM NO: 1981
	CE MAGUIRE, INC. ARCHITECTS • ENGINEERS • PLANNERS PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.		APPROVED



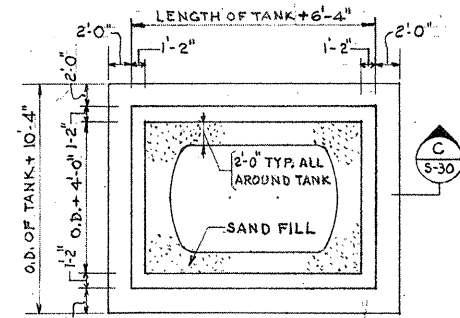
DECANT TANK
PLAN AT EL. 37.0'



LIME SILO FOUNDATION
PLAN AT EL. 9.50'



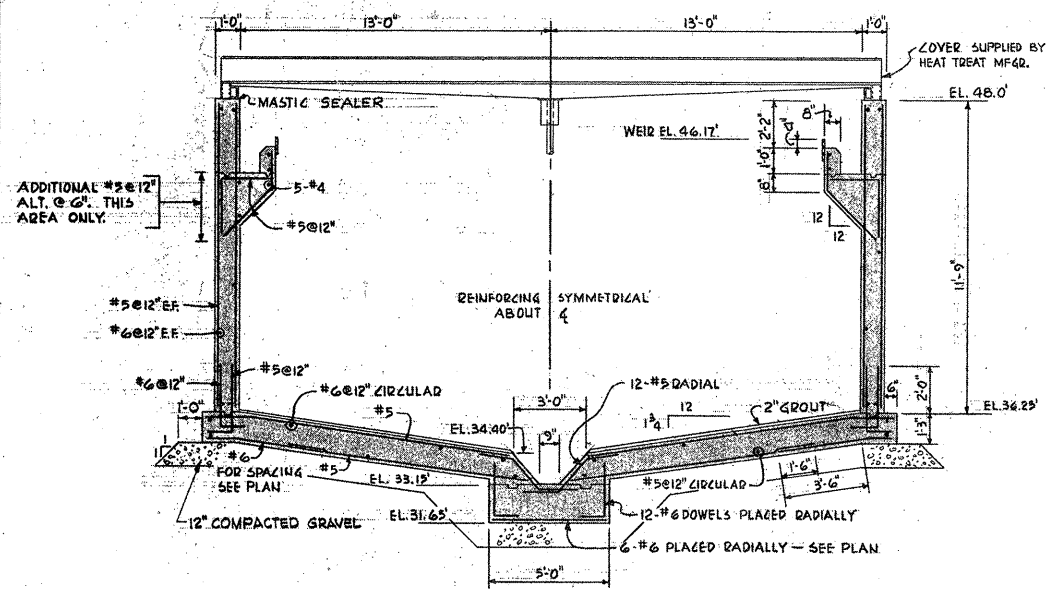
TANKS BETWEEN 31'-0" & 35'-0" LONG
& 10'-6" TO 12'-0" DIA.
PLAN



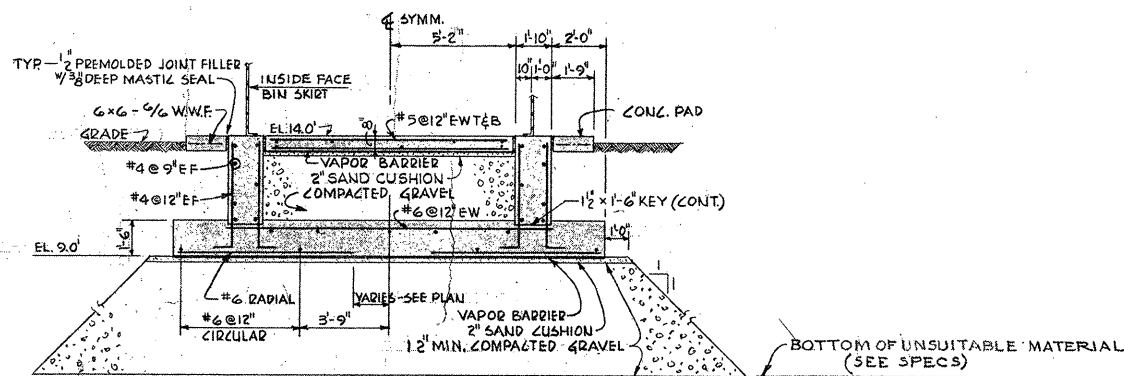
TANKS BETWEEN 12'-0" & 16'-0" LONG
& 8'-0" TO 10'-6" DIA.
PLAN

ENCASEMENT FOR FUEL TANKS
NOT TO SCALE

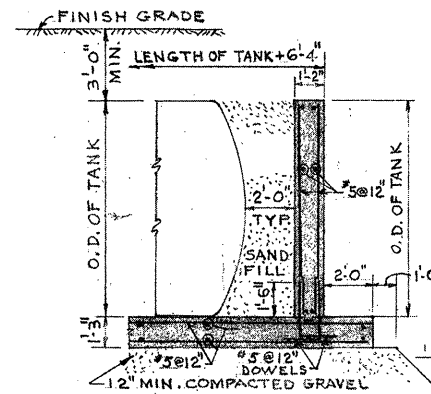
ATTENTION
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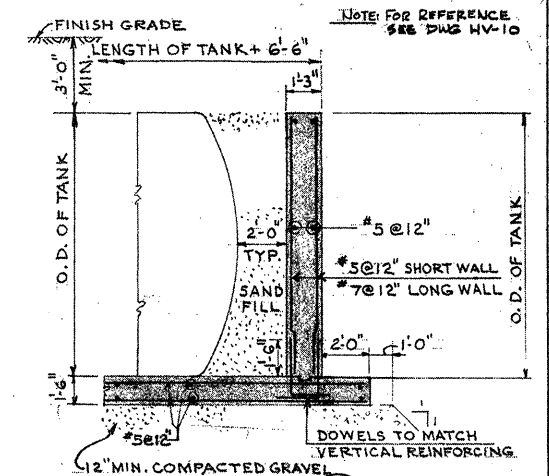
SECTION A-A
SCALE 1/4" = 1'-0"



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



SECTION C-C
NOT TO SCALE



SECTION D-D
NOT TO SCALE

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



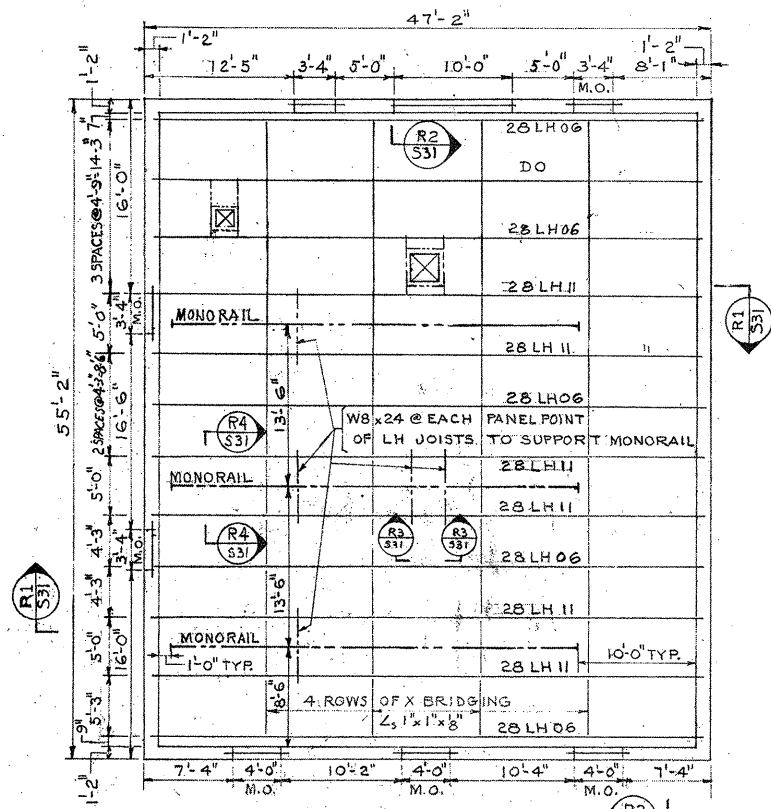
DRAWN: E. FURMAN DESIGNED: J. SHAH
CHECKED: J. SHAH APPROVED: W. HUNDLEY
DATE: JULY, 1974

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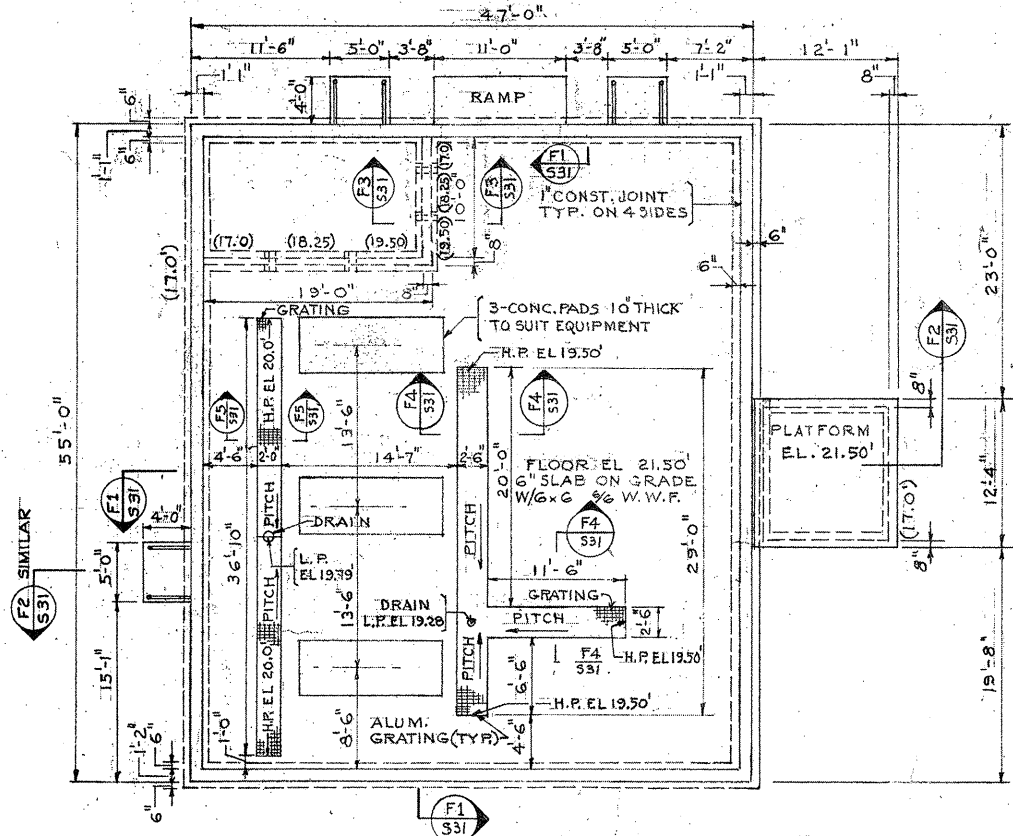
APPROVED
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CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
DECANT TANK AND LIME SILO FOUNDATION
STRUCTURAL PLANS AND SECTIONS

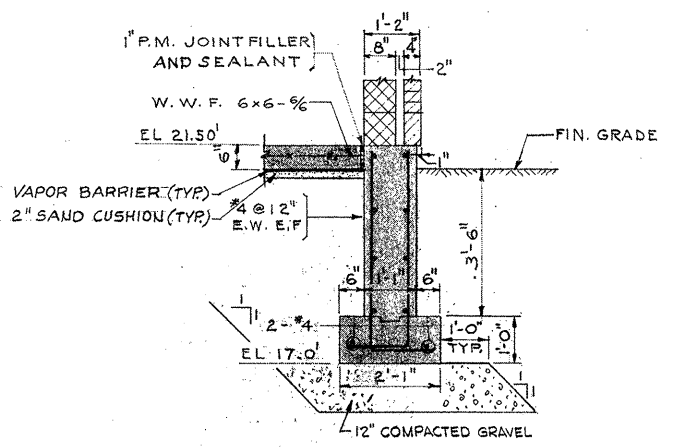
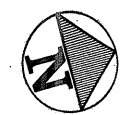
SCALE:
1/4" = 1'-0"
CEM NO. 1981
DRAWING NO.
S-30



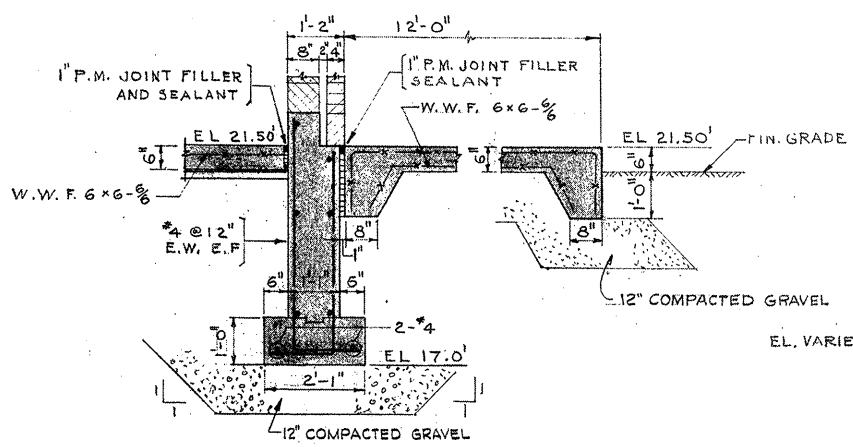
ROOF PLAN
SCALE: 1/8" = 1'-0"



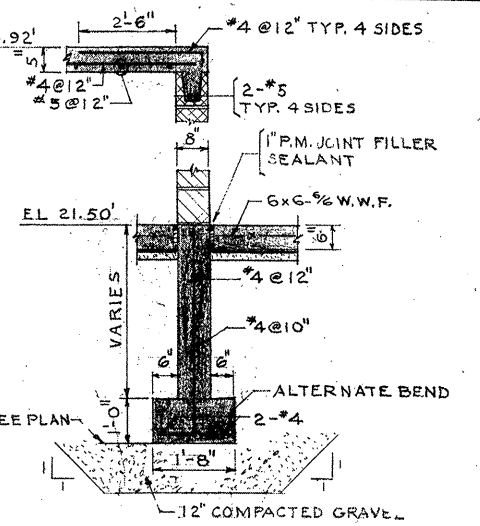
PLAN AT EL. 21.50
SCALE: 1/8" = 1'-0"



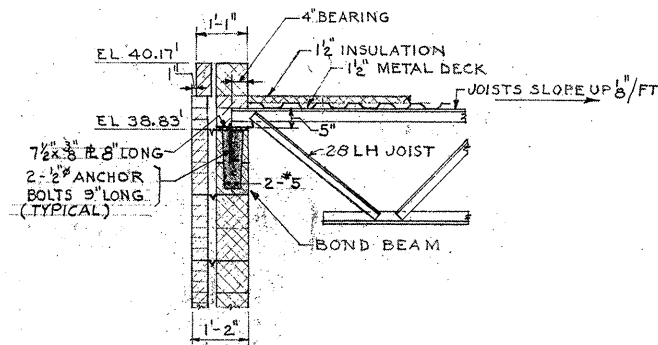
SECTION F1
SCALE: 1/2" = 1'-0"



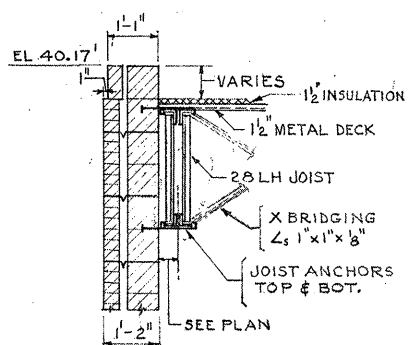
SECTION F2
SCALE: 1/2" = 1'-0"



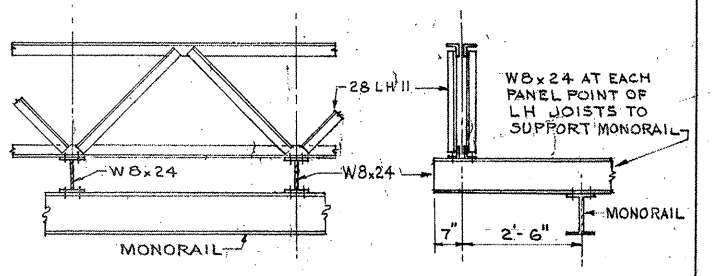
SECTION F3
SCALE: 1/2" = 1'-0"



SECTION R1
SCALE: 1/2" = 1'-0"

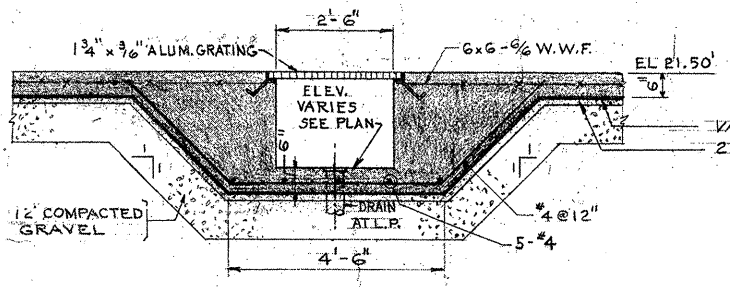


SECTION R2
SCALE: 1/2" = 1'-0"

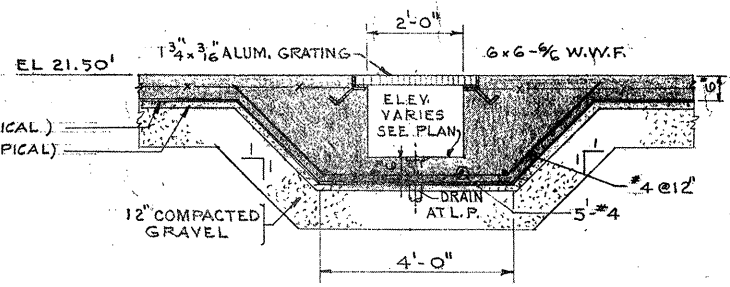


SECTION R3
SCALE: 1/2" = 1'-0"

SECTION R4
SCALE: 1/2" = 1'-0"



SECTION F4
SCALE: 1/2" = 1'-0"

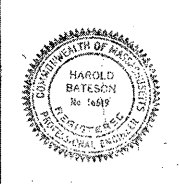


SECTION F5
SCALE: 1/2" = 1'-0"

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

- NOTES:**
1. MONORAIL BEAM TO BE DESIGNED BY MANUFACTURER TO CARRY 7,200# WORKING LOAD INCLUDING IMPACT.
 2. FOR TYPICAL DETAILS AND GENERAL STRUCTURAL NOTES SEE DWG. NO. S-1
 3. CONCRETE PADS FOR COMPRESSORS ARE TO BE 10" THICK AND REINFORCED WITH #4 @ 12" E.W. TOP AND BOTTOM. PROVIDE 1/2" PREMOLDED JOINT FILLER AND MASTIC SEALER BETWEEN PAD AND FLOOR SLAB.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



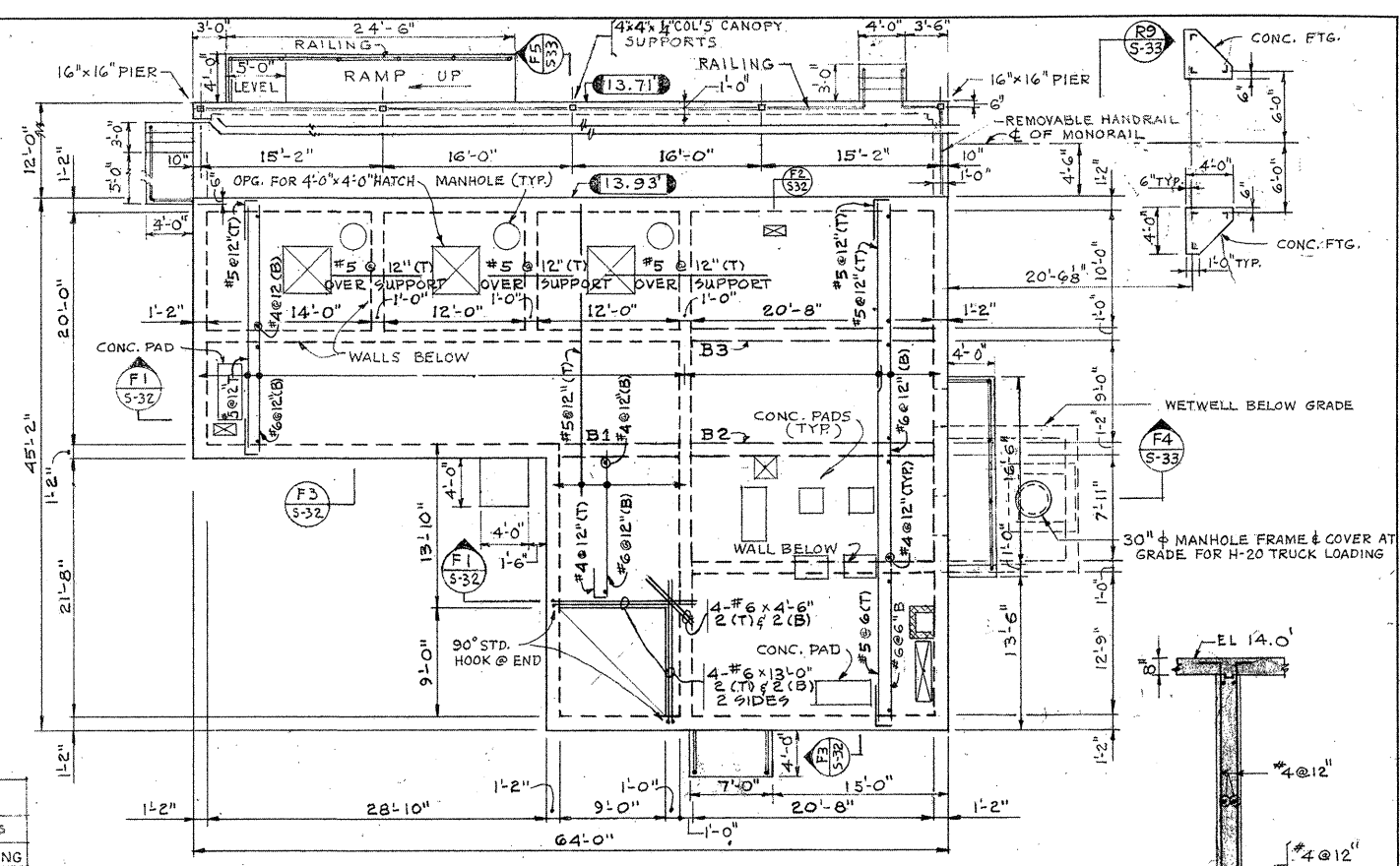
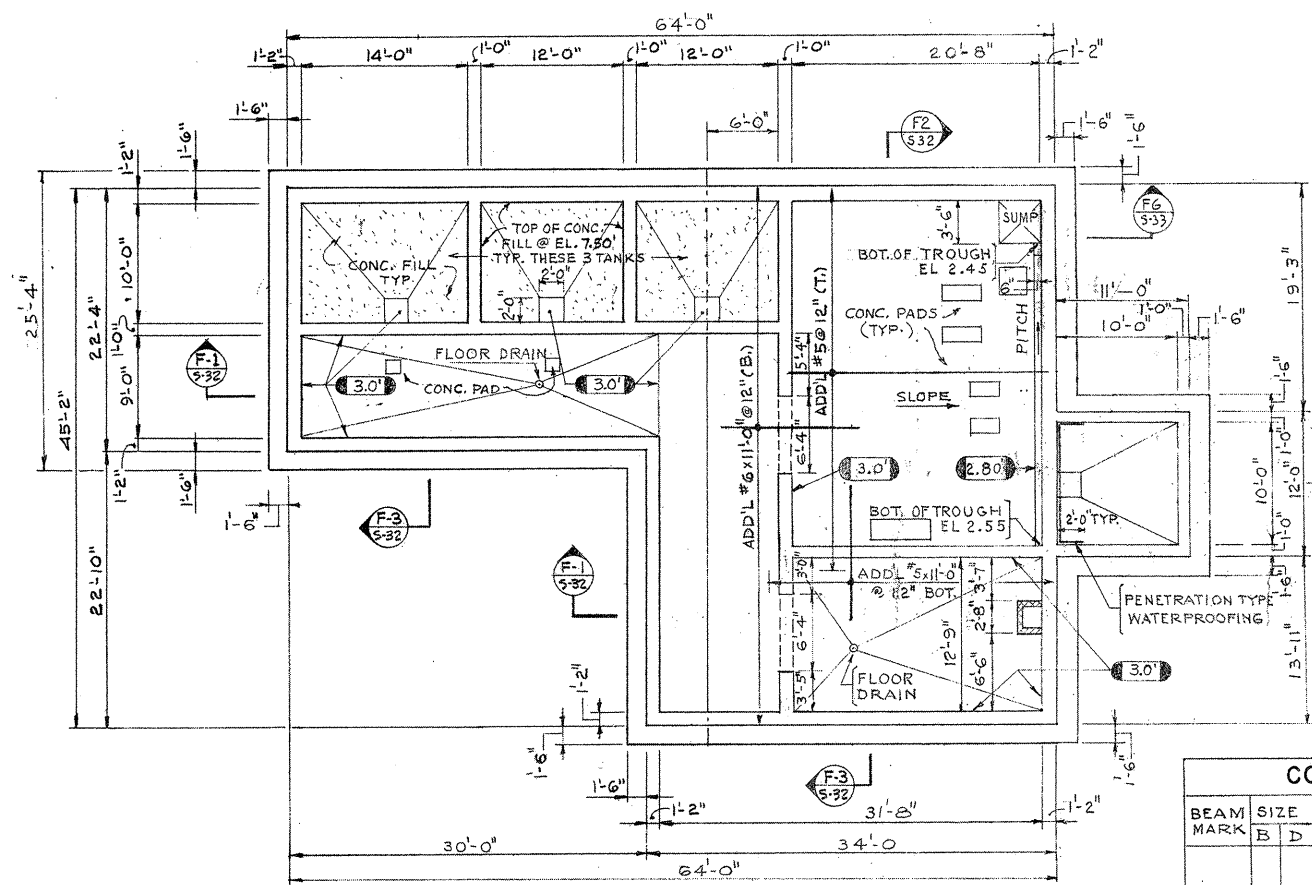
CE MAGUIRE, INC.
ARCHITECTS • ENGINEERS • PLANNERS
PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

DRAWN: J. MURPHY **DESIGNED:** J. SHAH
CHECKED: J. SHAH **APPROVED:** W. HUNDLEY
DATE: JULY, 1974

APPROVED
Charles A. King
CITY OF TAUNTON

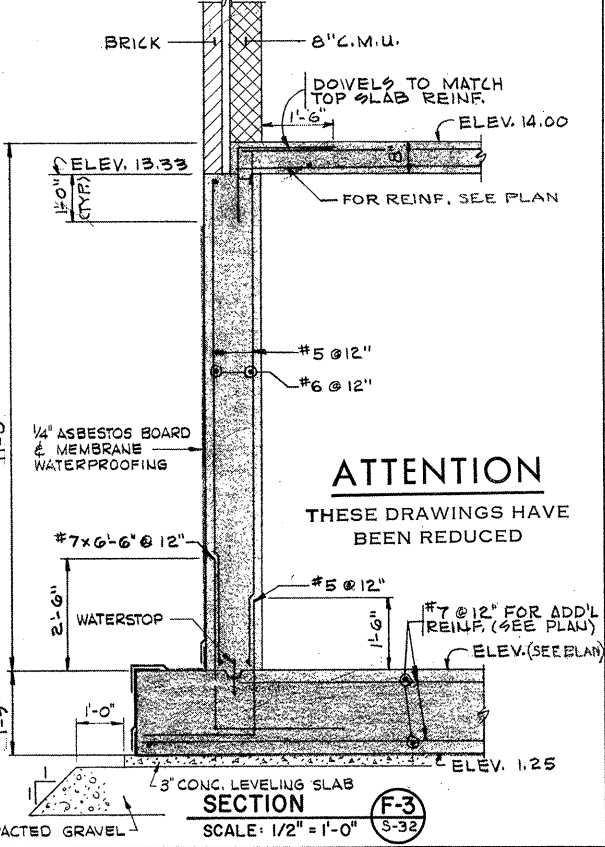
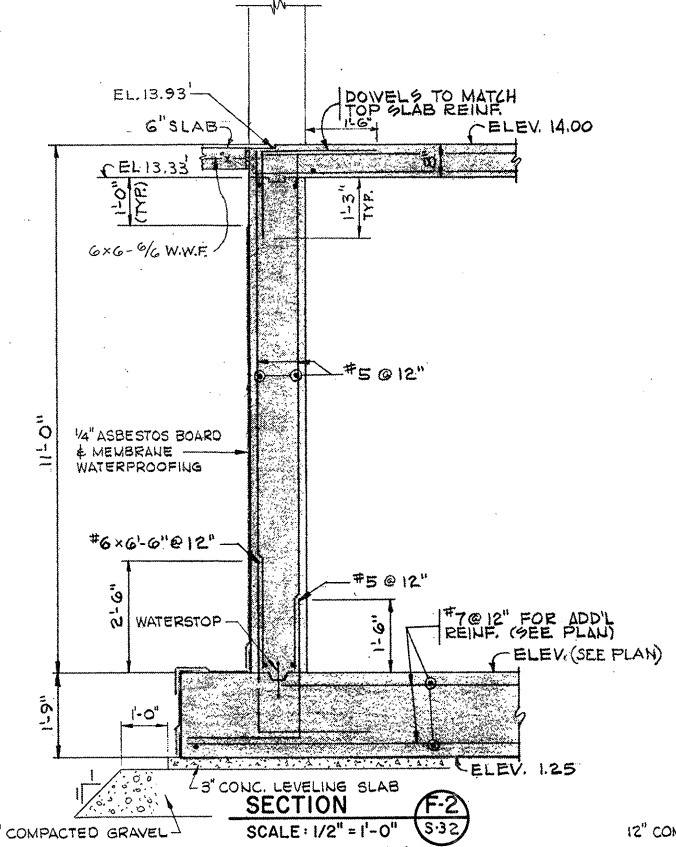
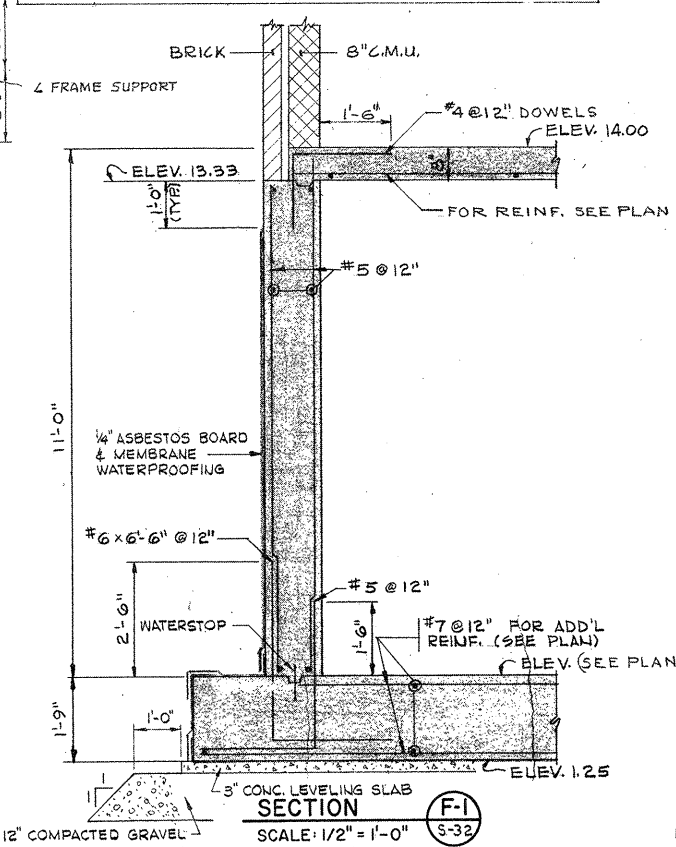
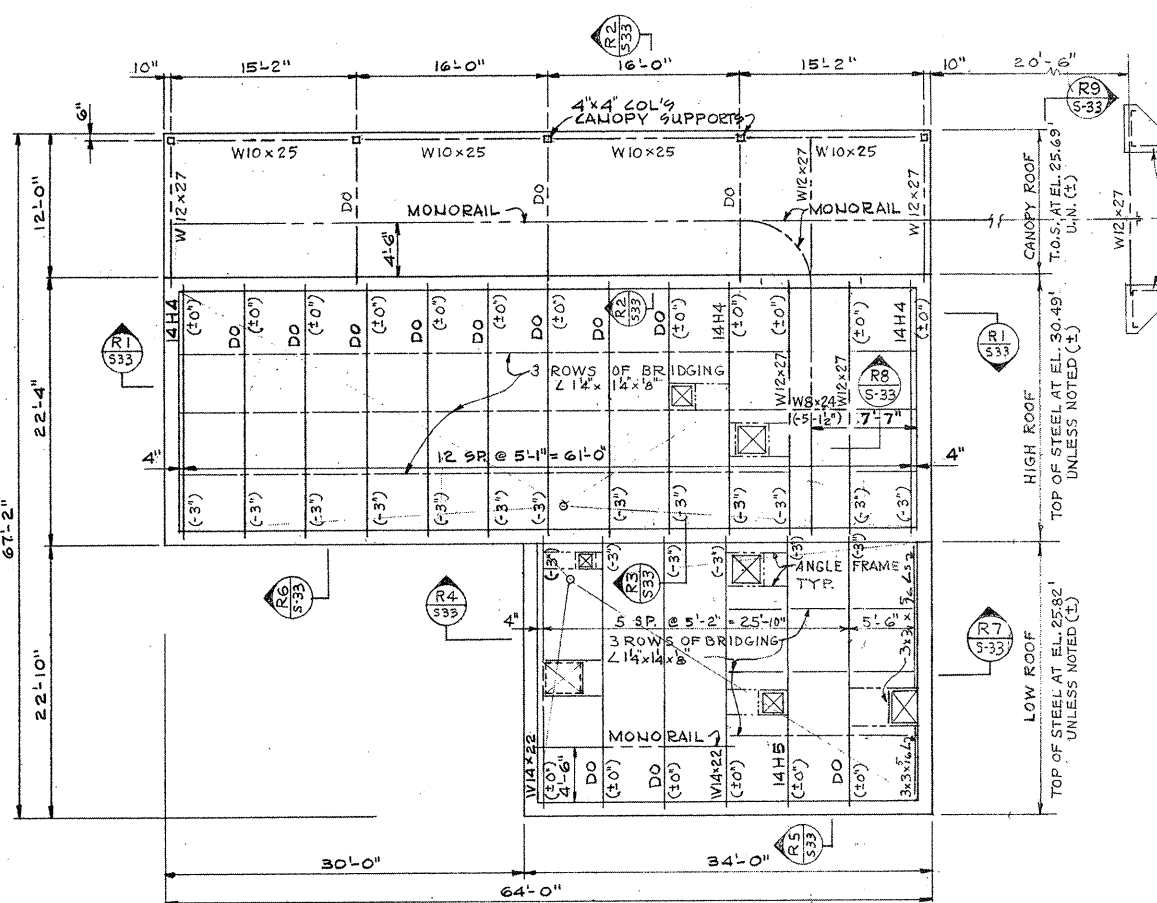
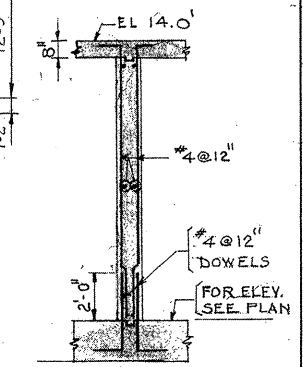
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
OXYGEN GENERATION BUILDING
STRUCTURAL PLANS & SECTIONS

SCALE:
AS NOTED
CEM NO. 1981
DRAWING NO.
S-31



CONCRETE BEAM SCHEDULE				
BEAM MARK	SIZE	SKETCH		STIRRUPS
		SUPP. LEFT	SUPP. RIGHT	
B 1	14 36	2'-7 1/2" 2'-7"	4-#10	#3 12"
B 2	14 36	7'-0" 2'-0" 2'-10"	2-#8 2-#10	#3 12"
B 3	12 36	3'-10" 2'-6"	4-#8	#3 12"

FOR TYPICAL BEAM DETAIL SEE DWG. NO. 57



ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: K. STANLEY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974

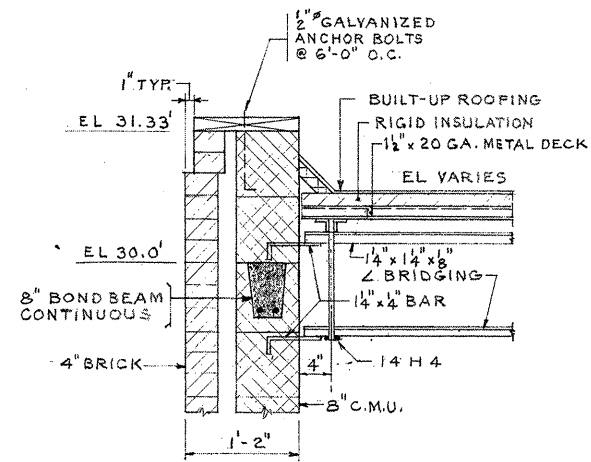
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Perry
 CITY OF TAUNTON

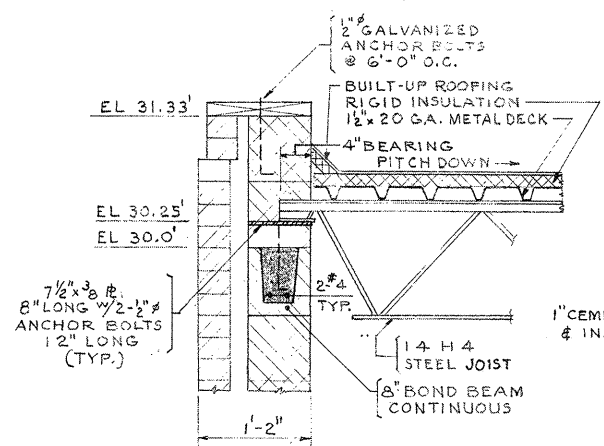
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

CHEMICAL HANDLING BUILDING
STRUCTURAL PLANS AND SECTIONS

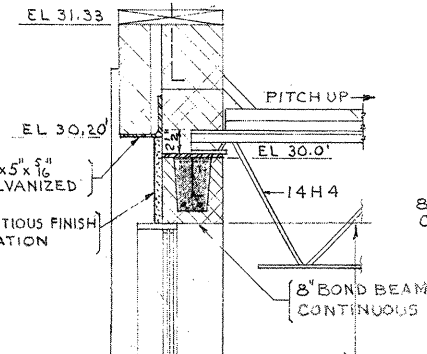
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 CEM NO. 1981
 DRAWING NO. **S-32**



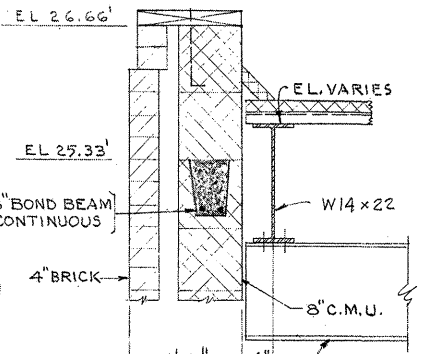
SECTION R1
SCALE: 1"=1'-0" S-32



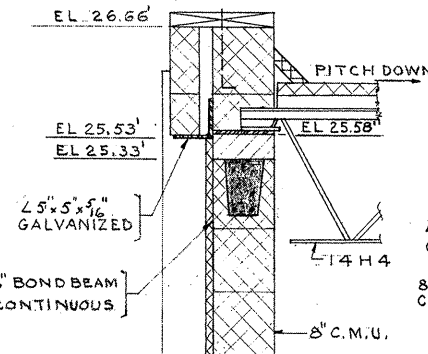
SECTION R2
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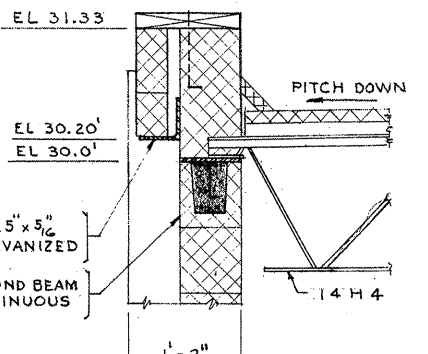
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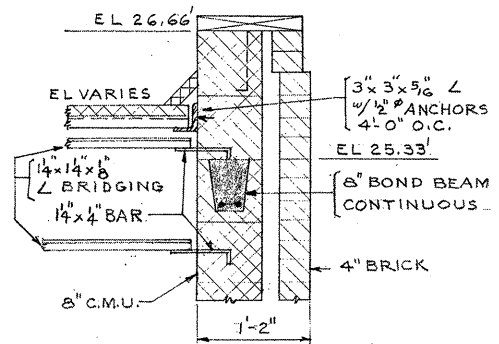
SECTION R4
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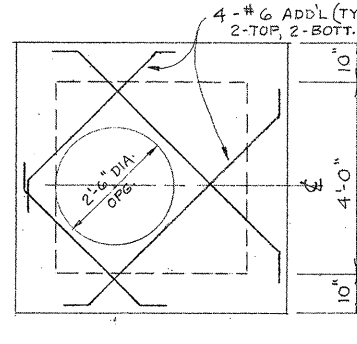
SECTION R5
SCALE: 1"=1'-0" S-32



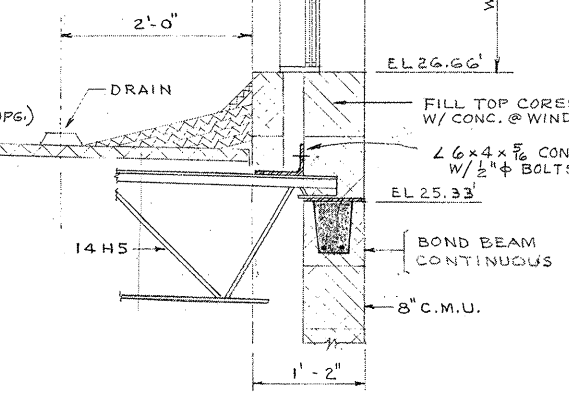
SECTION R6
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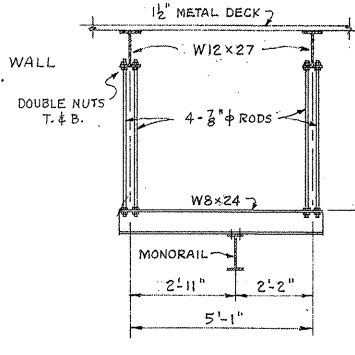
SECTION R7
SCALE: 1"=1'-0" S-32



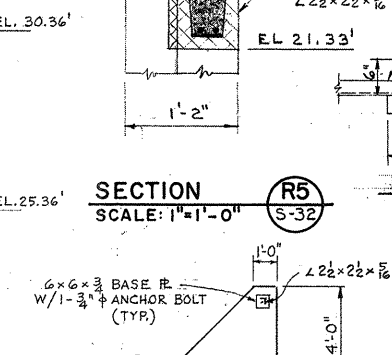
SECTION A-A
SCALE: 1/2"=1'-0"



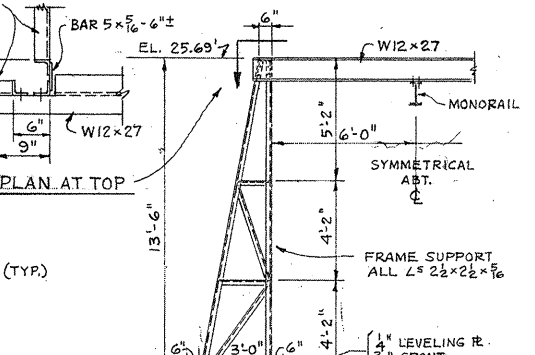
SECTION R3
SCALE: 1"=1'-0" S-32



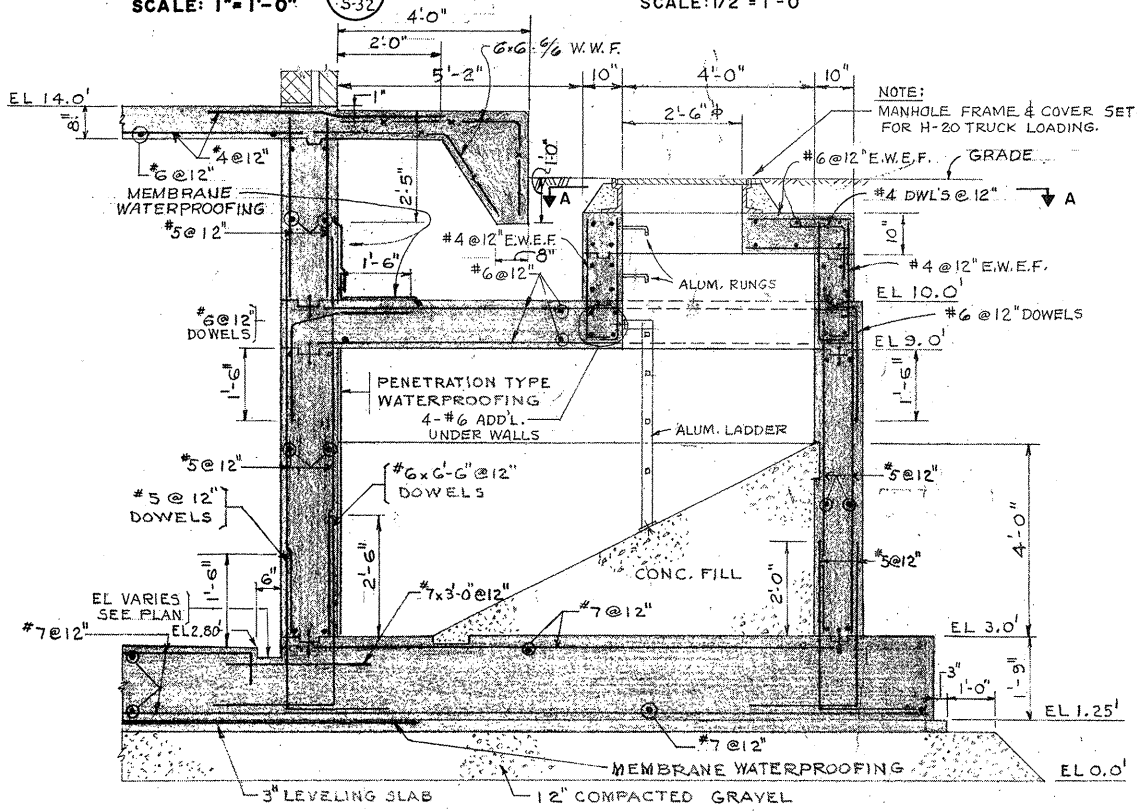
SECTION R8
SCALE: 3/8"=1'-0" S-32



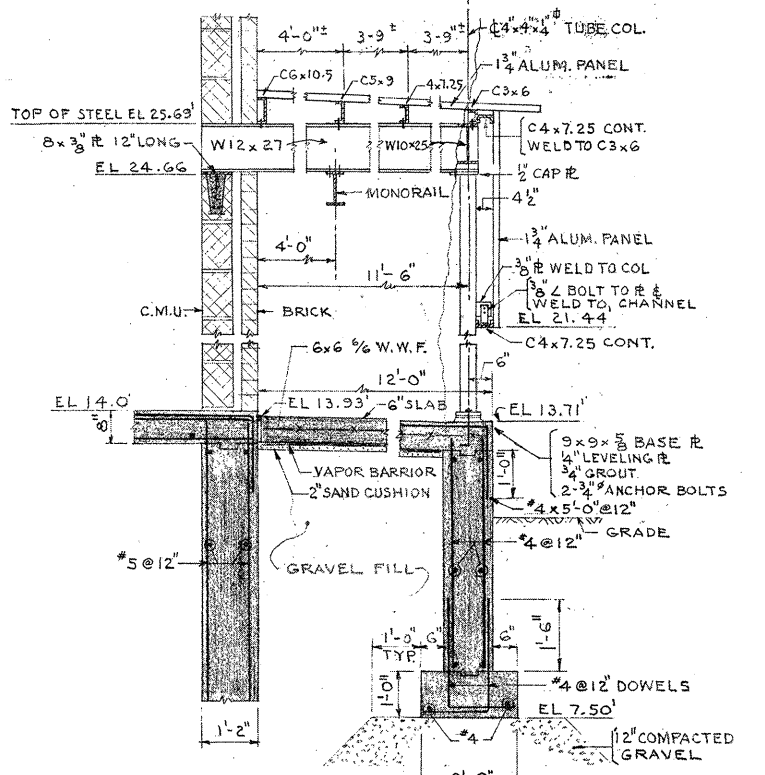
SECTION R5
SCALE: 1"=1'-0" S-32



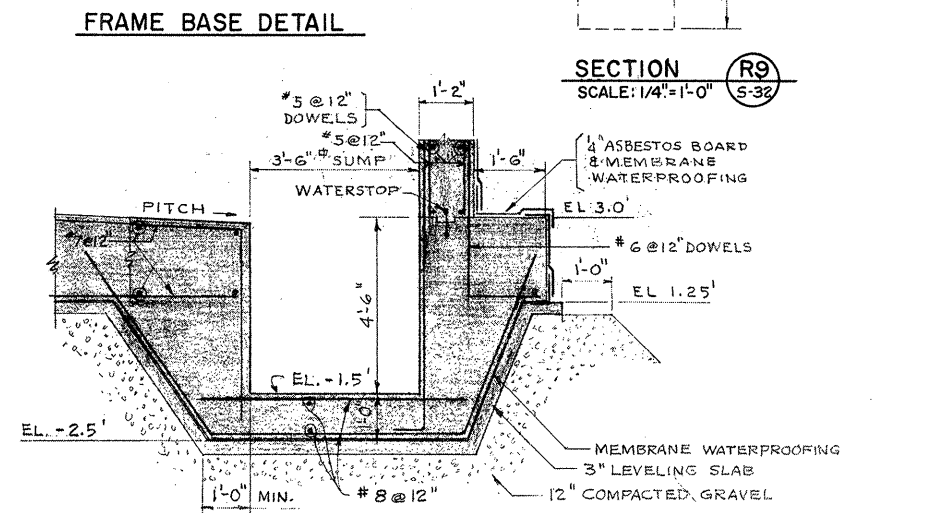
SECTION R9
SCALE: 1/4"=1'-0" S-32



SECTION F4
SCALE: 1/2"=1'-0" S-32



SECTION F5
SCALE: 1/2"=1'-0" S-32



SECTION F6
SCALE: 1/2"=1'-0" S-32

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

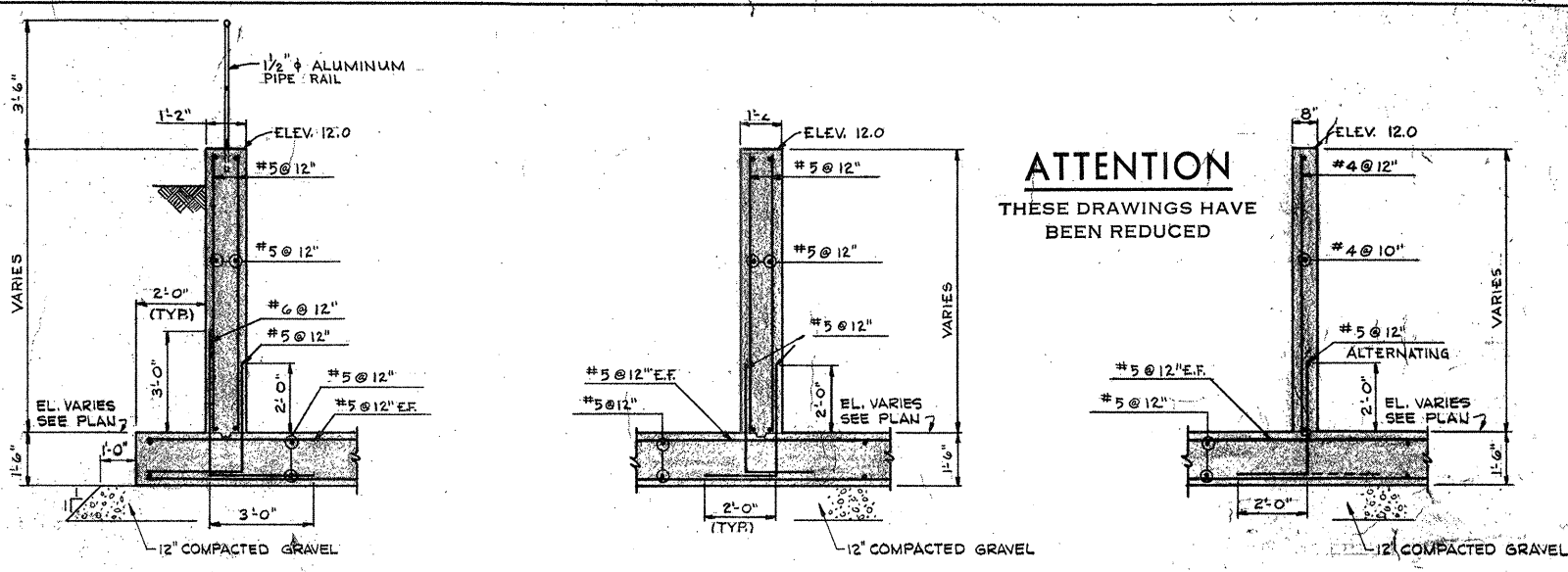
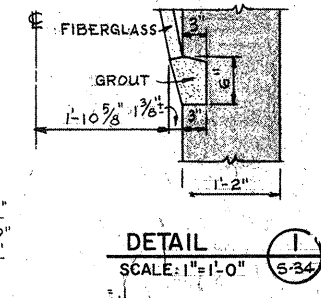
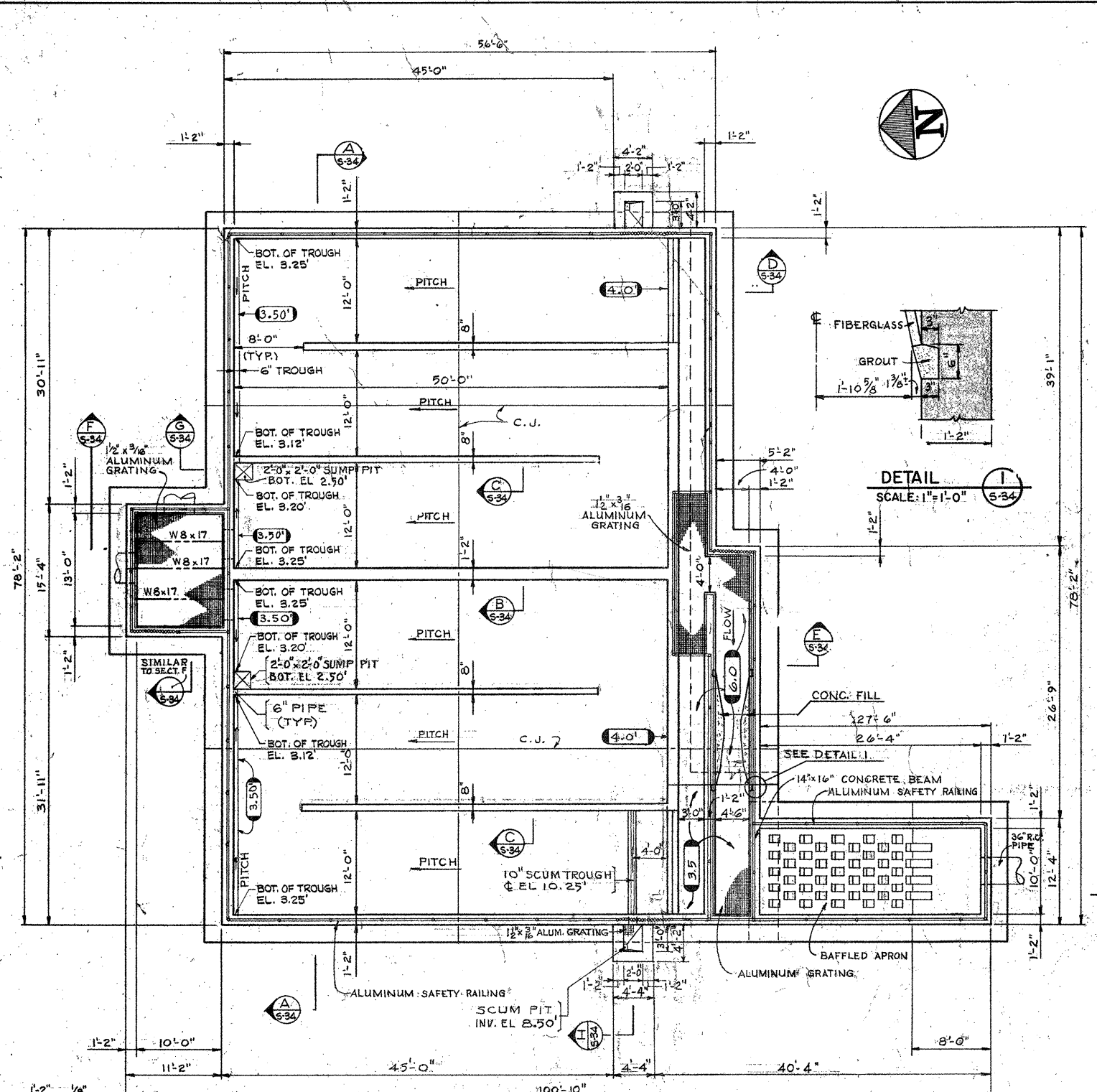


DRAWN: J. MURPHY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

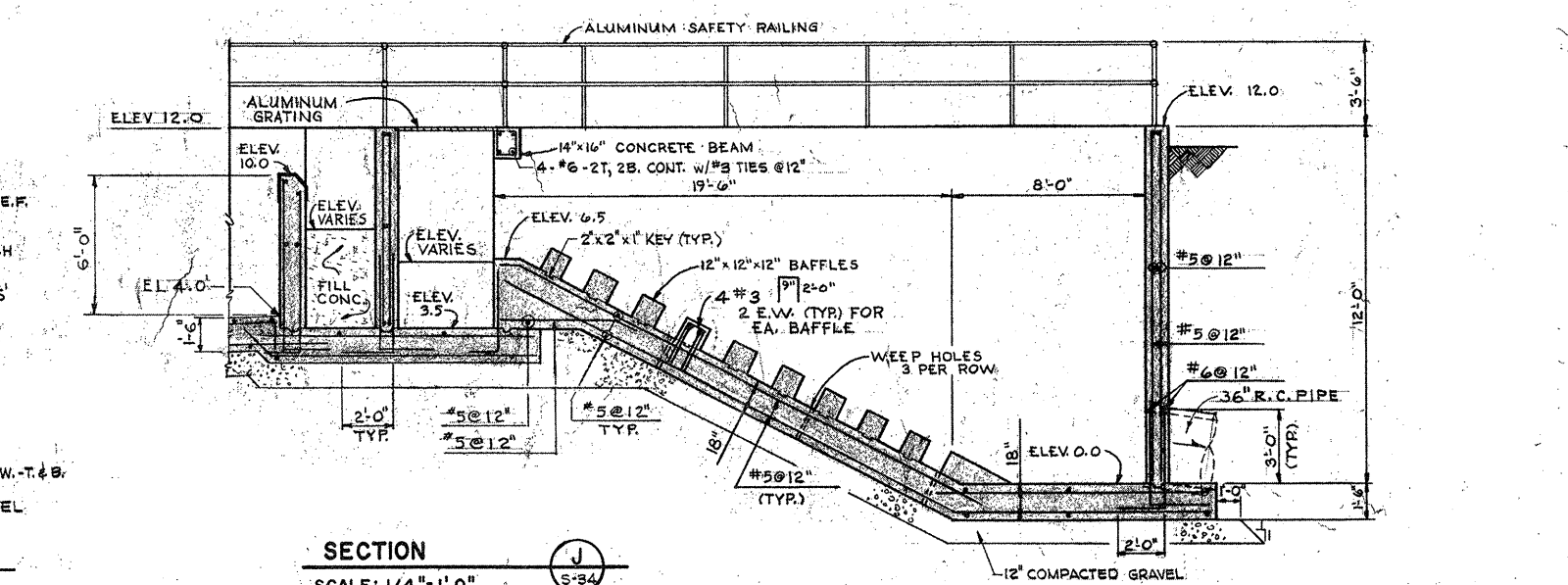
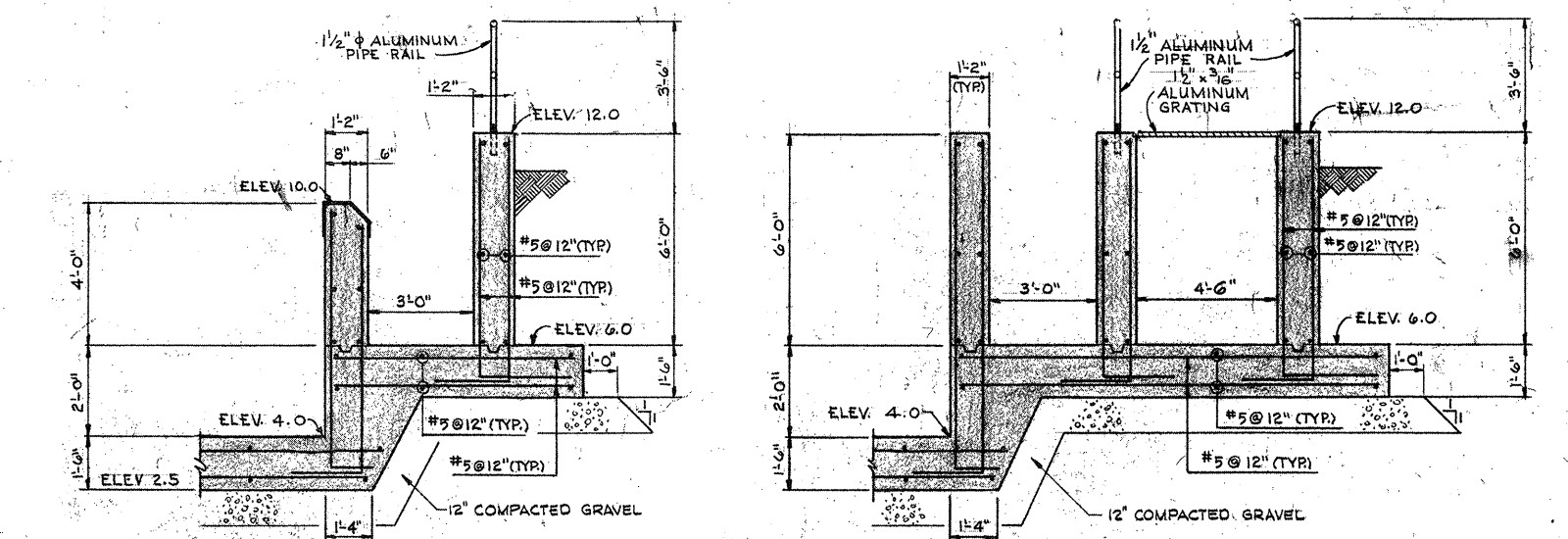
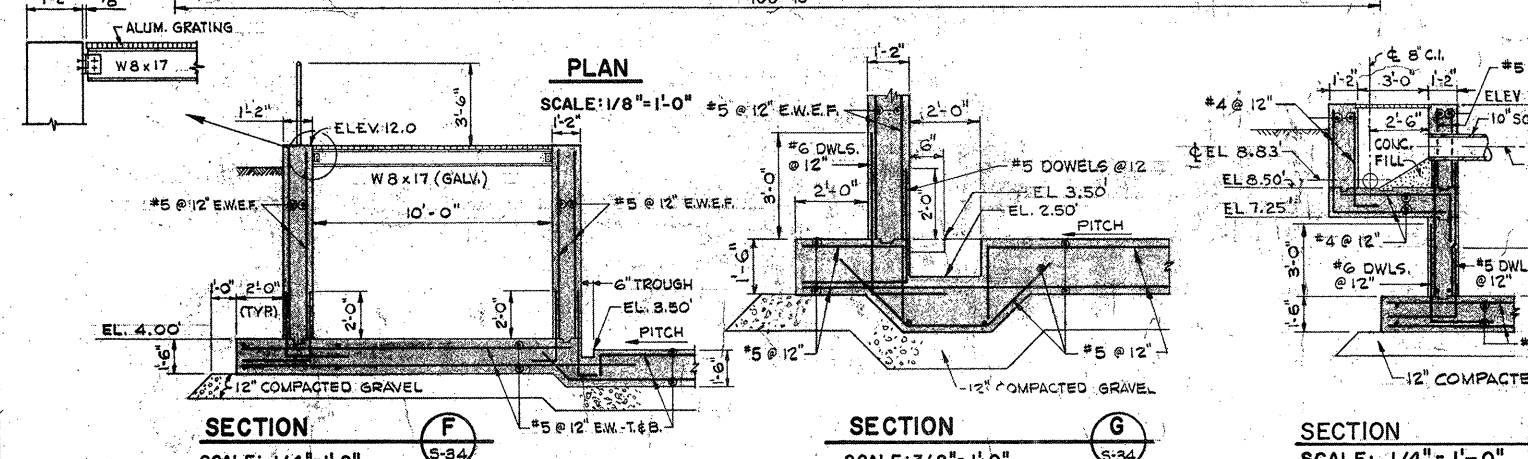
APPROVED
Charles G. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 CHEMICAL HANDLING BUILDING
STRUCTURAL SECTIONS

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
S-33



ATTENTION
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BEEN REDUCED



REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

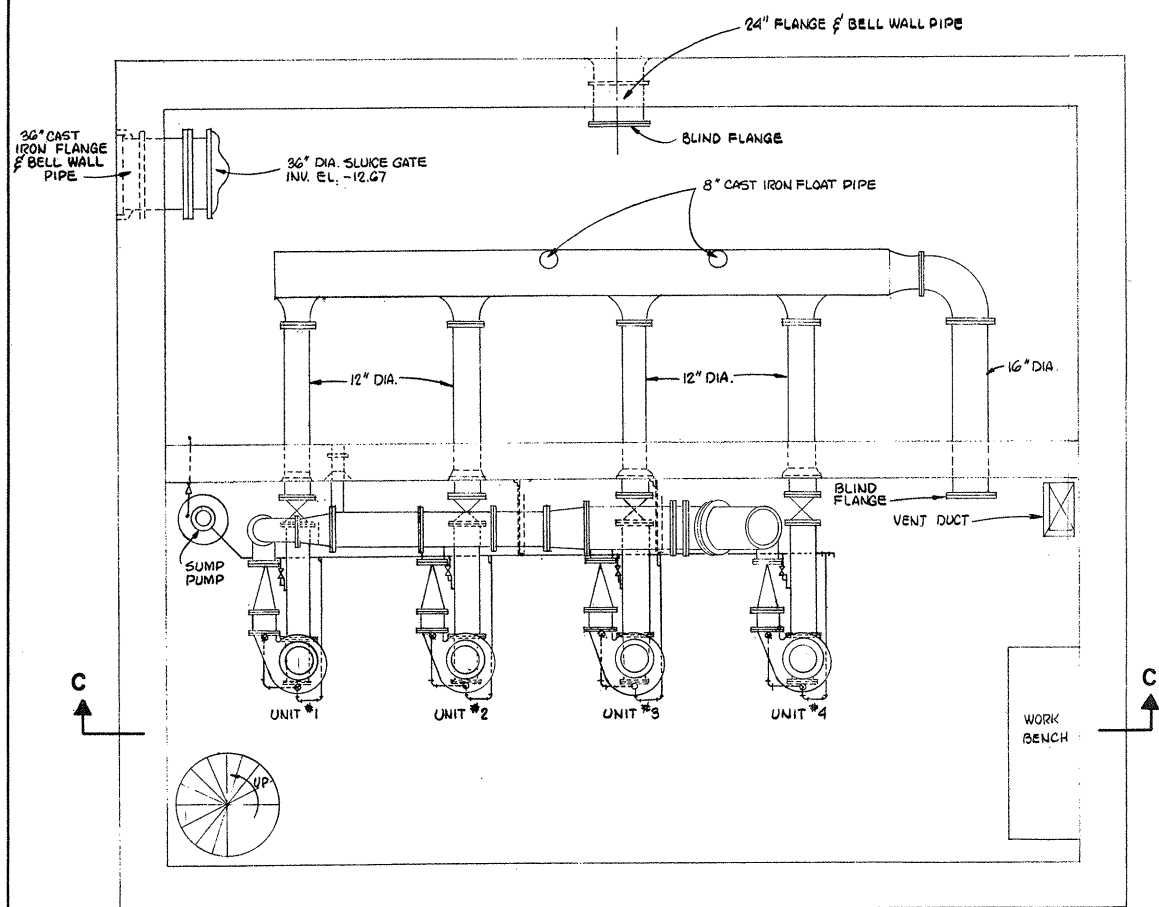
DRAWN: K. STANLEY DESIGNED: J. SHAH
 CHECKED: J. SHAH APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.



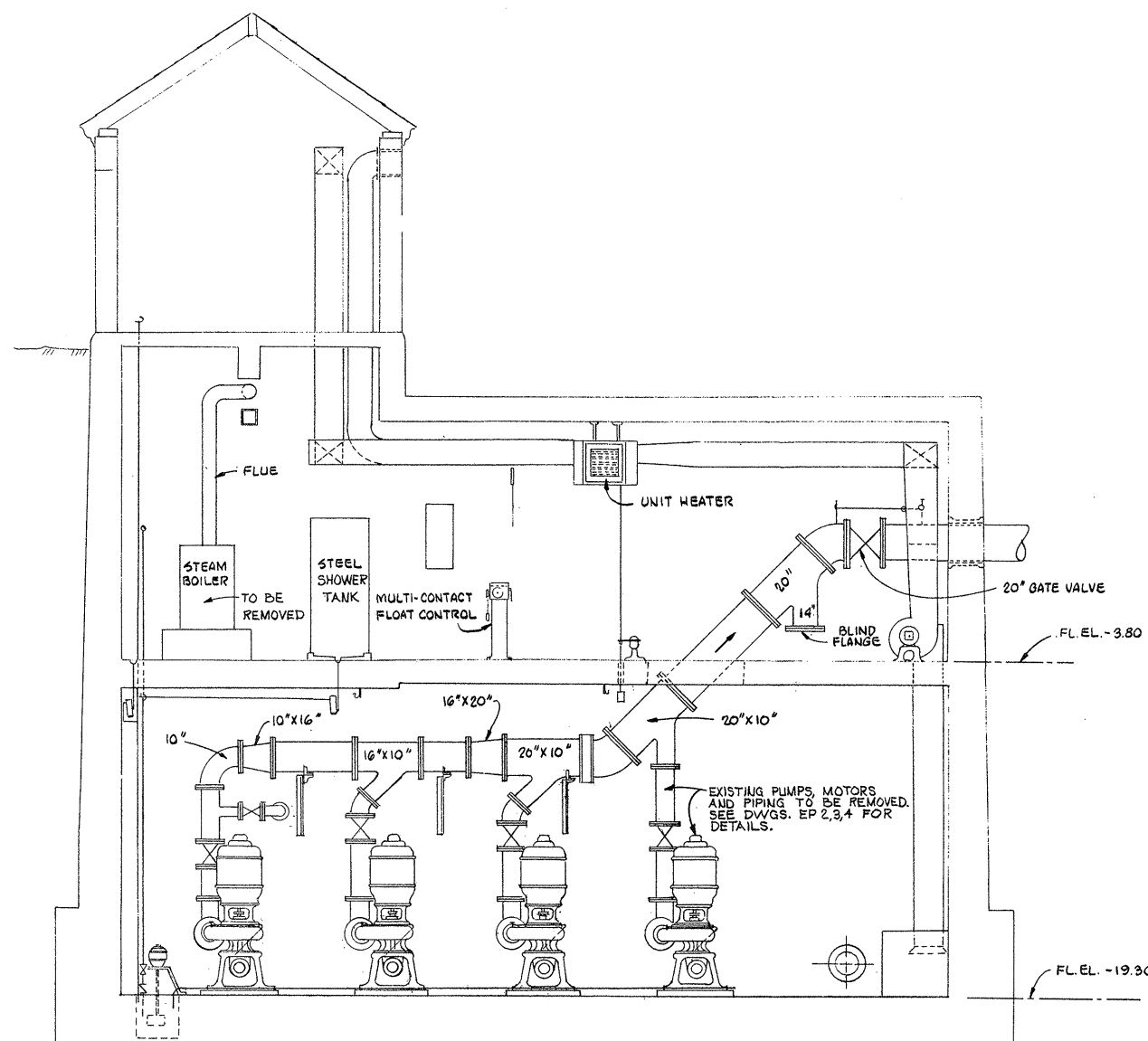
APPROVED
Charles A. King
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
CHLORINE CONTACT CHAMBER
STRUCTURAL
PLAN & SECTIONS

SCALE - AS NOTED
 CEM NO. 1981
 DRAWING NO.
S-34



PLAN



SECTION 'C-C'

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: F. OAKES DESIGNED: J. O'REILLY
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

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Charles A. Perry
 CITY OF TAUNTON

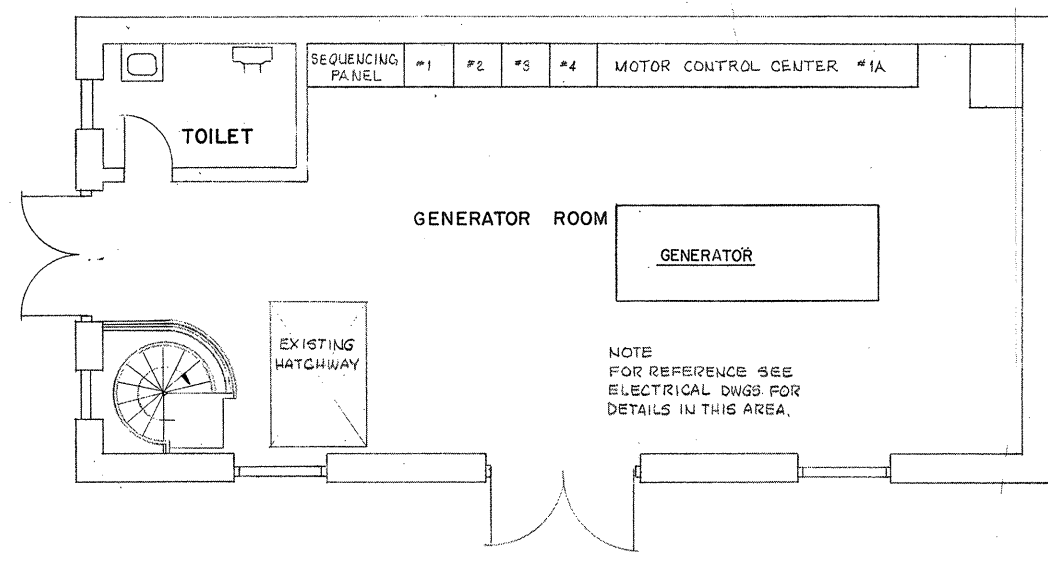
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

EXISTING RAW SEWAGE PUMPING STATION
 EQUIPMENT AND PIPING
 PLAN AND SECTION

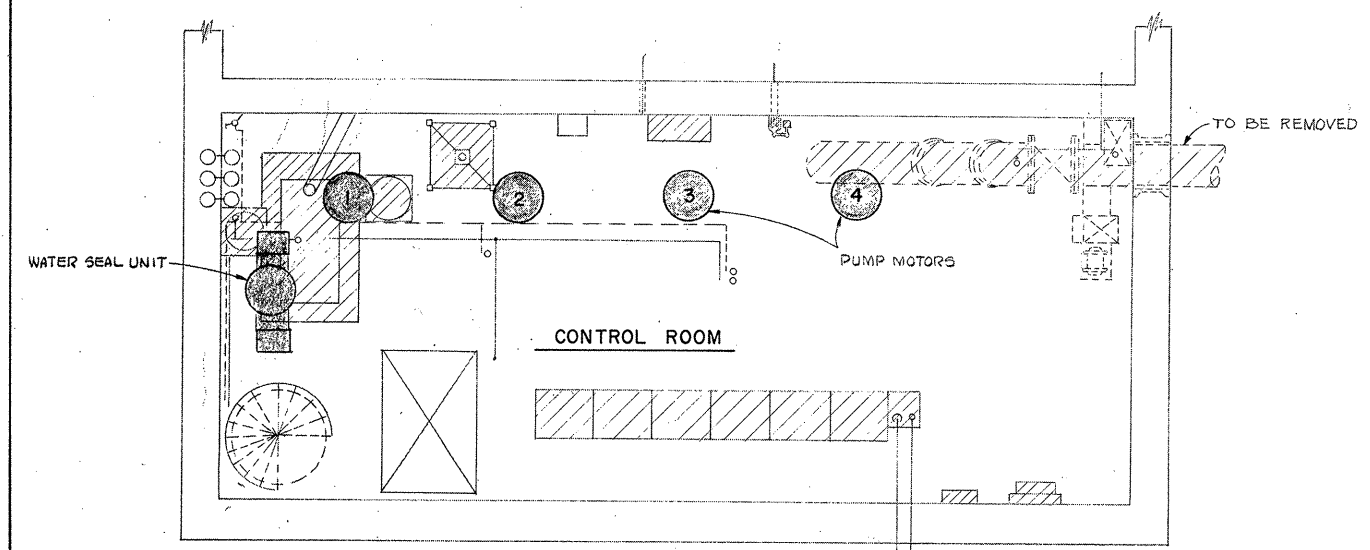
SCALE
 1/4" = 1'-0"

CEM NO. 1981

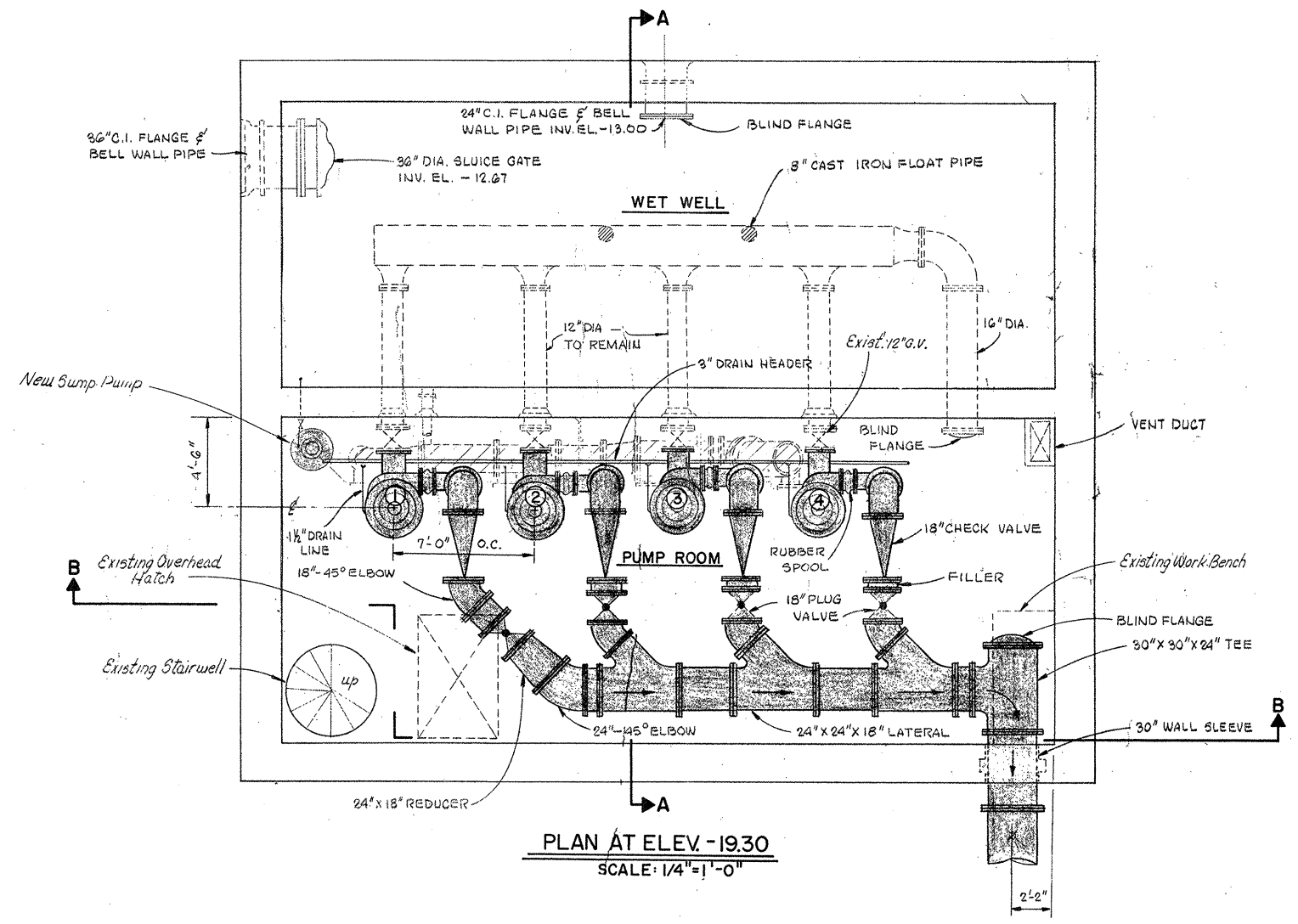
DRAWING NO.
EP-1



PLAN AT ELEV. 11.20
SCALE: 1/4" = 1'-0"



PLAN AT -3.80
SCALE: 1/4" = 1'-0"



PLAN AT ELEV. -19.30
SCALE: 1/4" = 1'-0"

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

- LEGEND**
- NEW PIPING & EQUIPMENT TO BE INSTALLED.
 - EXIST. PIPING & EQUIPMENT TO BE REMOVED.
 - EXIST. PIPING & EQUIPMENT TO REMAIN.
 - PLUG VALVE
 - CHECK VALVE
 - GATE VALVE

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: F. OAKES DESIGNED: J. O'REILLY
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

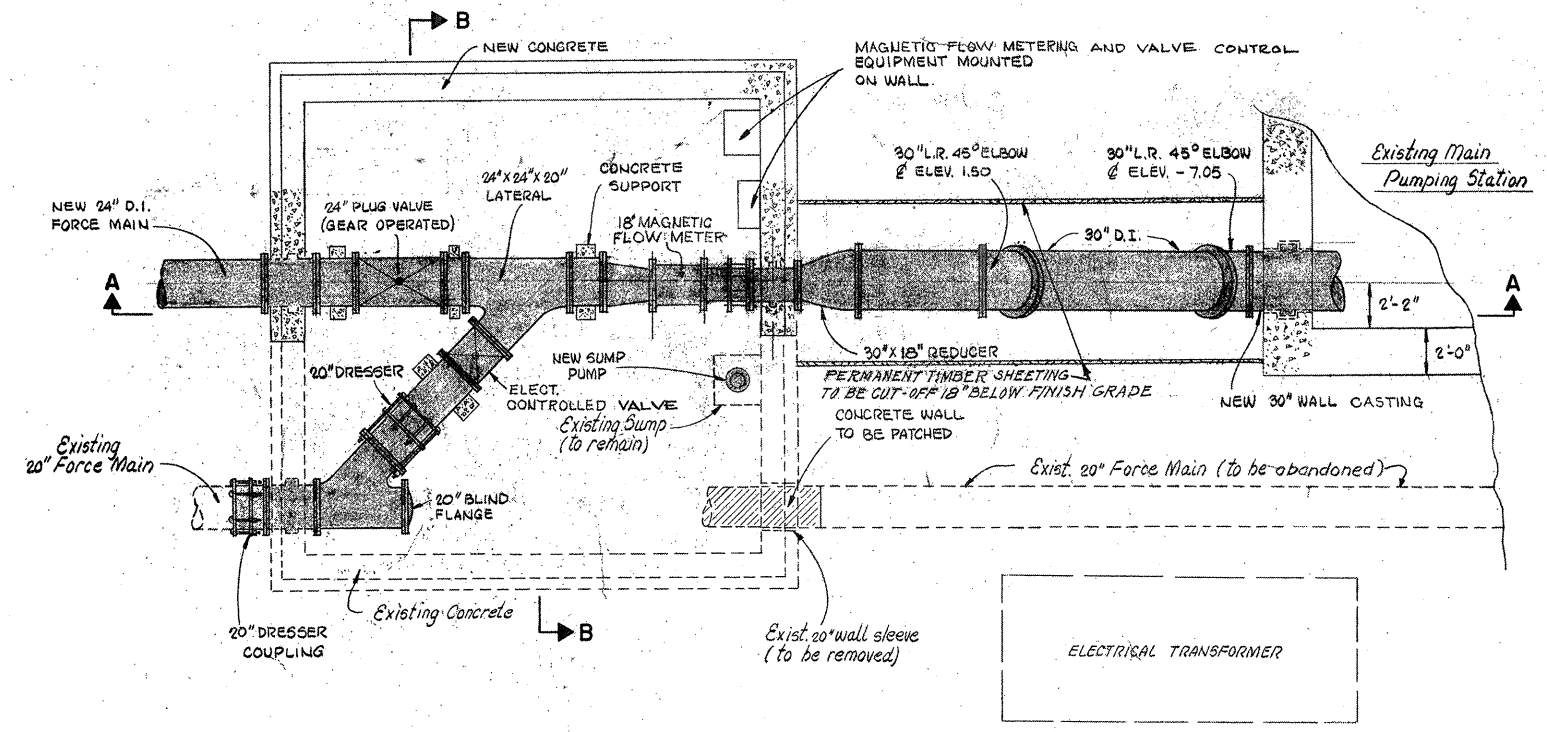
APPROVED

 CITY OF TAUNTON

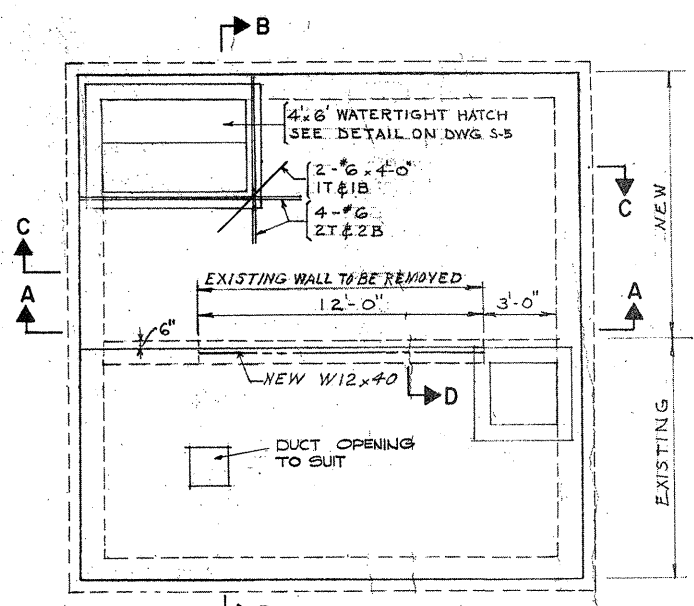
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 EXISTING RAW SEWAGE PUMPING STATION
EQUIPMENT AND PIPING PLANS

SCALE
 1/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
EP-2

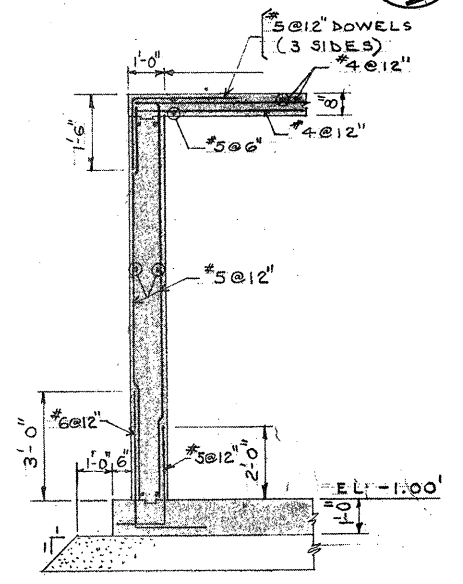
5700 GPM @ 78' TDH, 4 PUMPS RUNNING



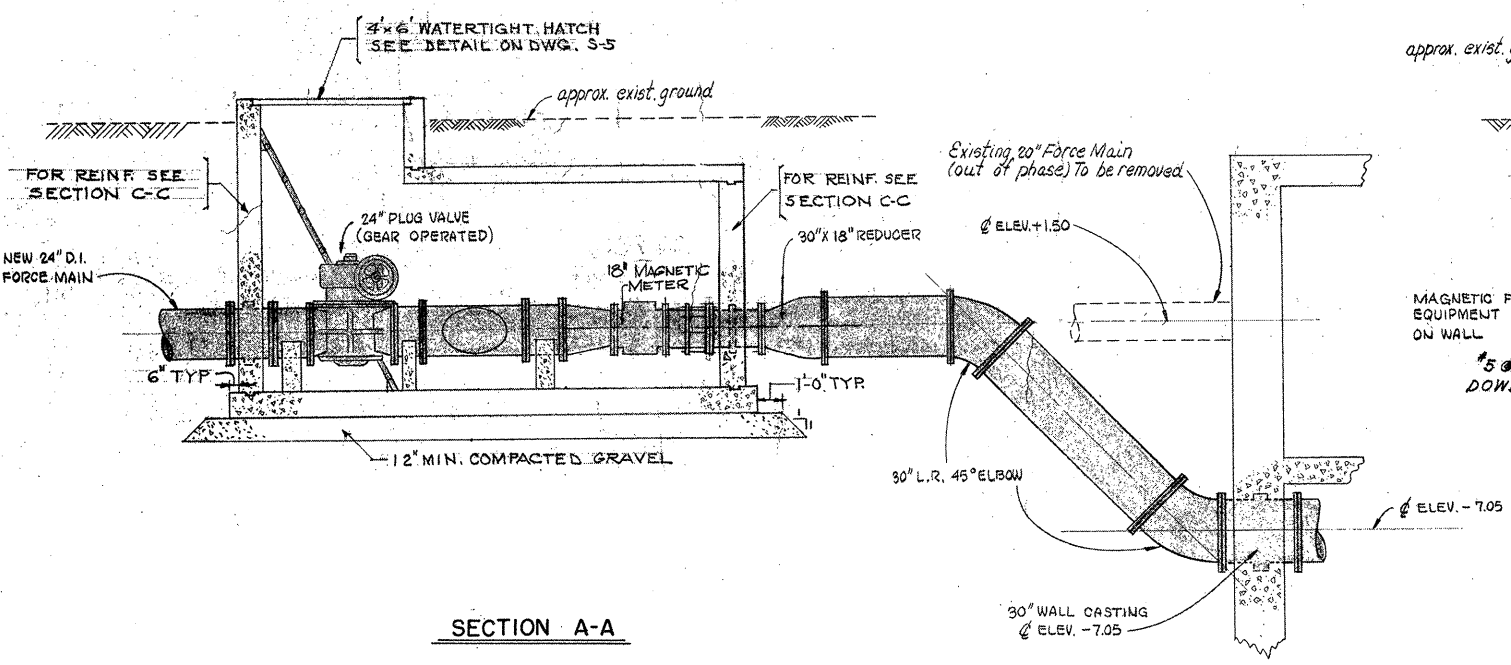
PLAN AT ELEV. -1.00



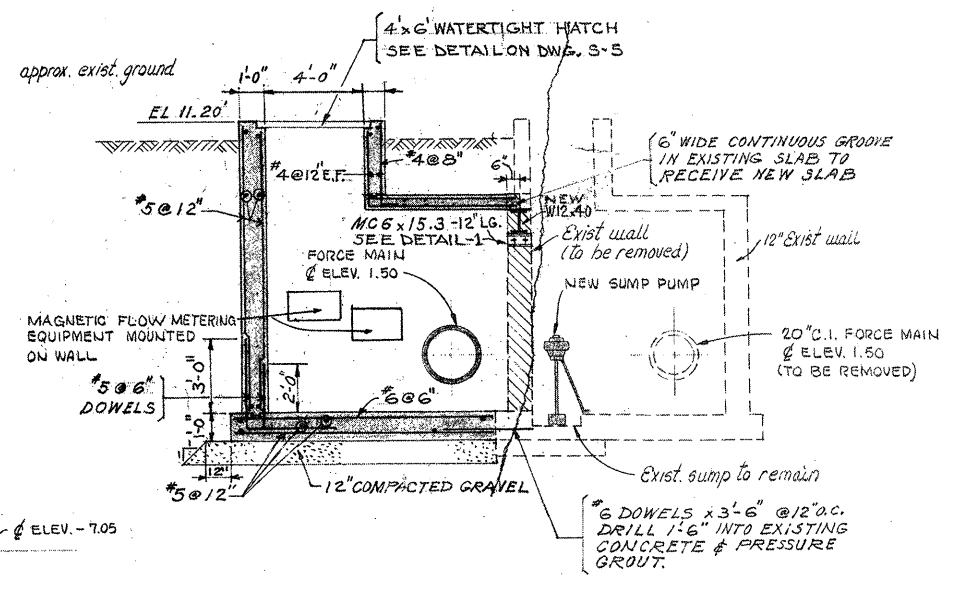
PLAN AT ELEV. 10.20



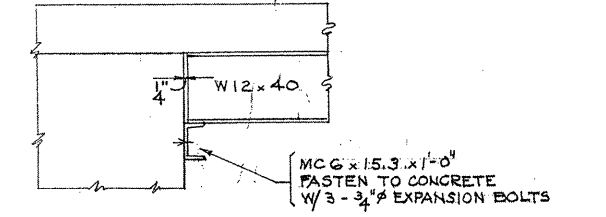
SECTION C-C
SCALE 3/8"=1'-0"



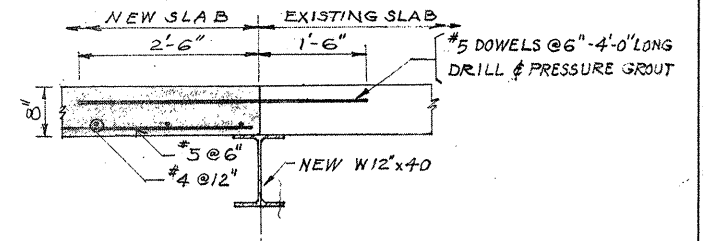
SECTION A-A



SECTION B-B



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



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

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: F. OAKES DESIGNED: G. MANTER
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

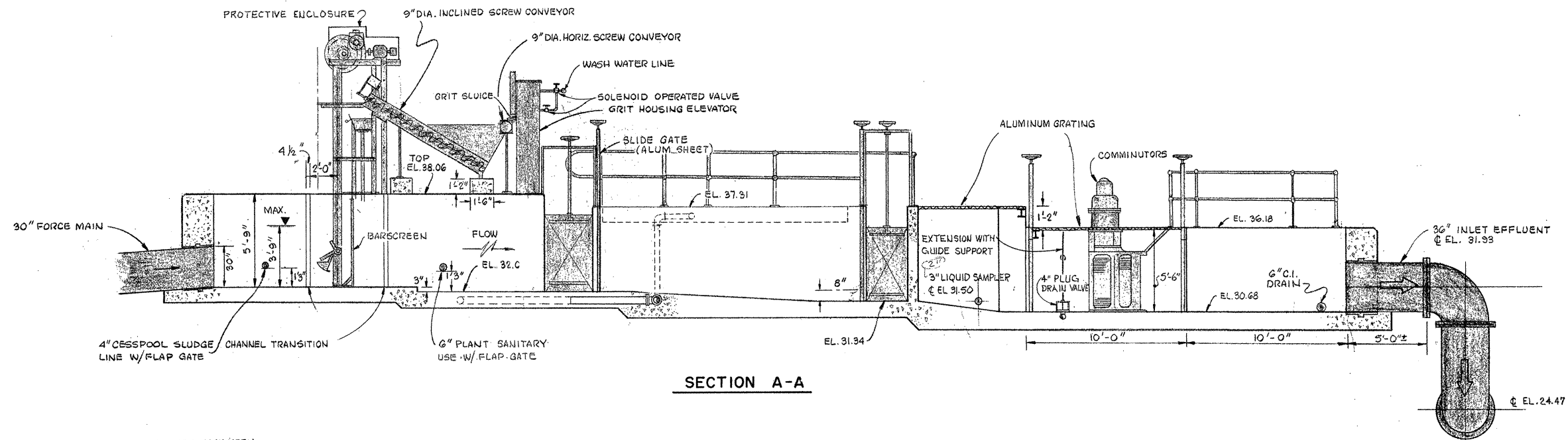
CE MAGUIRE, INC.
 ARCHITECTS - ENGINEERS - PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED

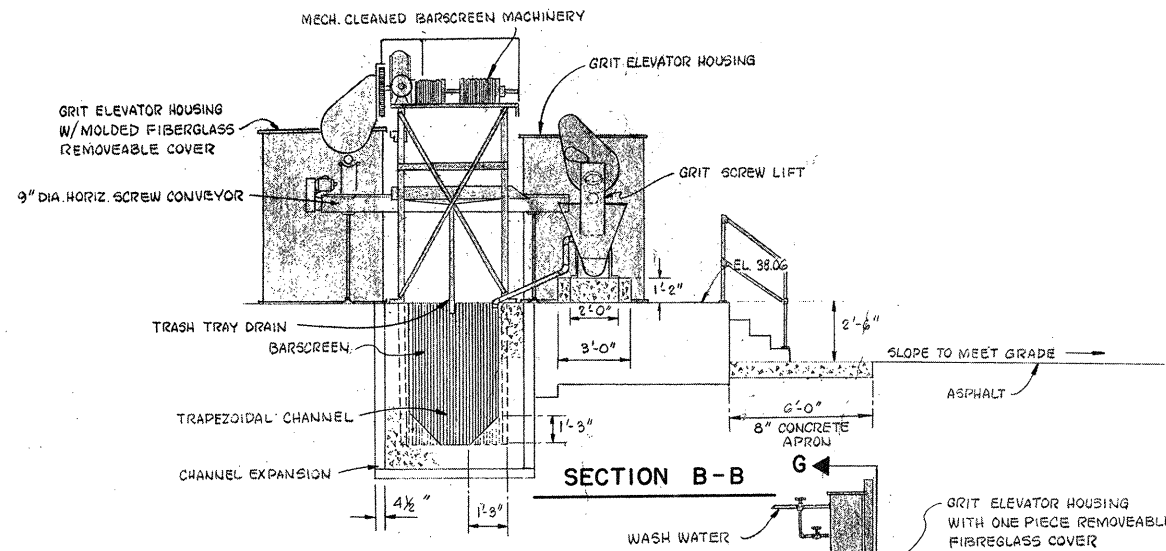
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 ALTERATIONS TO EXISTING METER PIT
 EQUIPMENT AND PIPING
 PLAN AND SECTIONS

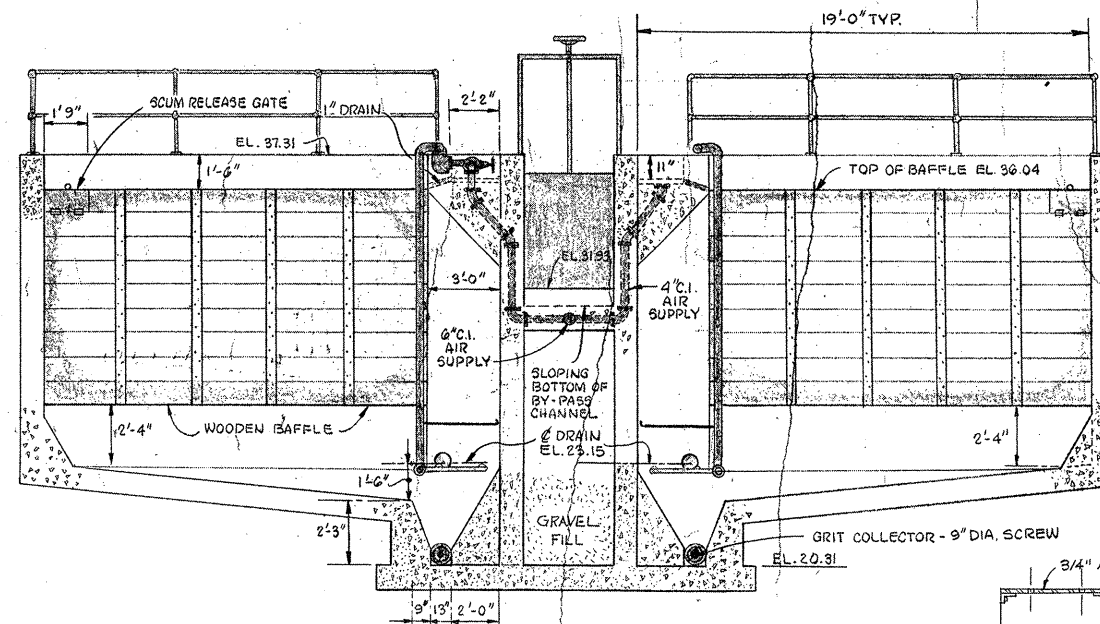
SCALE
 1/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
EP-4



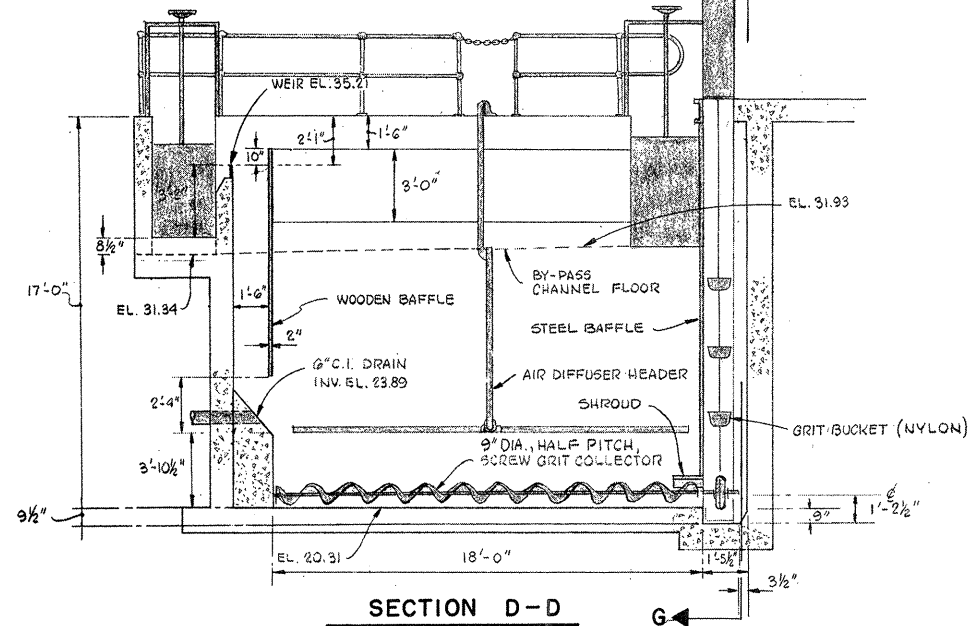
SECTION A-A



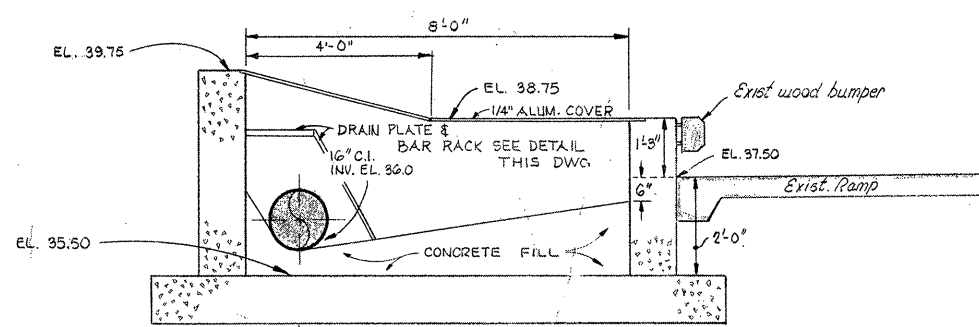
SECTION B-B



SECTION C-C

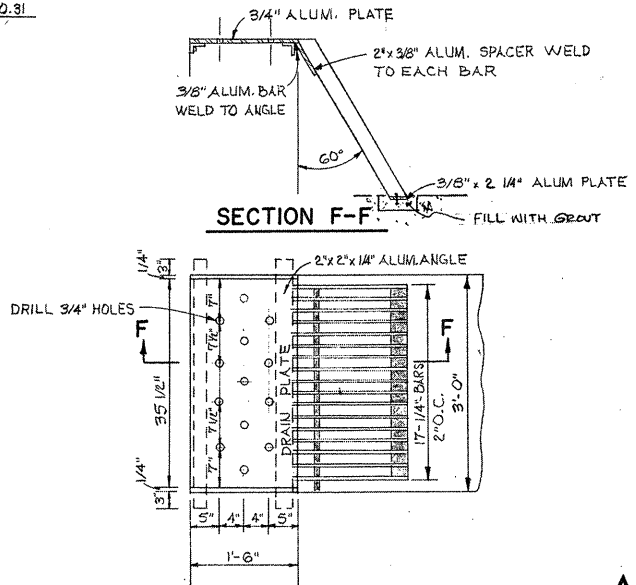


SECTION D-D



SECTION E-E

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

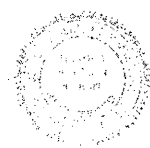


ALUM. DRAIN PLATE DETAIL

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

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: F. OAKES DESIGNED: J. O'REILLY
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED

Charles A. Kelly
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

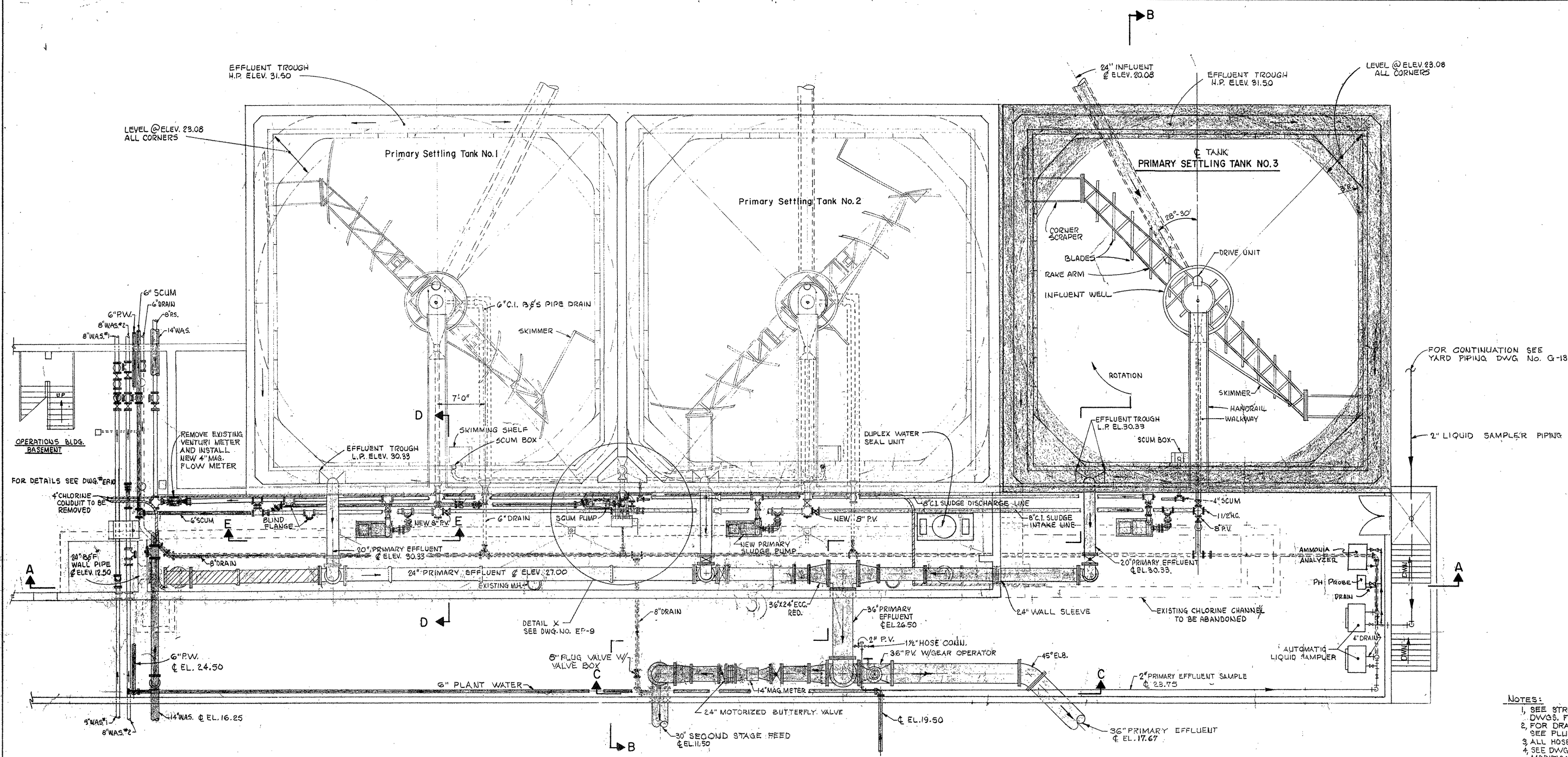
INLET WORKS
EQUIPMENT AND PIPING
SECTIONS

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

CEM NO. 1981

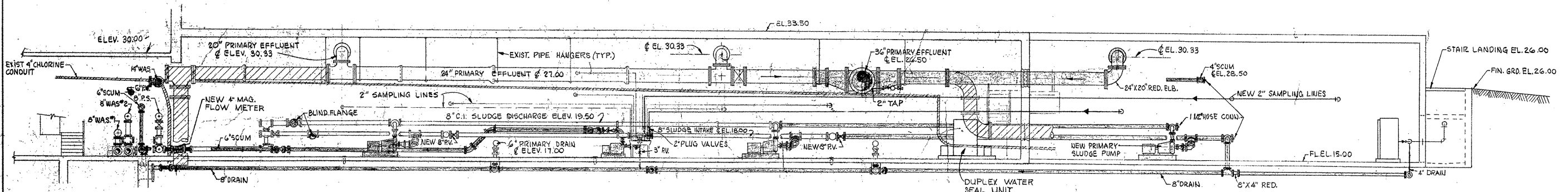
DRAWING NO.

EP-6



PLAN - PRIMARY SETTLING TANKS & PIPE GALLERY
SCALE: 1/8" = 1'-0"

- NOTES:**
- SEE STRUCTURAL & ARCHITECTURAL DWGS. FOR REFERENCE.
 - FOR DRAINS AND WATER PIPING SEE PLUMBING DWGS. FOR DETAILS.
 - ALL HOSE CONNECTIONS TO BE 1 1/2".
 - SEE DWG. NO. EP-10 FOR EXISTING AND MODIFICATIONS TO PIPE GALLERY.



SECTION A-A

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



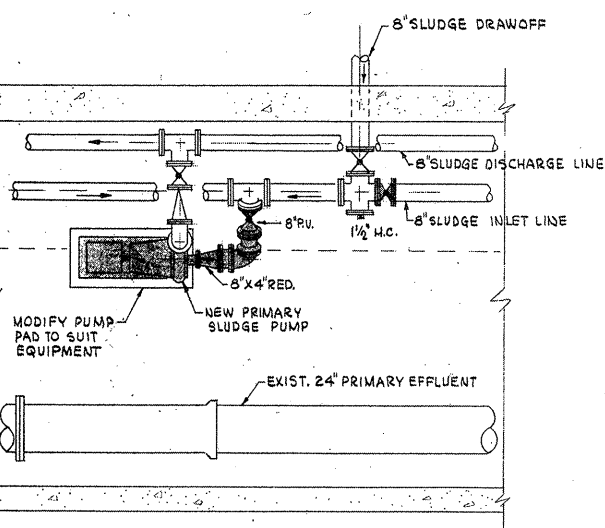
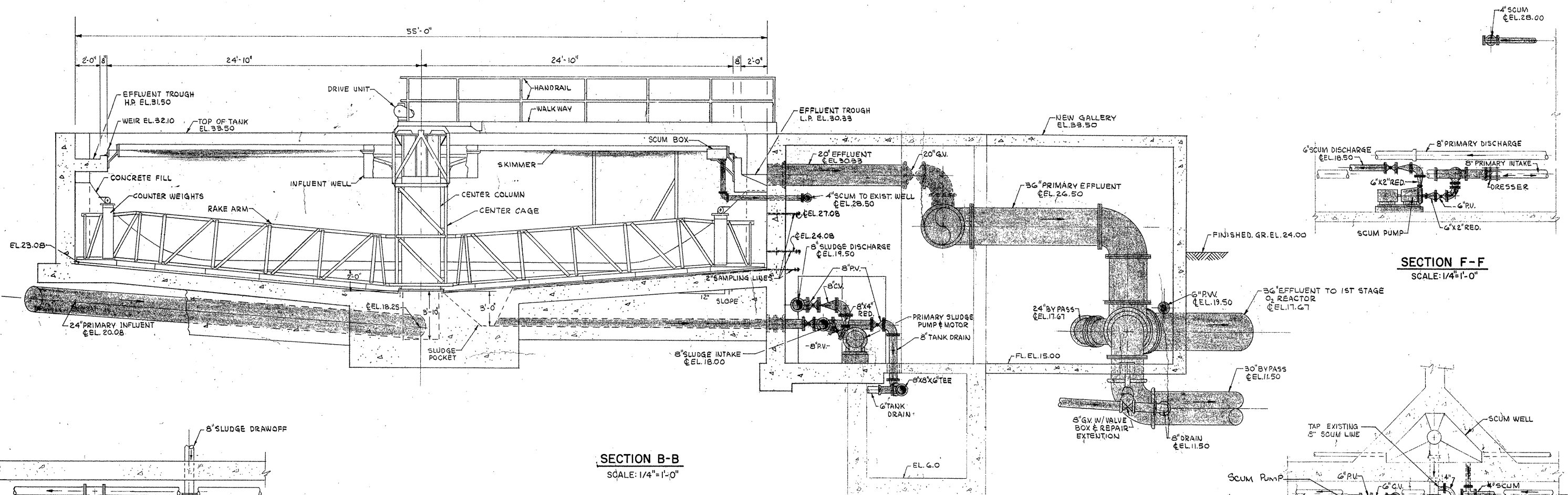
DRAWN: F. OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS - ENGINEERS - PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Long
 CITY OF TAUNTON

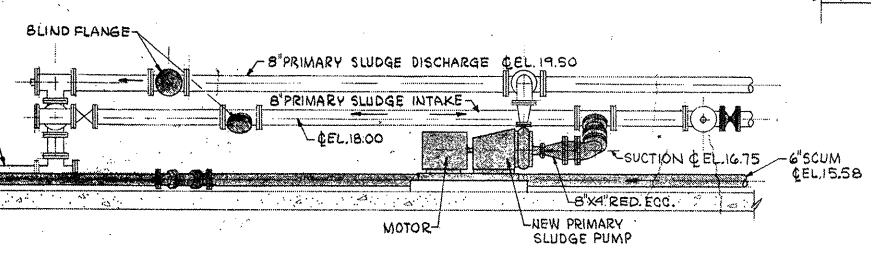
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 MODIFIED PRIMARY SETTLING TANKS AND PIPING GALLERY
 EQUIPMENT AND PIPING
 PLAN AND SECTION

SCALE:
 1/8" = 1'-0"
 CEM NO. 1081
 DRAWING NO.
EP-8

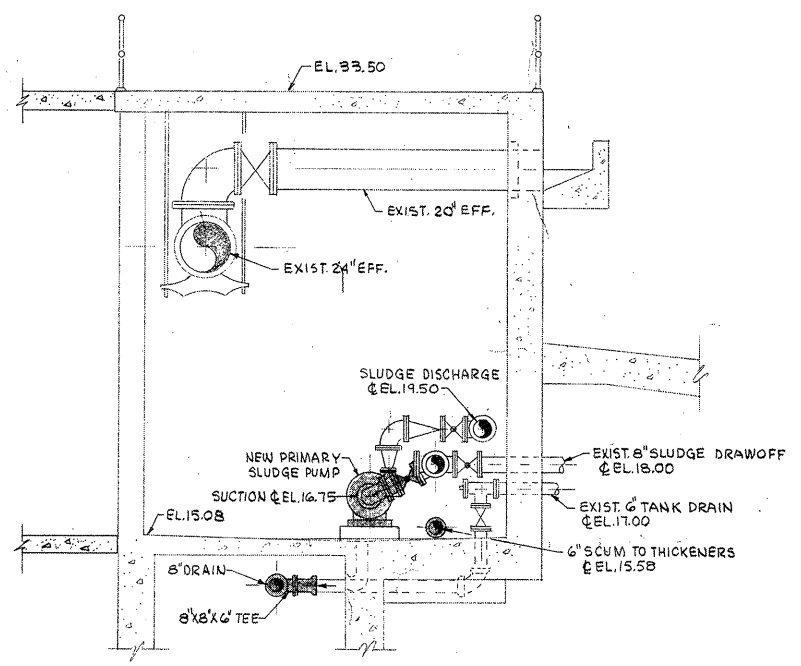


SECTION B-B
SCALE: 1/4"=1'-0"

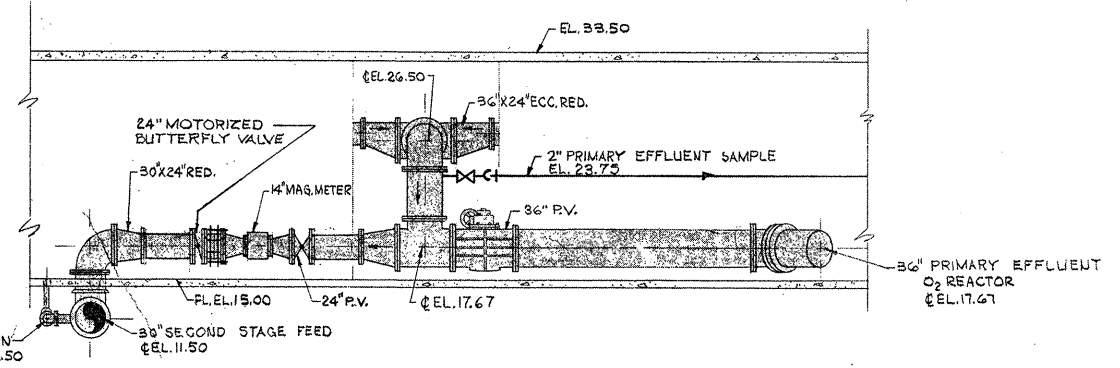
PRIMARY SLUDGE PUMP TYPICAL
PLAN
SCALE: 1/4"=1'-0"



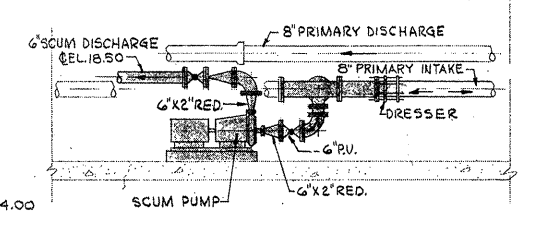
SECTION E-E
SCALE: 1/4"=1'-0"



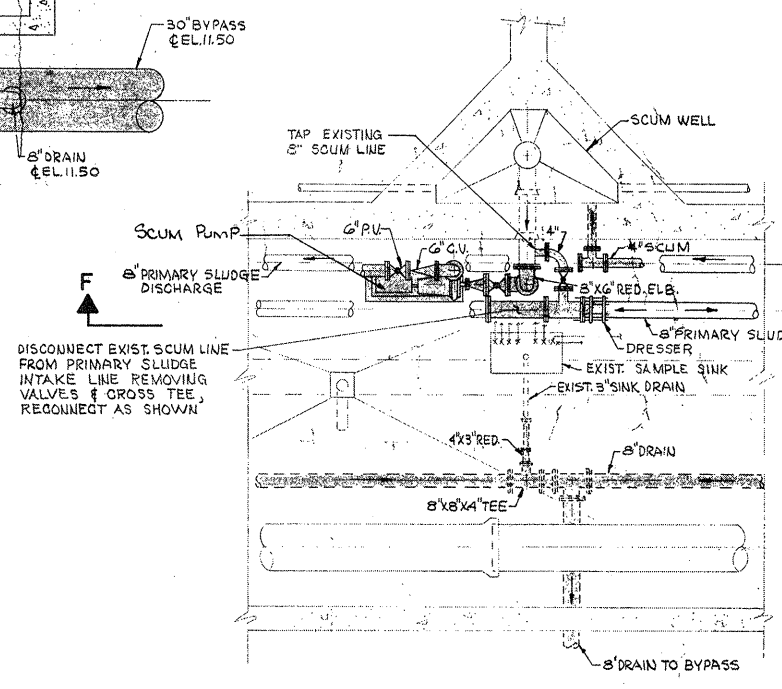
SECTION D-D
SCALE: 1/4"=1'-0"



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



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



DETAIL X
PLAN
SCALE: 1/4"=1'-0"

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



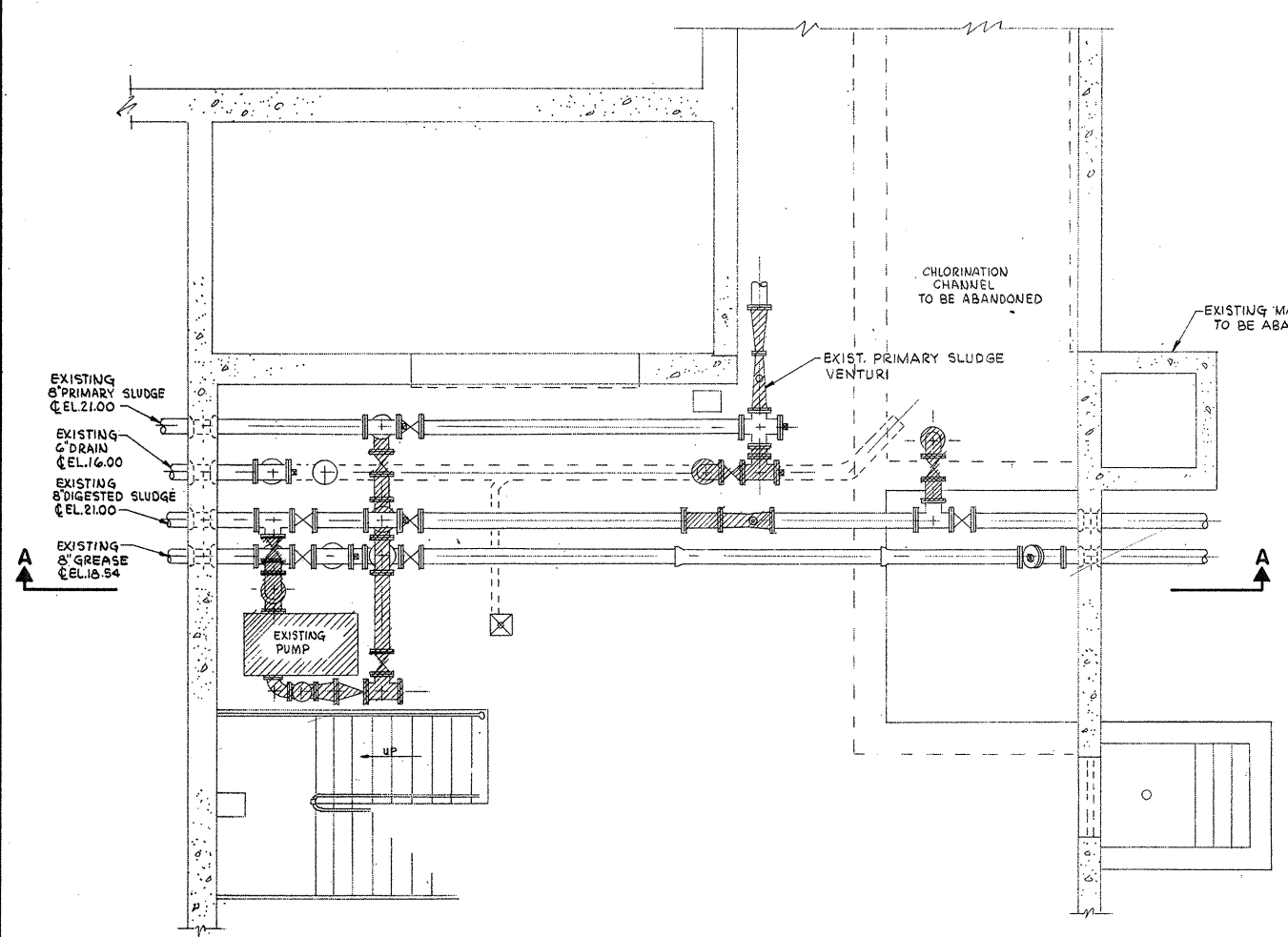
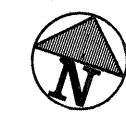
DRAWN: A. MCGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

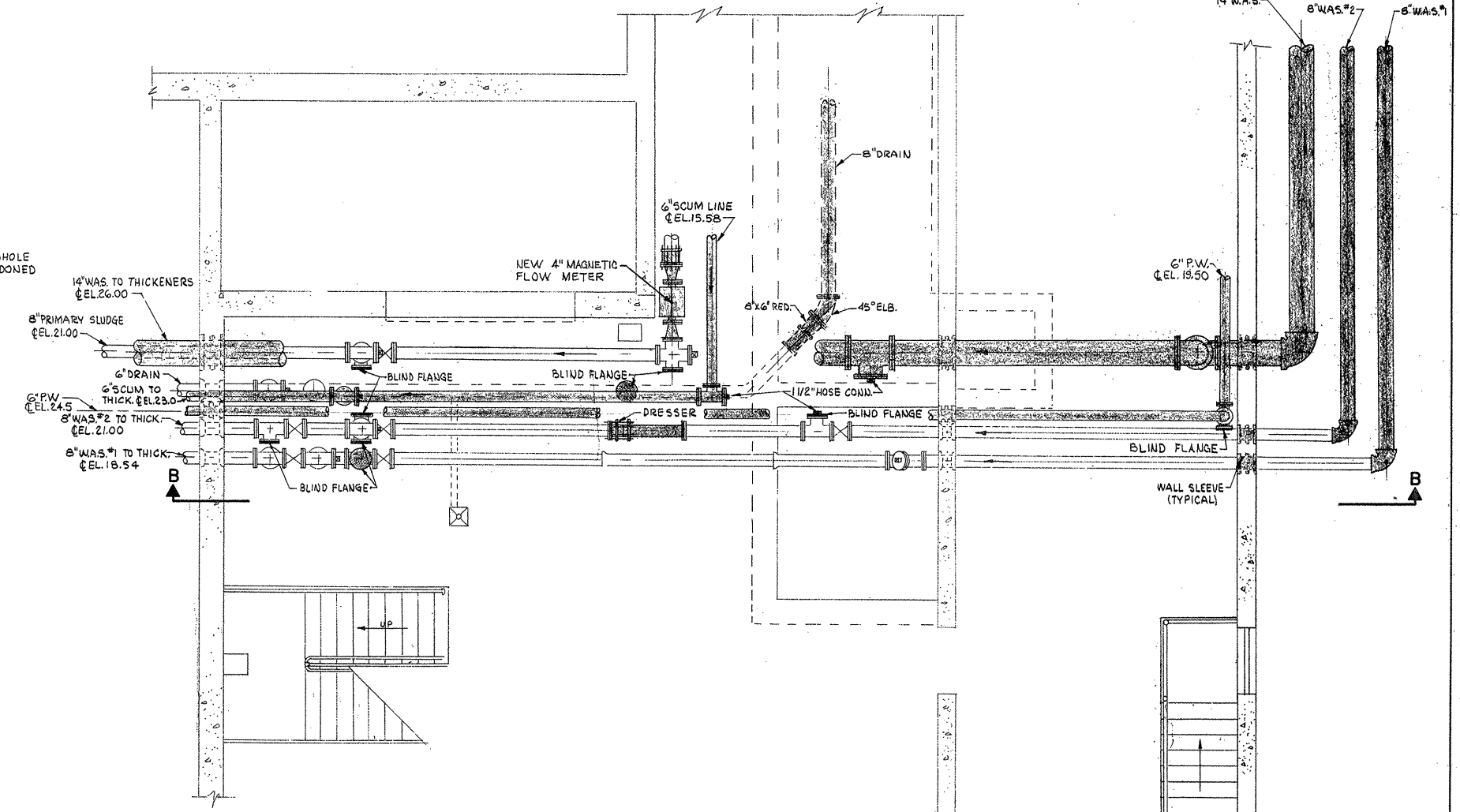
APPROVED
Charles A. Maguire
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 MODIFIED PRIMARY SETTLING TANKS AND PIPING GALLERY
 EQUIPMENT AND PIPING
 PLANS AND SECTIONS

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
EP-9

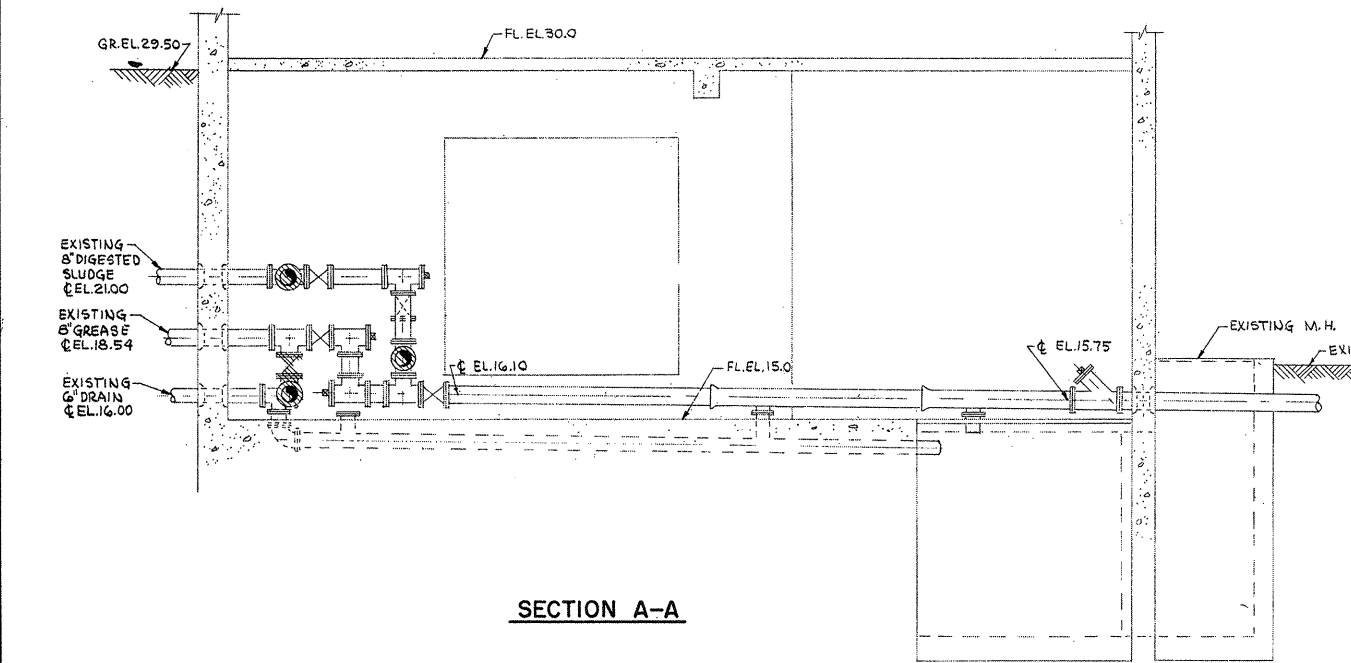


PLAN
(Existing To Be Removed)

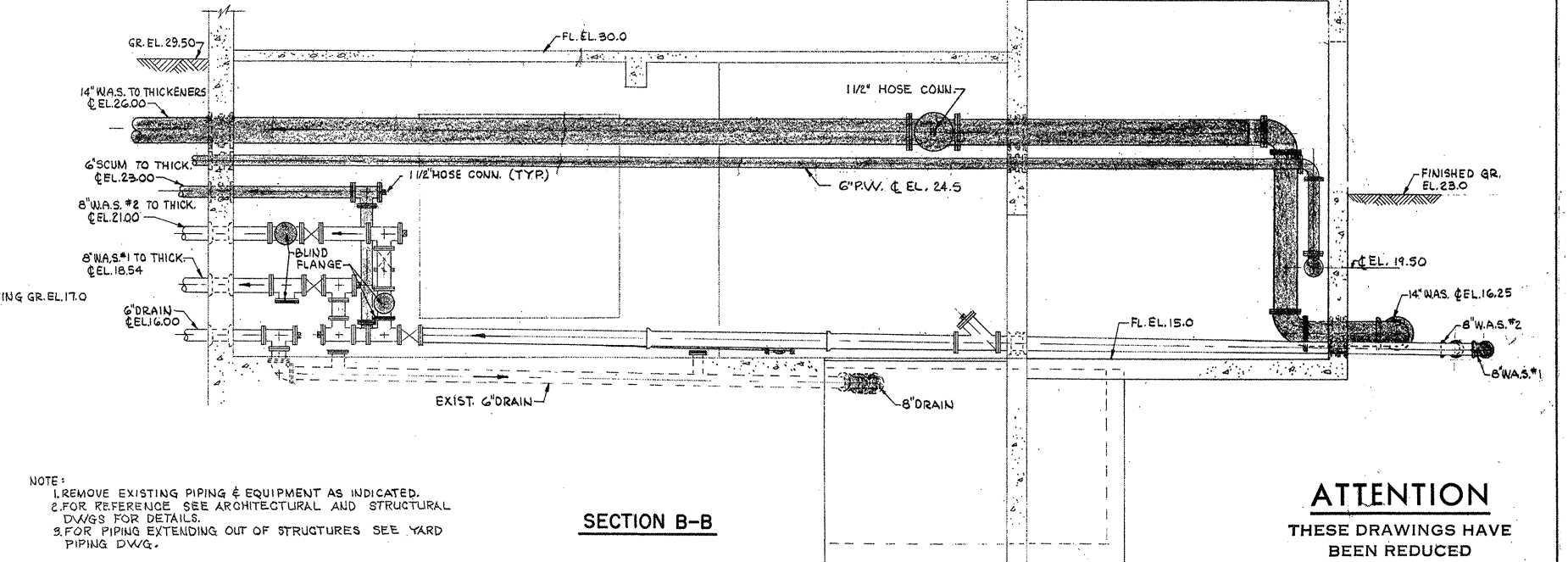


PLAN
(New Piping To Be Installed)

LEGEND:
 EXISTING PIPING TO BE REMOVED
 NEW PIPING TO BE INSTALLED
 EXISTING PIPING TO REMAIN



SECTION A-A



SECTION B-B

NOTE:
 1. REMOVE EXISTING PIPING & EQUIPMENT AS INDICATED.
 2. FOR REFERENCE SEE ARCHITECTURAL AND STRUCTURAL DWGS FOR DETAILS.
 3. FOR PIPING EXTENDING OUT OF STRUCTURES SEE YARD PIPING DWG.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	DATE



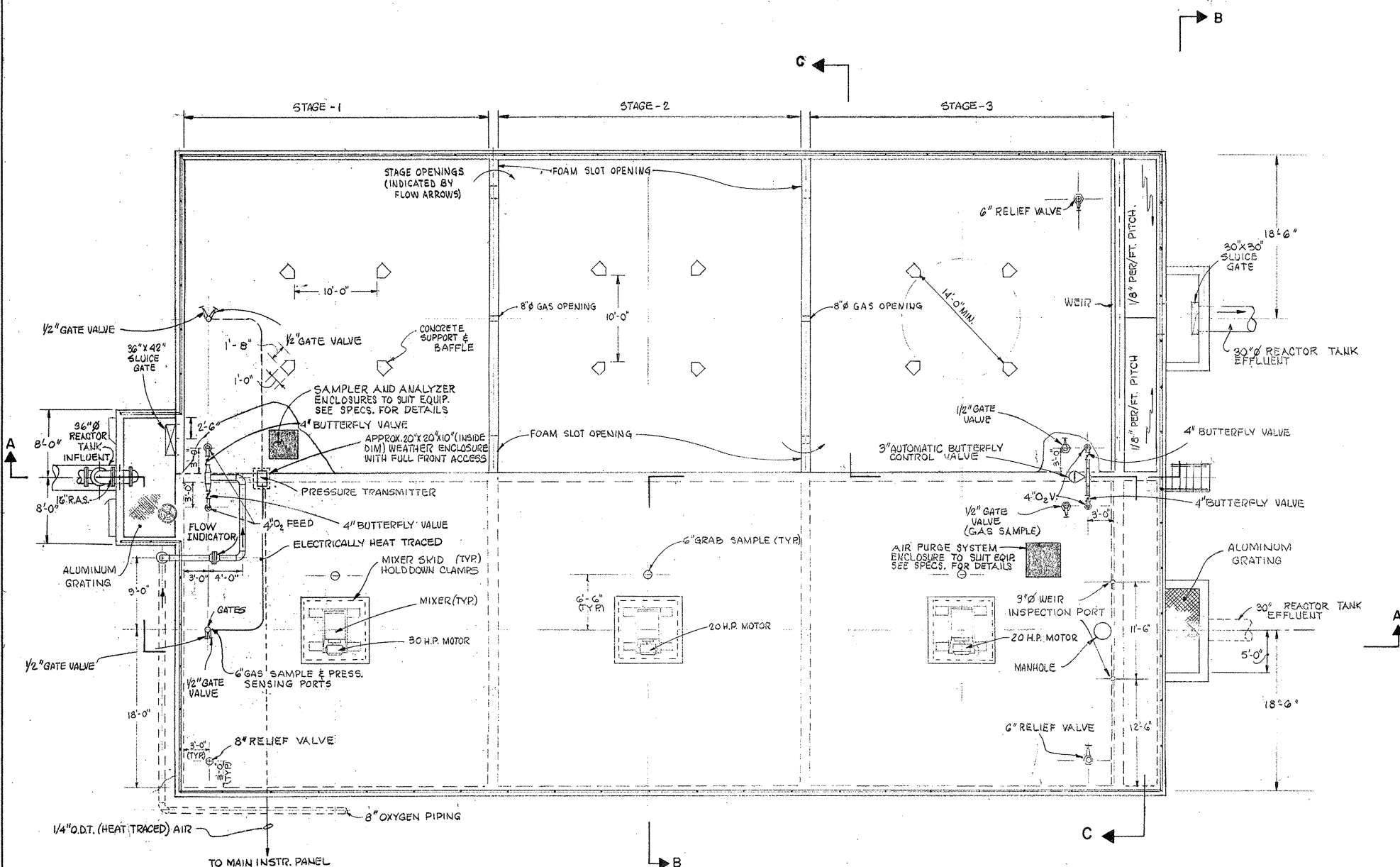
DRAWN: A. MCGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

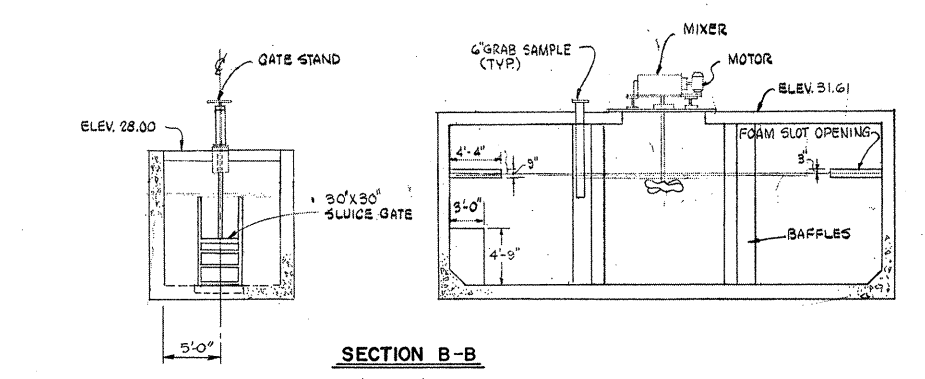
APPROVED

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING BASEMENT
EQUIPMENT AND PIPING PLANS AND SECTIONS

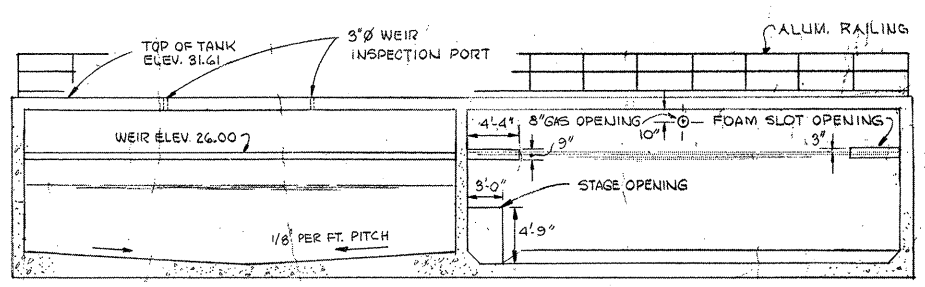
SCALE:
1/4"=1'-0"
 CEM NO. 1981
 DRAWING NO.
EP-10



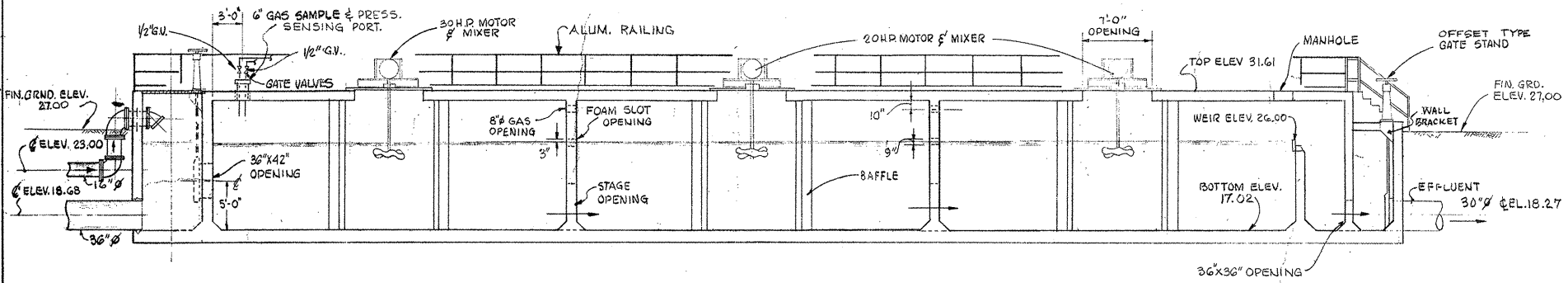
PLAN



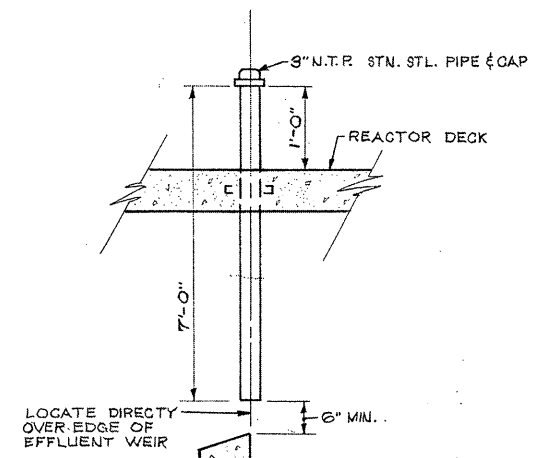
SECTION B-B



SECTION C-C



SECTION A-A



WEIR INSPECTION PORT DETAIL

NOT TO SCALE

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



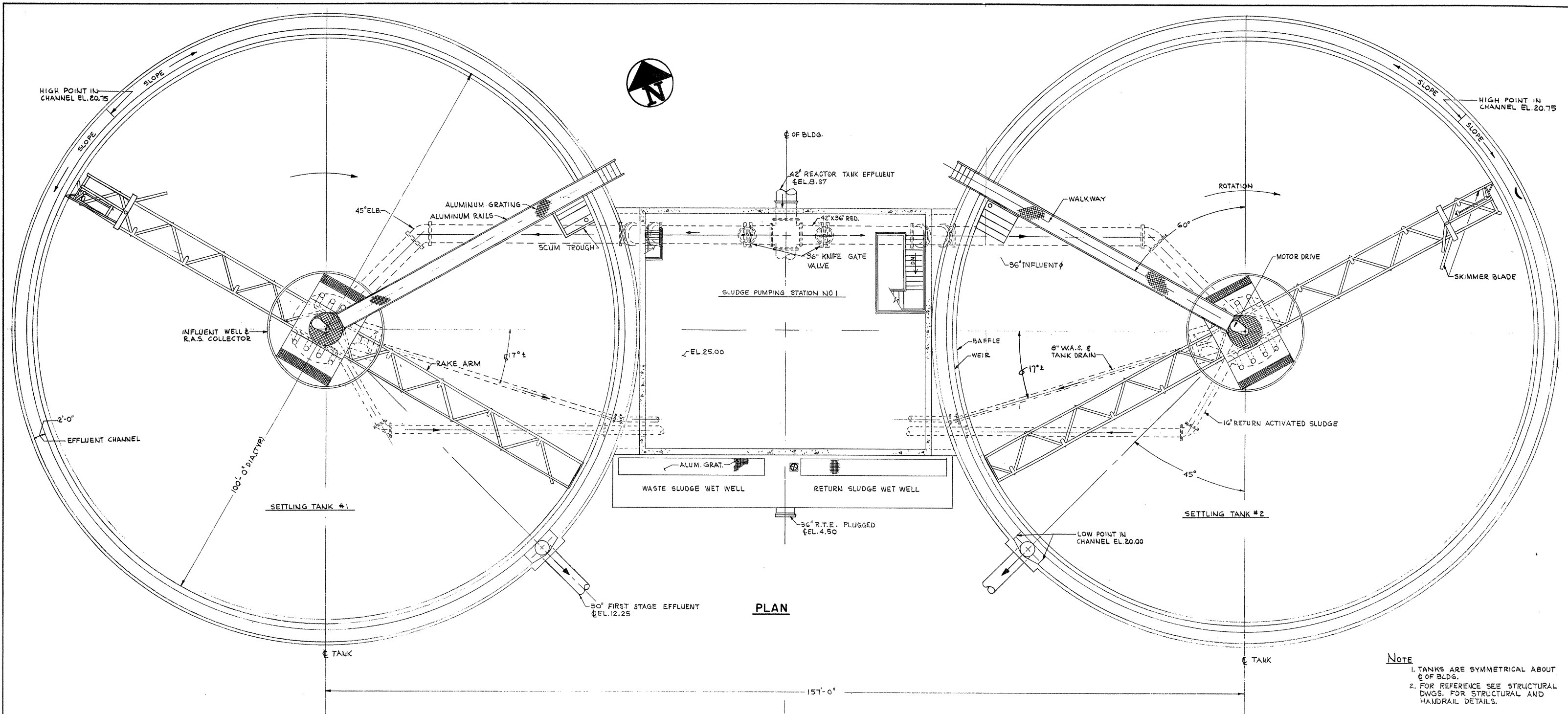
DRAWN: F. OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

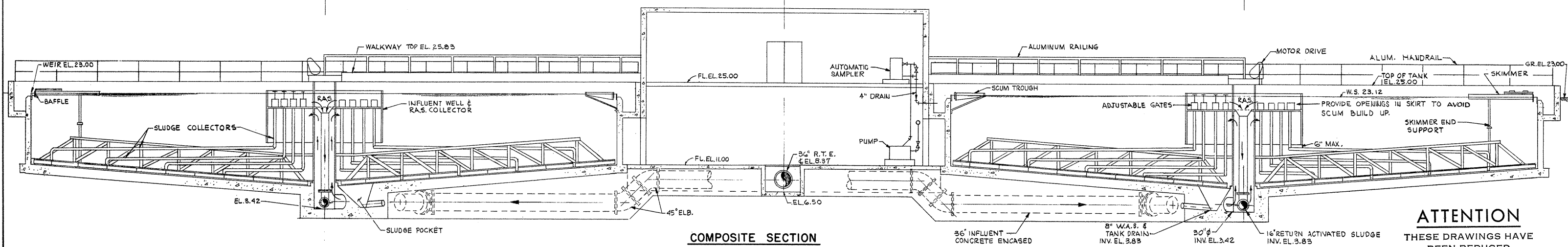
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 FIRST STAGE OXYGEN REACTOR
 EQUIPMENT AND PIPING
 PLAN AND SECTIONS

SCALE
 1/8" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
EP-11



PLAN

NOTE
 1. TANKS ARE SYMMETRICAL ABOUT
 C OF BLDG.
 2. FOR REFERENCE SEE STRUCTURAL
 DWGS. FOR STRUCTURAL AND
 HANDRAIL DETAILS.



COMPOSITE SECTION

ATTENTION
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 BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



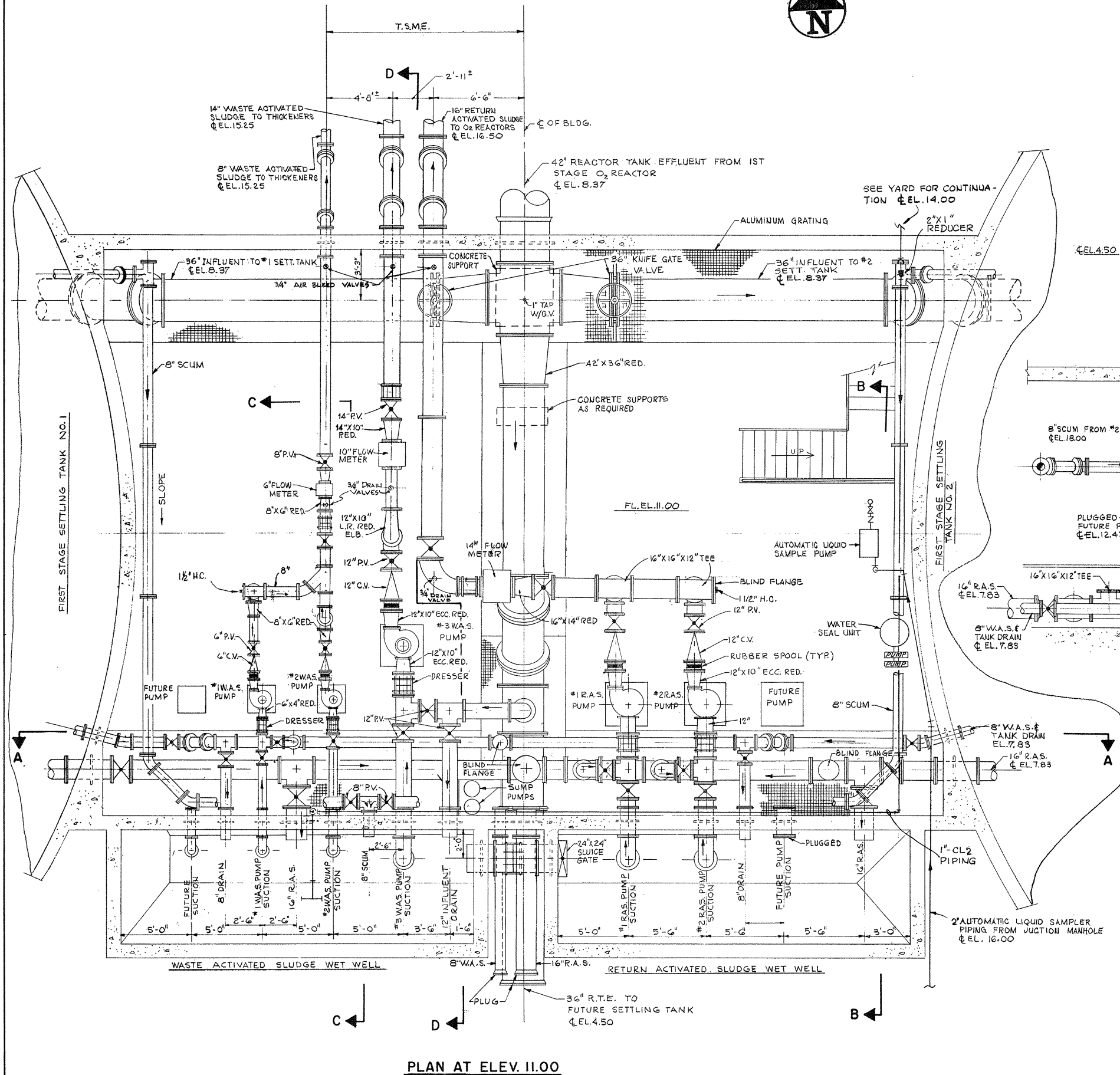
DRAWN: A. MCGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

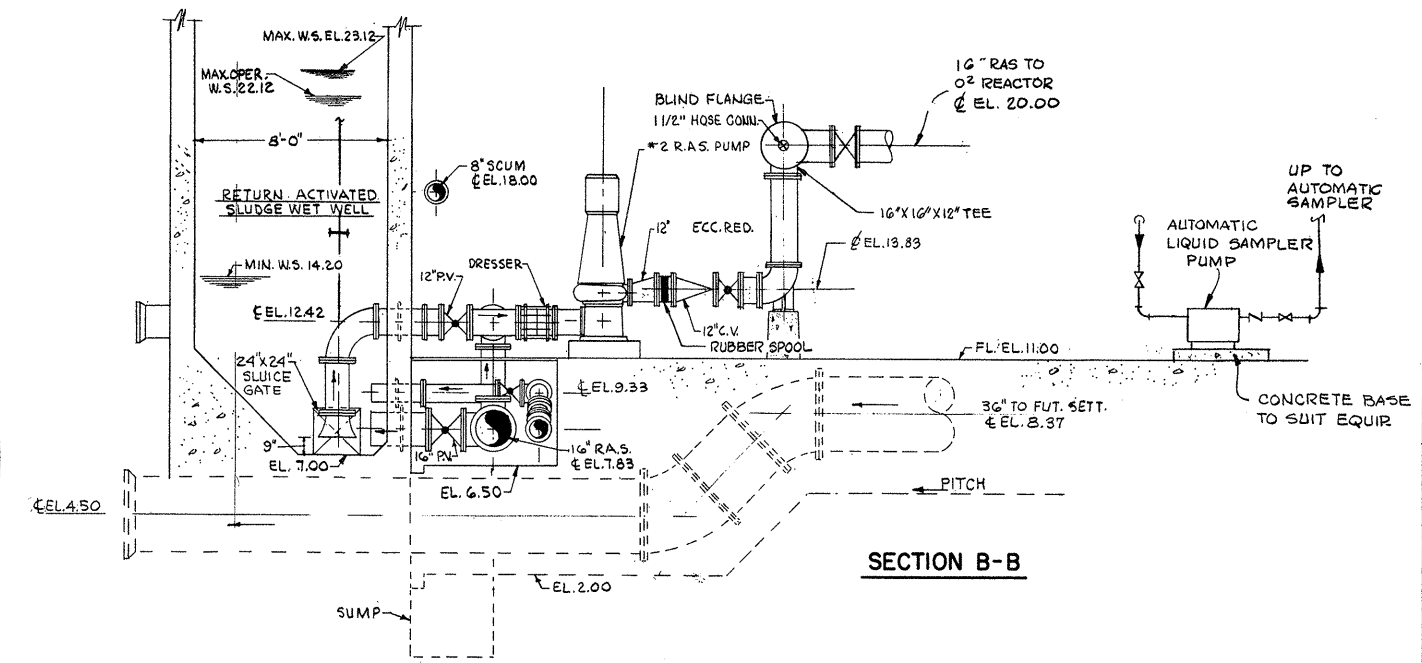
APPROVED
Charles G. Long
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
FIRST STAGE SETTLING TANKS
EQUIPMENT & PIPING
PLAN & SECTION

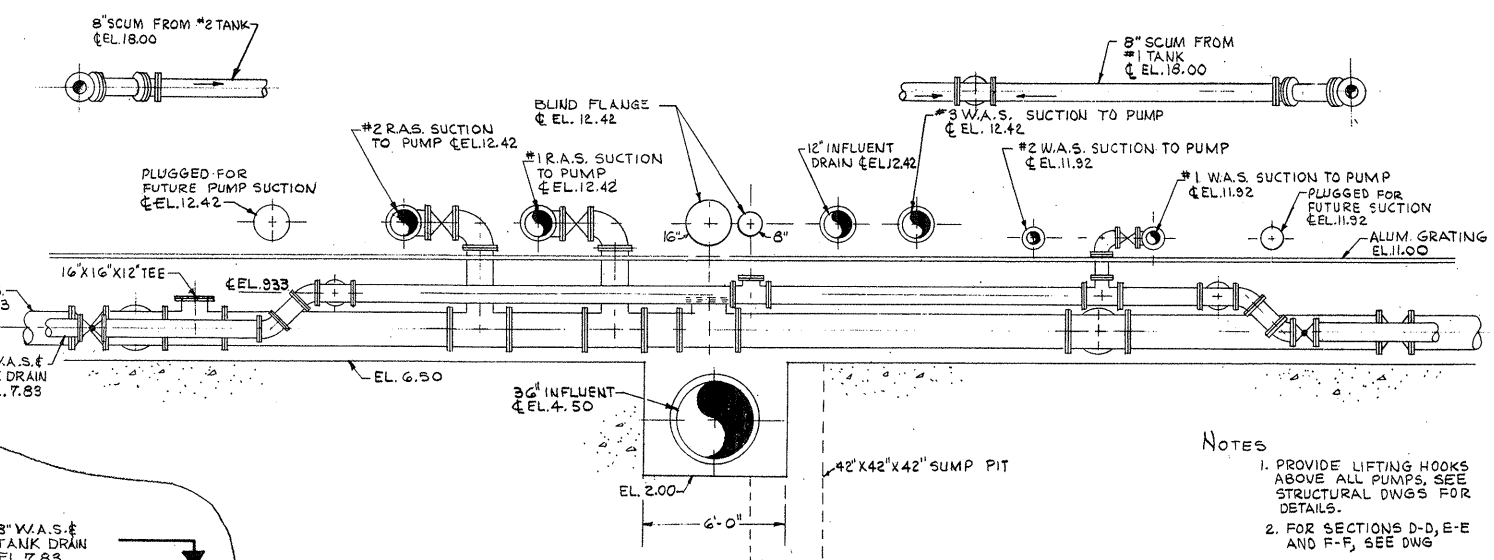
SCALE
 1/8"=1'-0"
 CEM NO. 1981
 DRAWING NO.
EP-12



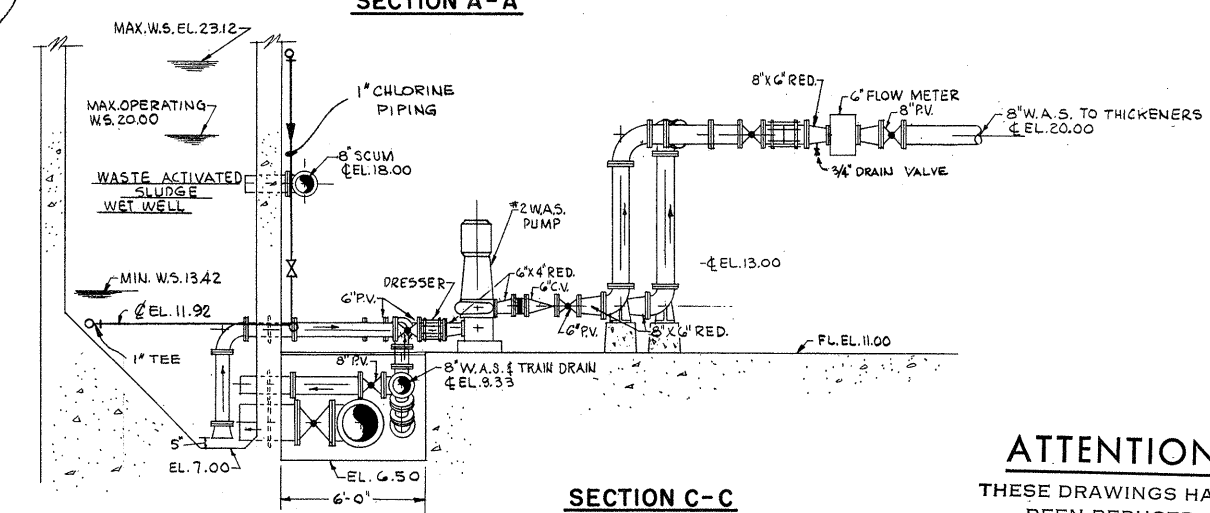
PLAN AT ELEV. 11.00



SECTION B-B



SECTION A-A



SECTION C-C

- NOTES
1. PROVIDE LIFTING HOOKS ABOVE ALL PUMPS. SEE STRUCTURAL DWGS FOR DETAILS.
 2. FOR SECTIONS D-D, E-E AND F-F, SEE DWG

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: A. MCGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED

Charles G. King
 CITY OF TAUNTON

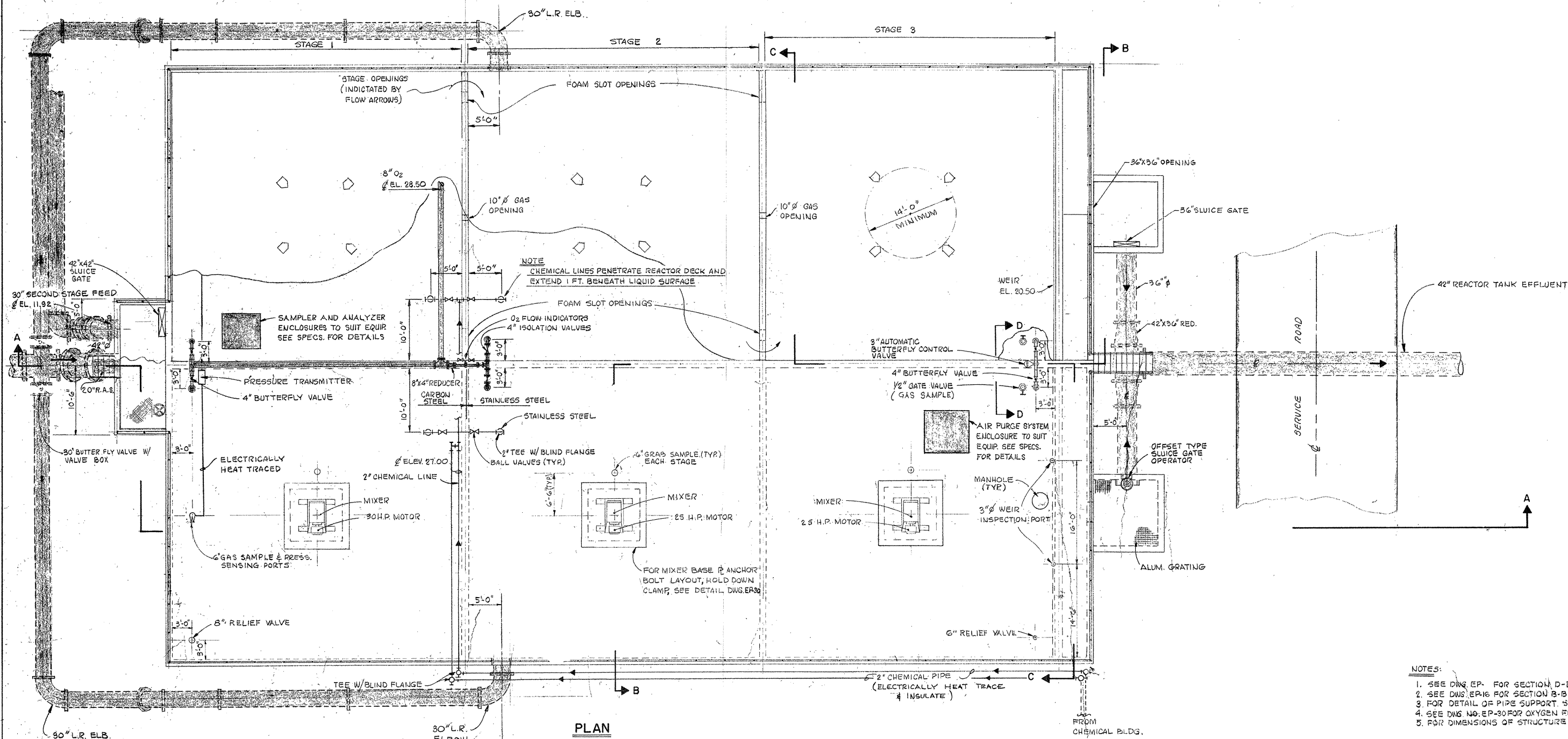
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

SLUDGE PUMPING STATION NO. 1
 EQUIPMENT & PIPING
 PLAN AT ELEV. 11.00 & SECTIONS

SCALE
 1/4" = 1'-0"

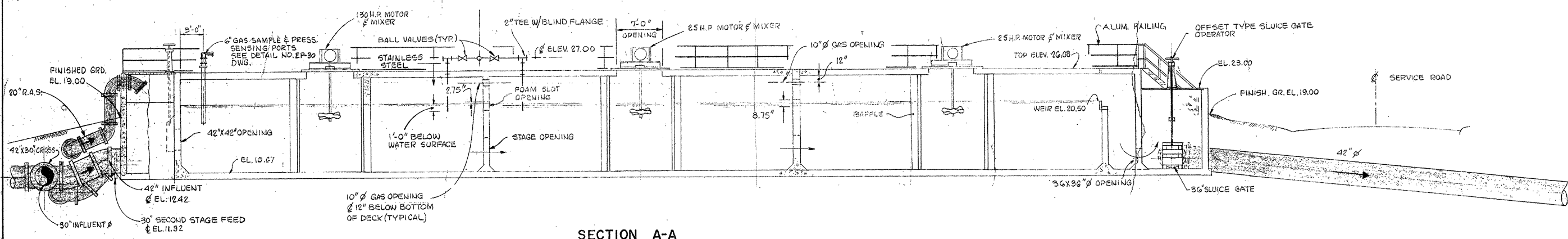
CEM NO. 1981

DRAWING NO.
EP-13



PLAN

- NOTES:
1. SEE DWG. EP- FOR SECTION D-D.
 2. SEE DWG. EP-16 FOR SECTION B-B AND C-C.
 3. FOR DETAIL OF PIPE SUPPORT, SEE DWG. NO. EP-16.
 4. SEE DWG. NO. EP-30 FOR OXYGEN FLOW SCHEMATIC.
 5. FOR DIMENSIONS OF STRUCTURE SEE STRUCTURAL DWGS.



SECTION A-A

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: F. OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. King
 CITY OF TAUNTON

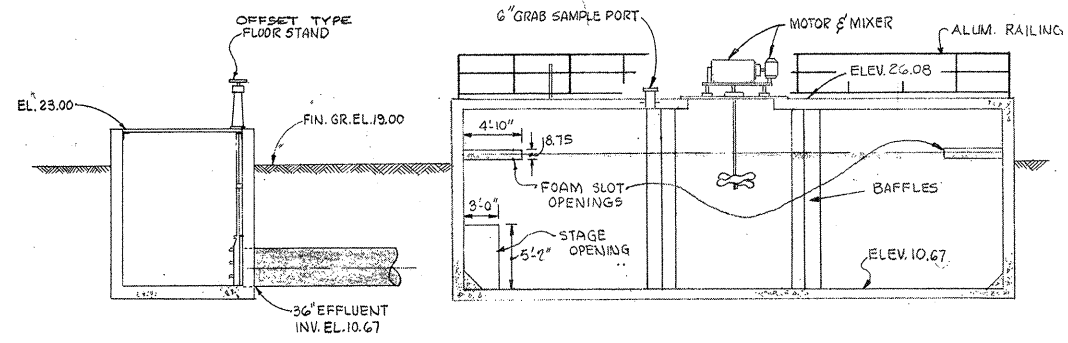
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

SECOND STAGE OXYGEN REACTOR
EQUIPMENT AND PIPING
PLAN AND SECTION

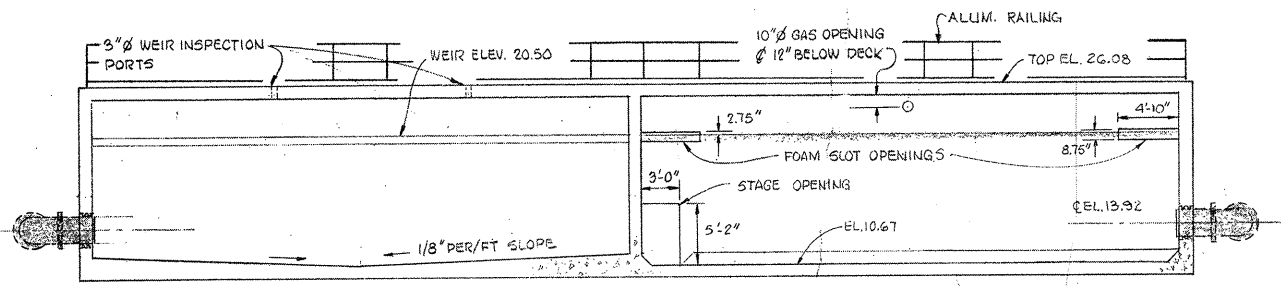
SCALE
 1/8" = 1'-0"

CEM NO. 1981

DRAWING NO.
EP-15



SECTION B-B



SECTION C-C

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: F. OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. King
 CITY OF TAUNTON

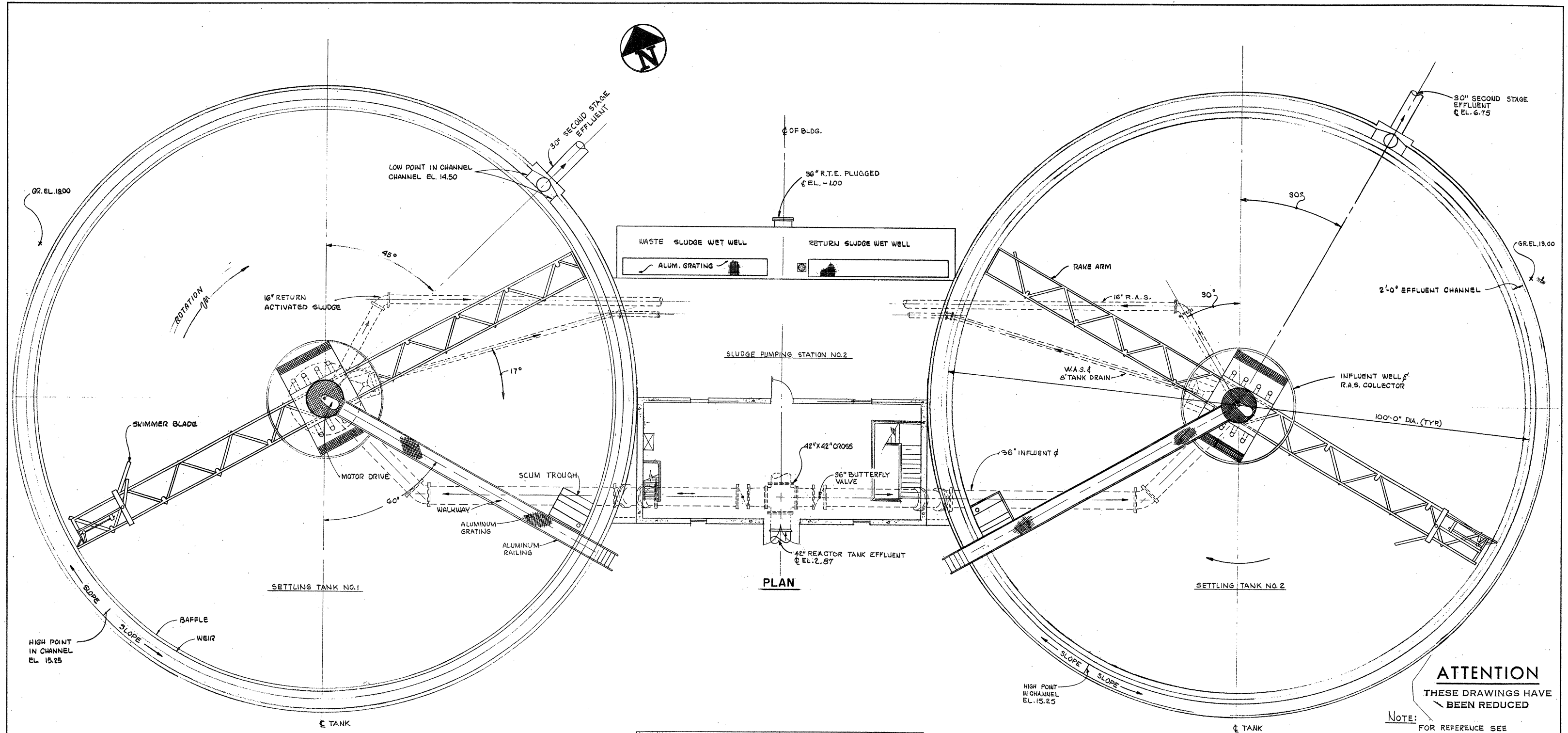
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

SECOND STAGE OXYGEN REACTOR
EQUIPMENT AND PIPING SECTIONS

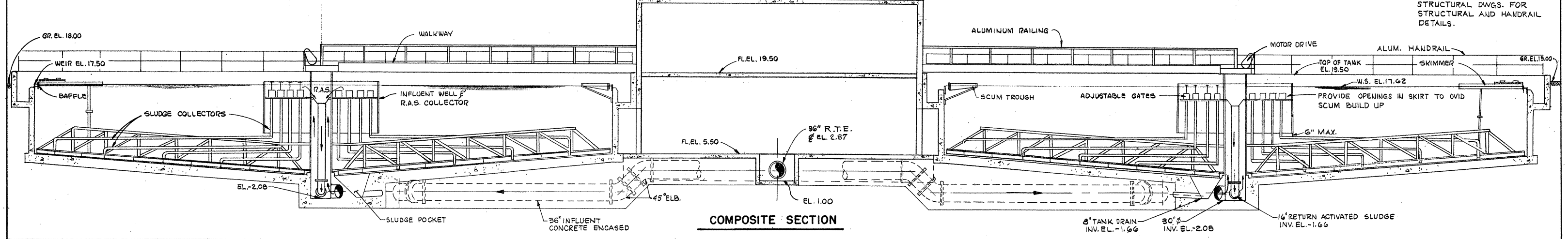
SCALE:
1/8" = 1'-0"

CEM NO. 1981

DRAWING NO.
EP-16



PLAN



COMPOSITE SECTION

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

NOTE:
FOR REFERENCE SEE STRUCTURAL DWGS. FOR STRUCTURAL AND HANDRAIL DETAILS.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: F OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

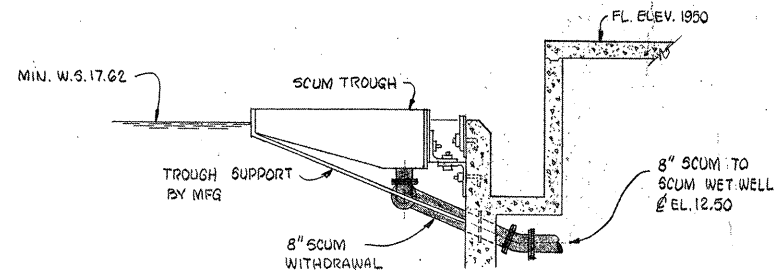
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

SECOND STAGE SETTLING TANKS
 EQUIPMENT AND PIPING
 PLAN AND SECTION

SCALE
 1/8" = 1'-0"

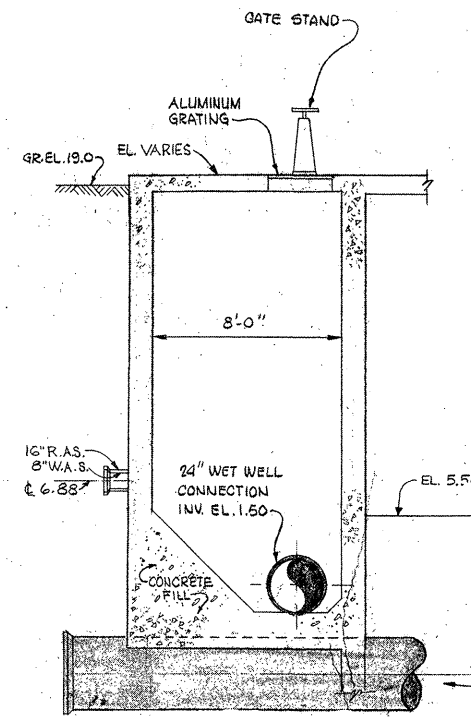
CEM NO. 1981

DRAWING NO.
EP-17

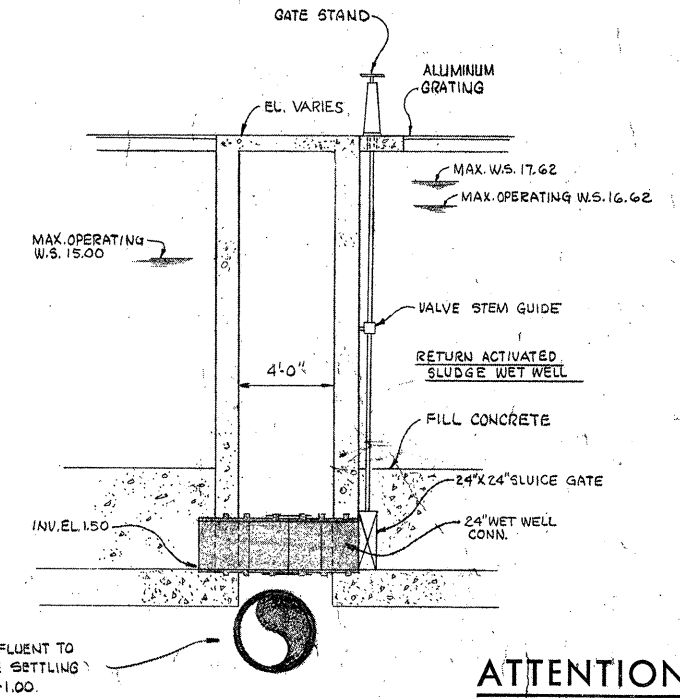


**SECONDARY SETTLING TANKS
SCUM HOPPER DETAIL**

NO SCALE

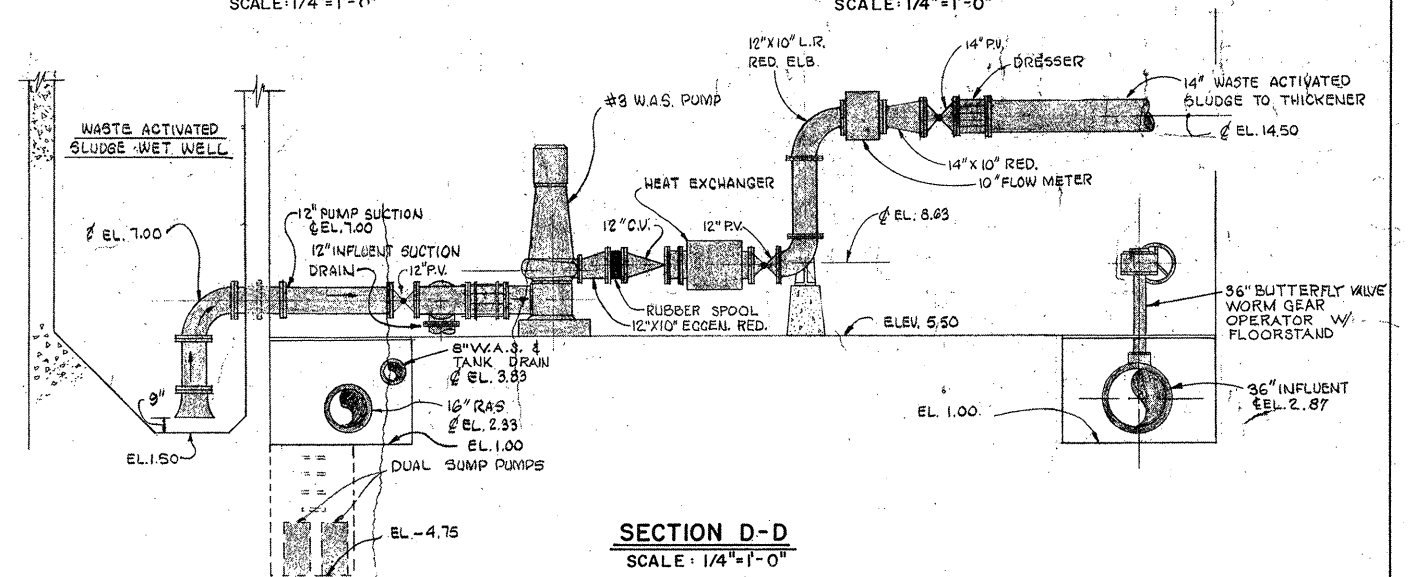


SECTION E-E
SCALE: 1/4"=1'-0"

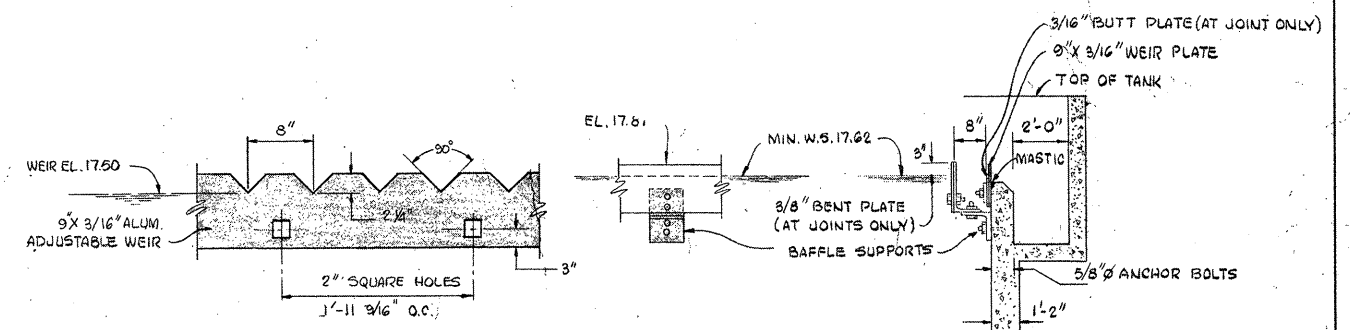


SECTION F-F
SCALE: 1/4"=1'-0"

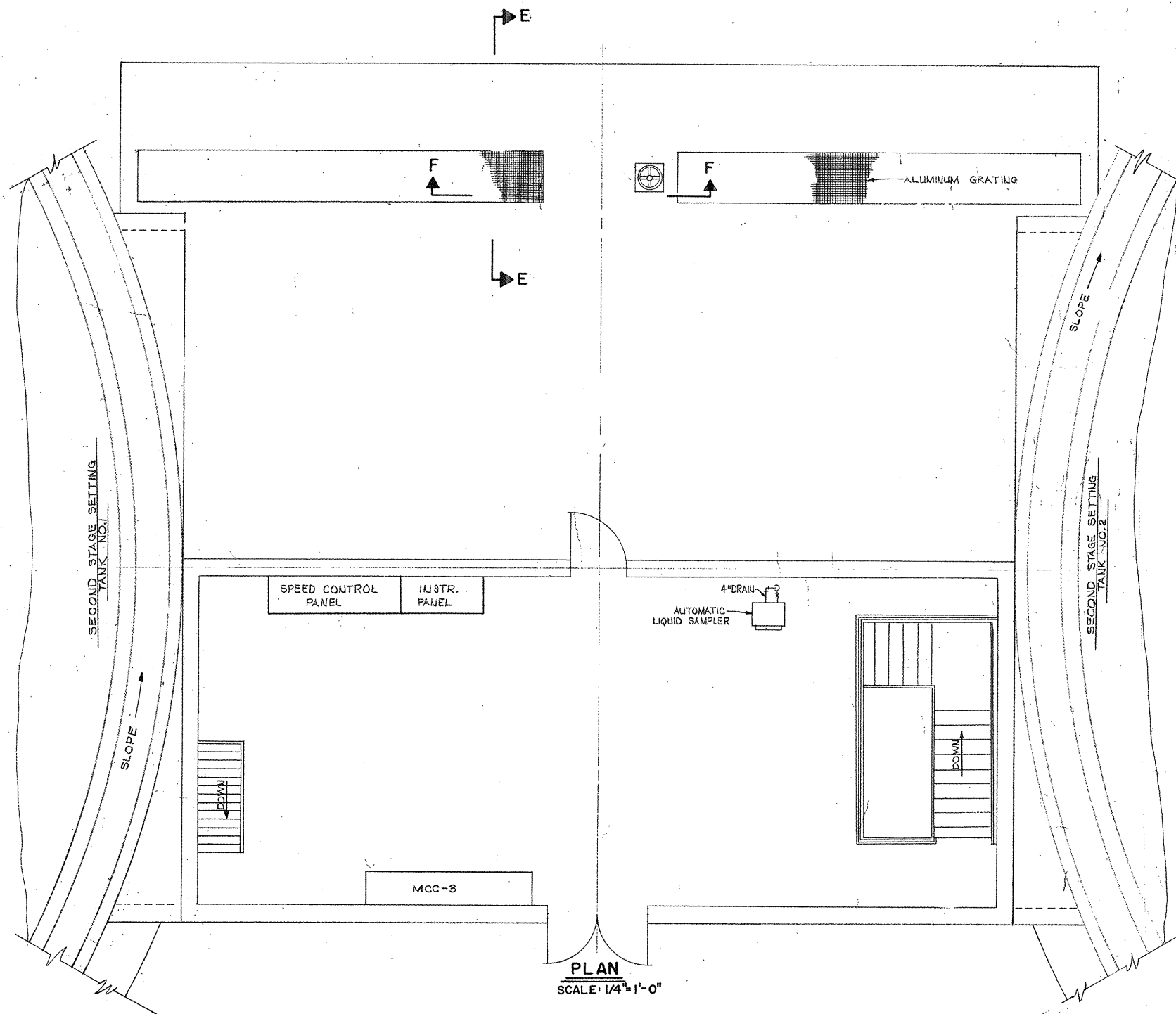
ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED



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



TANK WEIR DETAIL
NO SCALE



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

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: F. OAKES DESIGNED: T. GILLIGAN
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

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Charles G. Perry
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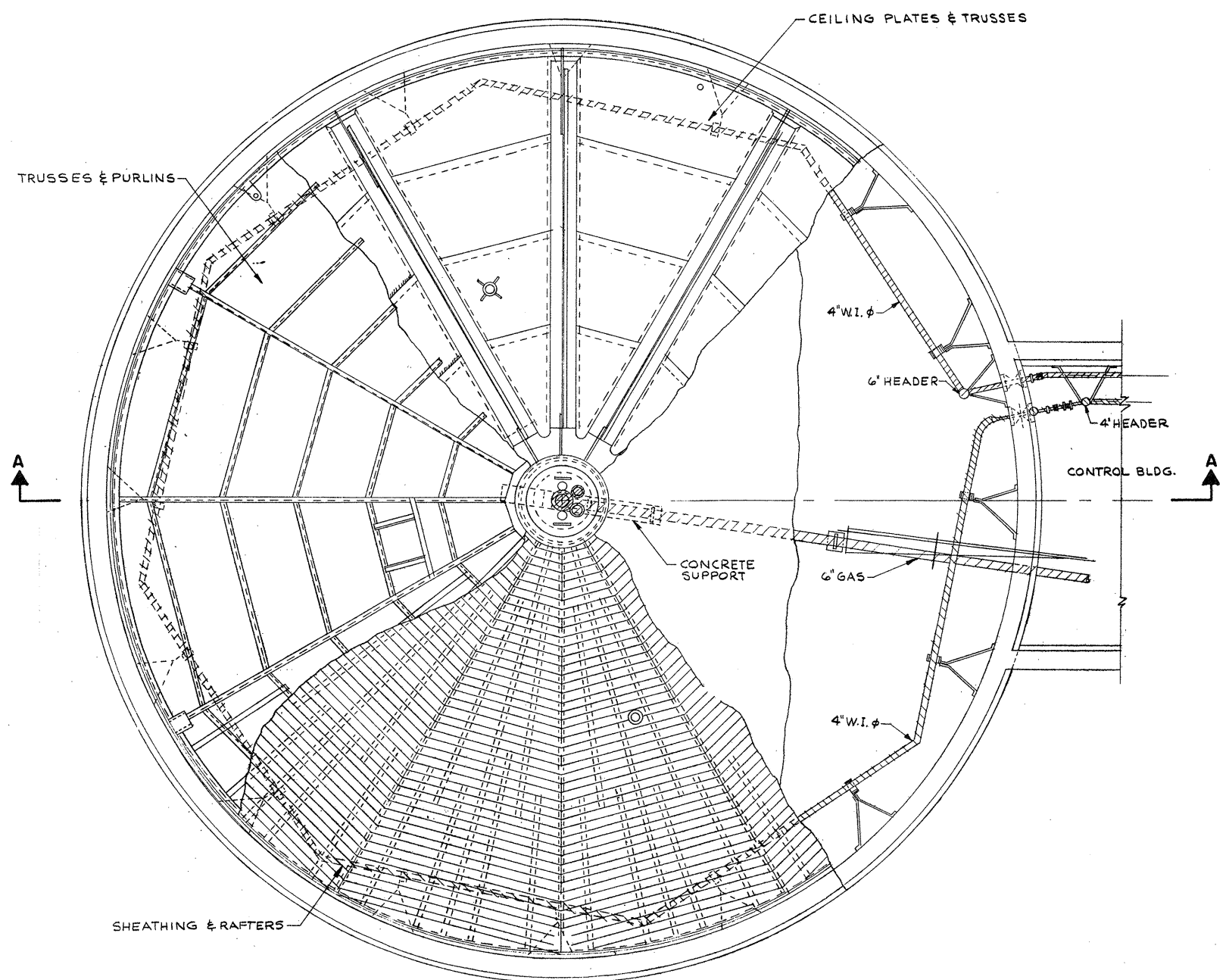
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

SLUDGE PUMPING STATION NO. 2
 EQUIPMENT AND PIPING
 PLAN AT ELEV. 19.50, SECTIONS & DETAILS

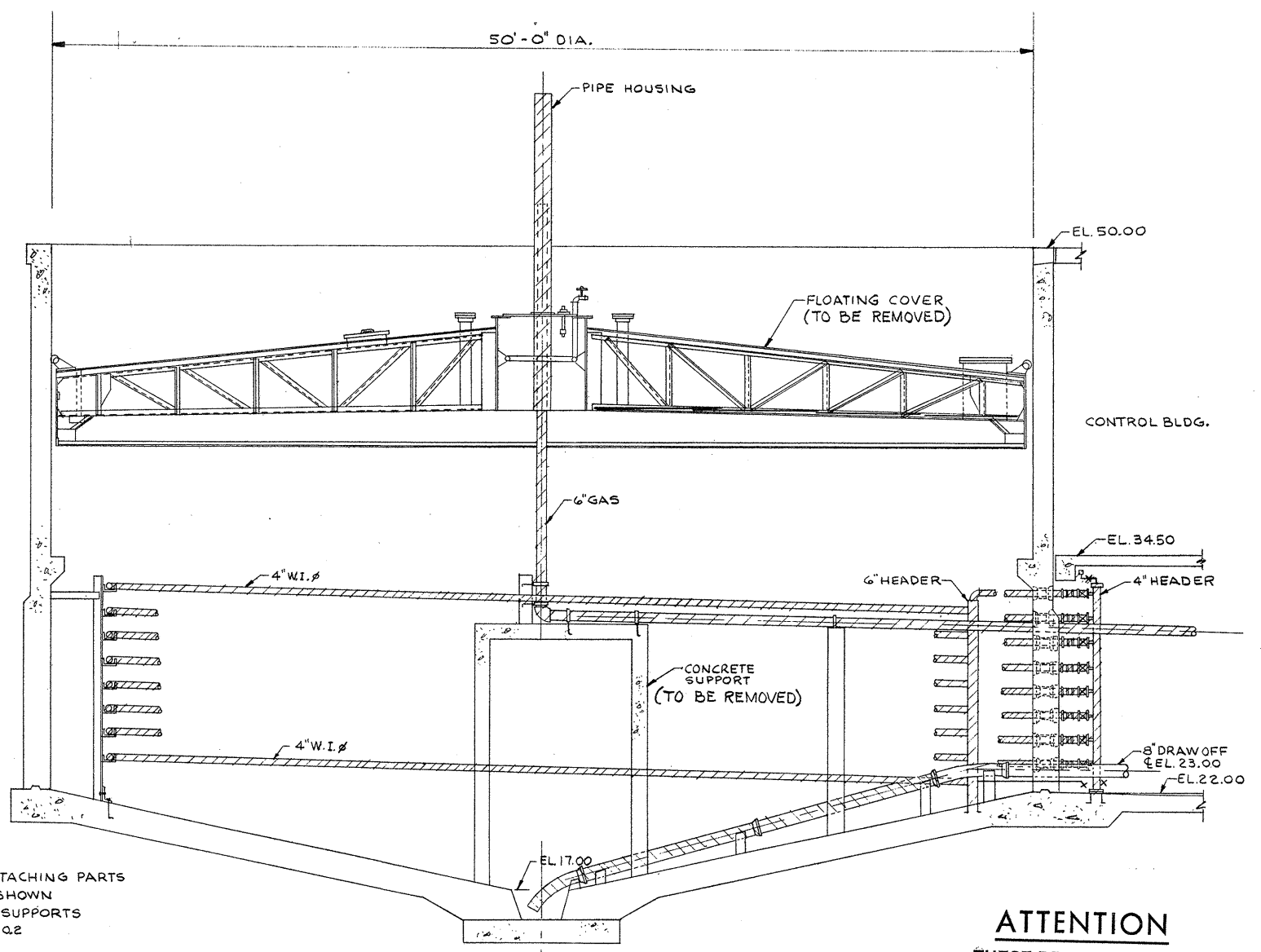
SCALE:
 AS NOTED

CEM NO. 1981

DRAWING NO.
EP-19



**EXISTING DIGESTION
TANK NO. 2
PLAN**



SECTION A-A

LEGEND
 EXISTING PIPING TO BE REMOVED
 EXISTING PIPING TO REMAIN

NOTES:
 1. REMOVE FLOATING COVER & ATTACHING PARTS
 2. REMOVE EXISTING PIPING AS SHOWN
 3. REMOVE EXISTING CONCRETE SUPPORTS
 4. TANK NO. 1 OPPOSITE HAND TANK NO. 2

ATTENTION
 THESE DRAWINGS HAVE
 BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: A. MCGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED

 CITY OF TAUNTON

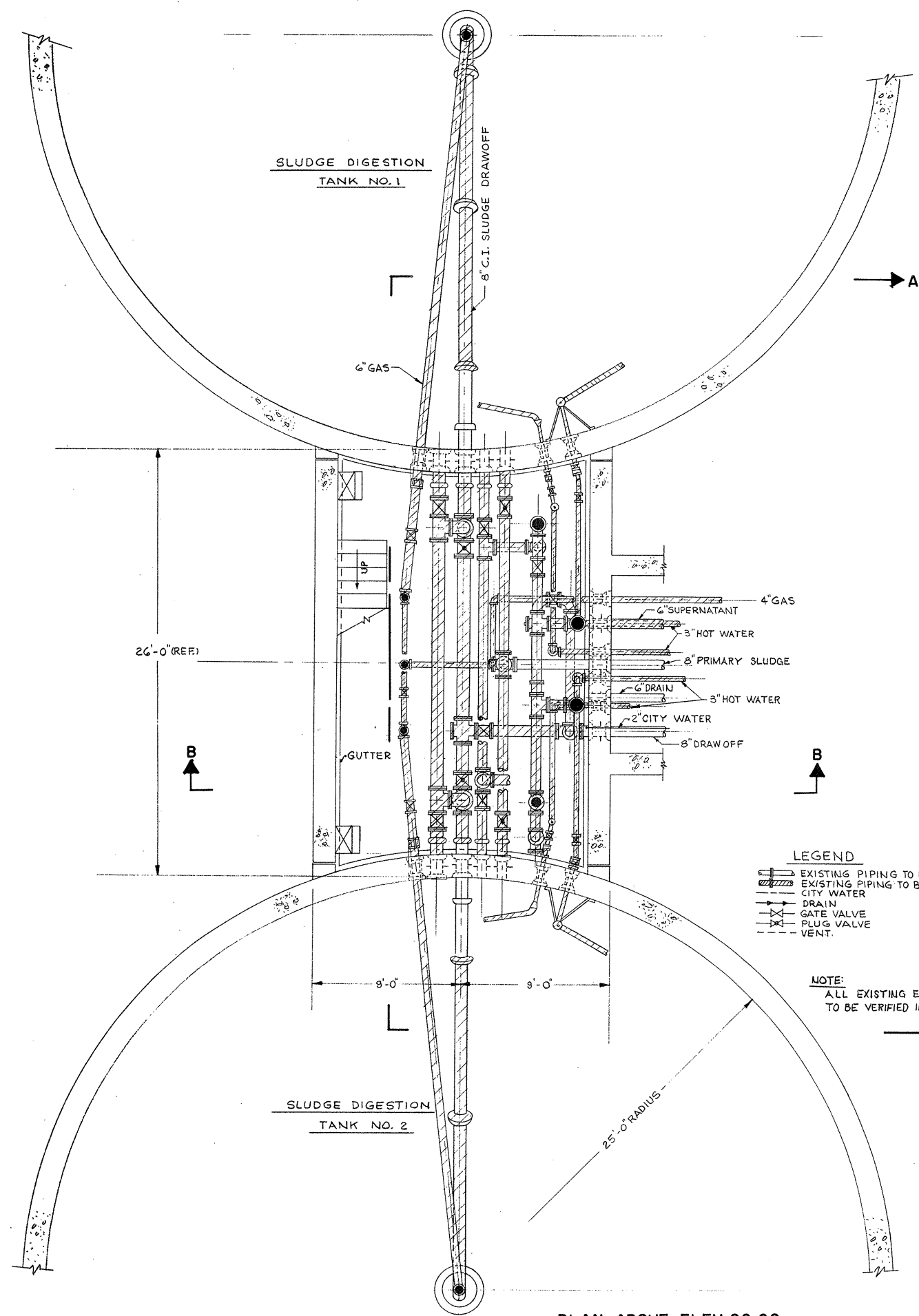
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

EXISTING DIGESTION TANK
 EQUIPMENT AND PIPING
 PLAN AND SECTION

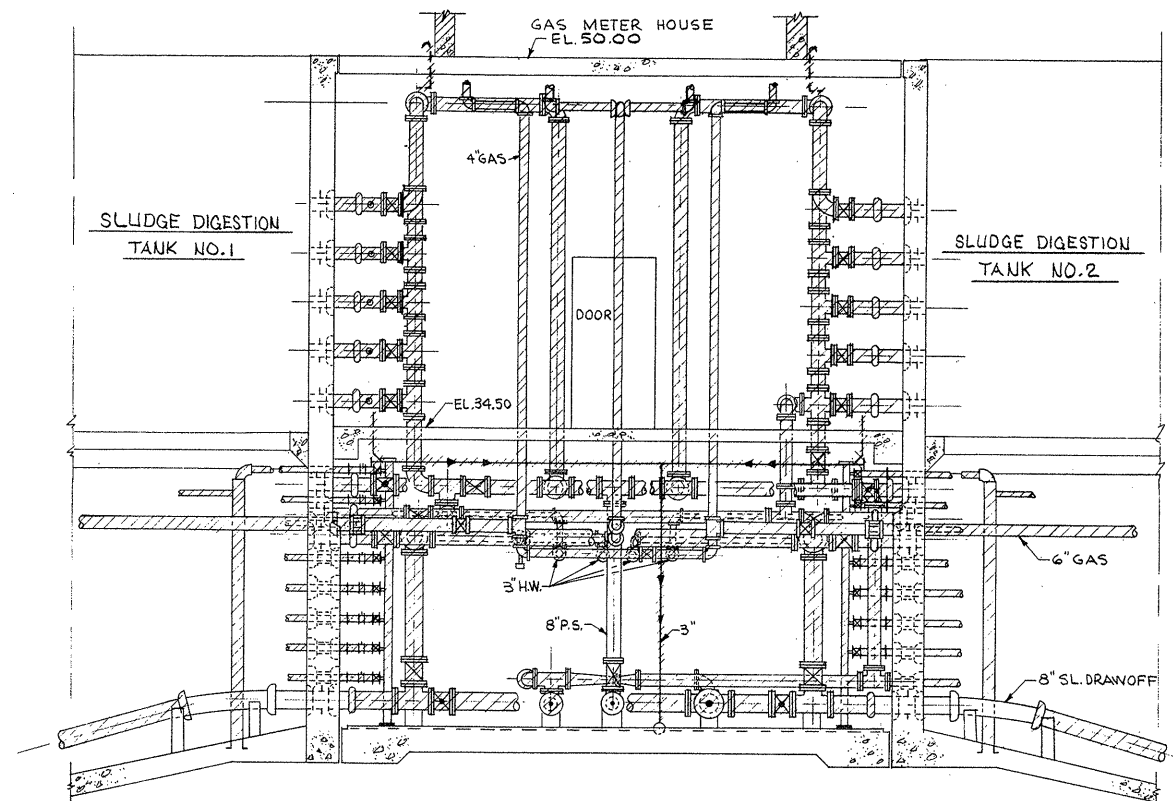
SCALE
 1/4" = 1'-0"

CEM NO. 1981

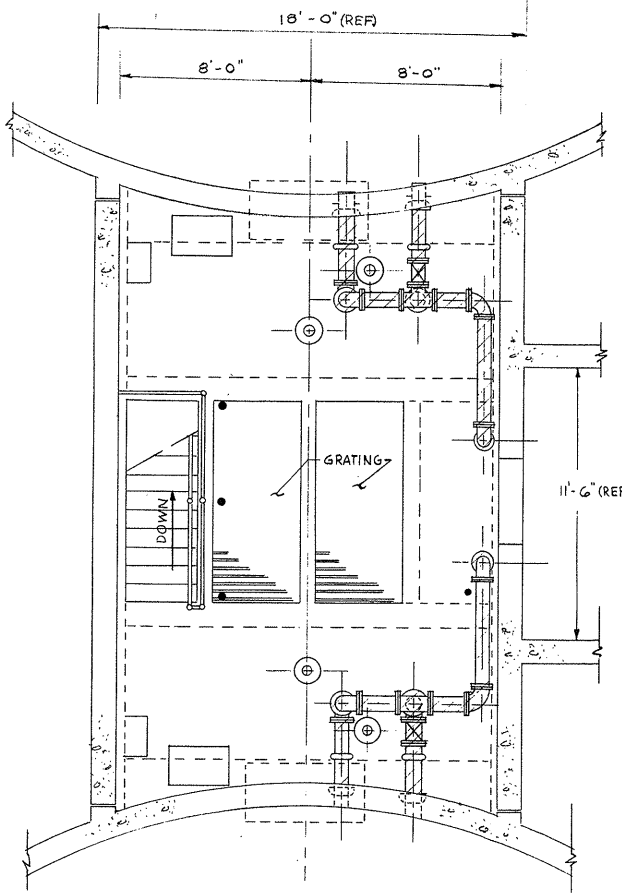
DRAWING NO.
EP-20



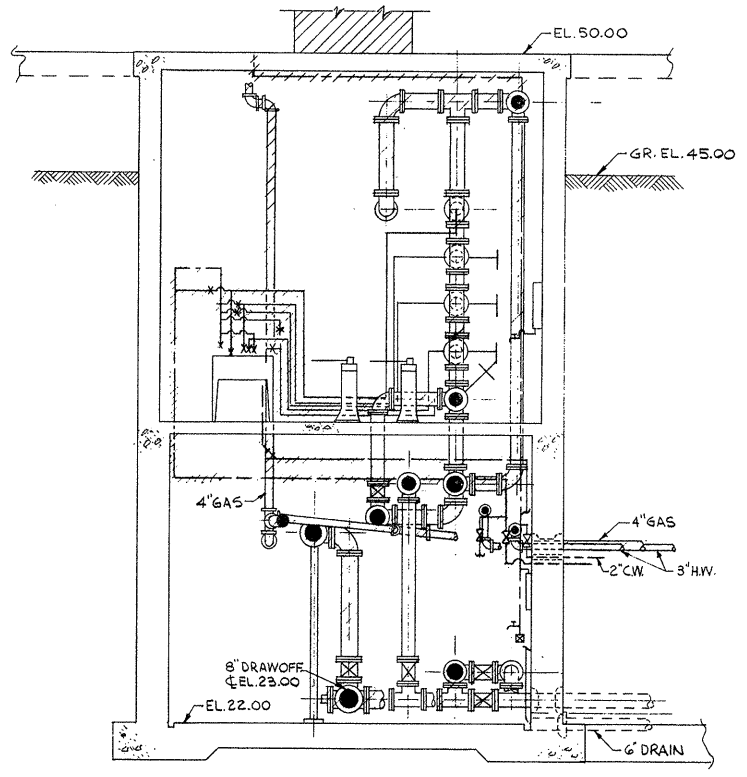
PLAN ABOVE ELEV. 22.00



SECTION A-A



PLAN ABOVE ELEV. 34.50



SECTION B-B

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

- LEGEND**
- EXISTING PIPING TO REMAIN
 - EXISTING PIPING TO BE REMOVED
 - CITY WATER
 - DRAIN
 - GATE VALVE
 - PLUG VALVE
 - VENT.

NOTE:
ALL EXISTING ELEVATIONS
TO BE VERIFIED IN THE FIELD.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: A. McGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED

 CITY OF TAUNTON

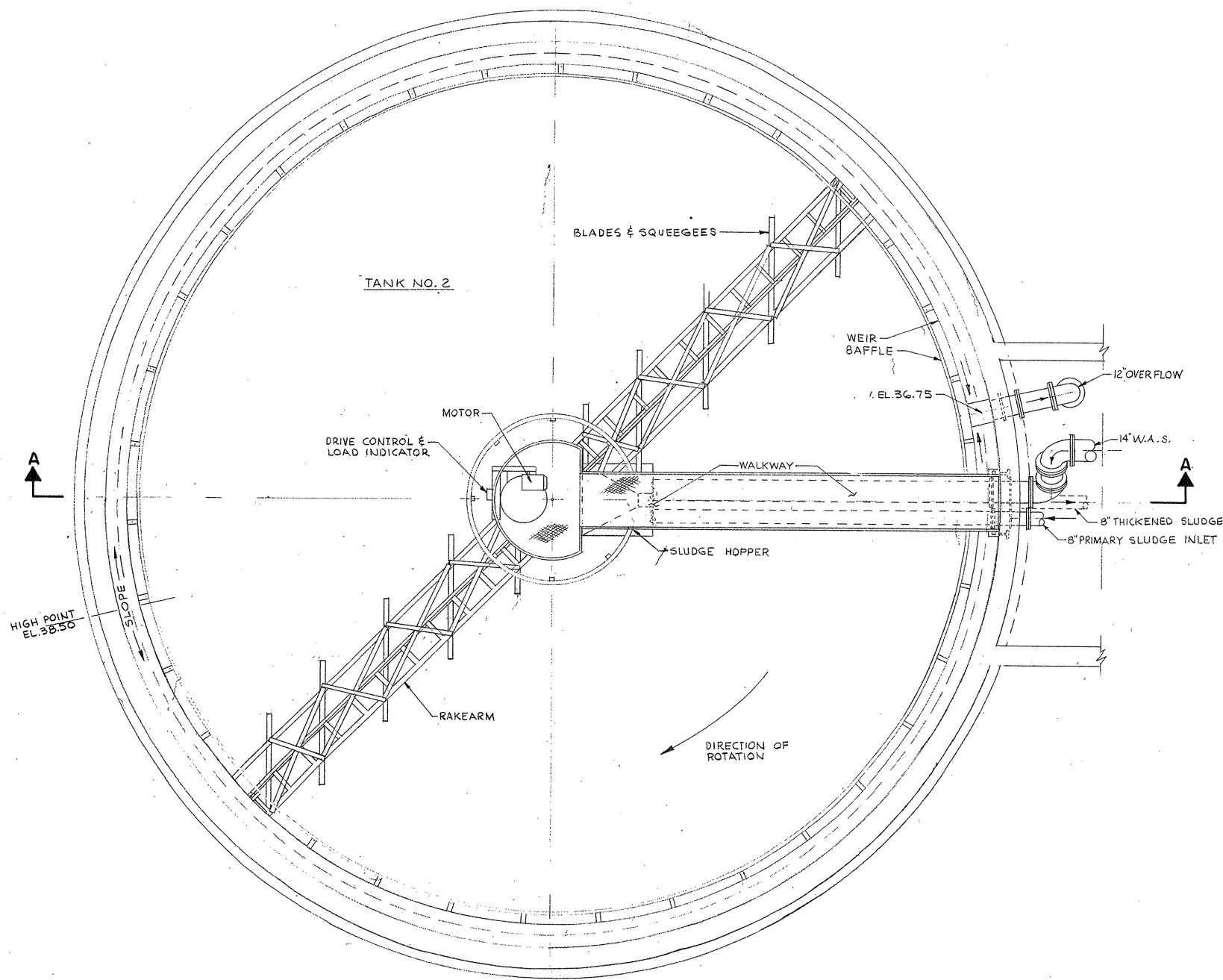
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

EXISTING DIGESTION BLDG.
**EQUIPMENT AND PIPING
 PLANS AND SECTIONS**

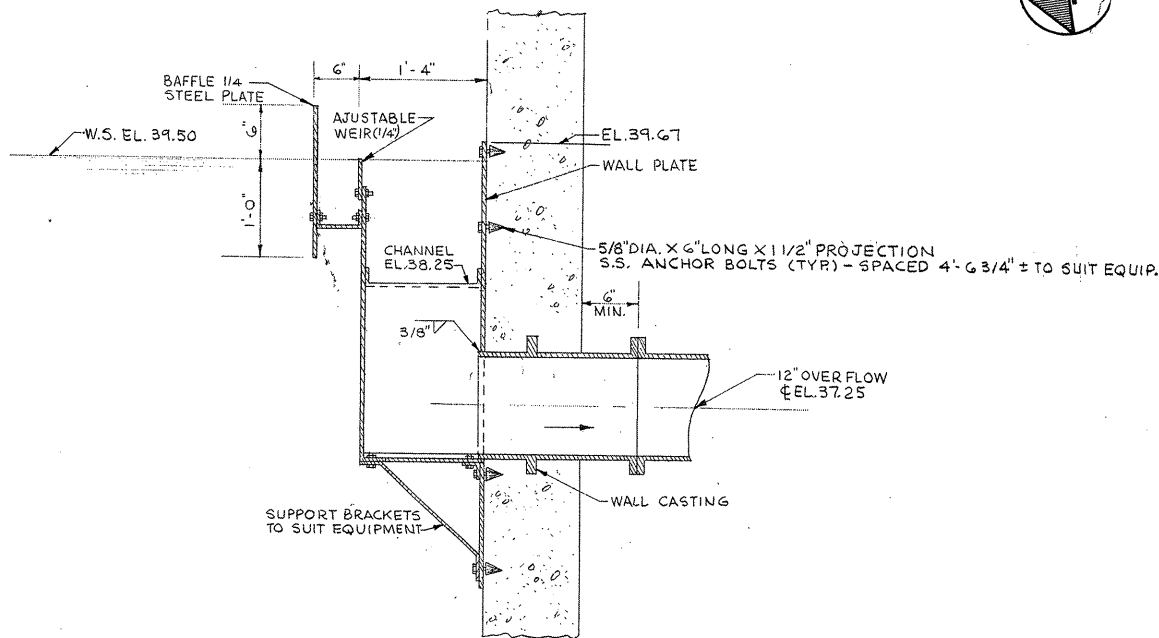
SCALE
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CEM NO. 1981

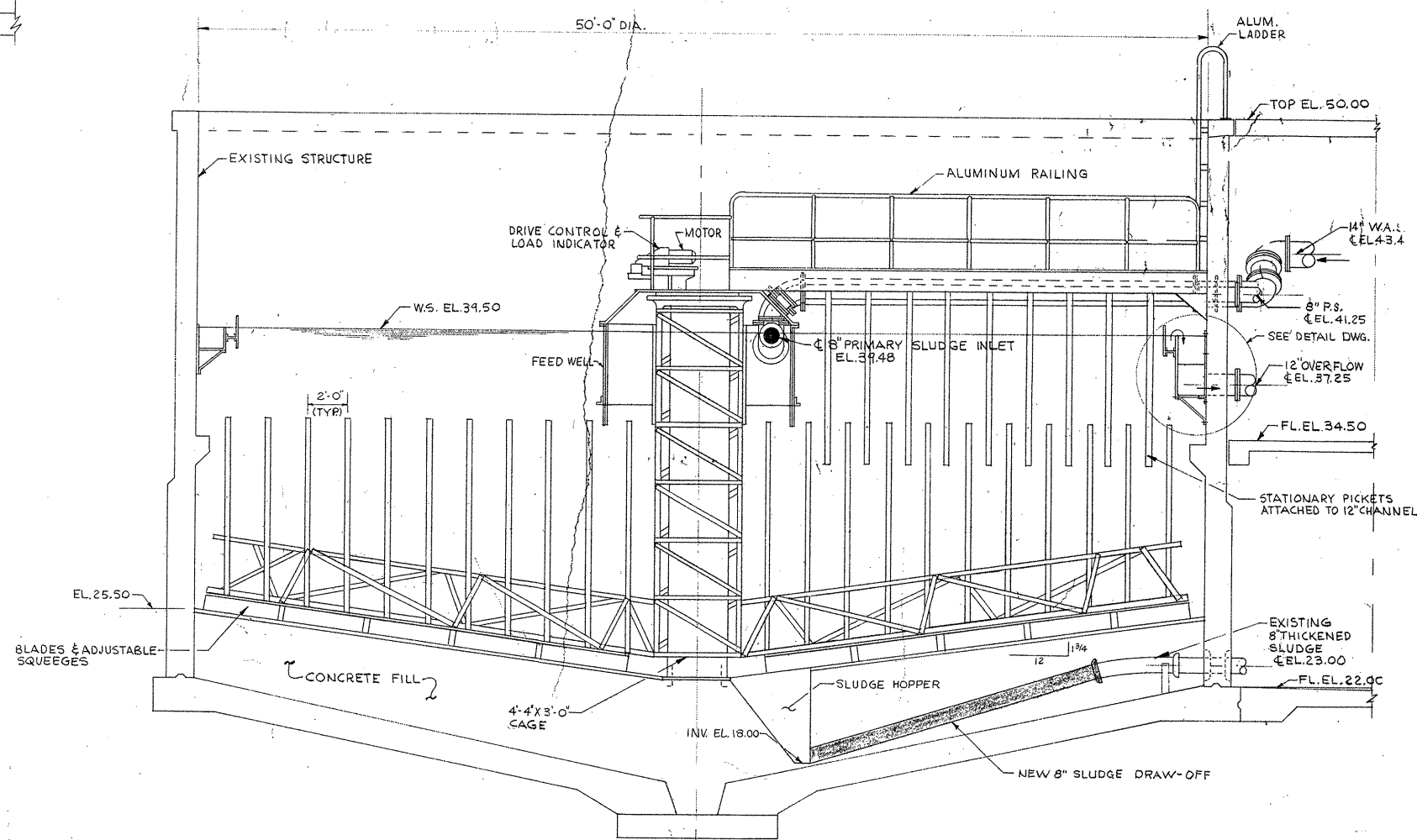
DRAWING NO.
EP-21



TANK NO. 2
PLAN
SCALE: 1/4"=1'-0"



SECTION
BAFFLE & WEIR DETAIL
SCALE: 1"=1'-0"



SECTION A-A

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

LEGEND
 EXISTING PIPING TO REMAIN.
 NEW PIPING TO BE INSTALLED.

NOTES:
 1. PLUG ALL ABANDONED WALL CASTINGS
 2. TANK NO. 1 OPPOSITE HAND TANK NO. 2
 3. SEE STRUCTURAL DWGS FOR MODIFICATIONS TO EXISTING DIGESTER.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: A. MCGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

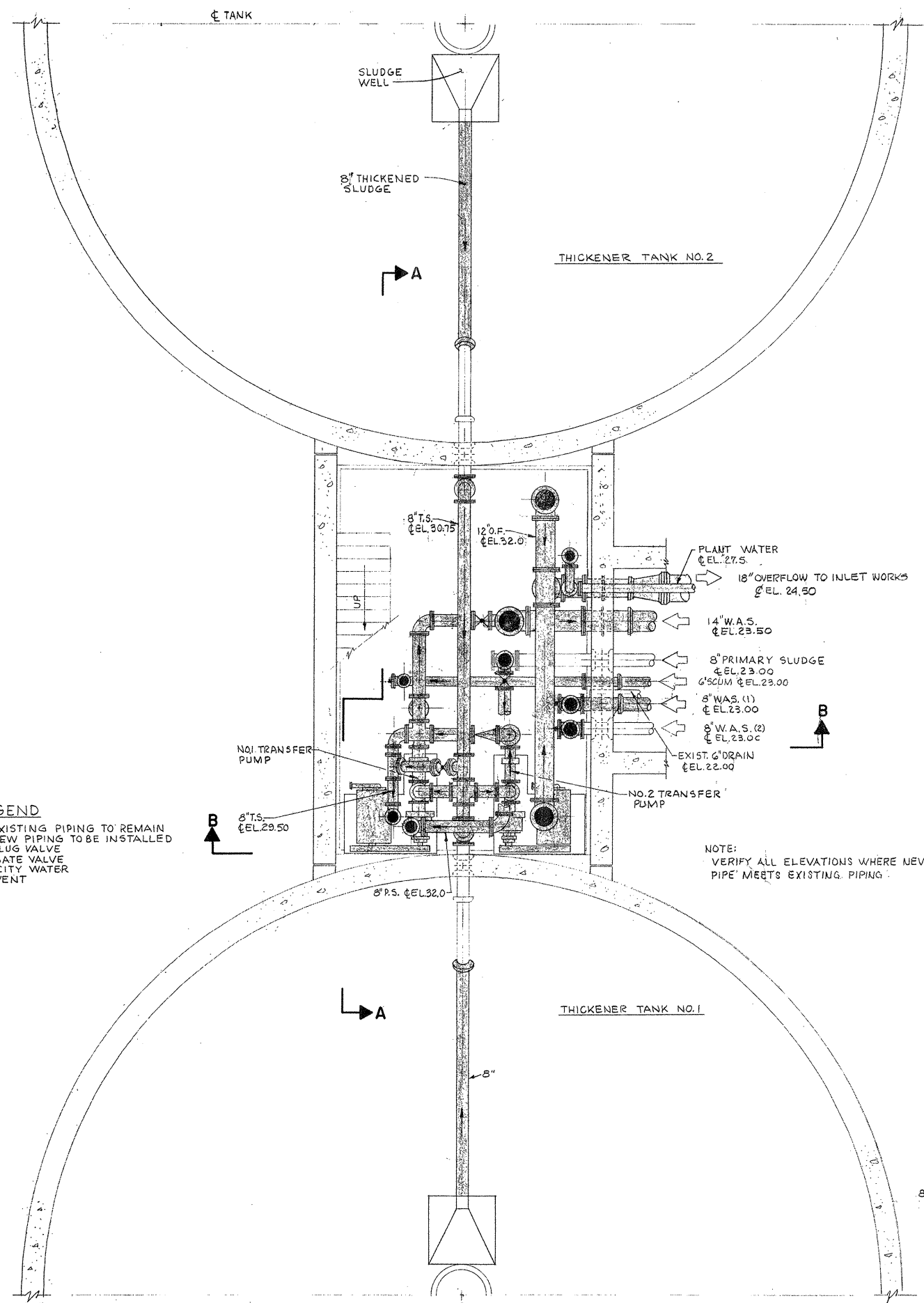
HOLDING AND THICKENING TANK
EQUIPMENT AND PIPING
PLAN AND SECTION

SCALE:
 AS NOTED

CEM NO. 1981

DRAWING NO.

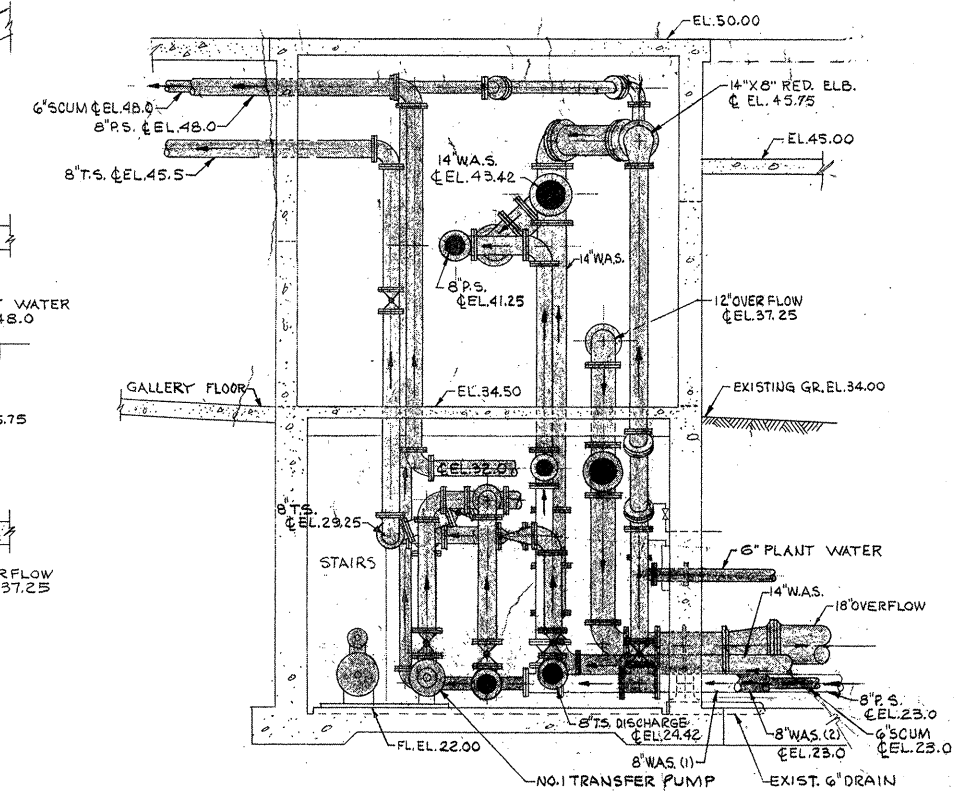
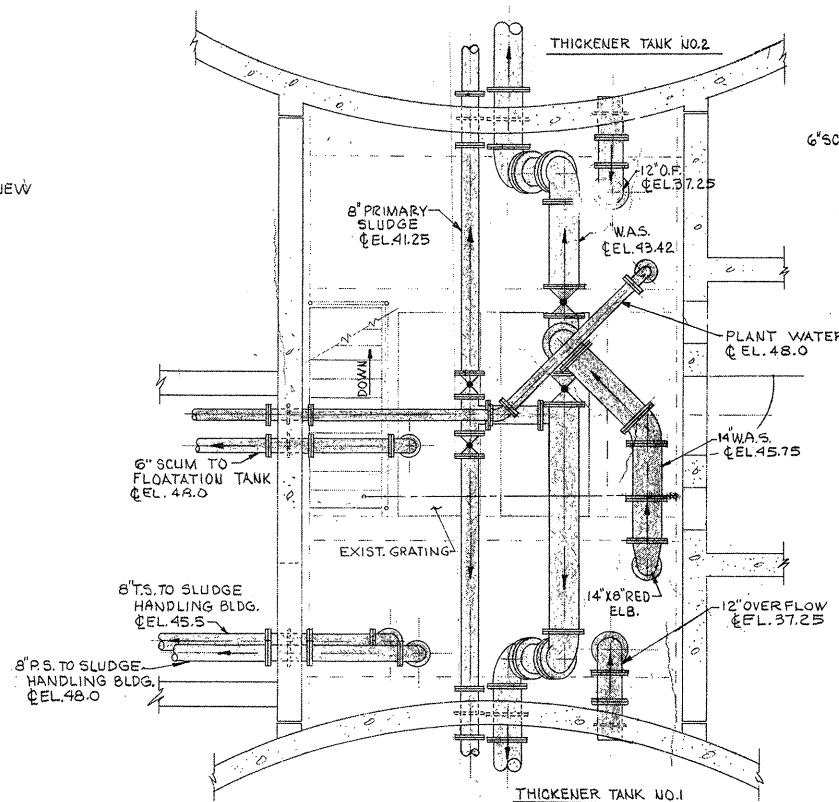
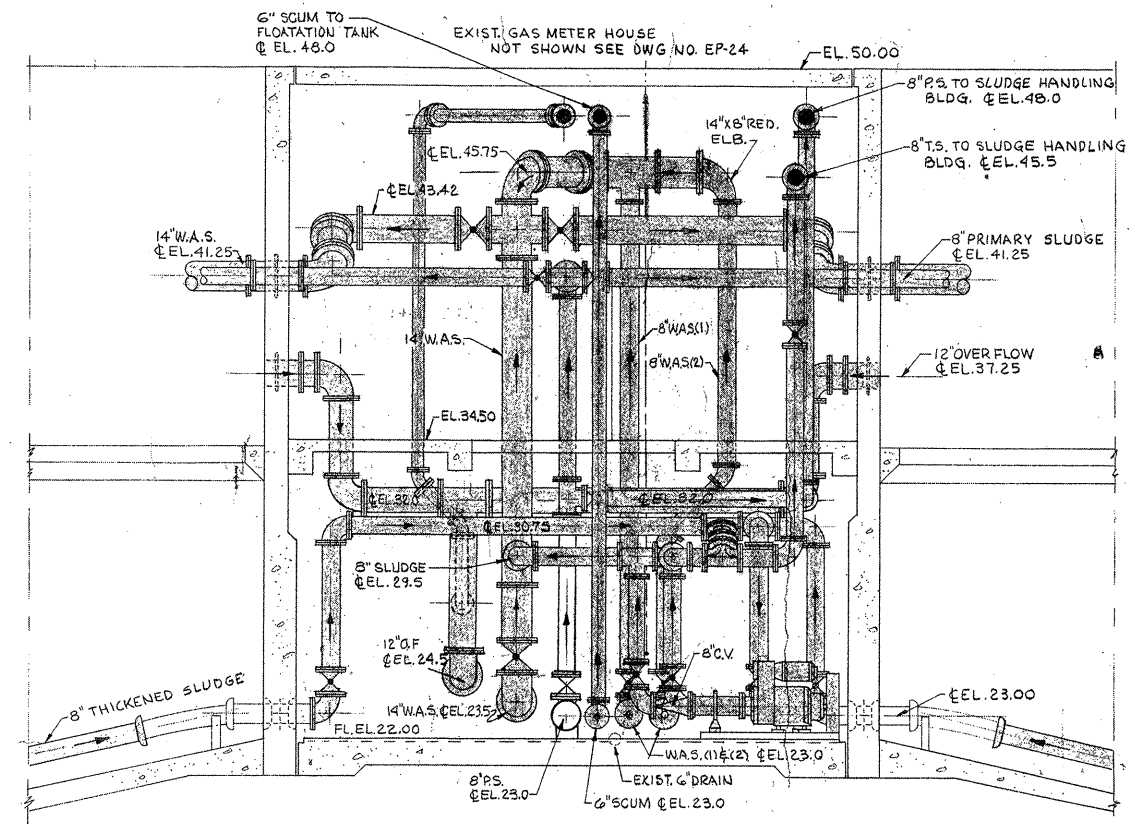
EP-22



LEGEND

- EXISTING PIPING TO REMAIN
- - - NEW PIPING TO BE INSTALLED
- ⊕ PLUG VALVE
- ⊗ GATE VALVE
- CITY WATER
- - - VENT

NOTE: VERIFY ALL ELEVATIONS WHERE NEW PIPE MEETS EXISTING PIPING.



ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



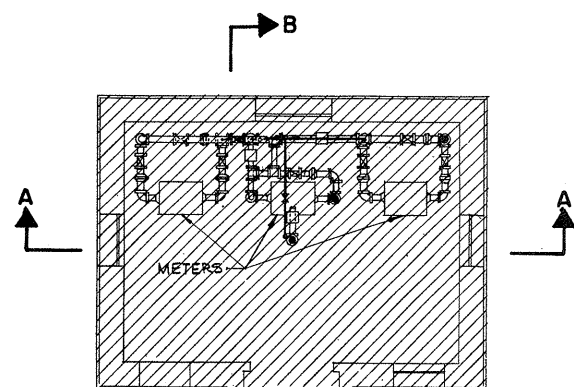
DRAWN: A. MCGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

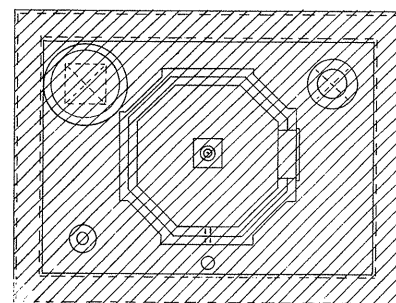
APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 MODIFIED SLUDGE CONTROL BUILDING
 EQUIPMENT AND PIPING
 PLANS AND SECTIONS

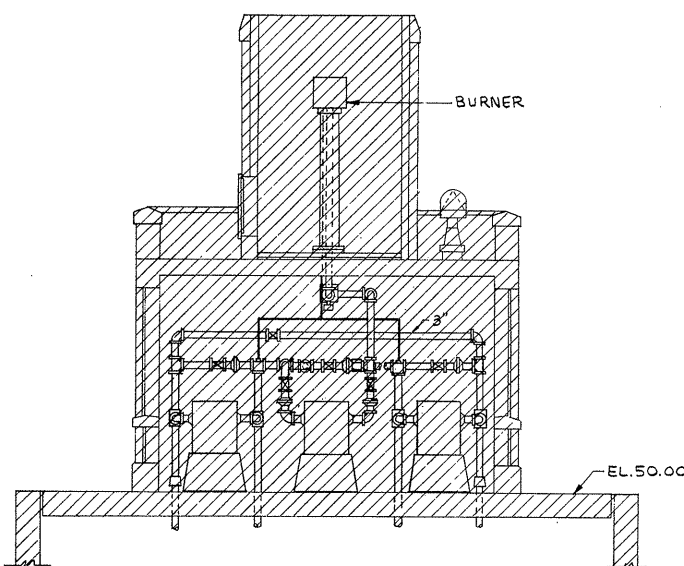
SCALE:
 1/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
EP-23



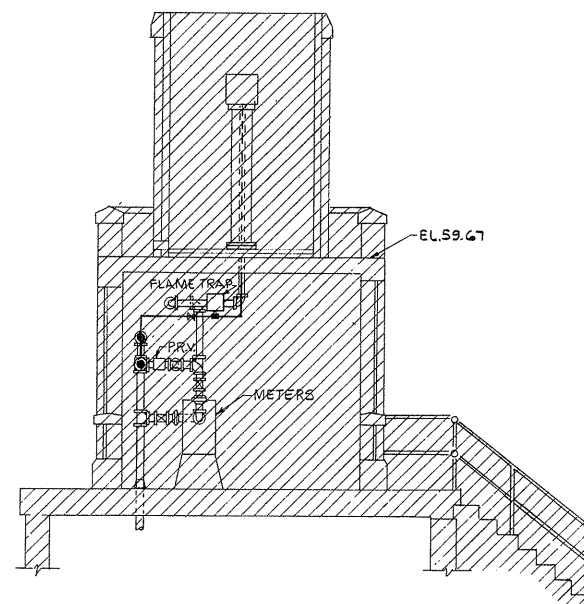
PLAN



PLAN AT ELEV. 59.67



SECTION A-A

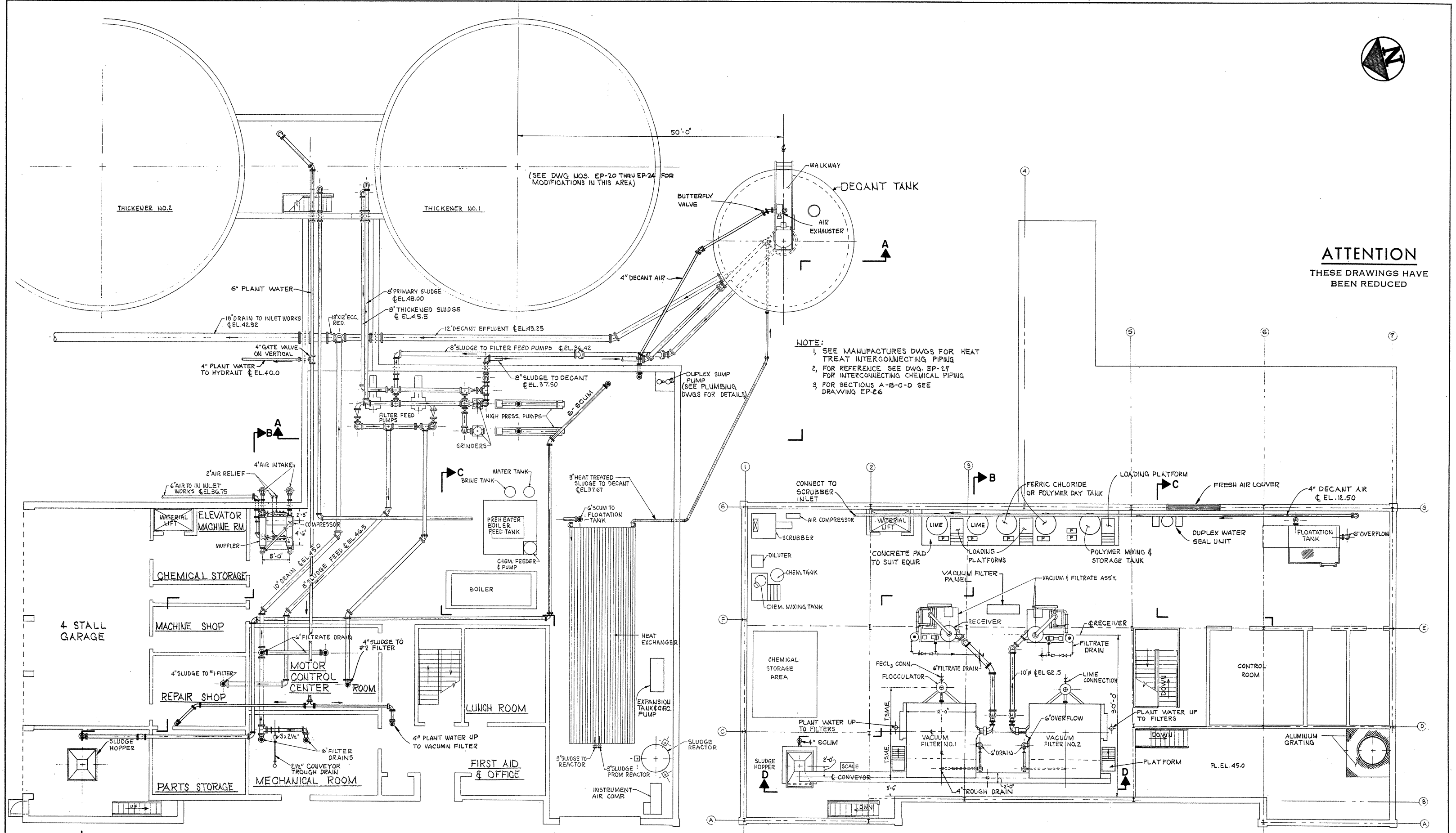


SECTION B-B

NOTE:
1. REMOVE ALL EXISTING PIPING & EQUIPMENT
FROM GAS METER HOUSE

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

								DRAWN: A. MCGIRR DESIGNED: T. MELLO CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY DATE: JULY, 1974		CITY OF TAUNTON, MASSACHUSETTS WASTEWATER TREATMENT FACILITY ADDITIONS & IMPROVEMENTS		SCALE 1/4"=1'-0" CEM NO. 1981	
								CE MAGUIRE, INC. ARCHITECTS • ENGINEERS • PLANNERS PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.		APPROVED CITY OF TAUNTON		DIGESTER BUILDING-EXISTING GAS METER HOUSE EQUIPMENT AND PIPING PLANS AND SECTIONS	
REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE						



(SEE DWG NOS. EP-20 THRU EP-24 FOR MODIFICATIONS IN THIS AREA)

NOTE:
 1. SEE MANUFACTURER'S DWGS FOR HEAT TREAT INTERCONNECTING PIPING
 2. FOR REFERENCE SEE DWG. EP-27 FOR INTERCONNECTING CHEMICAL PIPING
 3. FOR SECTIONS A-B-C-D SEE DRAWING EP-26

ATTENTION
 THESE DRAWINGS HAVE BEEN REDUCED

FIRST FLOOR PLAN
 ELEV. 35.5

SECOND FLOOR PLAN
 ELEV. 50.16

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: A. MCGIRR DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED

Charles A. Perry
 CITY OF TAUNTON

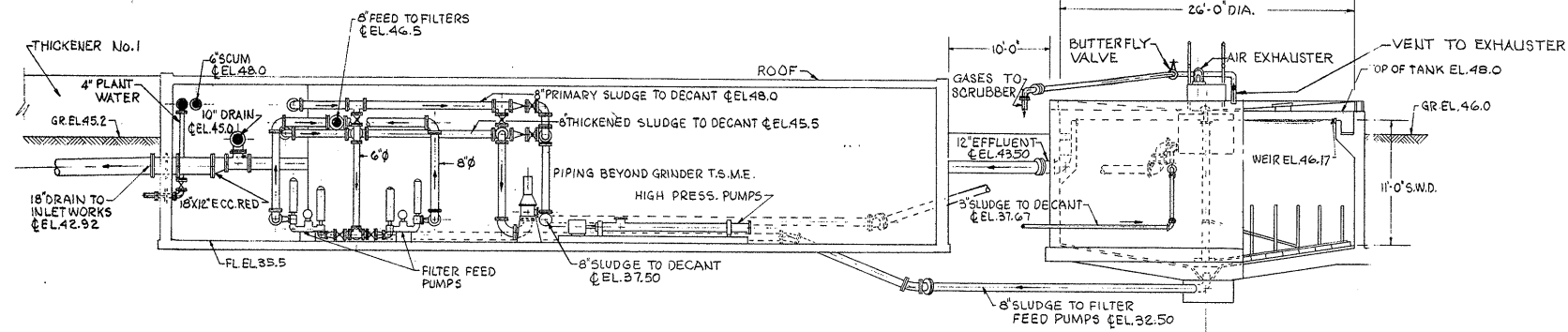
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

SLUDGE HANDLING BUILDING
EQUIPMENT AND PIPING PLANS

SCALE
 1/8" = 1'-0"

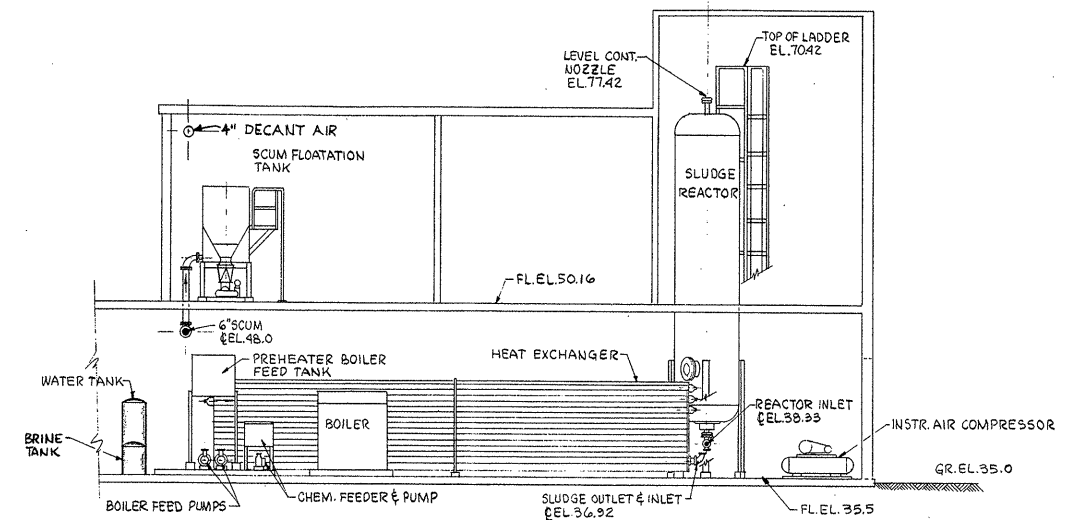
CEM NO. 1981

DRAWING NO.
EP-25



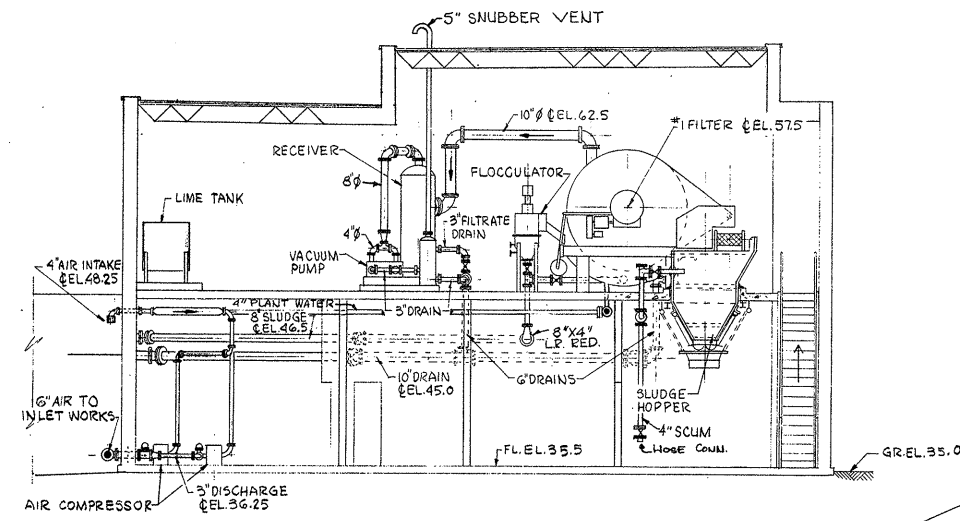
SECTION A-A

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



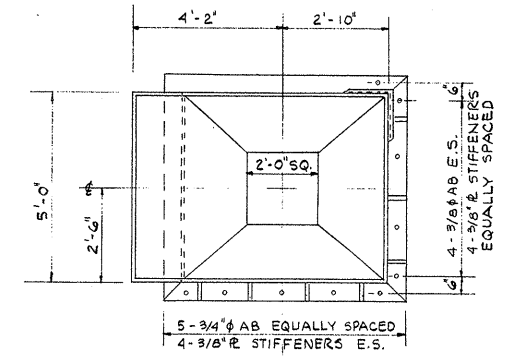
SECTION C-C

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



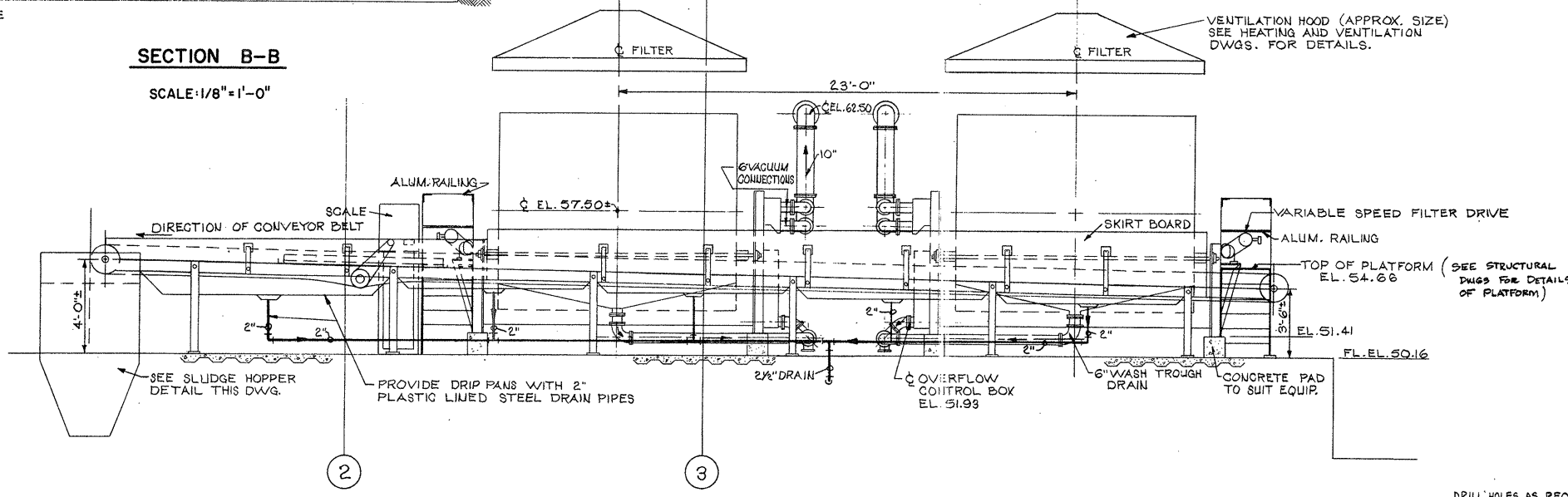
SECTION B-B

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



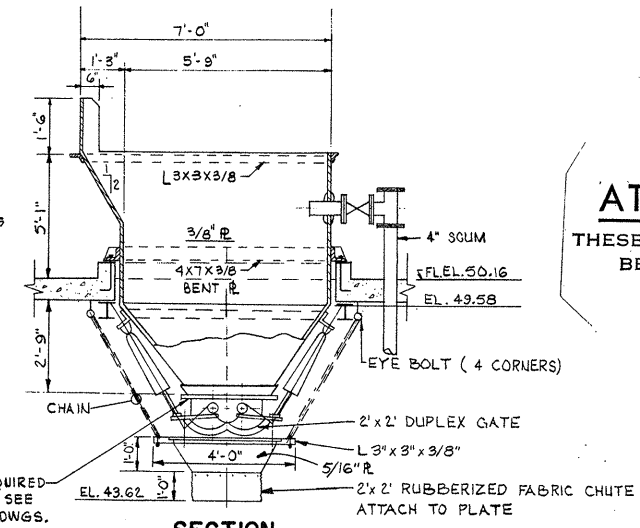
PLAN

NOTE:
 1. HOPPER IS SYMM. ABOUT & EXCEPT AS SHOWN.
 2. ALL WELDED CONSTRUCTION.
 3. ALL ANGLE & BENT & MEMBERS TO BE CONTINUOUS ALL 4 SIDES EXCEPT AS SHOWN, WELD TO HOPPER & MITER & WELD ALL CORNERS
 1/4" 30° 12" (TYP)



SECTION D-D

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



SECTION SLUDGE HOPPER DETAIL

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

ATTENTION
 THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

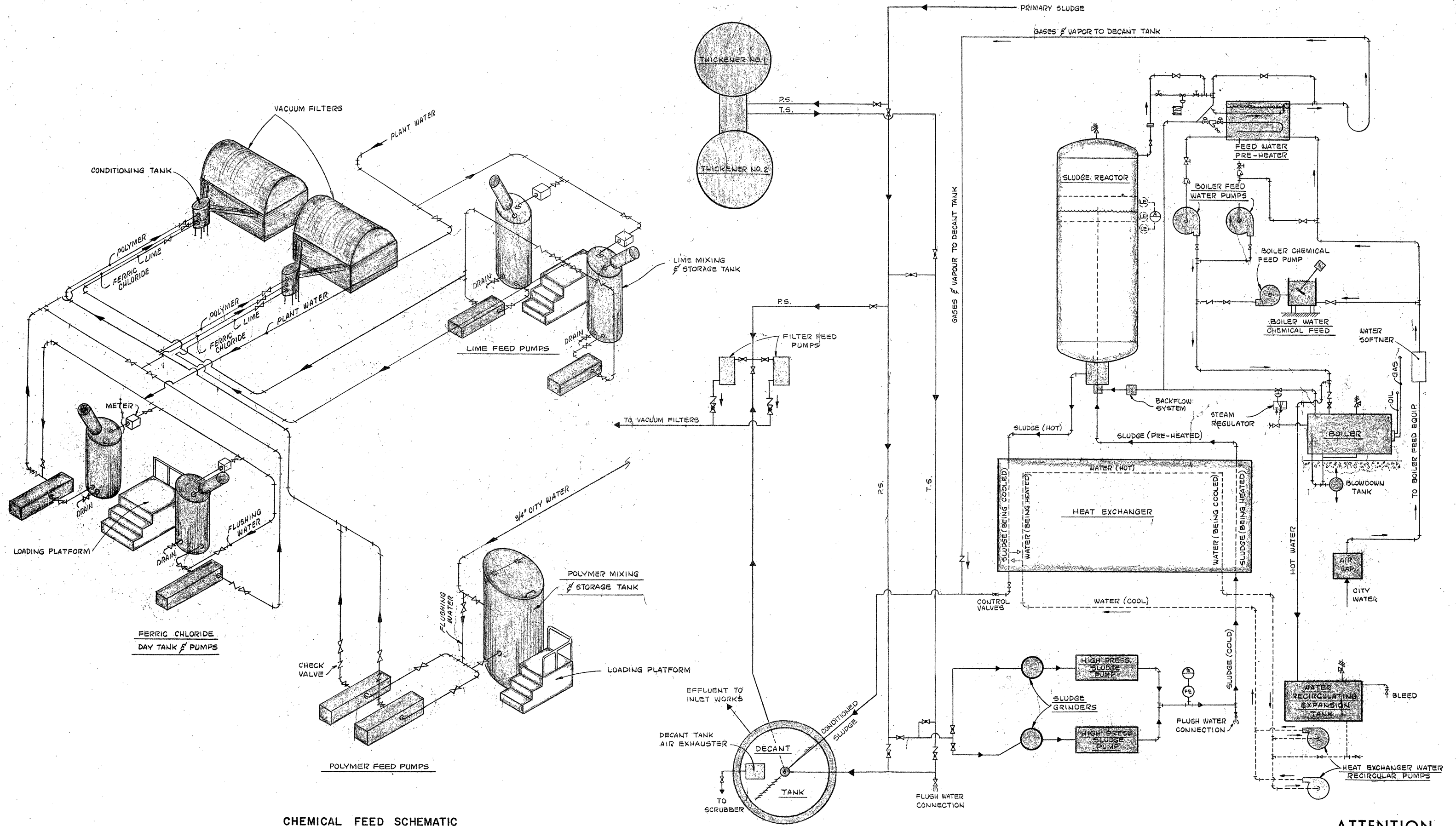


DR./WN. A. MCGIRR & S. ESPOSITO DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974
C/E MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Long
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
 EQUIPMENT AND PIPING
 PLAN AND SECTIONS

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
EP-26



CHEMICAL FEED SCHEMATIC

HEAT TREATMENT SCHEMATIC

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

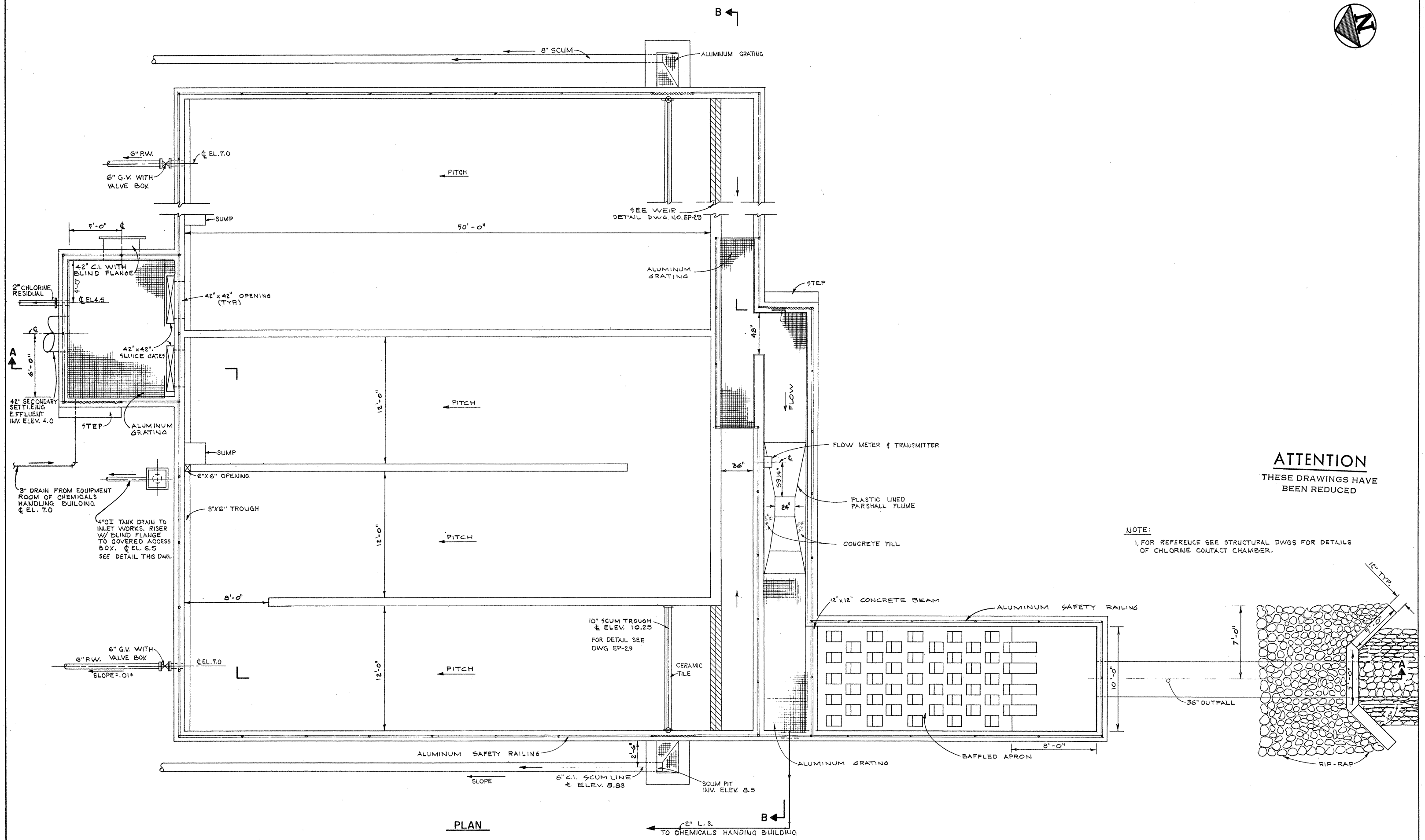


DRAWN: F. OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED:
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
EQUIPMENT AND PIPING
HEAT TREATMENT SCHEMATIC
CHEMICAL FEED SCHEMATIC

SCALE:
 NO SCALE
 CEM NO. 1981
 DRAWING NO.
EP-27

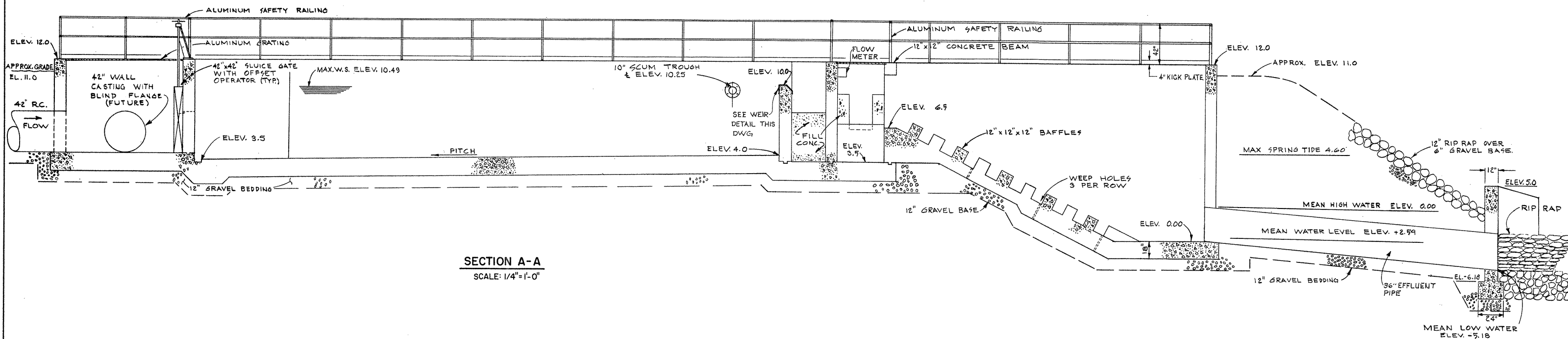


ATTENTION
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BEEN REDUCED

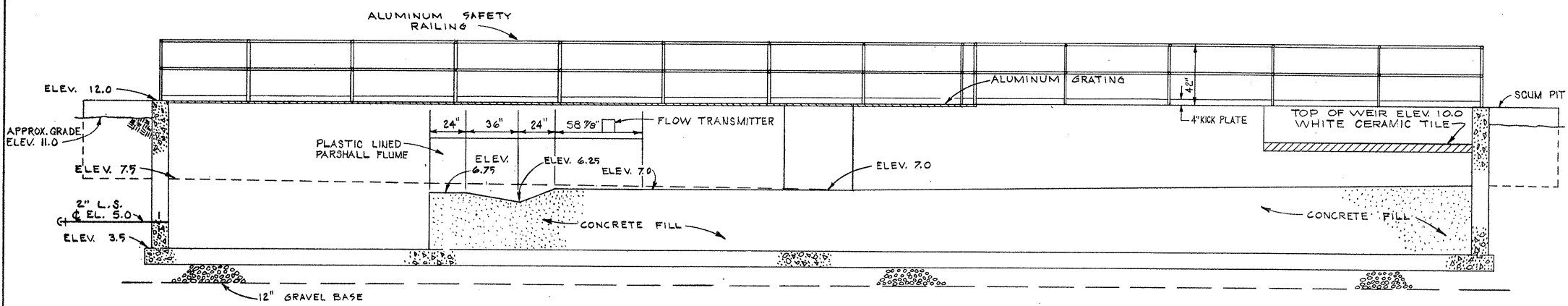
NOTE:
1. FOR REFERENCE SEE STRUCTURAL DWGS FOR DETAILS
OF CHLORINE CONTACT CHAMBER.

PLAN

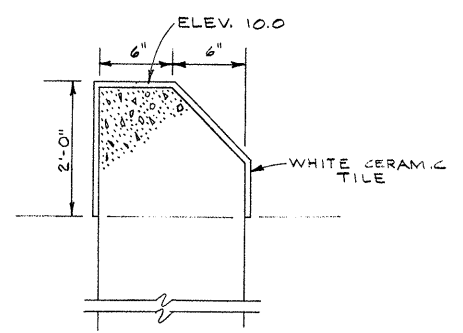
								DRAWN: S.J. ESPOSITO DESIGNED: J. O'REILLY CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY DATE: JULY, 1974		CITY OF TAUNTON, MASSACHUSETTS WASTEWATER TREATMENT FACILITY ADDITIONS & IMPROVEMENTS		SCALE 1/4" = 1'-0"	
								CE MAGUIRE, INC. ARCHITECTS • ENGINEERS • PLANNERS PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.		APPROVED 		CHLORINE CONTACT CHAMBER EQUIPMENT AND PIPING PLAN	
REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE						



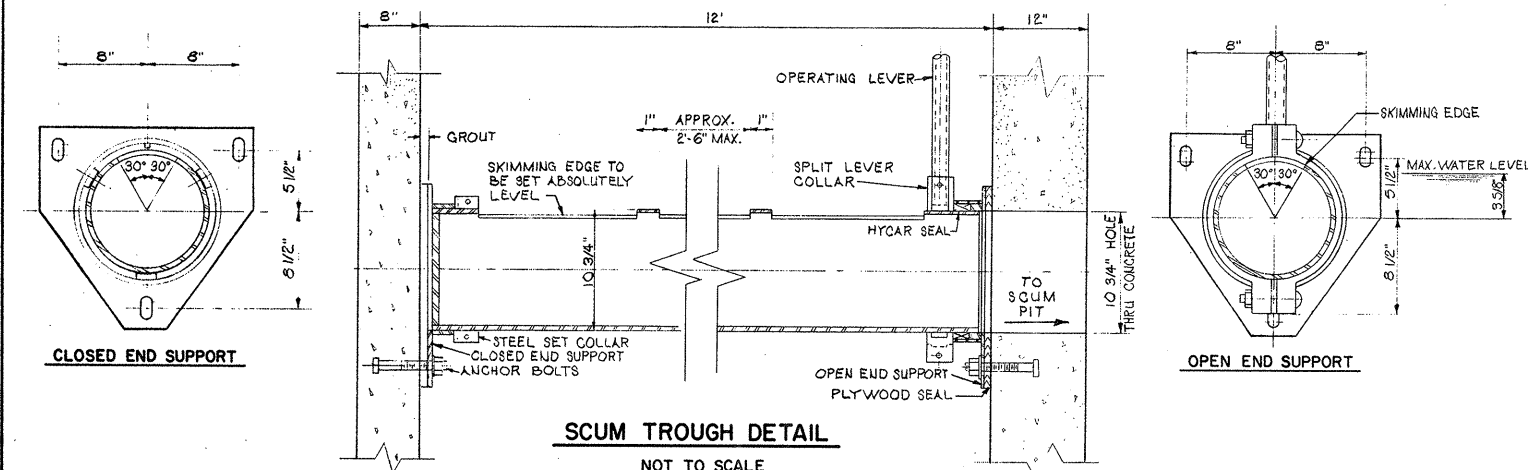
SECTION A-A
SCALE: 1/4"=1'-0"



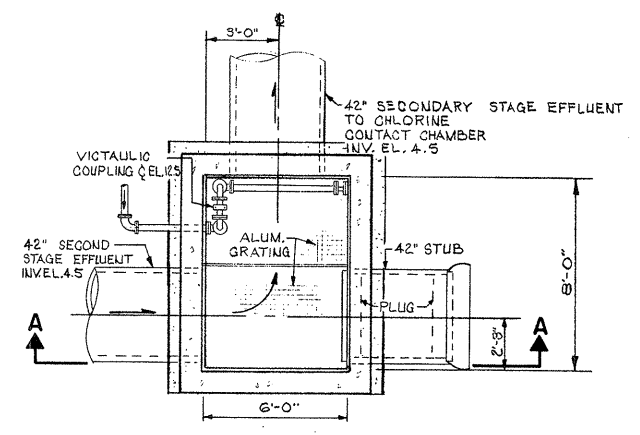
SECTION B-B
SCALE: 1/4"=1'-0"



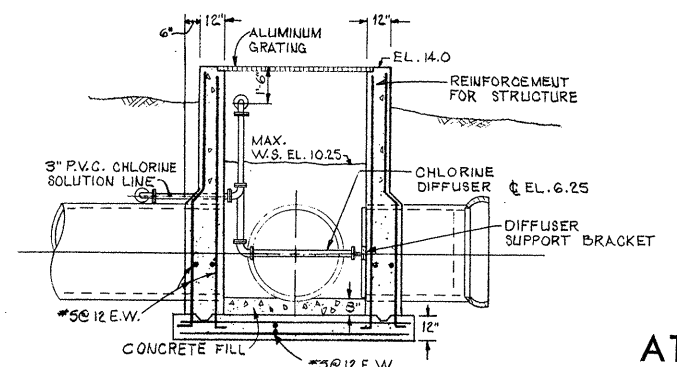
WEIR DETAIL
SCALE: 1-1/2"=1'-0"



SCUM TROUGH DETAIL
NOT TO SCALE



PLAN



SECTION A-A

CHLORINATION MANHOLE DETAIL
SCALE: 1/4"=1'-0"

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



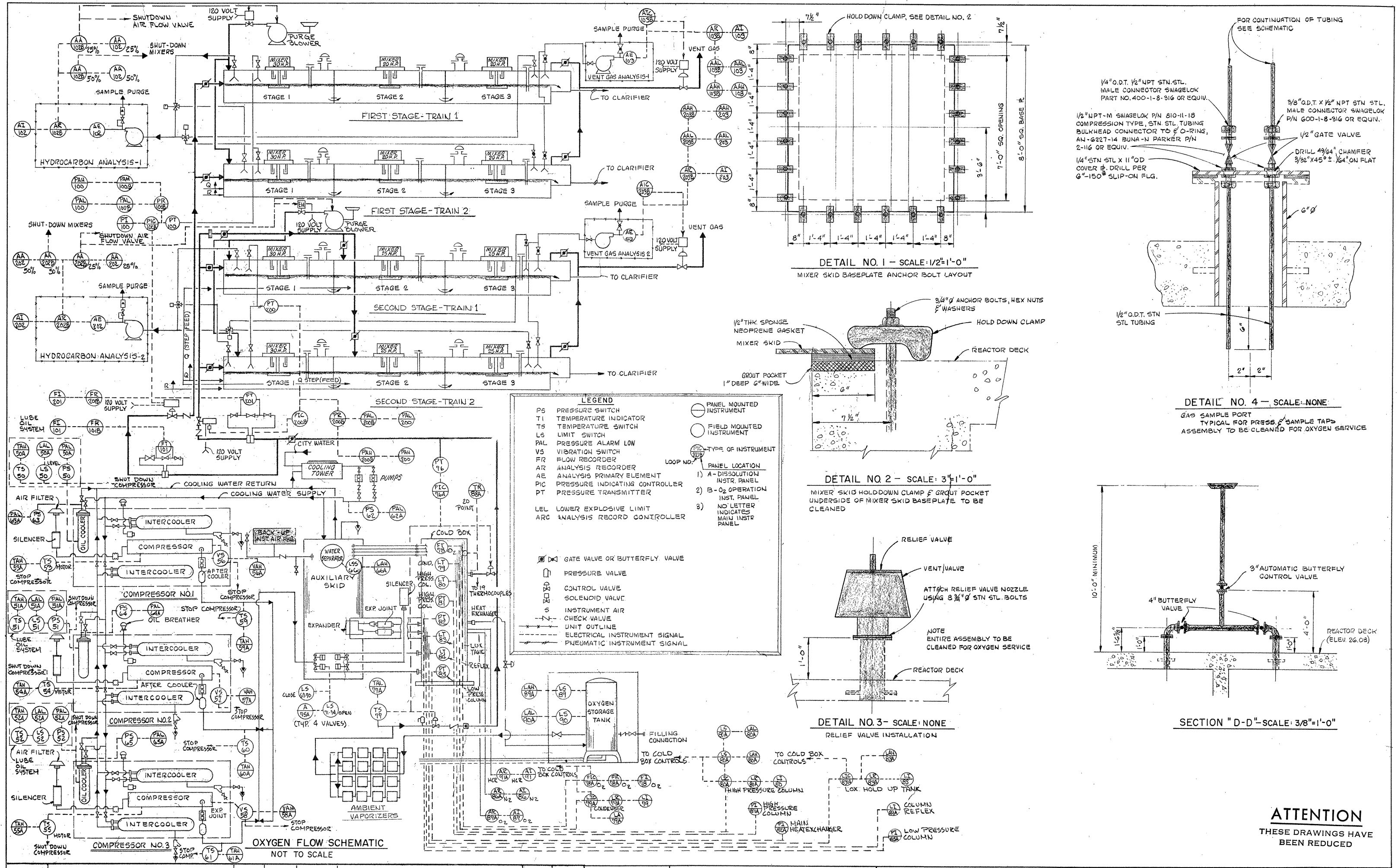
DRAWN: S.J. ESPOSITO DESIGNED: J. O'REILLY
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. [Signature]
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 CHLORINE CONTACT CHAMBER
 EQUIPMENT AND PIPING
 SECTIONS AND DETAILS

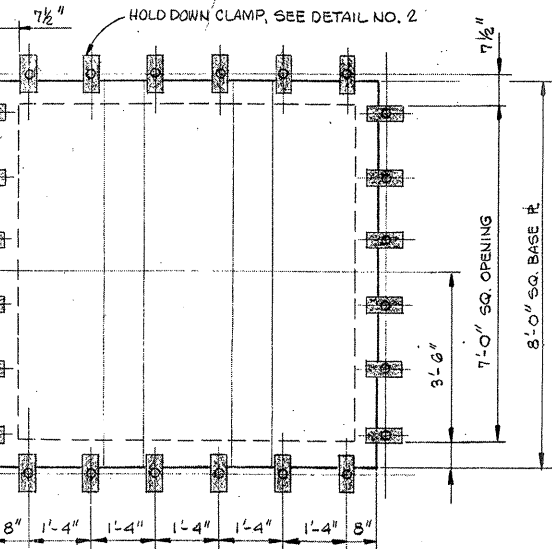
SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
EP-29



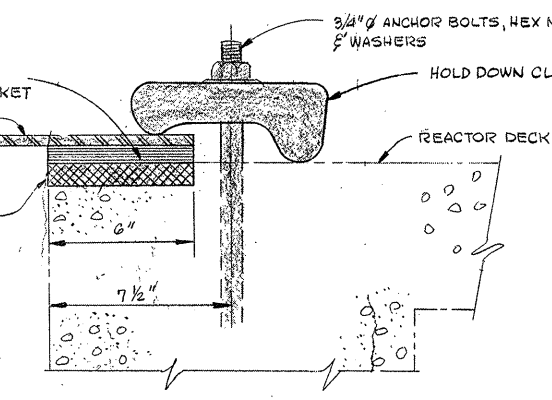
LEGEND

PS	PRESSURE SWITCH	○	PANEL MOUNTED INSTRUMENT
TI	TEMPERATURE INDICATOR	○	FIELD MOUNTED INSTRUMENT
TS	TEMPERATURE SWITCH	○	TYPE OF INSTRUMENT
LS	LIMIT SWITCH	○	1) A - DISSOLUTION INSTR. PANEL
PAL	PRESSURE ALARM LOW	○	2) B - O ₂ OPERATION INSTR. PANEL
VS	VIBRATION SWITCH	○	3) NO LETTER INDICATES MAIN INSTR. PANEL
FR	FLOW RECORDER		
AR	ANALYSIS RECORDER		
AE	ANALYSIS PRIMARY ELEMENT		
PIC	PRESSURE INDICATING CONTROLLER		
PT	PRESSURE TRANSMITTER		
LEL	LOWER EXPLOSIVE LIMIT		
ARC	ANALYSIS RECORD CONTROLLER		

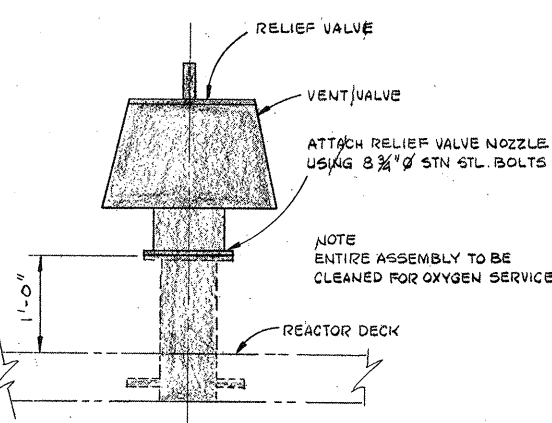
⊠	GATE VALVE OR BUTTERFLY VALVE
⊞	PRESSURE VALVE
⊞	CONTROL VALVE
⊞	SOLENOID VALVE
⊞	INSTRUMENT AIR
⊞	CHECK VALVE
⊞	UNIT OUTLINE
⊞	ELECTRICAL INSTRUMENT SIGNAL
⊞	PNEUMATIC INSTRUMENT SIGNAL



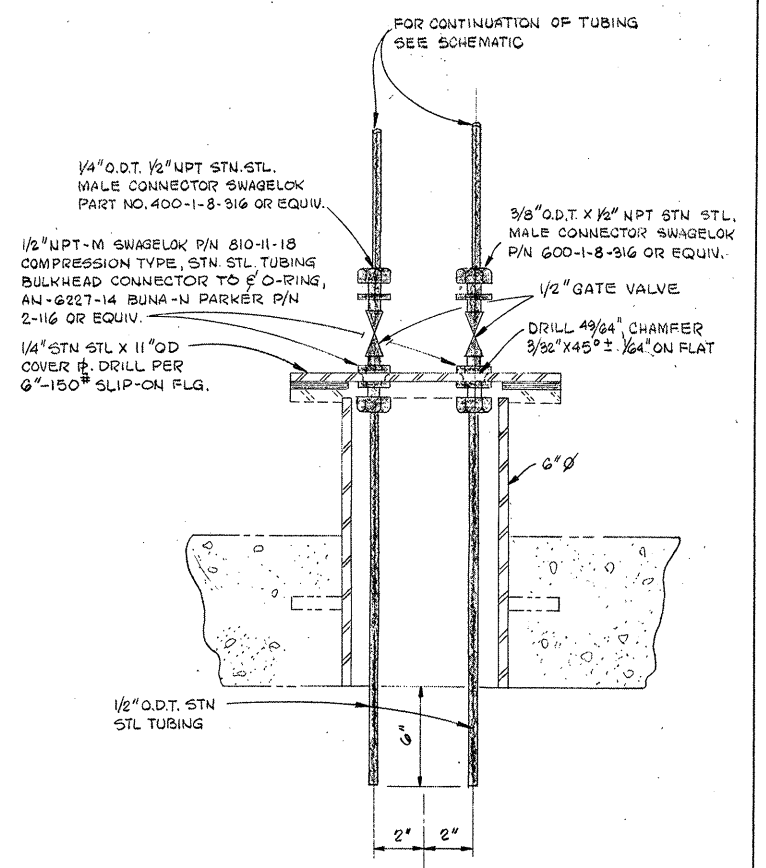
DETAIL NO. 1 - SCALE: 1/2"=1'-0"
MIXER SKID BASEPLATE ANCHOR BOLT LAYOUT



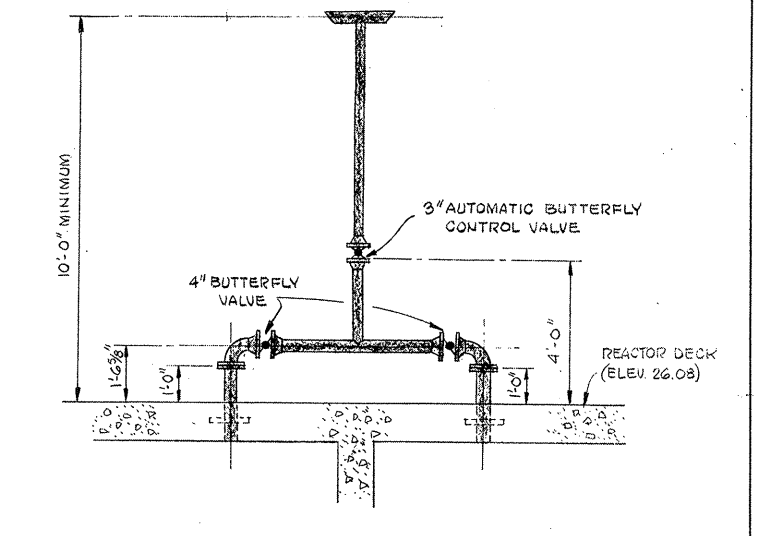
DETAIL NO. 2 - SCALE: 3/4"=1'-0"
MIXER SKID HOLD-DOWN CLAMP & GROUT POCKET UNDER-SIDE OF MIXER SKID BASEPLATE TO BE CLEANED



DETAIL NO. 3 - SCALE: NONE
RELIEF VALVE INSTALLATION



DETAIL NO. 4 - SCALE: NONE
GAS SAMPLE PORT TYPICAL FOR PRESS. SAMPLE TAPS ASSEMBLY TO BE CLEANED FOR OXYGEN SERVICE



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

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: F. OAKES DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS - ENGINEERS - PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Perry
 CITY OF TAUNTON

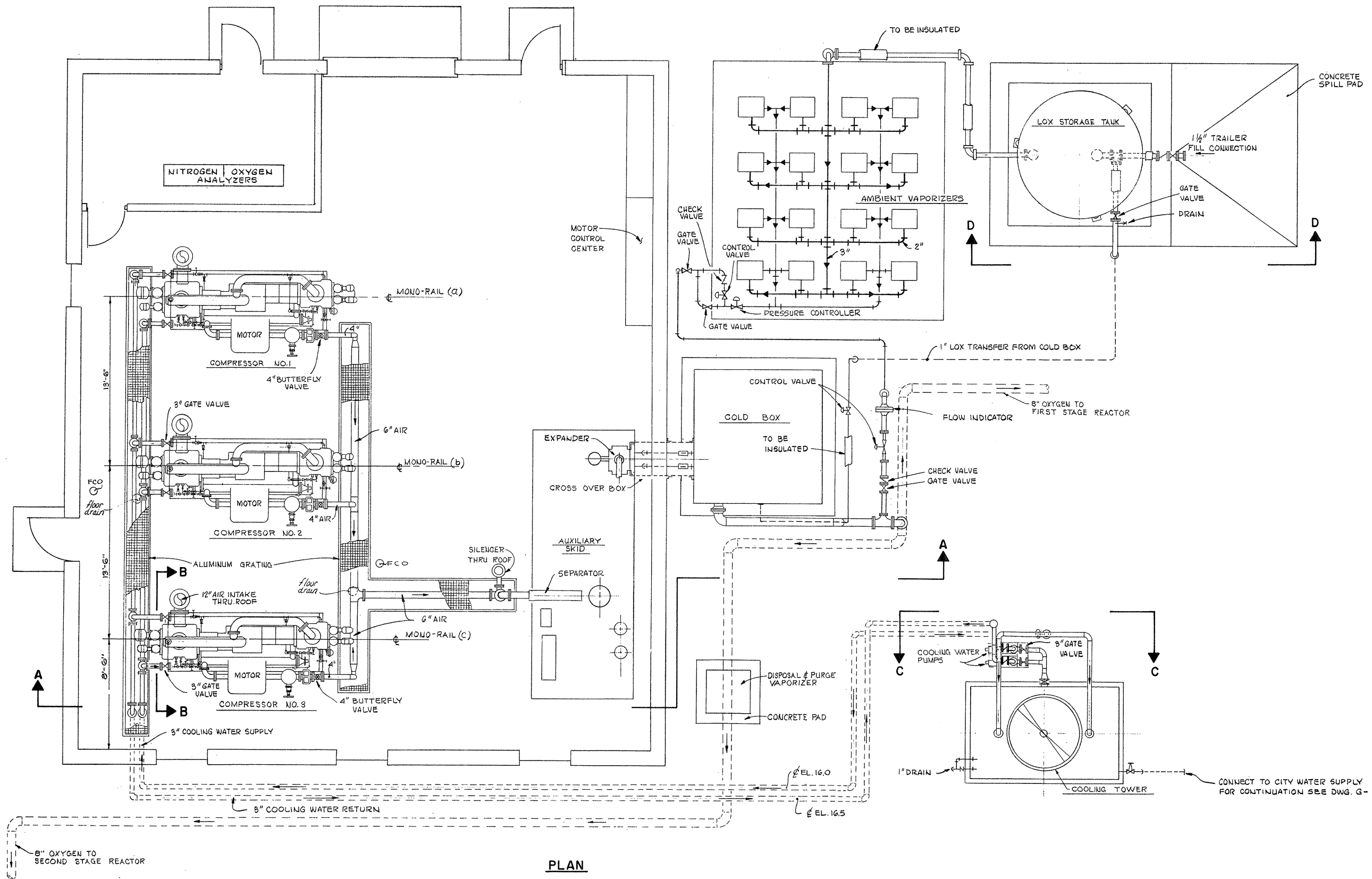
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OXYGEN GENERATION & DISSOLUTION EQUIPMENT,
 EQUIPMENT, PIPING, FLOW SCHEMATIC
 INSTRUMENTATION AND DETAILS

SCALE
 AS SHOWN

CEM NO. 1981

DRAWING NO.
EP-30



PLAN

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: S.J. ESPOSITO DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Pury
 CITY OF TAUNTON

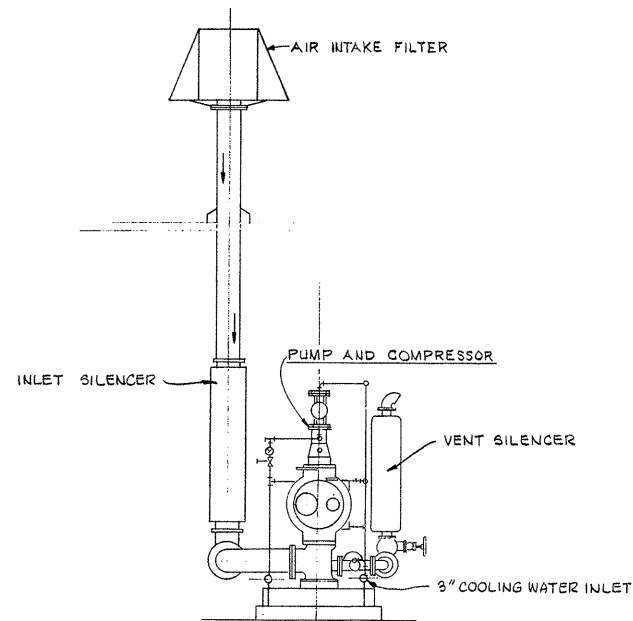
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OXYGEN GENERATION BUILDING
EQUIPMENT AND PIPING PLAN

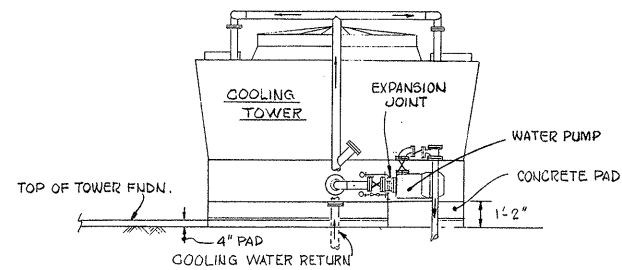
SCALE
 1/4" = 1'-0"

CEM NO. 1981

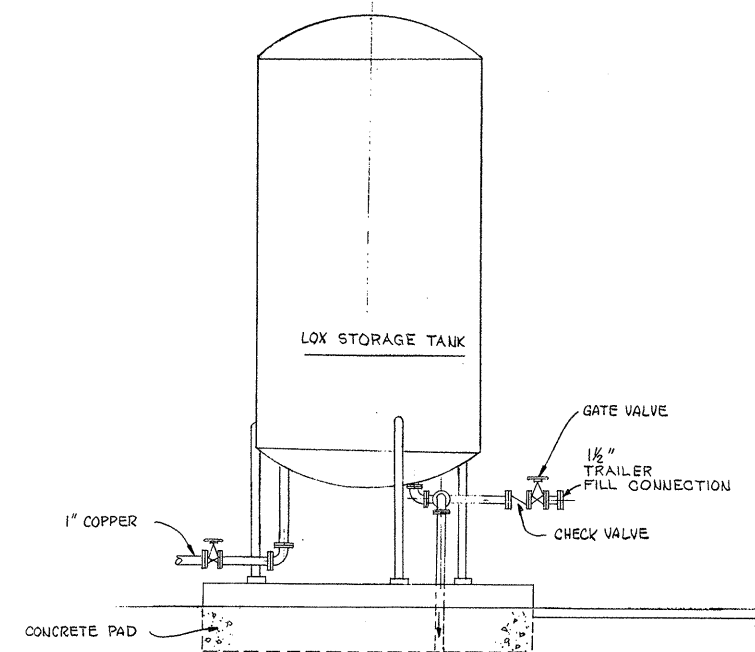
DRAWING NO.
EP-31



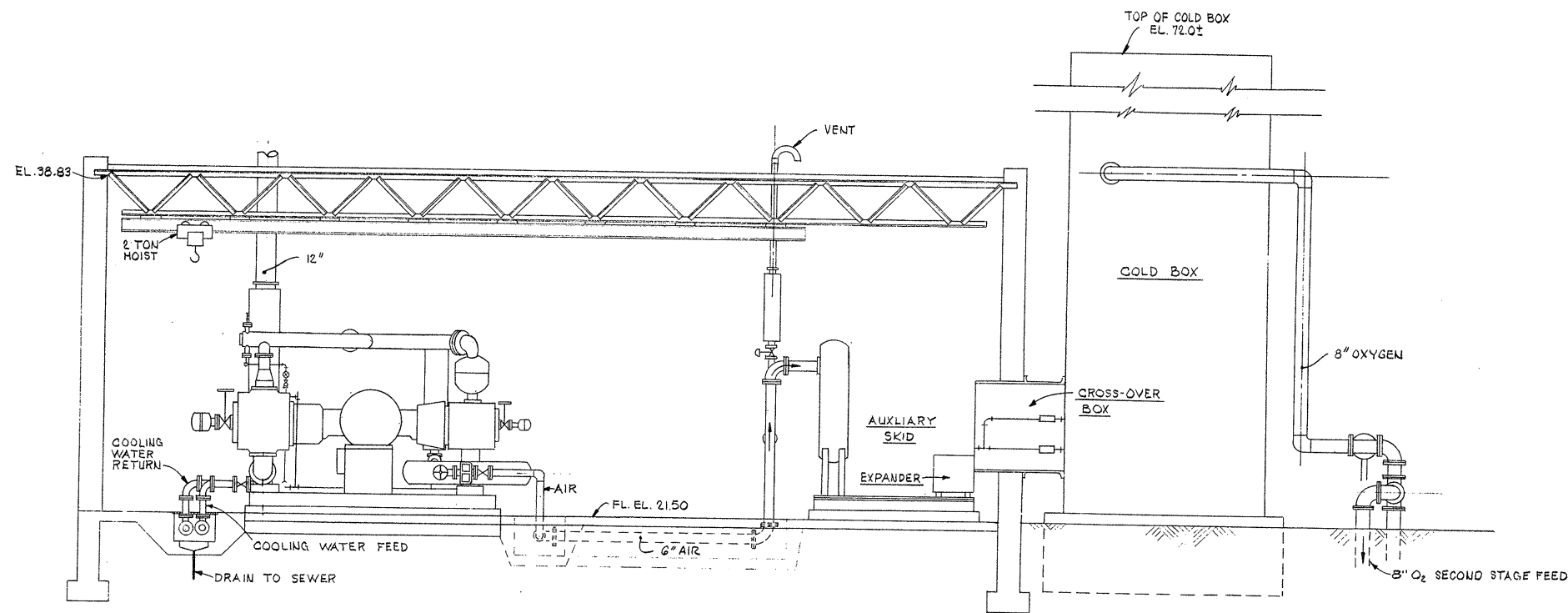
SECTION B-B



SECTION C-C



SECTION D-D



SECTION A-A

NOTE
 1. FOR REFERENCE SEE ARCHITECTURAL AND STRUCTURAL DWGS. FOR DETAILS.
 2. FOR FLOOR DRAIN DETAILS SEE THE PLUMBING DWGS.

ATTENTION
 THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: S.J. ESPOSITO DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

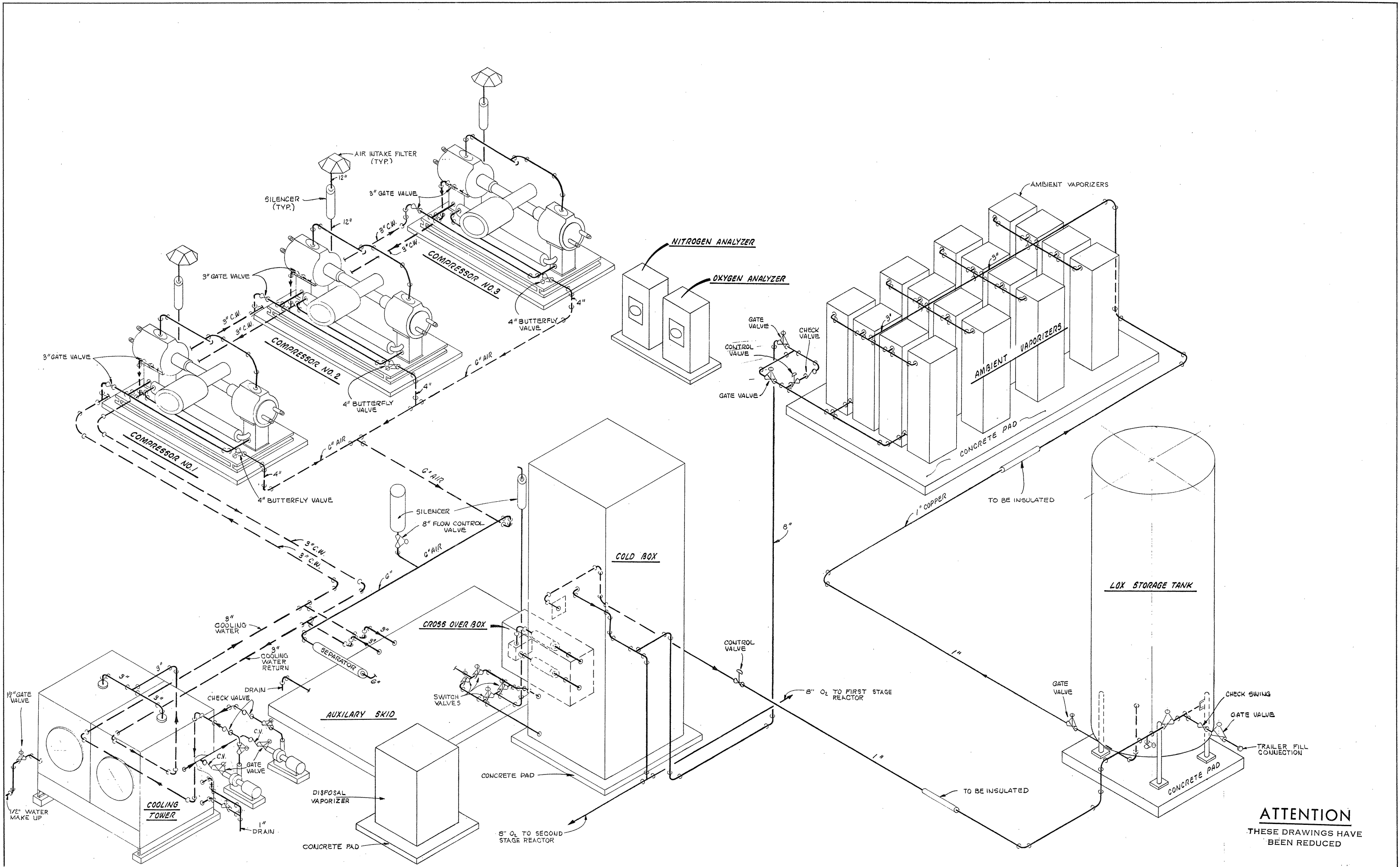
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OXYGEN GENERATION BUILDING
 EQUIPMENT AND PIPING
 SECTIONS

SCALE
 1/4"=1'-0"

CEM NO. 1981

DRAWING NO.
EP-32



ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

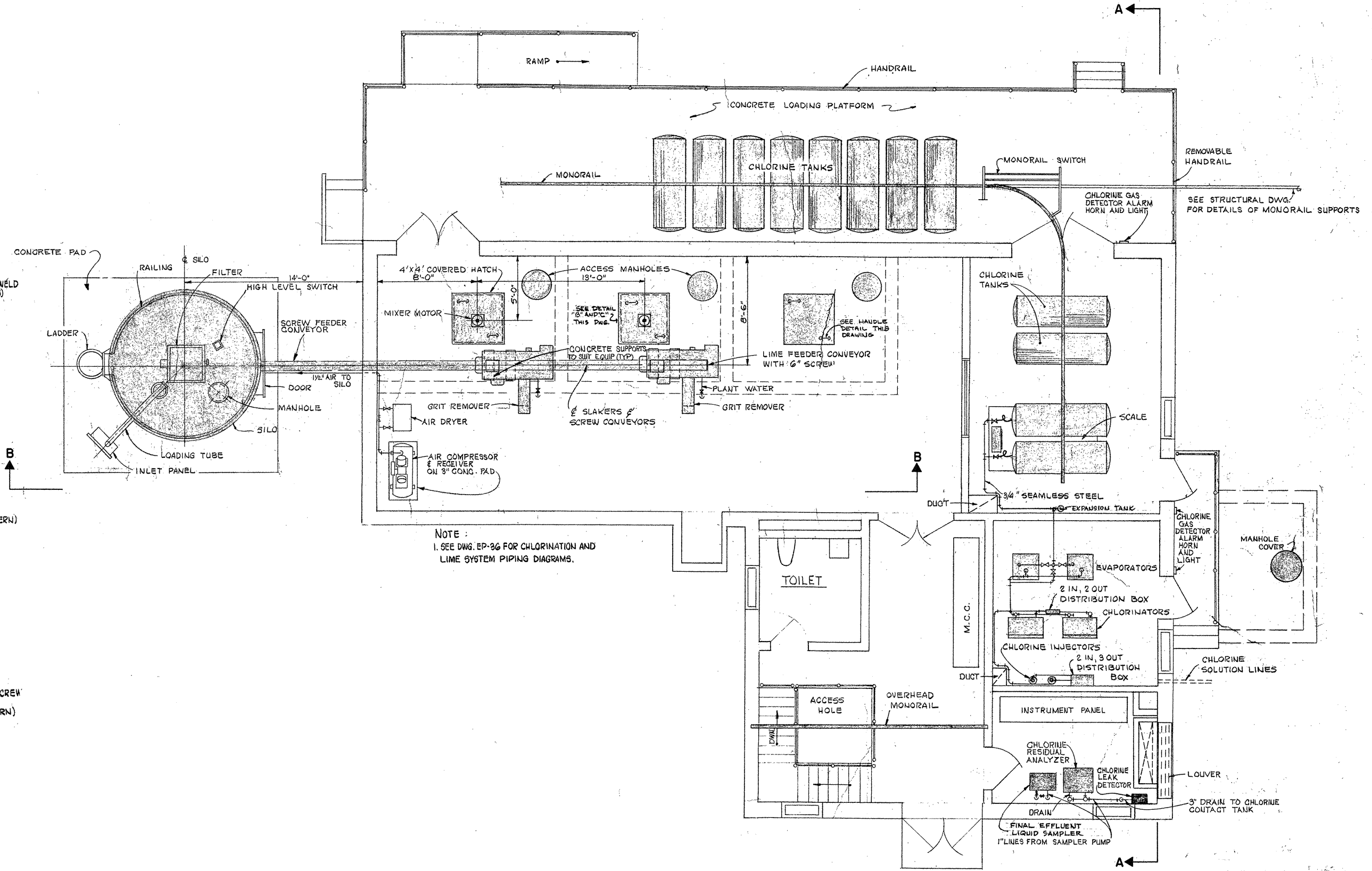
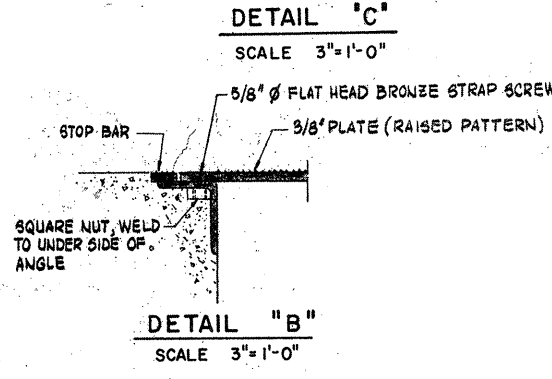
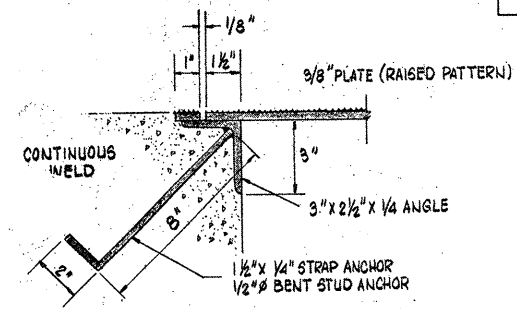
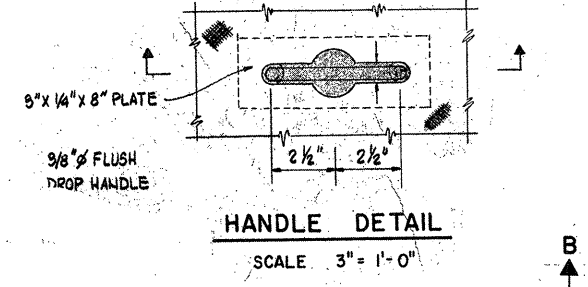
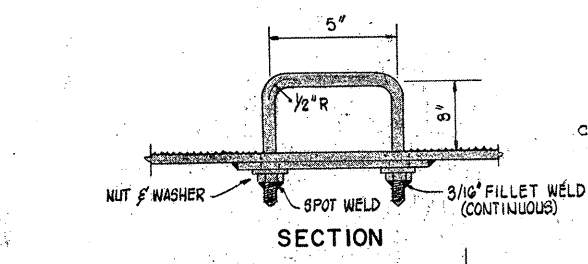
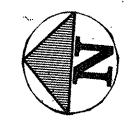


DRAWN: S.J. ESPOSITO DESIGNED: T. MELLO
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. King
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
OXYGEN GENERATION BUILDING
EQUIPMENT AND PIPING
OXYGEN GENERATION SCHEMATIC

SCALE
 NO. SCALE
 CEM NO. 1981
 DRAWING NO.
EP-33



NOTE:
1. SEE DWG. EP-36 FOR CHLORINATION AND LIME SYSTEM PIPING DIAGRAMS.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



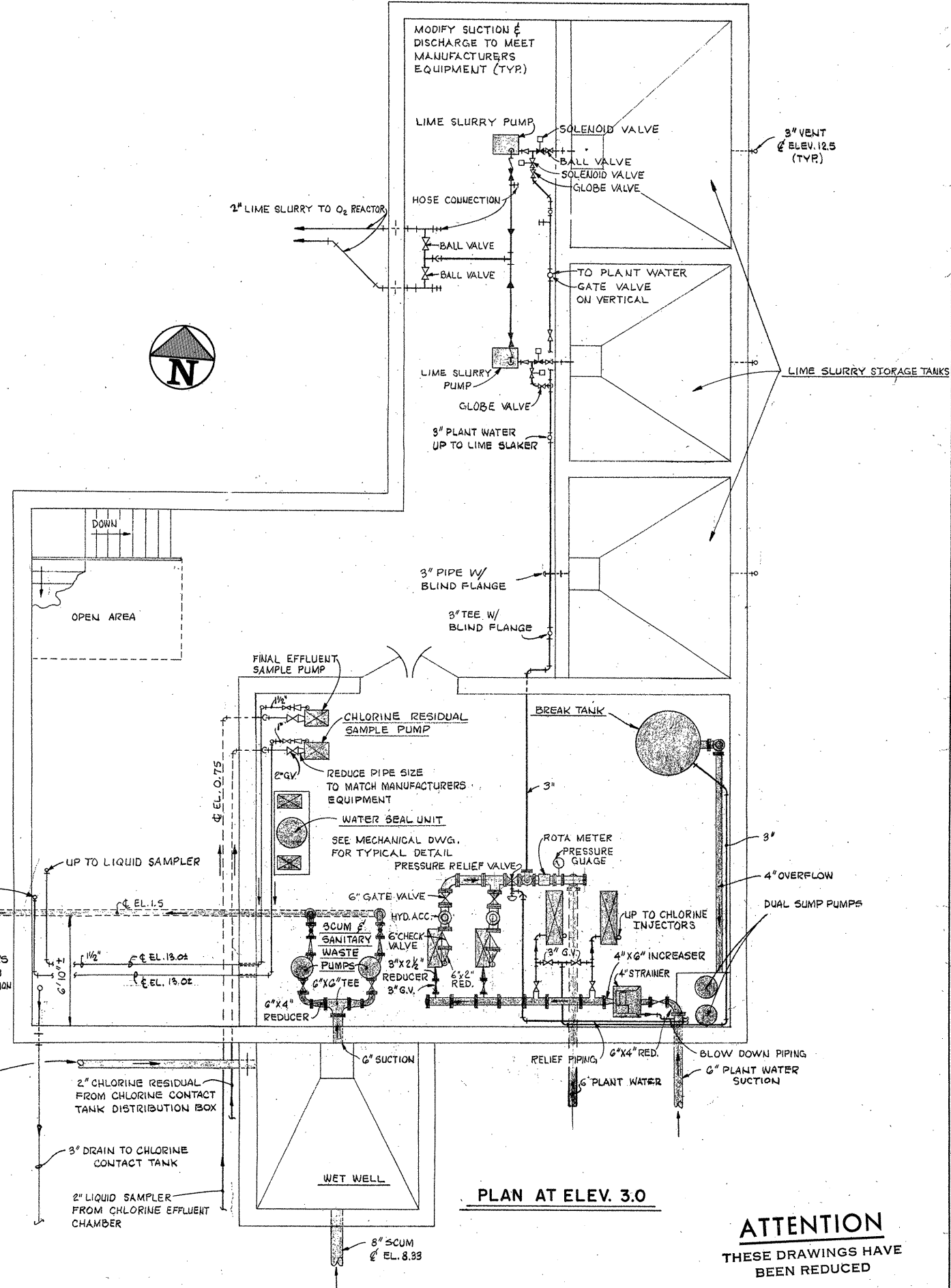
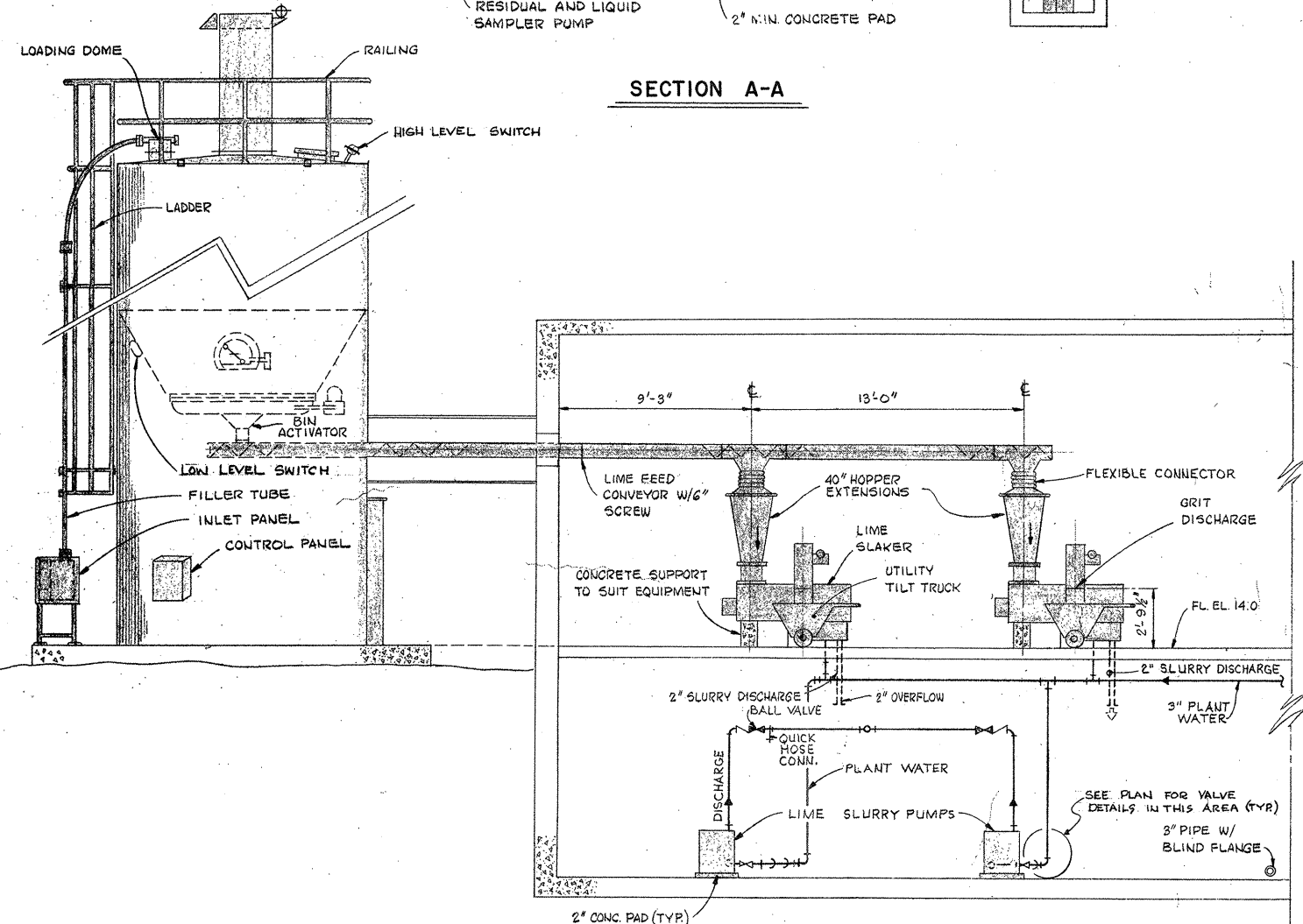
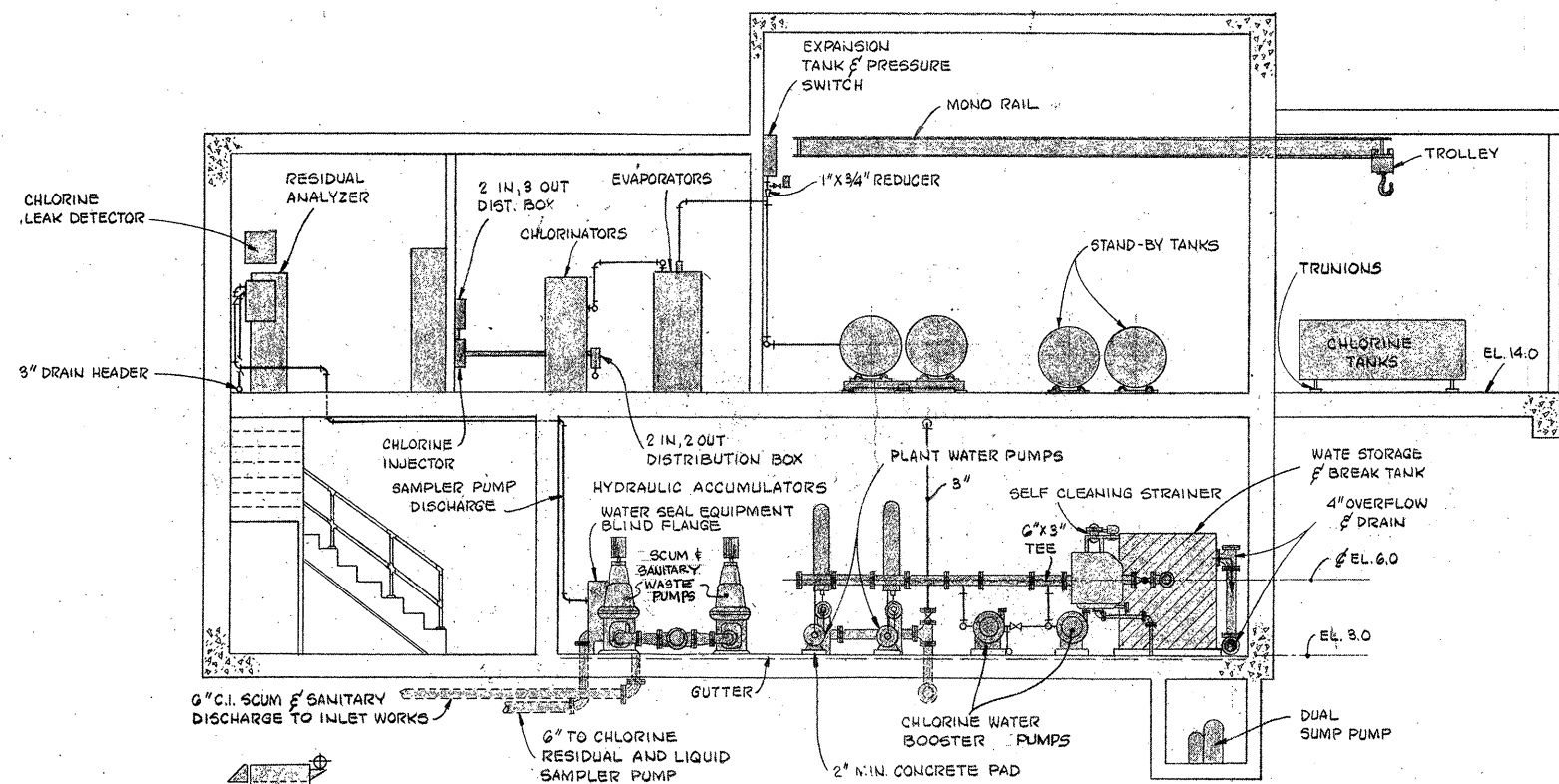
CE MAGUIRE, INC.
ARCHITECTS • ENGINEERS • PLANNERS
PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

DATE: JULY, 1974

APPROVED
Charles A. Pury
CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
CHEMICALS HANDLING BUILDING
EQUIPMENT AND PIPING
PLAN AT ELEV. 24.0

SCALE:
1/4" = 1'-0"
CEM NO. 1981
DRAWING NO.
EP-34



ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



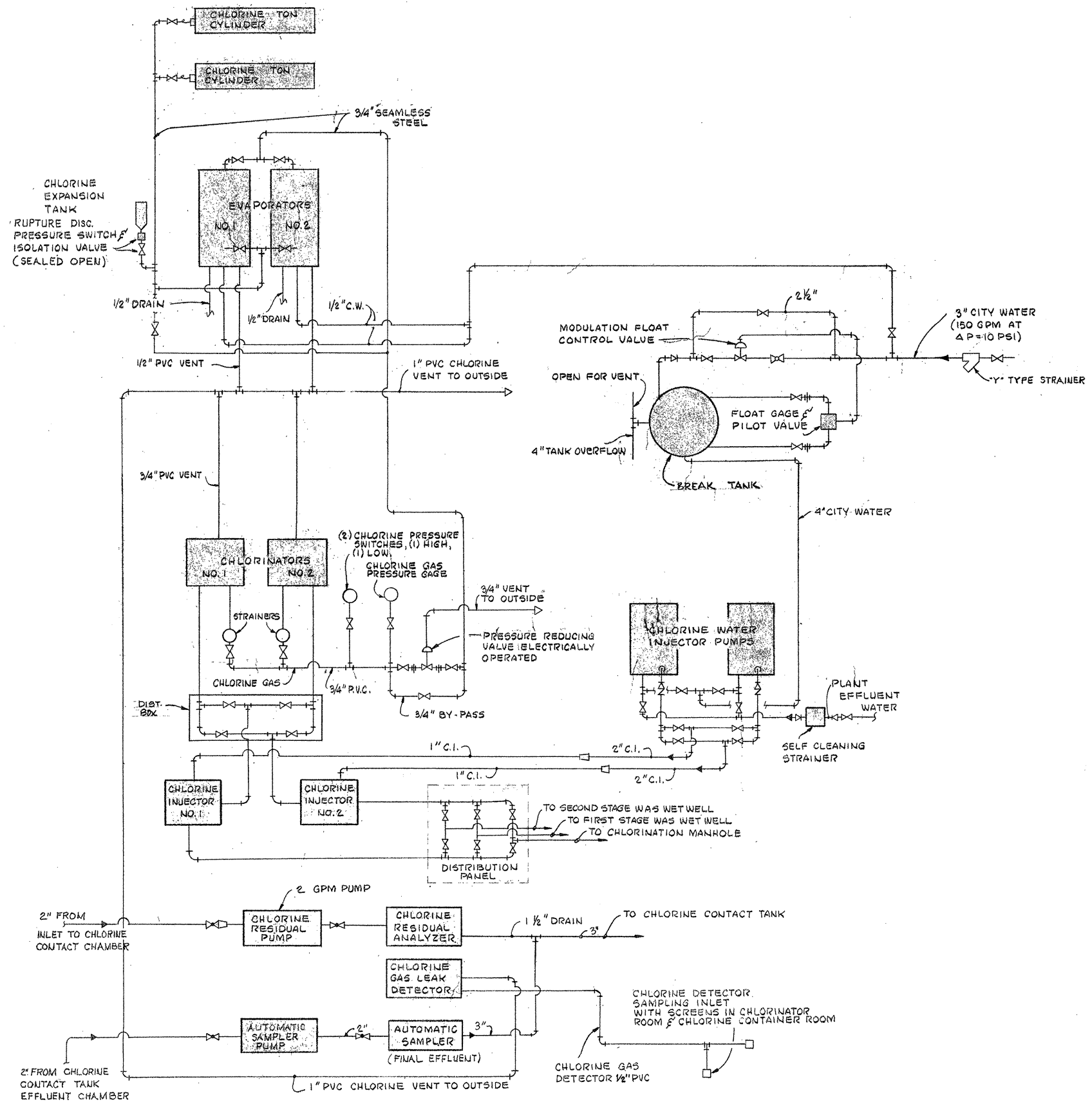
DRAWN: F. OAKES DESIGNED: J. O'REILLY
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED

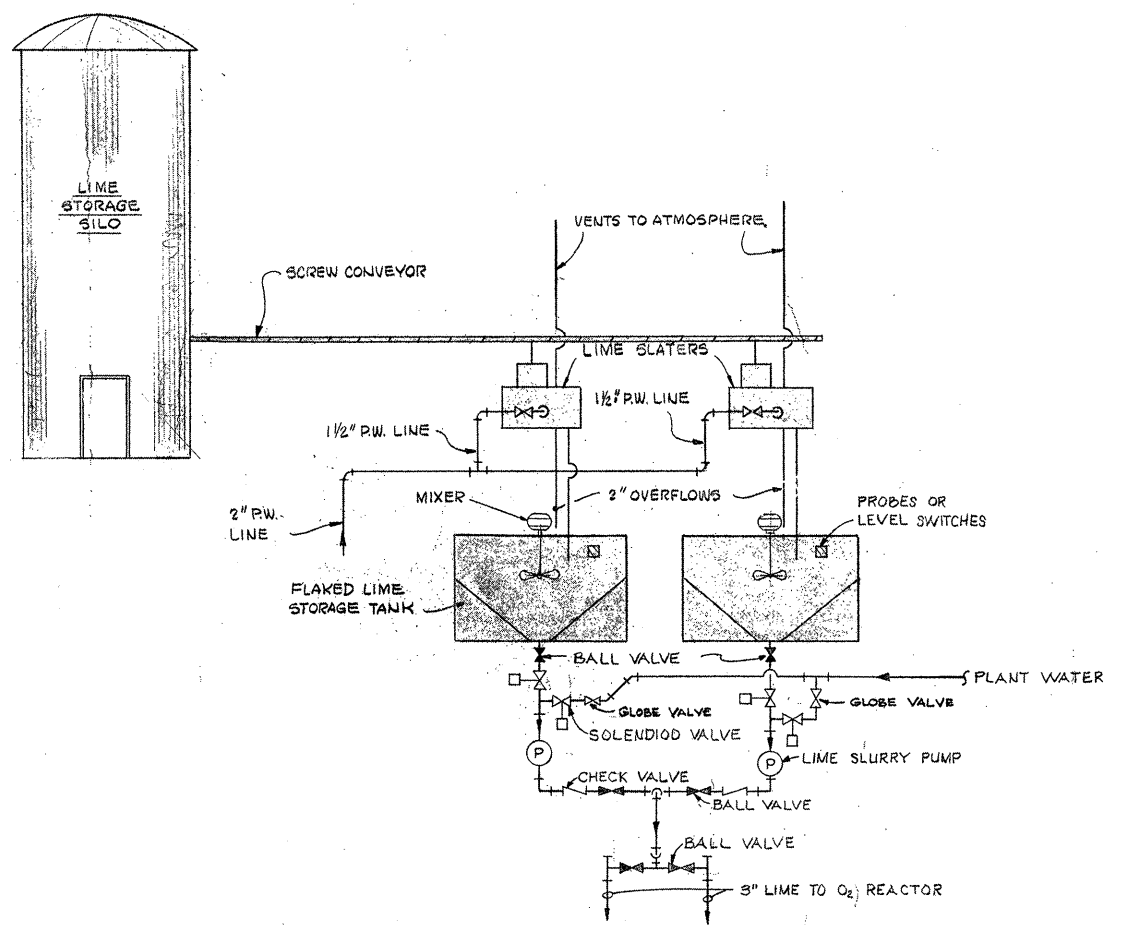
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 CHEMICALS HANDLING BUILDING
EQUIPMENT AND PIPING
PLAN AND SECTIONS

SCALE:
 1/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
EP-35



CHLORINATION SYSTEM PIPING DIAGRAM
NO SCALE



LIME SLAKING SYSTEM SCHEMATIC
NO SCALE

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



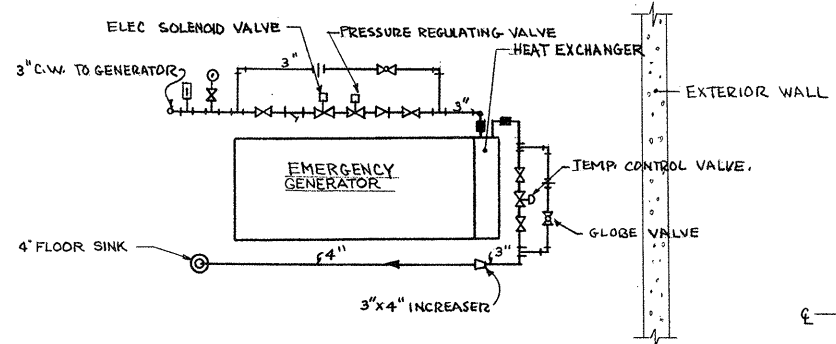
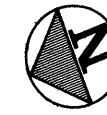
DRAWN: F. OAKES DESIGNED: J. O'REILLY
 CHECKED: W. HUNDLEY APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
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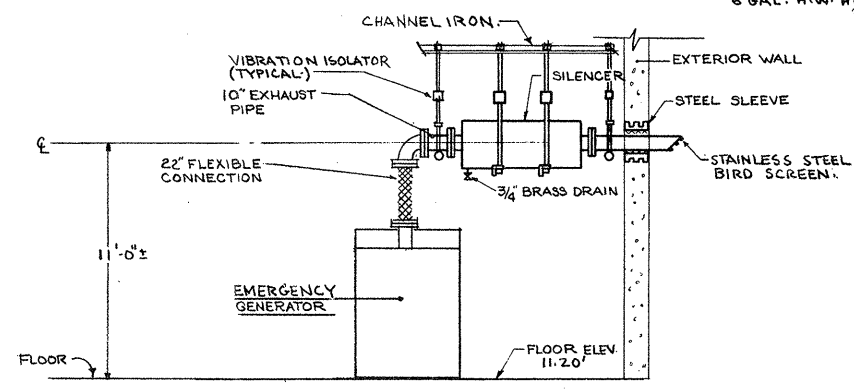
APPROVED: *Charles A. Long*
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 CHEMICALS HANDLING BUILDING
**EQUIPMENT AND PIPING
 CHLORINATION AND LIME SLAKING
 SCHEMATICS**

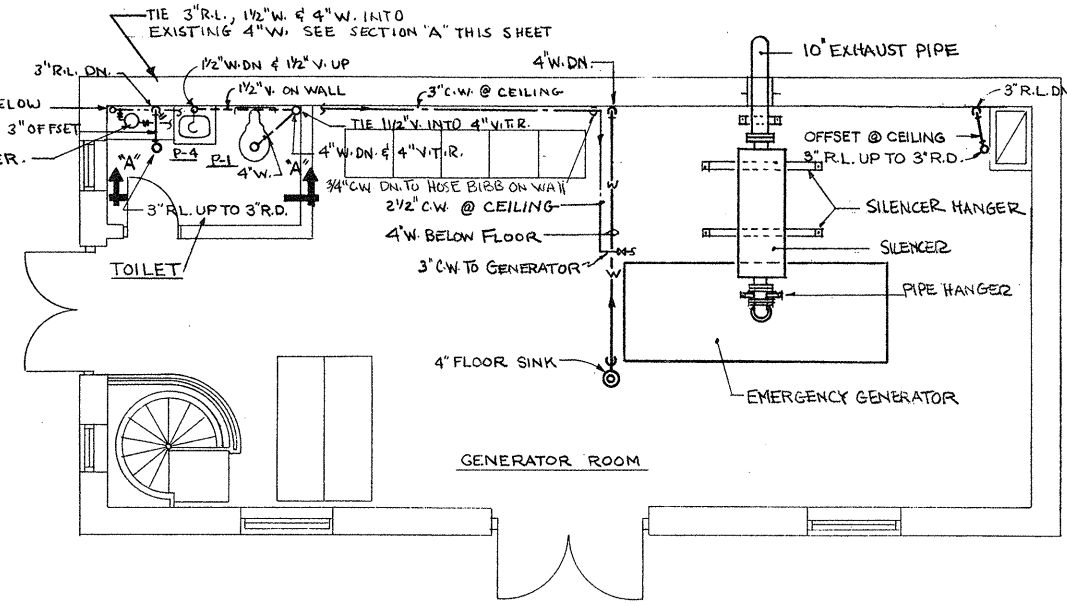
SCALE:
 NO. SCALE
 CEM NO. 1981
 DRAWING NO.
EP-36



SEE "DETAIL OF WATER PIPING AT DIESEL GENERATOR" ON DWG. P-10.
EMERGENCY GENERATOR - PLAN
 NO SCALE

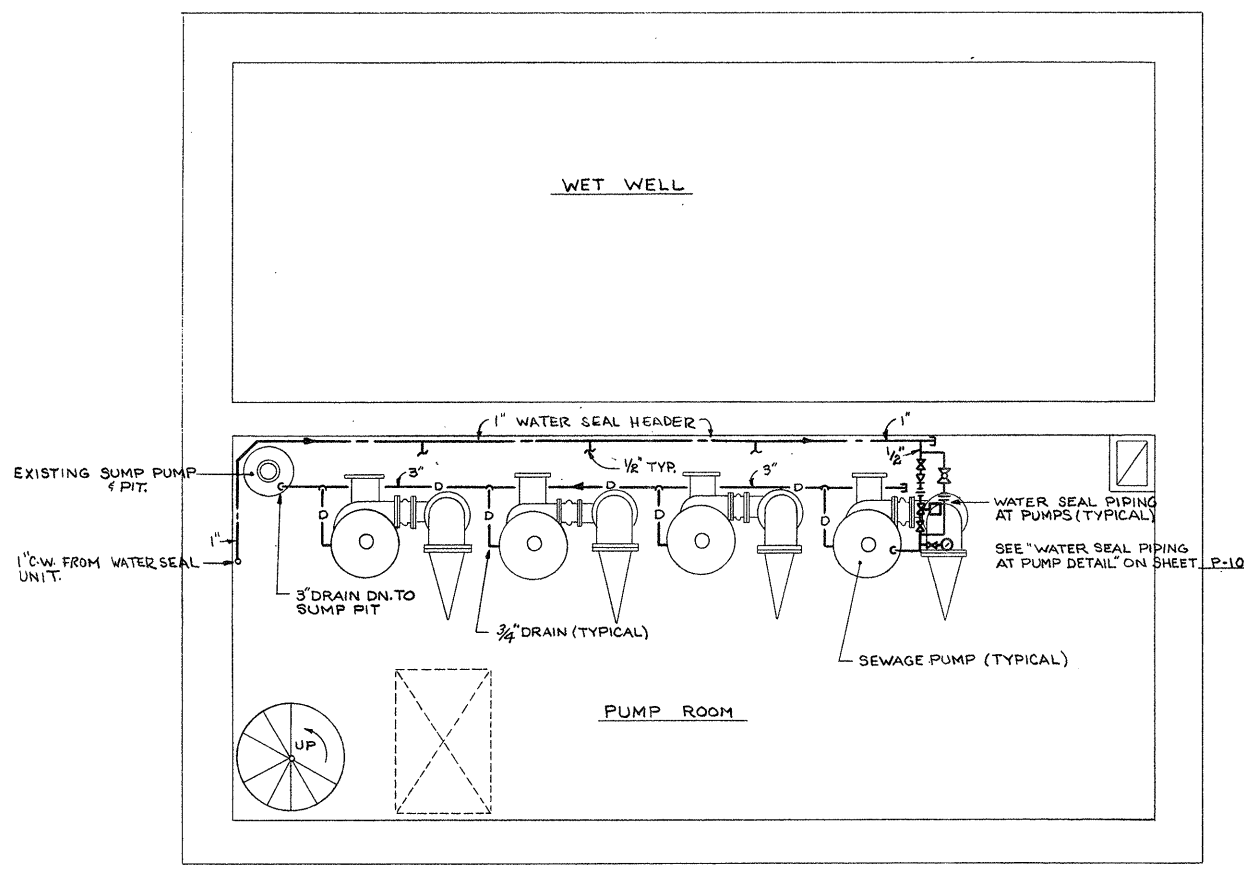


EMERGENCY GENERATOR - ELEVATION
 NO SCALE

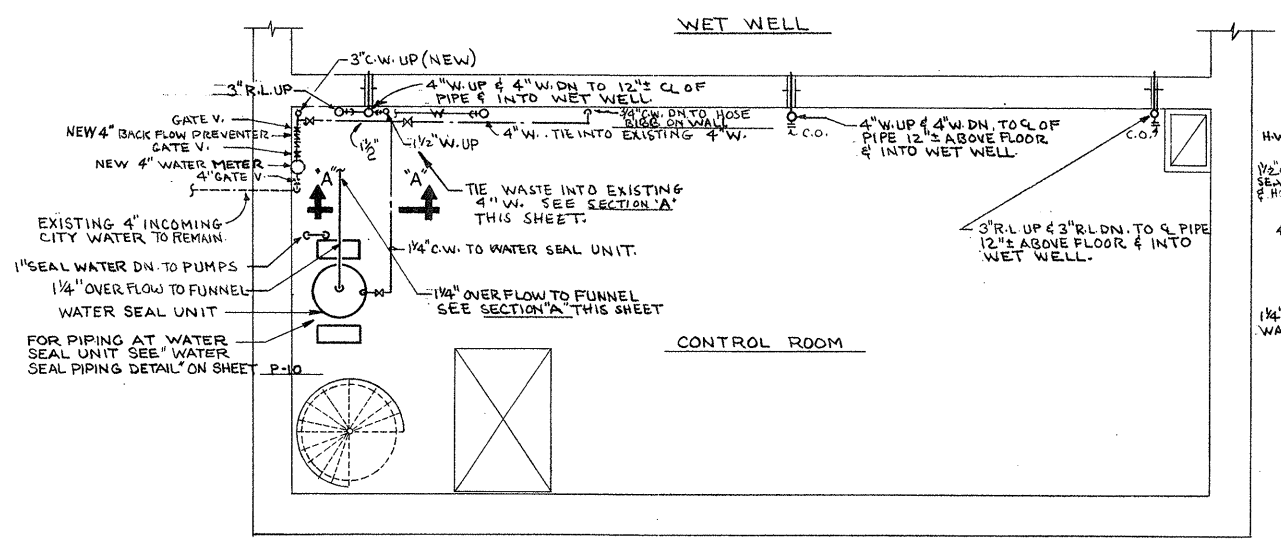


PLAN AT ELEV. 11.20'
MODIFIED RAW SEWAGE PUMPING STATION
 SCALE 1/4" = 1'-0"

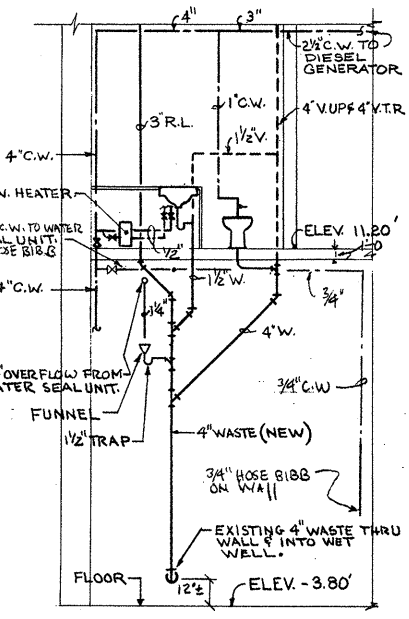
NOTE
 EXHAUST PIPING SIZES SHALL CONFORM TO THE APPROVED DIESEL ENGINE MANUFACTURE.
 FOR DIESEL EXHAUST WALL PENETRATION DETAIL AND HANGER DETAILS SEE DWG. P-10.



PLAN AT ELEV. -19.30'
MODIFIED RAW SEWAGE PUMPING STATION
 SCALE 1/4" = 1'-0"



PLAN AT ELEV. -380'
MODIFIED RAW SEWAGE PUMPING STATION
 SCALE 1/4" = 1'-0"



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

NOTE: ALL PIPING ENTERING & LEAVING BUILDING SHALL HAVE A 4 FT. MIN. COVER.

ATTENTION
 THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

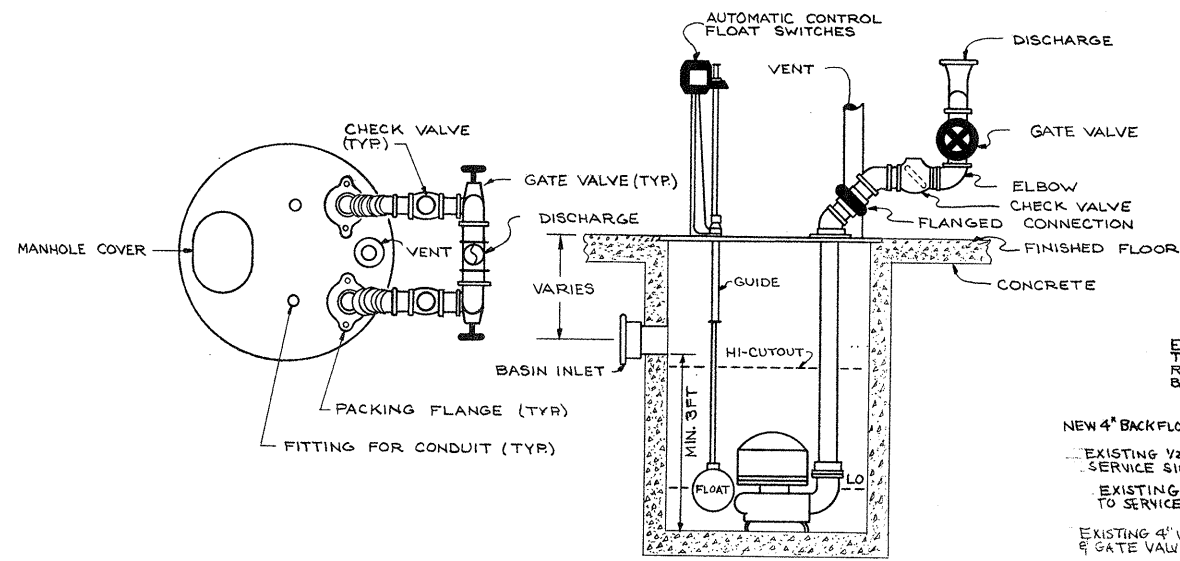


DRAWN: R. CARDARELLI DESIGNED: D. MARSOLI
 CHECKED: D. MARSOLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Maguire
 CITY OF TAUNTON

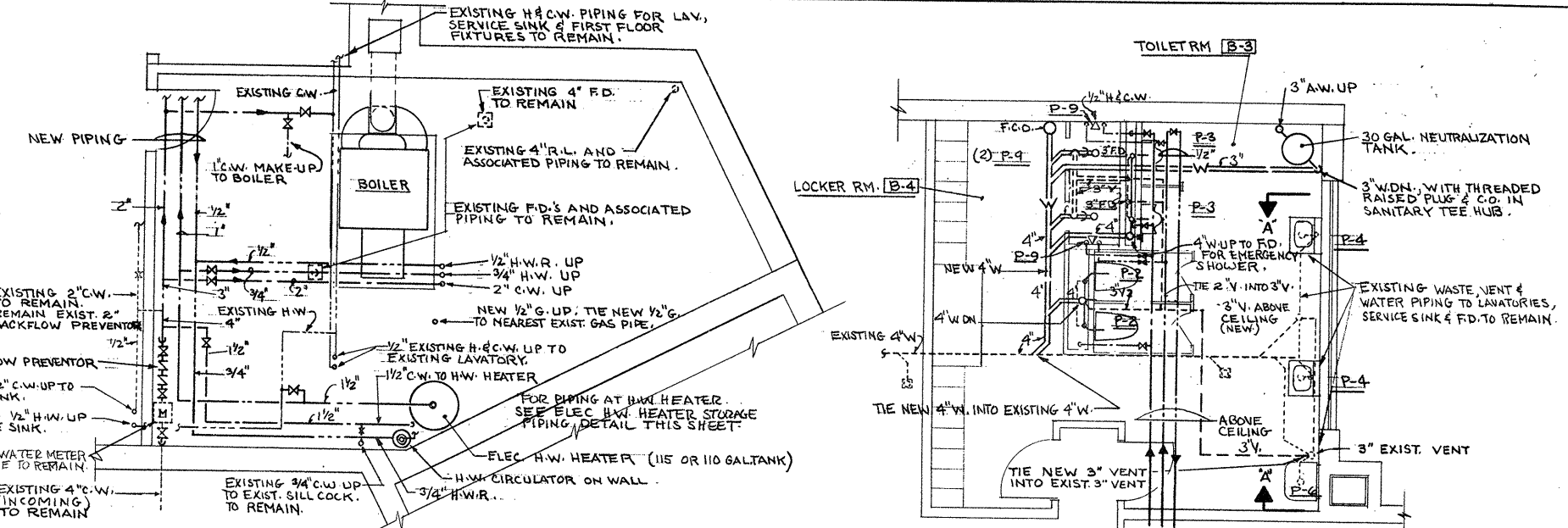
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 MODIFIED RAW SEWAGE PUMPING STATION
PLUMBING FLOOR PLANS

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
P-1



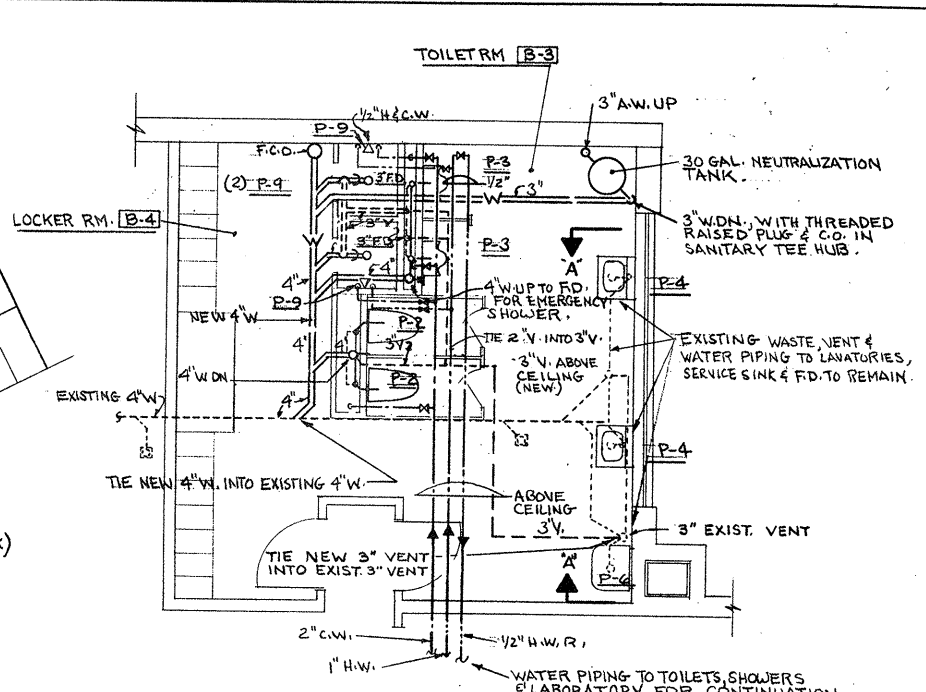
TYPICAL DUPLEX SEWAGE EJECTOR PUMP DETAIL

NO SCALE



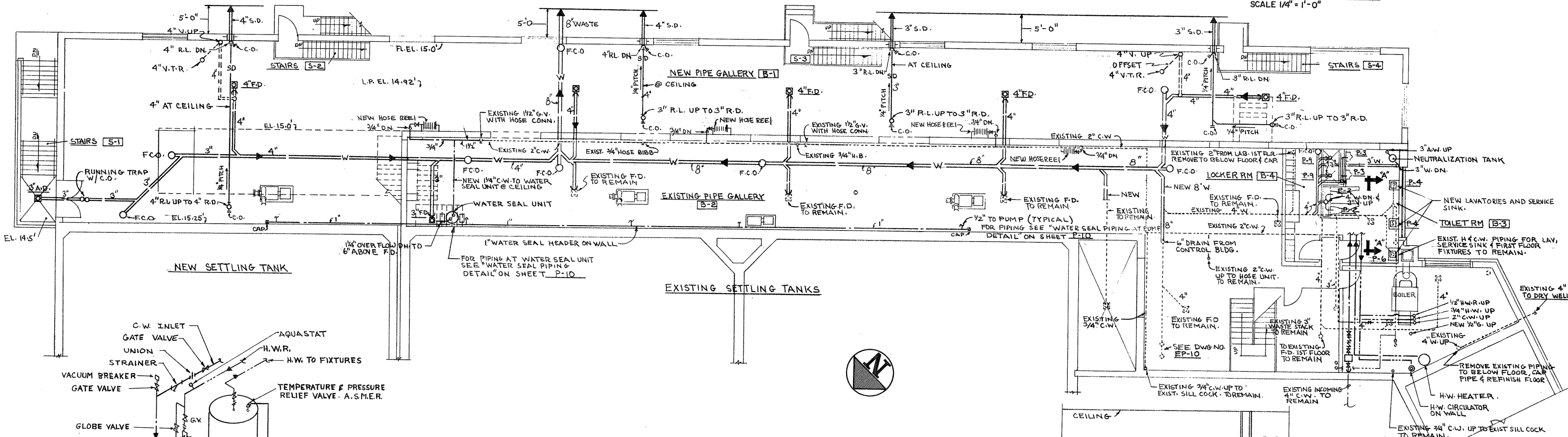
ENLARGED BOILER ROOM PLAN

SCALE 1/4" = 1'-0"



ENLARGED TOILET AREA

SCALE 1/4" = 1'-0"

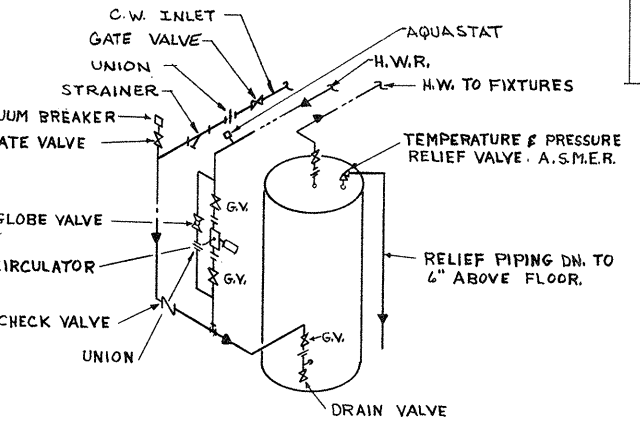


PIPE GALLERY FLOOR PLAN & OPERATIONS BUILDING BASEMENT PLAN

SCALE 1/8" = 1'-0"

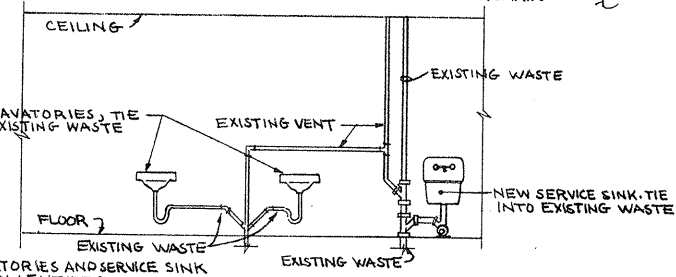
NOTE: ALL PIPING ENTERING & LEAVING BUILDING SHALL HAVE A 4 FT. MIN. COVER.

NOTE: REMOVE EXISTING LAVATORIES AND SERVICE SINK ONLY. REPLACE WITH NEW FIXTURES.



ELEC. HOT WATER STORAGE HEATER PIPING

NO SCALE



SECTION A-A

NO SCALE

ATTENTION THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

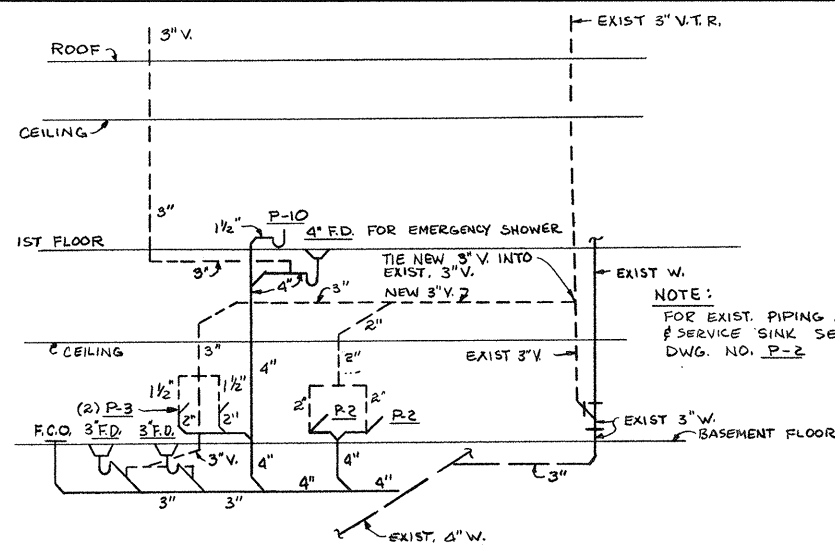


DRAWN: R. CARDARELLI DESIGNED: D. MARSOLI
 CHECKED: D. MARSOLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS - ENGINEERS - PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

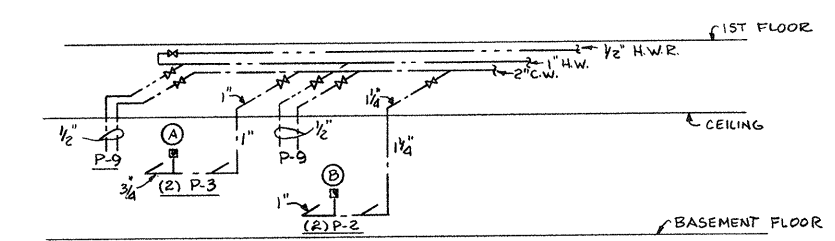
APPROVED
Charles A. Maguire
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING WITH PIPE GALLERY
 PLUMBING
 PLAN AT ELEVATION 15.0'

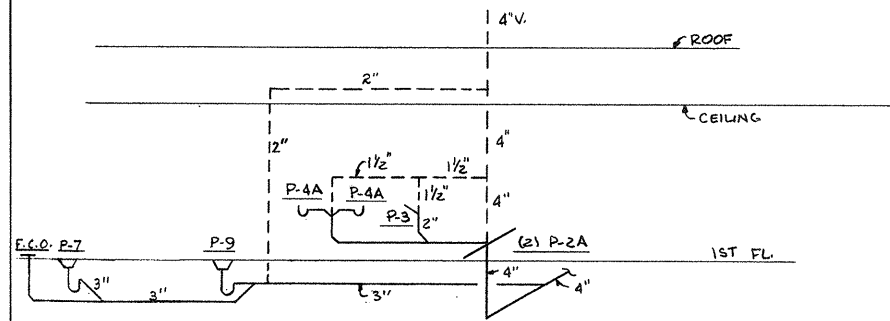
SCALE AS NOTED
 CEM NO. 1981
 DRAWING NO. **P-2**



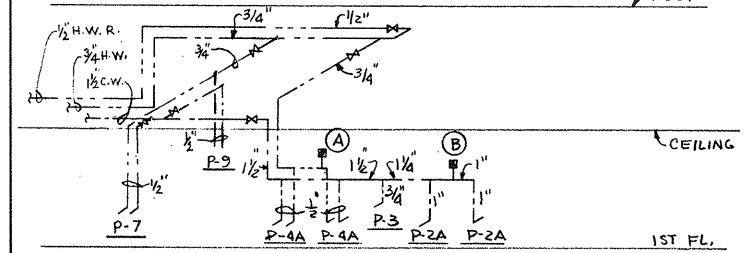
TOILET RM. B-3 & LOCKER RM. B-4 OPERATIONS BLDG.
WASTE & VENT RISER DIAGRAM
 NO SCALE



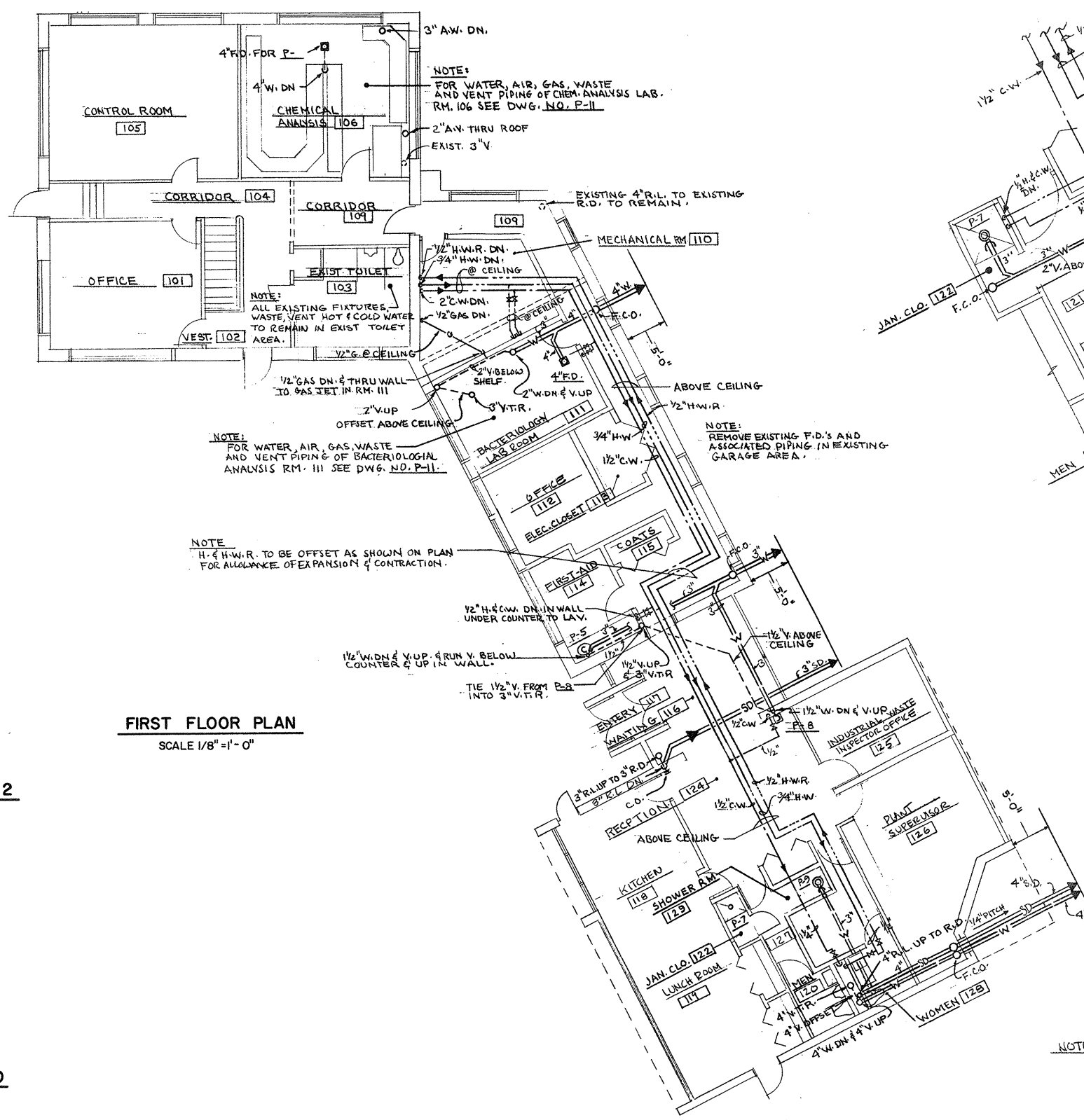
TOILET RM. B-3 & LOCKER RM. B-4 OPERATIONS BLDG.
HOT & COLD WATER RISER DIAGRAM
 NO SCALE



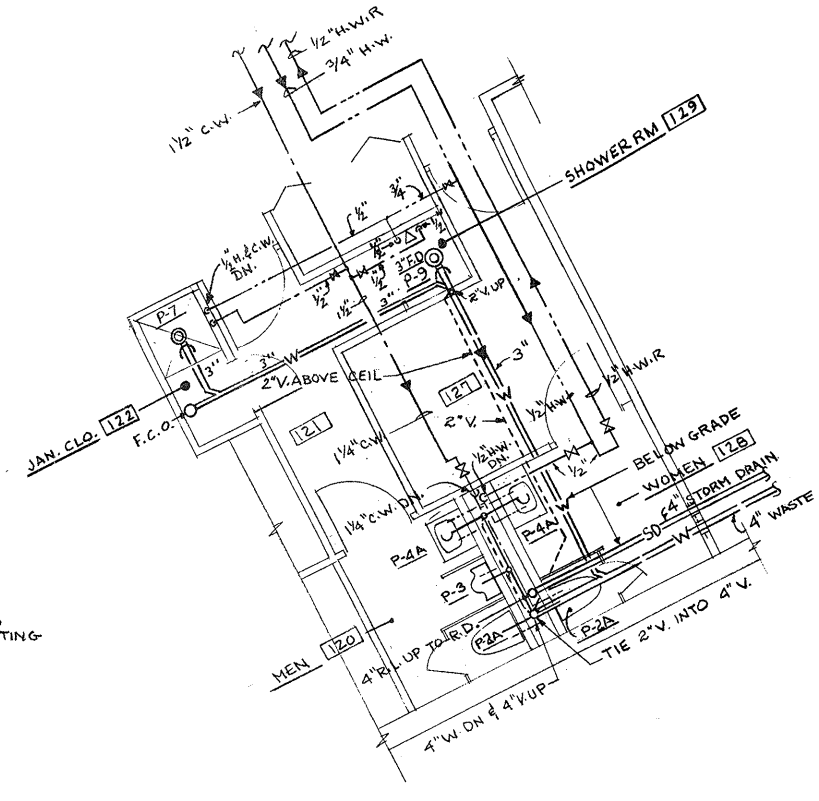
MEN'S TOILET 120- WOMEN'S TOILET 128- JANITOR 122
OPERATIONS BUILDING
WASTE & VENT RISER DIAGRAM
 NO SCALE



MEN'S TOILET 120- WOMEN'S TOILET 128- JANITOR 120
OPERATIONS BUILDING
HOT & COLD WATER RISER DIAGRAM
 NO SCALE



FIRST FLOOR PLAN
 SCALE 1/8" = 1'-0"



ENLARGED TOILET AREA
 SCALE 1/4" = 1'-0"

ATTENTION
 THESE DRAWINGS HAVE
 BEEN REDUCED

NOTE: ALL PIPING ENTERING & LEAVING BUILDING SHALL HAVE A 4FT. MIN. COVER.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

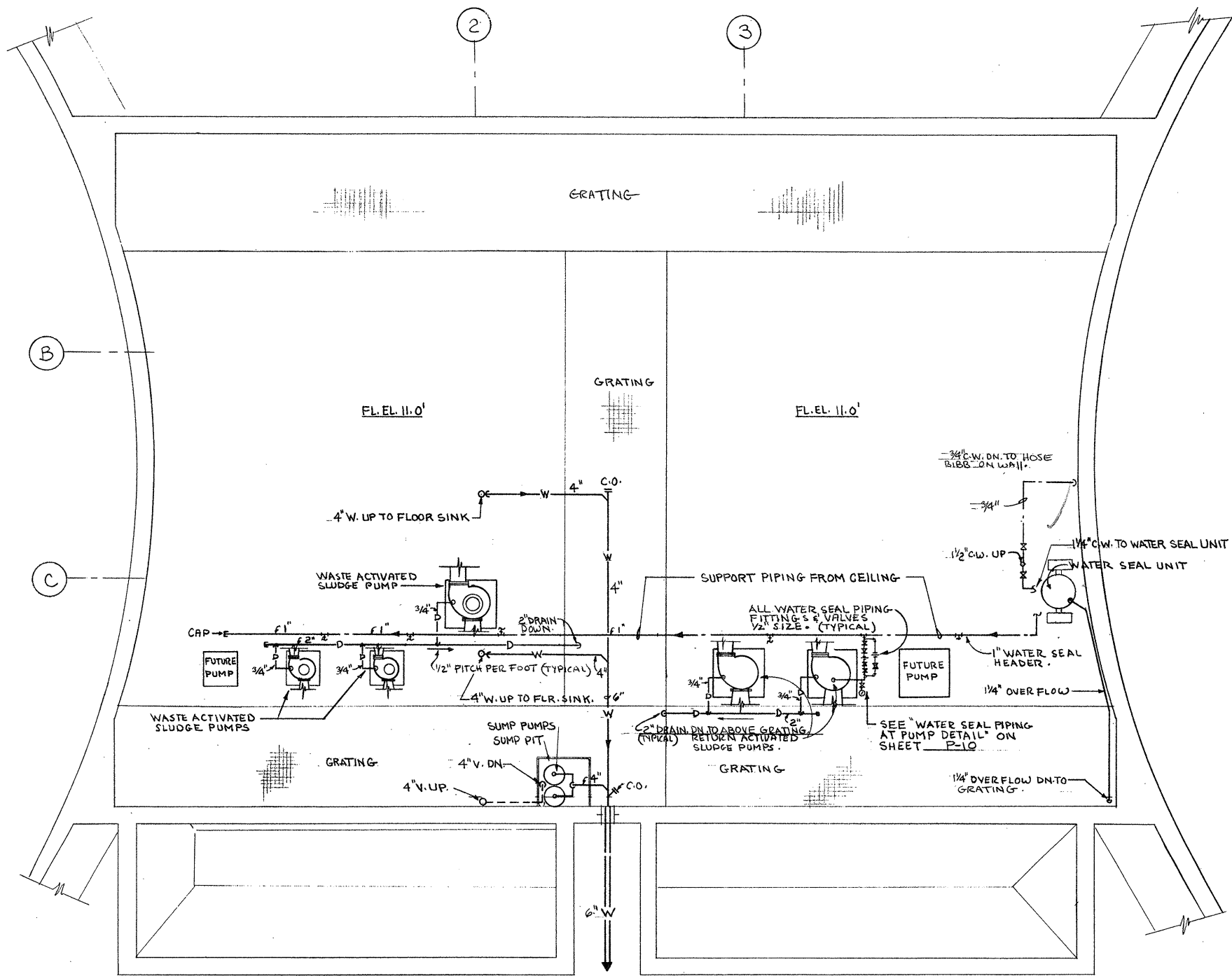


CE MAGUIRE, INC.
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 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Maguire
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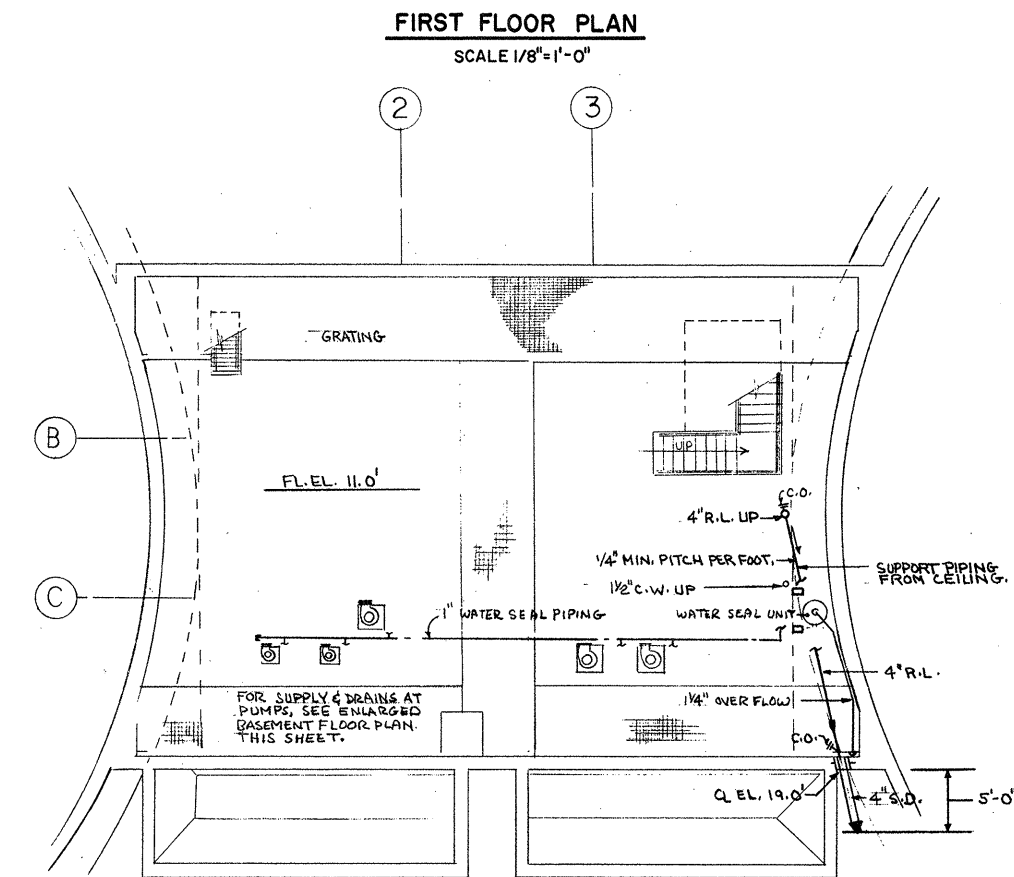
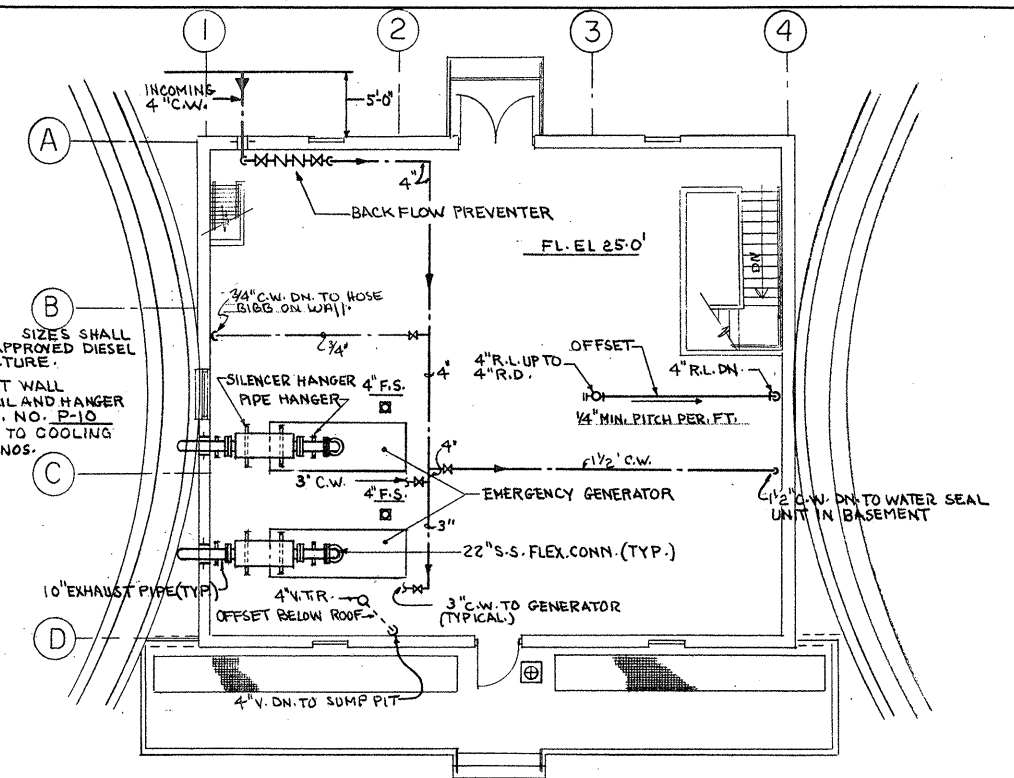
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING WITH PIPE GALLERY
PLUMBING
 FIRST FLOOR PLAN AT ELEV. 30.0'

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
P-3



NOTE:
ALL PIPING ENTERING AND LEAVING BUILDING SHALL HAVE A 4FT. MIN. COVER.

NOTE:
EXHAUST PIPING SIZES SHALL CONFORM TO THE APPROVED DIESEL ENGINE MANUFACTURE.
FOR DIESEL EXHAUST WALL PENETRATION DETAIL AND HANGER DETAILS SEE DWG. NO. P-10
FOR WATER PIPING TO COOLING SYSTEM SEE DWG. NOS. P-1 & P-10



ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



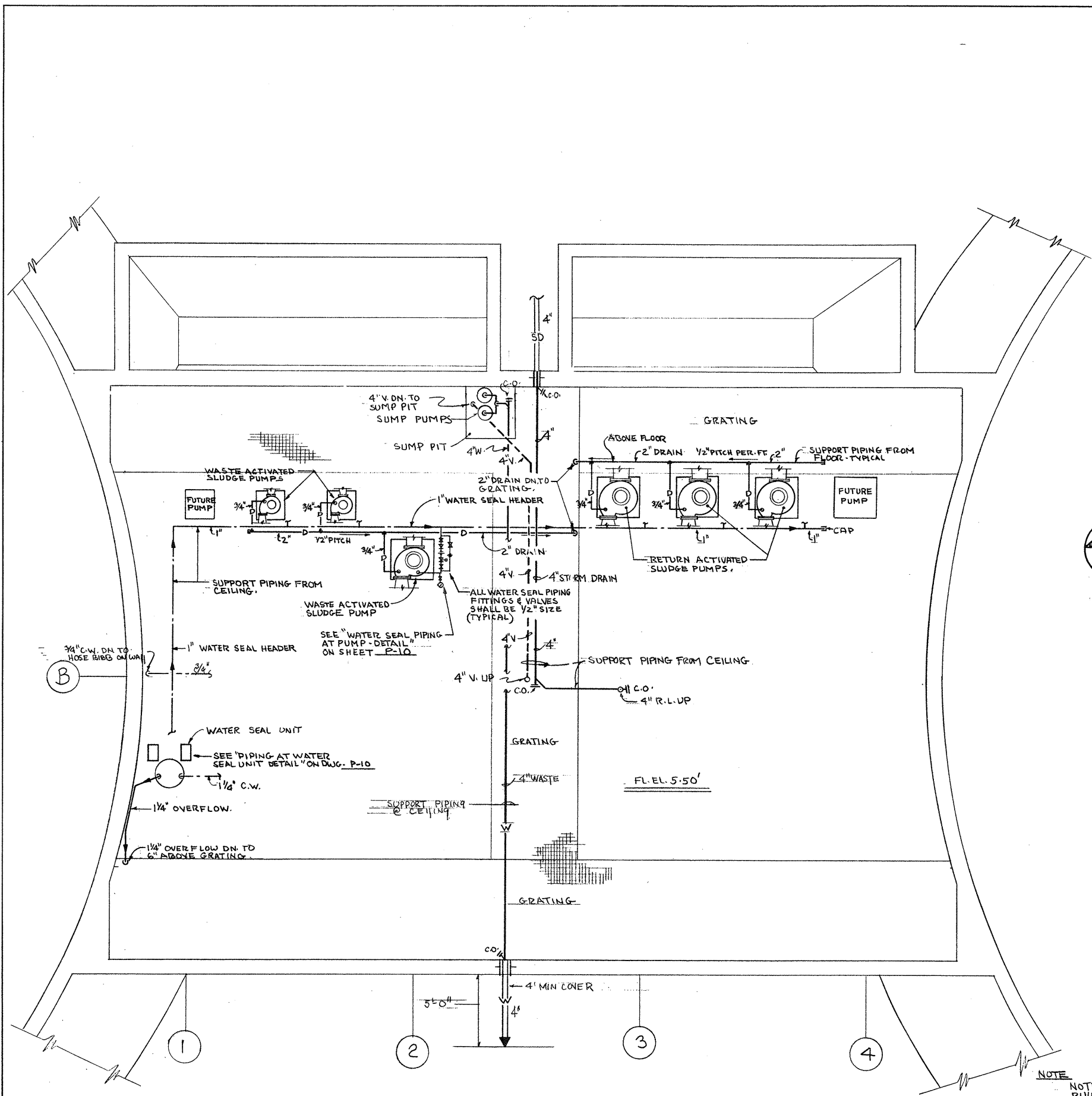
DRAWN: R. CARDARELLI DESIGNED: D. MARSOLI
CHECKED: D. MARSOLI APPROVED: W. HUNDLEY
DATE: JULY, 1974

CE MAGUIRE, INC.
ARCHITECTS • ENGINEERS • PLANNERS
PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Long
CITY OF TAUNTON

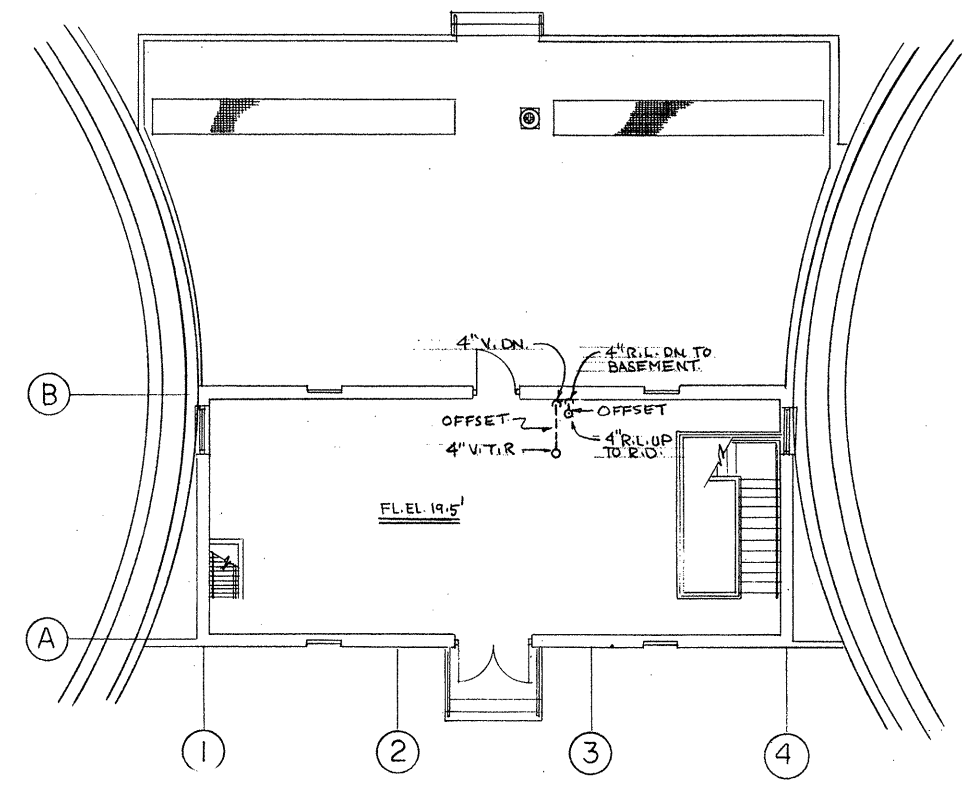
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
SLUDGE PUMPING STATION NO. 1
PLUMBING FLOOR PLANS

SCALE AS NOTED
CEM NO. 1981
DRAWING NO. **P-4**

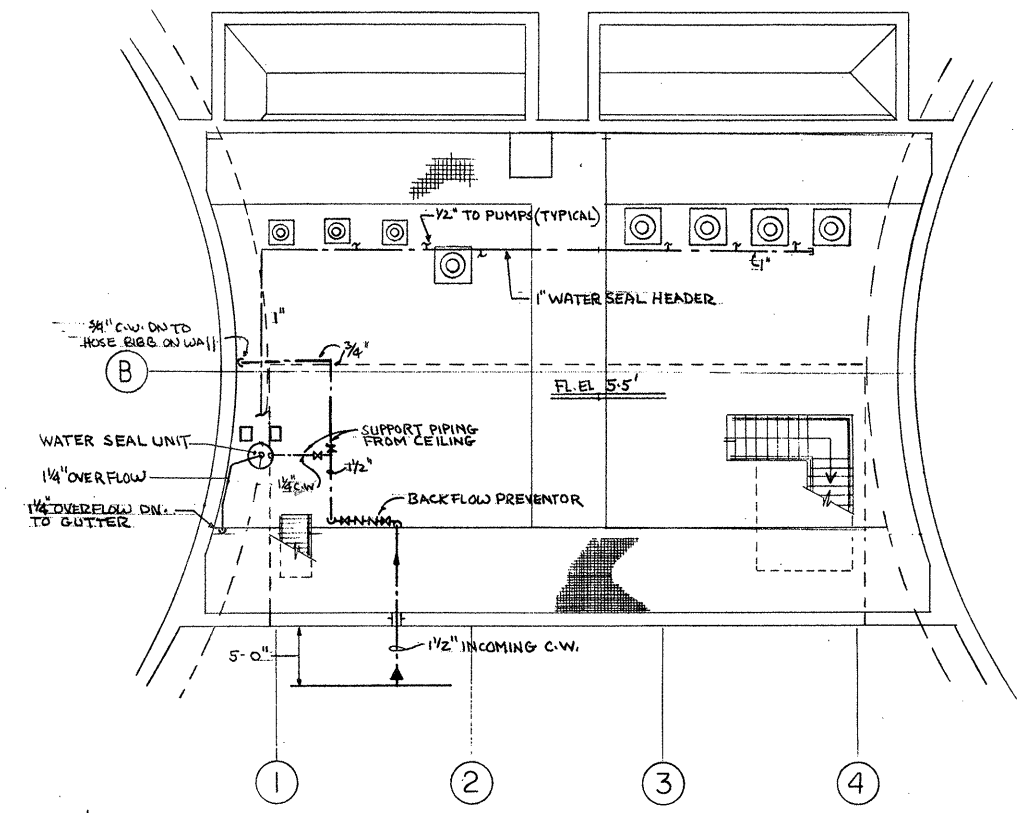


ENLARGED BASEMENT FLOOR PLAN
SCALE 1/4" = 1'-0"

NOTE
NOTE ALL PIPING ENTERING & LEAVING BUILDING SHALL HAVE A 4 FT. MIN. COVER.



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



BASEMENT FLOOR PLAN
SCALE 1/8" = 1'-0"

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: R. CARDARELLI DESIGNED: D. MARSOLI
 CHECKED: D. MARSOLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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 ARCHITECTS • ENGINEERS • PLANNERS
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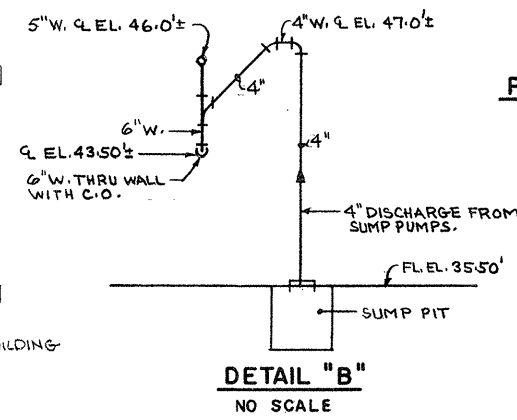
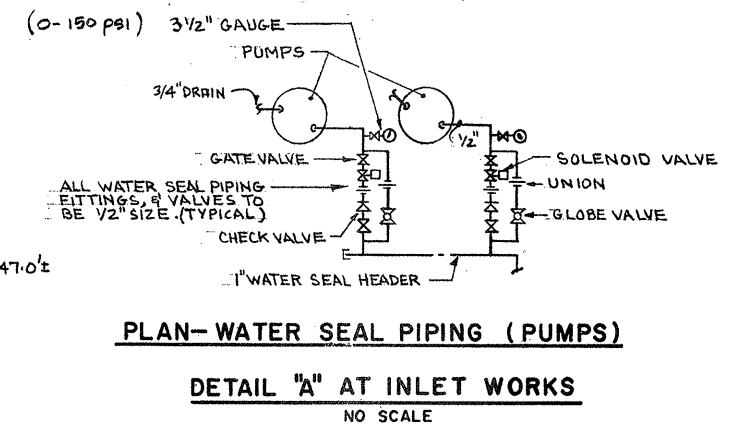
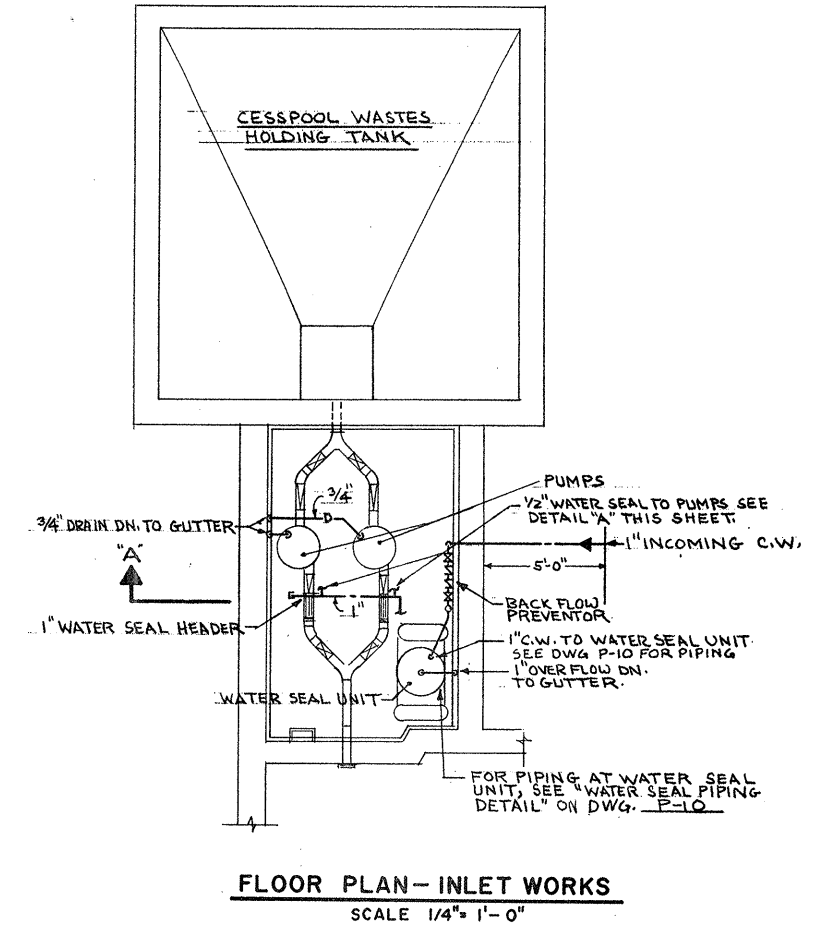
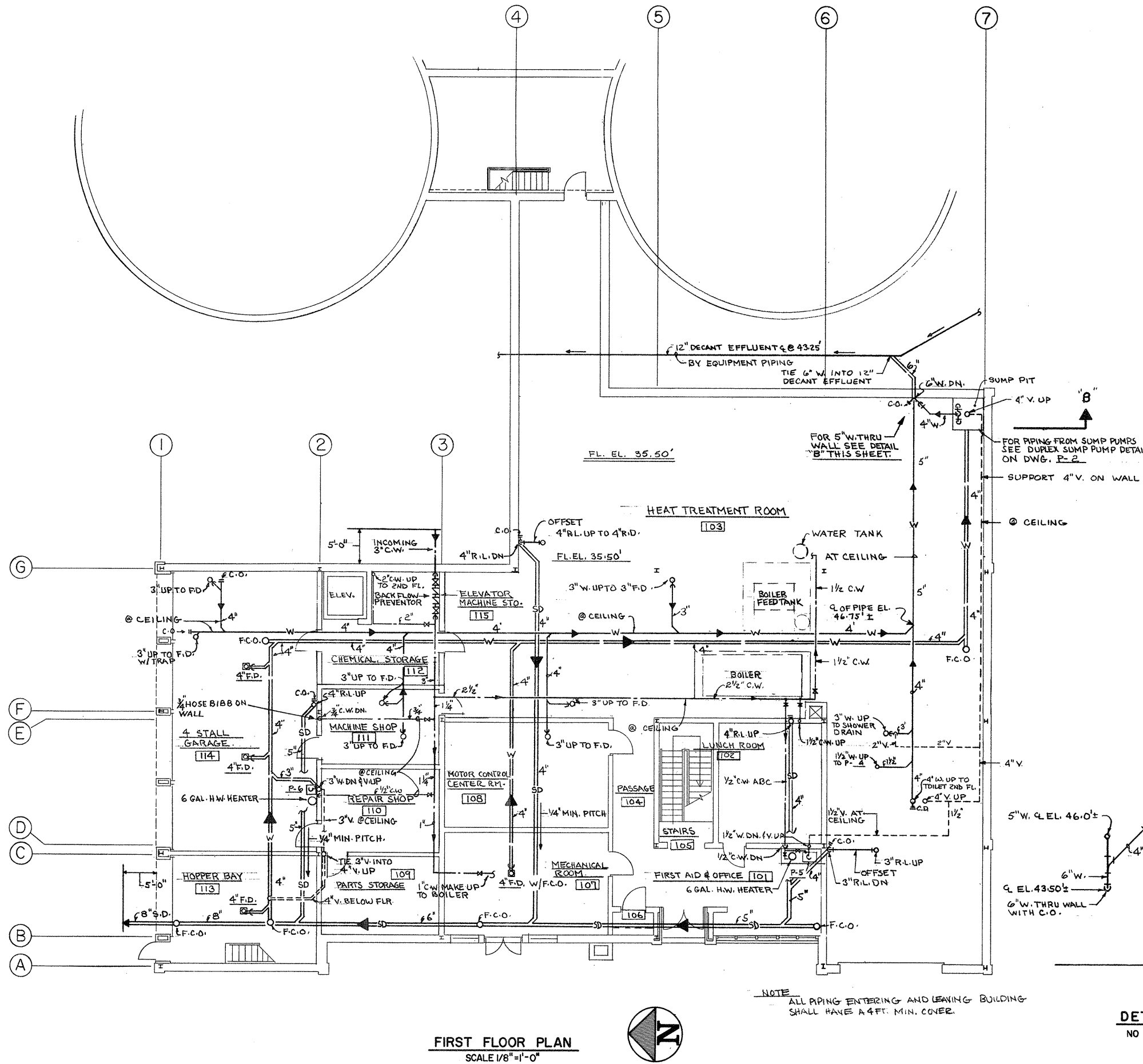
APPROVED
Charles A. King
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

SLUDGE PUMPING STATION NO. 2
PLUMBING
FLOOR PLANS

SCALE AS NOTED
 CEM NO. 1981
 DRAWING NO.
P-5

950



ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



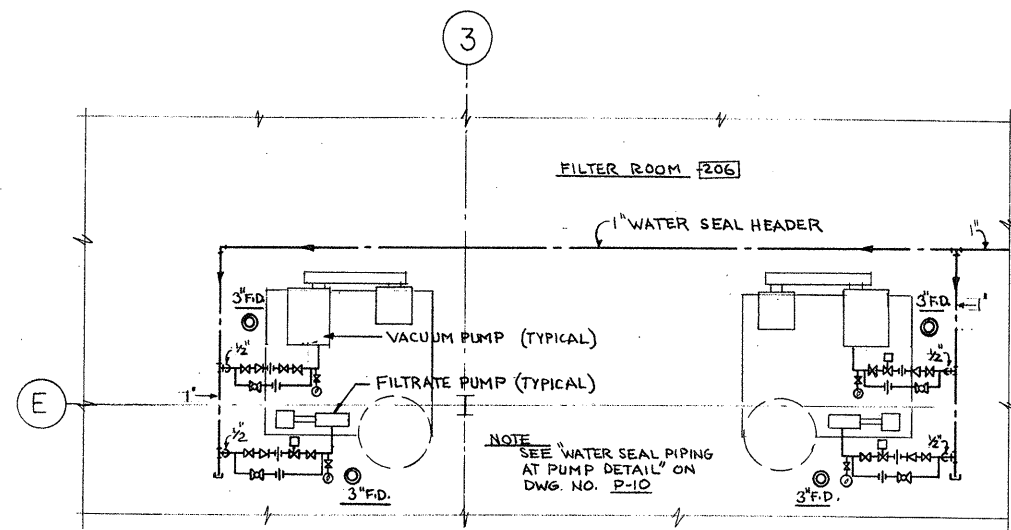
DRAWN: R. CARDARELLI DESIGNED: D. MARSOLI
 CHECKED: D. MARSOLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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 ARCHITECTS • ENGINEERS • PLANNERS
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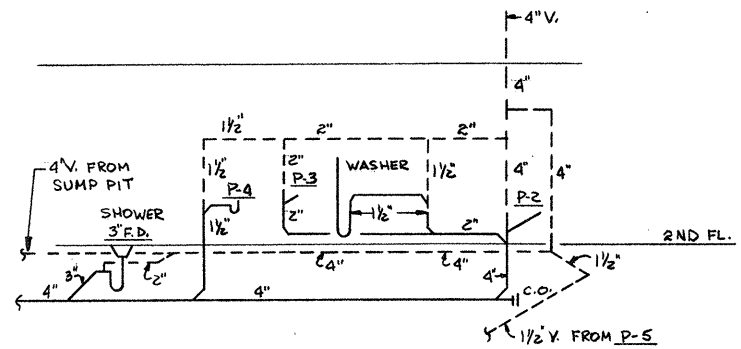
APPROVED
Charles G. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
 PLUMBING
 FIRST FLOOR PLAN

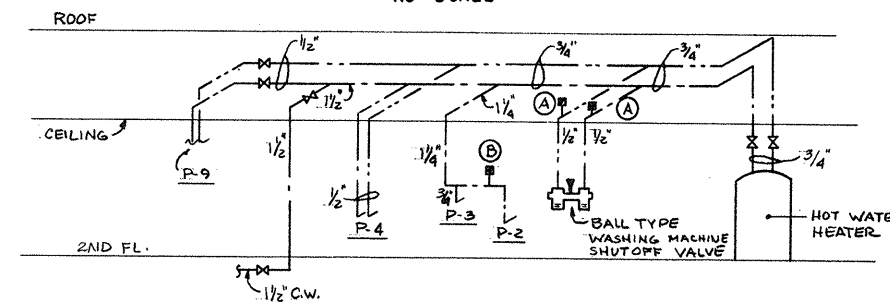
SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
P-6



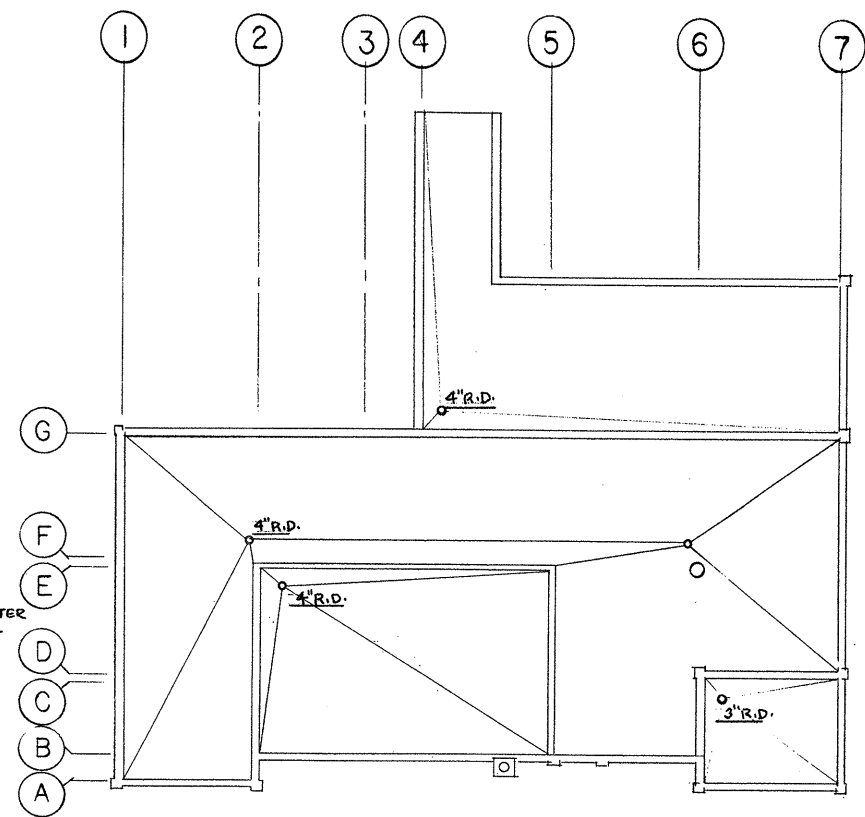
ENLARGED PUMP AREA PLAN
SCALE 1/4" = 1'-0"



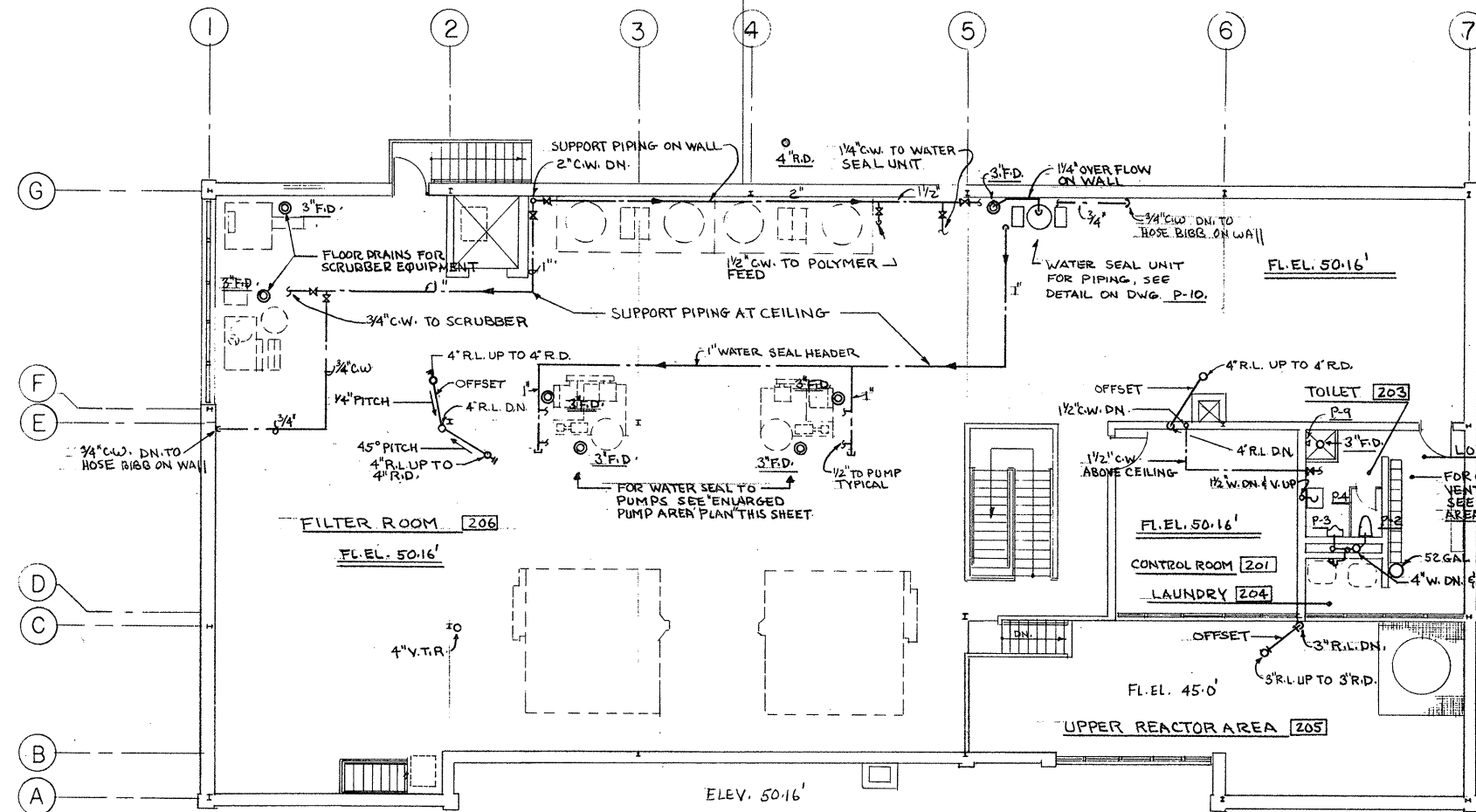
**SLUDGE HANDLING BLDG- TOILET 203
WASTE & VENT RISER DIAGRAM**
NO SCALE



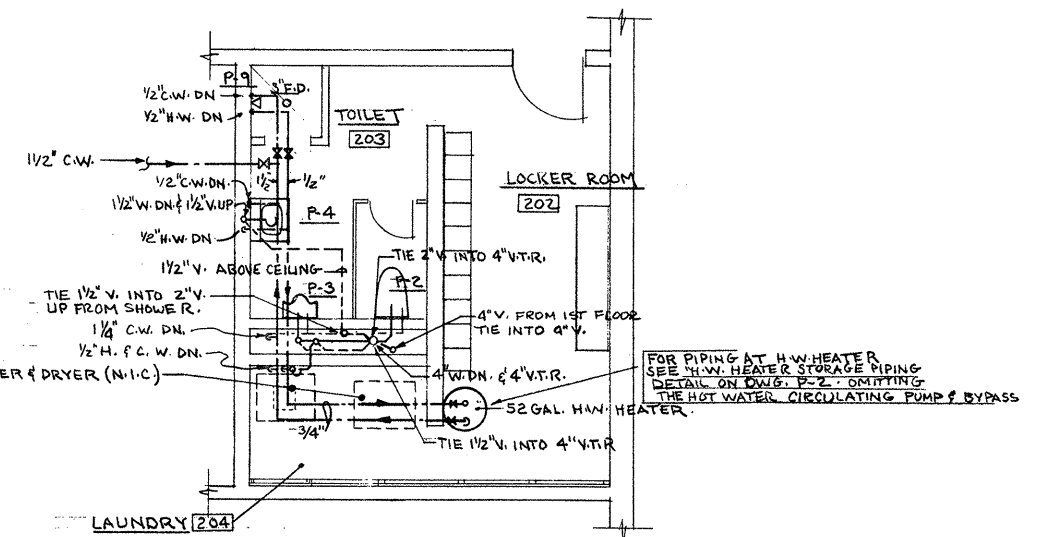
**SLUDGE HANDLING BLDG- TOILET 203
HOT & COLD WATER RISER DIAGRAM**
NO SCALE



ROOF PLAN
SCALE 1/16" = 1'-0"



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"



ENLARGED TOILET AREA
SCALE 1/4" = 1'-0"

ATTENTION
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BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

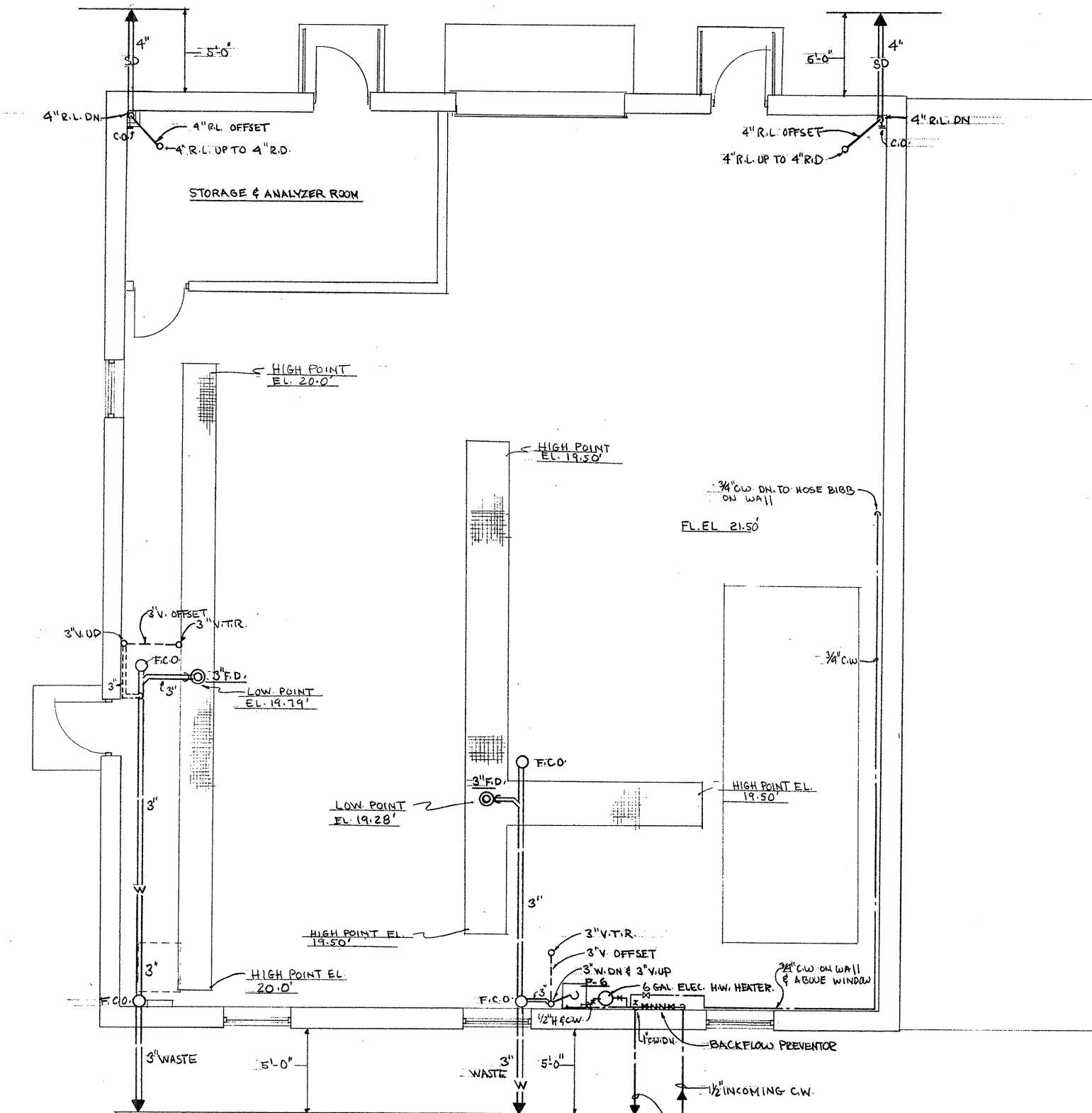


DRAWN: R. CARDARELLI DESIGNED: D. MARSOLI
 CHECKED: D. MARSOLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Maguire
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
PLUMBING
 SECOND FLOOR PLAN

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
P-7



FLOOR PLAN

SCALE 1/4" = 1'-0"

NOTE: ALL PIPING ENTERING AND LEAVING BUILDING SHALL HAVE A 4 FT. MIN. COVER

1" C.W. MAKE-UP FOR COOLING TOWER FOR CONTINUATION SEE DWG NO EP-31

ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: R. CARDARELLI DESIGNED: D. MARSOLI
 CHECKED: D. MARSOLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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APPROVED
Charles A. Kelly
 CITY OF TAUNTON

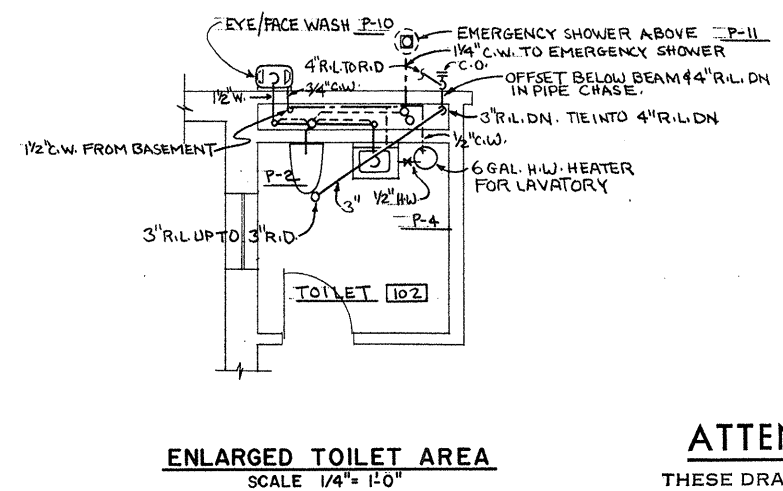
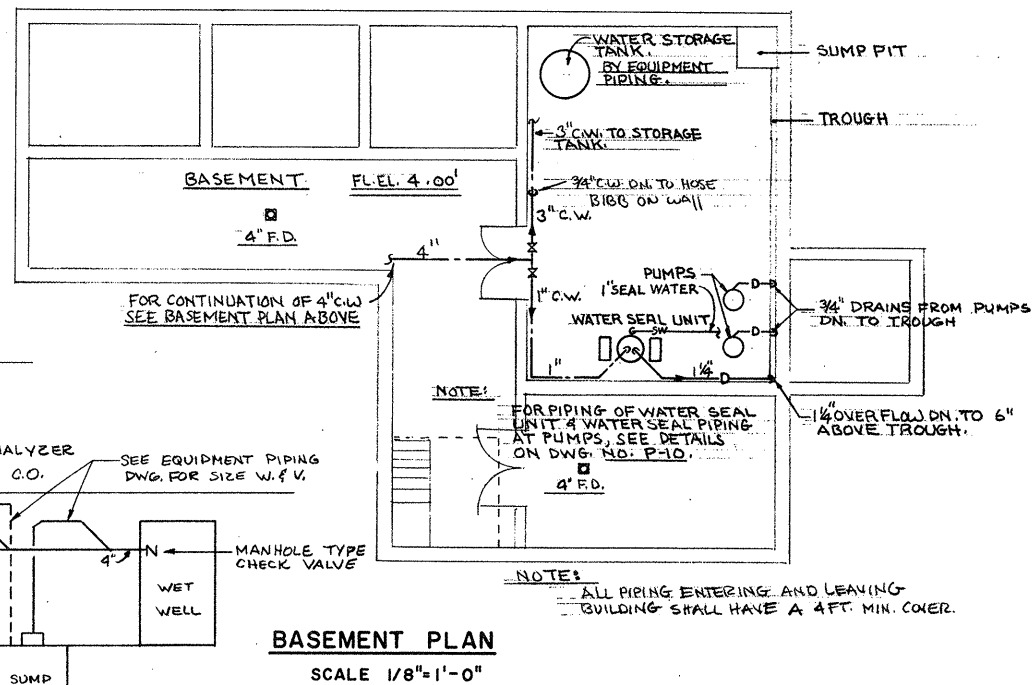
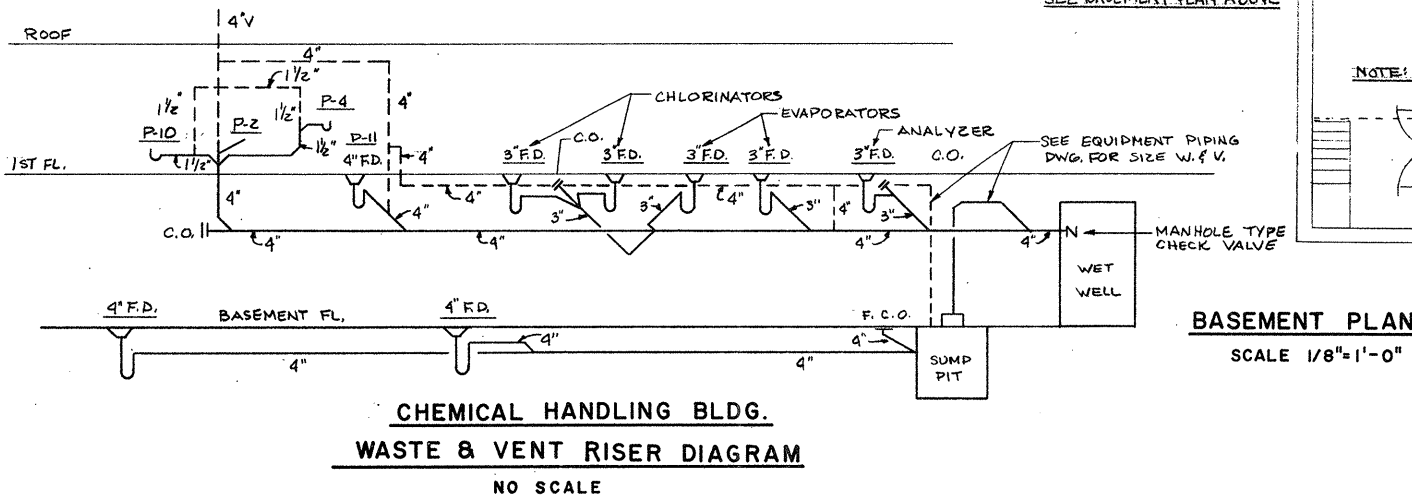
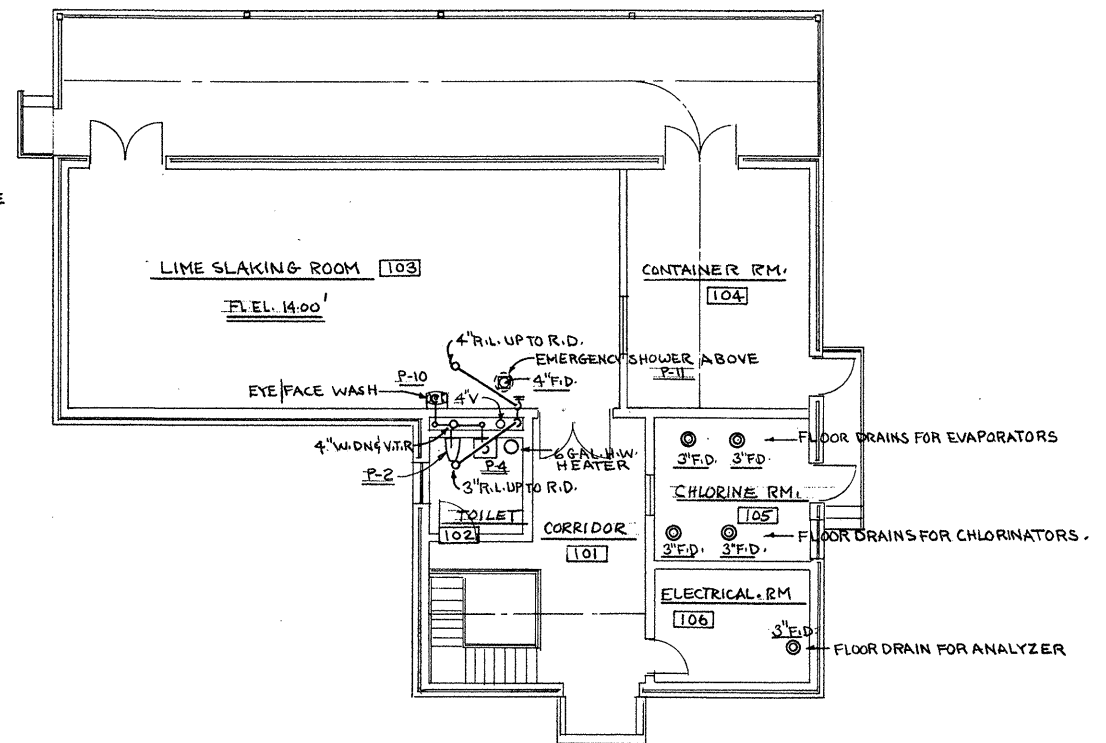
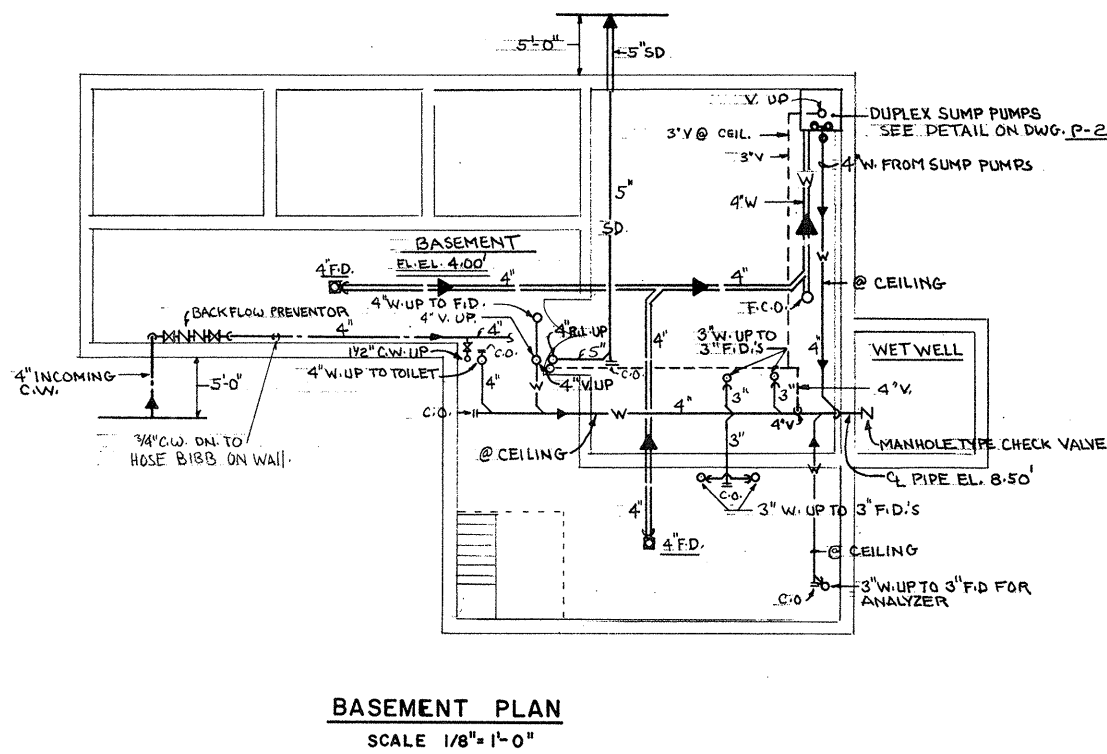
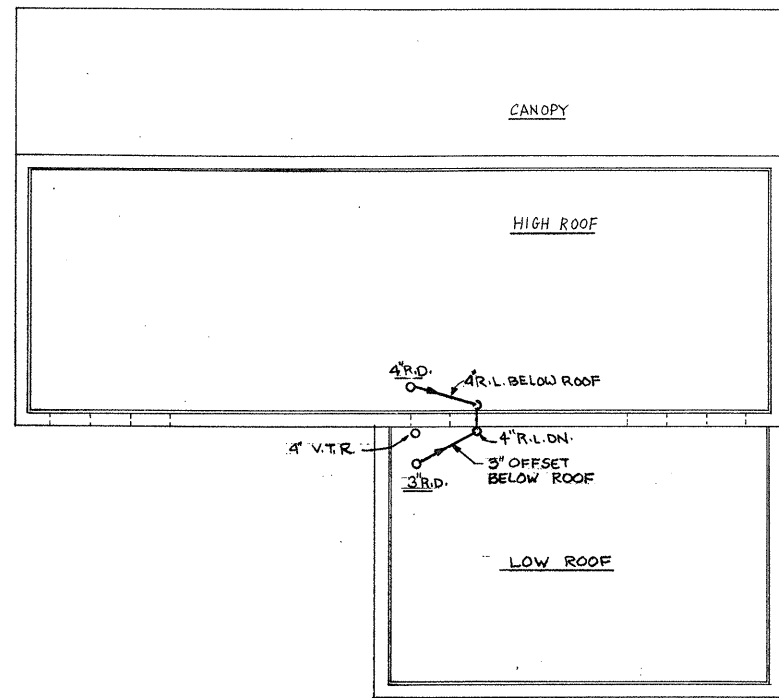
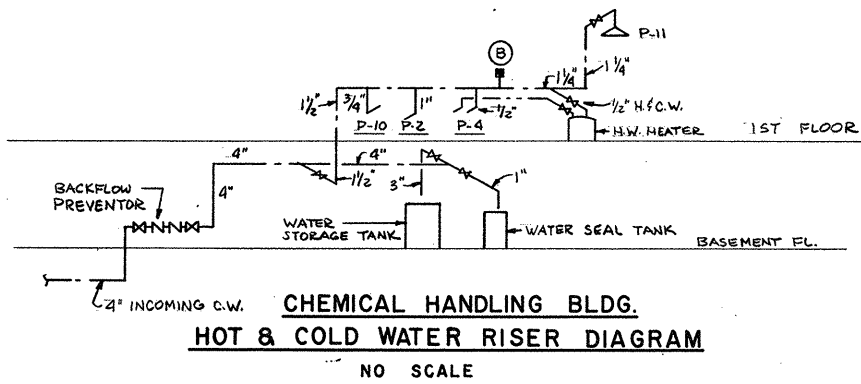
CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OXYGEN GENERATION BUILDING
 PLUMBING
 FLOOR PLAN

SCALE
 AS NOTED

CEM NO. 1981

DRAWING NO.
P-8



ATTENTION
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BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: R. CARDARELLI DESIGNED: D. MARSOLI
 CHECKED: D. MARSOLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
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 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Maguire
 CITY OF TAUNTON

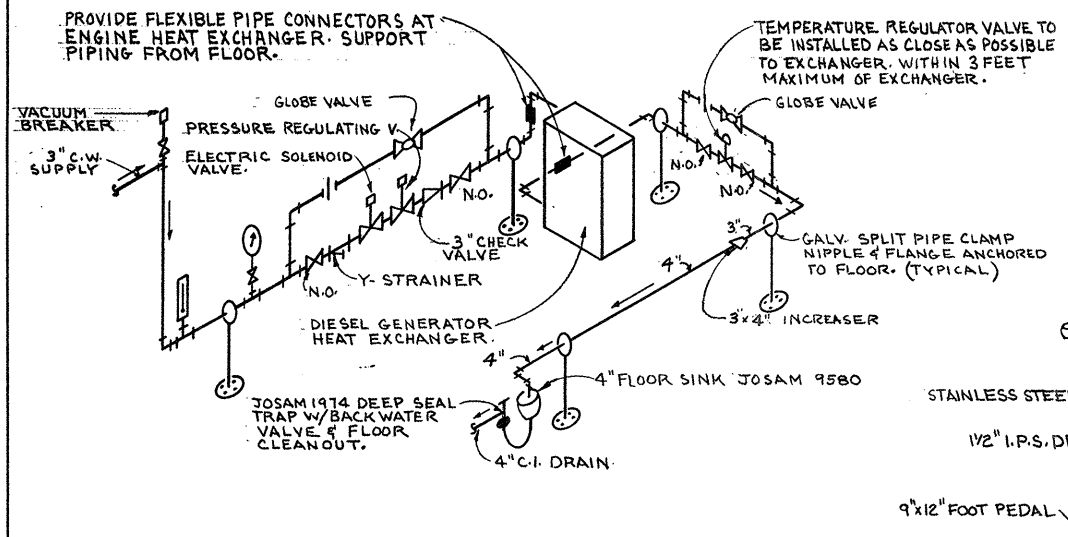
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

CHEMICAL HANDLING BUILDING
PLUMBING FLOOR PLANS

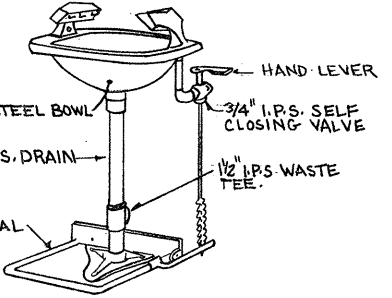
SCALE
AS NOTED

CEM NO. 1981

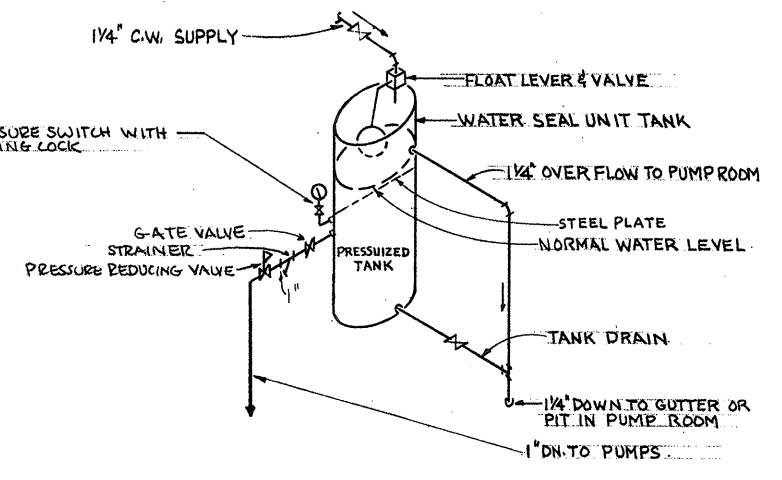
DRAWING NO.
P-9



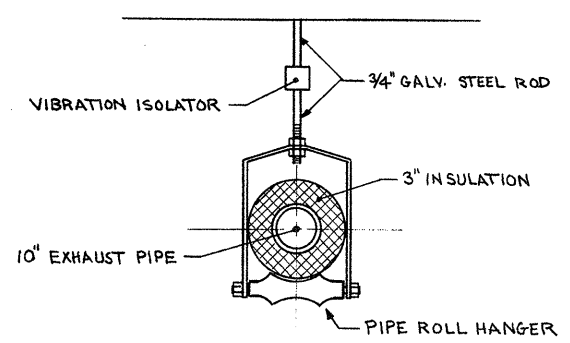
DETAIL OF WATER PIPING AT DIESEL GENERATOR
NO SCALE



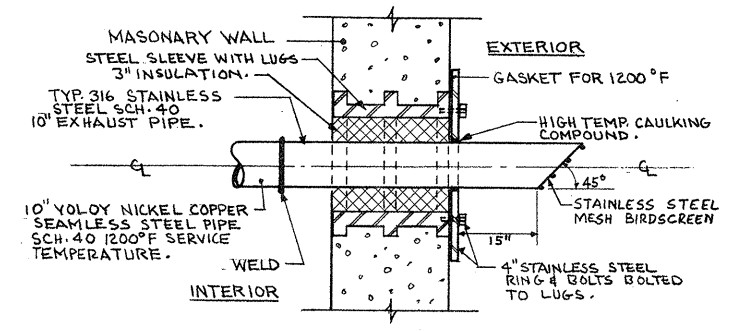
EYE / FACE WASH
NO SCALE



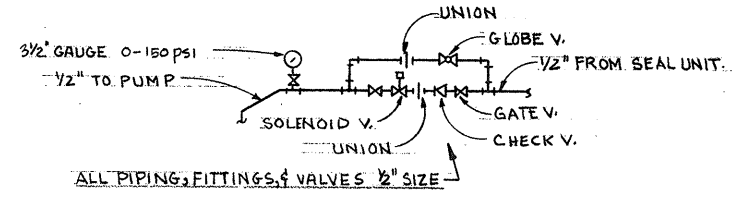
WATER SEAL PIPING DETAIL
NO SCALE



EXHAUST PIPES HANGER DETAIL
NO SCALE

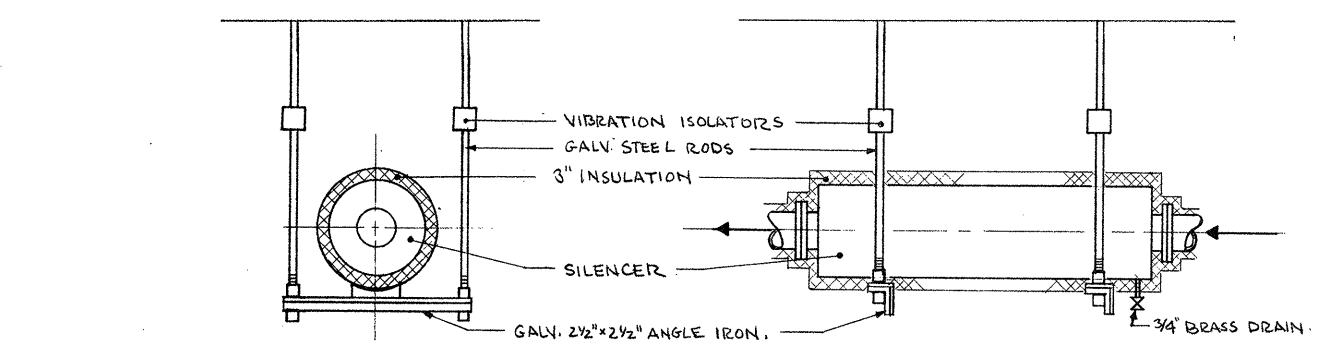


DIESEL EXHAUST WALL SLEEVE DETAIL
NO SCALE

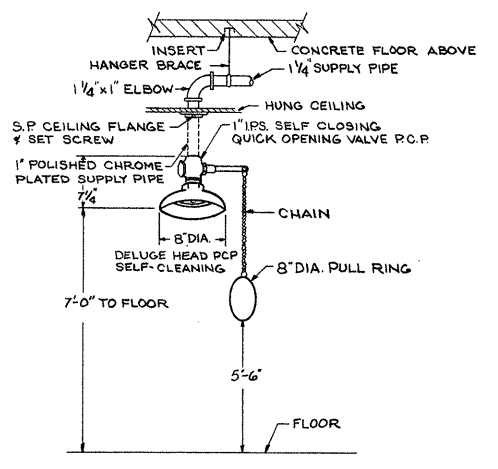


WATER SEAL PIPING AT PUMP DETAIL
NO SCALE

LEGEND		
SYMBOL	DESCRIPTION	ABBR.
—W—	SANITARY WASTE BELOW GRADE	W.
—W—	SANITARY WASTE	W.
—W—	SANITARY WASTE BELOW FLOOR	W.
—AW—	ACID WASTE	A.W.
—SD—	STORM DRAIN BELOW GRADE	S.D.
—SD—	STORM DRAIN	S.D.
—V—	VENT BELOW GRADE	V.
—V—	VENT	V.
—AV—	ACID VENT	A.V.
—C—	COLD WATER	C.W.
—H—	HOT WATER	H.W.
—H—	HOT WATER RETURN	H.W.R.
—A—	AIR	A
—G—	GAS	G
—V—	VACUUM	V.C.
—V—	CHECK VALVE	C.V.
—V—	GATE VALVE	G.V.
—V—	LOCK SHIELD GATE VALVE	L.G.V.
—V—	GLOBE VALVE	GL.V.
—V—	TRAP	
—V—	TRAP BELOW FLOOR	
—V—	WALL HYDRANT	W.H.
—V—	WATER METER	
—V—	FLOOR CLEANOUT	F.C.O.
—V—	SHOCK ABSORBER	
—V—	LINE CLEANOUT	C.O.
—V—	CLEANOUT & WALL ACCESS PLATE	C.O.W.A.P.
—V—	FLOOR DRAIN	F.D.
—V—	FLOOR DRAIN	F.D.
—V—	UNION	
—V—	RAIN LEADER	R.L.
—V—	ABOVE CEILING	A.B.C.
—V—	VENT THRU ROOF	V.T.R.



SILENCERS HANGER DETAIL
NO SCALE



EMERGENCY SHOWER DETAIL
NO SCALE

PLUMBING FIXTURE SCHEDULE					
NO.	DESCRIPTION	WASTE	VENT	HW.	C.W.
P-1	WATER CLOSET (FLOOR MOUNTED)	4"	2"		1"
P-2	WATER CLOSET (WALL HUNG)	4"	2"		1"
P-2A	WATER CLOSET (HANDICAP-WALL HUNG)	4"	2"		1"
P-3	URINAL	2"	1 1/2"		3/4"
P-4	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"
P-4A	LAVATORY (HANDICAP)	1 1/2"	1 1/2"	1/2"	1/2"
P-5	FIRST AID SINK	1 1/2"	1 1/2"	1/2"	1/2"
P-6	SERVICE SINK	3"	2"	1/2"	1/2"
P-7	MOP SERVICE BASIN	3"	2"	1/2"	1/2"
P-8	ELECTRIC WATER COOLER	1 1/2"	1 1/2"		1/2"
P-9	SHOWERS (SHOWER PAC)			1/2"	1/2"
P-10	EYE / FACE WASH	1 1/2"	1 1/2"		3/4"
P-11	EMERGENCY SHOWER				1"

SHOCK ABSORBER SCHEDULE			
SYMBOL	FIXTURE UNIT CAP.	PIPE CONN.	REMARKS
(A)	1-11	3/4"	BASED ON P.D.I. RATING
(B)	12-32	1"	" " " "
(C)	33-60	1"	" " " "

NOTES:
1. ALL PIPING ENTERING AND LEAVING BUILDINGS SHALL HAVE A 4 FOOT MIN. COVER.
2. EQUIPMENT FLOOR DRAINS TO SUIT APPROVED MANUFACTURERS EQUIPMENT.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: R. CARDARELLI DESIGNED: D. MARSOLI
CHECKED: D. MARSOLI APPROVED: W. HUNDLEY
DATE: JULY, 1974

CE MAGUIRE, INC.
ARCHITECTS • ENGINEERS • PLANNERS
PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Maguire
CITY OF TAUNTON

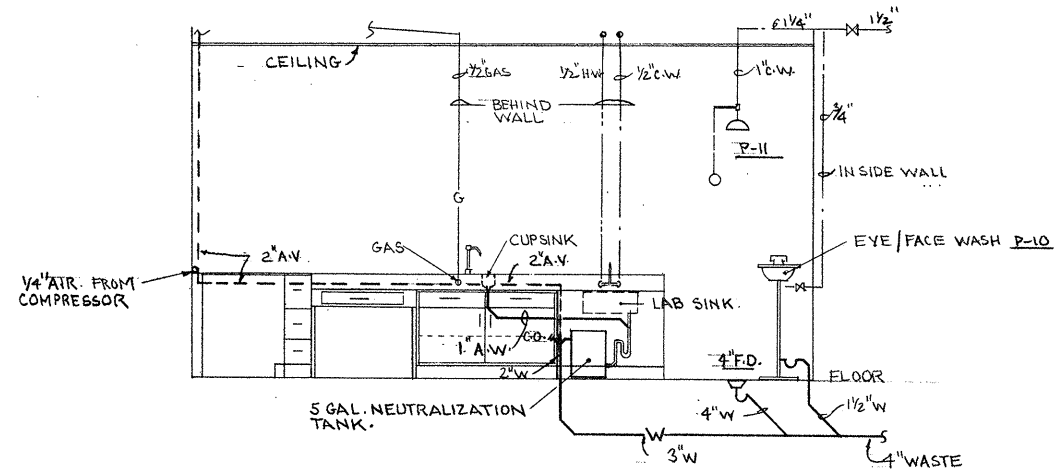
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS

MISCELLANEOUS
PLUMBING
LEGEND, SCHEDULES & DETAILS

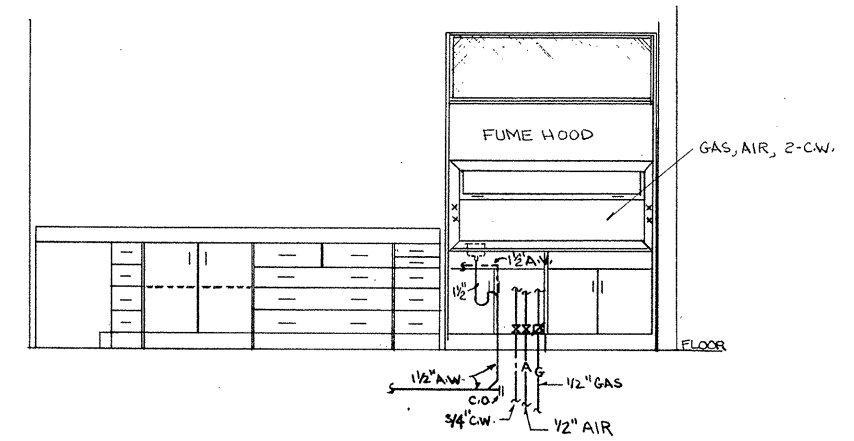
SCALE
AS NOTED

CEM NO. 1981

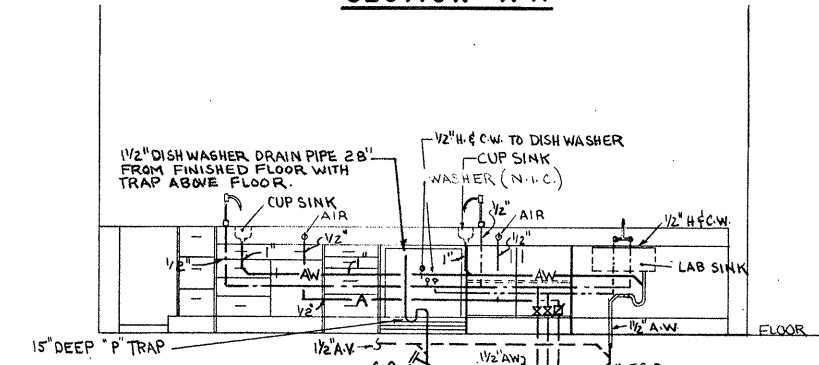
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P-10



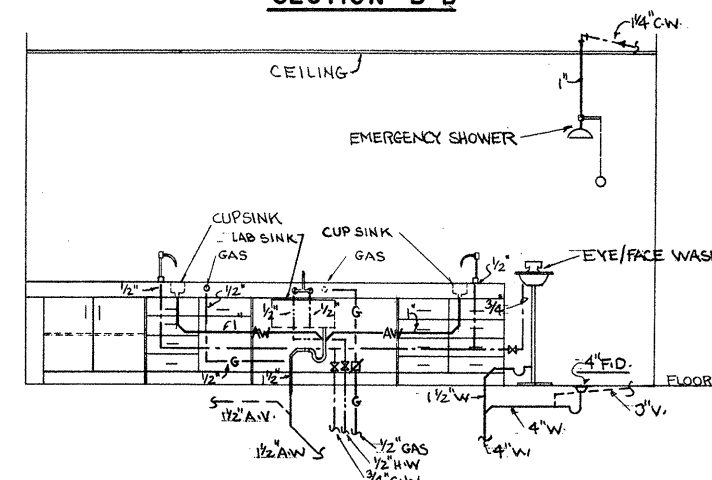
SECTION D-D



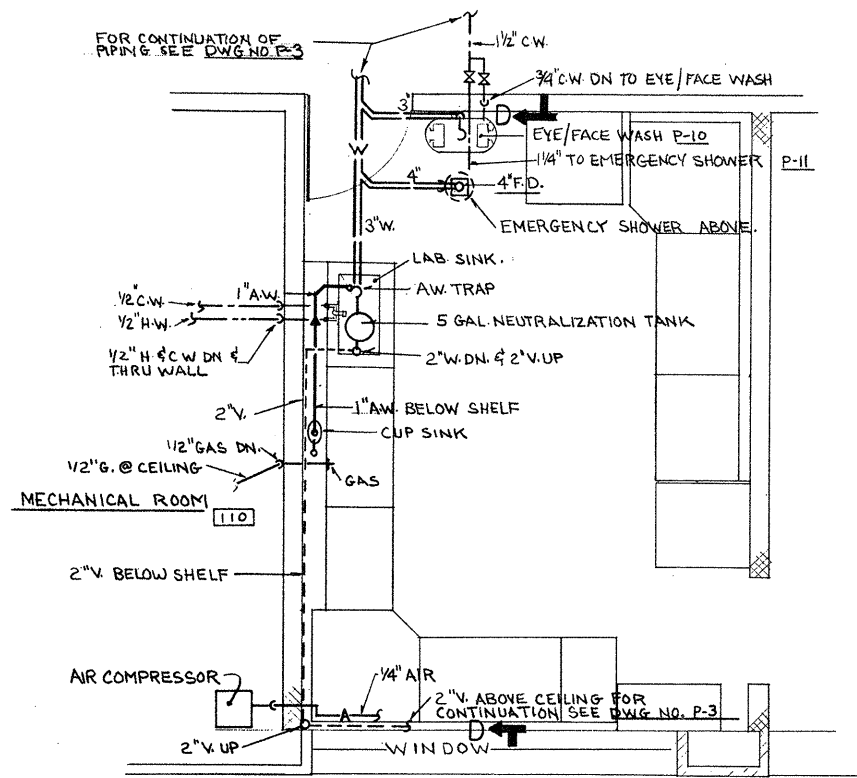
SECTION A-A



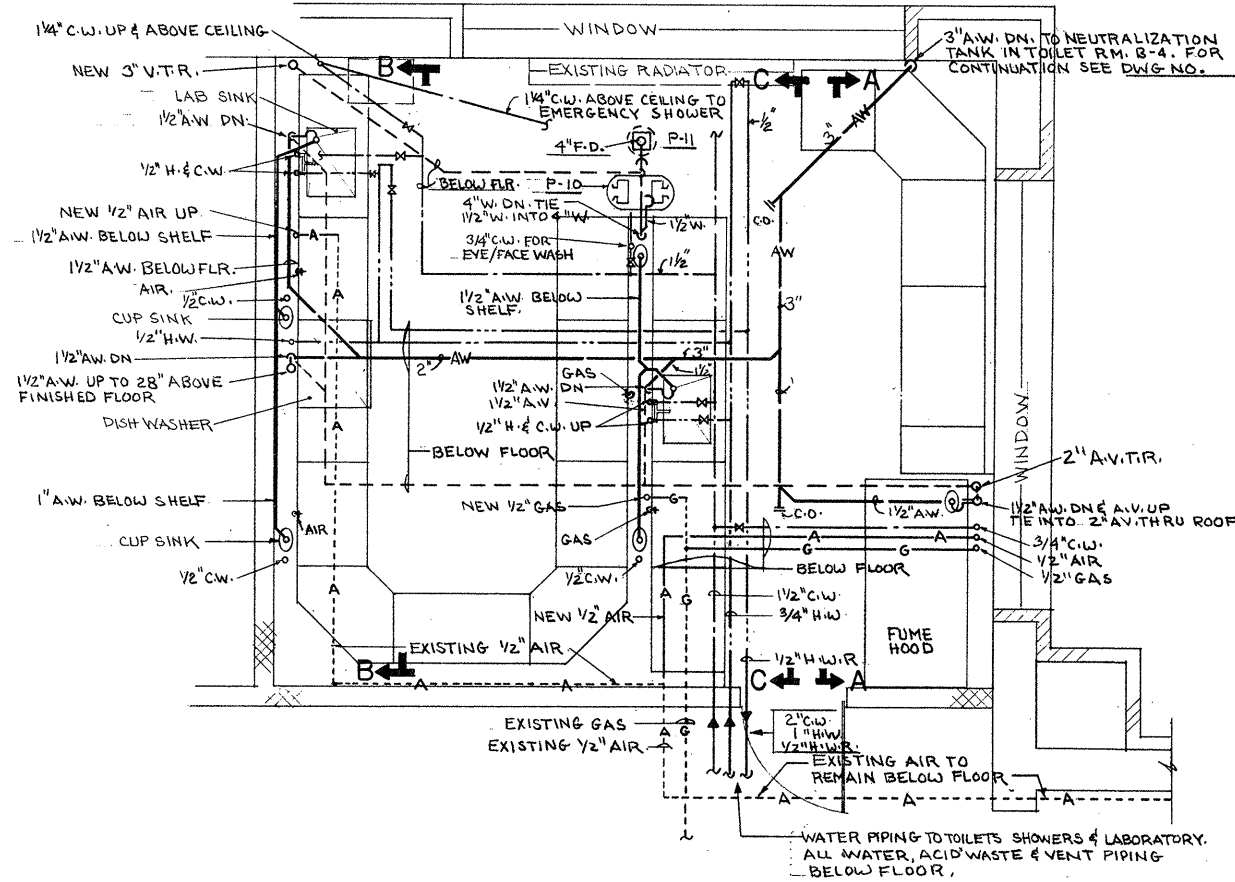
SECTION B-B



SECTION C-C



BACTERIOLOGICAL ANALYSIS-III



CHEMICAL ANALYSIS LAB-106

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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



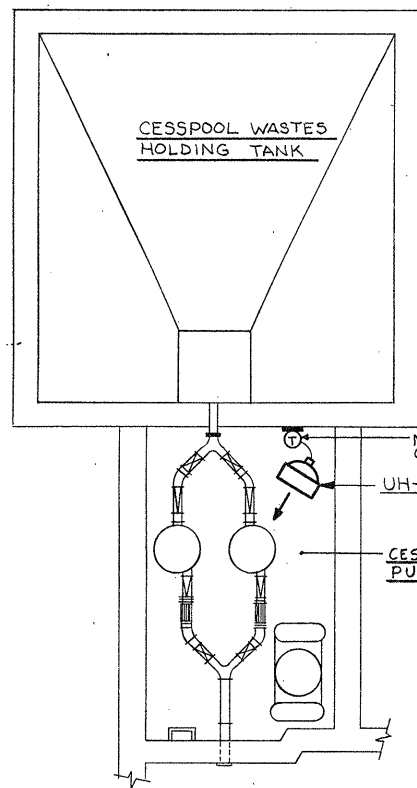
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 CHECKED: D. MARSOLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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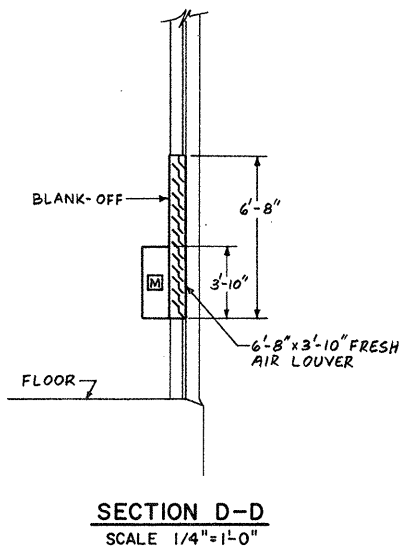
APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING WITH PIPE GALLERY
PLUMBING
 ENLARGED LABORATORY PLANS

SCALE
 3/8" = 1'-0"
 CEM NO.
 DRAWING NO.
P-11



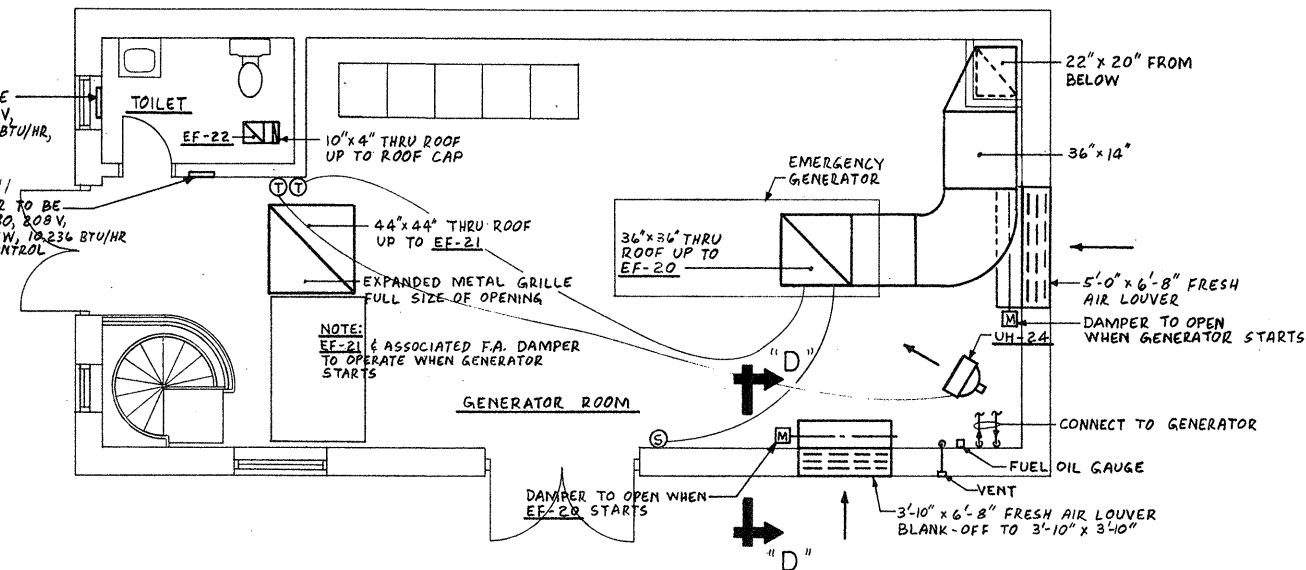
FLOOR PLAN-INLET WORKS
SCALE 1/4"=1'-0"



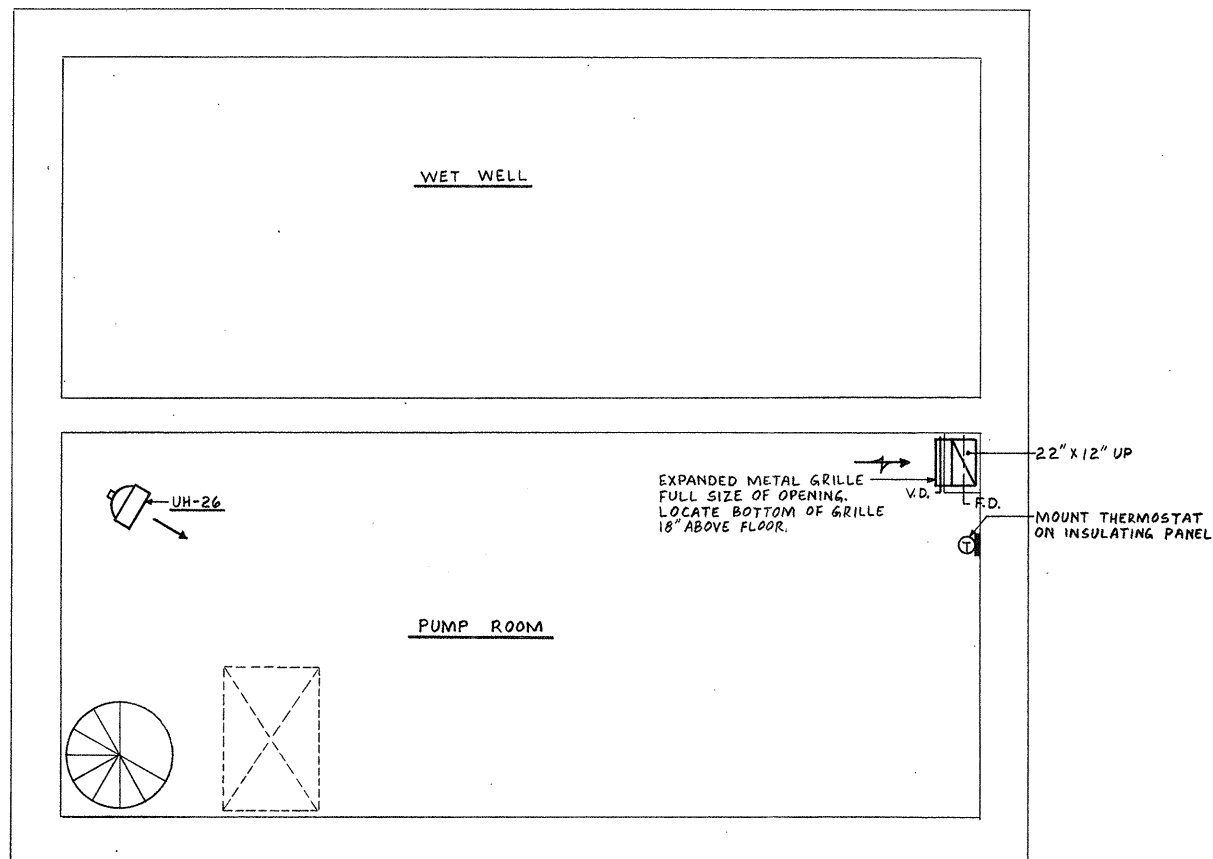
SECTION D-D
SCALE 1/4"=1'-0"

102
WALL INSERT HEATER TO BE "CHROMALOX" RSF-415, 208V, SINGLE Ø, 60 W, 1.5 KW, 5.118 BTU/HR, BUILT-IN T'STAT CONTROL

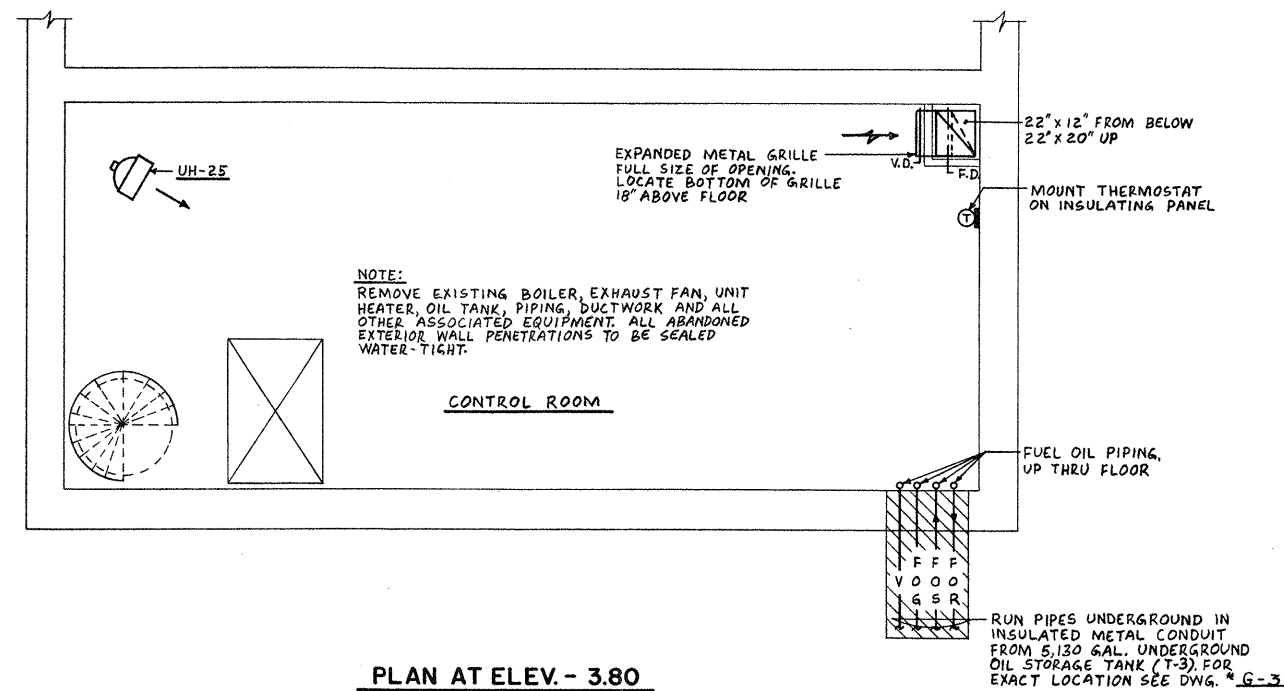
111
WALL INSERT HEATER TO BE "CHROMALOX" RSF-430, 208V, SINGLE Ø, 60 W, 3.0 KW, 10.236 BTU/HR, BUILT-IN T'STAT CONTROL



PLAN AT ELEV. 11.20
MODIFIED RAW SEWAGE PUMPING STATION
SCALE 1/4"=1'-0"



PLAN AT ELEV. 19.30
MODIFIED RAW SEWAGE PUMPING STATION
SCALE 1/4"=1'-0"



PLAN AT ELEV. - 3.80
MODIFIED RAW SEWAGE PUMPING STATION
SCALE 1/4"=1'-0"

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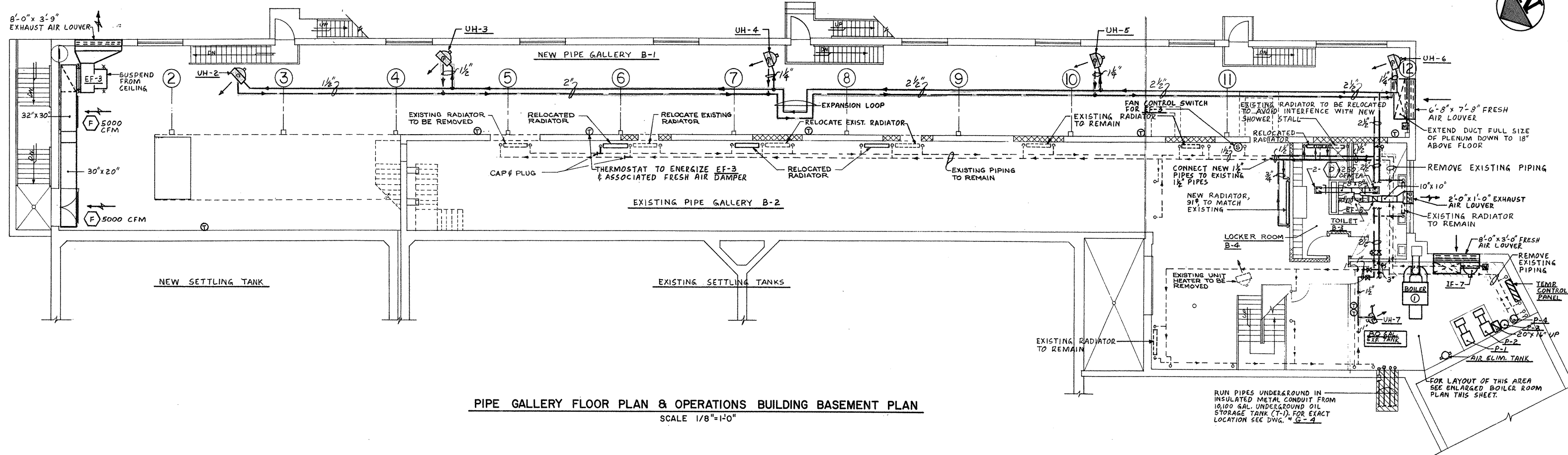
DRAWN: R. DESIDERATO DESIGNED: G. PETROCELLI
CHECKED: G. PETROCELLI APPROVED: W. HUNDLEY
DATE: JULY, 1974

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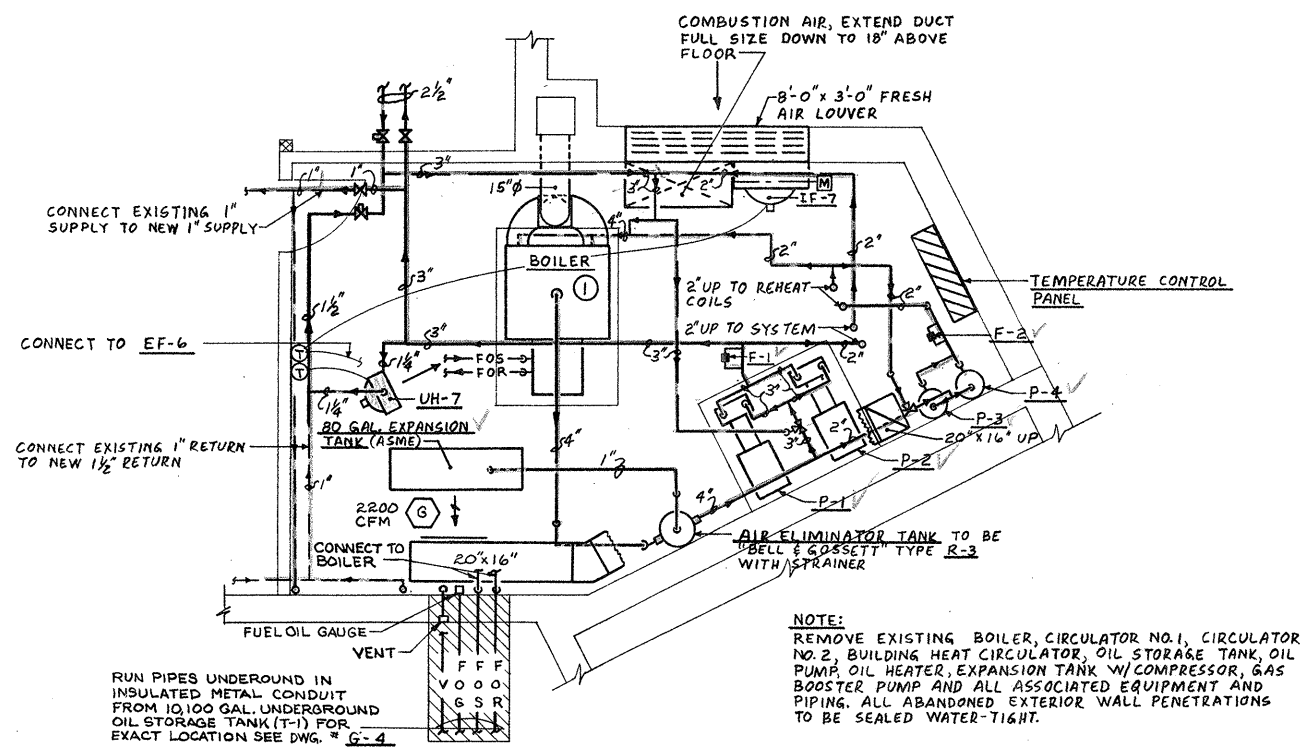
APPROVED
Charles G. Long
CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
INLET WORKS & MODIFIED RAW SEWAGE PUMPING STATION
HEATING AND VENTILATING FLOOR PLANS

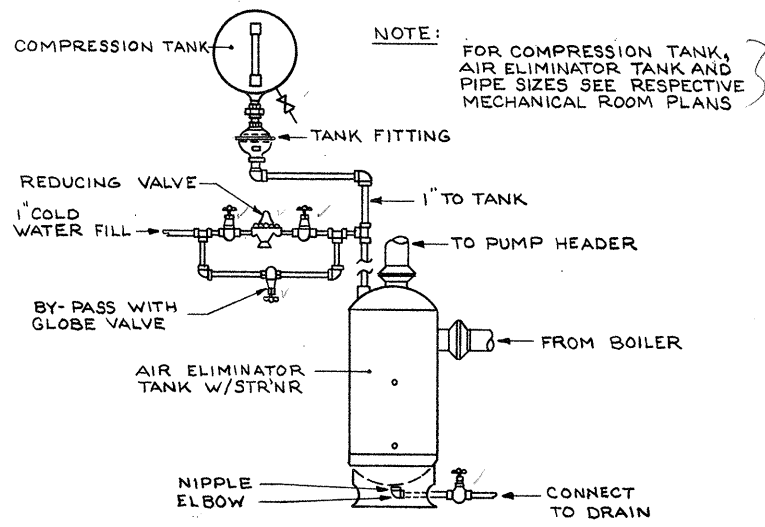
SCALE AS NOTED
CEM NO. 1981
DRAWING NO. **HV-1**



PIPE GALLERY FLOOR PLAN & OPERATIONS BUILDING BASEMENT PLAN
SCALE 1/8"=1'-0"



ENLARGED BOILER ROOM PLAN
SCALE 1/4"=1'-0"



TYPICAL AIR ELIMINATOR & COMPRESSION TANK PIPING SCHEMATIC
NO SCALE

OIL TANK SCHEDULE						
SYM	MFG'R	MODEL	CAPACITY IN GALS.	DIMENSIONS L x D	TAPPINGS	REMARKS
T-1	MASS ENGINEERING	B-17	10,100	15'-7" x 10'-6"	6	5/16" THICK O. B.
T-2	MASS ENGINEERING	B-2B	20,180	31'-2" x 10'-6"	6	3/8" THICK S. H.
T-3	MASS ENGINEERING	B-3	5,130	12'-1" x 8'-6"	6	1/2" THICK R. S. P.
T-4	MASS ENGINEERING	B-17	10,100	15'-7" x 10'-6"	8	5/16" THICK S. P.-1
T-5	MASS ENGINEERING	B-4A	6,020	16'-0" x 8'-0"	6	1/2" THICK C. H.
T-6	MASS ENGINEERING	B-3T	30,030	35'-6" x 12'-0"	6	5/16" THICK S. H.

BOILER SCHEDULE									
SYM	MFG'R	MODEL	1-B-R GROSS OUTPUT	1-B-R NET OUTPUT	#2 OIL RATE	BREECH	DRAFT FAN MFG'R	SIZE	
1	H.B. SMITH	3500-W-9	2,064 MBH	1,744.8 MBH	18.55	15" Ø	WING CO.	#35-125A	O. B.
2	H.B. SMITH	3500-W-14	3,500 MBH	3,043.5 MBH	31.00	18" Ø	WING CO.	#35-375	S. H.
3	H.B. SMITH	2300-L-W-11	1,148 MBH	998.3 MBH	10.40	14" Ø			C. H.

ATTENTION
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DRAWN: R. DESIDERATO DESIGNED: G. PETROCELLI
 CHECKED: G. PETROCELLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974

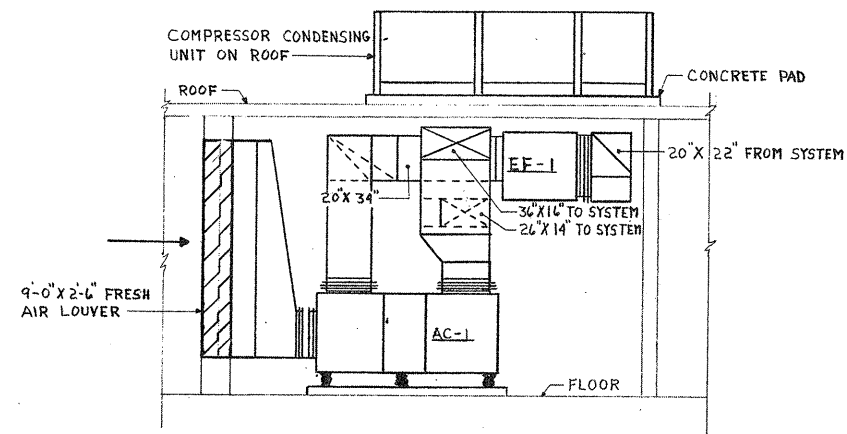
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APPROVED
Charles A. Perry
 CITY OF TAUNTON

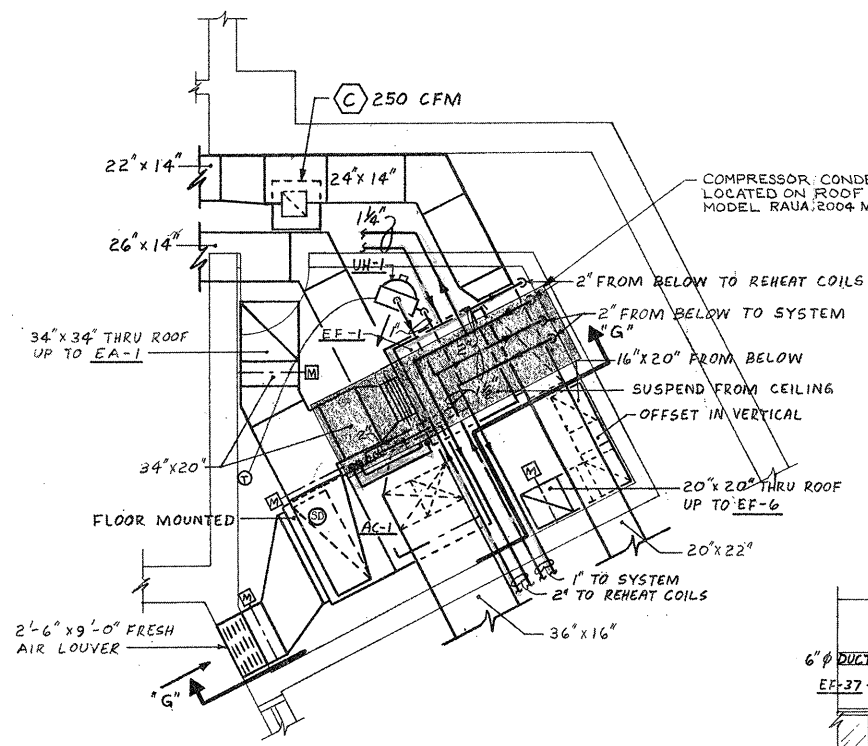
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING WITH PIPE GALLERY
HEATING AND VENTILATING PLAN AT ELEVATION 15.0'

SCALE AS NOTED
 CEM NO. 1981
 DRAWING NO. **HV-2**

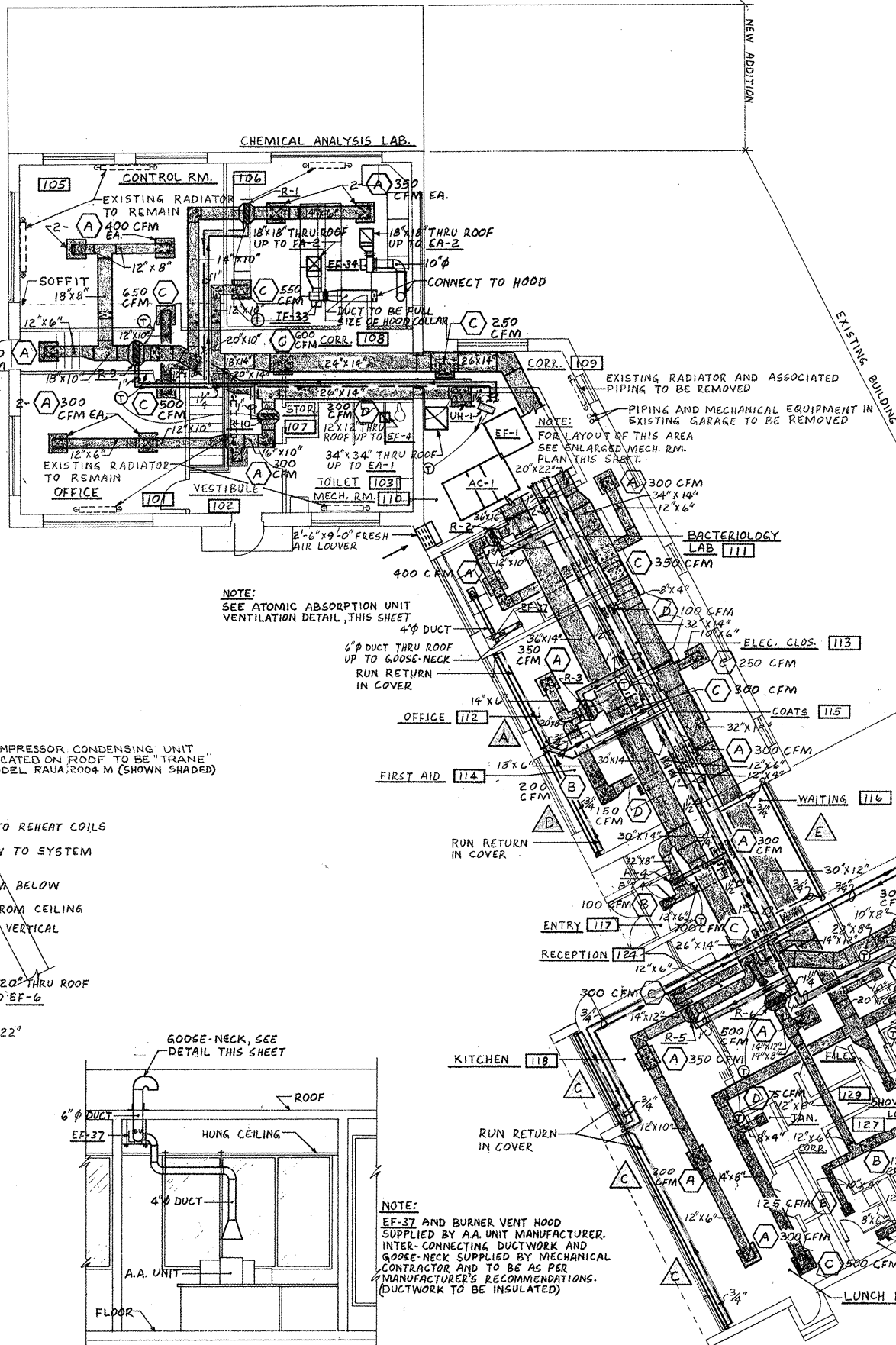
FLOW INDICATOR SCHEDULE								
SYM	MFG'R	MODEL	LOC	SIZE	GPM	PD FT OF WATER	SCALE READ IN H ₂ O	REMARKS
F-1	BELL & GOSSETT	THERMOFLO	BOILER RM	3"	118	0.8	4.3	O.B.
F-2	BELL & GOSSETT	THERMOFLO	BOILER RM	1 1/2"	34	1.1	6.0	O.B.
F-3	BELL & GOSSETT	THERMOFLO	BOILER RM	4"	270	0.7	5.8	S.H.
F-4	BELL & GOSSETT	THERMOFLO	BOILER RM	2 1/2"	88	1.7	4.8	C.H.



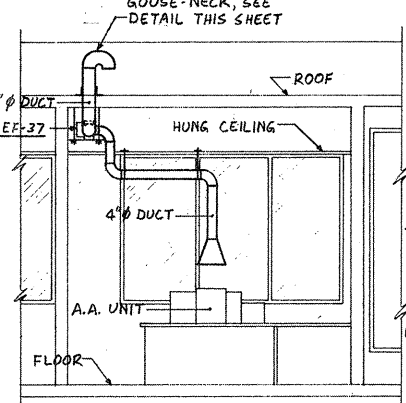
SECTION G-G
SCALE 1/4" = 1'-0"



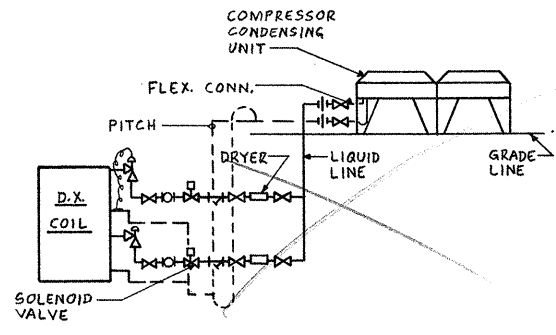
ENLARGED MECHANICAL ROOM PLAN
SCALE 1/4" = 1'-0"



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



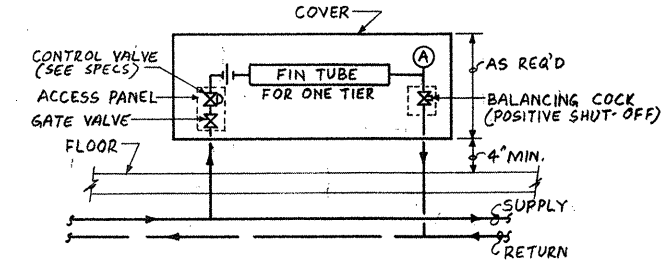
ATOMIC ABSORPTION UNIT VENTILATION DETAIL
SCALE 1/4" = 1'-0"



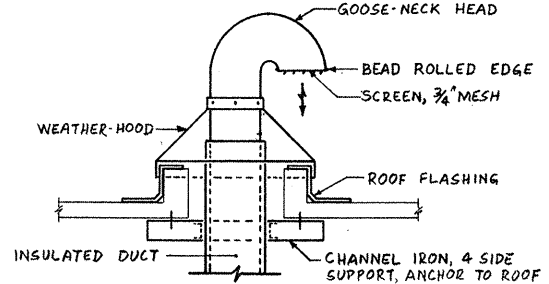
TYPICAL REFRIGERANT PIPING SCHEMATIC
NO SCALE

NOTE:
REFRIGERANT PIPE SIZES & PIPING ARRANGEMENT TO BE AS RECOMMENDED BY MANUFACTURER. SUBMIT SHOP DWG. FOR APPROVAL. ALL REFRIGERANT SUCTION LINES SHALL BE TRAPPED AT EVERY RISE IN ELEVATION.

ATTENTION
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TYPICAL RADIATION DETAIL
NO SCALE



GOOSE-NECK DETAIL
NO SCALE

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: R. DESIDERATO DESIGNED: G. PETROCELLI
 CHECKED: G. PETROCELLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974

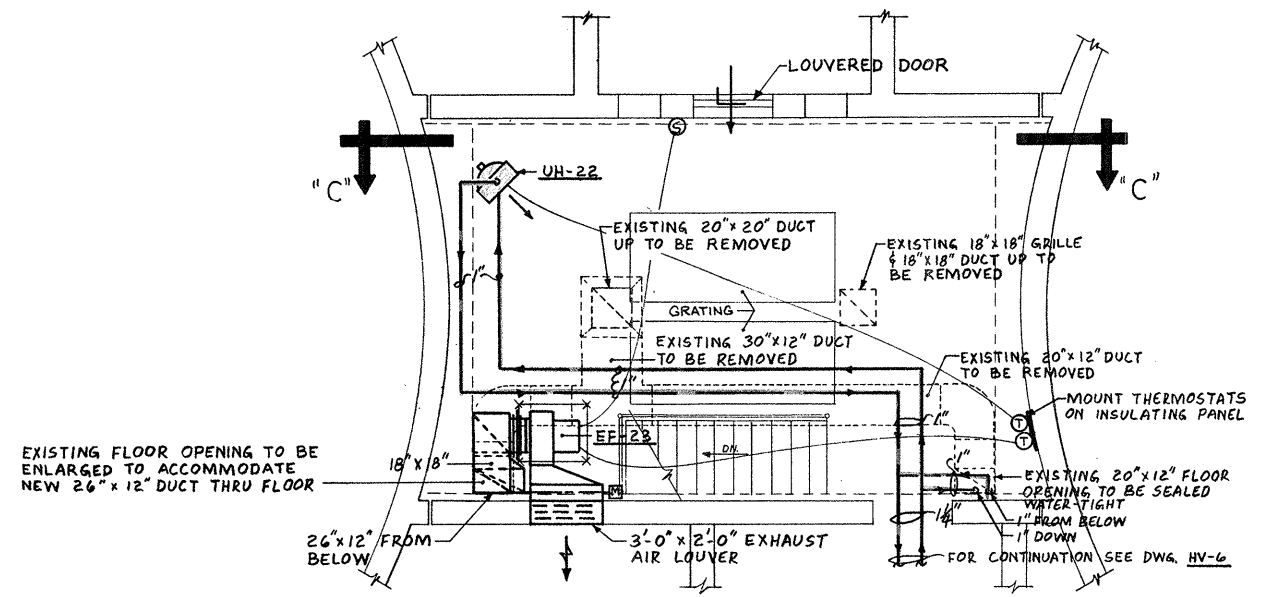
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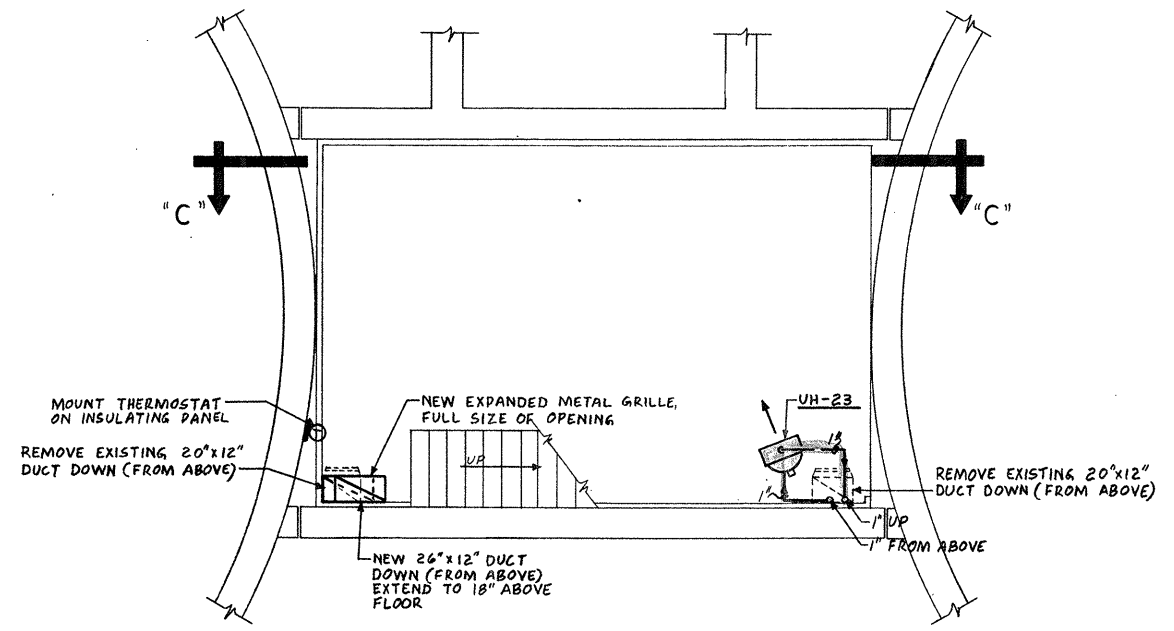
CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING WITH PIPE GALLERY
HEATING AND VENTILATING
 FIRST FLOOR PLAN AT ELEV. 30.0'

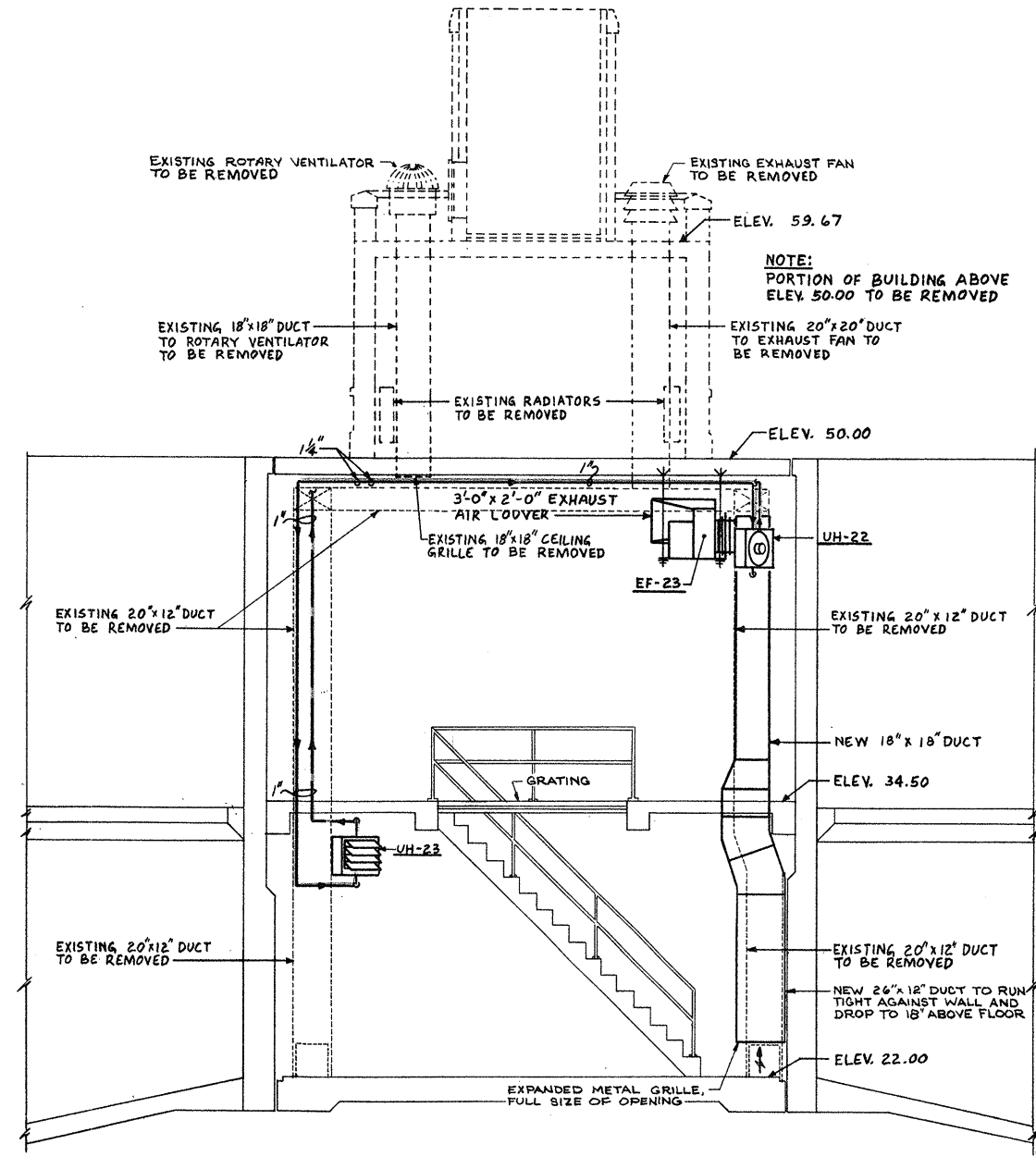
SCALE:
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
HV-3



PLAN AT ELEV. 34.50
SCALE 1/4"=1'-0"



PLAN AT ELEV. 22.00
SCALE 1/4"=1'-0"



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

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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: R. LEDOUX DESIGNED: G. PETROCELLI
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 DATE: JULY, 1974

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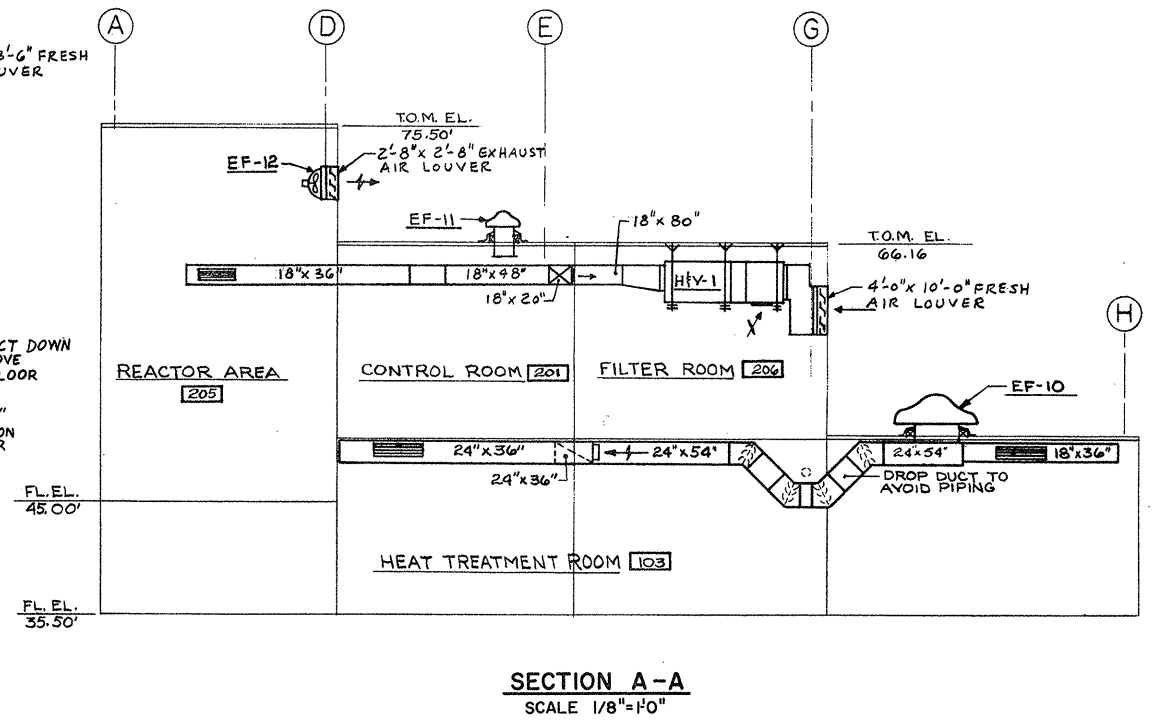
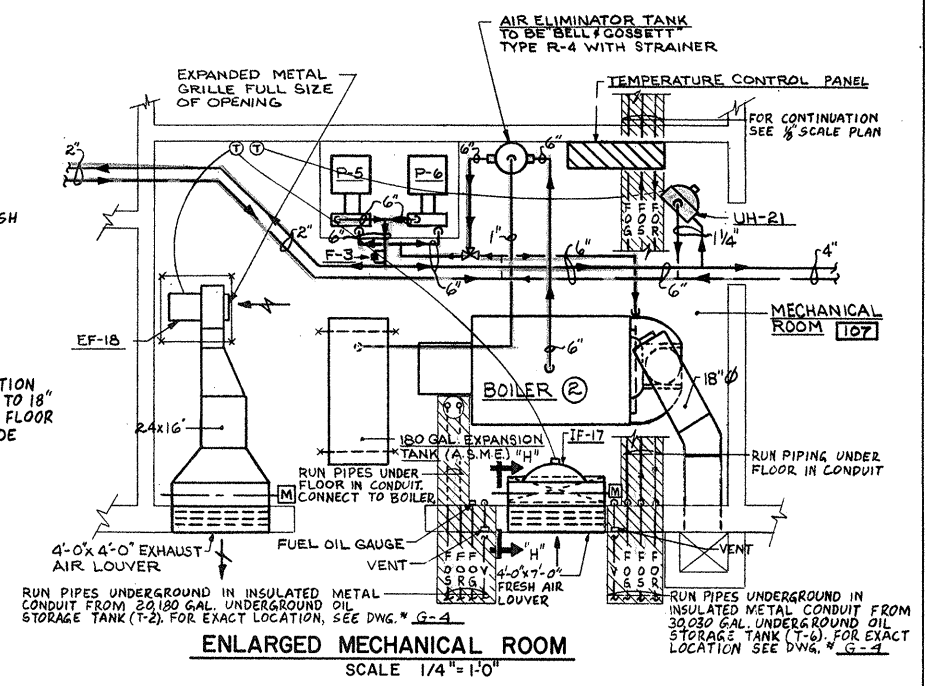
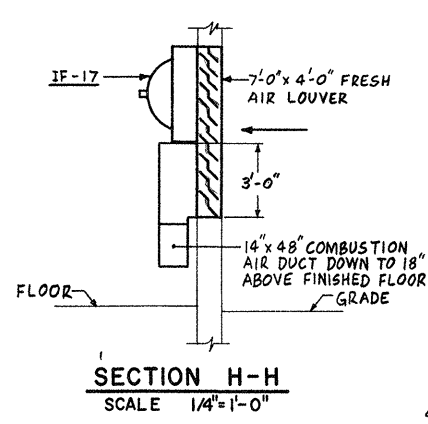
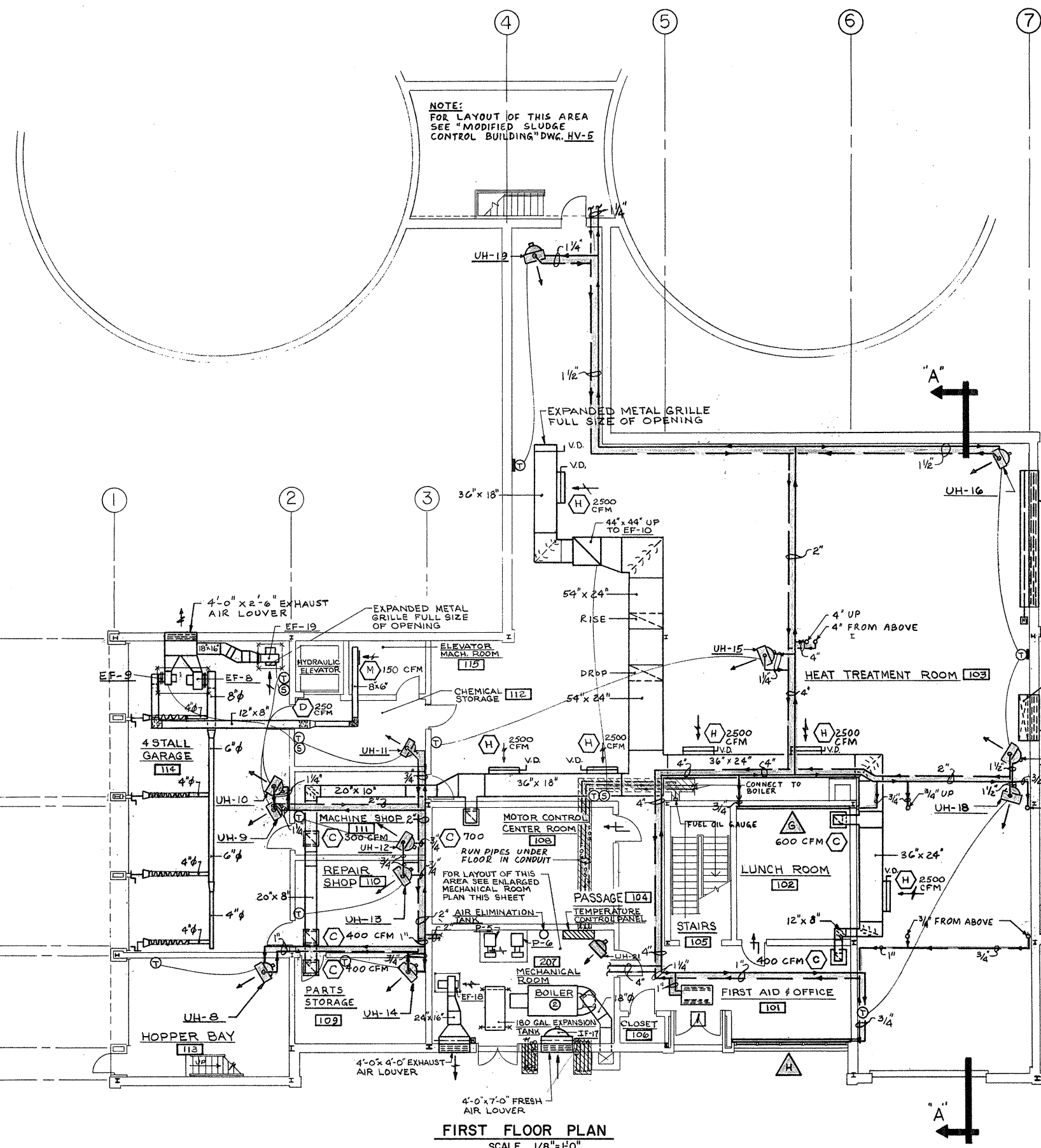
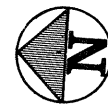
APPROVED
Charles G. Maguire
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 MODIFIED SLUDGE CONTROL BUILDING
HEATING AND VENTILATING FLOOR PLANS

SCALE
AS NOTED

CEM NO. 1981

DRAWING NO.
HV-5



ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



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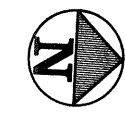
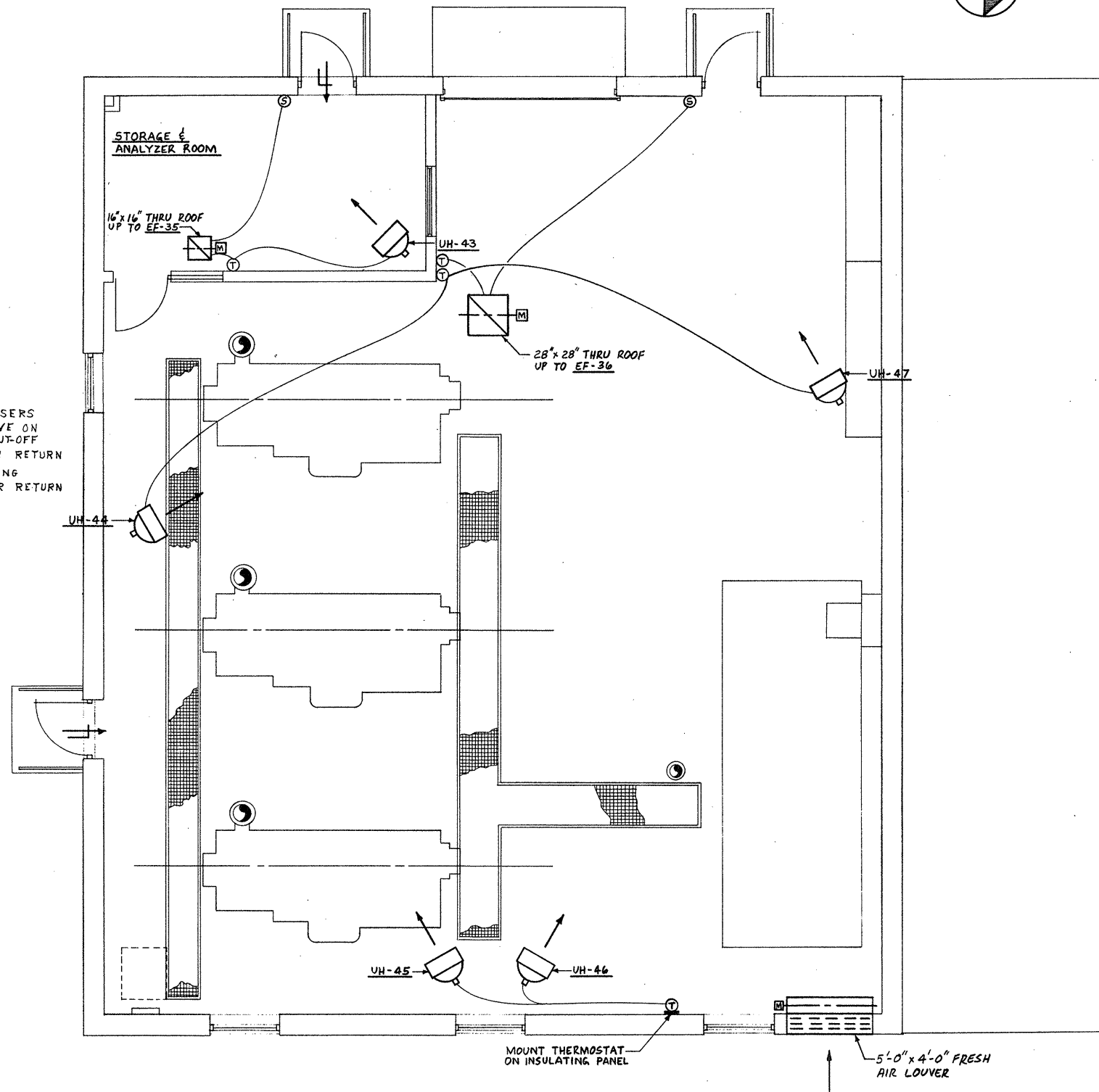
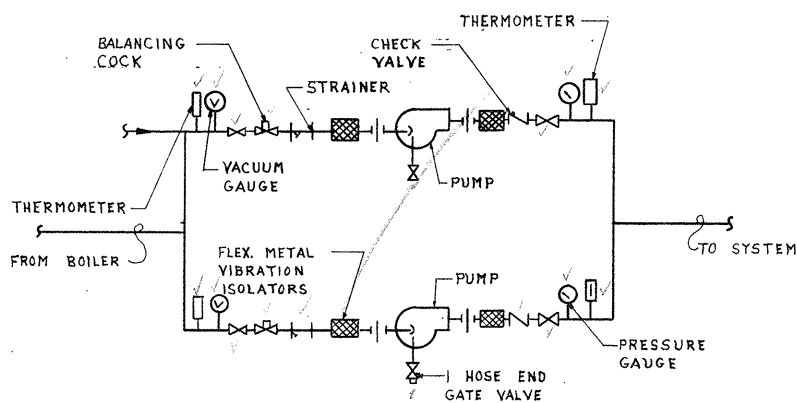
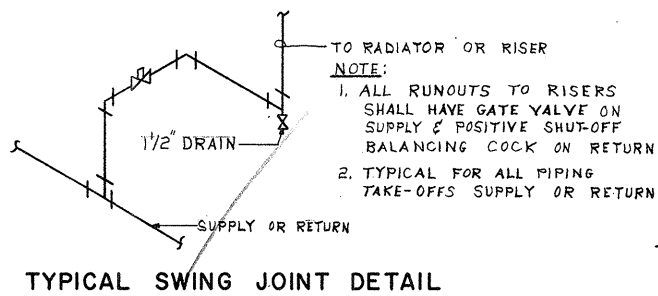
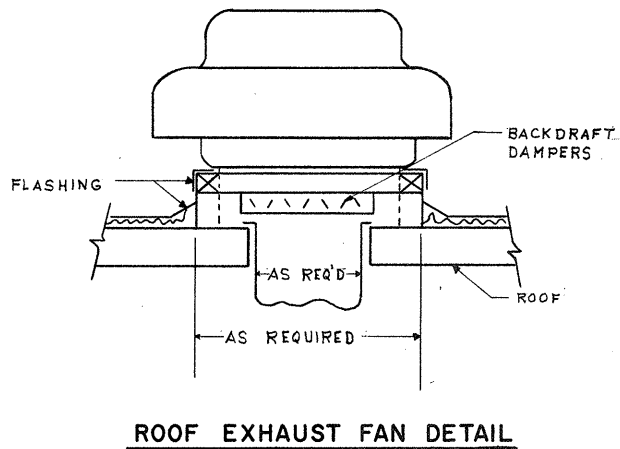
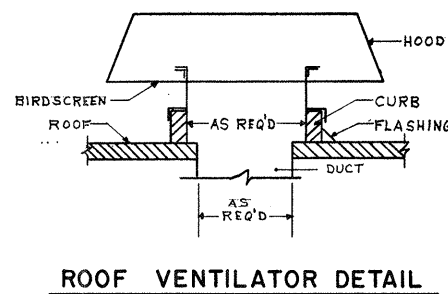
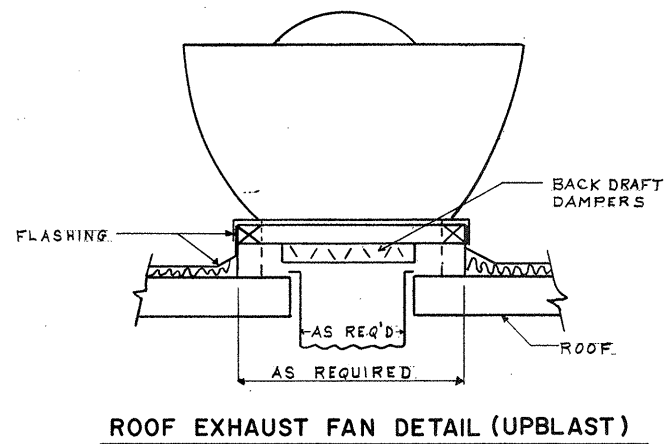
APPROVED
Charles A. King
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
 HEATING AND VENTILATING
 FIRST FLOOR PLAN

SCALE
 AS NOTED

CEM NO. 1981

DRAWING NO.
HV-6



ATTENTION
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: B. DESIDERATO DESIGNED: G. PETROCELLI
 CHECKED: G. PETROCELLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974

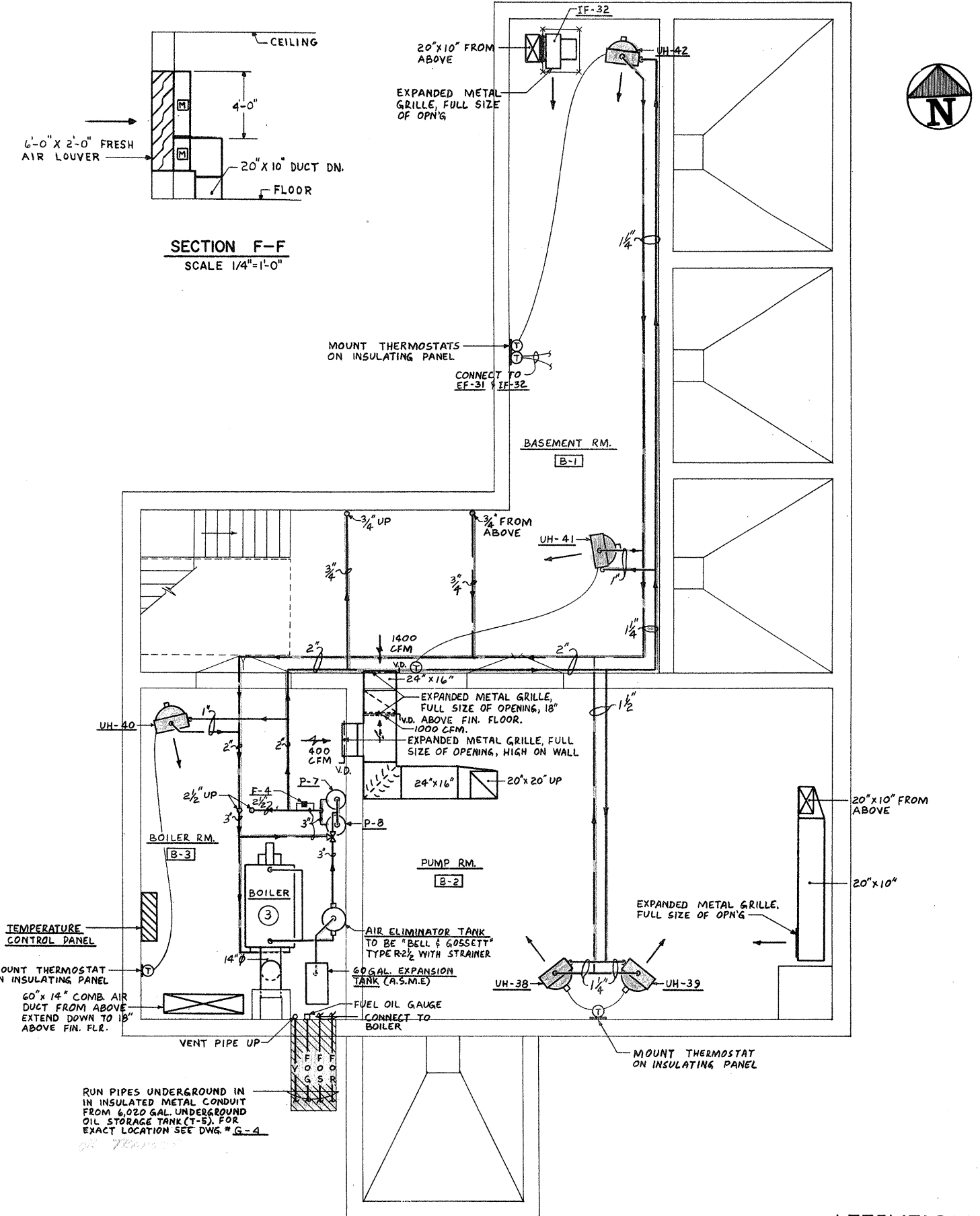
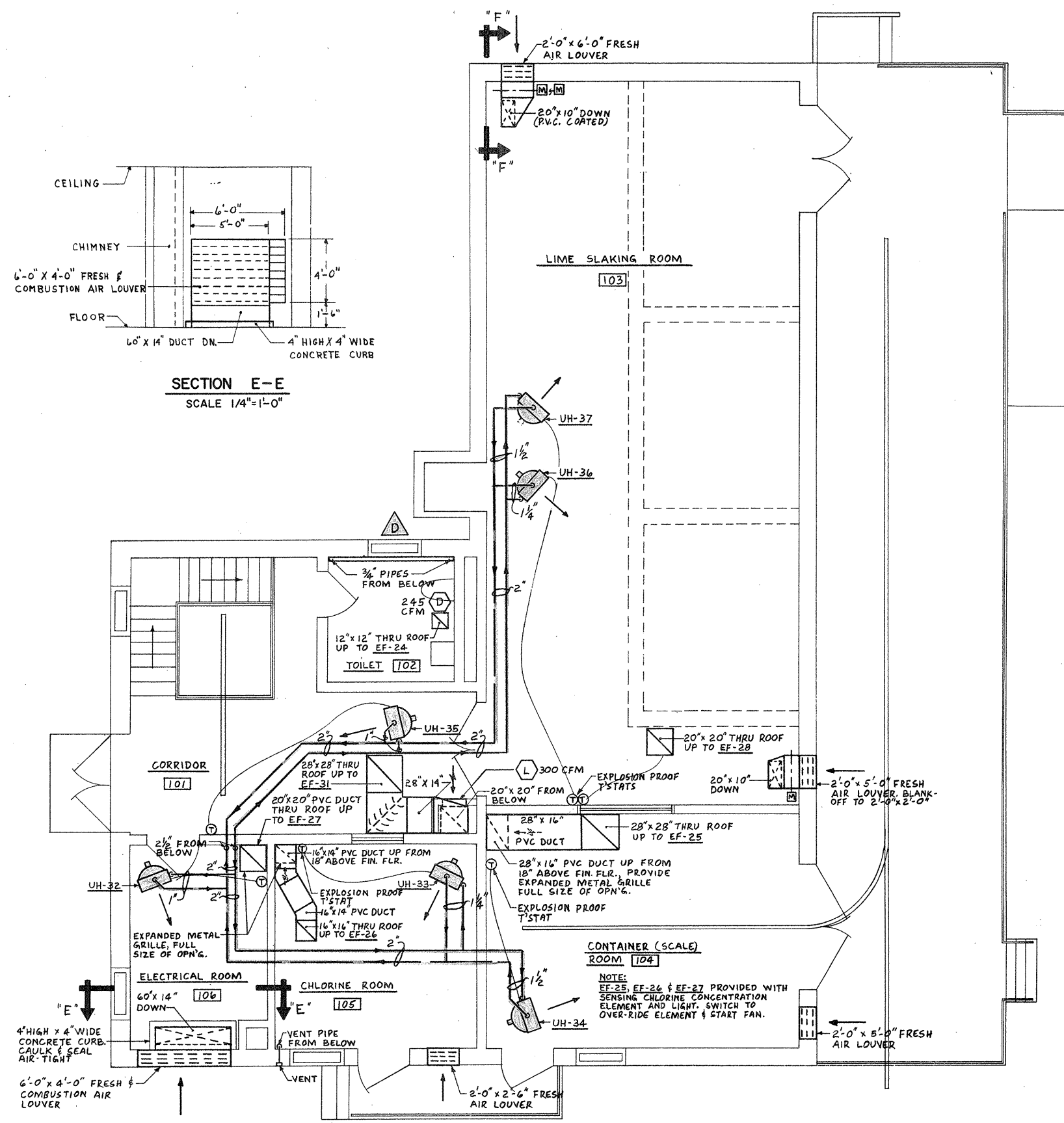
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APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OXYGEN GENERATION BUILDING
HEATING AND VENTILATING FLOOR PLAN

SCALE AS NOTED
 CEM NO. 1981
 DRAWING NO.
HV-8



ATTENTION.
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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



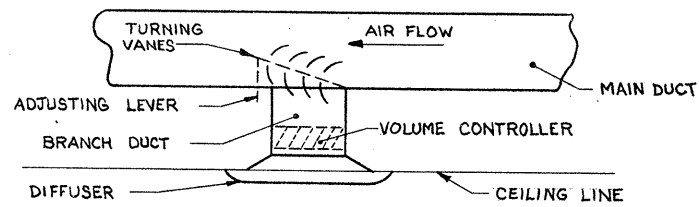
DRAWN: R. DESIDERATO DESIGNED: G. PETROCELLI
 CHECKED: G. PETROCELLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 CHEMICAL HANDLING BUILDING
HEATING AND VENTILATING FLOOR PLANS

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
HV-9

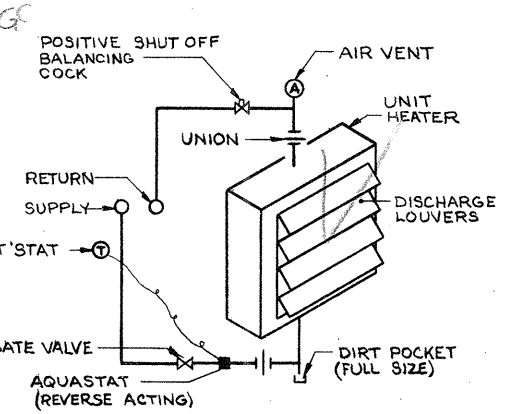


TYPICAL BRANCH DUCT & DIFFUSER TAKE-OFF DETAIL

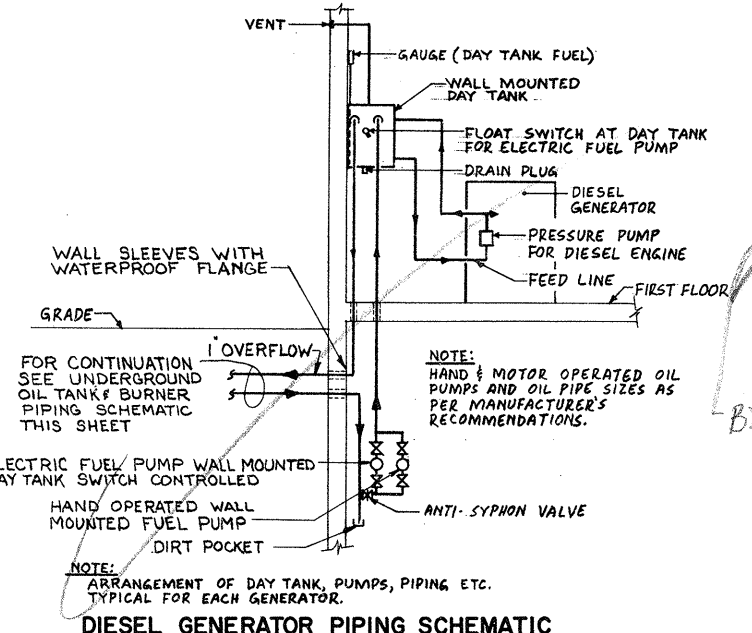
UNIT HEATER SCHEDULE (CONT.)											
SYM	MFG'R	MODEL	HP	CFM	SIZE			GPM	MBH	RPM	REMARKS
					D	W	H				
UH-35	TRANE	90-S	1/2	1214	21 3/8"	24 3/8"	20 1/2"	4.7	45.3	1550	
UH-36	TRANE	106-S	1/2	2808	25 3/8"	33 3/8"	26 1/4"	11.0	103.9	1100	EXPLOSION PROOF ENCAPSULATED W/P.V.C.
UH-37	TRANE	230-S	1/2	3299	26 1/4"	19 3/4"	32 1/2"	13.7	133.2	1100	EXPLOSION PROOF ENCAPSULATED W/P.V.C.
UH-38	TRANE	126-S	1/8	1760	24 1/8"	31 1/8"	23 3/8"	7.2	69.8	1100	
UH-39	TRANE	126-S	1/8	1760	24 1/8"	31 1/8"	23 3/8"	7.2	69.8	1100	
UH-40	TRANE	100-S	1/8	1535	24 1/8"	26 3/8"	20 1/2"	5.2	50.8	1550	
UH-41	TRANE	100-S	1/8	1535	24 1/8"	26 3/8"	20 1/2"	5.2	50.8	1550	
UH-42	TRANE	126-S	1/8	1760	24 1/8"	31 1/8"	23 3/8"	7.2	69.8	1100	
UH-43	CHROMALOX	LUH-12-18	1/10	750	15"	17 1/4"	20 1/2"		42.6	1550	12.5 KW
UH-44	CHROMALOX	LUH-30-03	1/2	1555	24 3/8"	20 1/2"	24"		102.3	1725	30.0 KW
UH-45	CHROMALOX	LUH-30-03	1/2	1555	24 3/8"	20 1/2"	24"		102.3	1725	30.0 KW
UH-46	CHROMALOX	LUH-30-03	1/2	1555	24 3/8"	20 1/2"	24"		102.3	1725	30.0 KW
UH-47	CHROMALOX	LUH-30-03	1/2	1555	24 3/8"	20 1/2"	24"		102.3	1725	30.0 KW
UH-48	CHROMALOX	LUH-07-08	1/10	670	15"	17 1/4"	20 1/2"		25.6	1550	7.5 KW

NOTE: ELECTRIC UNIT HEATERS FURNISHED UNDER ELECTRICAL SECTION OF PROJECT.

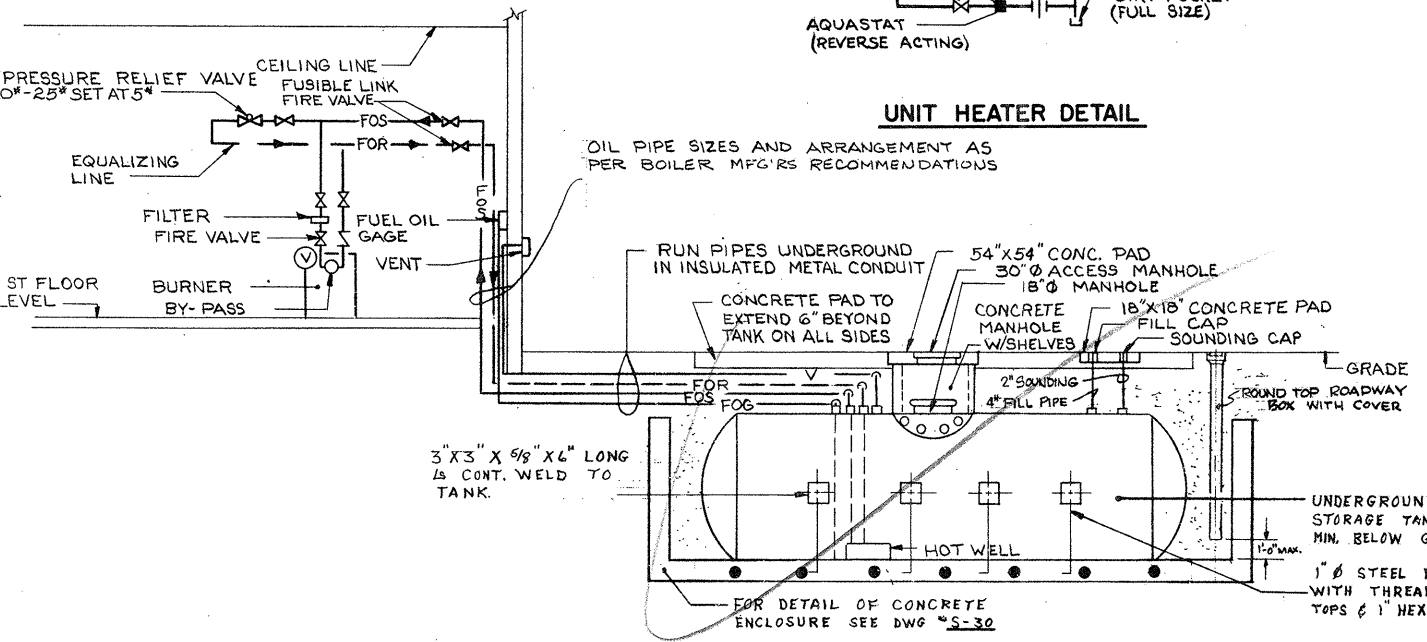
EXHAUST FAN SCHEDULE (CONT.)										
SYM	MFG'R	MODEL	AREA	CFM	SP IN H ₂ O	RPM	HP	DRIVE	ROOF OR WALL OPNG	REMARKS
IF-33V	BY HOOD MANUFACTURER	93810	CHEMICAL ANALYSIS	600	1/4"	1750	1/4	DIRECT		INTAKE FAN
EF-34V	BY HOOD MANUFACTURER	93825	CHEMICAL ANALYSIS	975	1/4"	1750	1/2	DIRECT		
EF-35	SWARTWOUT	12FA-1	STOR. ANAL. ROOM	362	1/4"	860	1/2	DIRECT	16" x 16"	
EF-36	SWARTWOUT	24FA-6B	COMPRESSOR ROOM	5,499	1/4"	902	1	BELT	28" x 28"	2 SPEED
EF-37	SUPPLIED BY	ATOMIC ABSORPTION	UNIT MANUFACTURER							
EF-38	SWARTWOUT	14FA-1	METER RM	424	3/8"	860	1/2	DIRECT	16" x 16"	



UNIT HEATER DETAIL

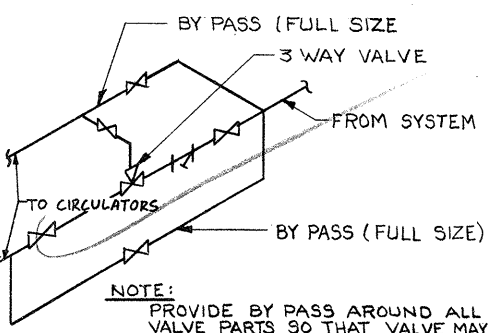


DIESEL GENERATOR PIPING SCHEMATIC

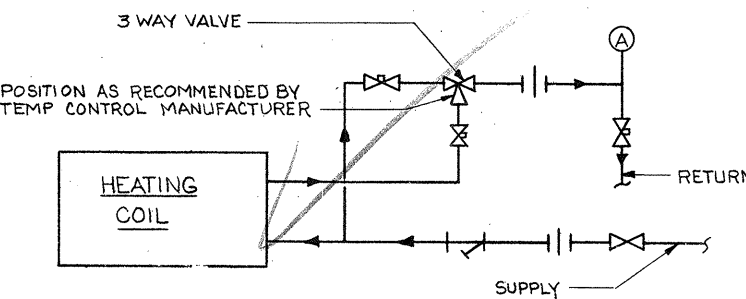


TYPICAL UNDERGROUND OIL TANK & BURNER PIPING SCHEMATIC

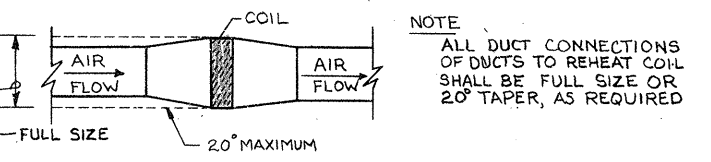
RADIATION RUNOUT SCHEDULE	
PIPE SIZE	GPM
1/2"	0-1.5
3/4"	1.5-2.2
1"	2.2-7
1 1/4"	7-13
1 1/2"	13-20
2"	20-38
2 1/2"	38-70
3"	70-120
4"	120-230



3-WAY BYPASS ARRANGEMENT



REHEAT COIL PIPING SCHEMATIC



REHEAT COIL DUCT CONNECTION DETAIL

GENERAL NOTES:

- FOR INLET WORKS & MODIFIED RAW SEWAGE PUMPING STATION SEE DWG. HV-1.
- FOR OPERATIONS BLDG. AND PIPE GALLERY SEE DWGS. HV-2 & HV-3.
- FOR SLUDGE PUMPING STATION NO. 1 SEE DWG. HV-4.
- FOR SLUDGE PUMPING STATION NO. 2 SEE DWG. HV-4.
- FOR MODIFIED SLUDGE CONTROL BLDG. SEE DWG. HV-5.
- FOR SLUDGE HANDLING BLDG. SEE DWGS. HV-6 & HV-7.
- FOR OXYGEN GENERATION BUILDING SEE DWG. HV-8.
- FOR CHEMICAL HANDLING BUILDING SEE DWG. HV-9.
- FOR LEGEND, SCHEDULES, AND DETAILS SEE DWGS. HV-10 & HV-11.
- INSTALL ON ALL RETURN RADIATION PIPES, BALANCING COCKS OF THE POSITIVE SHUT-OFF TYPE.
- INSTALL VOLUME DAMPERS ON ALL DUCT BRANCHES. DAMPERS TO BE OF THE OPPOSED BLADE TYPE. NO OTHER KIND WILL BE ACCEPTABLE.
- INSTALL FIRE DAMPERS WITH FUSIBLE LINK AT ALL PENETRATIONS THRU FIRE WALLS AND FLOORS. FIRE DAMPERS SHALL BE FUSED TO 140°F. ACCESS DOOR IN DUCT SHALL BE PROVIDED AT EACH FIRE DAMPER.
- PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES, VENTS, DRAINS AND ALL OTHER MECHANICAL EQUIPMENT.
- FINAL LOCATION OF ALL REGISTERS, GRILLES AND DIFFUSERS TO BE COORDINATED WITH THE REFLECTED CEILING AND LIGHTING PLANS BEFORE INSTALLATION.
- ALL DUCTS AND PIPING TO BE COORDINATED WITH OTHER TRADES BEFORE INSTALLATION.
- INSTALL DEFLECTING VANES ON ALL SQUARE TAKE-OFFS AND TURNING VANES ON ALL SQUARE ELBOWS.
- ALL PIPING TO BE PROPERLY SUPPORTED FROM STRUCTURE.
- USE ONE PIECE GALVANIZED PIPE WHEREVER POSSIBLE FOR EXPOSED FLOOR TO FLOOR PIPING RISERS.
- CONTRACTOR TO REVISE, RELOCATE OR REROUTE ANY EXISTING PIPING, VALVES, EQUIPMENT ETC. AS REQUIRED OR DIRECTED.
- ALL PENETRATIONS THRU FLOORS, WALLS ETC. INTO EXPLOSION OR CHLORINE HAZARDOUS AREAS ARE TO BE CAULKED PERMANENTLY GAS TIGHT.
- ALL TAKE-OFFS FROM MAINS TO RADIATION, UNIT VENTILATORS AND UNIT HEATERS SHALL BE OF THE SWING JOINT TYPE.
- ALL PIPE PENETRATIONS THROUGH PIPE GALLERY SHALL BE WATER AND GAS TIGHT.
- TEMPERATURE CONTROLS, PUMP CONTROLS ETC. IN PIPE GALLERY SHALL BE WATERPROOF. ALL MOTORS SHALL BE TOTALLY ENCLOSED.
- ALL CONDUIT AND FITTINGS FOR TEMPERATURE CONTROLS IN CHLORINATION ROOMS AND CHEMICAL STORAGE ROOMS SHALL BE PVC COATED. THERMOSTATS IN THESE AREAS SHALL BE CORROSION-PROOF.
- REFURBISH ALL TEMPERATURE CONTROLS INCLUDING CONTROL VALVES TO INSURE PROPER OPERATION. REPLACE WITH NEW EQUIPMENT ANY DEFECTIVE CONTROLS, DEVICES OR PARTS.
- ALL VENTS AND PRESSURE RELIEFS THRU ROOF TO BE 24' MAX ABOVE ROOF.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

PUMP SCHEDULE							
SYM	MFG'R	MODEL	GPM	RPM	HEAD PRESS	HP	REMARKS
P-1	BELL & GOSSETT	U2-A	118	1750	37'	3	SYSTEM
P-2	BELL & GOSSETT	U2-A	118	1750	37'	3	SYSTEM (SPARE)
P-3	BELL & GOSSETT	1 1/2 AA	34	1750	20'	1/2	REHEATS
P-4	BELL & GOSSETT	1 1/2 AA	34	1750	20'	1/2	REHEATS (SPARE)
P-5	BELL & GOSSETT	U3-A	270	1750	27'	3	SYSTEM
P-6	BELL & GOSSETT	U3-A	270	1750	27'	3	SYSTEM (SPARE)
P-7	BELL & GOSSETT	2A	88	1750	19'	1	SYSTEM
P-8	BELL & GOSSETT	2A	88	1750	19'	1	SYSTEM (SPARE)

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: R. LEDOUX DESIGNED: G. PETROCELLI
 CHECKED: G. PETROCELLI APPROVED: W. HUNDLEY
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS - ENGINEERS - PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED: *Charles A. Long*
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 MISCELLANEOUS
HEATING AND VENTILATING SCHEDULES AND DETAILS

SCALE
 NO SCALE
 CEM NO. 1981
 DRAWING NO.
HV-10

REHEAT COIL SCHEDULE

SYM	MFG'R	MODEL	LOCATION	SIZE	TOTAL COIL AREA	TOTAL CFM	GPM	MBH	REMARKS
R-1	TRANE	T	CHEMICAL ANALYSIS LAB	18"X12"	1.5	700	3.3	33	TWO ROW
R-2	TRANE	T	BACTERIOLOGICAL ANALYSIS LAB	18"X12"	1.5	700	3.3	33	"
R-3	TRANE	T	CHEMIST & ASS'T	24"X12"	2.0	850	4.0	40	"
R-4	TRANE	T	WAITING	12"X9"	.75	400	1.9	19	"
R-5	TRANE	T	LUNCH RM.	24"X12"	2.0	950	4.5	45	"
R-6	TRANE	T	RECEPTION	24"X12"	2.0	925	4.4	44	"
R-7	TRANE	T	ENGINEER'S OFFICE	12"X9"	.75	300	1.4	14	"
R-8	TRANE	T	LIBRARY & CONFERENCE	18"X9"	1.13	600	2.8	28	"
R-9	TRANE	T	CORR. 104	24"X12"	2.0	1100	4.8	48	"
R-10	TRANE	T	CORR. 104	30"X9"	1.88	900	3.9	39	"

NOTE:
COIL FACE VELOCITY NOT TO EXCEED 550 FPM.

REGISTER GRILLE & DIFFUSER SCHEDULE

SYM	MFG'R	MODEL	SYS	MAT'L	FINISH	SIZE	REMARKS
A	BARBER-COLMAN	PSS-V	SUPPLY	STEEL	#7	24"X24"	CEILING TYPE
B	BARBER-COLMAN	PSS-V	SUPPLY	STEEL	#7	12"X12"	"
C	BARBER-COLMAN	PES-V	RETURN	STEEL	#7	24"X24"	"
D	BARBER-COLMAN	PES-V	RETURN	STEEL	#7	12"X12"	"
E	BARBER-COLMAN	PES-V	RETURN	STEEL	#7	24"X12"	"
F	BARBER-COLMAN	GMV-V	RETURN	STEEL	#7	64"X20"	SIDEWALL TYPE
G	BARBER-COLMAN	GMV-V	RETURN	STEEL	#7	48"X14"	"
H	BARBER-COLMAN	GMV-V	RETURN	STEEL	#7	52"X14"	"
J	BARBER-COLMAN	GMA-V	SUPPLY	STEEL	#7	34"X10"	"
K	BARBER-COLMAN	GMA-V	SUPPLY	STEEL	#7	42"X16"	"
L	BARBER-COLMAN	GMV-V	RETURN	STEEL	#7	18"X20"	"
M	BARBER-COLMAN	GMV-V	RETURN	STEEL	#7	12"X6"	"
N	BARBER-COLMAN	GMV-V	RETURN	STEEL	#7	56"X18"	"
O	BARBER-COLMAN	GMV-V	RETURN	STEEL	#7	32"X20"	"

CABINET HEATER SCHEDULE

SYM	MFG'R	MODEL	HP	CFM	SIZE			GMP	MBH	RPM	REMARKS
					D	W	H				
I	TRANE	06	1/6	600	9 3/8"	63"	29 1/2"	6	60	1100	CEILING MOUNTED FULLY RECESSED

HEATING, VENTILATION & AIR CONDITIONING UNIT SCHEDULE

SYM	MFG'R	MODEL	CFM	SP	RPM	HP	MBH	COIL FACE		REMARKS
								VEL FPM	% FA	
AC-1	TRANE	M-14	7,500	3'	995	10	224	545	20	
HV-1	TRANE	M-25	14,400	2 1/2"	981	15	1,440	598	100	

NOTE:
AC-1 AND HV-1 TO BE PROVIDED WITH MIXING BOX AND OPPOSED BLADE FRESH & RETURN AIR DAMPERS BY UNIT MANUFACTURER.

ROOFTOP VENTILATOR UNIT SCHEDULE

SYM	MFG'R	MODEL	SP	AREA FT ²	CFM	THROAT VELOCITY FPM	ROOF OPENING	REMARKS
EA-1	SWARTWOUT	34X34	.066	8.0	6,200	750	34"X34"	WITH MOTOR OPERATED BACKDRAFT DAMPER & BIRDSCREEN
EA-2	SWARTWOUT	18X18	.021	2.25	975	433	18"X18"	"
FA-1	SWARTWOUT	60X60	.07	25.0	20,000	800	60"X60"	"
FA-2	SWARTWOUT	18X18	.021	2.25	600	266	18"X18"	"

EXHAUST FAN SCHEDULE

SYM	MFG'R	MODEL	AREA	CFM	S.P. H ₂ O	RPM	HP	DRIVE	ROOF OR WALL OP'NG	REMARKS
EF-1	TRANE	T-10	MECH. RM.	4,500	1 1/2"	770	3	BELT		
EF-2	SWARTWOUT	9FA-1	TOILETS	313	3/8"	1,550	1/20	DIRECT	12"X12"	LIGHT SWITCH CONTROL
EF-3	TRANE	33 B1	PIPE GALLERY	10,048	3/8"	521	2	BELT		2 SPEED
EF-4	SWARTWOUT	7FA-2	TOILET	245	1/4"	1,650	1/25	DIRECT	12"X12"	LIGHT SWITCH CONTROL
EF-5	COOLAIR	252070	TOILET	530	1/4"	3,450	1/2	DIRECT		LIGHT SWITCH CONTROL
EF-6	SWARTWOUT	18FA-3B	BOILER RM.	2,181	3/8"	993	1/3	BELT	20"X20"	
IF-7	COOLAIR	UD16H17	BOILER RM.	2,270	1/4"	1,750	1/3	DIRECT		3/4" FAN GUARD & MOTOR SHUTTER - INTAKE FAN
EF-8	CAR MON	CMB-8	GARAGE	767	2 1/2"	---	1/2	BELT		
EF-9	TRANE	9FC	GARAGE	421	3/8"	745	1/20	BELT		
EF-10	SWARTWOUT	40SA-8B	HEAT TREATMENT CONTROL ROOM	20,540	3/8"	785	7 1/2	BELT	44"X44"	2 SPEED
EF-11	SWARTWOUT	10FA-2	CONTROL ROOM	605	3/8"	1,725	1/6	DIRECT	16"X16"	
EF-12	COOLAIR	C4250R	REACTOR AREA	4,600	1/4"	370	1/2	BELT		
EF-13	COOLAIR	TD18K17	FILTER ROOM	3,650	1/2"	1,750	3/4	BELT		
EF-14	TRANE	24 B1	FILTER ROOM	6,228	3/8"	770	1 1/2	BELT		ENCAPSULATED WITH PVC
EF-15	TRANE	22FC	CONTROL ROOM	5,094	1/2"	417	1 1/2	BELT		2 SPEED
EF-16	SWARTWOUT	12FA-2	TOILET	576	3/8"	1,140	1/12	DIRECT	16"X16"	LIGHT SWITCH CONTROL
IF-17	COOLAIR	UD16H17	BOILER ROOM	2,270	1/4"	1,750	1/3	DIRECT		3/4" FAN GUARD & MOTOR SHUTTER - INTAKE FAN
EF-18	TRANE	16FC	BOILER ROOM	2,340	3/8"	485	3/4	BELT		
EF-19	TRANE	13 FC	GARAGE	1,995	3/8"	664	1/2	BELT		
EF-20	SWARTWOUT	30FA-2B	GEN. RM.	3,372	1/2"	500	1/2	BELT	36"X36"	
EF-21	SWARTWOUT	40FA-2B	GEN. RM.	7,878	1/2"	366	3/4	BELT	44"X44"	
EF-22	POWERLINE	50CFS	TOILET	110	1/4"	1,550	1/40	DIRECT	10"X4"	1/2 SPEED CONTROL SWITCH
EF-23	TRANE	15FC	EL. 34.5	2,047	3/8"	547	1/2	BELT		
EF-24	SWARTWOUT	7FA-2	TOILET	245	1/4"	1,550	1/25	DIRECT	12"X12"	
EF-25	SWARTWOUT	24WA-4B	CONTAINER ROOM	3,320	3/8"	704	1/2	BELT	28"X28"	2-SPEED ENCAPSULATED WITH P.V.C. EXPLO. PROOF
EF-26	SWARTWOUT	14WA-3B	CHLORINE ROOM	1,535	3/8"	1,493	1/4	BELT	16"X16"	"
EF-27	SWARTWOUT	18WA-1B	ELEC. ROOM	1,130	3/8"	784	1/6	BELT	20"X20"	2-SPEED ENCAPSULATED WITH P.V.C. EXPLOSION PROOF
EF-28	SWARTWOUT	18FA-4B	SLABING	2,461	1/4"	1,140	1/2	BELT	20"X20"	ENCAPSULATION WITH P.V.C.
EF-29	SWARTWOUT	40FA-6B	GEN. RM.	14,173	3/8"	581	3	BELT	44"X44"	
EF-30	SWARTWOUT	30FA-4B	PUMP RM.	6,673	3/8"	630	1	BELT	36"X36"	
EF-31	SWARTWOUT	24FA-4B	COOR.	3,172	1/2"	716	1/2	BELT	28"X28"	
IF-32	TRANE	13 FC	BASMT.	1,890	3/8"	647	1/2	BELT		INTAKE FAN

NOTE: FOR CONTINUATION OF EXHAUST FAN SCHEDULE, SEE DWG. HV-10.

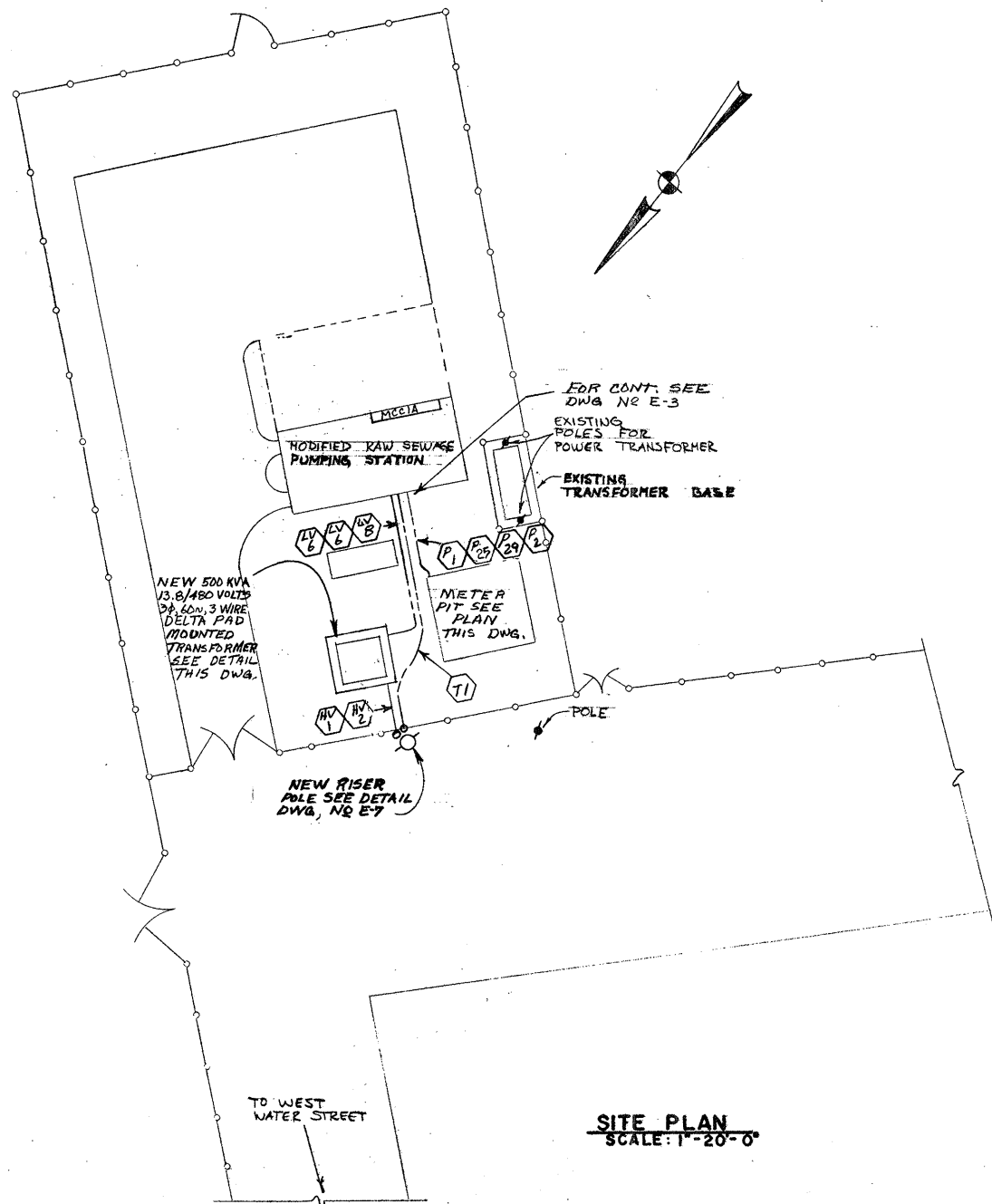
UNIT HEATER SCHEDULE

SYM	MFG'R	MODEL	HP	CFM	SIZE			GPM	MBH	RPM	REMARKS
					D	W	H				
UH-1	TRANE	90-S	1/2	1,214	21 3/8"	26 3/8"	20 1/2"	4.7	45.3	1550	
UH-2	TRANE	230-S	1/4	3,299	26 1/4"	19 3/4"	32 1/4"	13.7	133.2	1100	
UH-3	TRANE	230-S	1/4	3,299	26 1/4"	19 3/4"	32 1/4"	13.7	133.2	1100	
UH-4	TRANE	186-S	1/4	2,808	25 3/8"	33 3/8"	26 1/4"	11	103.9	1100	
UH-5	TRANE	186-S	1/4	2,808	25 3/8"	33 3/8"	26 1/4"	11	103.9	1100	
UH-6	TRANE	186-S	1/4	2,808	25 3/8"	33 3/8"	26 1/4"	11	103.9	1100	
UH-7	TRANE	186-S	1/4	2,808	25 3/8"	33 3/8"	26 1/4"	11	103.9	1100	
UH-8	TRANE	90-S	1/2	1,214	21 3/8"	26 3/8"	20 1/2"	4.7	45.3	1550	
UH-9	TRANE	186-S	1/4	2,808	25 3/8"	33 3/8"	26 1/4"	11	103.9	1100	
UH-10	TRANE	186-S	1/4	2,808	25 3/8"	33 3/8"	26 1/4"	11	103.9	1100	
UH-11	TRANE	38-S	1/30	543	15 1/4"	20 3/8"	14 1/4"	1.47	14.3	1550	
UH-12	TRANE	38-S	1/30	543	15 1/4"	20 3/8"	14 1/4"	1.47	14.3	1550	
UH-13	TRANE	38-S	1/30	543	15 1/4"	20 3/8"	14 1/4"	1.47	14.3	1550	
UH-14	TRANE	38-S	1/30	543	15 1/4"	20 3/8"	14 1/4"	1.47	14.3	1550	
UH-15	TRANE	186-S	1/4	2,808	25 3/8"	33 3/8"	26 1/4"	11	103.9	1100	
UH-16	TRANE	230-S	1/4	3,299	26 1/4"	19 3/4"	32 1/4"	13.7	133.2	1100	
UH-17	TRANE	230-S	1/4	3,299	26 1/4"	19 3/4"	32 1/4"	13.7	133.2	1100	
UH-18	TRANE	230-S	1/4	3,299	26 1/4"	19 3/4"	32 1/4"	13.7	133.2	1100	
UH-19	TRANE	168-S	1/6	836	25 3/8"	33 3/8"	26 1/4"	10.0	95.5	1100	
UH-20	CHROMALOX	LUH-04-06	1/50	310	11 5/8"	13 3/8"	16"	---	13.7	1000	4.0 KW
UH-21	TRANE	186-S	1/4	2,808	25 3/8"	33 3/8"	26 1/4"	11	103.9	1100	
UH-22	TRANE	60-S	1/20	815	20 1/8"	23 3/8"	17 1/4"	2.83	27.4	1550	
UH-23	TRANE	60-S	1/20	815	20 1/8"	23 3/8"	17 1/4"	2.83	27.4	1550	
UH-24	CHROMALOX	LUH-12-18	1/10	750	15"	17 1/4"	20 1/2"	---	42.6	1550	12.5 KW
UH-25	CHROMALOX	LUH-12-18	1/10	750	15"	17 1/4"	20 1/2"	---	42.6	1550	12.5 KW
UH-26	CHROMALOX	LUH-04-06	1/50	310	11 5/8"	13 3/8"	16"	---	13.7	1000	4.0 KW
UH-27	CHROMALOX	LUH-30-05	1/2	1,555	24 3/8"	20 1/8"	24"	---	102.3	1725	30 KW
UH-28	CHROMALOX	LUH-35-05	1/2	1,555	24 3/8"	20 1/8"	24"	---	119.5	1725	35 KW
UH-29	CHROMALOX	LUH-35-05	1/2	1,555	24 3/8"	20 1/8"	24"	---	119.5	1725	35 KW
UH-30	CHROMALOX	LUH-35-06	1/2	1,555	24 3/8"	20 1/8"	24"	---	119.5	1725	35 KW
UH-31	CHROMALOX	LUH-04-06	1/50	310	11 5/8"	13 3/8"	16"	---	13.7	1000	4.0 KW
UH-32	TRANE	90-S	1/2	1,214	21 3/8"	26 3/8"	20 1/2"	4.7	45.3	1550	
UH-33	TRANE	126-S	1/8	1,760	24 1/8"	31 1/8"	23 1/8"	7.2	69.8	1100	ENCAPSULATED WITH P.V.C. EXPLOSION PROOF
UH-34	TRANE	230-S	1/4	3,299	26 1/4"	19 3/4"	32 1/4"	13.7	133.2	1100	ENCAPSULATED WITH P.V.C. EXPLOSION PROOF

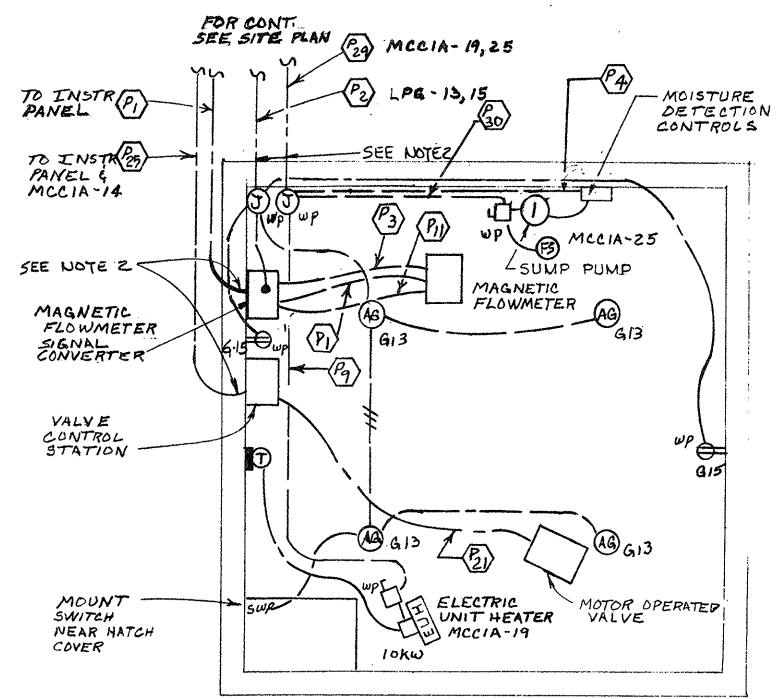
NOTE: FOR CONTINUATION OF UNIT HEATER SCHEDULE, SEE DWG. HV-10.

LEGEND

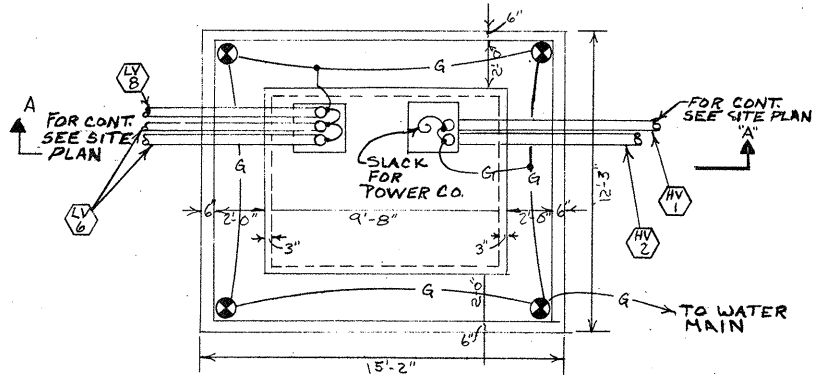
---	HOT WATER SUPPLY
---	HOT WATER RETURN
---	CHILLED WATER RETURN
---	CHILLED WATER SUPPLY
---	MOTORIZED DAMPER
---	VENT LINE
---	DRAIN LINE
---	GATE VALVE
---	GLOBE VALVE
---	CHECK VALVE
---	BALANCING COCK (POSITIVE SHUT-OFF)
---	AUTOMATIC CONTROL VALVE
---	PRESSURE REDUCING VAL



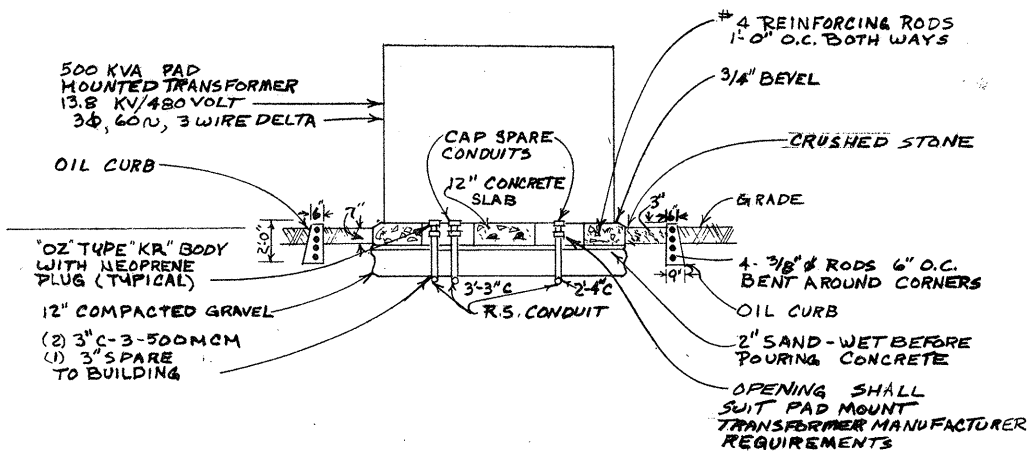
SITE PLAN
SCALE: 1"=20'-0"



METER PIT - POWER & LTG. PLAN
SCALE: 1/4"=1'-0"



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



SECTION A-A
TRANSFORMER PAD DETAIL
NOT TO SCALE

- NOTES:**
- FOR GENERAL NOTES AND LEGEND SEE DWG. NO. E-2.
 - PROVIDE OZ TYPE "WS1C" AND TYPE "GRE" SEALING FITTING.

SITE- CONDUIT & CABLE SCHEDULE

- 4" C-3/2, 15 KV CABLE
- 4" C-1/10 PULLWIRE
- 3/C-600 MCM CONTINUOUSLY WELDED ARMOR CABLE W/GROUND WIRE
- 3/C-750 MCM CONTINUOUSLY WELDED ARMOR CABLE W/GROUND WIRE
- 3/C-500 MCM CONTINUOUSLY WELDED ARMOR CABLE W/GROUND WIRE
- 3 1/2" C-3-500 MCM
- 3/C44/0 CONTINUOUSLY WELDED ARMOR CABLE W/GROUND WIRE
- 3" C-3-500 MCM
- 4" EMPTY CONDUIT - 1/10 PULLWIRE
- 3" EMPTY CONDUIT - 1/10 PULLWIRE
- 3-1/C #750 MCM 4" FIBER DUCT
- 1-19/C #12 CONTINUOUSLY WELDED ARMORED CABLE
- 1-4/C #10 CONTINUOUSLY WELDED ARMORED CABLE
- 1-37/C #12 CONTINUOUSLY WELDED ARMORED CABLE
- 1-6/C #10 CONTINUOUSLY WELDED ARMORED CABLE
- 1-6/C #6 & 10/C #14 CONTINUOUSLY WELDED ARMORED CABLE
- 1-2/C #10 CONTINUOUSLY WELDED ARMORED CABLE
- 6 PR. #22 SHIELDED CONTINUOUSLY WELDED ARMORED CABLE
- 8/C #12 CONTINUOUSLY WELDED ARMORED CABLE
- 8/C #10 CONTINUOUSLY WELDED ARMORED CABLE
- 3/4" C-2#14
- 3/4" C-4#14
- 3/4" C-6#14
- 2" C-1#14 PULLWIRE
- 3/4" C-1#14 PULLWIRE
- 8/C #6 CONTINUOUSLY WELDED ARMORED CABLE
- 2/C #10 CONTINUOUSLY WELDED ARMORED CABLE
- 3/C #10 CONTINUOUSLY WELDED ARMORED CABLE
- 4/C #10 CONTINUOUSLY WELDED ARMORED CABLE
- 20/C #19/25 CONTINUOUSLY WELDED ARMORED CABLE
- 10/C #19/25 CONTINUOUSLY WELDED ARMORED CABLE
- 20/C #14 CONTINUOUSLY WELDED ARMORED CABLE

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: F. MCKNIGHT DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Cloupsy
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

MODIFIED RAW SEWAGE PUMPING STATION
ELECTRICAL
SITE PLAN

SCALE
AS NOTED

CEM NO. 1981

DRAWING NO.
E-1

LEGEND

- FLUORESCENT LIGHT OUTLET, LETTER DENOTES FIXTURE TYPE, SEE FIXTURE SCHEDULE, SUBSCRIPT INDICATED PANEL AND CIRCUIT NUMBER.
- CEILING LIGHT OUTLET INCANDESCENT, LETTER DENOTES FIXTURE TYPE, SEE FIXTURE SCHEDULE, SUBSCRIPT INDICATED PANEL AND CIRCUIT NUMBER, SUBSCRIPT NL INDICATES NIGHT LIGHT.
- INCANDESCENT LIGHT.
- DUPLEX RECEPTACLE, 15 AMP., GROUNDED, ARROW HART CAT #5262 AND 1'-6" ABOVE FLOOR, UNLESS OTHERWISE NOTED.
- DUPLEX RECEPTACLE, EXPLOSION PROOF, CROUSE HINDS CPS-152 SERIES WITH MATCHING PLUG.
- DUPLEX RECEPTACLE, WEATHERPROOF, ARROW HART CAT#5769.
- DUPLEX WEATHERPROOF RECEPTACLE, 4'-0" ABOVE GRADE.
- SINGLE POLE SWITCH, 20 AMPERE, ARROW HART CAT #1991 AND 4'-0" ABOVE FLOOR UNLESS OTHERWISE NOTED, SUBSCRIPT INDICATES LIGHT TO BE SWITCHED.
- SINGLE POLE SWITCH, EXPLOSION PROOF.
- THREE WAY SWITCH, 20 AMPERE, ARROW HART CAT #1992.
- THREE WAY SWITCH, WEATHERPROOF.
- FOUR WAY SWITCH
- THERMAL TOGGLE SWITCH, 20 AMPERE WEATHERPROOF.
- THERMAL TOGGLE SWITCH, 20 AMPERE ARROW HART CAT #RL 21-F.
- THERMAL TOGGLE SWITCH, WITH PILOT LIGHT, WEATHERPROOF.
- LIGHTING PANEL.
- POWER PANEL.
- JUNCTION BOX.
- MOTOR, NUMERAL DENOTES HORSEPOWER
- THERMOSTAT W/INSULATING BLOCK, CHROMALOX CAT. NO. WR-66
- PRESSURE SWITCH
- PHOTO-ELECTRIC CELL
- AQUASTAT
- FLOAT SWITCH
- SOLENOID VALVE
- LIMIT SWITCH
- DISCONNECT SWITCH, NEMA I
- DISCONNECT SWITCH, EXPLOSION PROOF, NEMA VII
- DISCONNECT SWITCH, WEATHERPROOF, (STAINLESS STEEL), NEMA IV
- STOP-START PUSHBUTTON STATION WITH RED AND GREEN PILOT LIGHTS
- STOP-START PUSHBUTTON STATION WITH LOCKOUT
- STOP-START PUSHBUTTON STATION WITH LOCKOUT, EXPLOSION PROOF
- SLOW-FAST-STOP PUSHBUTTON STATION WITH RED AND GREEN PILOT LIGHT.
- STOP PUSH BUTTON STATION WITH LOCKOUT
- STOP PUSHBUTTON STATION WITH LOCKOUT, EXPLOSION PROOF
- FORWARD REVERSE PUSHBUTTON STATION
- RISER UP
- RISER DOWN
- HOME RUN TO PANELBOARD, SUBSCRIPT
- CONDUITS RUN EXPOSED
- CONDUITS RUN CONCEALED IN OR BENEATH FLOOR SLAB
- TELEPHONE OUTLET, 1" BUSHED HOLE WALL PLATE AND 1'-6" ABOVE FLOOR.
- WALL TELEPHONE OUTLET, AND 4'-0" ABOVE FLOOR
- DESK TELEPHONE OUTLET AND 1'-6" ABOVE FLOOR W/1" BUSHED HOLE WALL PLATE.
- TELEPHONE OUTLET MOUNTED IN FLOOR
- SIGNAL AND ALARM HORN, SURFACED MOUNTED
- SIGNAL AND ALARM HORN, SURFACED MOUNTED WEATHERPROOF
- MOTORIZED DAMPER
- DRINKING FOUNTAIN
- UNIT HEATER, BLOWER TYPE CHROMALOX SERIES LWA, SUBSCRIPT DENOTES KW RATING, COMPLETE WITH BUILT IN CONTACTOR & CONTROL TRANSFORMER.
- SPEAKER
- SPEAKER, EXPLOSION PROOF
- SPEAKER, WEATHERPROOF
- CLOCK - SIMPLEX 12" SIZE

LEGEND

- MAGNETIC MOTOR STARTER
- MOTORIZED DAMPER
- TEMPERATURE SWITCH
- BUS DUCT
- FIRE ALARM BOX
- FIRE ALARM HORN
- FIRE ALARM BEACON LIGHT
- FIRE DETECTOR
- SMOKE DETECTOR (DUCT TYPE)
- MASTER FIRE ALARM BOX
- REHEAT COIL
- TRANSFORMER
- CABINET HEATER
- OVERLOAD
- STOP START PUSHBUTTON WITH LOCKOUT NEMA 4 ENCLOSURE
- MAINTAINED CONTACT, STOP-START PUSHBUTTON STATION NEMA 4 ENCLOSURE
- WALL INSERT HEATER, CHROMALOX SERIES RSP, SUBSCRIPT DENOTES KW, COMPLETE WITH DISCONNECT SWITCH & BUILT IN THERMOSTAT, L@, 60 HERTZ.
- EMERGENCY LIGHTING UNIT WITH TWO HEADS.
- EXISTING LIGHTING FIXTURE TO BE DISCONNECTED & REMOVED ALONG WITH ALL ASSOCIATED SWITCHES CONDUIT & WIRE. PROVIDE BLANK COVER AND/OR CANOPY.
- EXISTING MOTOR TO BE DISCONNECTED & REMOVED ALONG WITH ALL ASSOCIATED CONDUIT & WIRES
- TERMINAL BOX RUSSELL & STOLL SERIES "TBC" WITH REQUIRED NUMBER OF TERMINALS, WEATHERPROOF.
- PLUGMOLD, 15 AMP. OUTLETS, 12 INCHES ON CENTER
- SINGLE RECEPTACLE, 208 VOLTS, SINGLE PHASE
- 3/4" x 10'-0" COPPERWELD GROUND PAD #4/0 SOFT DRAWN BARE COPPER.
- EXISTING WOOD POLE
- NEW WOOD POLE
- RACEWAY SEE CONDUIT AND CABLE SCHEDULE.
- GROUND TO WATER MAIN SUBSCRIPT INDICATES AMG SIZE
- SPEED CONTROL SWITCH
- TIMER
- DIRECT BURIAL CABLE
- HIGH MAST LIGHTING STANDARD/80 FOOT W/6-1000 WATT HOLOPHANE LUMINAIRES AND NY-1000 TC/BHU MULTI VAPOR 100,000 LUMEN LAMPS #HMS-80-6-LD2-7-1119 (4590, 4591, 4593) 120-MS-SPH-LDJ-120
 - 2 - CATALOG #4593-120 SPH-ASYMMETRICAL
 - 2 - CATALOG #4591-120 SPH-TYPE I
 - 2 - CATALOG #4590-120 SPH-SYMMETRICAL
- POLE MOUNTED LIGHTING STANDARD LUMINAIRE TO BE WESTINGHOUSE COLONY LUMINAIRE MODEL NO. 5 #7258854615 W/175 WATT MERCURY LAMP. POLE TO BE HEXAGONAL CONCRETE 12" HIGH LIGHTING CONCEPT MADE 1 #HX-12C88-120-CPT

NOTES:

1. PROVIDE WITH 175 WATT QUARTZ EMERGENCY LAMP. SEE DIAGRAM DWG. NO. E-12
2. PROVIDE WITH 250 WATT QUARTZ EMERGENCY LAMP. SEE DIAGRAM DWG. NO. E-12
3. WITH PHCB POWER HOOK ASSEMBLY

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	NO. OF LAMPS	LAMP TYPE	LAMP LUMENS	MOUNTING HEIGHT	SEE NOTE	ALTERNATE
A	HOLOPHANE	7250-04-L1	4	F40CW	3200	RECESSED		LPI-24-F-R-4-40-7250
B	HOLOPHANE	7250-02-L1	2	F40CW	3200	RECESSED		LPI-24F-R-2-40-7250
C	HOLOPHANE	7200-4-P2	2	F40CW	3200	12'-0"		BENJAMIN FV-2324-4-P2
D	HOLOPHANE	7200-4-P2	2	F40CW	3200	10'-0"		BENJAMIN FV-2324-4-P2
E	LITE CONTROL	MR9322URS-6251	2	F40/CW U LAMP	2950	RECESSED		BENJAMIN GRU-7624-2GM-6250
F	HOLOPHANE	7200-4	2	F40CW	3200	12'-0" AFF		BENJAMIN FV-2324-4
G	HOLOPHANE	02420	1	A25IF 300 WATT	6000	12'-0"		CROUSE HINDS EVA-2329
H	HOLOPHANE	7150-02-L1	2	F40CW	3200	RECESSED		LPI-14F-R2-40-7150
K	HOLOPHANE	7200-4	2	F40CW	3200	SURFACE		BENJAMIN FV-2324-4
L	HOLOPHANE	304-120-ELB	1	H-35 175 WATT	8500	12'-0" AFF		ABOLITE AC-120-LMSPU-175-15
M	HOLOPHANE	307-120-ELB	1	H-37-5KC/WX 250 WATT	12,000	16'-0"		ABOLITE AC-120-LMSPU-250-15
N	HOLOPHANE	307-120-ELB	1	H-37-5KC/WX 250 WATT	12,000	14'-0"		ABOLITE AC-120-LMSPU-250-15
P	HOLOPHANE	304-120-ELB	1	H-35 175 WATT	8500	12'-0" AFF		ABOLITE AC-120-LMSPU-175-15
Q	HOLOPHANE	307-120-ELB	1	H-37-5KC/WX 250 WATT	12,000	16'-0"	2	ABOLITE AC-120-LMSPU-250-15
R	HOLOPHANE	307-120-ELB	1	H-37-5KC/WX 250 WATT	12,000	14'-0"	2	ABOLITE AC-120-LMSPU-250-15
S	HOLOPHANE	307-120-ELB	1	H-37-5KC/WX 250 WATT	12,000	18'-0"		ABOLITE AC-120-LMSPU-250-15
Y	HOLOPHANE	02420	1	A25IF 200 WATT	3,800	10'-6"		CROUSE HINDS EVA-2329
U	HOLOPHANE	02420	1	P530 300 WATT	6,000	11'-0"		CROUSE HINDS EVA-2329
V	HOLOPHANE	307-120-ELB	1	H33/LG/LC 400	21,000	28'-0"		ABOLITE AC-120-LMSPU-415
M	HOLOPHANE	408	1	A25IF 100 WATT	3800	1'-0"		DEVINE B250-G-BA
X	MCPHILBEN	6M-23-MS	1	R-40		7'-6"		DEVINE B611-1LM
Y	HOLOPHANE	408	1	A-25IF 200 WATT	3800	11'-0"		DEVINE B250-G-BA
Z	HOLOPHANE	72506201	2	F40/CW U LAMP	3200	RECESSED		LPI-24F-R2-40-7250
AA	HOLOPHANE	307-120-ELB	1	250 WATT	12,000	14'-6"	3	ABOLITE
AB	HOLOPHANE	307-120-ELB	1	250 WATT	12,000	14'-6"	2,3	ABOLITE
AC	CROUSE-HINDS	EVA-2329	1	300 WATT P530	3940	14'-6"		APPLETON
AD	CROUSE-HINDS	EVBX210	1	200 WATT P530	2850	9'-0"		APPLETON
AE	HOLOPHANE	408-0107B	1	A25IF 200 WATT	3800	9'-0"		DEVINE B250-G-BA
AF	PORCLEIR	ARROW 860	1	200 WATT	2850	CEILING		BRYANT
AG	CROUSE HINDS	VXHF226P	1	200 WATT P530	2850	CEILING		APPLETON
AH	CROUSE HINDS	EVBX220	1	P530 300 WATT	3940	9'-0"		APPLETON
AJ	HOLDCAST	A-270	1	A-21 150 W	2230	RECESSED		KIRLIN-1804-555-B
AK	LITECONTROL	MR9344RS 6251	4	F40/CW	3200	RECESSED		HOLOPHANE
AN	CROUSE-HINDS	EVA-2320	1	300 WATT P530	3940	16'-0"		APPLETON
AM	PERFECLITE	VC-51-8D	1	A/99 100 WATT	1490	9'-0"		MCPHILBEN 66-10YT-B-G
AP	HOLOPHANE	307-120-ELB	1	H33/LG/LC 400	21,000	28'-0"	2	ABOLITE AC-120-LMSPU-415
AX	PERFECLITE	P343	4	C7	-	WALL		HOLDCAST 712-62
AX1	PERFECLITE	P353	4	C7	-	PENDENT		HOLDCAST 710-62-P12
AX2	PERFECLITE	P352	4	C7	-	PENDENT		HOLDCAST 710-62-P12

GENERAL NOTES:

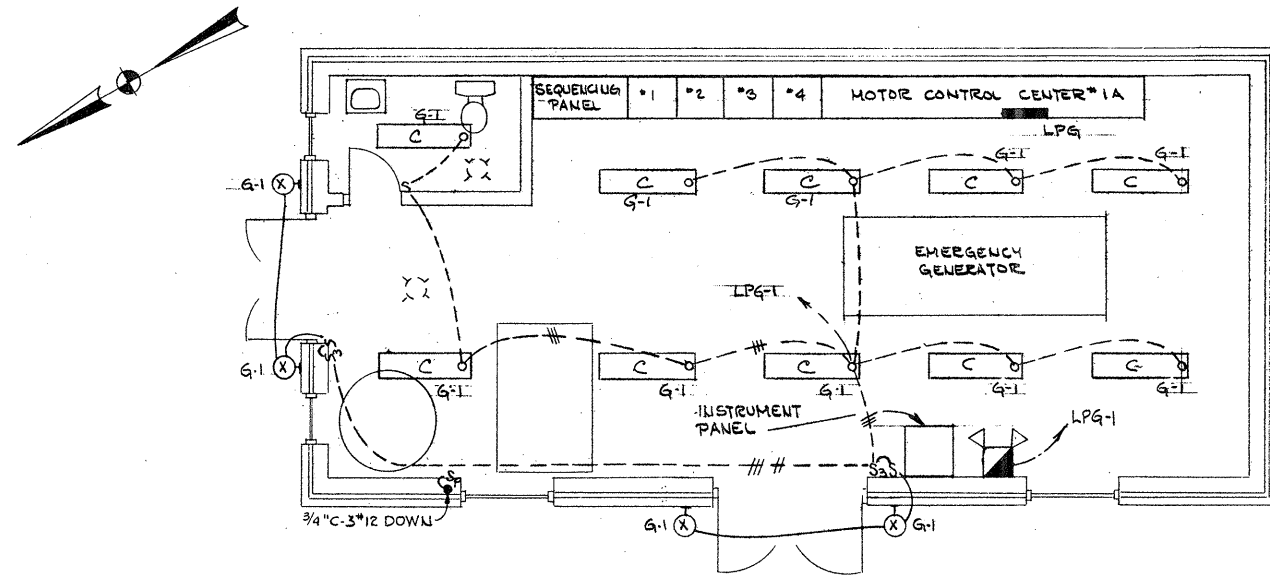
1. WHERE CONDUIT IS NOT IDENTIFIED IT SHALL BE 3/4" RIGID STEEL THREADED NOMINAL SIZE, WITH 2 WIRES, SIZED AS INDICATED IN THE PANEL SCHEDULE.
2. WIRING IN ROOMS AND BUILDINGS LABELED "HAZARDOUS AREA" SHALL BE IN ACCORDANCE WITH ARTICLE 500, FOR CLASS I DIVISION I LOCATIONS, OF THE NATIONAL ELECTRIC CODE.
3. FOR EXACT LOCATIONS OF HEATING AND VENTILATING EQUIPMENT. SEE MECHANICAL DRAWINGS.
4. ADDITIONAL JUNCTION BOXES SHALL BE INSTALLED WHERE REQUIRED.
5. ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE NOTED.
6. WHERE EXISTING EQUIPMENT IS TO BE REMOVED, ALL ASSOCIATED CONDUIT AND WIRE SHALL BE EITHER ABANDONED OR REMOVED UNLESS OTHERWISE NOTED.
7. ALL DIRECT BURIAL CABLE LEAVING BUILDINGS SHALL BE SEALED AS INDICATED IN APPLICABLE DETAIL. SEE TYPICAL SEALING DETAIL, DWG. NO.
8. AVOID PIPING AND DUCTWORK IN ALL AREAS WHERE EXPOSED CONDUITS ARE BEING USED.
9. ALL LIGHTING FIXTURES SHALL BE LOCATED TO AVOID ANY PIPING IN THE AREA BEING SERVED.
10. ALL WORK SHALL BE NEW UNLESS NOTED OTHERWISE.
11. FOR CIRCUITS WITH COMMON NEUTRAL, PROVIDE LARGEST NEUTRAL SIZE.

CONDUIT AND CABLE SCHEDULE

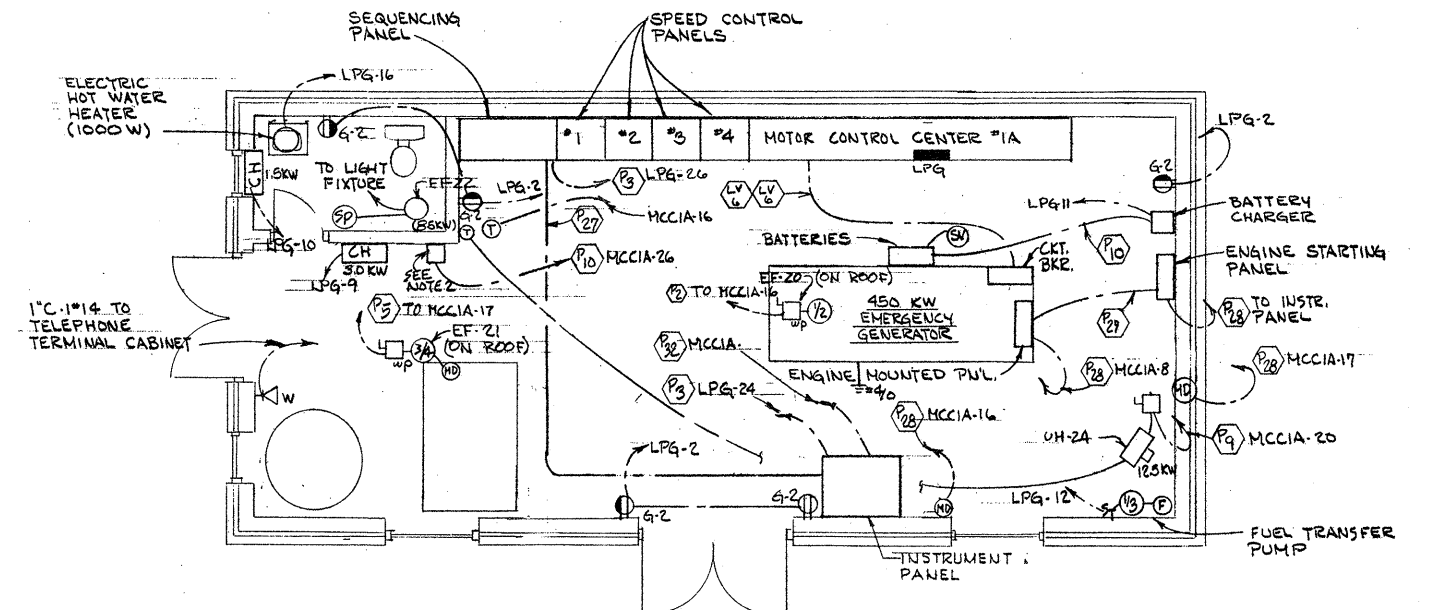
P1	3/4"C-2#12	P29	1 1/4"C-3#10 & 1#12
P2	3/4"C-3#12	P30	3/4"C-5#12
P3	3/4"C-4#12	P31	1"C-3#12 & 6#14
P4	3/4"C-6#12	P32	1 1/2"C-30#14
P5	3/4"C-8#12	P33	1"C-6#12 & 2 #14
P6	1"C-9#12	P34	1"C-7#12
P7	1"C-12#12	P35	1 1/4"C- 1#12 PULL WIRE
P8	1 1/4"C-14#12	P36	3/4"C-1 #12 PULLWIRE
P9	3/4"C-3#10	P37	3"C-3 #500 MCM & 4 #14
P10	3/4"C-3#8	P38	1 1/4"C-3#8 & 4#14
P11	3/4"C-2 SHIELDED PAIR	P39	1 1/4"C-3#6 & 3 #14
P12	2"C-3#4/0	P40	1"C-3#6 & 2#14
P13	1"C-3#12 & 4#14	P41	3/4"C-3#12 & 2#14
P14	1 1/4"C-3#8 & 4#14	P42	1 1/2"C-4#1
P15	1 1/4"C-3#3	P43	3"C-4#300 MCM
P16	1 1/4"C-3#4	P44	2 1/2"C-3#1
P17	1"C-3#6	P45	1"C-7#12 & 2 #14
P18	2"C-4#2	P46	1"C-6#14
P19	3/4"C-4#14	P47	1"C-14#14
P20	1 1/2"C-3#6 & 6 #14	P48	3/4"C-2#14
P21	1 1/4"C-6#12 & 6#14	P49	1 1/2"C-2#14
P22	2"C-6#12 & 16#14	P50	1 1/4"C-20#14
P23	2"C-4#2/0	P51	1"C-WITH TACHOMETER GENERATOR CABLE
P24	2"C-5#14	P52	1 1/4"C-6#12 & 16#14
P25	1 1/4"C-18#12	P53	1"C-1#10 & 14#14
P26	3/4"C-8#14	P54	1 1/2"C-1 #10, 6#12 & 24 #14
P27	1"C-16#14	P55	1"C-3#6 & 1 #10 GROUND
P28	3/4"C-6#14	P56	1 1/4"C-3#6, 4#14 & 1 #10 GROUND
P29	2 1/2"C - 4 #250 MCM	P57	1" - 6 #10 & 6#14
P30	3"C - 3 #360 MCM	P58	1 1/4"C - 3 #2
P31	2"C - 4 #1/0		
P32	1 1/2"C - 4 #1		

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

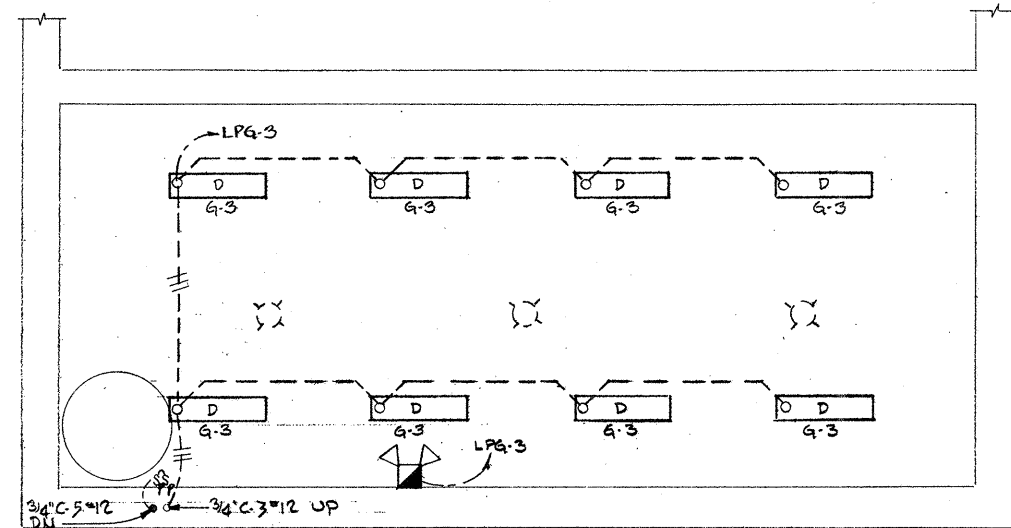
DRAWN: R. BURMAN				DESIGNED: A. CLOUSPY				CITY OF TAUNTON, MASSACHUSETTS				SCALE			
CHECKED: G. GACHOWSKI				APPROVED: J. LITTLEJOHN				WASTEWATER TREATMENT FACILITY				NO SCALE			
DATE: JULY, 1974								ADDITIONS & IMPROVEMENTS				CEM NO. 1981			
CE MAGUIRE, INC.				ARCHITECTS • ENGINEERS • PLANNERS				ELECTRICAL				DRAWING NO.			
PROVIDENCE, R.I.				WETHERSFIELD, CONN. WALTHAM, MASS.				GENERAL NOTES & LEGEND				E-2			



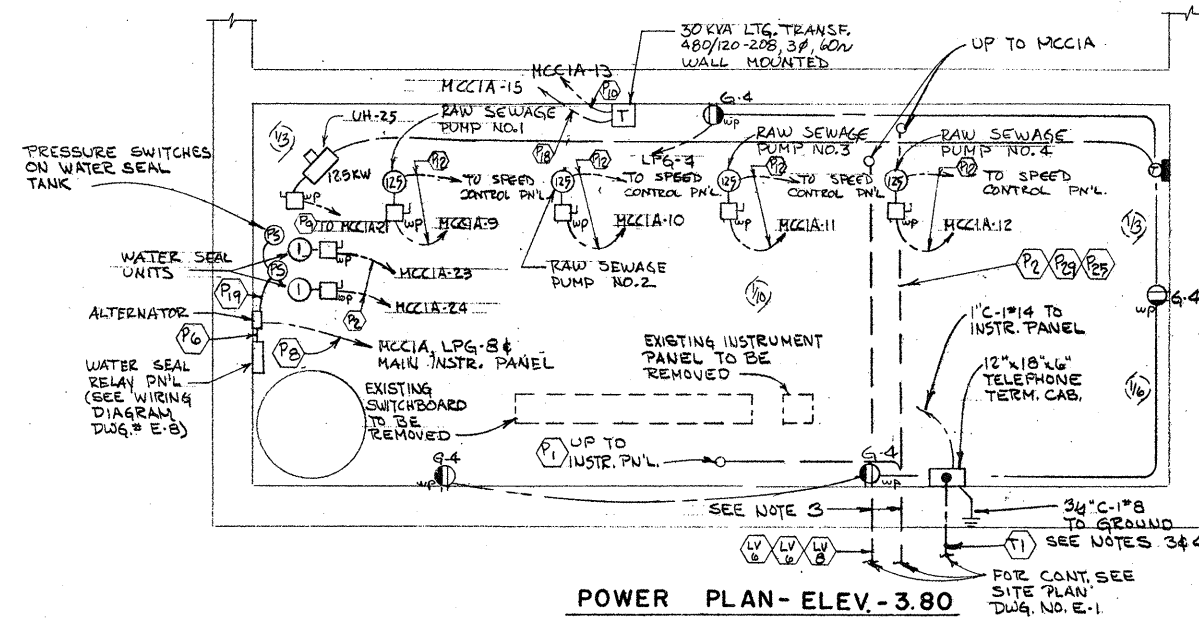
LIGHTING PLAN - ELEV. 11.20



POWER PLAN - ELEV. 11.20



LIGHTING PLAN - ELEV. - 3.80



POWER PLAN - ELEV. - 3.80

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

NOTES:

1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
2. EXISTING SLUICE GATE STARTER TO REMAIN REMOVE EXISTING FEEDER & PROVIDE NEW CONDUIT & CABLE.
3. PROVIDE "QZ" TYPE "WSK" SEALING FITTING.
4. PROVIDE "QZ" TYPE "GRE" SEALING FITTING.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. CALIGIURI DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

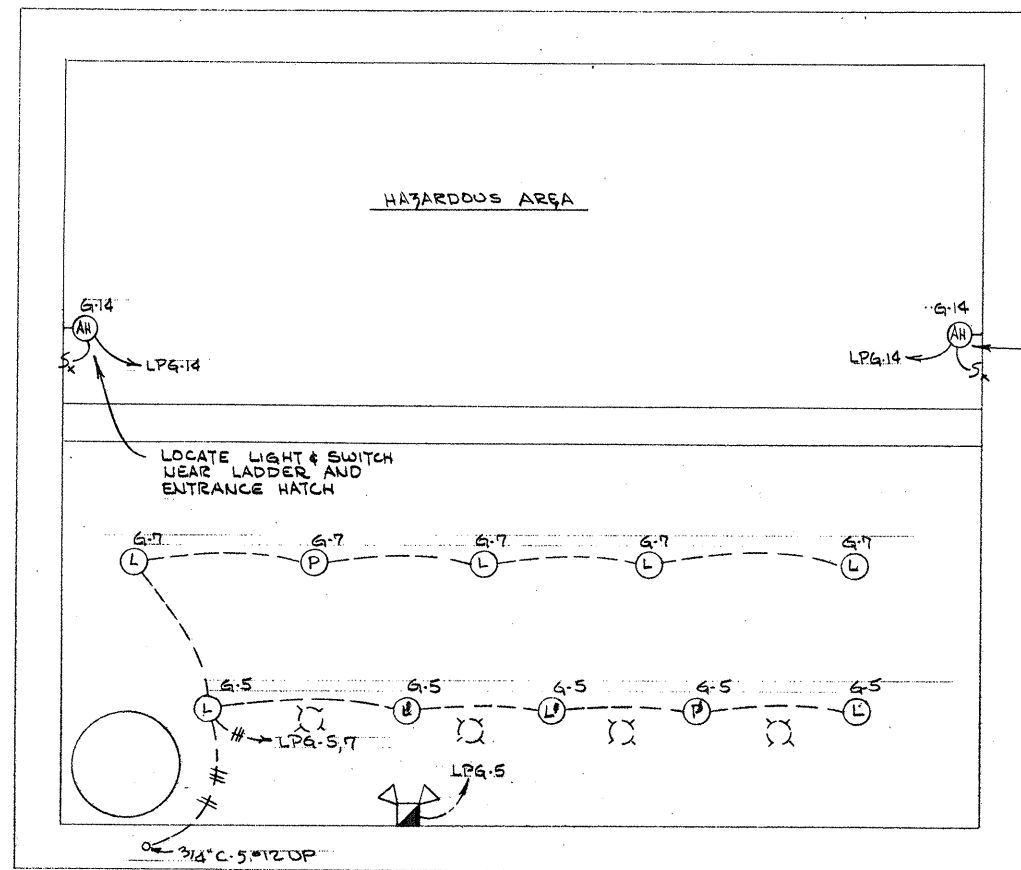
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. P...
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

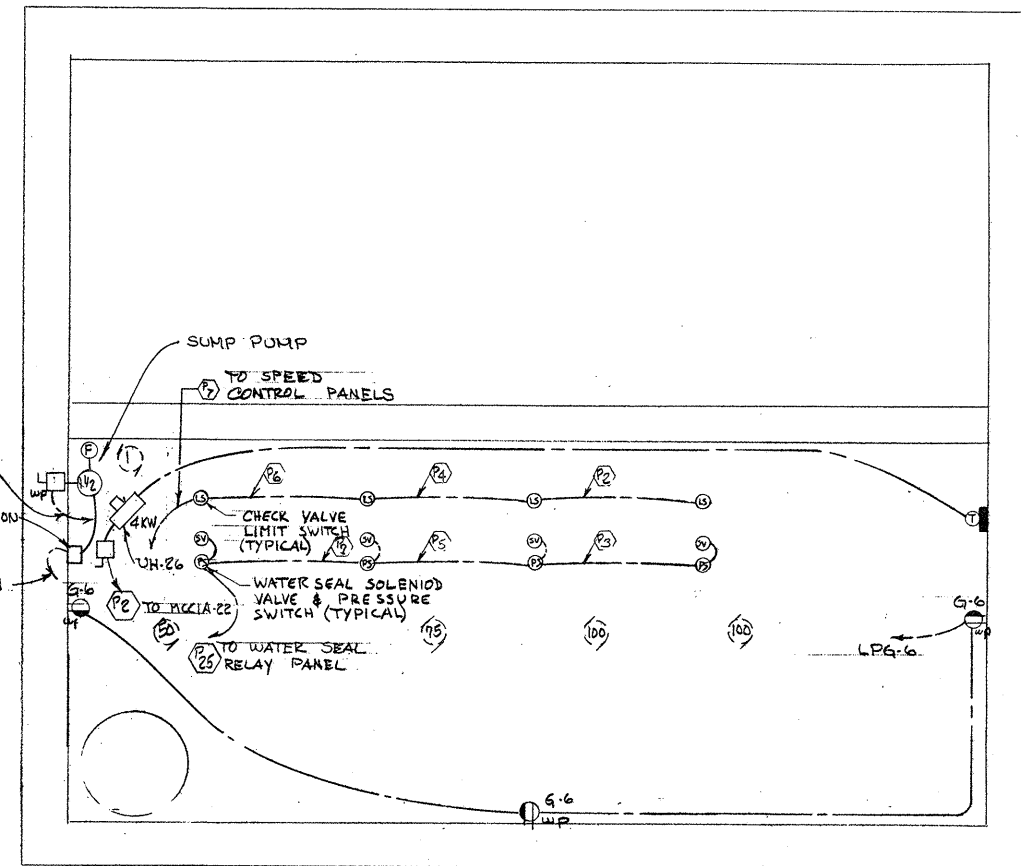
MODIFIED RAW SEWAGE PUMPING STATION
ELECTRICAL
 ELEV. 11.20 & 3.80
POWER AND LIGHTING

SCALE
 1/4" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
E-3



LIGHTING PLAN - ELEV. -19.30
SCALE: 1/4" = 1'-0"

LOCATE LIGHT & SWITCH NEAR LADDER & ENTRANCE HATCH



POWER PLAN - ELEV. -19.30
SCALE: 1/4" = 1'-0"

Lighting PANEL LPG 120/208 VOLT 3 PHASE 4 WIRE - SOLID NEUTRAL 225 AMP. MAIN Breaker Lugs Only LOCATION Raw Sewage Pumping Station MOUNTING Motor Control Center 1A											
CIRCUIT NO.	BRKR.	Fuses Frame Trip	DESCRIPTION	HORSE POWER	K.W.	AMP.			WIRE SIZE	REMARKS	
						AS	BS	CS			
1	1A	20	Generator Rm. Lighting		1.320	11.3			12		
2	1	20	Generator Rm. Receptacles		1.800	15.0			12		
3	1	20	Control Rm. Lighting		.736		6.4		12		
4	1	20	Control Rm. Receptacles		1.440		12.0		12		
5	1	20	Pump Rm. - Lighting		.875		7.3		12		
6	1	20	Pump Rm. - Receptacles		1.080		9.0		12		
7	1	20	Pump Rm. - Lighting		.875	7.3			12		
8	1	20	Water Seal Relay Panel		.480	4.0			12		
9	2	20	Electric Unit Heater		3.000		14.4	14.4	12		
10	2	20	Electric Unit Heater		1.500		7.2	7.2	12		
11	1	20	Battery Charger		.120		1.0	1.0	12	Provide Lockout	
12	1	20	Fuel Transfer Pump		1/3		7.2	7.2	12	Provide Lockout	
13	1	20	Lighting Meter Pit		.800	6.66			12		
14	1	20	Wet Well Lighting		.600	5.0			12		
15	1	20	Mag. Meter & Receptacles		1.080		9.0		12		
16	1	20	Hot Water Heater		1.000		8.33		12		
17	1	20	Spare								
18	1	20	Spare								
19	1	20	Spare								
20	1	20	Spare								
21	1	20	Spare								
22	1	20	Spare								
23	1	20	Spare								
24	3	20	Instr. Panel		10.0	10.0	10.0		12	Provide Lockout	
25	3	20	Instr. Panel		10.0	10.0	10.0		12	Provide Lockout	
26	3	20	Sequencing Panel		15.0	15.0	15.0		12	Provide Lockout	
TOTALS						84.3	84.3	84.3			

PANEL LPA 120/208 VOLT 3 PHASE 4 WIRE - SOLID NEUTRAL 150 AMP. MAIN Breaker LOCATION Operations Building MOUNTING MCC1											
CIRCUIT NO.	BRKR.	Fuses Frame Trip	DESCRIPTION	HORSE POWER	K.W.	AMP.			WIRE SIZE	REMARKS	
						AS	BS	CS			
1	1	20	Control Rm. - Lighting		1.104	9.6			12		
2	1	20	Corridor - Lighting		1.000	8.3			12		
3	1	20	Chem Lab - Lighting		1.472		12.2		12		
4	1	20	Office - Lighting		1.028		8.5		12		
5	1	20	Mech. Rm. - Lighting		.800		6.7		12		
6	1	20	Control Rm. Recept.		1.080		9.0		12		
7	1	20	Office - Recept.		1.800	15.0			12		
8	1	20	West Room - Recept.		1.080	9.0			12		
9	1	20	EF-4 #UH-1		1/25, 1/12		3.3		12		
10	1	20	Lab Receptacles		1.440		12.0		12		
11	1	20	Lab Receptacles		1.080		9.0		12		
12	1	20	Spare								
13	1	20	Lab Receptacles		1.440	12.0			12		
14	1	20	Scanner Relays		.480	4.0			12		
15	1	20	Spare								
16	1	20	Spare								
17	1	20	IF-33		1/4		5.8		12		
18	1	20	Spare								
19	1	20	Reheat Coils		.240	2.0			12		
20	1	20	Water Seal Alternator		.480	4.0			12	Cesspool Pump Pit	
21	1	20	Ltg. Cesspool Pump Pit		.760		7.1		12		
22	1	20	Spare								
23	1	20	Spare								
24	1	20	Spare								
25	2	20	Still & Iron Cathode		2.000	10.0	10.0		12		
26	2	20	Lab Receptacles		2.000		10.0	10.0	12		
27	2	20	Fume Hood		1.400	7.0			12		
28	2	20	Furnace		2.000		10.0	10.0	12		
29	3	20	Exterior Lighting		13.600	35.0	35.0	35.0	12		
30	1	20	Site Lighting		17.500	8.4	8.4	8.4	10		
TOTALS					82.776	82.3	116.8	102.9			

PANEL LPAe 120/208 VOLT 3 PHASE 4 WIRE - SOLID NEUTRAL 225 AMP. MAIN Breaker LOCATION Operations Building Pipe Gallery MOUNTING Surface											
CIRCUIT NO.	BRKR.	Fuses Frame Trip	DESCRIPTION	HORSE POWER	K.W.	AMP.			WIRE SIZE	REMARKS	
						AS	BS	CS			
1	1	20	Gallery - Lighting		1.425	11.9			12		
2	1	20	Gallery - Lighting		1.340	11.1			12		
3	1	20	Gallery - Lighting		1.425		11.9		12		
4	1	20	Gallery - Lighting		1.140		9.5		12		
5	1	20	Gallery - Lighting		1.236			10.0	12		
6	1	20	Gallery - Lighting		1.140		9.5		12		
7	1	20	Gallery - Lighting		.668	5.57			12		
8	1	20	Gallery - Receptacles		1.800	15.0			12		
9	1	20	Gallery - Receptacles		1.800		15.0		12		
10	1	20	Unit Heaters 2 & 3 1/4, 1/4				11.6		12		
11	1	20	Unit Heaters 4 & 5 1/4, 1/4				11.6		12		
12	1	20	UH-6		1/4			5.8	12		
13	1	20	Unit Heater - 7		1/4		5.8		12		
14	1	20	IF-7		1/3		7.2		12		
15	1	20	Boiler Controls		1/4		5.8		12		
16	1	20	Temperature Control Pn 1		.480		4.0		12		
17	1	20	Magnetic Flowmeter		.480			4.0	12		
18	1	20	Outdoor Lighting		1.000			8.33	12		
19	1	20	Water Seal Pump Controls		.240	2.0			12		
20	1	20	Automatic Samplers		.960	8.0			12		
21	1	20	Hot Water Circulator		1/8		3.0		12		
22	1	20	Gallery - Receptacles		1.080		9.0		12		
23	1	20	Boiler Rm. - Receptacles		1.080			9.0	12		
24	1	20	Boiler Rm. - Lighting		1.500			12.5	12		
25	1	20	Spare								
26	1	20	Spare								
27	1	20	Spare								
28	1	20	Spare								
29	1	20	Spare								
30	1	20	Spare								
TOTALS					66.57	69.8	70.73				

NOTES:

1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



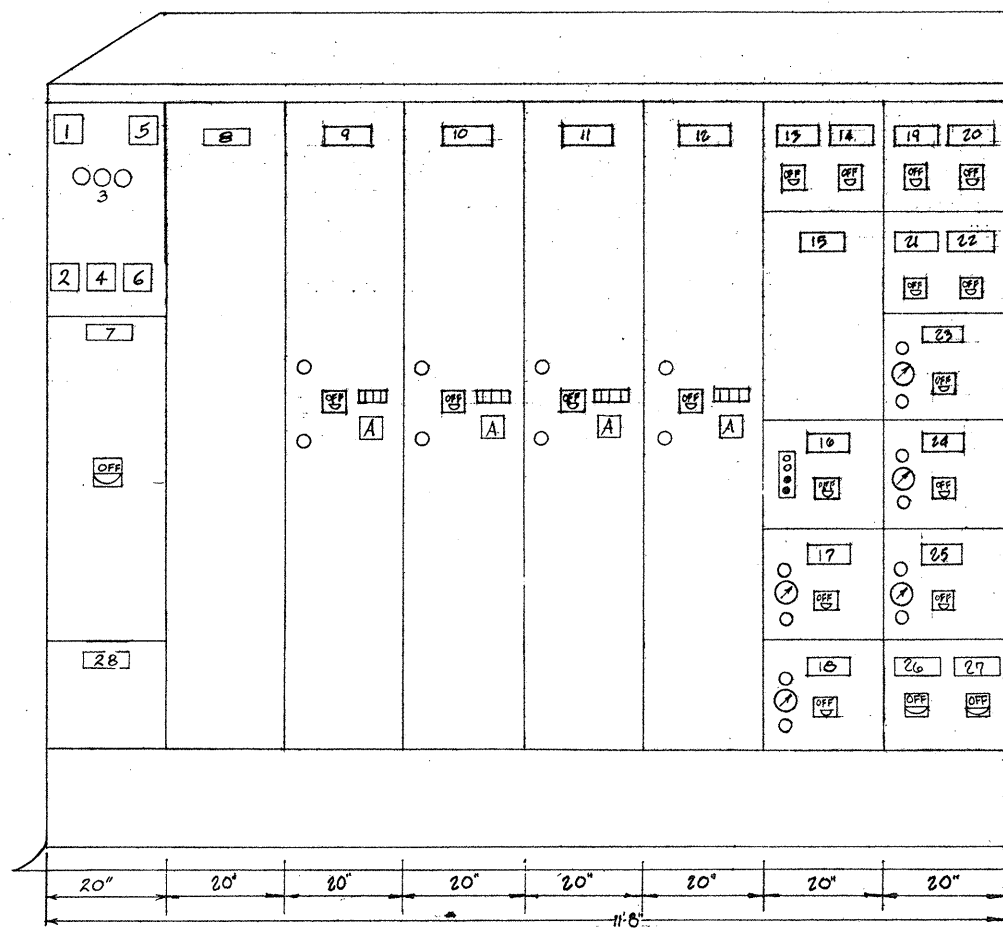
DRAWN: T. KARAS DESIGNED: A. CLOUSPY
CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
DATE: JULY, 1974

CE MAGUIRE, INC.
ARCHITECTS • ENGINEERS • PLANNERS
PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
CITY OF TAUNTON

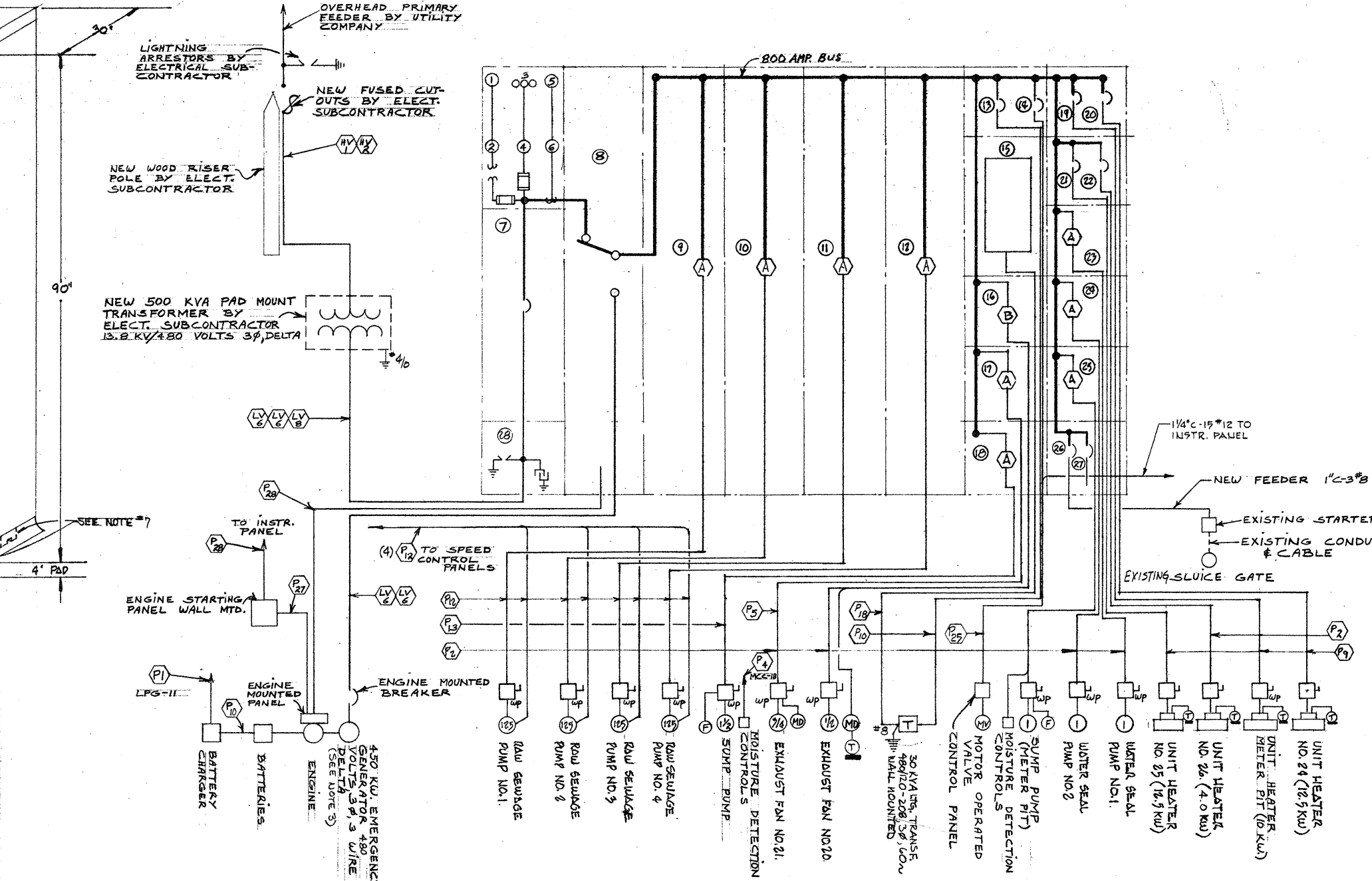
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
MODIFIED RAW SEWAGE PUMPING STATION
ELECTRICAL
ELEVATION -19.30
POWER AND LIGHTING

SCALE
AS NOTED
CEM NO. 1981
DRAWING NO.
E-4



MOTOR CONTROL CENTER NO. 1A - ELEVATION

MOTOR CONTROL CENTER SCHEDULE											
MCC-1A						MODIFIED RAW SEWAGE PUMP. STA.					
PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS NO. SIZE	START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
1	0-600	-	-	-	120	-	-	-	VOLTMETER		
2	-	-	-	-	120	-	-	-	VOLTMETER SWITCH		
3	-	-	-	-	480	-	-	-	GROUND DETECTOR LAMPS		
4	-	-	-	-	480	-	-	-	GROUND DETECTOR SWITCH		
5	0-800	-	-	-	-	-	-	-	AMMETER		
6	-	-	-	-	-	-	-	-	AMMETER SWITCH		
7	1200	800	35,000	3	480	6 500 MCM	-	-	MAIN SECONDARY BREAKER		
8	800	-	-	-	-	-	-	-	AUTOMATIC TRANSFER SWITCH	17	
9	225	225	22,000	3	480	3 4/0	5	125	RAW SEWAGE PUMP NO. 1	4,6,8, 2,13	
10	225	225	22,000	3	480	3 4/0	5	125	RAW SEWAGE PUMP NO. 2	4,6,8, 2,13	
11	225	225	22,000	3	480	3 4/0	5	125	RAW SEWAGE PUMP NO. 3	4,6,8, 2,13	
12	225	225	22,000	3	480	3 4/0	5	125	RAW SEWAGE PUMP NO. 4	4,6,8, 2,13	
13	100	50	14,000	3	480	3 8	-	-	LIGHTING TRANSFORMER		
14	100	15	14,000	3	480	3 12	-	-	MOTOR OPERATED VALVE		
15	-	-	-	-	-	-	-	-	LIGHTING PANEL		
16	100	15	14,000	3	480	3 12	1	1/2	EXHAUST FAN NO. 20	3,8	
17	100	15	14,000	3	480	3 12	1	3/4	EXHAUST FAN NO. 21	2,8	
18	100	20	14,000	3	480	3 12	1	1-1/2	SUMP PUMP	2,8	
19	100	20	14,000	3	480	3 10	-	-	ELECTRIC UNIT HEATER 10.0 KW		



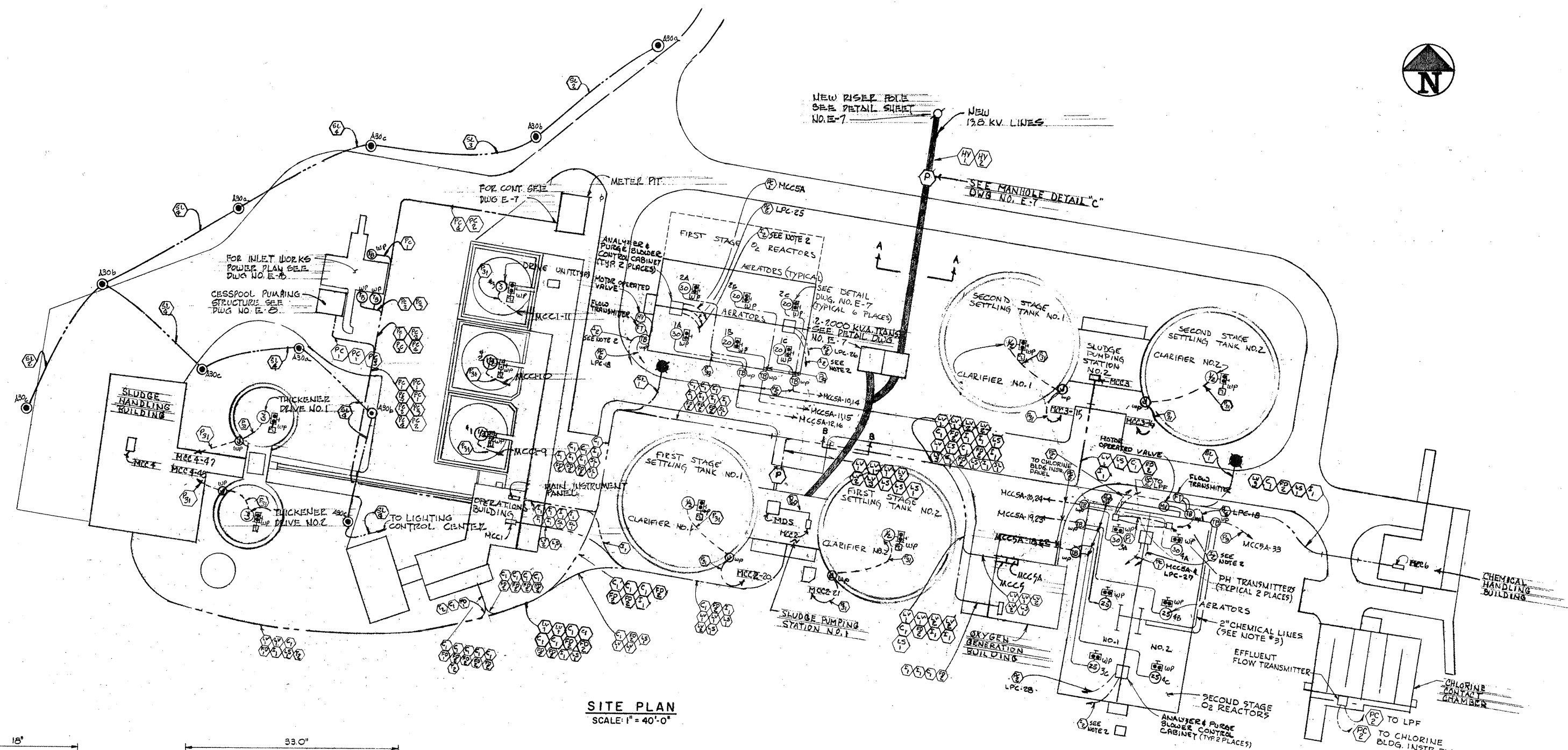
MOTOR CONTROL CENTER NO. 1A - SINGLE LINE DIAGRAM

MOTOR CONTROL CENTER SCHEDULE											
PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS NO. SIZE	START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
20	100	30	14,000	3	480	3 10	-	-	UNIT HEATER NO. 24	12.5 KW	
21	100	30	14,000	3	480	3 10	-	-	UNIT HEATER NO. 25	12.5 KW	
22	100	20	14,000	3	480	3 12	-	-	UNIT HEATER NO. 26	4.0 KW	
23	100	15	14,000	3	480	3 12	1	1	WATER SEAL PUMP NO. 1		2,8,13
24	100	15	14,000	3	480	3 12	1	1	WATER SEAL PUMP NO. 2		2,8,13
25	100	15	14,000	3	480	3 12	1	1	SUMP PUMP		2,8
26	100	30	14,000	3	480	3 8	-	-	SLUICE GATE		
27	100	30	14,000	3	480	3 12	-	-	SPARE		
28	-	-	-	-	-	-	-	-	LIGHTNING & SURGE PROTECTION		

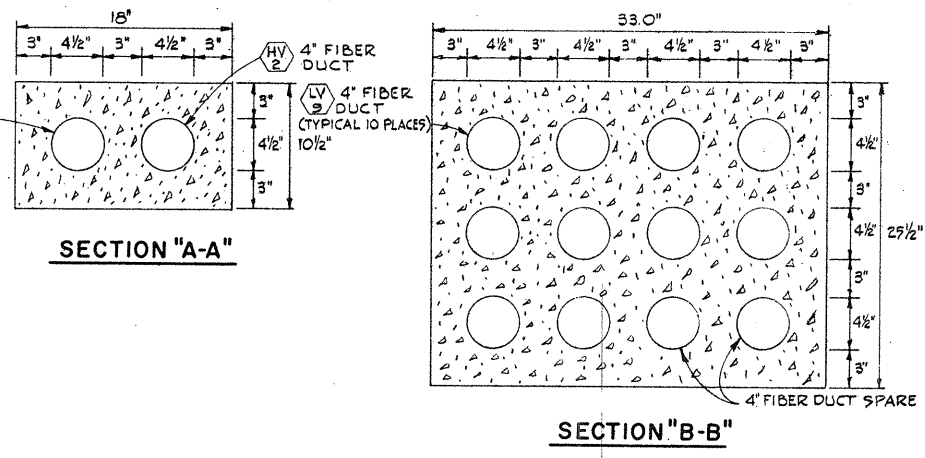
- NOTES:
- FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
 - FOR MOTOR CONTROL CENTER NOTES SEE DWG. NO. E-25.
 - GENERATOR SHALL BE RATED 450 KW, FOR CONTINUOUS STANDBY DUTY, 562.5 KVA, 480 VOLT, 3 Ø, 60 HZ., DELTA MOUND.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

DRAWN: F. MCKNIGHT DESIGNED: A. CLOUSPY CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN DATE: JULY, 1974				CITY OF TAUNTON, MASSACHUSETTS WASTEWATER TREATMENT FACILITY ADDITIONS & IMPROVEMENTS				SCALE CEM NO.	
				CE MAGUIRE, INC. ARCHITECTS - ENGINEERS - PLANNERS PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.				APPROVED 	
MODIFIED RAW SEWAGE PUMPING STATION MOTOR CONTROL CENTER NO. 1A				DRAWING NO. E-5					

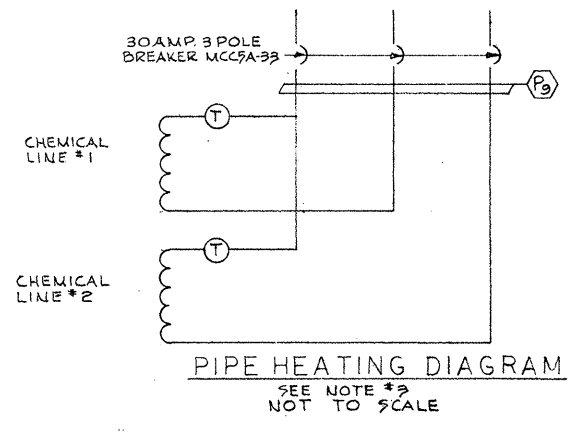


SITE PLAN
SCALE: 1" = 40'-0"



SECTION "A-A"

SECTION "B-B"



- NOTES:**
- FOR GENERAL NOTES & LEGEND SEE DWG NO. E-2.
 - ROUTE TO DISSOLUTION INSTRUMENT PANEL IN OXYGEN GENERATION BUILDING
 - PROVIDE MINERAL INSULATED (TYPE MI) TRACING CABLE OF EITHER SINGLE OR DUAL CONDUCTOR TO PROVIDE FREEZE PROTECTION AT (-10°F) AMBIENT CONDITIONS; PIPES TO HAVE 1/2" INSULATION. CABLES TO BE FACTORY FABRICATED OF THE PROPER LENGTH FOR EACH INSTALLATION. EACH CABLE TO BE THERMOSTATICALLY CONTROLLED WITH A BULB CAPILLARY WEATHERTIGHT THERMOSTAT. INSTALLATION TO BE MADE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS; CABLES TO BE TESTED PRIOR, DURING & AFTER INSTALLATION TO INSURE IT HAS NOT BEEN DAMAGED DURING INSTALLATION.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: T. KARAS DESIGNED: A. CLOUSPY
 CHECKED: J. LITTLEJOHN APPROVED: W. HUNDLEY
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Pury
 CITY OF TAUNTON

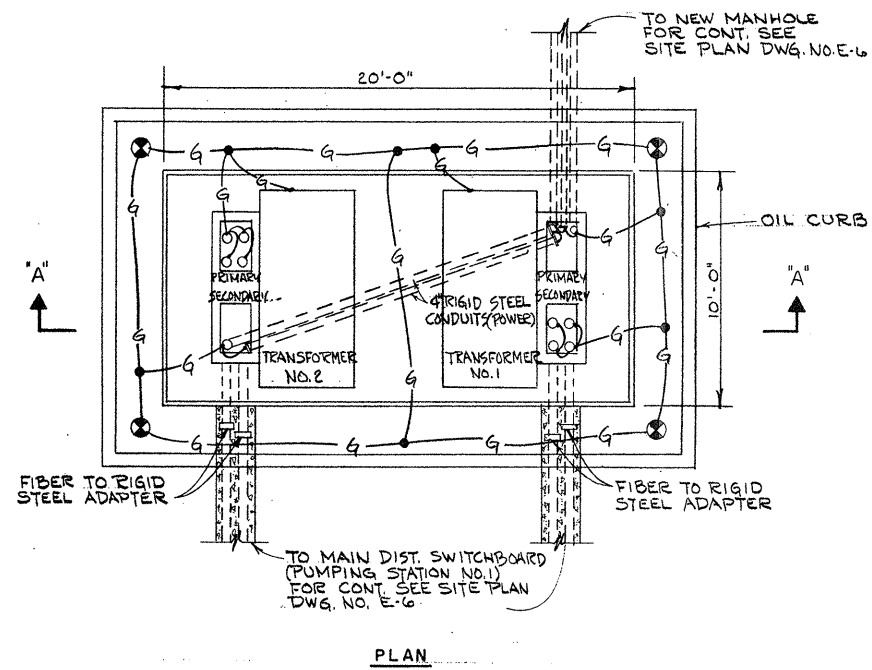
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

ELECTRICAL SITE PLAN

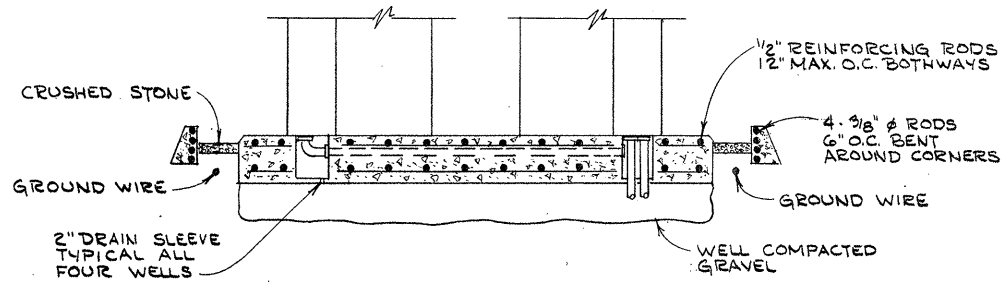
SCALE
 AS NOTED

CEM NO. 1981

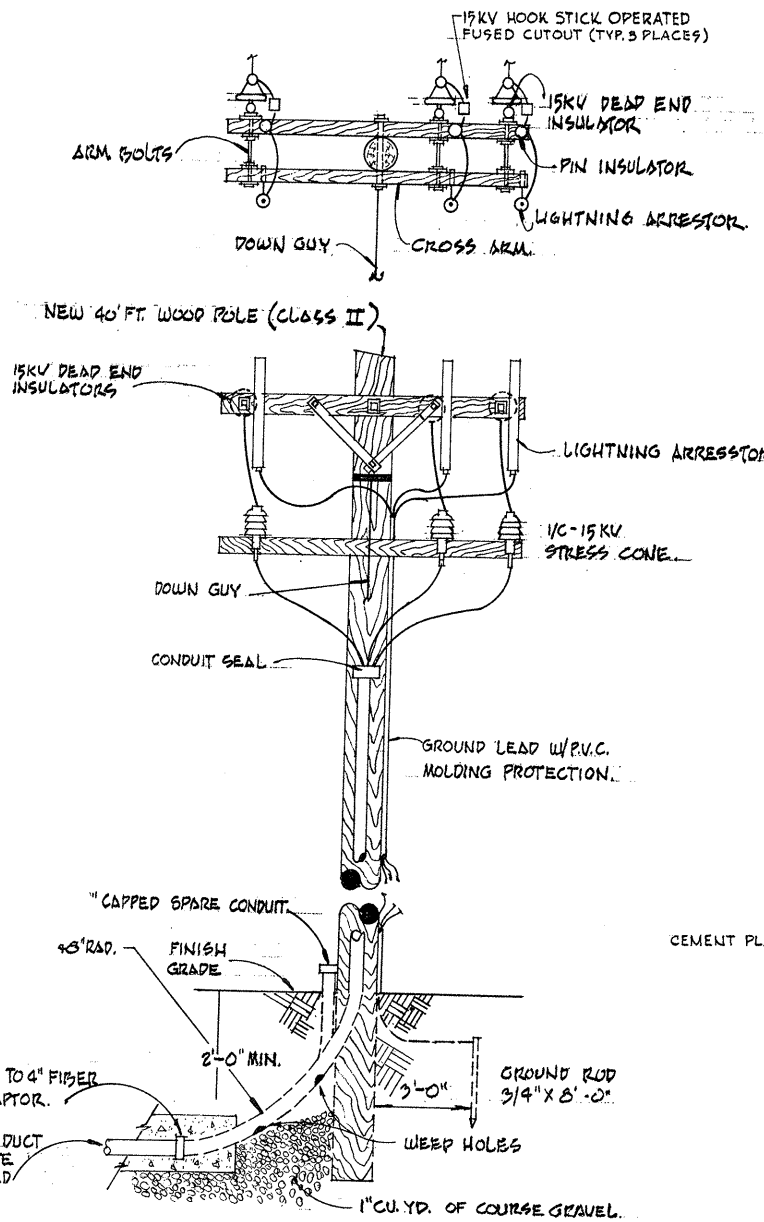
DRAWING NO.
E-6



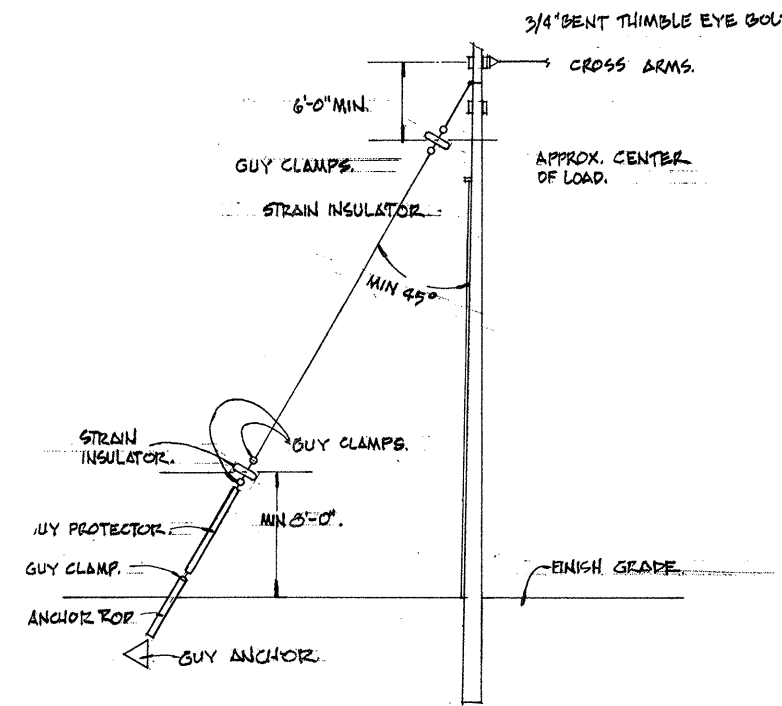
PLAN



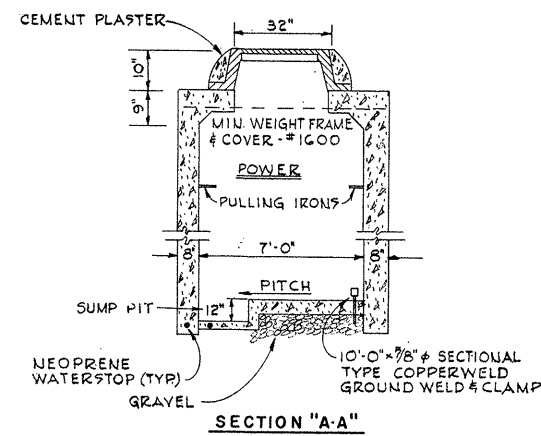
TRANSFORMER PAD DETAIL
NOT TO SCALE



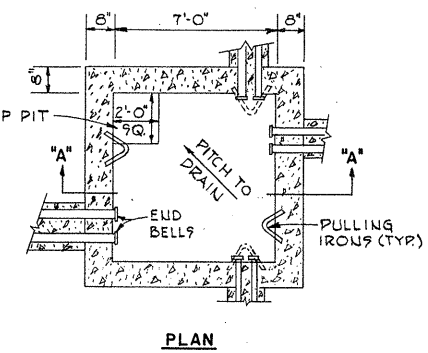
RISER POLE DETAIL
NOT TO SCALE



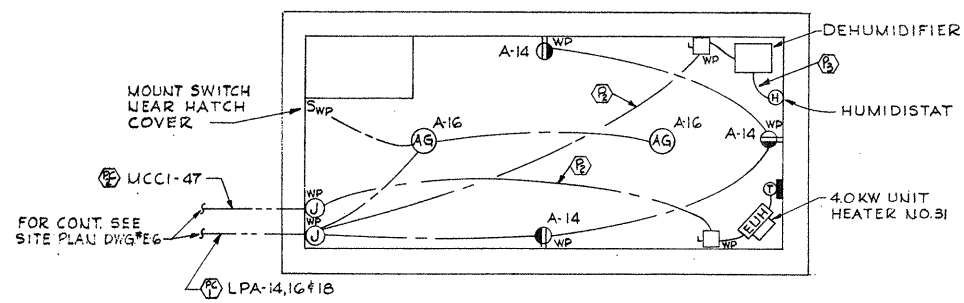
POLE GUY DETAIL
NOT TO SCALE



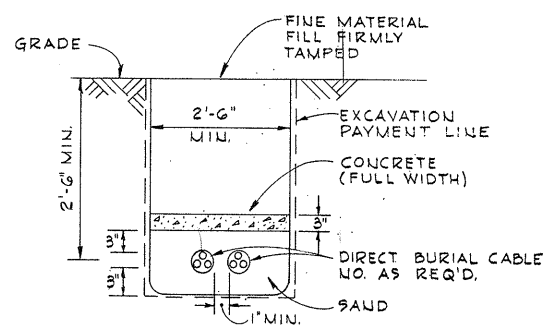
MANHOLE DETAIL
NOT TO SCALE



PLAN



METER PIT - POWER AND LIGHTING
SCALE: 1/4" = 1'-0"



TYPICAL TRENCH DETAIL
FOR DIRECT BURIAL CABLES
NOT TO SCALE

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: B. BURMAN DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Pary
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

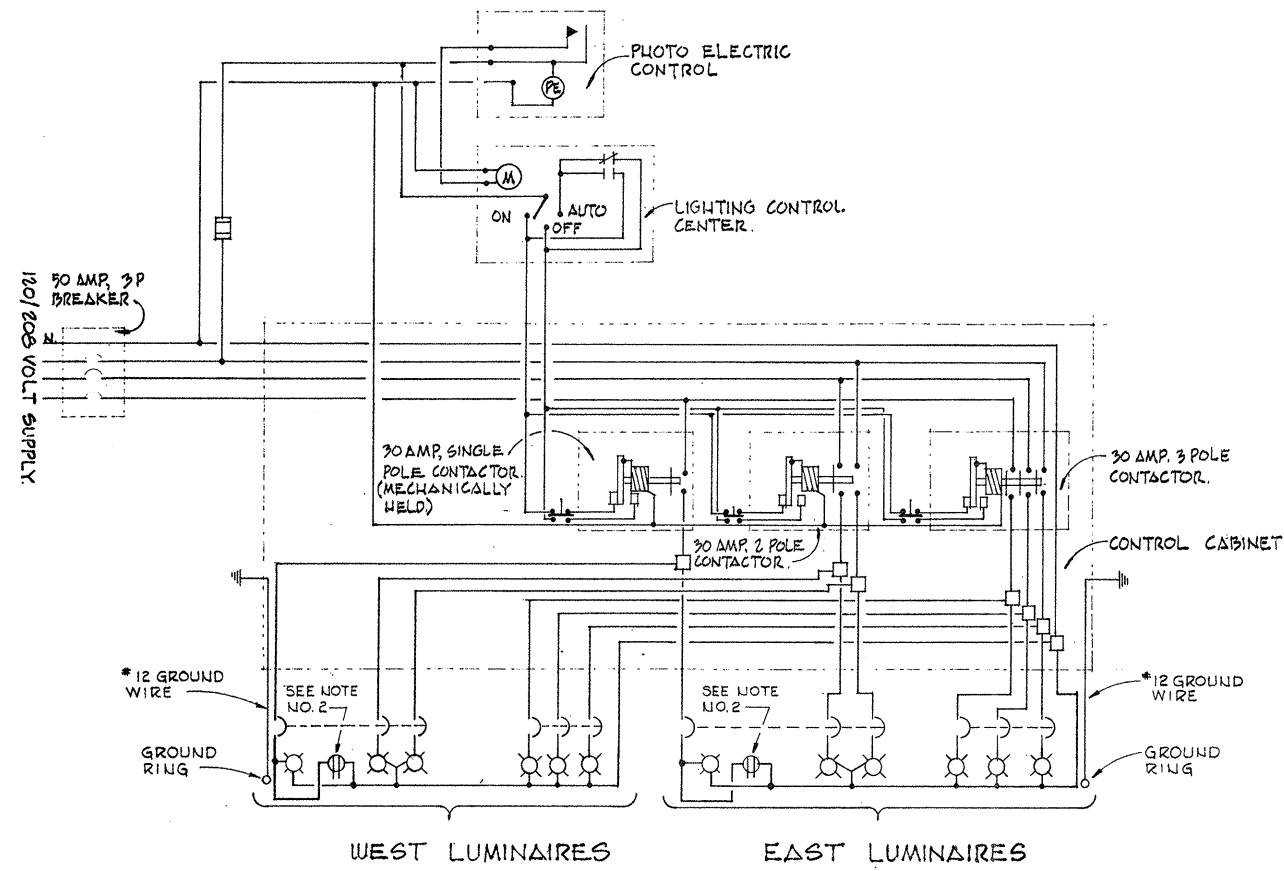
ELECTRICAL
 SITE DETAILS

SCALE
 NOT TO SCALE

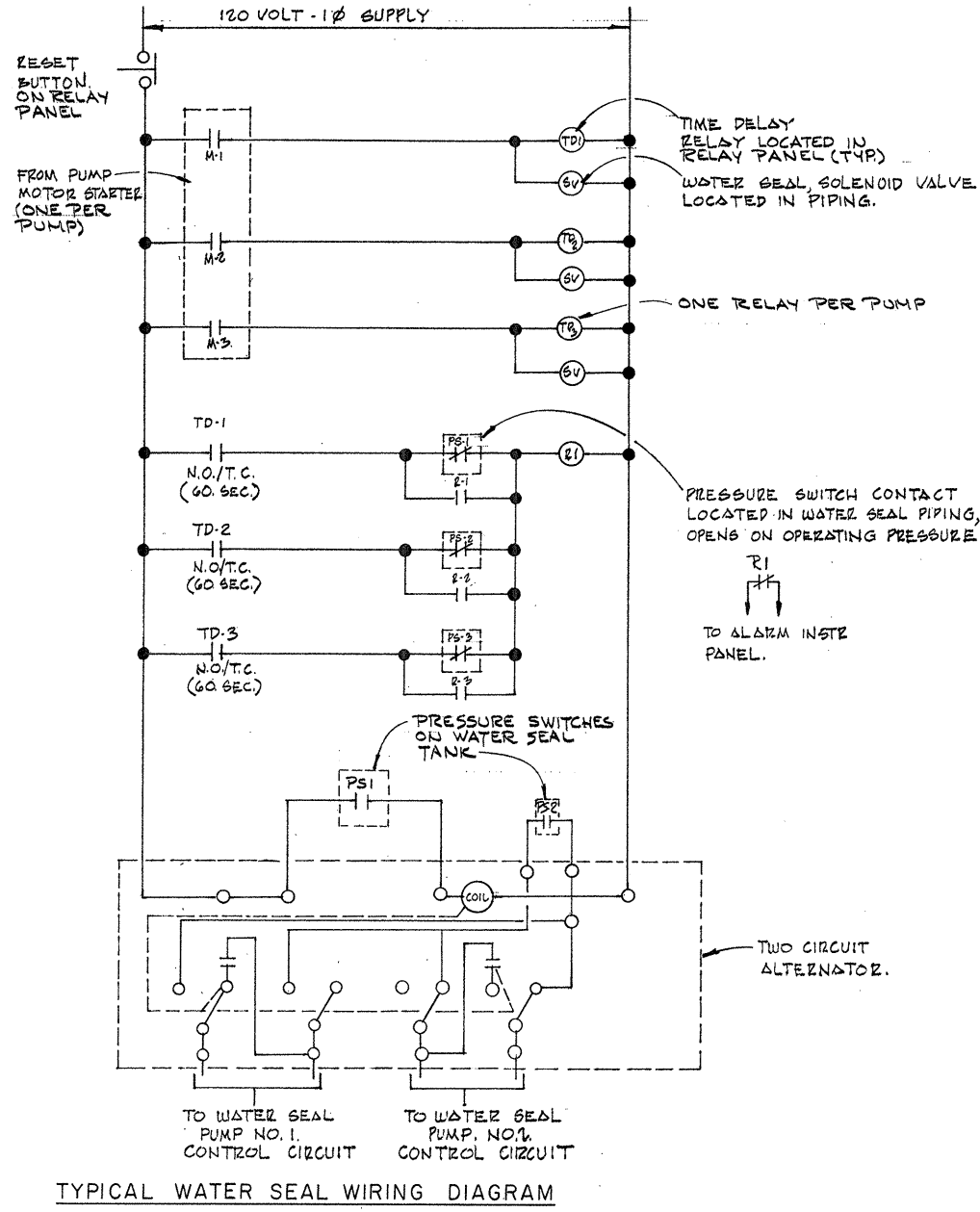
CEM NO. 1981

DRAWING NO.
E-7

CIRCUIT NO.	BRKR.	Fuses Type Amp. Trip	DESCRIPTION	K.W.	AMP.			WIRE SIZE	REMARKS
					A#	B#	C#		
1	1	20	Corridor & First Aid	1.304	10.8			12	
2	1	20	Office & Library Light.	1.658	14.4			12	
3	1	20	Chemist Office	.528	7.0			12	
4	1	20	Lab Lighting	1.104	9.6			12	
5	1	20	Waiting & Recept. Lighting	1.440				12.2	12
6	1	20	Lunch Rm. - Lighting	1.722				14.33	12
7	1	20	Corridor - Receptacles	1.440	12.0			12	
8	1	20	Lab - Receptacles	1.080	9.0			12	
9	1	20	Lab (Incubator) Recept.	.960	8.0			12	
10	1	20	Lab - Receptacles	1.080	9.0			12	
11	1	20	Lab (Refrig.) Recept.	.840				7.0	12
12	1	20	Chemist Office - Recept.	1.800				15.0	12
13	1	20	Lab. Recept.	1.440	12.0			12	
14	1	20	Rest Room - Lighting	.840	7.0			12	
15	1	20	Reception Area - Recept.	1.080	9.0			12	
16	1	20	Office - Recept.	1.080	9.0			12	
17	1	20	Rest Room - Recept.	1.800				15.0	12
18	1	20	Library - Recept.	1.440				12.0	12
19	1	20	Lunch Rm. - Recept.	1.080	9.0			12	
20	1	20	EE-2 #6	1/20, 1/3	8.4			12	
21	1	20	Automatic Absorption Unit	1.080				9.0	12
22	1	20	Reheat Coils	.480				4.0	12
23	1	20	Hot Water Heater	1.000				8.33	12
24	1	20	Lab Outlet	1.456	7.0			7.0	12
25	1	20	Ammonia Analyzer	.480	4.0			12	
26	1	20	pH Probe	.480	4.0			12	
27	1	20	Spare						
28	1	20	Spare						
29	1	20	Spare						
TOTALS				28.030	89.6	64.6	90.66		

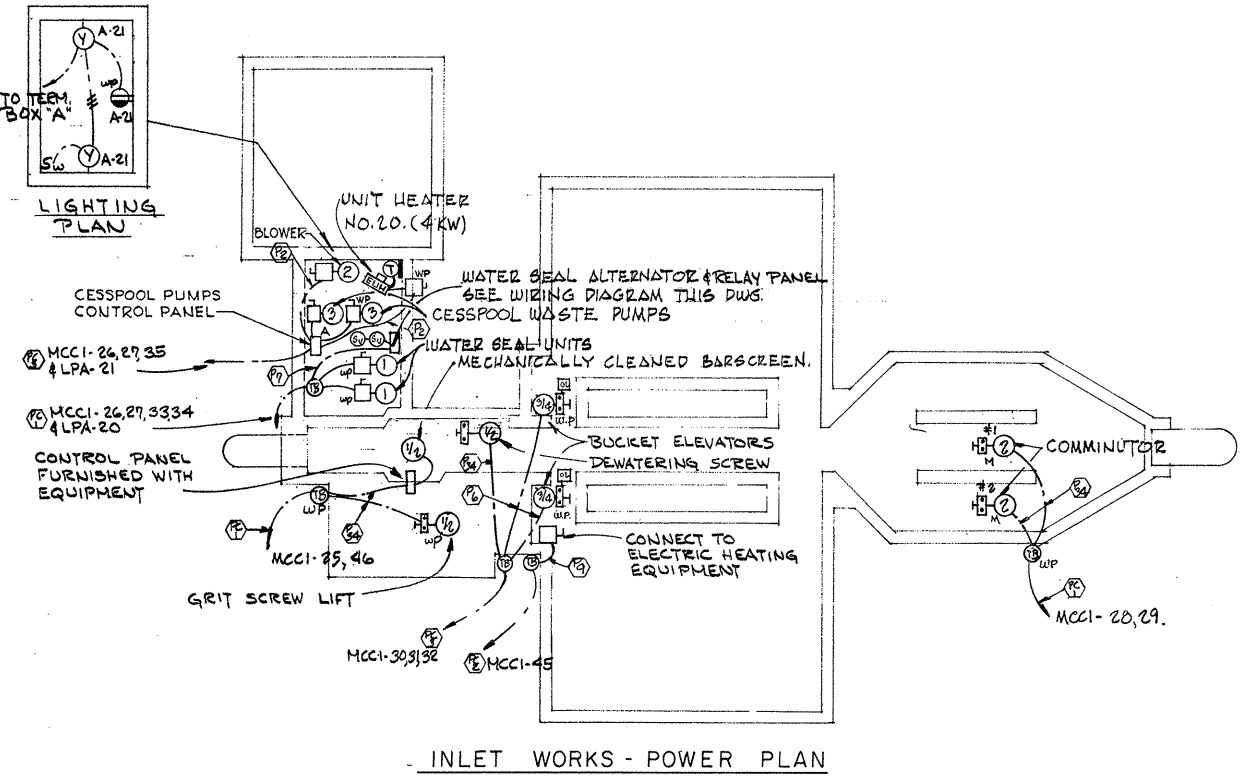


SITE LIGHTING DETAIL
 SINGLE LINE DIAGRAM
 NOT TO SCALE

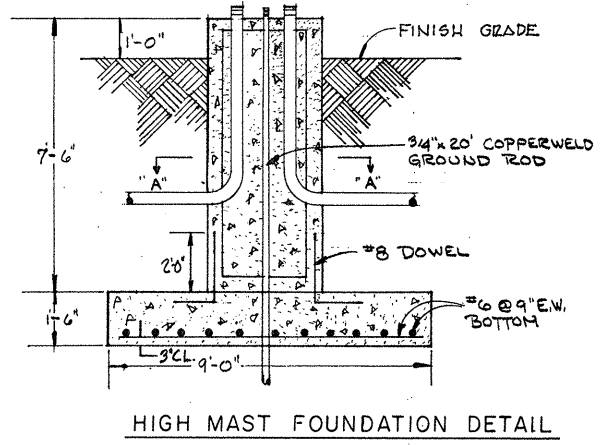


TYPICAL WATER SEAL WIRING DIAGRAM

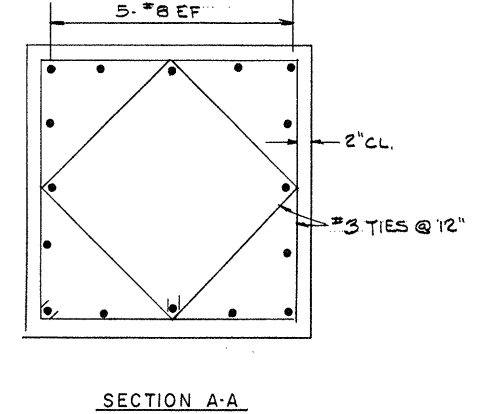
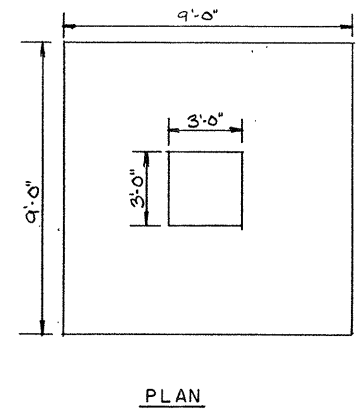
- NOTES:**
- FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
 - PROVIDE GROUND FAULT DUPLEX RECEPTACLE.



INLET WORKS - POWER PLAN



HIGH MAST FOUNDATION DETAIL



ATTENTION
 THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: B. BURMAN DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS - ENGINEERS - PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Cloupy
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

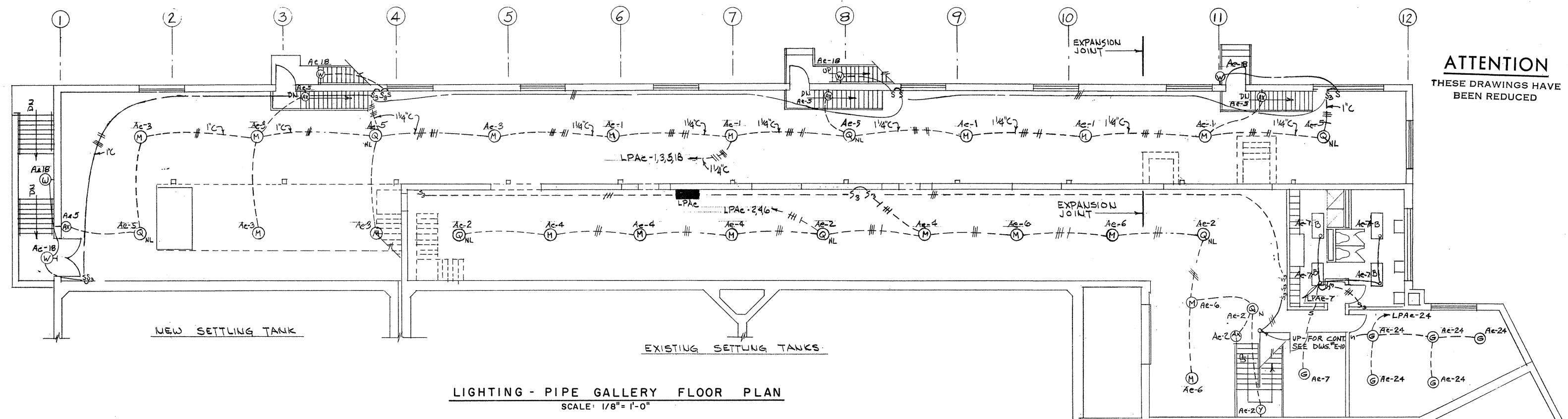
ELECTRICAL
 SITE DETAIL.

SCALE
 NOT TO SCALE

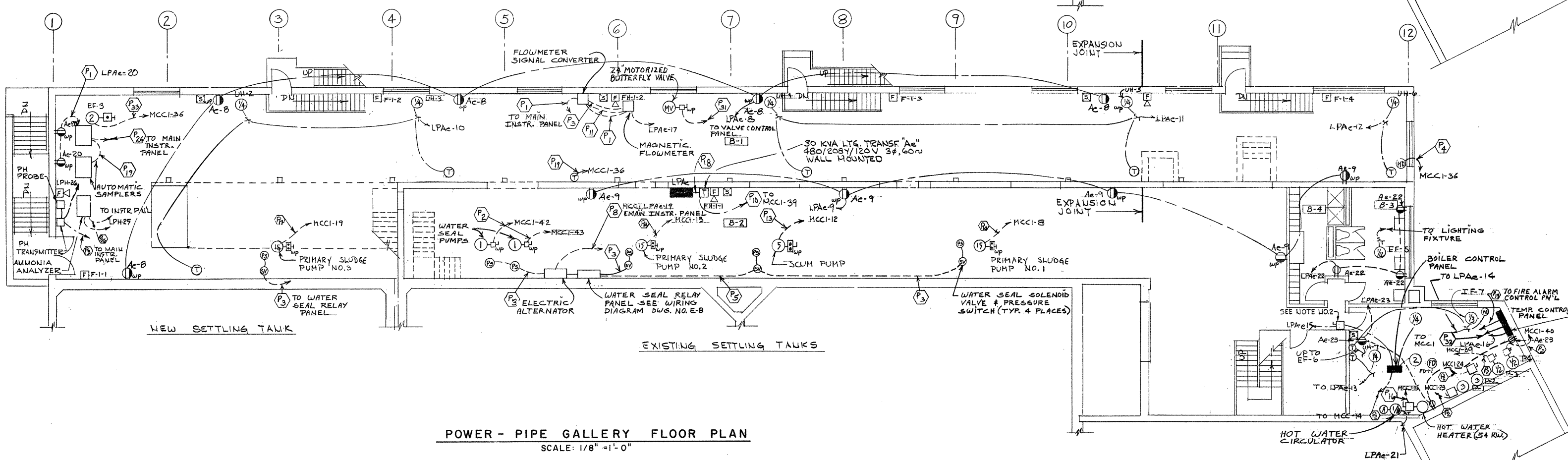
CEM NO. 1981

DRAWING NO.
E-8

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED



LIGHTING - PIPE GALLERY FLOOR PLAN
SCALE: 1/8" = 1'-0"



POWER - PIPE GALLERY FLOOR PLAN
SCALE: 1/8" = 1'-0"

- NOTES:**
- FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
 - BOILER DISCONNECT SWITCH SHALL BE PAINTED RED AND NAMEPLATE SHALL READ "BOILER EMERGENCY DISCONNECT" & SHALL DISCONNECT 480 VOLT SUPPLY.
 - NIGHT LIGHT CIRCUITS SHALL OPERATE FROM PANEL ONLY.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



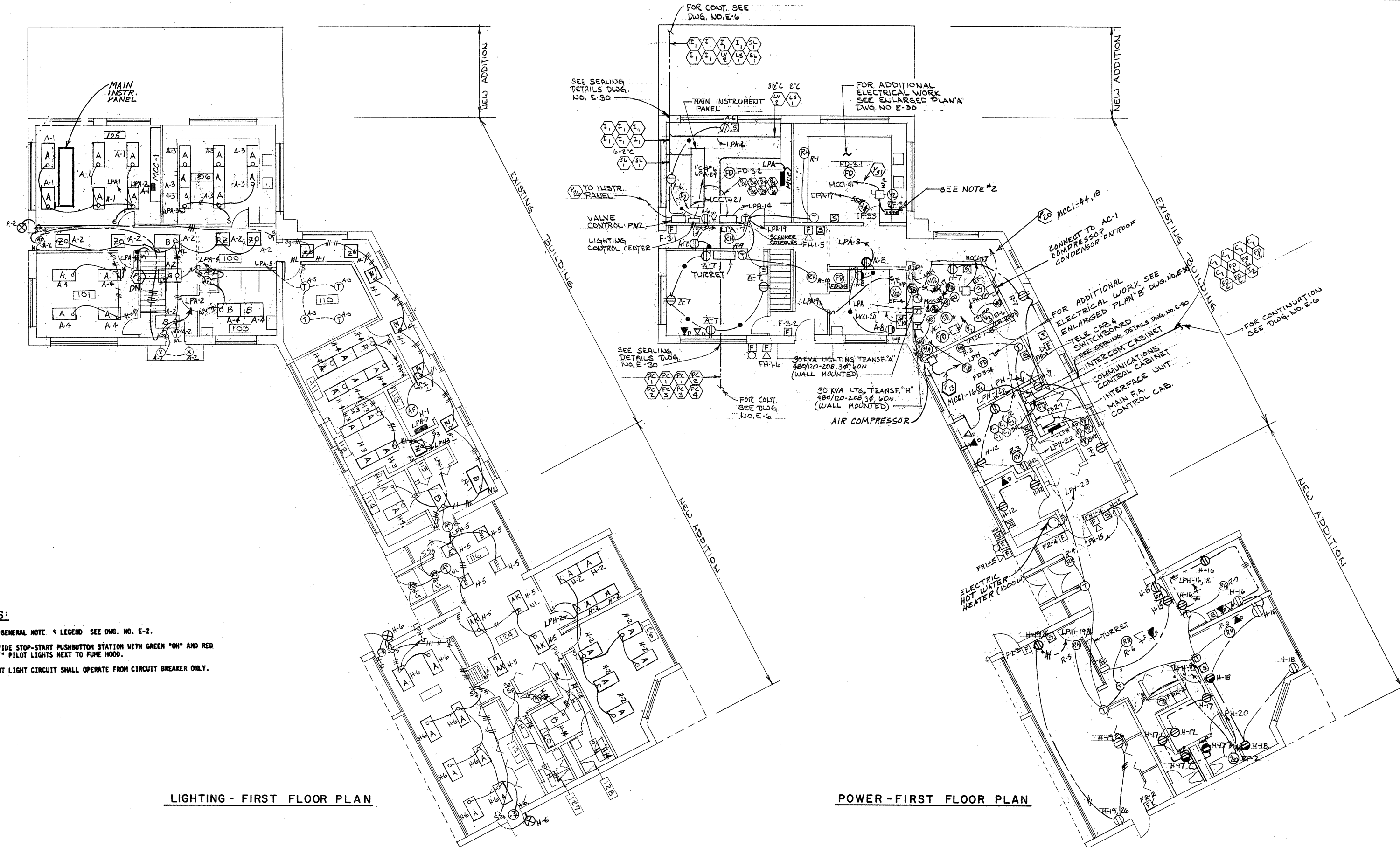
DRAWN: T. KARAS DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS - ENGINEERS - PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Maguire
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING
ELECTRICAL
PIPE GALLERY - POWER & LIGHTING

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
E-9



- NOTES:**
1. FOR GENERAL NOTE & LEGEND SEE DWG. NO. E-2.
 2. PROVIDE STOP-START PUSHBUTTON STATION WITH GREEN "ON" AND RED "OFF" PILOT LIGHTS NEXT TO FUME HOOD.
 3. NIGHT LIGHT CIRCUIT SHALL OPERATE FROM CIRCUIT BREAKER ONLY.

LIGHTING - FIRST FLOOR PLAN

POWER - FIRST FLOOR PLAN

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



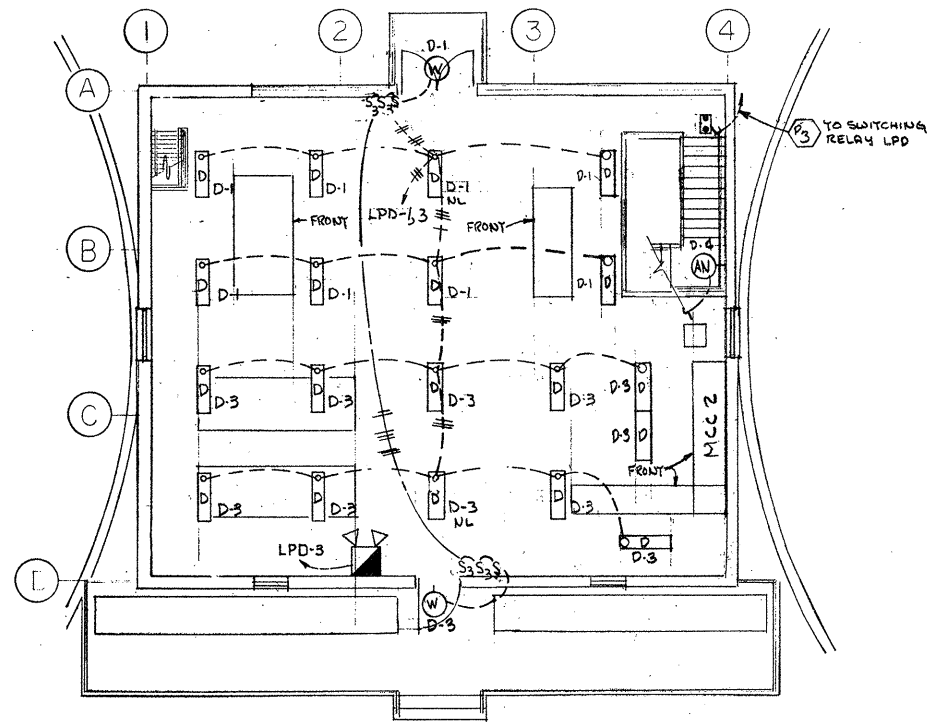
DRAWN: J. CALIGURI DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: W. HUNDLEY
 DATE: JULY, 1974

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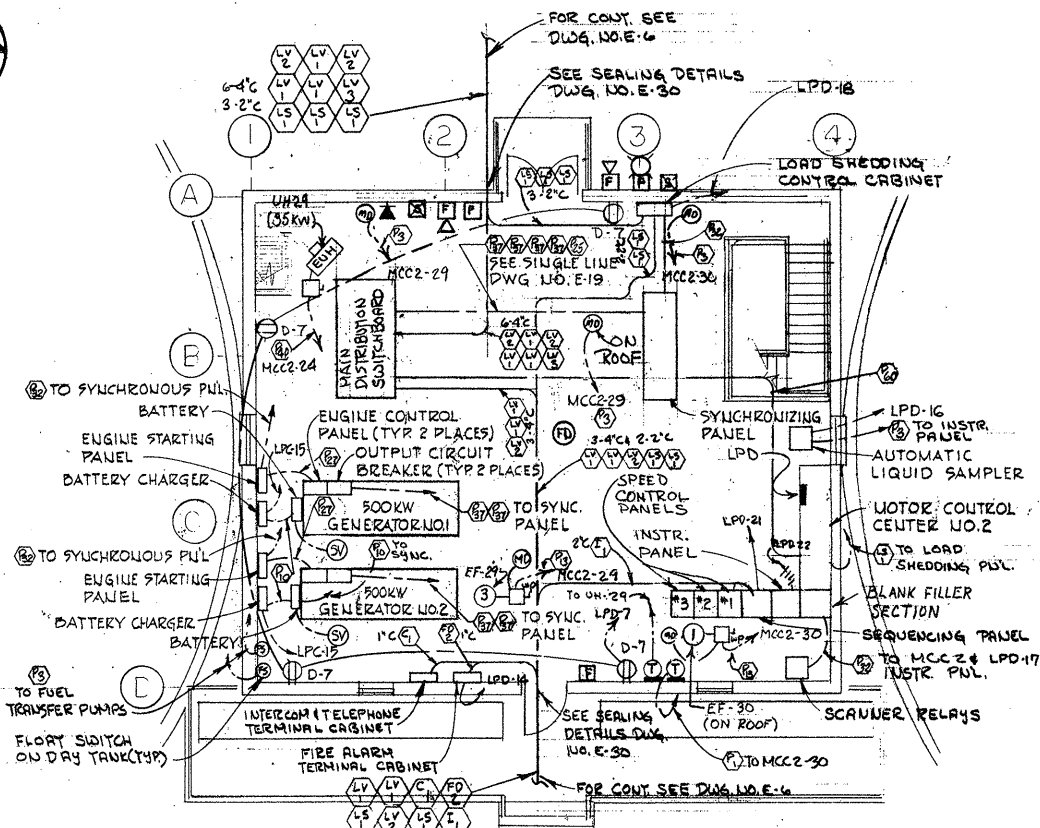
APPROVED
Charles A. Maguire
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING
ELECTRICAL
 FIRST FLOOR - POWER & LIGHTING

SCALE
 1/8" = 1'-0"
 CEM NO. 1981
 DRAWING NO.
E-10

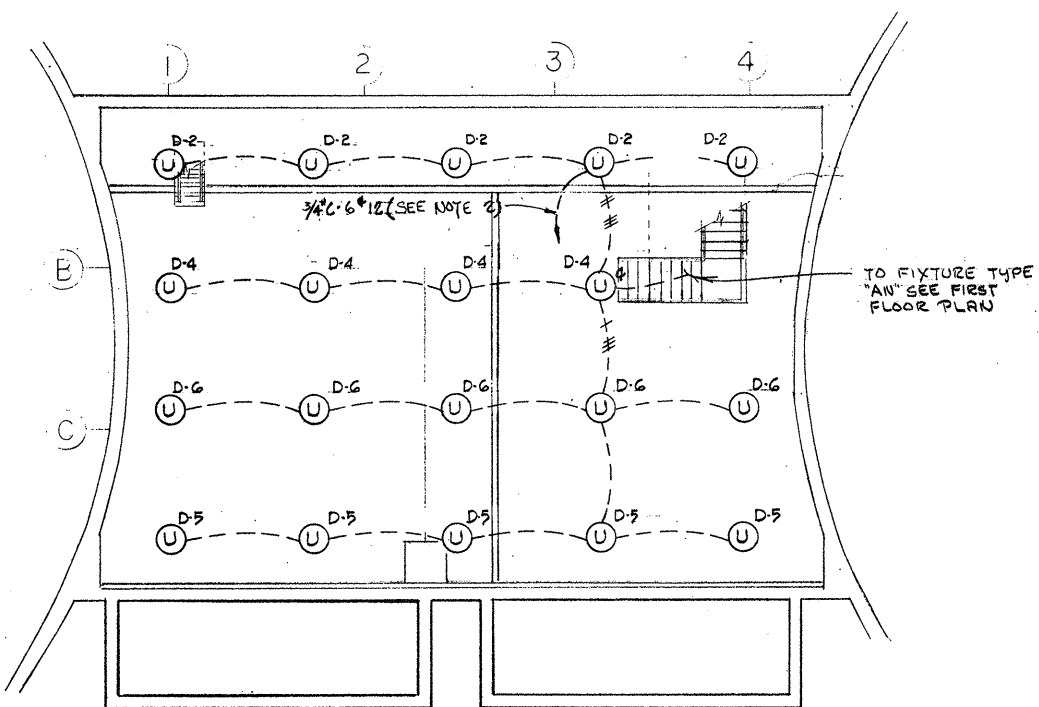


LIGHTING - FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

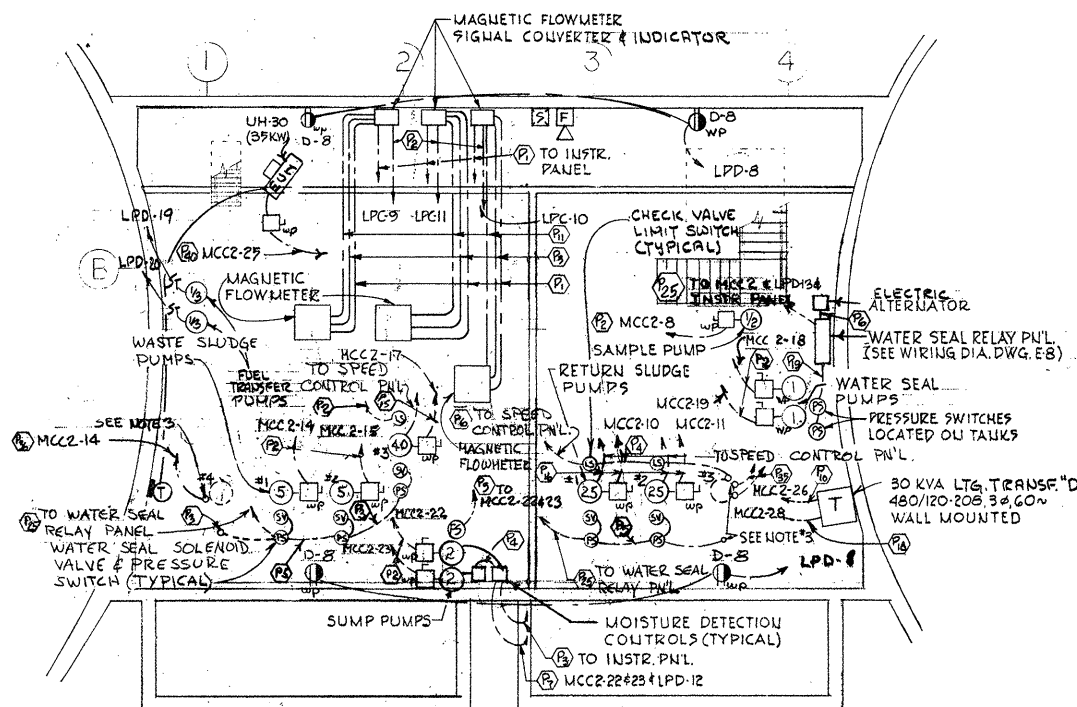


POWER - FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

PANEL LPD									
120/208 VOLT 3 PHASE 4 WIRE - SOLID NEUTRAL									
100 AMP. MAIN Breaker									
LOCATION Sludge Pumping Station No. 1									
MOUNTING Motor Control Center No. 2									
CIRCUIT NO.	BRKR.	DESCRIPTION	K.W.	AMP.			WIRE SIZE	REMARKS	
				AF	BF	CF			
1	1	20 First Floor Lighting	1.160	9.6			12		
2	1	20 Basement Lighting	1.500	12.5			12		
3	1	20 First Floor Lighting	1.160	9.6			12		
4	1	20 Basement Lighting	1.500	12.5			12		
5	1	20 Basement Lighting	1.500			12.5	12		
6	1	20 Basement Lighting	1.500			12.5	12		
7	1	20 First Floor - Recept.	1.440	12.0			12		
8	1	20 Basement - Receptiles	1.440	12.0			12		
9	1	20 Flowmeter	.960	8.0			12	Provide Lockout	
10	1	20 Flowmeter	.960	8.0			12	Provide Lockout	
11	1	20 Flowmeter	.960	8.0			12	Provide Lockout	
12	1	20 Moisture Detection	.480			4.0	12	Provide Lockout	
13	1	20 Water Seal Relay Panel	.480	4.0			12	Provide Lockout	
14	1	20 Fire Alarm Term. Cab.	.480	4.0			12	Provide Lockout	
15	1	20 Battery Chargers	.240			2.0	12	Provide Lockout	
16	1	20 Liquid Sampler	.120	1.0			12	Provide Lockout	
17	1	20 Scanner Relay	.240			8.0	12	Provide Lockout	
18	1	20 Load Shedding	.480			4.0	12	Provide Lockout	
19	1	20 Fuel Transfer Pump #1		7.2			12	Provide Lockout	
20	1	20 Fuel Transfer Pump #2		7.2			12	Provide Lockout	
21	3	20 Instr. Panel	.360	1.0	1.0	1.0	12	Provide Lockout	
22	3	20 Speed Control Panel	1.560	10.0	10.0	10.0	12	Provide Lockout	
23	1	20 Spare							
24	1	20 Spare							
TOTALS			18,200	65.1	52.1	59.0			



LIGHTING - BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"



POWER - BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

NOTES:

- FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
- LIGHTING, PANEL 'D' CIRCUIT NO. LPD-2, 4, 5 & 6 SHALL BE SWITCHED THROUGH SWITCHING RELAY LOCATED IN PANEL. RELAY SHALL BE CONTROLLED BY ON-OFF PUSH BUTTON STATION RATED @ 20 AMPERES & SHALL BE MECHANICALLY HELD.
- STUB UP & CAP FLUSH WITH FLOOR.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. CALIGURI DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles C. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

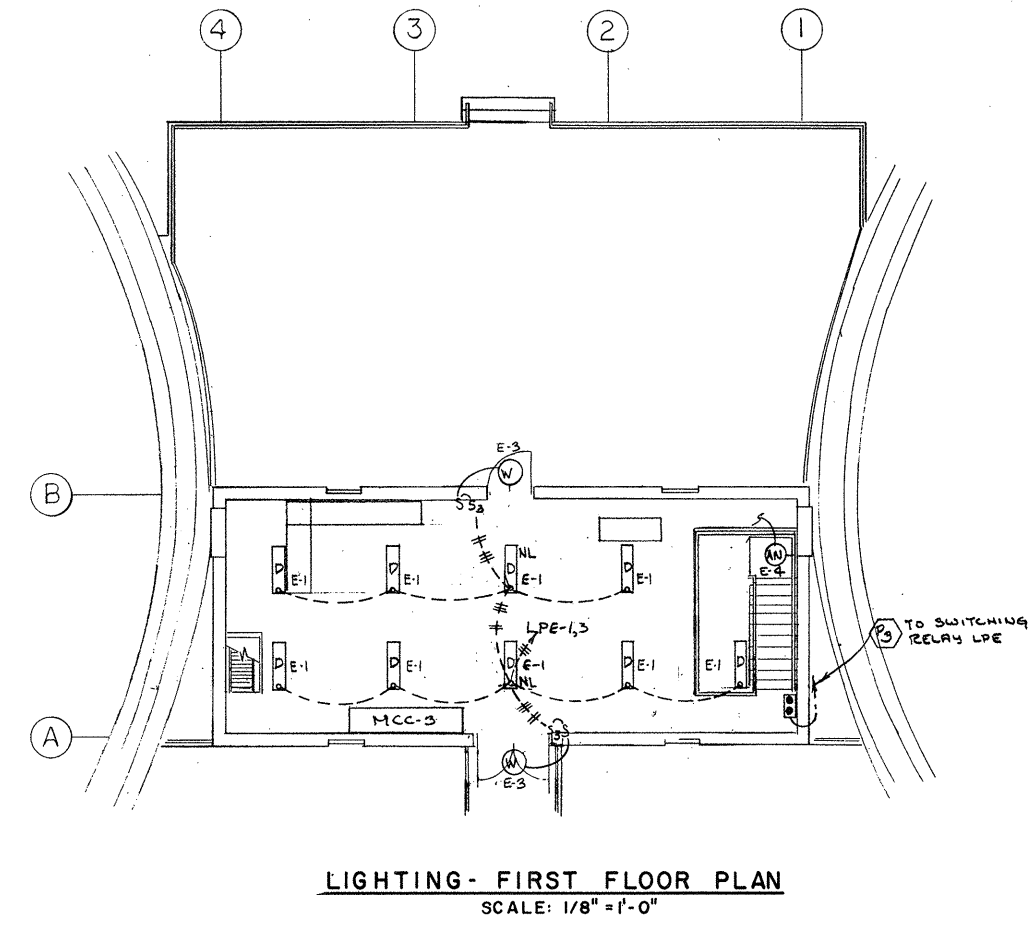
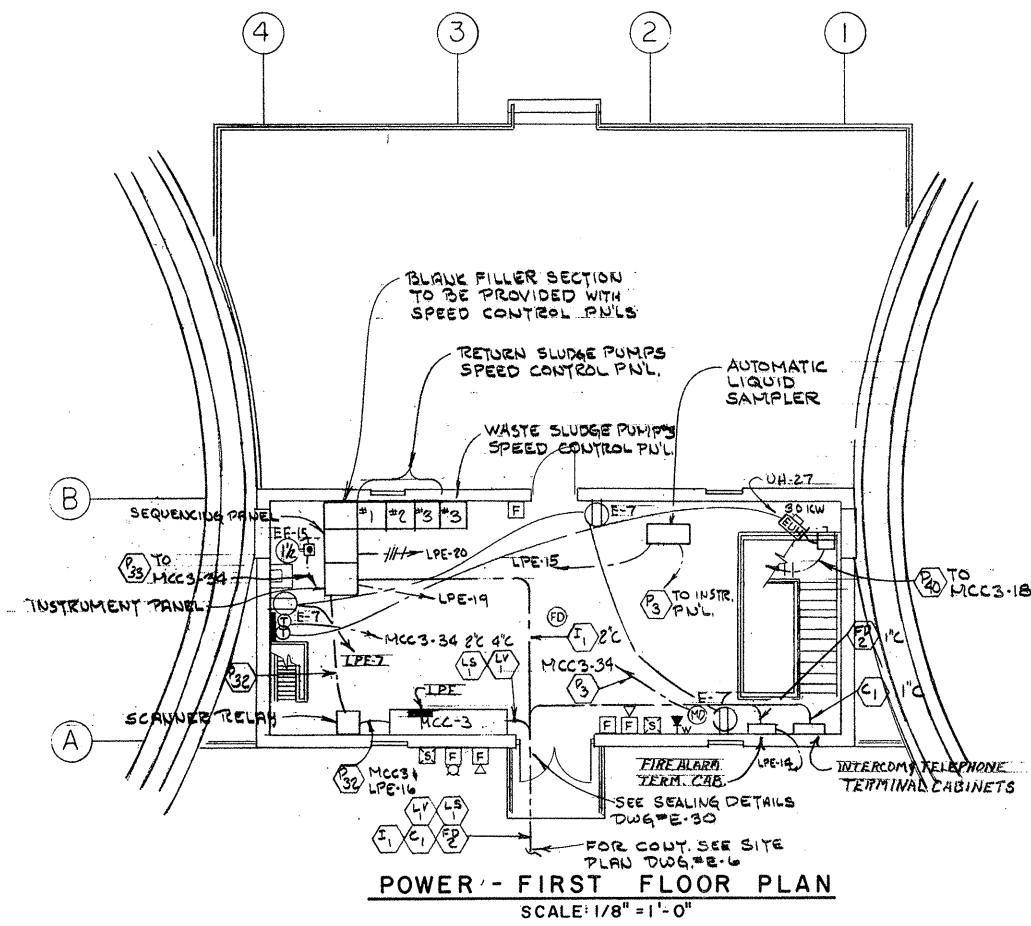
SLUDGE PUMPING STATION NO. 1

ELECTRICAL
POWER AND LIGHTING

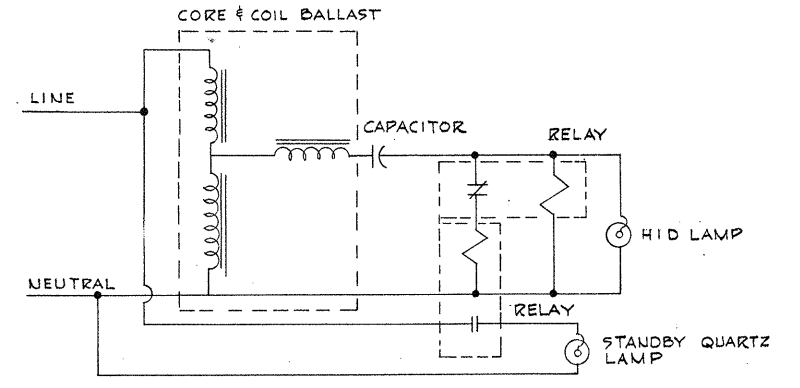
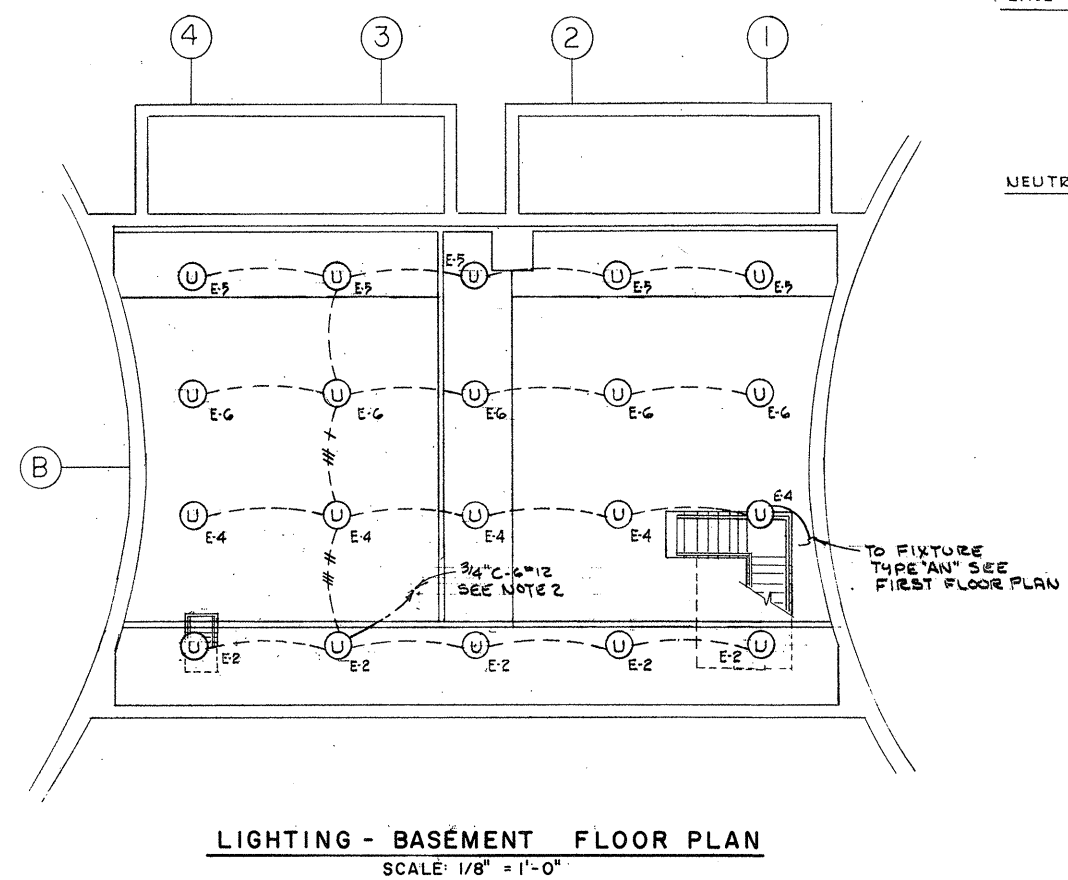
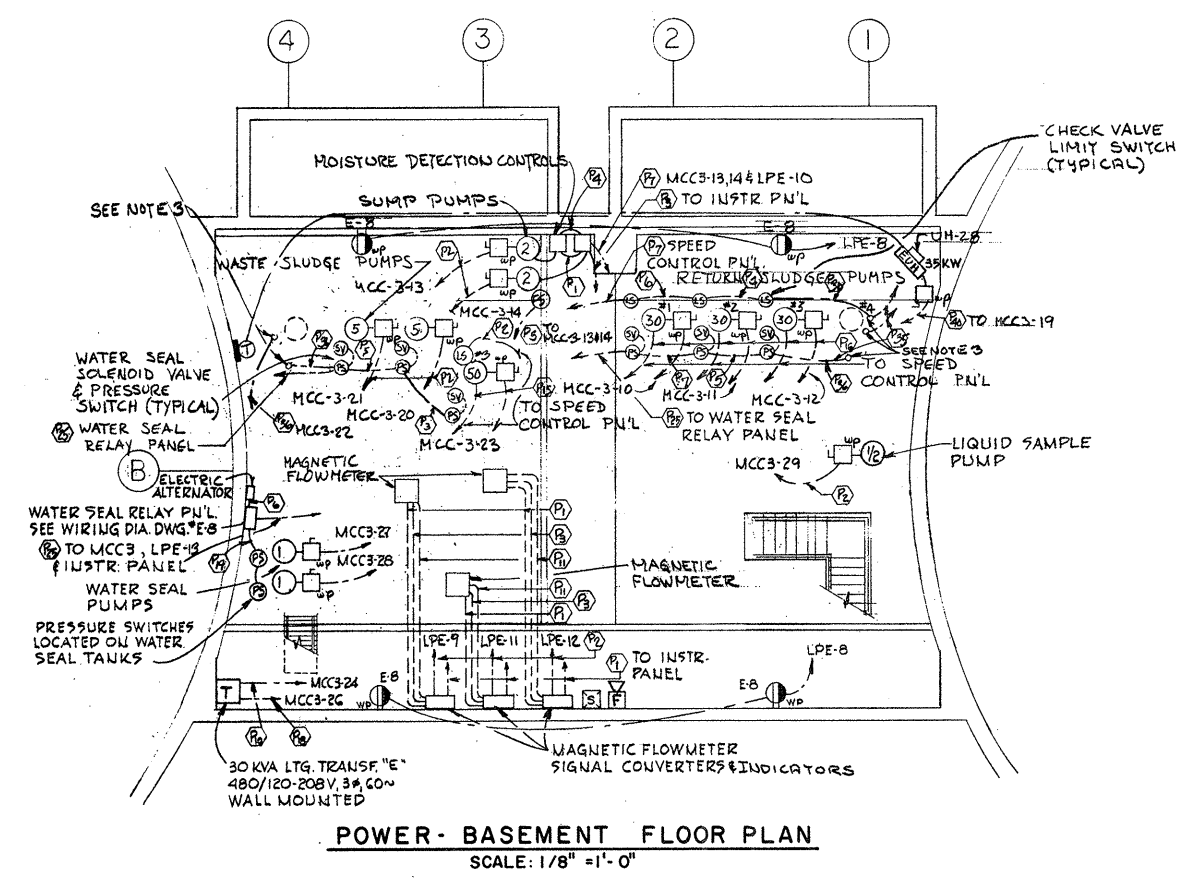
SCALE
AS NOTED

CEM NO. 1981

DRAWING NO.
E-11



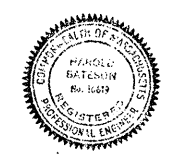
PANEL LPE									
120/208VOLT 3 PHASE 4 WIRE - SOLID NEUTRAL									
100AMP. MAIN Breaker									
LOCATION Sludge Pumping Station - No. 2									
MOUNTING Motor Control Center No.3									
CIRCUIT NO.	BRKR.	DESCRIPTION	HOSE POWER	K.W.	AMP.			WIRE SIZE	REMARKS
					A#	B#	C#		
1	1	20 First Floor - Lighting	.920	8.0			12		
2	1	20 Basement Lighting	1.500	12.5			12		
3	1	20 Outdoor Lighting	.600		5.0		12		
4	1	20 Basement Lighting	1.500			12.5	12		
5	1	20 Basement Lighting	1.500				12.5	12	
6	1	20 Basement Lighting	1.500					12.5	12
7	1	20 First Floor - Receptacles	1.200	10.0					
8	1	20 Basement - Receptacles	1.200	10.0					
9	1	20 Flowmeter	.960		8.0		12		Provide Lockout
10	1	20 Moisture Detection	.480		4.0		12		Provide Lockout
11	1	20 Flowmeter	.960		8.0		12		Provide Lockout
12	1	20 Flowmeter	.960		8.0		12		Provide Lockout
13	1	20 Water Seal Alternator	.480	4.0			12		Provide Lockout
14	1	20 Fire Alarm Terminal Cab	.480	4.0			12		Provide Lockout
15	1	20 Liquid Sampler	.120	1.0			12		Provide Lockout
16	1	20 Scanner Relay	.240	2.0			12		
17	1	20 Spare							
18	1	20 Spare							
19	1	20 Instrument Panel	.360	3.0	1.0	1.0	12		Provide Lockout
20	3	20 Speed Control Panel	1.360	10.0	10.0	10.0	12		Provide Lockout
21	1	20 Spare							
22	1	20 Spare							
TOTALS				15.08	50.5	32.5	12.0		



ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

- NOTES:**
- FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
 - LIGHTING PANEL "E" CIRCUIT NUMBERS LPE 2,4,5 & 6 SHALL BE SWITCHED THROUGH SWITCHING RELAY LOCATED IN THE PANEL. RELAY SHALL BE CONTROLLED BY ON-OFF PUSHBUTTON STATION AND RATED @ 20 AMPERES & SHALL BE MECHANICALLY HELD.
 - STUB UP & CAP WITH FINISHED FLOOR.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: J. CALIGURI DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Clouspy
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE PUMPING STATION NO 2
ELECTRICAL
POWER AND LIGHTING

SCALE
AS NOTED

CEM NO. 1981

DRAWING NO.
E-12

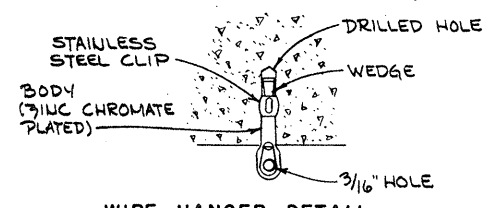
FOR LIGHTING PLAN OF BASEMENT, SEE DETAIL THIS SHEET.



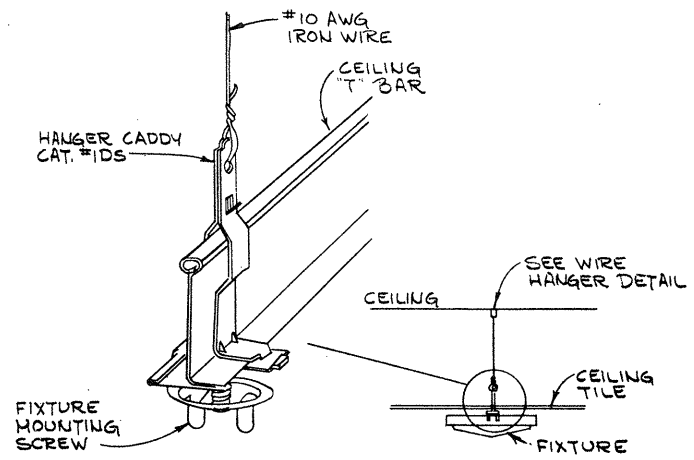
PANEL DP-8
120/208 VOLT 3 PHASE 4 WIRE - SOLID NEUTRAL
225 AMP. MAIN Breaker
LOCATION Electric Room
MOUNTING Wall

CIRCUIT NO.	BRKR. Panel Frame Amp. Trip	DESCRIPTION	HOSE POWER	AMP.			WIRE SIZE	REMARKS
				K.W.	A#	B#		
1	3 E 100	Bus Duct	18.000	50.0	50.0	50.0	2"	
2	3 E 150	Lighting Panel B	38.056	118.7	121.8	137.5		
3	3 E 120	Lighting Panel S	22.545	91.5	126.8	114.9		
4	3 E 100	Spare	-	-	-	-		
TOTALS			78.601	259.7	298.1	302.5		

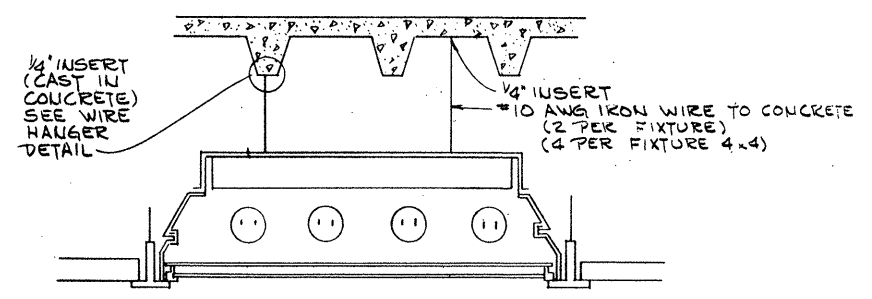
LIGHTING PLAN
ELEV.-22.00
MODIFIED CONTROL
BLDG.



WIRE HANGER DETAIL



TYPICAL FIXTURE HANGING DETAIL
SURFACE MOUNTED
NOT TO SCALE



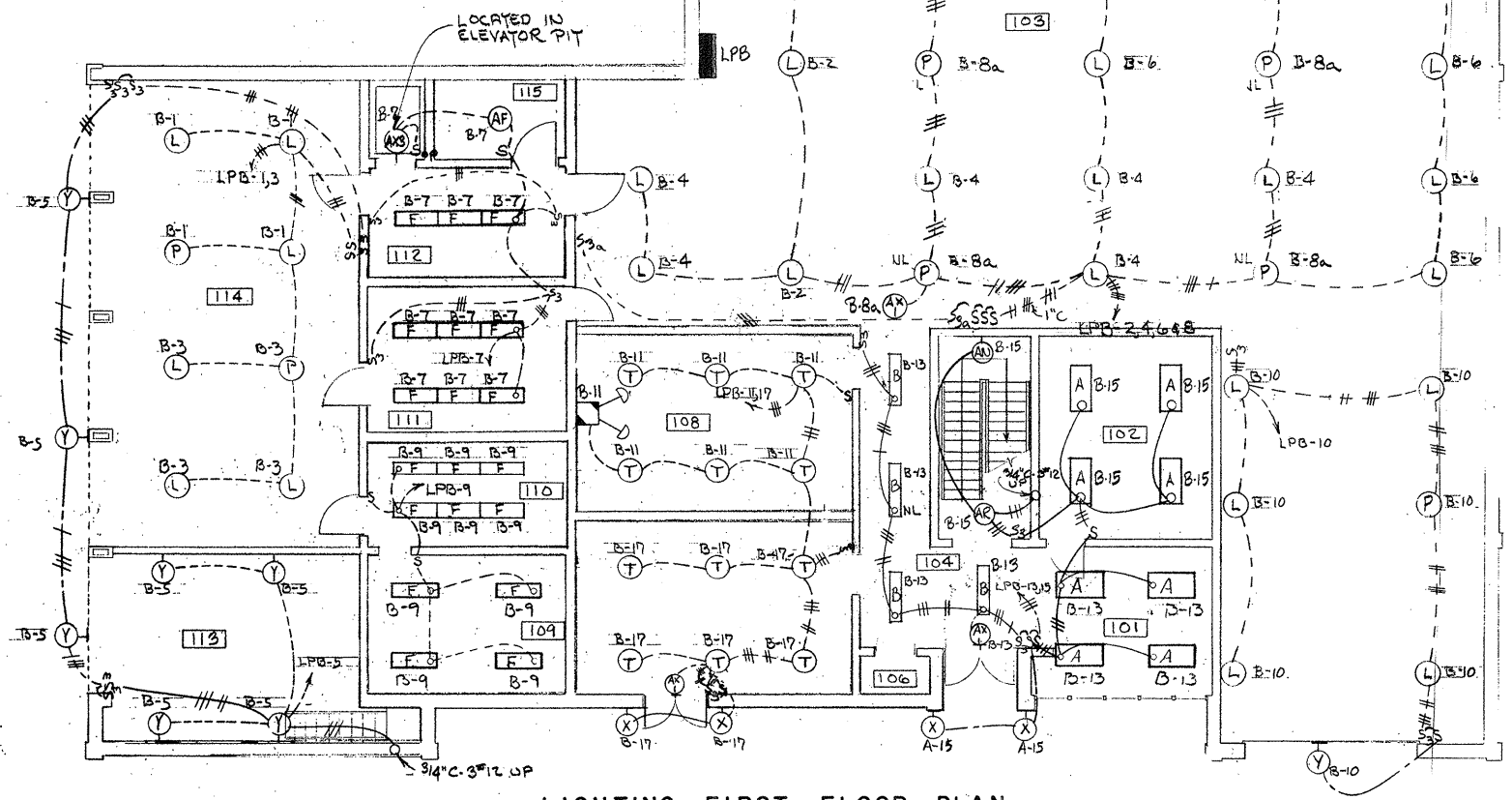
TYPICAL RECESSED FIXTURE MOUNTING
NOT TO SCALE

PANEL LPB - (Double Panel)
120/208 VOLT 3 PHASE 4 WIRE - SOLID NEUTRAL
125 AMP. MAIN Breaker
LOCATION Heat Treatment Rm.
MOUNTING Surface

CIRCUIT NO.	BRKR. Panel Frame Amp. Trip	DESCRIPTION	HOSE POWER	AMP.			WIRE SIZE	REMARKS
				K.W.	A#	B#		
1	1	20 Garage Ltg.	.800	6.6			12	
2	1	20 Heat Treatment Rm.-Ltg.	1.400	11.6			12	
3	1	20 Garage - Ltg.	.800		6.6		12	
4	1	20 Heat Treatment Rm.-Leg.	1.600		13.3		12	
5	1	20 Hopper - Ltg.	1.400			11.6	12	
6	1	20 Heat Treatment Rm.-Ltg.	1.750			14.6	12	
7	1	20 Chem. & Mach. Rm. - Ltg.	.828	7.2			12	
8	1	20 Heat Treatment Rm.-Ltg.	1.200	10.0			12	
9	1	20 Repair & Parts Shop-Ltg.	.920		8.0		12	
10	1	20 1st Floor - Ltg.	1.400		11.6		12	
11	1	20 Control & Mach. Rm-Ltg.	1.200			10.0	12	
12	1	20 Odor Scrubber	.120			1.0	12	
13	1	20 First Aid & Corridor-Ltg.	1.454	12.1			12	
14	1	20 Sludge Cont.Bldg. -Ltg.	1.600	13.3			12	
15	1	20 Lunch Room - Ltg.	.936		7.8		12	
16	1	20 Sludge Cont.Bldg.-Ltg.	1.440	12.0			12	
17	1	20 Mechanical Rm.- Ltg.	1.440			11.6	12	
18	1	20 UH-16 & UH-17	1/4			11.6	12	
19	1	20 Cabinet Htr. & UH-15 -1/6, 1/4			10.2		12	
20	1	20 UH-18 & 19	1/4, 1/6		10.2		12	
21	1	20 UH-21 & IF-17	1/4, 1/2		13.0		12	
22	1	20 Boiler Control Pn'l.	.480		4.0		12	
23	1	20 Garage - Receptacles	1.440			12.0	12	
24	1	20 Machine Shop - Recept.	1.800			15.0	12	
25	1	20 Heat Rm. - Recept.	1.440	12.0			12	
26	1	20 Moisture Detection	.480	4.0			12	
27	1	20 Heat Rm. - Recept.	1.440	12.0			12	
28	1	20 Control Rm. - Recept.	1.080	9.0			12	
29	1	20 Lunch Rm. - Recept.	1.440			12.0	12	
30	1	20 Mech. Rm. - Recept.	1.440			12.0	12	
31	1	20 First Aid - Recept.	1.440	12.0			12	
32	1	20 Temp. Control Pn'l.	.480	4.0			12	Provide lockout
33	1	20 Unit Heaters 8, 11, 12, 13, 14	.696		5.8		12	
34	1	20 Unit Heaters 9, 10 & EF-11, 12	12.7				12	
35	1	20 EF-11 & EF-16	.792		6.6		12	
36	1	20 Hot Water Heater	1.000		8.3		12	
37	1	20 Feed Water Tank	.120	1.0			12	
38	1	20 Fire Alarm Term. Cab	.480	4.0			12	Provide lockout
39	1	20 Boiler	.480	4.0			12	Provide lockout
40	1	20 Weighing Scale	.240	2.0			12	
41	1	20 Hot Water Heater	1.000		8.3		12	
42	1	20 Unit Heaters 22 & 23	1/2		3.0		12	
43	1	20 Spare						
44	1	20 Spare						
45	1	20 Spare						
46	1	20 Spare						
47	1	20 Spare						
48	1	20 Spare						
49	1	20 Spare						
50	1	20 Spare						
TOTALS			1-1/3	38.0%	118.2	121.8	137.6	

NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
2. LOCATE LIGHTING FIXTURES TO CLEAR PIPING.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED



LIGHTING - FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

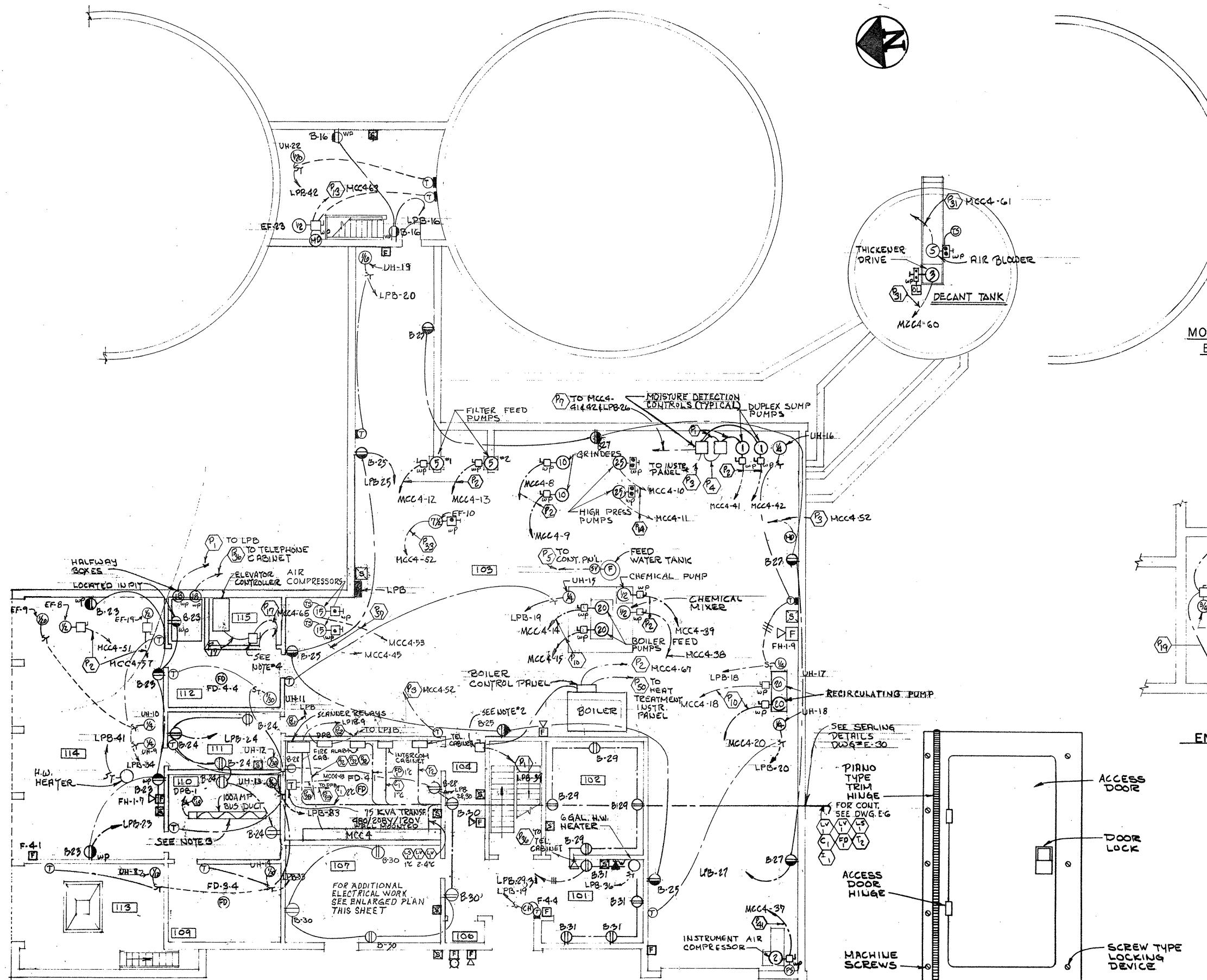
DRAWN: T. KARAS DESIGNED: A. CLOUPSY
CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
DATE: JULY, 1974

CE MAGUIRE, INC.
ARCHITECTS - ENGINEERS - PLANNERS
PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. King
CITY OF TAUNTON

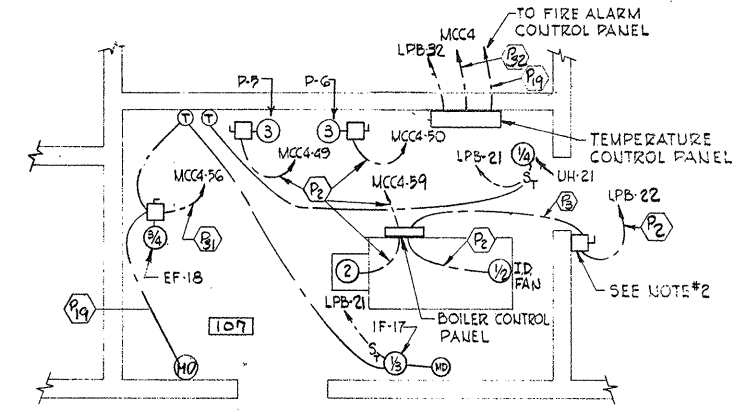
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
SLUDGE HANDLING BUILDING
ELECTRICAL
FIRST FLOOR PLAN LIGHTING

SCALE
AS NOTED
CEM NO. 1981
DRAWING NO.
E-13

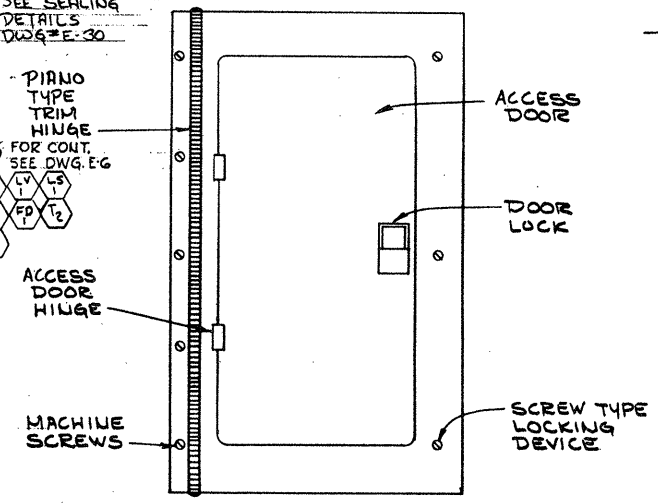


POWER - FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

MODIFIED SLUDGE CONTROL BLDG.
BASEMENT POWER PLAN
SCALE: 1/8" = 1'-0"



ENLARGED MECHANICAL ROOM
SCALE: 3/16" = 1'-0"



TYPICAL PANEL TRIM DETAIL
NOT TO SCALE

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

- NOTES:**
1. FOR GENERAL NOTES AND LEGEND SEE DWG. NO. E-2.
 2. BOILER DISCONNECT SWITCH SHALL BE PAINTED RED AND NAMEPLATE SHALL READ "BOILER EMERGENCY DISCONNECT." CIRCUIT SHALL BE WIRED TO DISCONNECT 480 VOLT SUPPLY.
 3. PROVIDE THE FOLLOWING PLUG-IN CIRCUIT BREAKERS
2 - 15 AMP. TYPE EB FRAME 3 POLE
2 - 20 AMP. TYPE EB FRAME 3 POLE
1 - 30 AMP. TYPE EB FRAME 3 POLE
2 - 20 AMP. TYPE EB FRAME 1 POLE
1 - 100 AMP. TYPE EB FRAME 3 POLE
 4. ELEVATOR 600 VOLT DISCONNECT SWITCH WITH 50 AMP. TIME DELAY FUSES

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: F. MC KNIGHT DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Long
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
ELECTRICAL
FIRST FLOOR PLAN - POWER

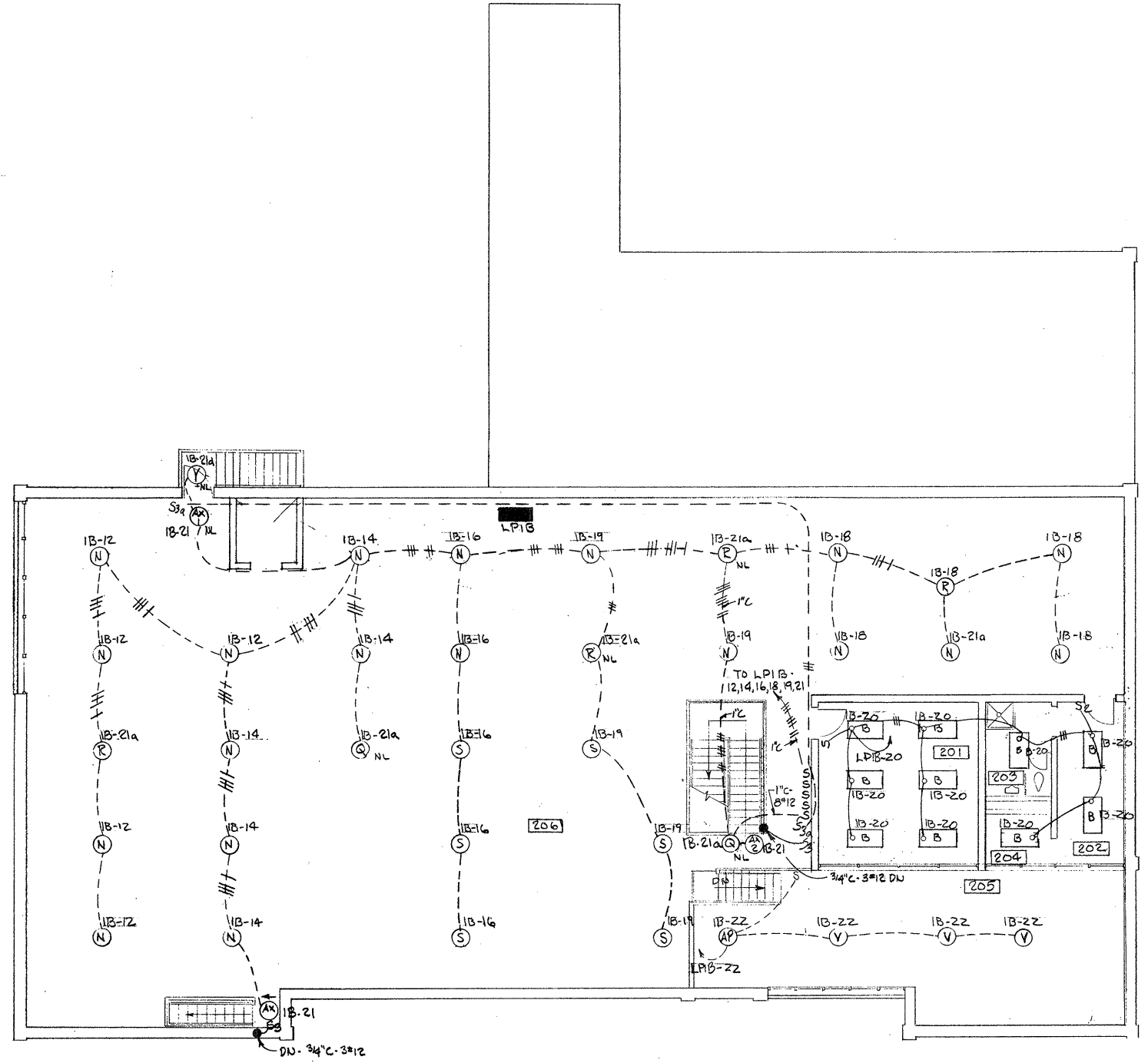
SCALE
 AS NOTED

CEM NO. 1981

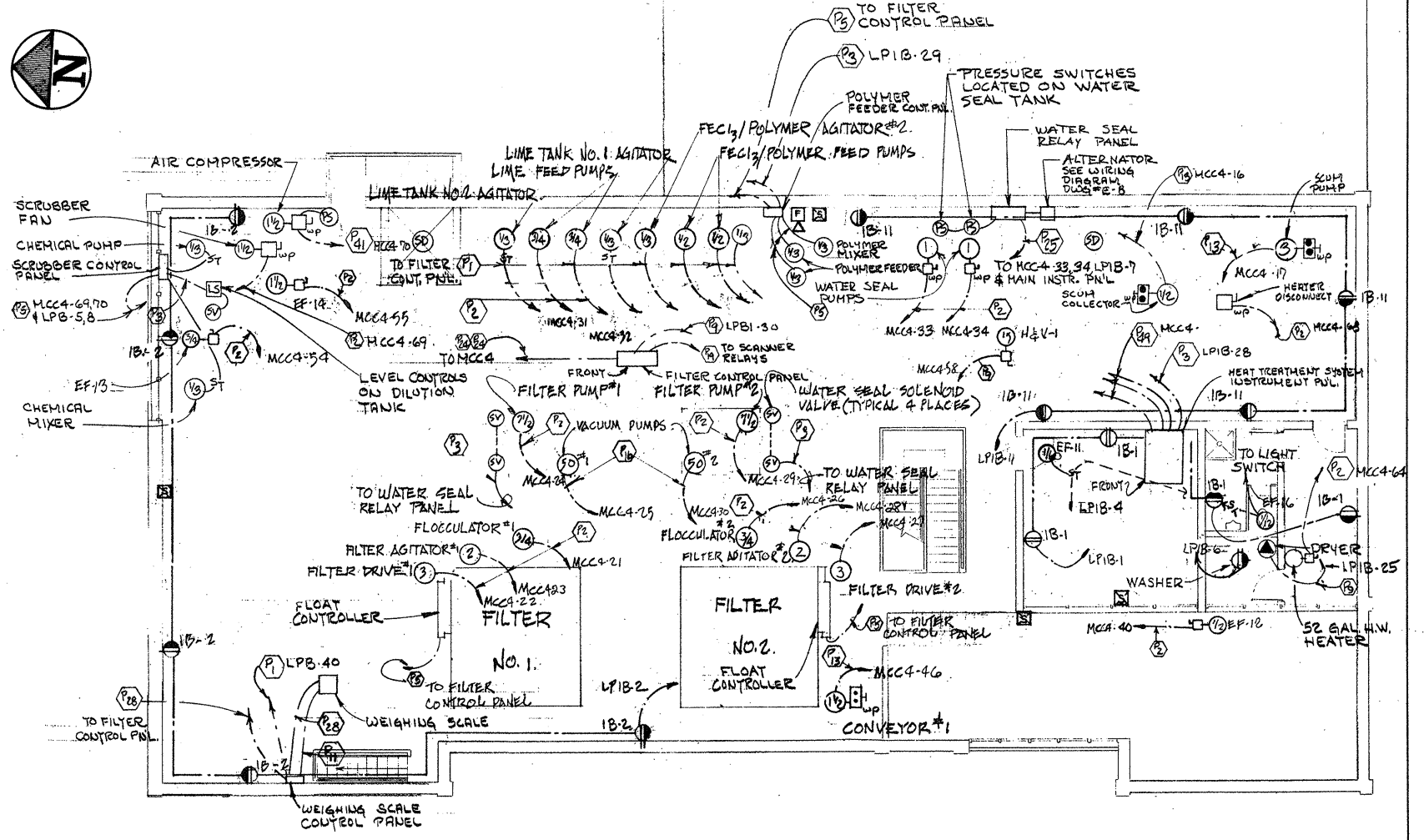
DRAWING NO.
E-14

CIRCUIT NO.	BRKR.	DESCRIPTION	H.P.	K.W.	AMP.			WIRE SIZE	REMARKS
					A#	B#	C#		
1	20	Locker Rm. Recept.		1.440	12.0		12		
2	20	Filter Rm. Recept.		1.800	15.0		12		
3	20	Spare							
4	20	EF-11 & EF-16	1/2		6.6		12		
5	20	Chemical Mixer	1/3		7.2		12		
6	20	Washer Recept.	1/3		7.2		12		
7	20	Water Seal Relay Pn'l		.480	4.0		12		
8	20	Chemical Pump	1/3		7.2		12		
9	20	Scanner Relays		.480	4.0		12	Provide Lockout	
10	20	Spare					12		
11	20	Filter Rm. Recept.		1.800	15.0		12		
12	20	Filter Rm. - Ltg.		1.375	11.5		12		
13	20	Spare					12		
14	20	Filter Rm. - Ltg.		1.375	11.5		12		
15	20	Spare					12		
16	20	Filter Rm. - Ltg.		1.375	11.5		12		
17	20	Spare					12		
18	20	Filter Rm. - Ltg.		1.650	13.8		12		
19	20	Filter Rm. - Ltg.		1.375	11.5		12		
20	20	Control & Locker - Ltg.		.920	8.0		12		
21	20	Filter Rm. - Ltg.		1.575	13.1		12		
22	20	Reactor Area		1.800	15.0		12		
23	20	Spare					12		
24	20	Spare					12		
25	20	Driver Recept.		4.500	21.6		10		
26	20	Spare					12		
27	20	Spare					12		
28	20	Heat Treatment Panel			5.0	5.0	12	Provide Lockout	
29	20	Polymer Control Pnl.			7.2	7.2	12	Provide Lockout	
30	20	Filter Control Pnl.			20.0	20.0	10	Provide Lockout	
TOTALS				22,545	91.5	126.3	114.9		

NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DNG. NO. E-2.



LIGHTING - SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



POWER - SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



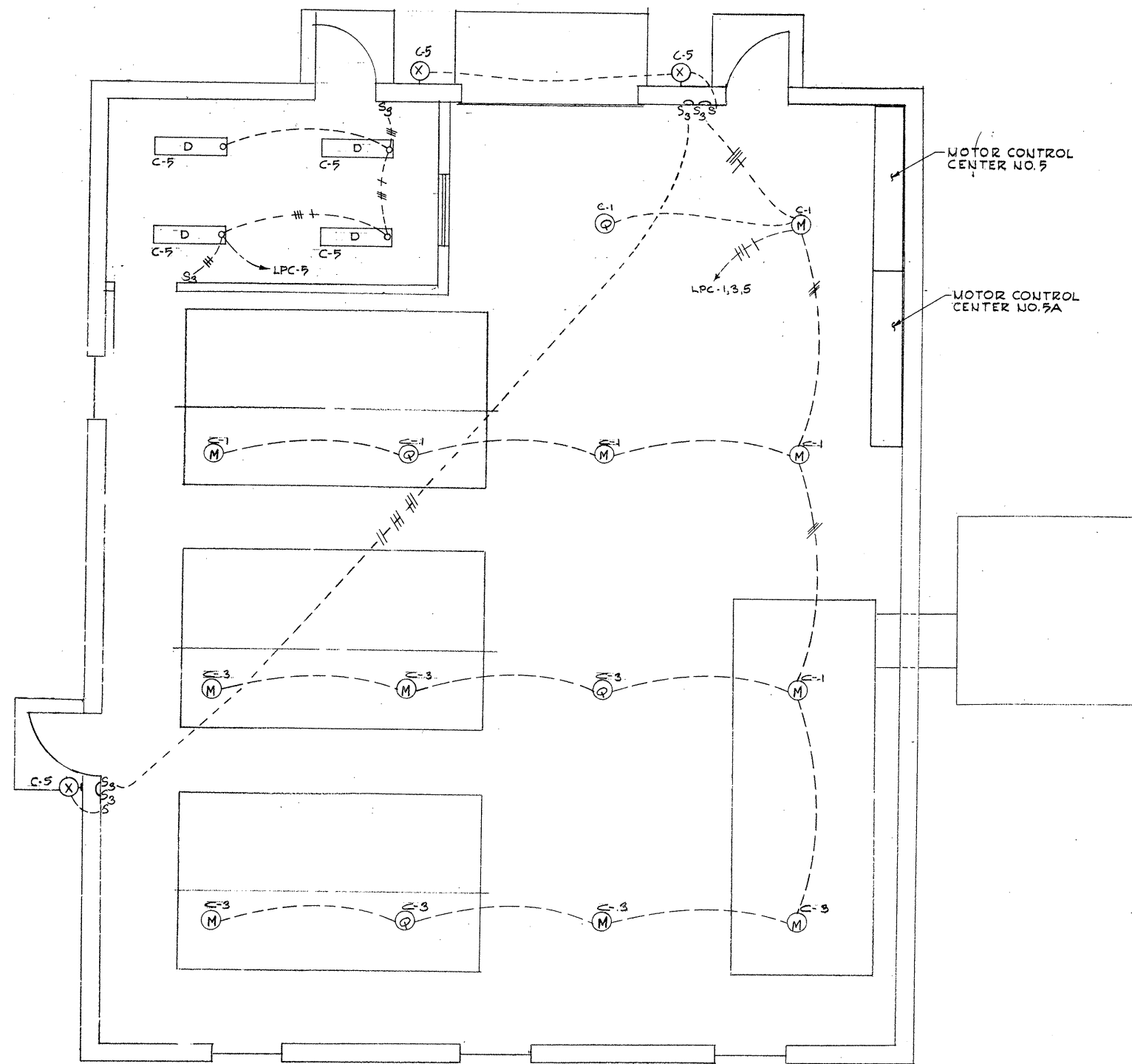
DRAWN: F. MC KNIGHT DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Clouspy
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
 ELECTRICAL
 SECOND FLOOR - POWER & LIGHTING

SCALE
AS NOTED
 CEM NO. 1981
 DRAWING NO.
E-15



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

PANEL LPC									
120/208 VOLT 3 PHASE 4 WIRE - SOLID NEUTRAL									
AMP. MAIN									
LOCATION Motor Control Center No. 5A									
MOUNTING									
CIRCUIT NO.	BRKR.	DESCRIPTION	HORSE POWER	K.W.	AMP.			WIRE SIZE	REMARKS
					AS	BS	CS		
1	1	Oxygen Area - Ltg.		1.750	14.6			12	
2	1	Spare						12	
3	1	Oxygen Area - Ltg.		1.750		14.6		12	
4	1	Spare						12	
5	1	Oxygen Area - Ltg.		.550			4.6	12	
6	1	Spare						12	
7	1	Oxygen Area - Recept.		1.080	9.0			12	
8	1	Oxygen Area - Recept.		.720	6.0			12	
9	1	Oxygen Area		1.080	9.0			12	
10	1	Exhaust Fan No.35	1/12			2.2		12	
11	1	Hot Water Heater		1.000			8.3	12	
12	1	Scanner Relay		.480			4.0	12	Provide lockout
13	1	Oil Heater No.1		1.000	8.3			12	Provide lockout
14	1	Oil Heater No.2		1.000	8.3			12	Provide lockout
15	1	Oil Heater No.3		1.000	8.3			12	Provide lockout
16	1	Cooling Tower Control Pn'1		.480			4.0	12	Provide lockout
17	1	F.A. Terminal Cabinet		.480			4.0	12	Provide lockout
18	1	Dissolution Flowmeter Valve		.480			4.0	10	Provide lockout
19	1	Dissolution Flowmeter Valve		.480	4.0			10	
20	1	Spare							
21	1	Spare							
22	3	Oxygen Power Pn'1		8.000	20.0	20.0	20.0	10	Provide lockout
23	3	Oxygen Instr. Panel		4.000	10.0	10.0	10.0	12	Provide lockout
24	3	Oxygen Instr. Panel		4.000	10.0	10.0	10.0	12	Provide lockout
25	3	Purge Control Cabinet #1		4.000	10.0	10.0	10.0	10	Provide lockout
26	3	Purge Control Cabinet #2		4.000	10.0	10.0	10.0	10	Provide lockout
27	3	Purge Control Cabinet #3		4.000	10.0	10.0	10.0	10	Provide lockout
28	3	Purge Control Cabinet #4		4.000	10.0	10.0	10.0	10	Provide lockout
29	1	Spare							
30	1	Spare							
31	1	Spare							
TOTALS				11.6	47.740	136.4	122.5	114.7	

NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2

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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



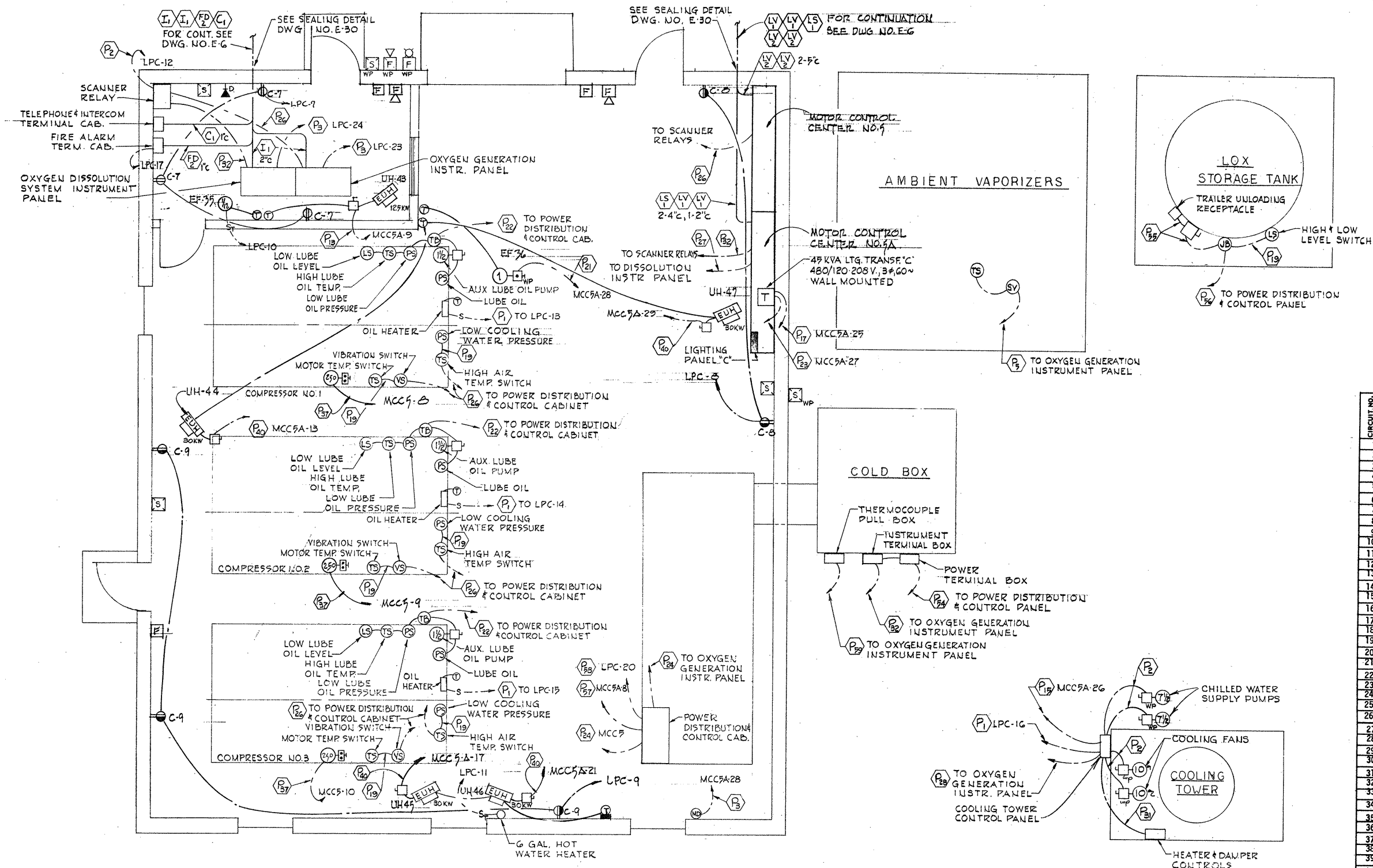
DRAWN: T. KARAS DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OXYGEN GENERATION BUILDING
ELECTRICAL LIGHTING PLAN

SCALE
 AS NOTED
 CEM NO. 1981
 DRAWING NO.
E-16



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



PANEL LPF
120/208 VOLT 3 PHASE 4 WIRE - SOLID NEUTRAL
150 AMP. MAIN Breaker
LOCATION Chemical Handling Bldg.
MOUNTING Motor Control Center No. 6

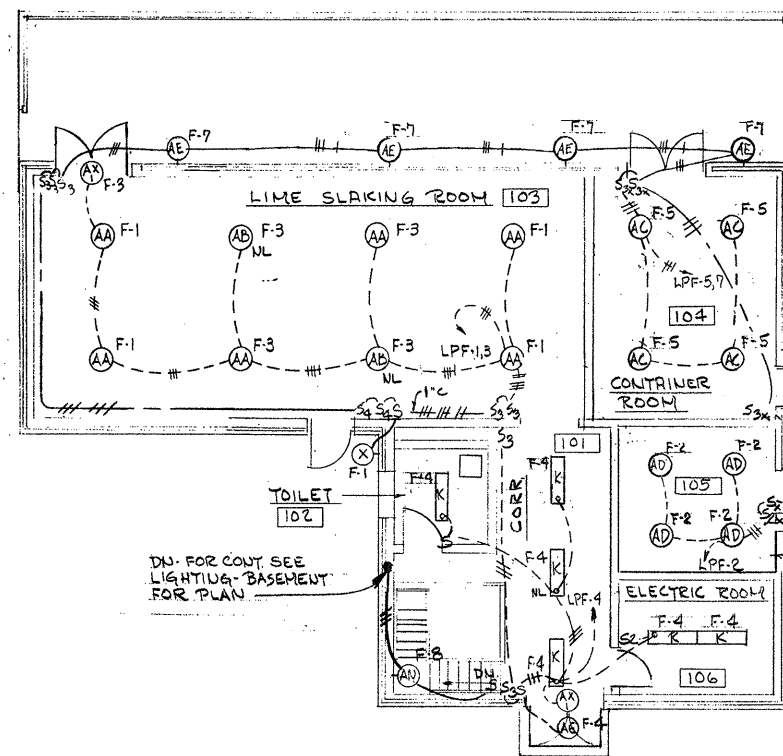
CIRCUIT NO.	BRKR.	DESCRIPTION	HORSE POWER	K.W.	AMP.	WIRE SIZE	REMARKS
					A# B# C#		
1	1	20 Lime Slaking Rm. - Ltg.		1.000	8.3		12
2	1	20 Chlorine Rm. & Outdoor Ltg.		1.200	10.0		12
3	1	20 Lime Slaking Rm. - Ltg.		1.000	8.3		12
4	1	20 Corridor & Toilet - Ltg.		.752	6.3		12
5	1	20 Container Rm. - Ltg.		.800		6.7	12
6	1	20 Basement Lighting		.320		8.0	12
7	1	20 Loading Dock - Lighting		1.000	8.3		12
8	1	20 Basement Lighting		1.020	8.5		12
9	1	20 Container Rm. - Recept.		1.080		9.0	12
10	1	20 Basement - Receptacles		1.440		12.0	12
11	1	20 Chlorine & Electric - Recept.		1.440		12.0	12
12	1	20 Basement - Receptacles		1.440		12.0	12
13	1	20 Slaking Rm. - Recept.		1.080	9.0		Provide Ground Fault
14	1	20 Chlorine Residual Analyzer		.120	1.0		12
15	1	20 Liquid Sampler		.480		4.0	12
16	1	20 Chlorine Leak Detector		.240		2.0	12
17	1	20 Moisture Detection Controls		.480		4.0	12 Provide Lockout
18	1	20 Lime Slurry Pump #1	1/4			5.0	12
19	1	20 Lime Slurry Pump #2	1/4			5.8	12
20	1	20 Water Seal Pump Controls		.240	2.0		12 Provide Lockout
21	1	20 Lime Slaker No. 1		1.200		10.0	12 Provide Lockout
22	1	20 UH-32, 33, 35	1/12, 1/8, 1/12			8.4	12
23	1	20 Corridor & Outdoor Nit. Lights		.492		4.1	12
24	1	20 UH-36, 37	1/8, 1/4			11.6	12
25	1	20 UH-25	1/4			5.8	12
26	1	20 EF-26 & 27	1/4, 1/6			10.2	12
27	1	20 UH-40, 41, 42	1/8, 1/8, 1/8			8.7	12
28	1	20 UH-38, 39	1/8, 1/8			5.8	12
29	1	20 Temp. Control Cab.		.680		4.0	12 Provide lockout
30	1	20 Boiler Control Panel	1/4			5.8	12 Provide lockout
31	1	20 Fire Alarm Term. Cab.		.120	1.0		12 Provide lockout
32	1	20 Chlorinators No. 1 & 2		.600	5.0		12
33	1	20 Evaporators		.960		8.0	12
34	1	20 Hot Water Heater		1.000		8.3	12
35	1	20 Air Dryer	1/3			7.2	12
36	1	20 Lime Slaker No. 2		1.200		10.0	12 Provide Lockout
37	1	20 Plant Water Pumps Alt.		.240	2.0		12 Provide lockout
38	1	20 Slurry Tanks Level Cont.		.480	4.0		12 Provide lockout
39	1	20 Lime Slurry Pumps Cont. Ph 1		.480		4.0	12 Provide lockout
40	1	20 Scanner Relays		.480	4.0		12 Provide lockout
41	1	20 Instrument Panel		.480		4.0	12 Provide lockout
42	1	20 Spare					
43	1	20 Spare					
44	1	20 Spare					
45	1	20 Spare					
46	1	20 Spare					
TOTALS				24,100	20.9	28.1	91.2

NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2

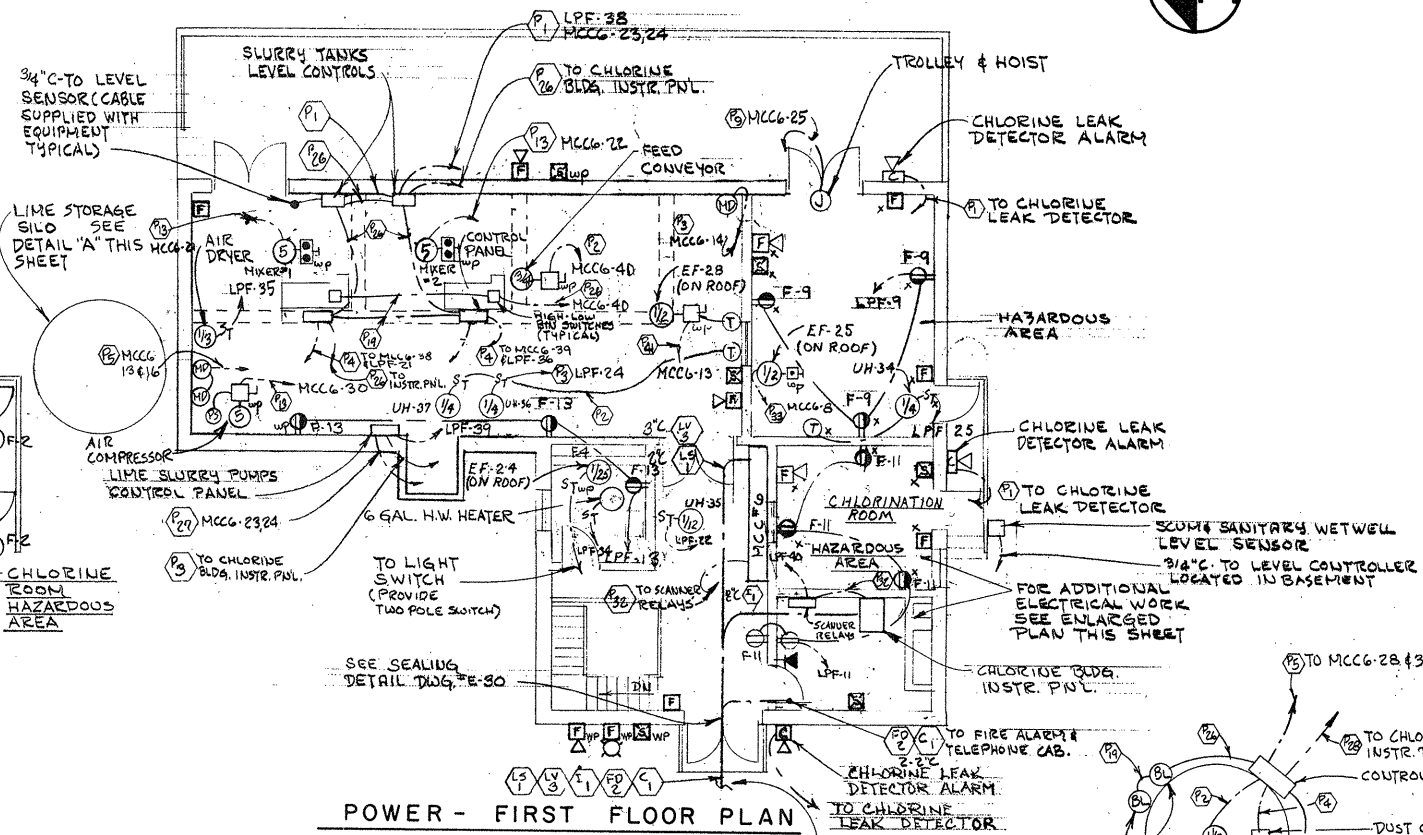
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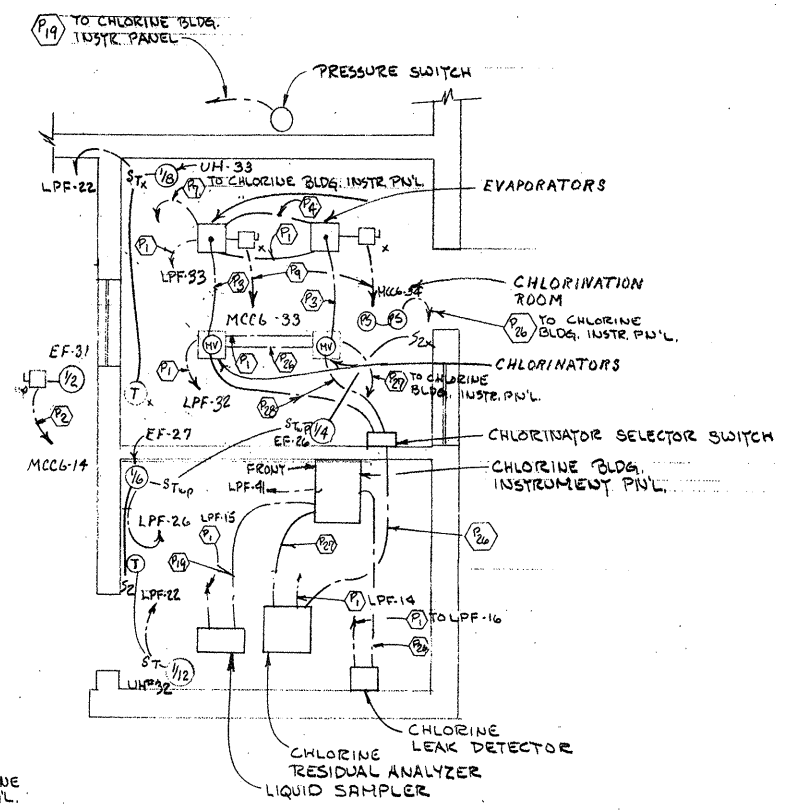
DRAWN: T. KARAS CHECKED: G. GACHOWSKI DATE: JULY, 1974	DESIGNED: A. CLOUSPY APPROVED: J. LITTLEJOHN	CITY OF TAUNTON, MASSACHUSETTS WASTEWATER TREATMENT FACILITY ADDITIONS & IMPROVEMENTS OXYGEN GENERATION BUILDING ELECTRICAL POWER PLAN	SCALE AS NOTED CEM NO. 1981
CE MAGURE, INC. ARCHITECTS • ENGINEERS • PLANNERS PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.			APPROVED CITY OF TAUNTON



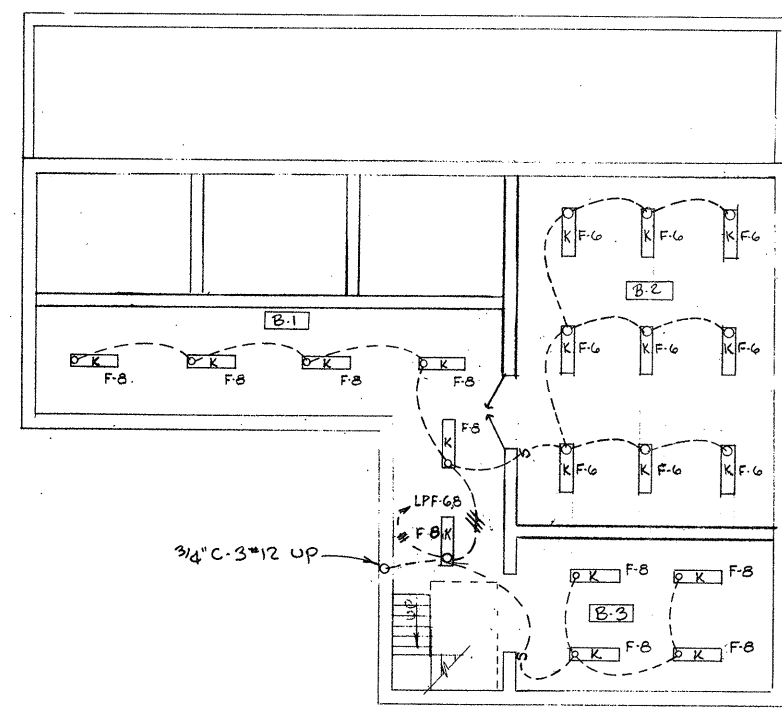
LIGHTING - FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



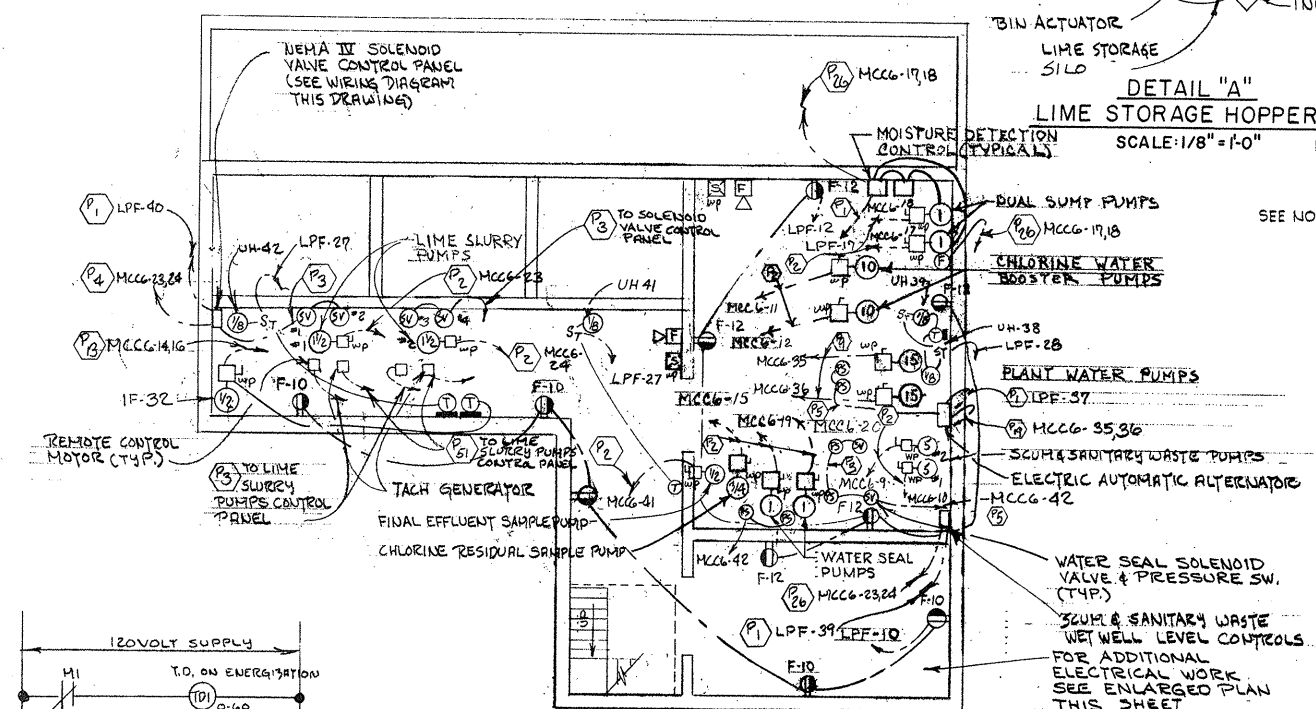
POWER - FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



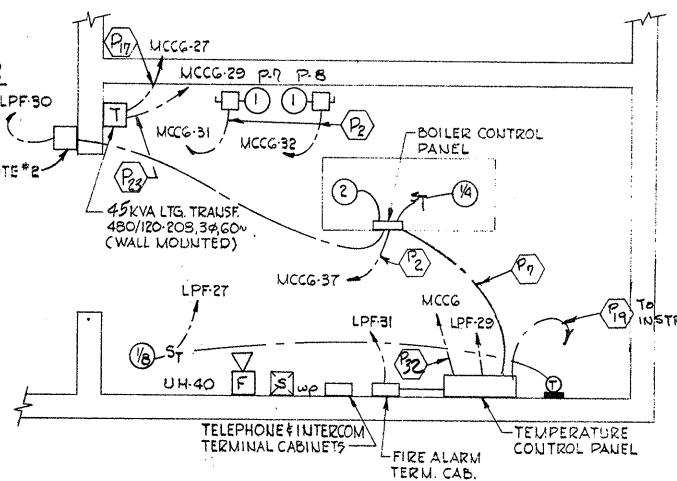
ENLARGED POWER PLAN
CHLORINATION & CONTROL ROOMS
SCALE: 1/4" = 1'-0"



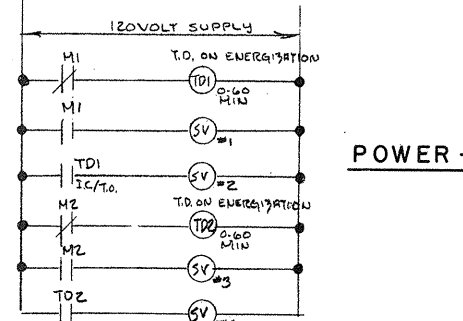
LIGHTING - BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"



POWER - BASEMENT FLOOR PLAN
SCALE: 1/8" = 1'-0"



ENLARGED POWER PLAN - BOILER ROOM
SCALE: 1/8" = 1'-0"



SOLENOID VALVE CONTROL PNL. WIRING DIAGRAM

- NOTES:
- FOR GENERAL NOTES & LEGEND. SEE DWG. NO. E-2.
 - BOILER DISCONNECT SWITCH SHALL BE PAINTED RED AND NAMEPLATE SHALL READ "BOILER EMERGENCY DISCONNECT." CIRCUIT SHALL BE WIRED TO DISCONNECT 480 VOLT SUPPLY.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

DRAWN: R. BURMAN DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

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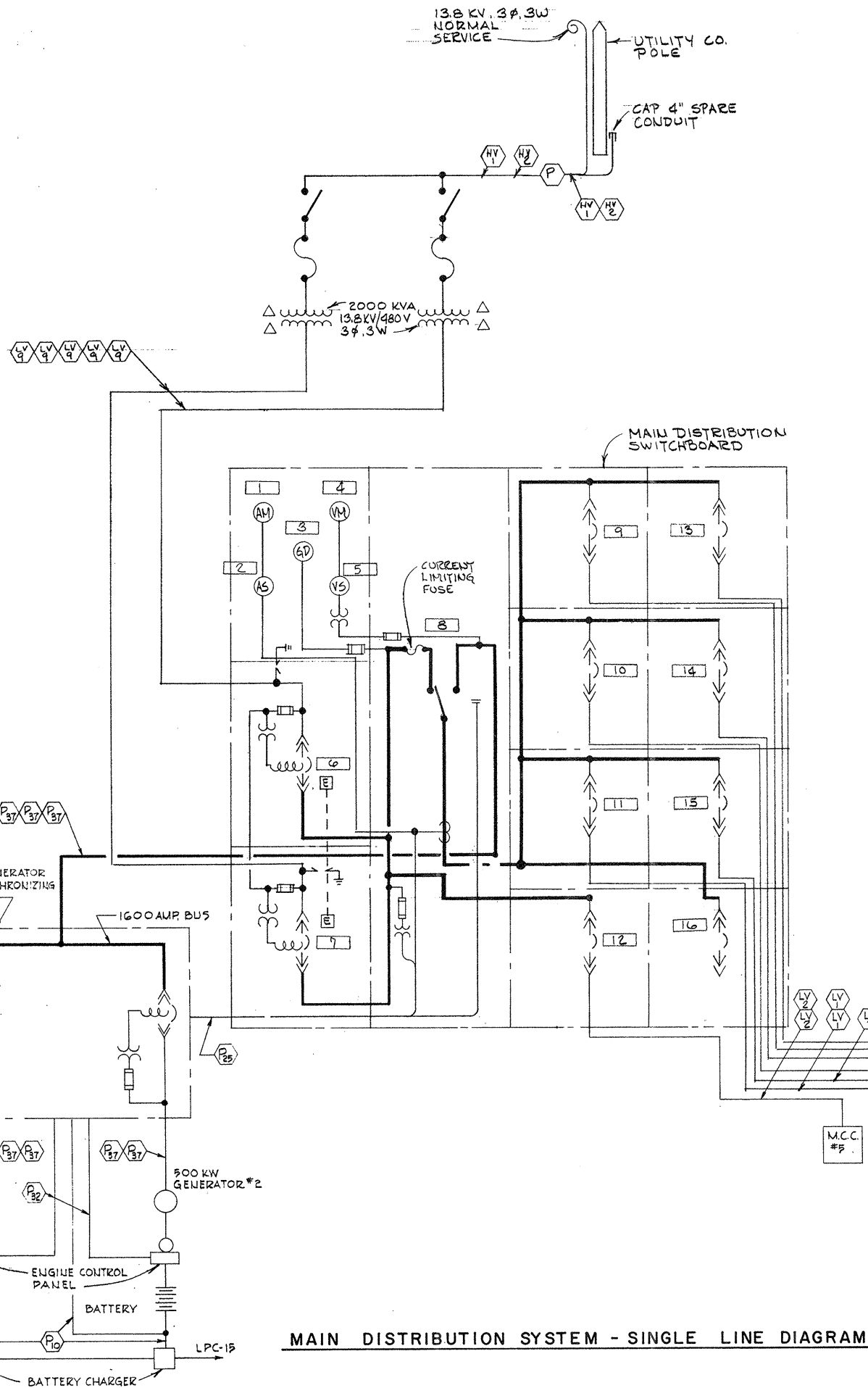
APPROVED
Charles A. Long
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 CHEMICAL HANDLING BUILDING
 ELECTRICAL
 BASEMENT & FIRST FLOOR PLANS
 POWER & LIGHTING

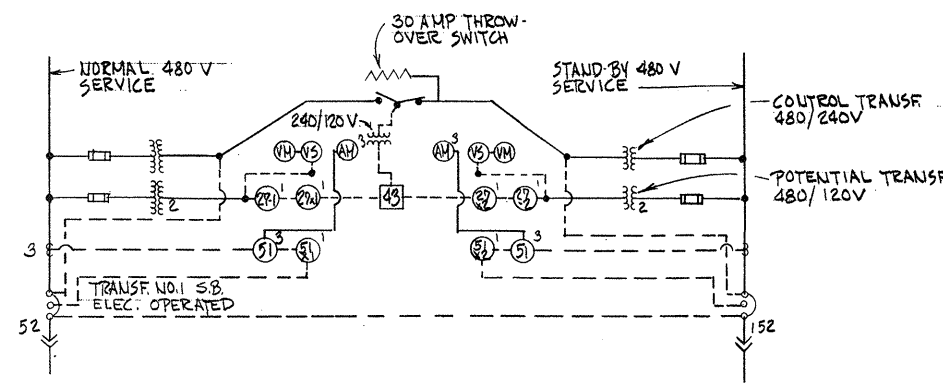
SCALE
 AS NOTED

CEM NO. 1981

DRAWING NO.
E-18



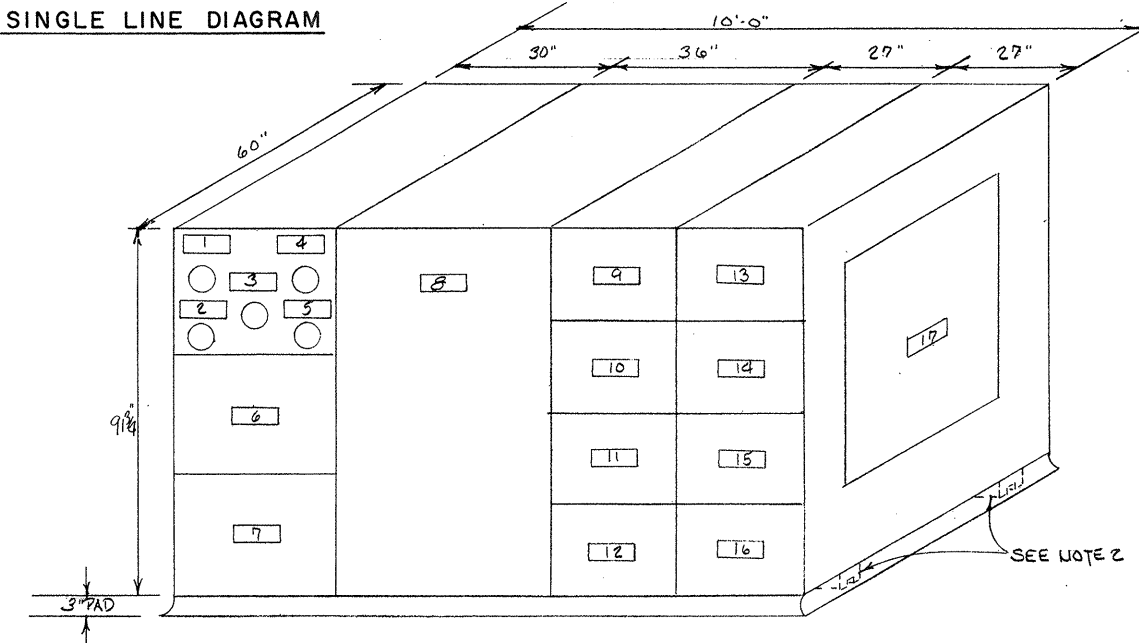
MAIN DISTRIBUTION SYSTEM - SINGLE LINE DIAGRAM



STAND BY - OPERATION SINGLE LINE DIAGRAM

- NOTES:**
- FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2
 - SHIPPING CHANNELS SHALL BE GROUDED INTO EQUIPMENT PAD

NOMENCLATURE	
52	NORMAL AIR C.B. ELECTRICALLY OPERATED
152	STAND-BY AIR C.B. ELECTRICALLY OPERATED
51	OVERCURRENT RELAY
51X	OVERCURRENT AUX. RELAY-TYPE "WL" - HAND RESET
27	UNDERVOLTAGE RELAY
27X	UNDERVOLTAGE AUX. RELAY-TYPE "MG-6" SELF-RESET
AM	AMMETER
VM	VOLT METER
VS	VOLT METER SWITCH
GD	GROUND DETECTOR UNIT
43	TRANSFER SWITCH - MANUAL RESET



ELEVATION - MAIN DISTRIBUTION SWITCHBOARD

MAIN DISTRIBUTION SWITCHBOARD SCHEDULE									
PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	OPERATIONS	IC AT RATED VOLTAGE	VOLT-AGE RATING	LUG SIZE	PHASE NO. SIZE	NAMEPLATE INSCRIPTION	REMARKS
1	-	-	-	-	-	-	-	AMMETER	
2	-	-	-	-	-	-	-	AMMETER SWITCH	
3	-	-	-	-	120	-	-	GROUND DETECTION	
4	-	-	-	-	0-600	-	-	VOLTMETER	
5	-	-	-	-	120	-	-	VOLTMETER SWITCH	
6	3000	3000	ELECTRIC	65,000	3 600	15	150	MAIN CIRCUIT BREAKER (NORMAL)	PROVIDE LIGHTNING ARRESTORS
7	3000	3000	ELECTRIC	65,000	3 600	-	-	MAIN CIRCUIT BREAKER (STAND BY)	PROVIDE LIGHTNING ARRESTORS
8	-	-	ELECTRIC	-	-	-	-	AUTOMATIC TRANSFER SWITCH	2500 AMPS
9	1600	400	ELECTRIC	50,000	3 600	3	500	MOTOR CONTROL CENTER #6	
10	1600	850	ELECTRIC	50,000	3 600	6	500	MOTOR CONTROL CENTER #4	
11	1600	850	ELECTRIC	50,000	3 600	6	500	MOTOR CONTROL CENTER #5A	
12	1600	1300	ELECTRIC	50,000	3 600	6	500	MOTOR CONTROL CENTER #5	
13	1600	450	ELECTRIC	50,000	3 600	3	500	MOTOR CONTROL CENTER #3	
14	1600	350	ELECTRIC	200,000	3 600	3	500	MOTOR CONTROL CENTER #2	
15	1600	500	ELECTRIC	50,000	3 600	3	500	MOTOR CONTROL CENTER #1	
16	1600	-	ELECTRIC	50,000	3	-	-	SPARE	
17	-	-	-	-	120	-	-	CIRCUIT BREAKER CONTROL PUL.	

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 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Maguire
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

ELECTRICAL
MAIN DISTRIBUTION SWITCHBOARD

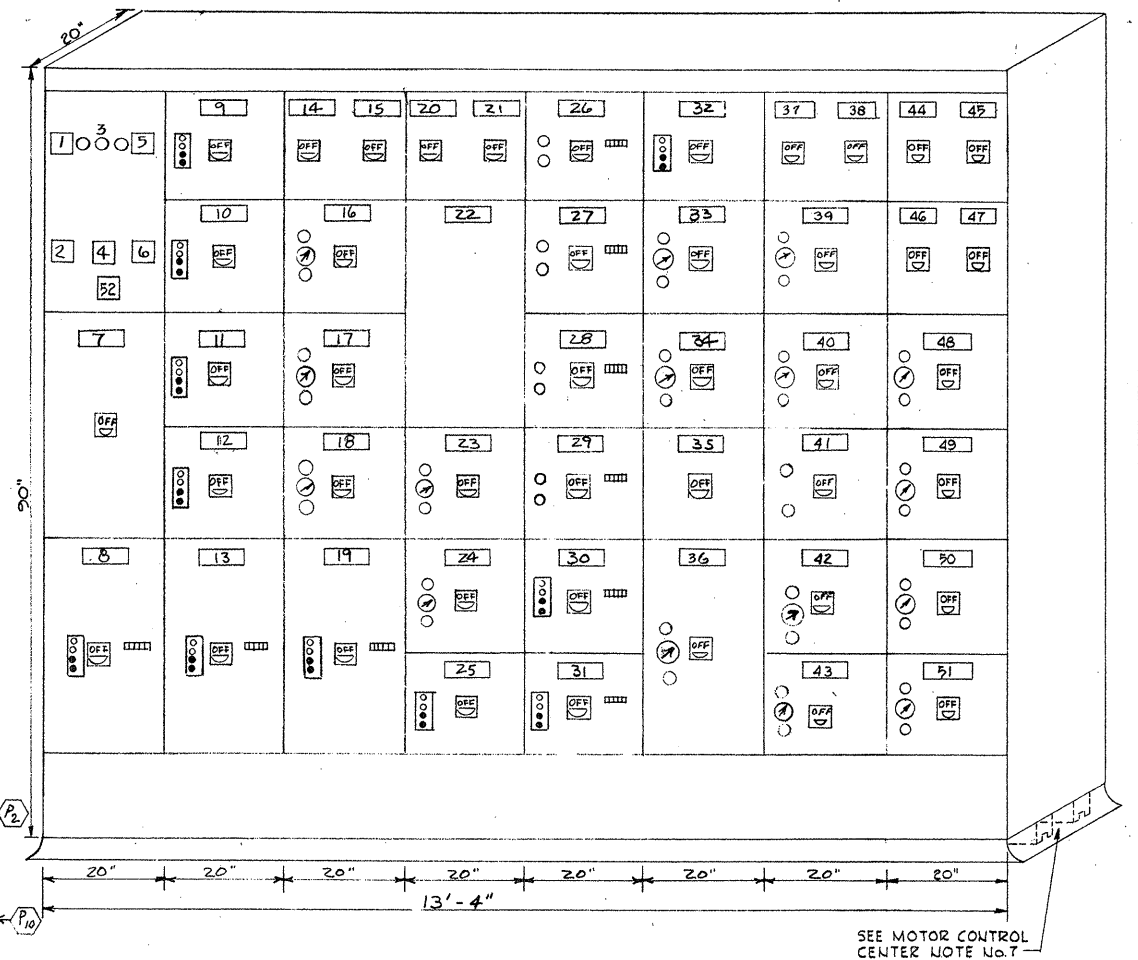
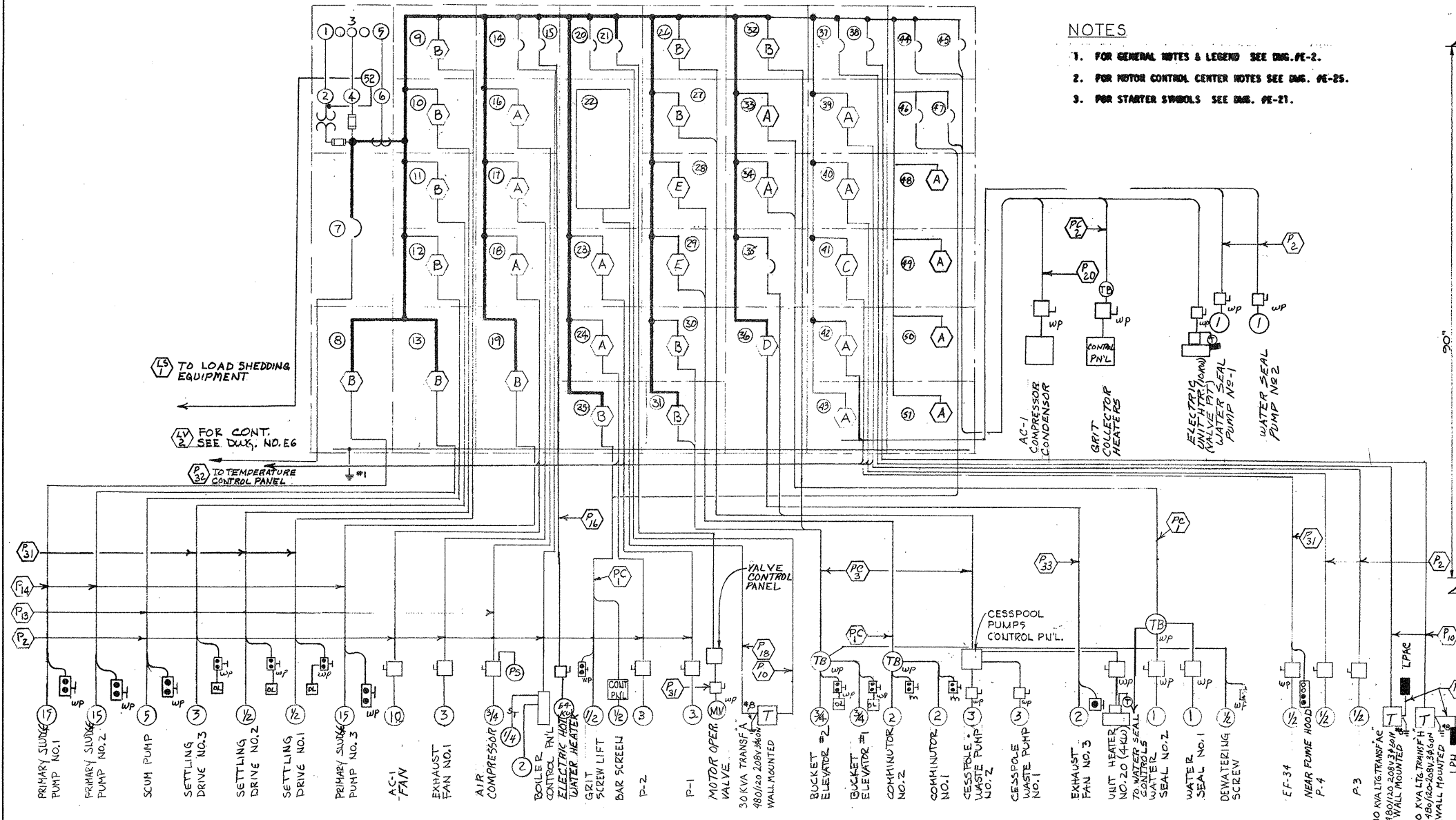
SCALE
 NOT TO SCALE

CEM NO. 1981

DRAWING NO.
E-19

NOTES

- FOR GENERAL NOTES & LEGEND SEE DWG. PE-2.
- FOR MOTOR CONTROL CENTER NOTES SEE DWG. PE-25.
- FOR STARTER SYMBOLS SEE DWG. PE-21.



MOTOR CONTROL CENTER NO. 1 ELEVATION

MOTOR CONTROL CENTER NO. 1 - SINGLE LINE DIAGRAM

MOTOR CONTROL CENTER SCHEDULE

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
1					0/600					VOLTMETER		
2					120					VOLTMETER SWITCH		
3					120					GROUND DETECTOR LAMPS		
4					120					GROUND DETECTOR SWITCH		
5	0/600									AMMETER		
6										AMMETER SWITCH		
7	600	450		3	480	3	750 MCM			MAIN SECONDARY BREAKER		
8	100	40	14,000	3	480	3	8	2	15	PRIMARY SLUDGE PUMP NO. 1	3, 4, 8, 13	
9	100	15	14,000	3	480	3	12	1	1/2	SETTLING DRIVE NO. 1	3, 8, 20	
10	100	15	14,000	3	480	3	12	1	1/2	SETTLING DRIVE NO. 2	3, 8, 20	
11	100	15	14,000	3	480	3	12	1	3	SETTLING DRIVE NO. 3	3, 8, 20	
12	100	20	14,000	3	480	3	12	1	5	SCUM PUMP	3, 8	
13	100	40	14,000	3	480	3	8	2	15	PRIMARY SLUDGE PUMP NO. 2	3, 4, 8, 13	
14	100	20	14,000	3	480	3	12			BOILER		
15	100	90	14,000	3	480	3	4			ELECTRIC HOT WATER HEATER	54 KW	

MOTOR CONTROL CENTER SCHEDULE

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
16	100	15	14,000	3	480	3	12	1	3/4	AIR COMPRESSOR		2, 8
17	100	15	14,000	3	480	3	12	1	3	EXHAUST FAN NO. 1		2, 8
18	100	20	14,000	3	480	3	12	1	10	AC-1 FAN		2, 8
19	100	40	14,000	3	480	3	8	2	15	PRIMARY SLUDGE PUMP NO. 3	3, 4, 8, 13	
20	100	50	14,000	3	480	3	8			LIGHTING TRANSFORMER "A"		
21	100	20	14,000	3	480	3	12			MOTOR OPERATED VALVE		
22										LIGHTING PANEL "A"		
23	100	15	14,000	3	480	3	12	1	3	CIRCULATING PUMP P-1		2, 8
24	100	15	14,000	3	480	3	12	1	3	CIRCULATING PUMP P-2		2, 8
25	100	15	14,000	3	480	3	12	1	1/2	GRIT SCREEN LIFT		3, 8
26	100	15	14,000	3	480	3	12	1	3	CESSPOOL WASTE PUMP NO. 1		4, 8, 13
27	100	15	14,000	3	480	3	12	1	3	CESSPOOL WASTE PUMP NO. 2		4, 8, 13
28	100	20	14,000	3	480	3	12	1	2	COMMINUTOR NO. 1		4, 8
29	100	20	14,000	3	480	3	12	1	2	COMMINUTOR NO. 2		4, 8
30	100	15	14,000	3	480	3	12	1	3/4	BUCKET ELEVATOR NO. 1		3, 4, 8
31	100	15	14,000	3	480	3	12	1	3/4	BUCKET ELEVATOR NO. 2		3, 4, 8
32	100	15	14,000	3	480	3	12	1	1/2	DEWATERING SCREW		3,

MOTOR CONTROL CENTER SCHEDULE

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
33	100	15	14,000	3	480	3	12	1	1	WATER SEAL NO. 1		2, 8, 13
34	100	15	14,000	3	480	3	12	1	1	WATER SEAL NO. 2		2, 8, 13
35	100	15	14,000	3	480	3	12			UNIT HEATER NO. 20	(4 KW)	
36	100	15	14,000	3	480	6	12	1	2	EXHAUST FAN NO. 3		14, 15
37	100	50	14,000	3	480	3	8			LIGHTING TRANSFORMER "A"		
38	100	50	14,000	3	480	3	8			LIGHTING TRANSFORMER "H"		
39	100	15	14,000	3	480	3	12	1	1/2	CIRCULATING PUMP P-3		2, 8
40	100	15	14,000	3	480	3	12	1	1/2	CIRCULATING PUMP P-4		2, 8
41	100	15	14,000	3	480	3	12	1	1/2	EF-34		2, 8, 19
42	100	15	14,000	3	480	3	12	1	1	WATER SEAL PUMP #1		2, 8, 13
43	100	15	14,000	3	480	3	12	1	1	WATER SEAL PUMP #2		2, 8, 13
44	100	65	14,000	3	480	3	6			AC-1 COMPRESSOR cond.		
45	100	30	14,000	3	480	3	10			GRIT COLLECTOR HEATER		
46	100	20	14,000	3	480	3	12			BLANK	SPARE	2, 8
47	100	20	14,000	3	480	3	10			BLANK	SPARE	2, 8
48	100	20	14,000	3	480	3	12	1		BLANK	SPARE	2, 8
49	100	20	14,000	3	480	3	12	1		BLANK	SPARE	2, 8
50	100	20	14,000	3	480	3	12	1		BLANK	SPARE	2, 8
51	100	20	14,000	3	480	3	12	1		BLANK	SPARE	2, 8
52										LOAD SHEDDING RELAYS		

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DRAWN: J. CALIGURI DESIGNED: A. CLOUSPY
CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
DATE: JULY, 1974

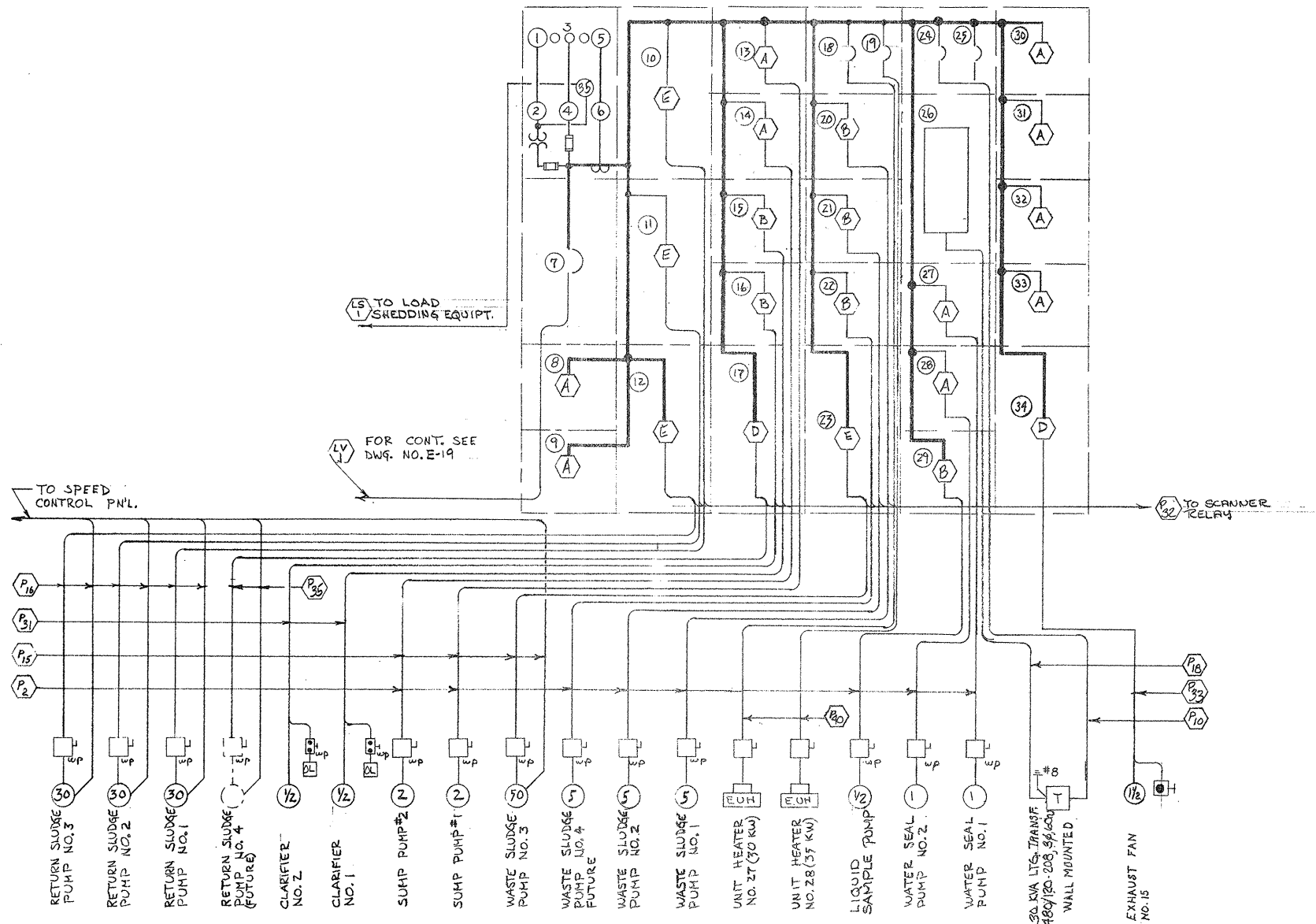


CE MAGUIRE, INC.
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PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

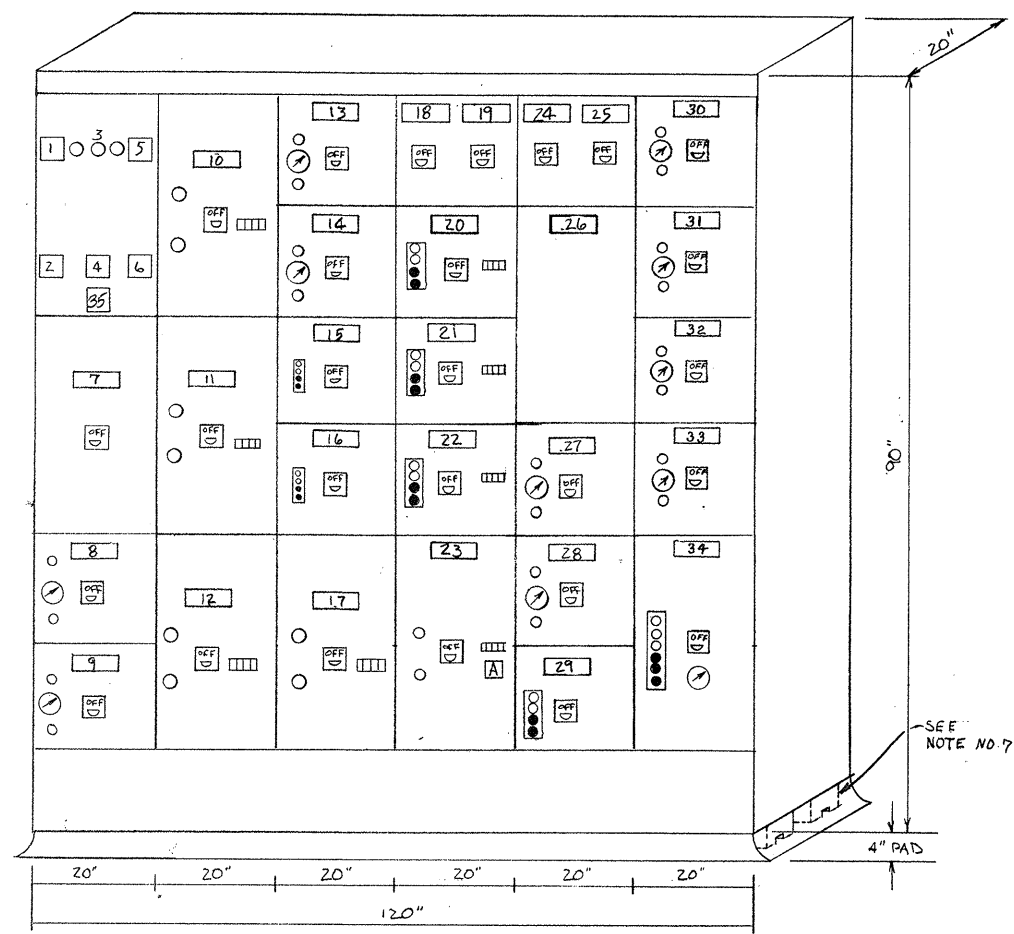
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CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
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OPERATIONS BUILDING
ELECTRICAL
MOTOR CONTROL CENTER NO. 1

SCALE
NOT TO SCALE
CEM NO. 1981
DRAWING NO.
E-20



MOTOR CONTROL CENTER NO. 3 - SINGLE LINE DIAGRAM



MOTOR CONTROL CENTER NO. 3 - ELEVATION

MOTOR CONTROL CENTER SCHEDULE NO. 3

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
17	100	70	14,000	3	480	3	4	3	30	RETURN SLUDGE PUMP NO. 4 (FUTURE)		4, 8, 11, 13
18	100	60	14,000	3	480	3	6	-	-	UNIT HEATER NO. 27 (30 KW)		
19	100	60	14,000	3	480	3	6	-	-	UNIT HEATER NO. 28 (35 KW)		
20	100	20	14,000	3	480	3	12	1	5	WASTE SLUDGE PUMP NO. 1		3, 4, 8, 13
21	100	20	14,000	3	480	3	12	1	5	WASTE SLUDGE PUMP NO. 2		3, 4, 8, 13
22	100	20	14,000	3	480	3	12	1	5	WASTE SLUDGE PUMP NO. 3		3, 4, 8, 13
23	100	100	14,000	3	480	3	3	3	50	WASTE SLUDGE PUMP NO. 4 (FUTURE)		4, 6, 8, 11, 13
24	100	50	14,000	3	480	3	8	-	-	LTG. TRANSFORMER 'E'		
25	100	20	14,000	3	480	3	12	-	-	SPARE		
26	-	-	-	-	-	-	-	-	-	LTG. PANEL		
27	100	15	14,000	3	480	3	12	1	1	WATER SEAL PUMP NO. 1		2, 8, 13
28	100	15	14,000	3	480	3	12	1	1	WATER SEAL PUMP NO. 2		2, 8, 13
29	100	15	14,000	3	480	3	12	1	1/2	LIQUID SAMPLE PUMP		5, 8
30	100	15	14,000	3	480	3	12	1	-	SPARE		2, 8
31	100	15	14,000	3	480	3	12	1	-	SPARE		2, 8
32	100	20	14,000	3	480	3	12	1	-	SPARE		2, 8
33	100	20	14,000	3	480	3	12	1	-	SPARE		2, 8
34	100	15	14,000	3	480	6	12	1	1-1/2	EXHAUST FAN NO. 15		10, 14
35										LOAD SHEDDING EQUIPMENT		

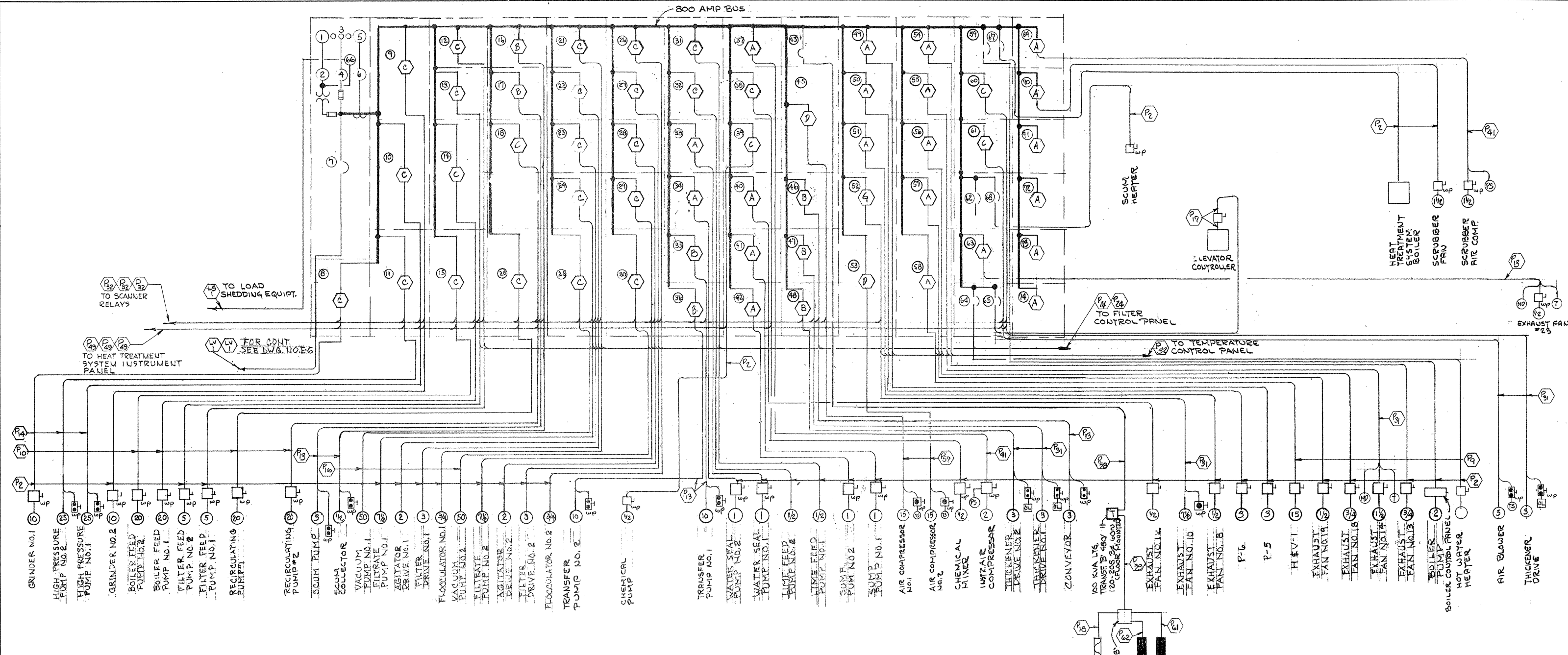
MOTOR CONTROL CENTER SCHEDULE NO. 3

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
1					0/600					VOLTMETER		
2					120					VOLTMETER SWITCH		
3					480					GROUND DETECTOR LAMP		
4					480					GROUND DETECTOR SWITCH		
5	0/600									AMMETER		
6										AMMETER SWITCH		
7	800	400	30,000	3	480	5	500MCM	-	-	MAIN SECONDARY BREAKER		
8	100	20	14,000	3	480	3	12	1	-	SPARE		2, 8
9	100	20	14,000	3	480	3	12	1	-	SPARE		2, 8
10	100	70	14,000	3	480	3	4	3	30	RETURN SLUDGE PUMP NO. 1		4, 8, 11, 13
11	100	70	14,000	3	480	3	4	3	30	RETURN SLUDGE PUMP NO. 2		4, 8, 11, 13
12	100	70	14,000	3	480	3	4	3	30	RETURN SLUDGE PUMP NO. 3		4, 8, 11, 13
13	100	15	14,000	3	480	3	12	1	2	SUMP PUMP NO. 1		2, 8
14	100	15	14,000	3	480	3	12	1	2	SUMP PUMP NO. 2		2, 8
15	100	15	14,000	3	480	3	12	1	1/2	CLARIFIER NO. 1		3, 8
16	100	15	14,000	3	480	3	12	1	1/2	CLARIFIER NO. 2		3, 8

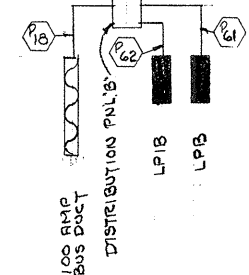
- NOTES:
- FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
 - FOR MOTOR CONTROL CENTER NOTES SEE DWG. NO. E-25.
 - FOR STARTER SYMBOLS SEE DWG. NO. E-21.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

DRAWN: T. KARAS		DESIGNED: A. CLOUSPY		CITY OF TAUNTON, MASSACHUSETTS		SCALE	
CHECKED: G. GACHOWSKI		APPROVED: J. LITTLEJOHN		WASTEWATER TREATMENT FACILITY		NOT TO SCALE	
DATE: JULY, 1974				ADDITIONS & IMPROVEMENTS		CEM NO. 1981	
CE MAGUIRE, INC.		ARCHITECTS • ENGINEERS • PLANNERS		SLUDGE PUMPING STATION NO. 2		DRAWING NO.	
PROVIDENCE, R.I.		WETHERSFIELD, CONN.		ELECTRICAL		E-22	
				MOTOR CONTROL CENTER NO. 3			



MOTOR CONTROL CENTER NO. 4 - SINGLE LINE DIAGRAM



- NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
 2. FOR MOTOR CONTROL CENTER NOTES SEE DWG. NO. E-25.
 3. FOR STARTER SYMBOLS SEE DWG. NO. E-21.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: T. KARAS DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles G. Cloupy
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING

**ELECTRICAL
 MOTOR CONTROL CENTER NO. 4
 SINGLE LINE DIAGRAM**

SCALE
 NOT TO SCALE

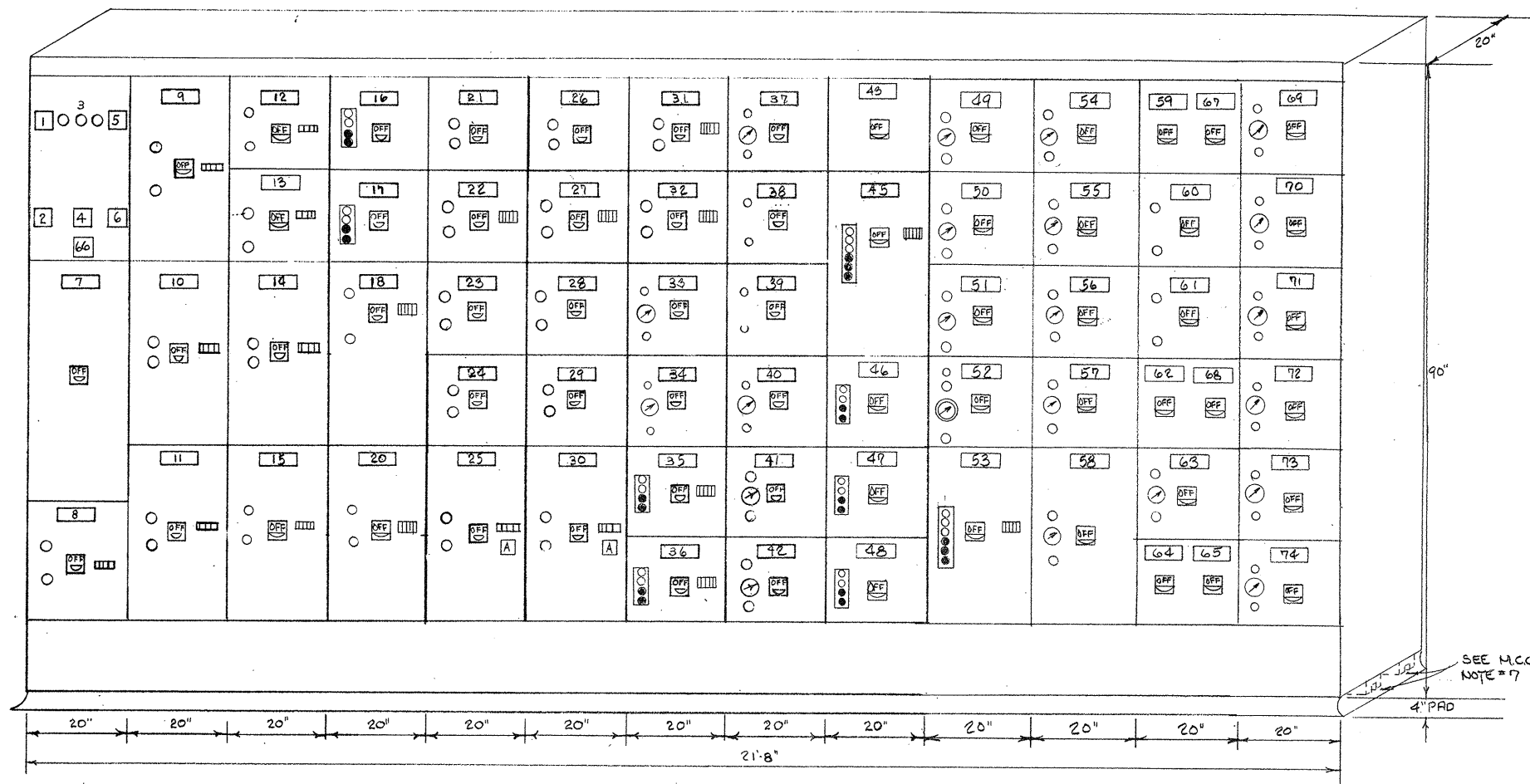
CEM NO. 1981

DRAWING NO.
E-23

NOTES:

1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
2. FOR MOTOR CONTROL CENTER NOTES SEE DWG. NO. E-25.
3. FOR STARTER SYMBOLS SEE DWG. NO. E-21.

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED



MOTOR CONTROL CENTER NO. 4 - ELEVATION

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
1	-	-	-	-	0/600	-	-	-	-	VOLTMETER		
2	-	-	-	-	120	-	-	-	-	VOLTMETER SWITCH		
3	-	-	-	-	480	-	-	-	-	GROUND DETECTOR LAMPS		
4	-	-	-	-	480	-	-	-	-	GROUND DETECTOR SWITCH		
5	0/500	-	-	-	-	-	-	-	-	AMMETER		
6	-	-	-	-	-	-	-	-	-	AMMETER SWITCH		
7	800	800	30,000	3	480	6	500 MCM	-	-	MAIN SECONDARY BREAKER		
8	100	30	14,000	3	480	3	12	1	10	GRINDER NO.1		4,8
9	100	30	14,000	3	480	3	12	1	10	GRINDER NO.2		4,8
10	100	50	14,000	3	480	3	8	2	25	HIGH PRESSURE PUMP NO.1		4,8
11	100	50	14,000	3	480	3	8	2	25	HIGH PRESSURE PUMP NO.2		4,8
12	100	20	14,000	3	480	3	12	1	5	FILTER FEED PUMP NO.1		4,8
13	100	20	14,000	3	480	3	12	1	5	FILTER FEED PUMP NO.2		4,8
14	100	50	14,000	3	480	3	8	2	20	BOILER FEED PUMP NO.1		4,8
15	100	50	14,000	3	480	3	8	2	20	BOILER FEED PUMP NO.2		4,8
16	100	15	14,000	3	480	3	12	1	1/2	SCUM COLLECTOR		8,3
17	100	15	14,000	3	480	3	12	1	3	SCUM PUMP		3,8
18	100	50	14,000	3	480	3	8	2	20	RECIRCULATING PUMP #1		4,8

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
20	100	50	14,000	3	480	3	8	2	20	RECIRCULATING PUMP #2		8,4
21	100	15	14,000	3	480	3	12	1	3/4	FLOCCULATOR NO.1		8
22	100	15	14,000	3	480	3	12	1	3	FILTER DRIVE NO.1		8,4
23	100	15	14,000	3	480	3	12	1	2	AGITATOR DRIVE NO.1		8
24	100	20	14,000	3	480	3	12	1	7-1/2	FILTRATE PUMP NO.1		8,13
25	100	100	14,000	3	480	3	4	3	50	VACUUM PUMP NO.1		4,6,8,13
26	100	15	14,000	3	480	3	12	1	3/4	FLOCCULATOR NO.2		8
27	100	15	14,000	3	480	3	12	1	3	FILTER DRIVE NO.2		8,4
28	100	15	14,000	3	480	3	12	1	2	AGITATOR DRIVE NO.2		8
29	100	20	14,000	3	480	3	12	1	7-1/2	FILTRATE PUMP NO.2		8,13
30	100	100	14,000	3	480	3	4	3	50	VACUUM PUMP NO.2		4,6,8,13
31	100	15	14,000	3	480	3	12	1	1/2	LIME FEED NO.1		8,4
32	100	15	14,000	3	480	3	12	1	1/2	LIME FEED NO.2		8,4
33	100	15	14,000	3	480	3	12	1	1	WATER SEAL NO.1		2,8,13
34	100	15	14,000	3	480	3	12	1	1	WATER SEAL NO.2		2,8,13
35	100	30	14,000	3	480	3	12	1	10	TRANSFER PUMP#1		3,4,6
36	100	30	14,000	3	480	3	12	1	10	TRANSFER PUMP#2		3,4,6
37	100	15	14,000	3	480	3	12	1	2	INST. AIR COMPRESSOR		2,8
38	100	15	14,000	3	480	3	12	1	1/2	CHEMICAL MIXED		8

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
39	100	15	14,000	3	480	3	12	1	1/2	CHEMICAL PUMP		8
40	100	15	14,000	3	480	3	12	1	1/2	EXH. FAN #12		2,8
41	100	15	14,000	3	480	3	12	1	1	SUMP PUMP NO.1		2,8
42	100	15	14,000	3	480	3	12	1	1	SUMP PUMP NO.2		2,8
43	225	150	14,000	3	480	3	2	-	-	POWERTRANSF. "B"		-
45	100	40	14,000	3	480	3	10	2	15	AIR COMPRESSOR NO.1		4,9,10
46	100	15	14,000	3	480	3	12	1	1/2	CONVEYOR THICKENER DRIVE NO.1		3,8
47	100	15	14,000	3	480	3	12	1	3	THICKENER DRIVE NO.1		3,8
48	100	15	14,000	3	480	3	12	1	3	THICKENER DRIVE NO.2		3,8
49	100	15	14,000	3	480	3	12	1	3	P-5		2,8
50	100	15	14,000	3	480	3	12	1	3	P-6		2,8
51	100	15	14,000	3	480	3	12	1	1/2	EXHAUST FAN NO.8		2,8
52	100	20	14,000	3	480	3	12	1	7-1/2	EXHAUST FAN NO.10		10,14
53	100	40	14,000	3	480	3	10	2	15	AIR COMPRESSOR NO.2		4,9,10
54	100	15	14,000	3	480	3	12	1	3/4	EXHAUST FAN NO.13		2,8,22
55	100	15	14,000	3	480	3	12	1	1-1/2	EXHAUST FAN NO.14		2,8
56	100	15	14,000	3	480	3	12	1	3/4	EXHAUST FAN NO.18		2,8
57	100	15	14,000	3	480	3	12	1	1/2	EXHAUST FAN NO.19		2,8

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
58	100	40	14,000	3	480	3	10	2	15	H & V-1		2,8
59	100	20	14,000	3	480	3	12	-	-	BOILER		-
60	100	20	14,000	3	480	3	12	1	3	THICKENER DRIVE		8
61	100	20	14,000	3	480	3	12	1	5	AIR BLOWER		8
62	100	15	14,000	3	480	3	12	-	-	SPARE		-
63	100	15	14,000	3	480	3	12	1	1/2	EXHAUST FAN #23		2,8
64	100	20	14,000	3	480	3	12	-	-	HOT WATER HEATER		-
65	100	60	14,000	3	480	3	6	-	-	ELEVATOR		-
66										LOAD SHEDDING RELAYS		-
67	100	20	14,000	3	480	3	10	-	-	HEAT TREATMENT BOILER		-
68	100	20	14,000	3	480	3	12	-	-	SCUM HEATER		4 KW
69	100	20	14,000	3	480	3	12	1	1/2	SCRUBBER FAN		2,8
70	100	20	14,000	3	480	3	12	1	1/2	AIR COMPRESSOR		2,8
71	100	20	14,000	3	480	3	12	1	-	SPARE		2,8
72	100	20	14,000	3	480	3	12	1	-	SPARE		2,8
73	100	20	14,000	3	480	3	12	1	-	SPARE		2,8
74	100	20	14,000	3	480	3	12	1	-	SPARE		2,8

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

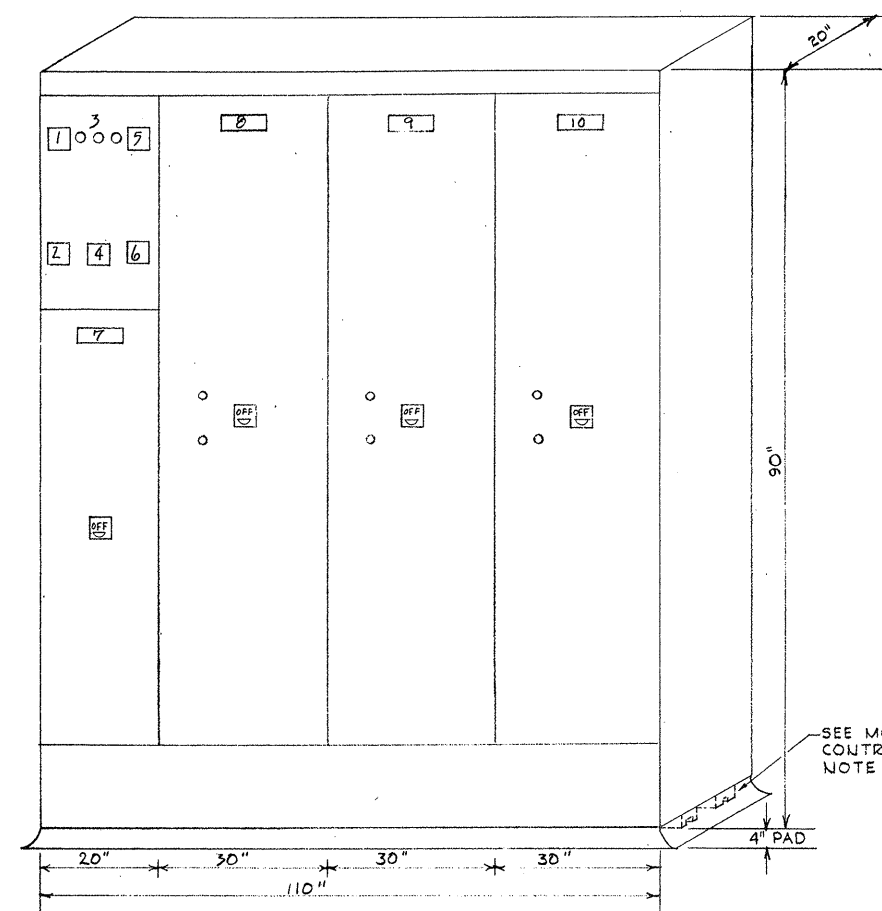
DRAWN: J. CALIGURI DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

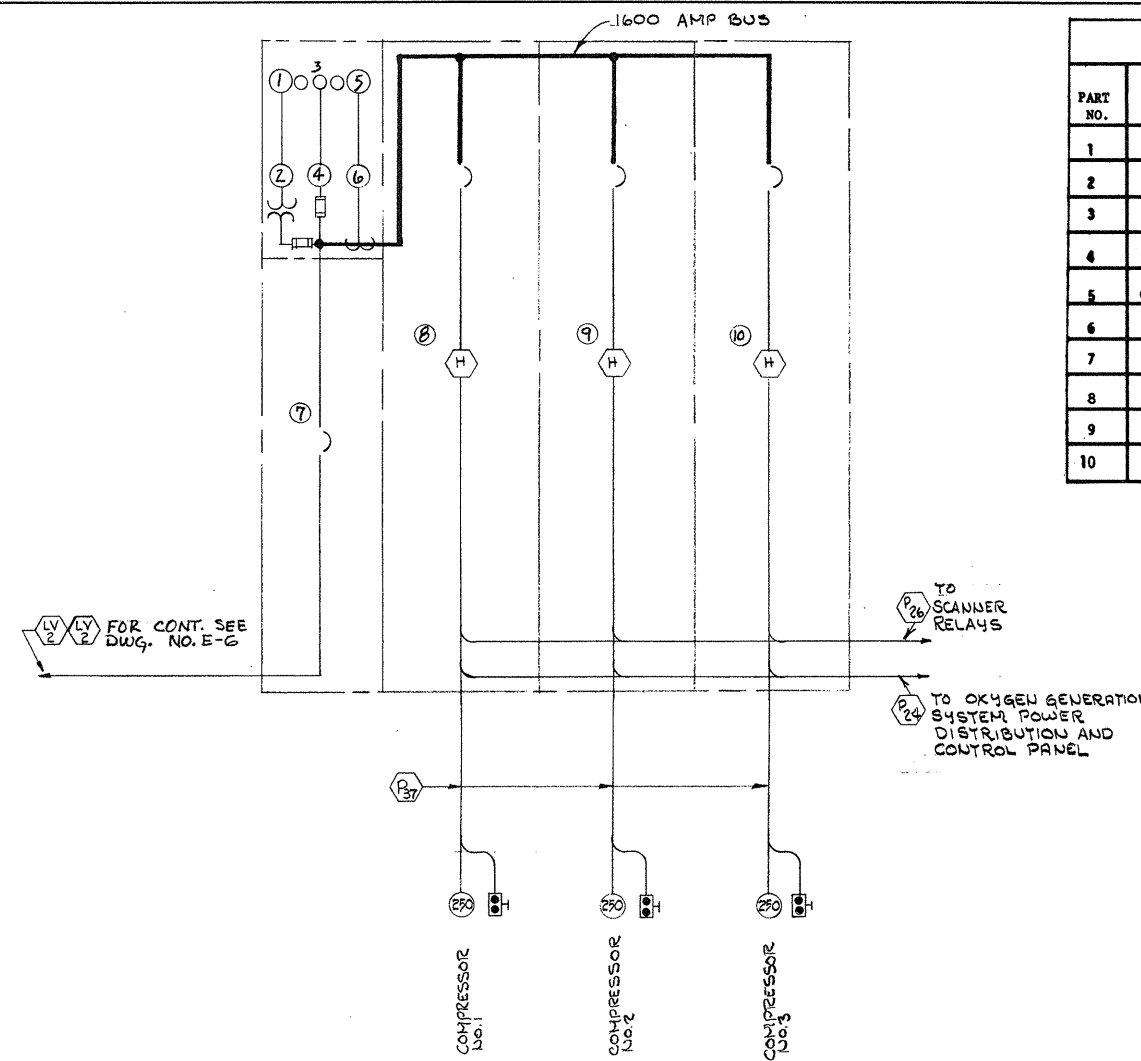
APPROVED

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 SLUDGE HANDLING BUILDING
 ELECTRICAL
 MOTOR CONTROL CENTER NO. 4
 ELEVATION

SCALE
 NOT TO SCALE
 CEM NO. 1981
 DRAWING NO.
E-24



MOTOR CONTROL CENTER NO.5-ELEV.



**MOTOR CONTROL CENTER NO.5
SINGLE LINE DIAGRAM**

MOTOR CONTROL CENTER SCHEDULE												
PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
1	-	-	-	-	0/600	-	-	-	-	VOLTMETER		
2	-	-	-	-	120	-	-	-	-	VOLTMETER SWITCH		
3	-	-	-	-	120	-	-	-	-	GROUND DETECTOR LAMPS		
4	-	-	-	-	120	-	-	-	-	GROUND DETECTOR SWITCH		
5	0/1600	-	-	-	-	-	-	-	-	AMMETER		
6	-	-	-	-	-	-	-	-	-	AMMETER SWITCH		
7	1600	1200	200,000	3	480	6	750 MCM	-	-	MAIN SECONDARY BREAKER		
8	800	600	30,000	3	480	3	500 MCM	6	250	COMPRESSOR NO.1		8,12,20,21,23,24
9	800	600	30,000	3	480	3	500 MCM	6	250	COMPRESSOR NO.2		8,12,20,21,23,24
10	800	600	30,000	3	480	3	500 MCM	6	250	COMPRESSOR NO.3		8,12,20,21,23,24

MOTOR CONTROL CENTER NOTES:

- FOR GENERAL NOTES AND LEGEND SEE DWG. E-6.
- PROVIDE HAND-OFF-AUTOMATIC SELECTOR SWITCH.
- PROVIDE STOP-START-PUSH BUTTON STATION.
- PROVIDE ELAPSE TIME METER.
- PROVIDE VOLTMETER.
- PROVIDE AMMETER, CURRENT TRANSFORMERS AND FOUR POSITION SELECTOR SWITCH.
- SHIPPING CHANNELS SHALL BE GROUTED INTO CONCRETE PAD.
- PROVIDE "ON" GREEN, "RED" OFF PILOT LIGHTS.
- PROVIDE SLOW-FAST-STOP PUSH BUTTON STATION WITH "RED" OFF-"GREEN" -FAST, AMBER SLOW PILOT LIGHTS.
- PROVIDE STARTER FOR TWO SPEED SINGLE WINDING MOTOR.
- PROVIDE FUSE BLOCKS FOR WIRING TO AN ADDITIONAL EXTERNAL CONTROL TRANSFORMER.
- PROVIDE CONTACTS AND TERMINALS FOR REMOTE PUSHBUTTON, AND INDICATING LIGHTS.
- SEE WATER SEAL WIRING DIAGRAM, DWG. E-8.
- PROVIDE SLOW-FAST-STOP AUTOMATIC SELECTOR SWITCH WITH "FAST" GREEN, "SLOW" AMBER, "RED" OFF PILOT LIGHTS.
- PROVIDE CONTACTS FOR INTERLOCKING WITH MOTORIZED DAMPERS.
- TIMERS FOR PRIMARY SLUDGE PUMPS.
- PROVIDE AN 800 AMP. AUTOMATIC TRANSFER SWITCH.
- PROVIDE 4 POSITION SELECTOR SWITCH.
- INTERLOCK WITH INTAKE FAN.
- PROVIDE AUXILIARY RELAY. CONNECT TO OVERLOAD CONTACT TO STOP MOTOR AND SOUND AN ALARM.
- PROVIDE REDUCED VOLTAGE AUTO TRANSFORMER CLOSED TRANSITION STARTER.
- INTERLOCK EXHAUST FAN WITH FILTER CONTROL PANEL.
- PROVIDE CTS FOR REMOTE AMMETER.
- PROVIDE PROVISIONS FOR REMOTE ELAPSED TIME METER.
- PROVIDE AUXILIARY RELAYS WITH 3 N.O. AND 3 N.C. CONTACTS.
- PROVIDE ELECTRIC ALTERNATOR AND TIME DELAY RELAYS AS REQUIRED FOR EACH PUMP TIED INTO WATER SEAL SYSTEM.

NOTES:

- FOR GENERAL NOTES AND LEGEND SEE DWG. NO. E-2.
- FOR STARTER SYMBOLS SEE DWG. NO. E-21.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: B. BURMAN DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

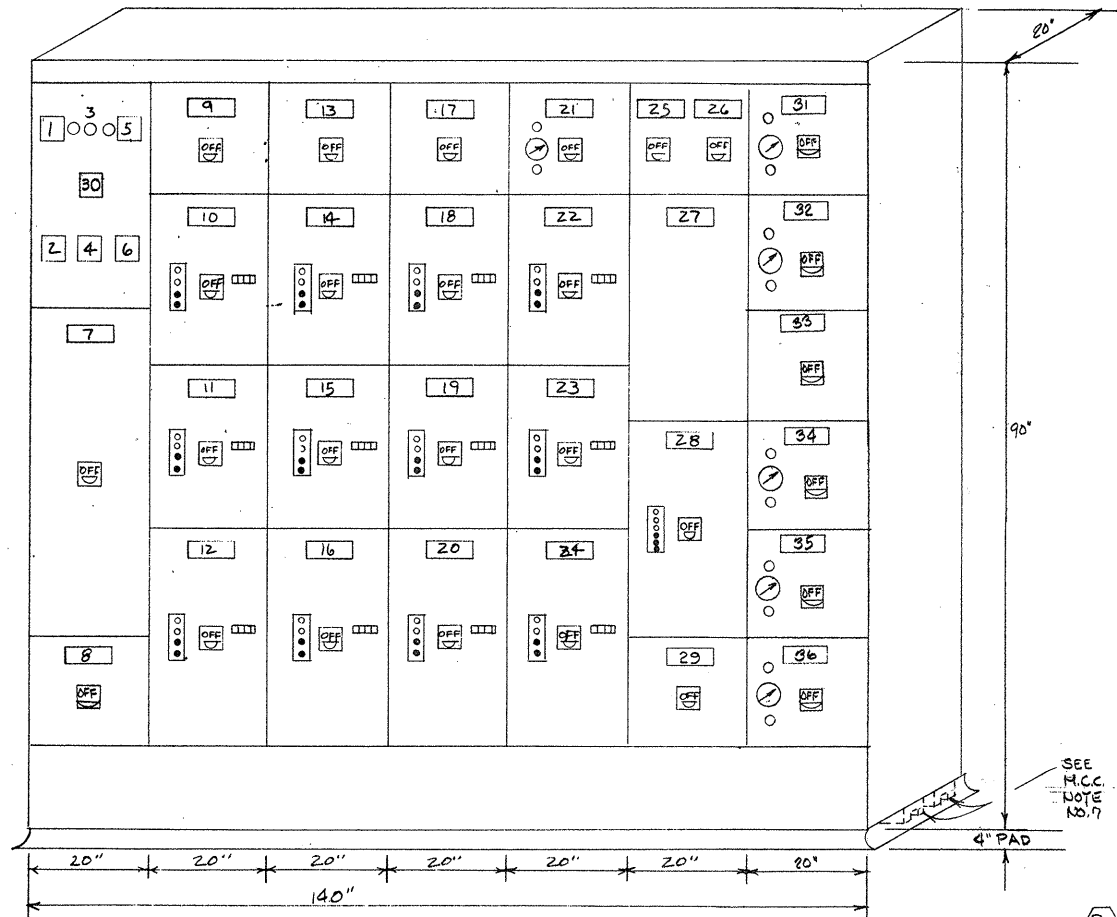
APPROVED
Charles A. Maguire
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
 WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OXYGEN GENERATION BUILDING
ELECTRICAL
MOTOR CONTROL CENTER NO. 5

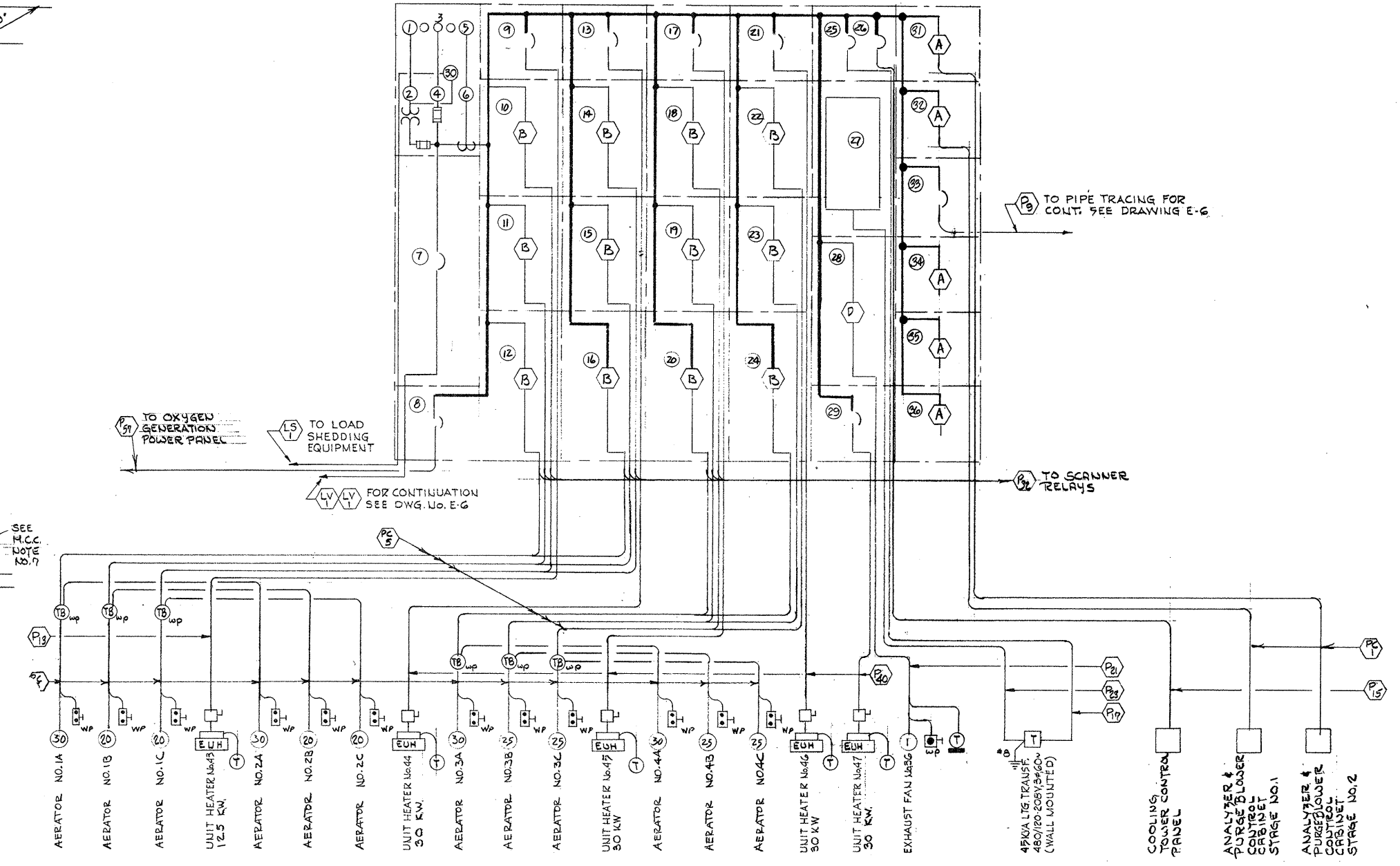
SCALE
 NOT TO SCALE

CEM NO. 1981

DRAWING NO.
E-25



MOTOR CONTROL CENTER NO. 5A- ELEV.



MOTOR CONTROL CENTER SCHEDULE NO. 5A

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
1					0/000					VOLTMETER		
2					120					VOLTMETER SWITCH		
3					120					GROUND DETECTOR LAMP		
4					120					GROUND DETECTOR SWITCH		
5	0/800									AMMETER		
6										AMMETER SWITCH		
7	1200	800	30,000	3	480	6	500 MCM			MAIN SECONDARY BREAKER		
8	22.5	22.5	35,000	3	480	3	250 MCM			OWNERS GENERATING POWER PANEL		
9	100	20	14,000	3	480	3	12			UNIT HEATER NO. 4B 12.5 KW		
10	100	50	14,000	3	480	3	6	2	20	AERATOR NO. 1C		3, 4, 8
11	100	50	14,000	3	480	3	6	2	20	AERATOR NO. 1B		3, 4, 8
12	100	70	14,000	3	480	3	6	3	30	AERATOR NO. 1A		3, 4, 8
13	100	60	14,000	3	480	3	6			UNIT HEATER NO. 4A 30 KW		
14	100	50	14,000	3	480	3	6	2	20	AERATOR NO. 2C		3, 4, 8
15	100	50	14,000	3	480	3	6	2	20	AERATOR NO. 2B		3, 4, 8
16	100	70	14,000	3	480	3	6	3	30	AERATOR NO. 2A		3, 4, 8
17	100	60	14,000	3	480	3	6			UNIT HEATER NO. 4E 30 KW		
18	100	50	14,000	3	480	3	6	2	25	AERATOR NO. 3C		3, 4, 8
19	100	50	14,000	3	480	3	6	2	25	AERATOR NO. 3B		3, 4, 8

MOTOR CONTROL CENTER SCHEDULE NO. 5A (CONT.)

PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
20	100	70	14,000	3	480	3	6	3	30	AERATOR NO. 3A		3, 4, 8
21	100	60	14,000	3	480	3	6			UNIT HEATER NO. 4F 30 KW		
22	100	50	14,000	3	480	3	6	2	25	AERATOR NO. 4C		3, 4, 8
23	100	50	14,000	3	480	3	6	2	25	AERATOR NO. 4B		3, 4, 8
24	100	70	14,000	3	480	3	6	3	30	AERATOR NO. 4A		3, 4, 8
25	100	70	14,000	3	480	3	6			LIGHTING TRANSFORMER "C"		
26	100	100	14,000	3	480	3	3			COOLING TOWER CONTROL PANEL		
27										LIGHTING PANEL "C"		
28	100	15	14,000	3	480	3	12	1	1	EXHAUST FAN NO. 36 2 SPEED		10, 14
29	100	60	14,000	3	480	3	6			UNIT HEATER NO. 4D 30 KW		
30										LOAD SHEDDING RELAYS		
31	100	20	14,000	3	480	3	12	1	5	PURGE BLOWER #1		2, 8
32	100	20	14,000	3	480	3	12	1	5	PURGE BLOWER #2		2, 8
33	100	50	14,000	3	480	3	10			PIPE HEAT TRACING		
34-36	100	20	14,000	3	480	3	12	1		BLANK (3 SPARE)		2, 8

- NOTES:
- FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
 - FOR MOTOR CONTROL CENTER NOTES SEE DWG. NO. E-25.
 - FOR STARTER SYMBOLS SEE DWG. NO. E-21.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: B. BURMAN DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

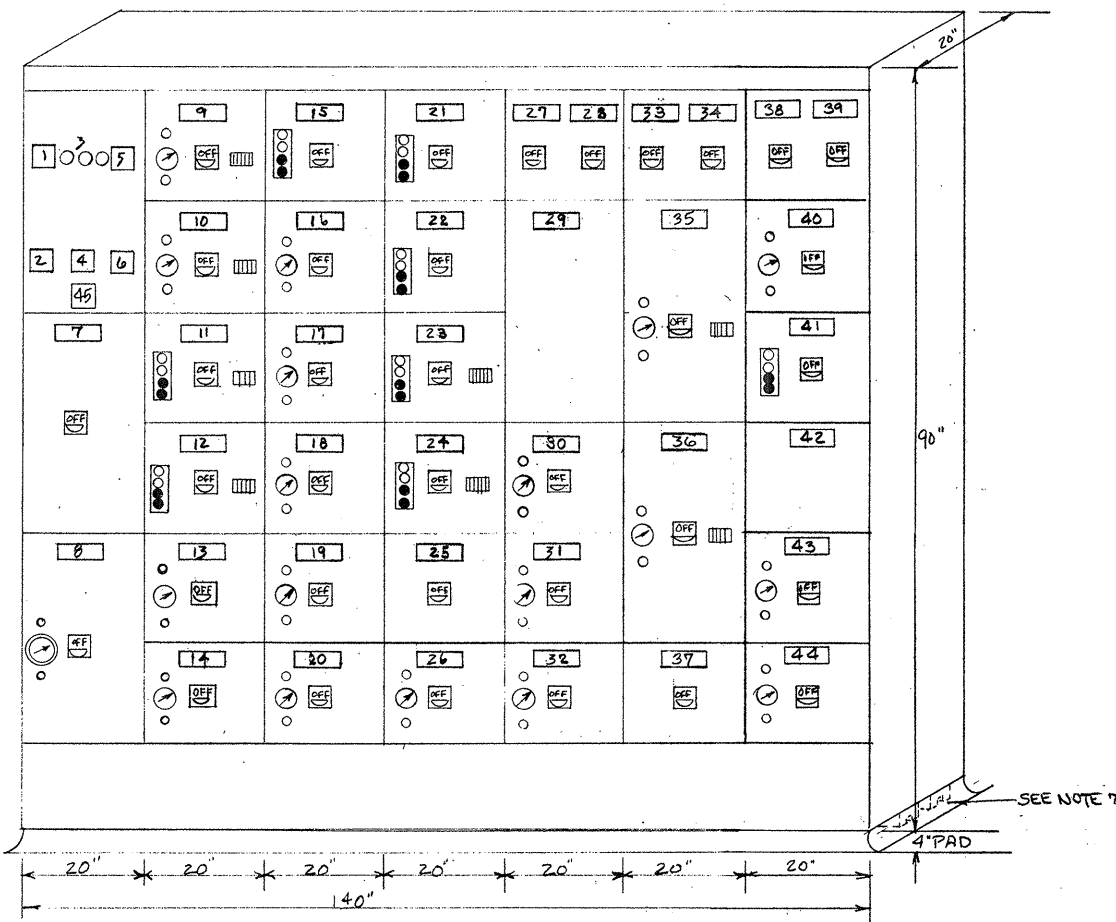
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Maguire
 CITY OF TAUNTON

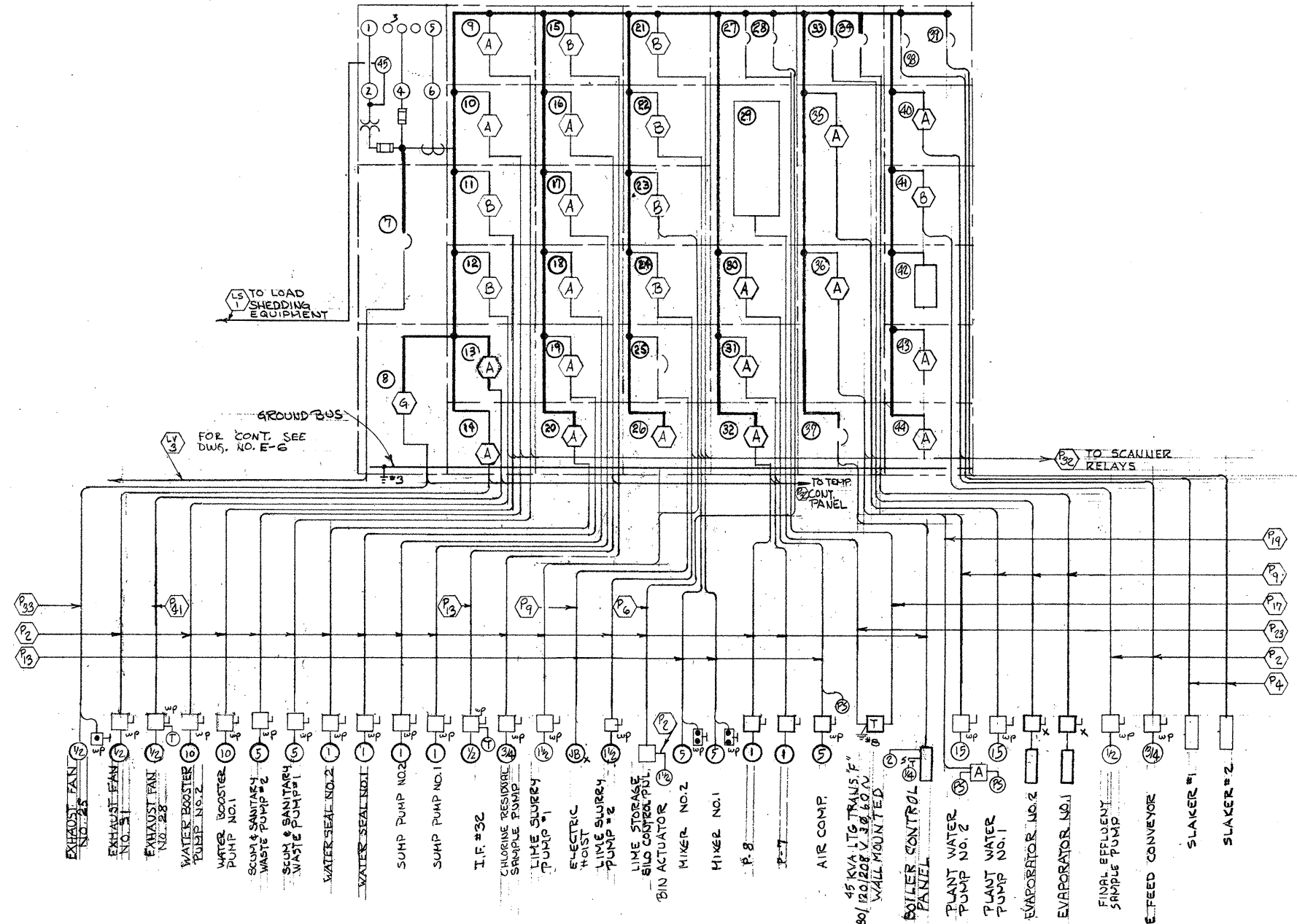
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

OXYGEN GENERATION BUILDING
ELECTRICAL
MOTOR CONTROL CENTER NO. 5A

SCALE NOT TO SCALE
 CEM NO. 1981
 DRAWING NO. **E-26**



MOTOR CONTROL CENTER NO. 6 - ELEVATION



MOTOR CONTROL CENTER NO. 6 - SINGLE LINE DIAGRAM

MOTOR CONTROL CENTER SCHEDULE 6												
PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
1					0/600					VOLTMETER		
2					120					VOLTMETER SWITCH		
3					120					GROUND DETECTOR LAMPS		
4					120					GROUND DETECTOR SWITCH		
5	0/350									AMMETER		
6										AMMETER SWITCH		
7	600	300	30,000	3	480	3	500 MCM			MAIN SECONDARY BREAKER		
8	100	15	14,000	3	480	3	12	1	1/2	EXHAUST FAN NO. 25	10, 14	
9	100	20	14,000	3	480	3	12	1	5	SCUM & SANITARY WASTE PUMP #1	2, 8, 13, 4	
10	100	20	14,000	3	480	3	12	1	5	SCUM & SANITARY WASTE PUMP #2	2, 8, 13, 4	
11	100	30	14,000	3	480	3	12	1	10	WATER BOOSTER PUMP NO. 1	3, 4, 8	
12	100	30	14,000	3	480	3	12	1	10	WATER BOOSTER PUMP NO. 2	3, 4, 8	
13	100	15	14,000	3	480	3	12	1	1/2	EXHAUST FAN NO. 28	2, 8, 15	
14	100	15	14,000	3	480	3	12	1	1/2	EXHAUST FAN NO. 31	2, 8, 15	
15	100	15	14,000	3	480	3	12	1	3/4	CHLORINE RESIDUAL SAMPLE PUMP	3, 8	
16	100	15	14,000	3	480	3	12	1	1/2	IF 32	2, 8, 15	
17	100	15	14,000	3	480	3	12	1	1	DUPLEX SUMP PUMP NO. 1	2, 8	
18	100	15	14,000	3	480	3	12	1	1	DUPLEX SUMP PUMP NO. 2	2, 8	
19	100	15	14,000	3	480	3	12	1	1	WATER SEAL NO. 1	2, 8, 13	
20	100	15	14,000	3	480	3	12	1	1	WATER SEAL NO. 2	2, 8, 13	
21	100	20	14,000	3	480	3	12	1	5	MIXER NO. 1	3, 8	
22	100	20	14,000	3	480	3	12	1	5	MIXER NO. 2	3, 8	
23	100	15	14,000	3	480	3	12	1	1/2	LIME SLURRY PUMP #1	3, 8, 9, 25	

MOTOR CONTROL CENTER SCHEDULE												
PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
24	100	15	14,000	3	480	3	12	1	1/2	LIME SLURRY PUMP #2	3, 8, 9, 25	
25	100	15	14,000	3	480	3	10			ELECTRIC HOIST		
26	100	15	14,000	3	480	3	12	1		SPARE	2, 8	
27	100	70	14,000	3	480	3	6			LIGHTING TRANSF.		
28	100	20	14,000	3	480	3	12			LIME SILO CONTROL PNL		
29										LIGHTING PANEL		
30	100	20	14,000	3	480	3	12	1	5	AIR COMP.	2, 8	
31	100	15	14,000	3	480	3	12	1	1	P-7	2, 8	
32	100	15	14,000	3	480	3	12	1	1	P-8	2, 8	
33	100	30	14,000	3	480	3	10			EVAPORATOR NO. 1		
34	100	30	14,000	3	480	3	10			EVAPORATOR NO. 2		
35	100	40	14,000	3	480	3	10	2	15	PLANT WATER PUMP NO. 1	2, 4, 8	
36	100	40	14,000	3	480	3	10	2	15	PLANT WATER PUMP NO. 2	2, 4, 8	
37	100	15	14,000	3	480	3	12			BOILER CONTROL PANEL		
38	100	20	14,000	3	480	3	12			SLAKER NO. 1		

MOTOR CONTROL CENTER SCHEDULE												
PART NO.	FRAME SIZE AMPS	TRIP SETTING AMPS	I.C. AT RATED VOLTAGE	NO. OF POLES	OPER. VOLTAGE	LUGS		START NEMA SIZE	H.P.	NAMEPLATE	REMARKS	SEE NOTE
						NO.	SIZE					
39	100	20	14,000	3	480	3	12			SLAKER NO. 2		
40	100	15	14,000	3	480	3	12	1	3/4	FEED CONVEYOR		
41	100	15	14,000	3	480	3	12	1	1/2	FINAL EFFLUENT SAMPLE PUMP	2, 8	
42										WATER SEAL CONTROL SYSTEM	13, 2, 6	
43	100	20	14,000	3	480	3	12	1		SPARE	2, 8	
44	100	20	14,000	3	480	3	12	1		SPARE	2, 8	
45										LOAD SHEDDING RELAYS		

- NOTES:
- FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
 - FOR MOTOR CONTROL CENTER NOTES SEE DWG. NO. E-25.
 - FOR STARTER SYMBOLS SEE DWG. NO. E-21.

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: T. KARAS DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

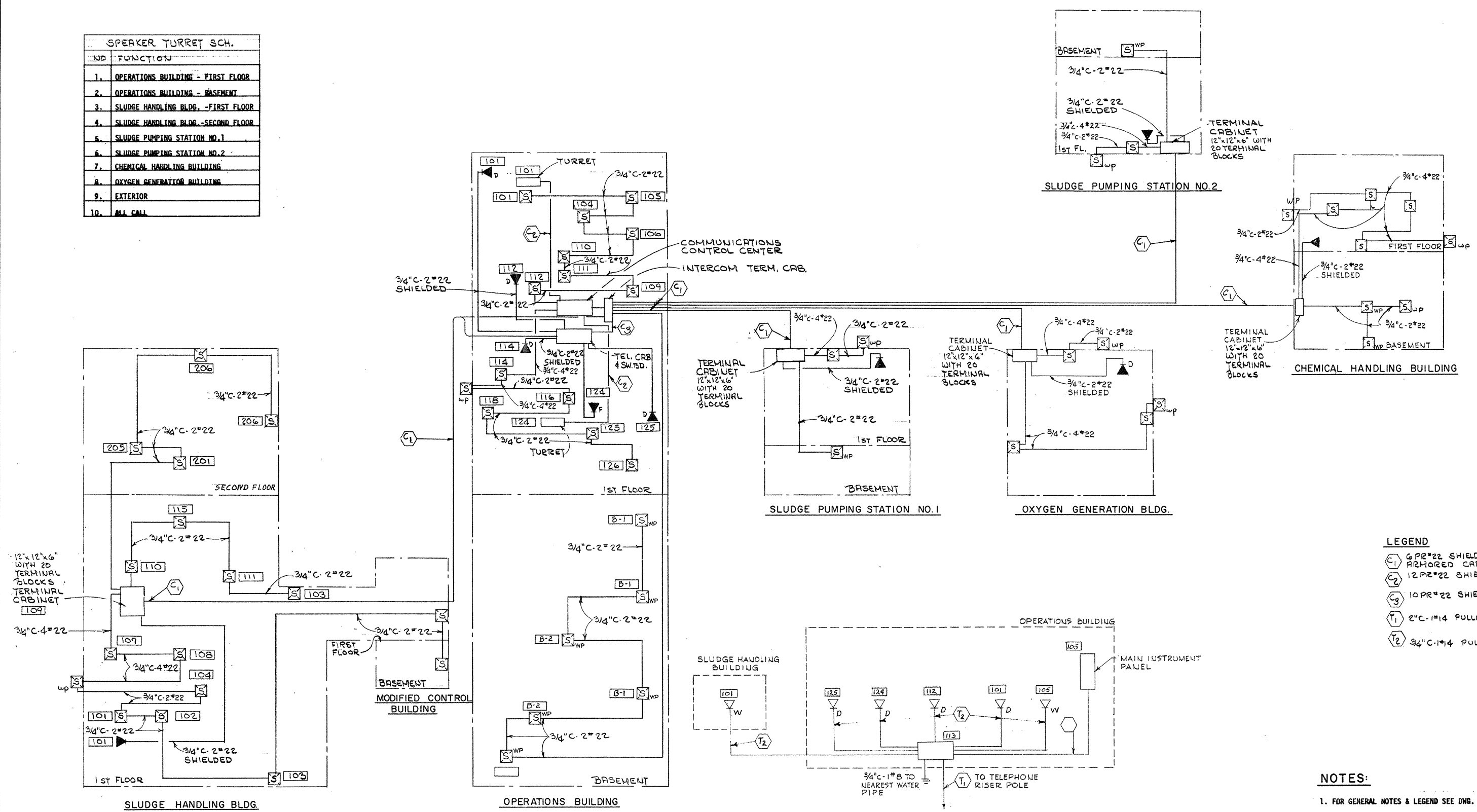
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Clouspy
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 CHEMICAL HANDLING BLDG.
ELECTRICAL
MOTOR CONTROL CENTER NO. 6

SCALE
 NOT TO SCALE
 CEM NO. 1981
 DRAWING NO.
E-27

SPEAKER TURRET SCH.	
NO.	FUNCTION
1.	OPERATIONS BUILDING - FIRST FLOOR
2.	OPERATIONS BUILDING - BASEMENT
3.	SLUDGE HANDLING BLDG. - FIRST FLOOR
4.	SLUDGE HANDLING BLDG. - SECOND FLOOR
5.	SLUDGE PUMPING STATION NO. 1
6.	SLUDGE PUMPING STATION NO. 2
7.	CHEMICAL HANDLING BUILDING
8.	OXYGEN GENERATOR BUILDING
9.	EXTERIOR
10.	M.I. CALL



- LEGEND**
- C1 6 PR#22 SHIELDED CONTINUALLY WELDED ARMORED CABLE
 - C2 12 PR#22 SHIELDED CABLE IN 1" CONDUIT
 - C3 10 PR#22 SHIELDED CABLE IN 1" CONDUIT
 - T1 2" C-1#14 PULLWIRE
 - T2 3/4" C-1#14 PULLWIRE

- NOTES:**
1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
 2. AN INTERCOM CABLE SHALL BE TWISTED PAIR.
 3. TELEPHONE SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW ENGLAND TELEPHONE COMPANY.

NEW ENGLAND TEL. & TEL. CO.
SINGLE LINE DIAGRAM
NOT TO SCALE

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: R. BURMAN DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

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APPROVED
Charles L. Poiry
 CITY OF TAUNTON

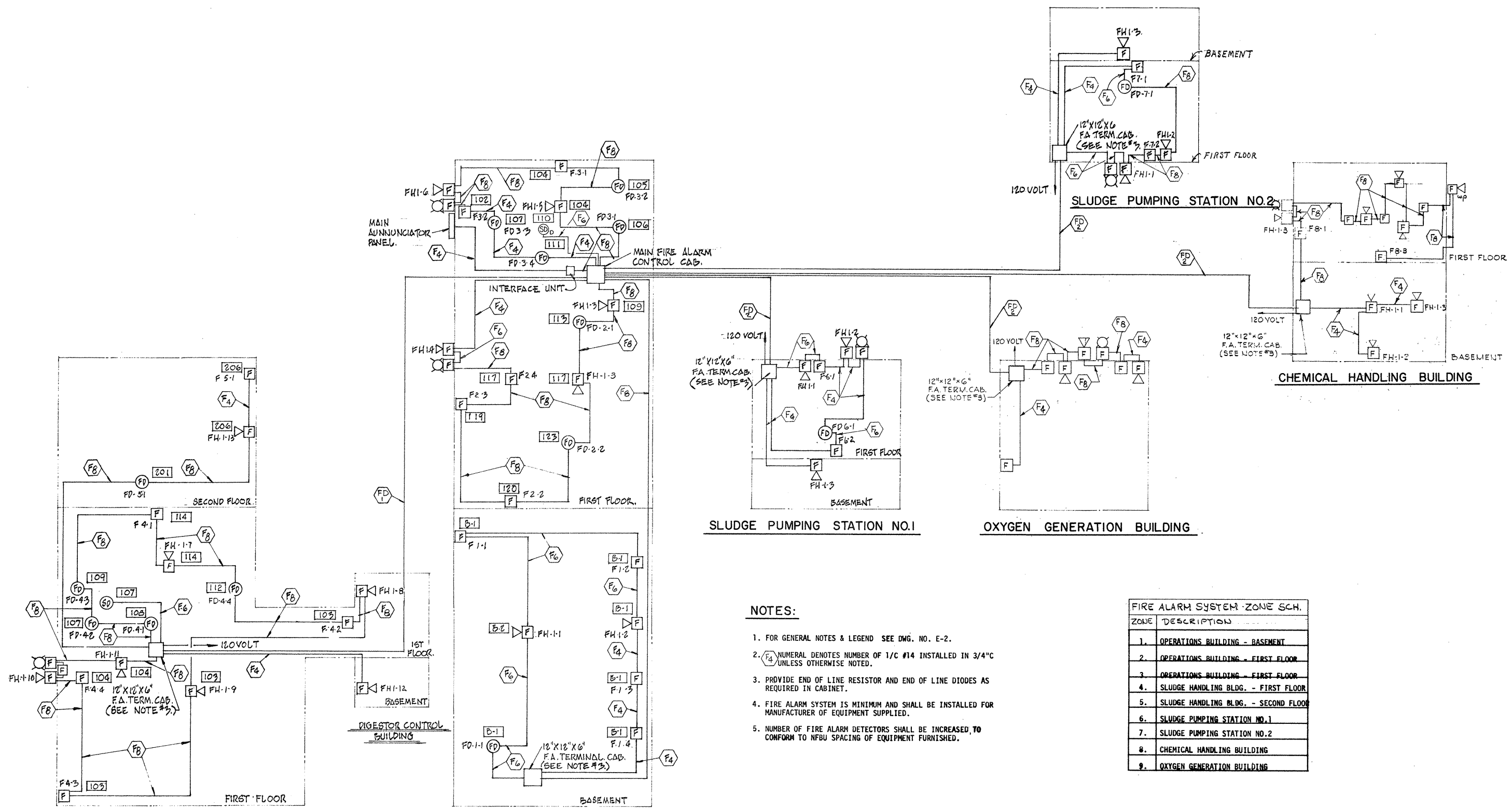
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

**ELECTRICAL
 TELEPHONE & INTERCOM
 SINGLE LINE DIAGRAM**

SCALE
 NOT TO SCALE

CEM NO. 1981

DRAWING NO.
E-28



NOTES:

1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
2. F_4 NUMERAL DENOTES NUMBER OF 1/2" #14 INSTALLED IN 3/4" C UNLESS OTHERWISE NOTED.
3. PROVIDE END OF LINE RESISTOR AND END OF LINE DIODES AS REQUIRED IN CABINET.
4. FIRE ALARM SYSTEM IS MINIMUM AND SHALL BE INSTALLED FOR MANUFACTURER OF EQUIPMENT SUPPLIED.
5. NUMBER OF FIRE ALARM DETECTORS SHALL BE INCREASED TO CONFORM TO NFPA SPACING OF EQUIPMENT FURNISHED.

FIRE ALARM SYSTEM - ZONE SCH.	
ZONE	DESCRIPTION
1.	OPERATIONS BUILDING - BASEMENT
2.	OPERATIONS BUILDING - FIRST FLOOR
3.	OPERATIONS BUILDING - SECOND FLOOR
4.	SLUDGE HANDLING BLDG. - FIRST FLOOR
5.	SLUDGE HANDLING BLDG. - SECOND FLOOR
6.	SLUDGE PUMPING STATION NO. 1
7.	SLUDGE PUMPING STATION NO. 2
8.	CHEMICAL HANDLING BUILDING
9.	OXYGEN GENERATION BUILDING

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: R. BURMAN DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Pinsky
 CITY OF TAUNTON

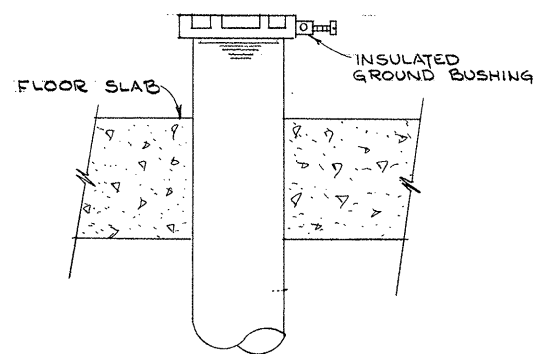
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

GENERAL
ELECTRICAL
FIRE ALARM SYSTEM - SINGLE LINE DIAGRAM

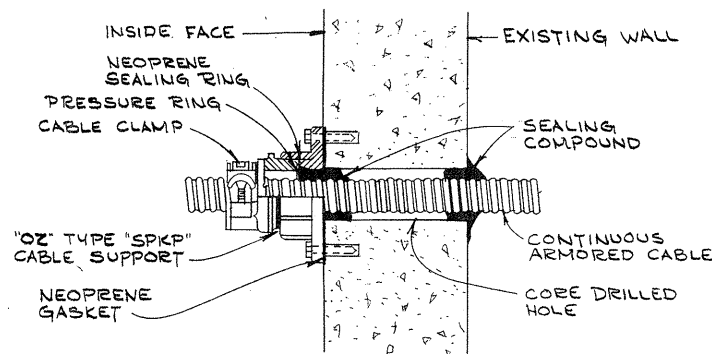
SCALE

CEM NO.

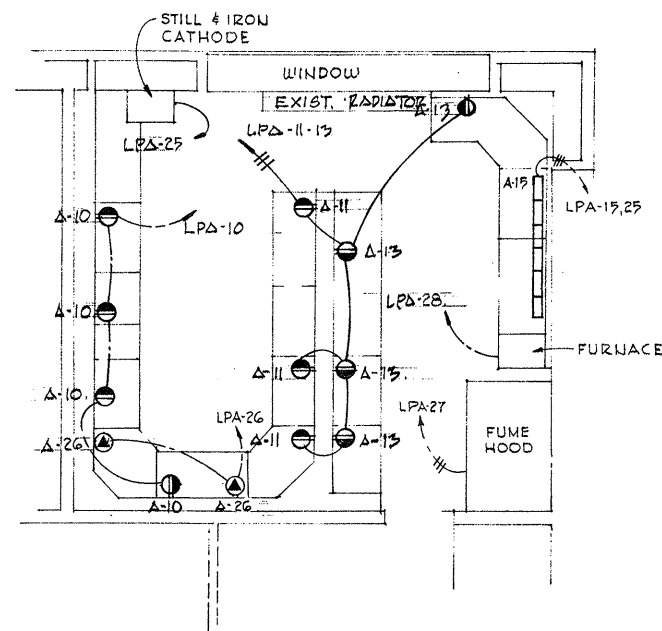
DRAWING NO.
E-29



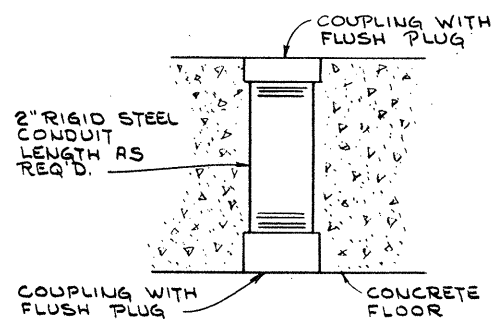
**TYPICAL DETAIL FOR TERMINATION
AT MOTOR CONTROL CENTERS
CONDUIT ENTERING FROM
INTERIOR OF BUILDING**
NOT TO SCALE



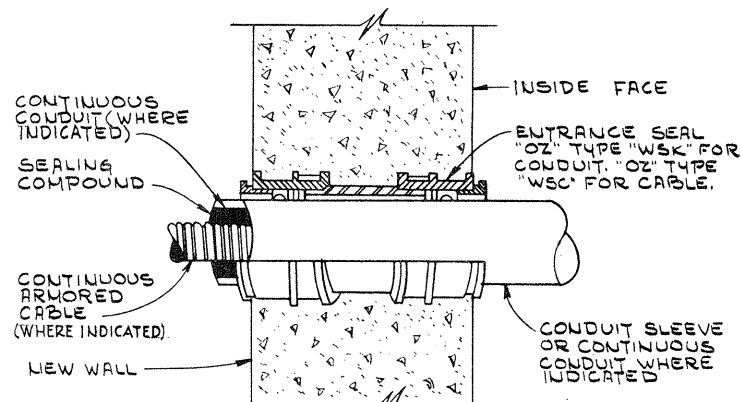
**TYPICAL SEALING DETAIL
THROUGH EXISTING WALL**
NOT TO SCALE



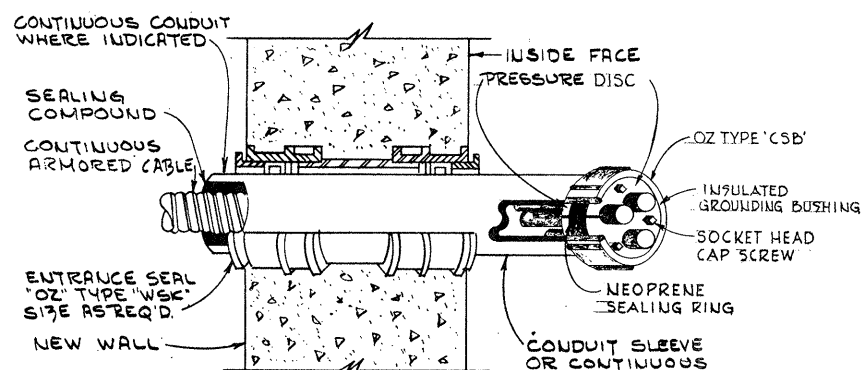
**PART PLAN "A"
OPERATIONS BUILDING
LAB LAYOUT ROOM I06**



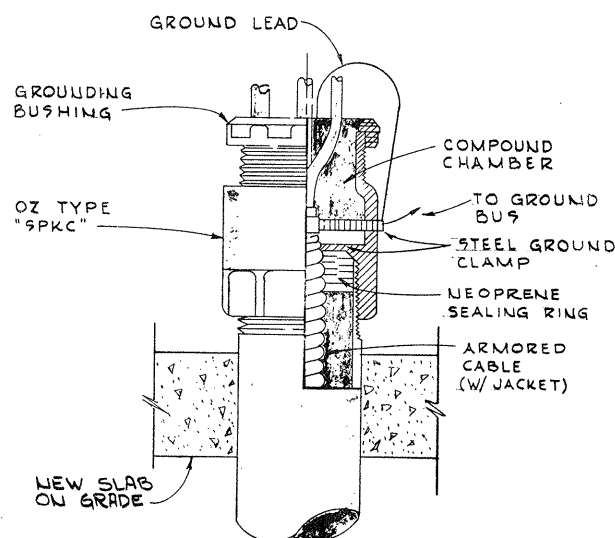
SPARE SLEEVE
NOT TO SCALE



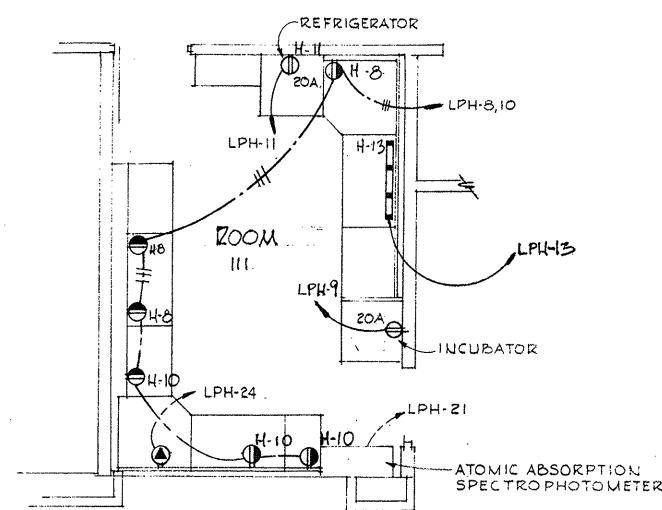
**TYPICAL SEALING DETAIL
THROUGH NEW WALL**
NOT TO SCALE



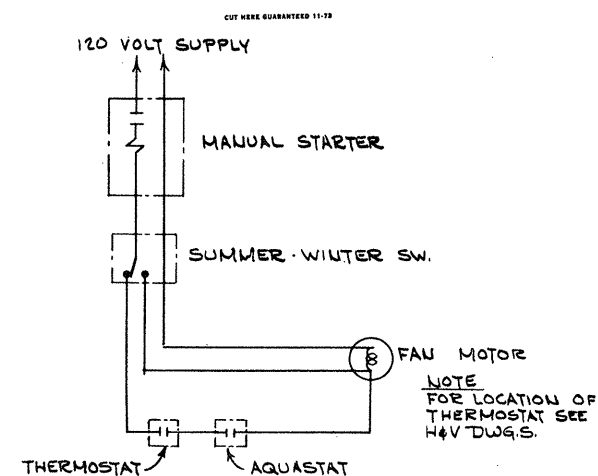
**TYPICAL SEALING DETAIL
THROUGH NEW WALL**
NOT TO SCALE



**TYPICAL SEALING DETAIL
THROUGH NEW FLOOR
FOR CONDUITS ENTERING
FROM EXTERIOR OF BUILDING**
NOT TO SCALE



**PART PLAN "B"
OPERATIONS BUILDING
LAB LAYOUT ROOM-III**
SCALE: 1/4" = 1'-0"



**TYPICAL WIRING DIAGRAM
OF UNIT HEATERS**
NOT TO SCALE

NOTES:

- FOR GENERAL NOTES & LEGEND SEE DRAWING NO. E-2.

ATTENTION
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BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: R. BURMAN DESIGNED: A. CLOUSPY
CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
DATE: JULY, 1974

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ARCHITECTS • ENGINEERS • PLANNERS
PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Maguire
CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
ADDITIONS & IMPROVEMENTS
GENERAL

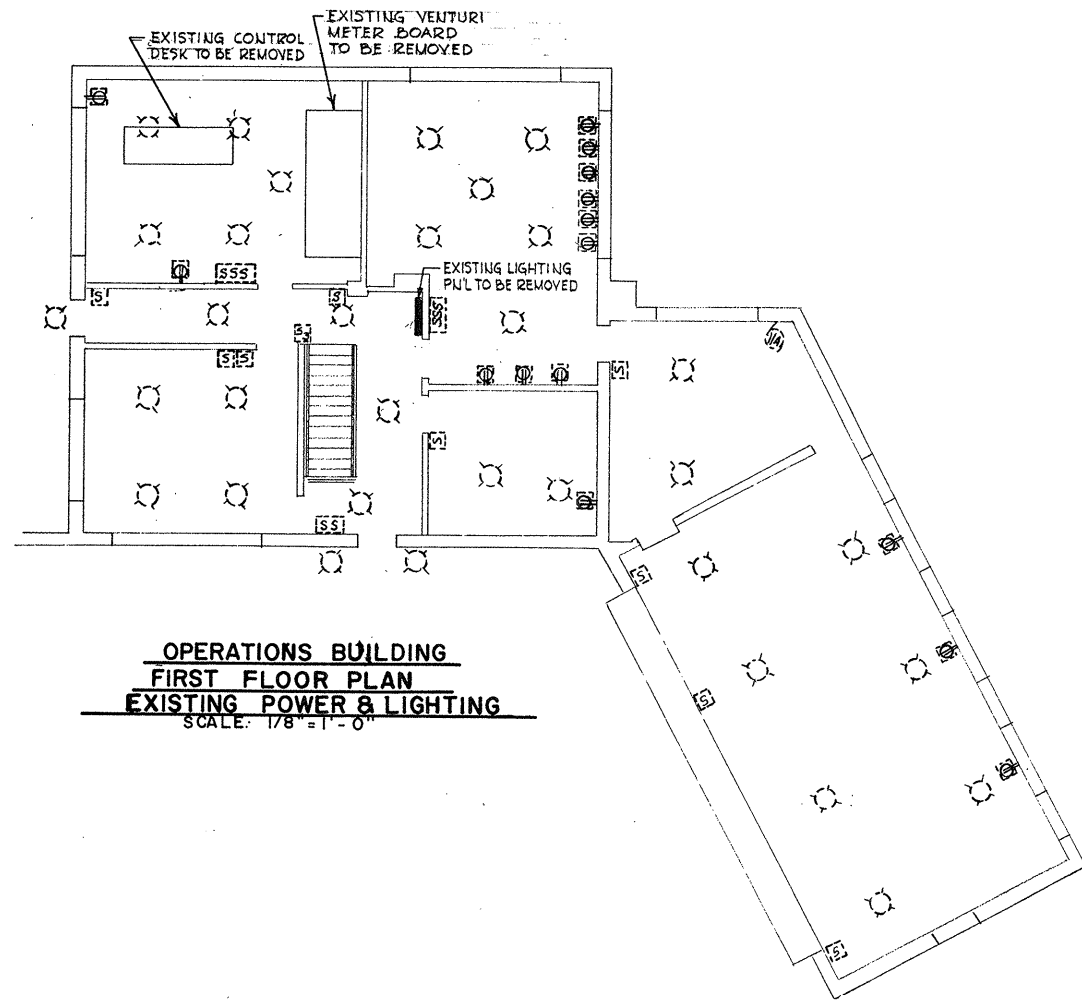
ELECTRICAL
MISCELLANEOUS DETAILS

SCALE
AS NOTED

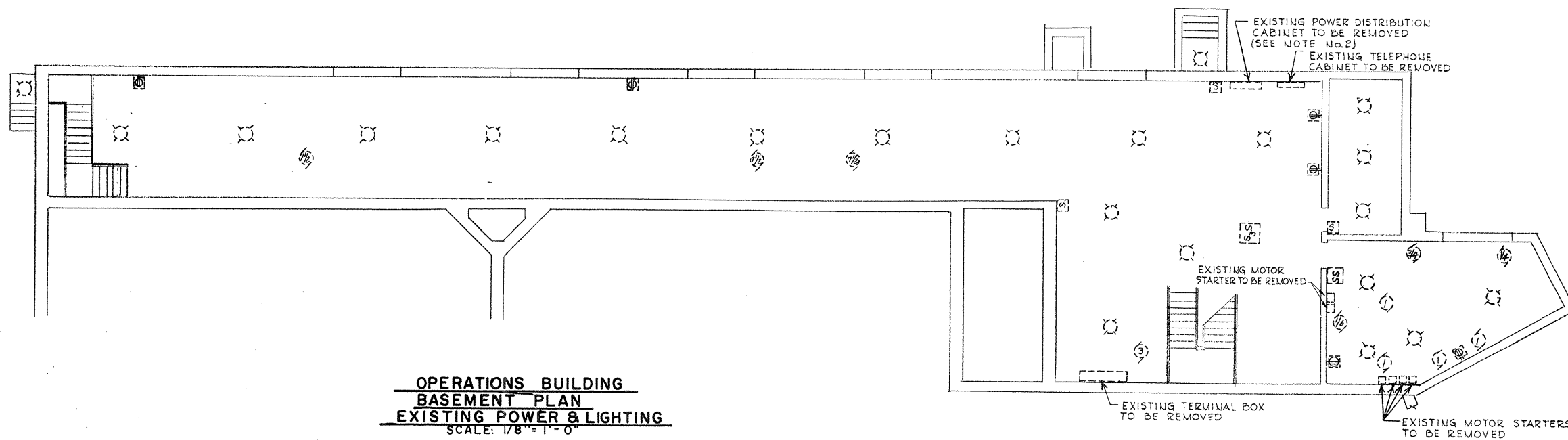
CEM NO. 1981

DRAWING NO.

E-30



**OPERATIONS BUILDING
FIRST FLOOR PLAN
EXISTING POWER & LIGHTING**
SCALE: 1/8" = 1'-0"



**OPERATIONS BUILDING
BASEMENT PLAN
EXISTING POWER & LIGHTING**
SCALE: 1/8" = 1'-0"

NOTES:

1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2.
2. EXISTING INCOMING SERVICE EQUIPMENT TO BE REMOVED AT THE COMPLETION OF THE JOB.

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: G. SNEAD DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

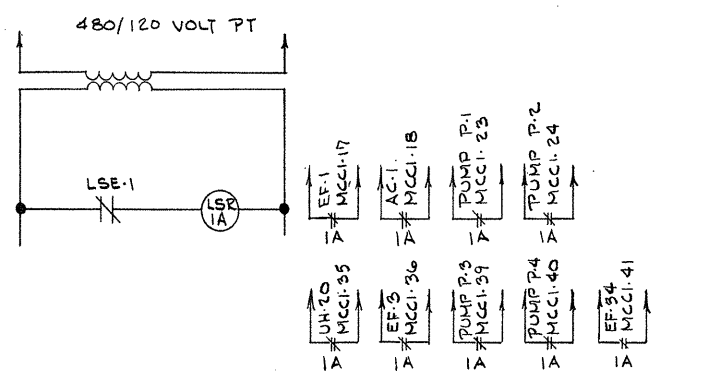
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.

APPROVED

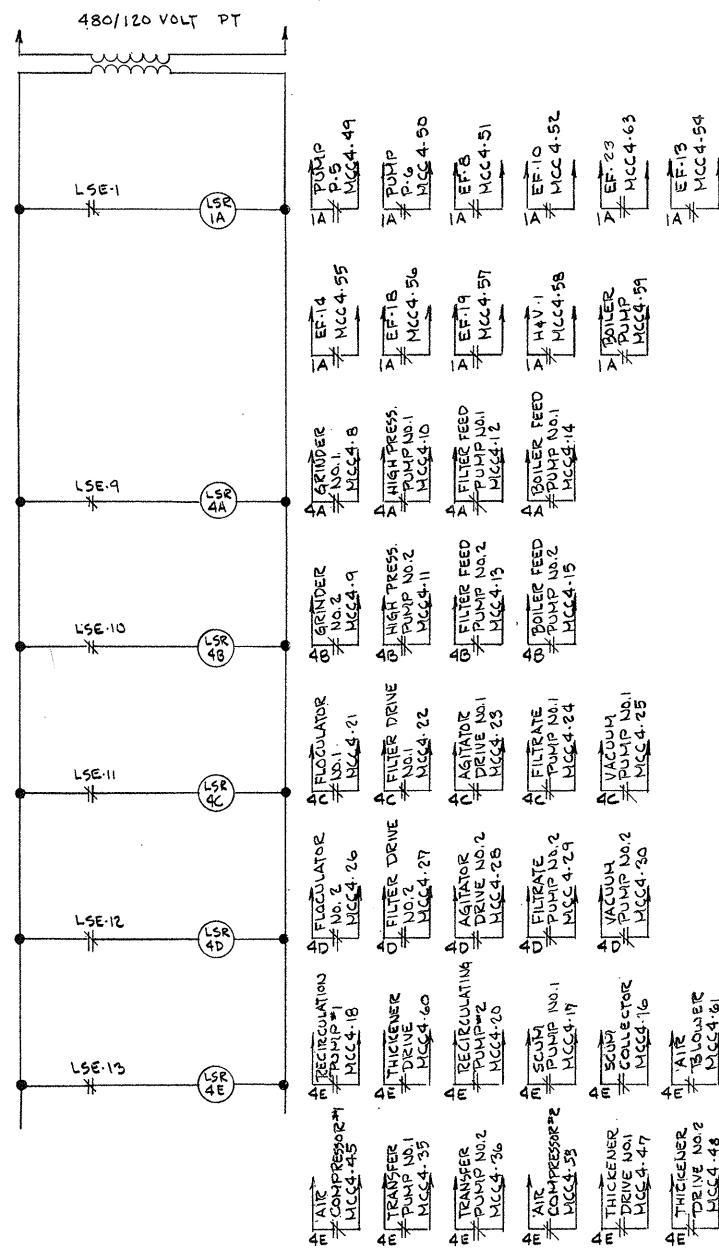
Charles G. Maguire
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
 OPERATIONS BUILDING
ELECTRICAL
 EXISTING - POWER & LIGHTING

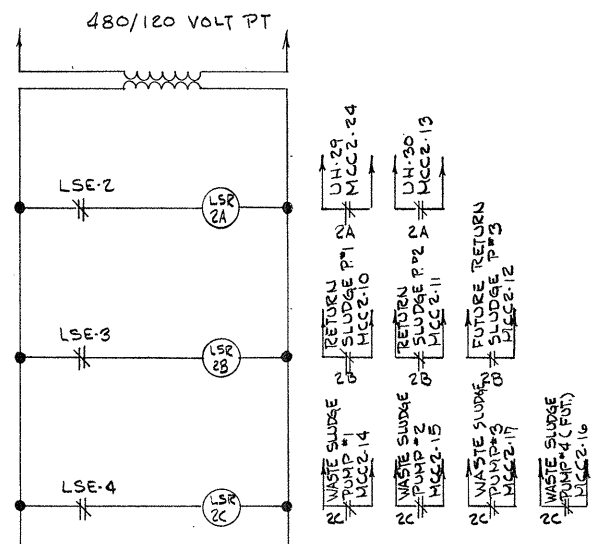
SCALE
 CEM NO.
 DRAWING NO.
E-31



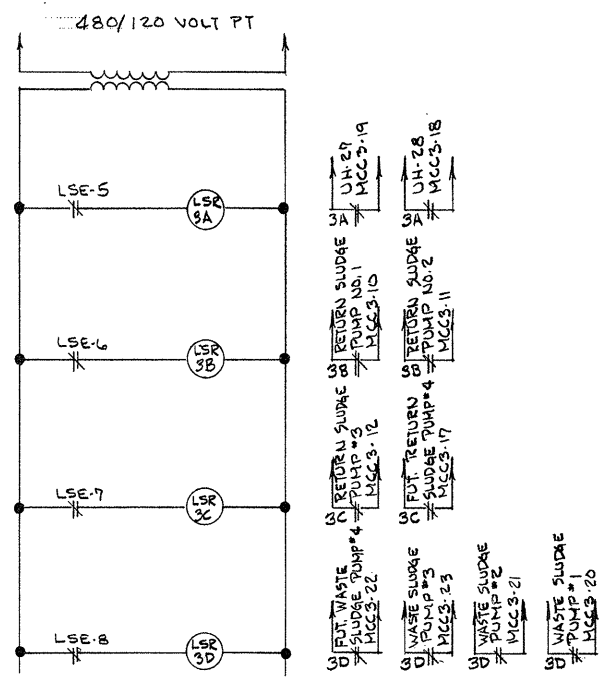
**MOTOR CONTROL CENTER NO. 1
SCHEMATIC DIAGRAM**



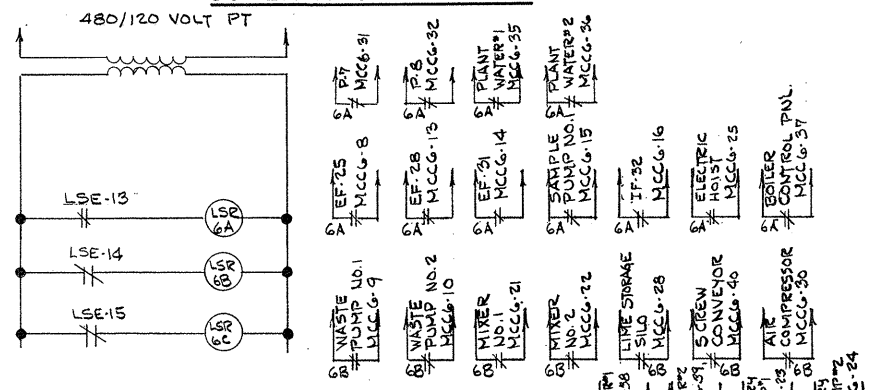
**MOTOR CONTROL CENTER NO. 4
SCHEMATIC DIAGRAM**



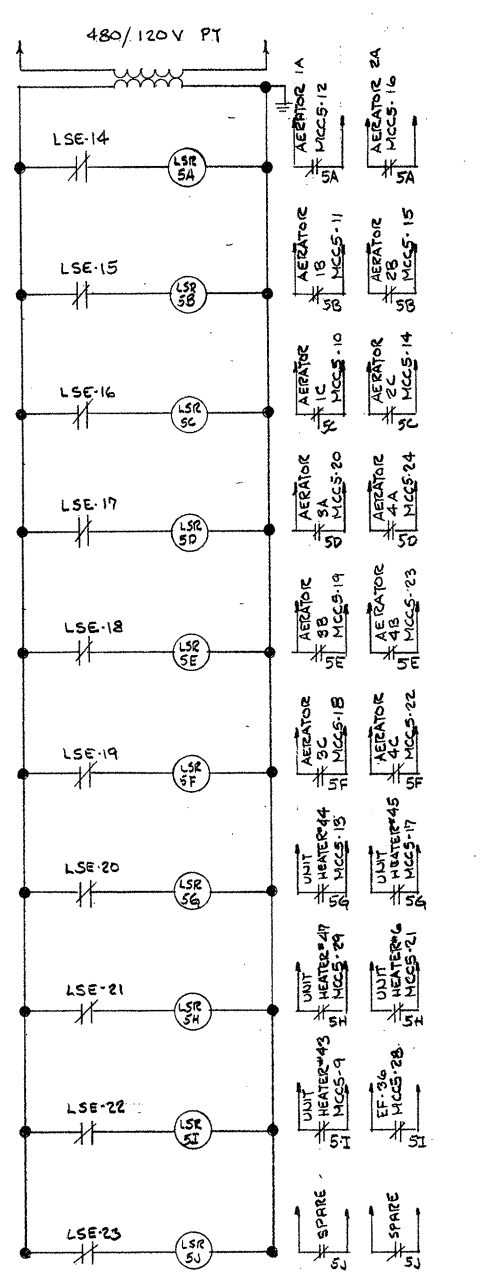
**MOTOR CONTROL CENTER NO. 2
SCHEMATIC DIAGRAM**



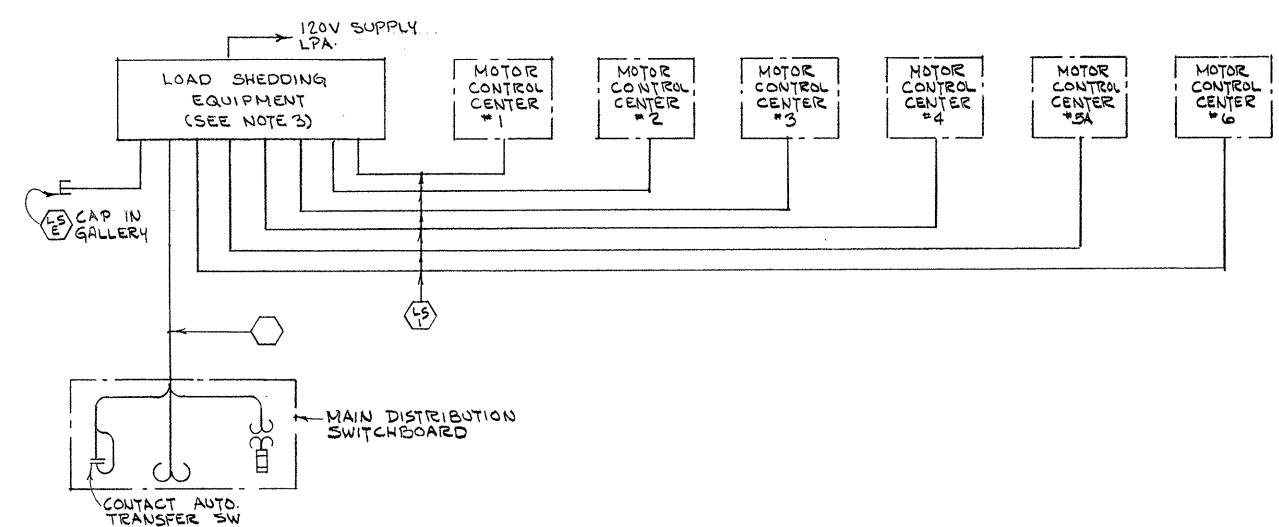
**MOTOR CONTROL CENTER NO. 3
SCHEMATIC DIAGRAM**



**MOTOR CONTROL CENTER NO. 6
SCHEMATIC DIAGRAM**



**MOTOR CONTROL CENTER NO. 5A
SCHEMATIC DIAGRAM**



LOAD SHEDDING EQUIPMENT - SINGLE LINE DIAGRAM

ATTENTION
THESE DRAWINGS HAVE BEEN REDUCED

- NOTES:**
- FOR GENERAL NOTES & LEGEND. SEE DMG. NO. E-2.
 - WARNING DO NOT START COMPRESSORS WITH LOAD.
 - PROVIDE LOAD SHEDDING POINTS.

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: R. BURMAN DESIGNED: A. CLOUSPY
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles A. Perry
 CITY OF TAUNTON

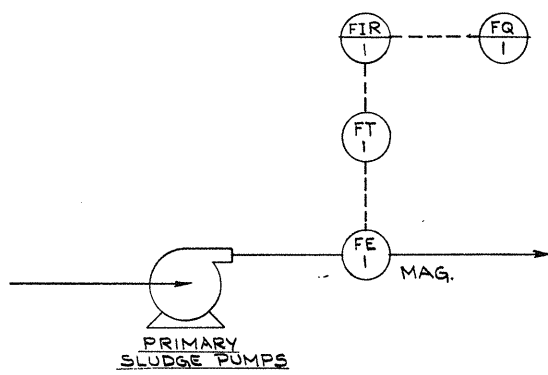
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

**ELECTRICAL
 LOAD SHEDDING
 SCHEMATIC DIAGRAMS**

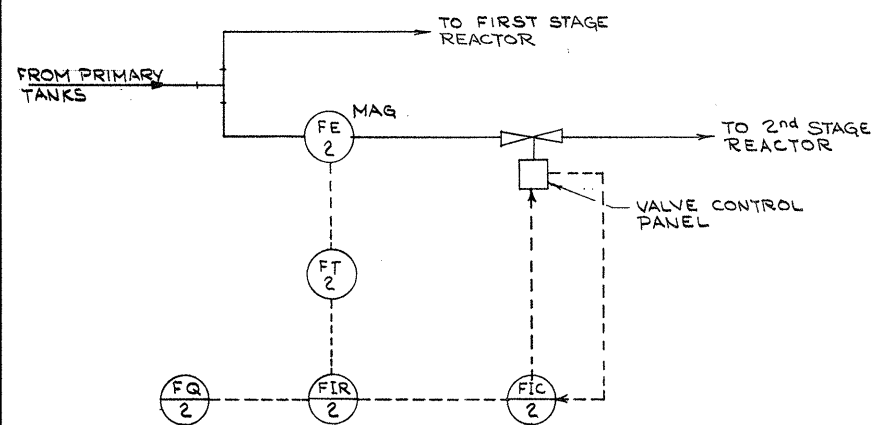
SCALE
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CEM NO. 1981

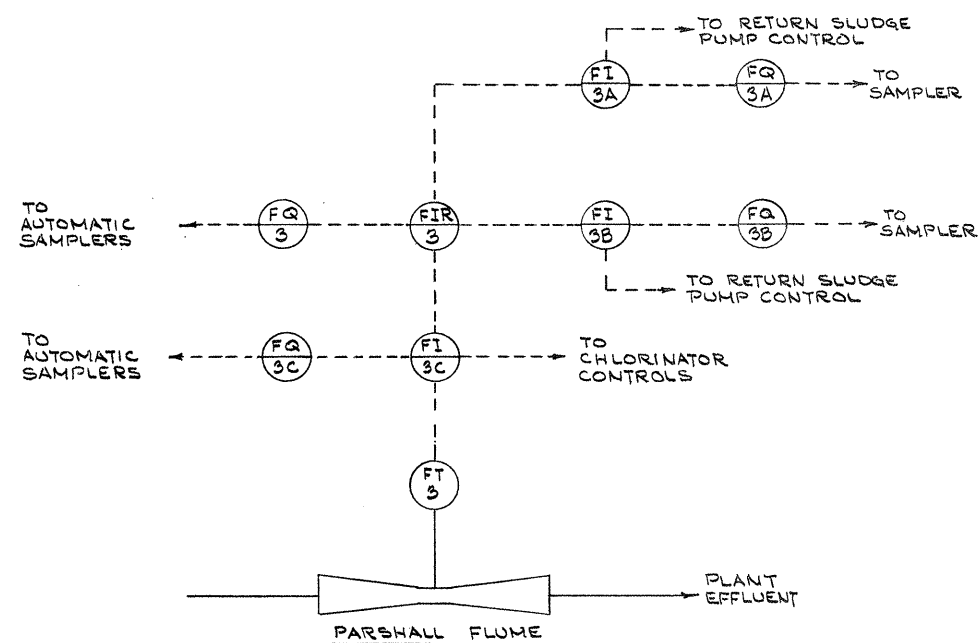
DRAWING NO.
E-32



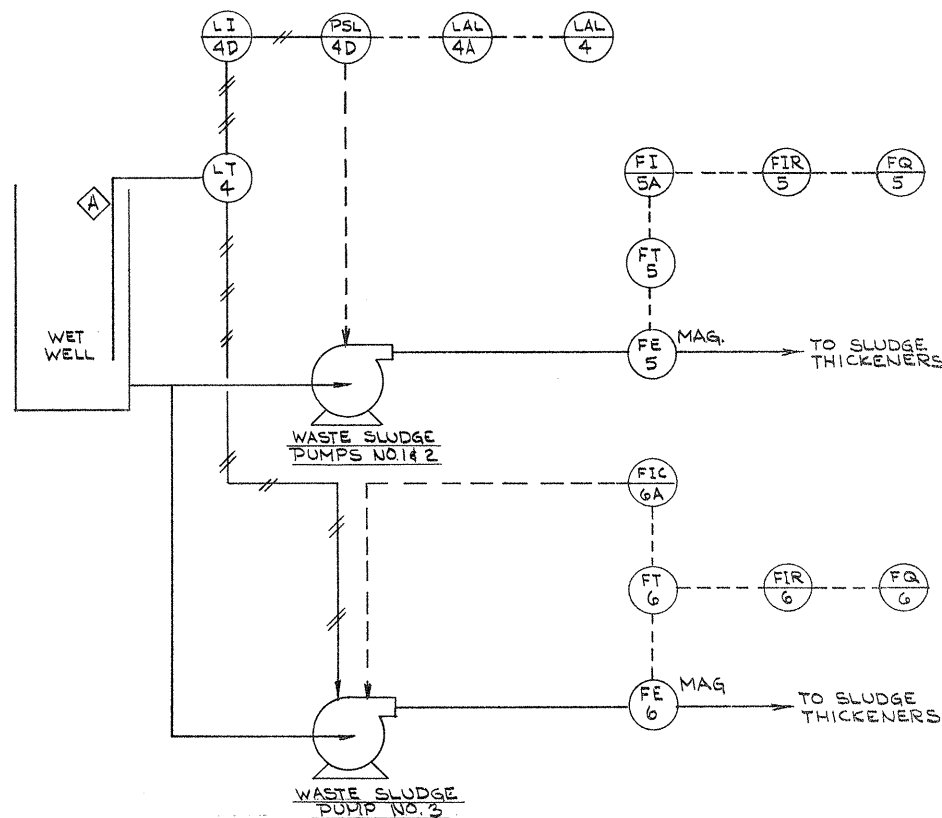
PRIMARY SLUDGE MONITORING



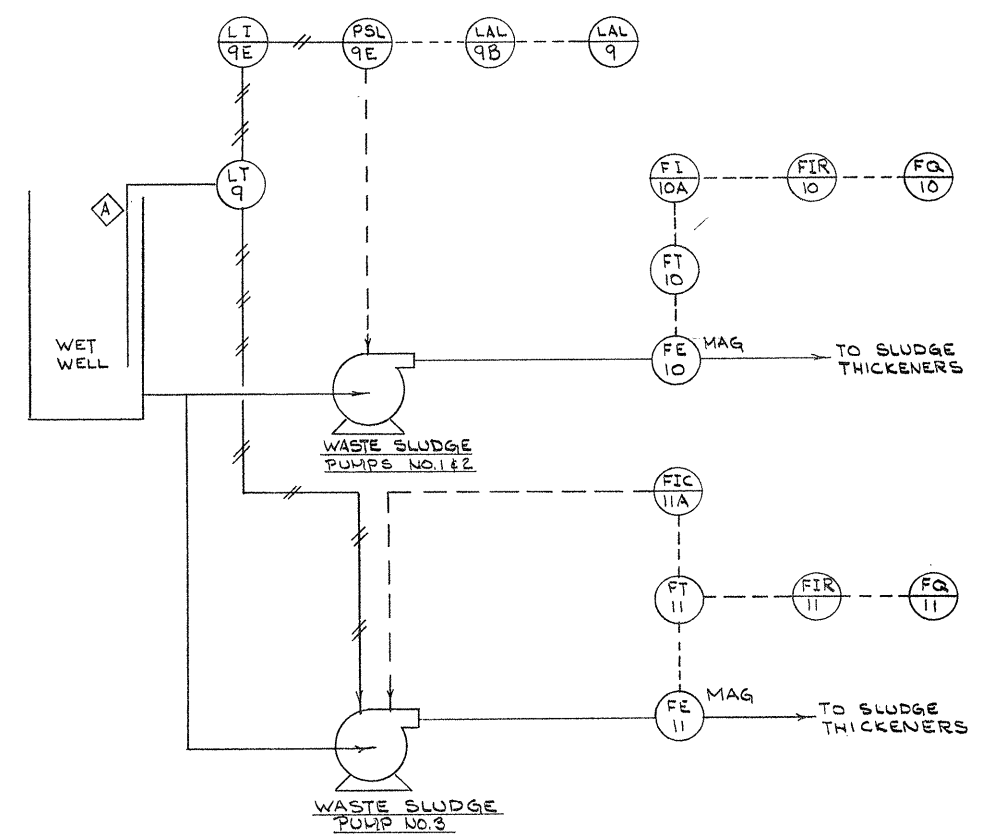
PRIMARY EFFLUENT - FLOW CONTROL



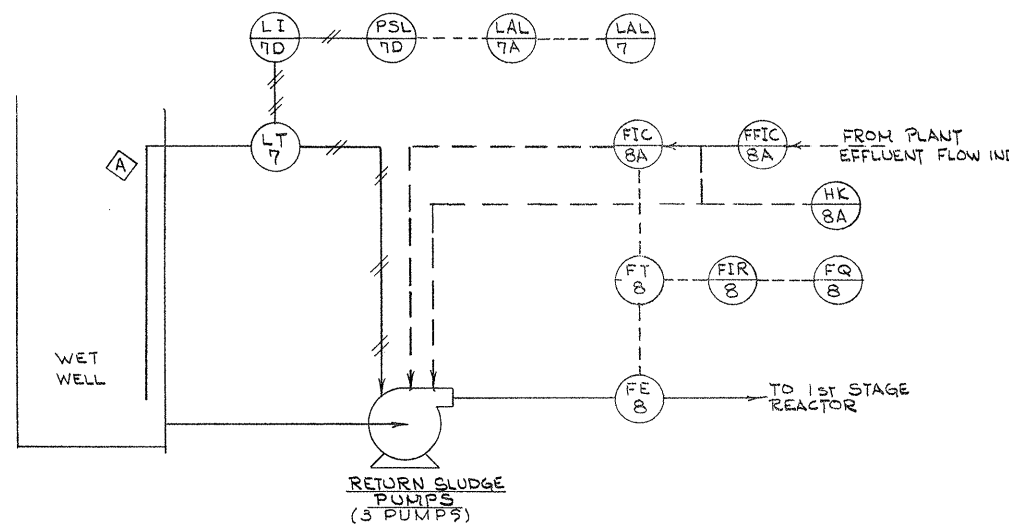
EFFLUENT FLOW MONITORING & CONTROL



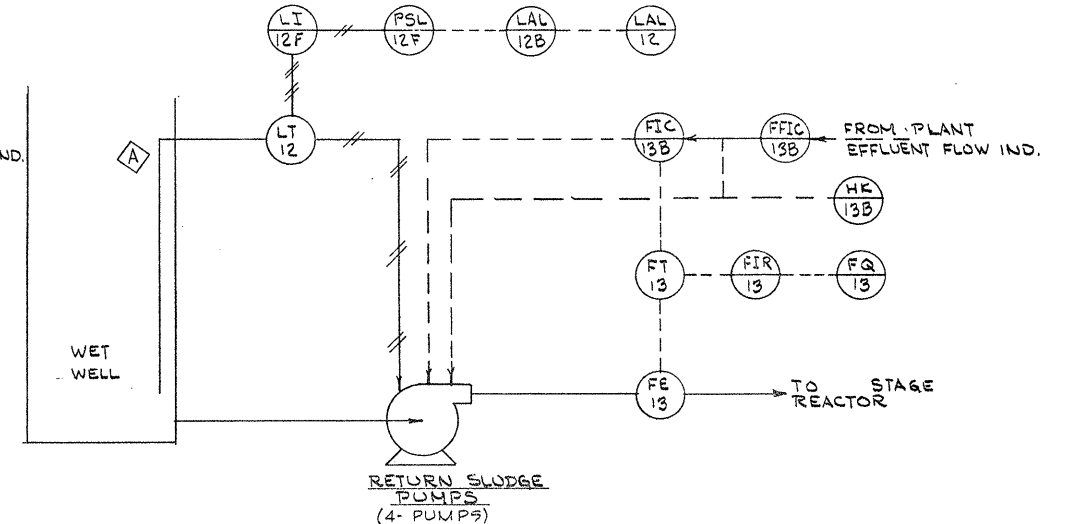
WASTE SLUDGE PUMPS (1st STAGE) CONTROL & MONITORING



WASTE SLUDGE PUMPS (2nd STAGE) CONTROL & MONITORING



RETURN SLUDGE PUMPS (1st STAGE) CONTROL & MONITORING



RETURN SLUDGE PUMPS (2nd STAGE) CONTROL & MONITORING

NOTES:
1. FOR GENERAL NOTES & LEGEND SEE DWG. NO. E-2

ATTENTION
THESE DRAWINGS HAVE
BEEN REDUCED

REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE



DRAWN: R. BURMAN DESIGNED: G. GACHOWSKI
 CHECKED: J. LITTLEJOHN APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974

CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

APPROVED
Charles J. Perry
 CITY OF TAUNTON

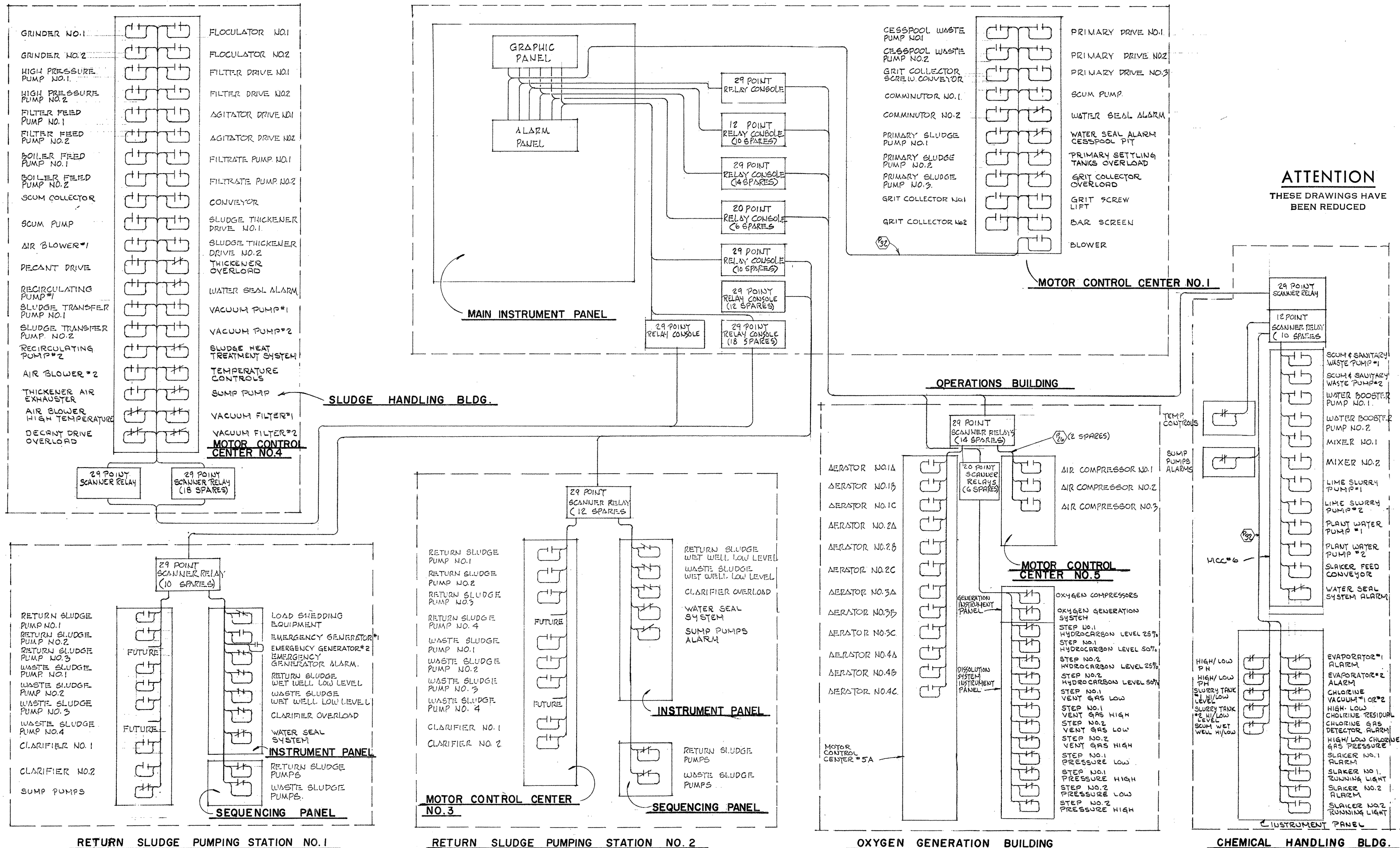
CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS

ELECTRICAL
 INSTRUMENTATION SHEET NO. 1

SCALE
 NO SCALE

CEM NO. 1981

DRAWING NO.
E-33



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REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE

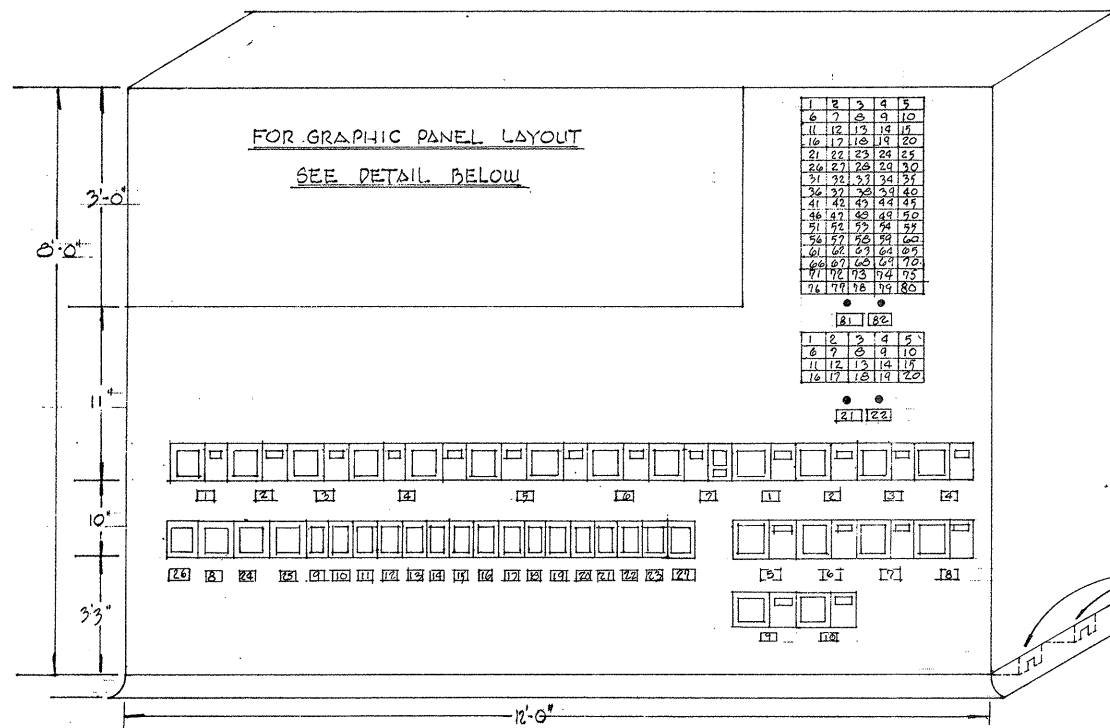


DRAWN: A. CLOUSPY DESIGNED: F. M. G. KNIGHT
 CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN
 DATE: JULY, 1974
CE MAGUIRE, INC.
 ARCHITECTS • ENGINEERS • PLANNERS
 PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.

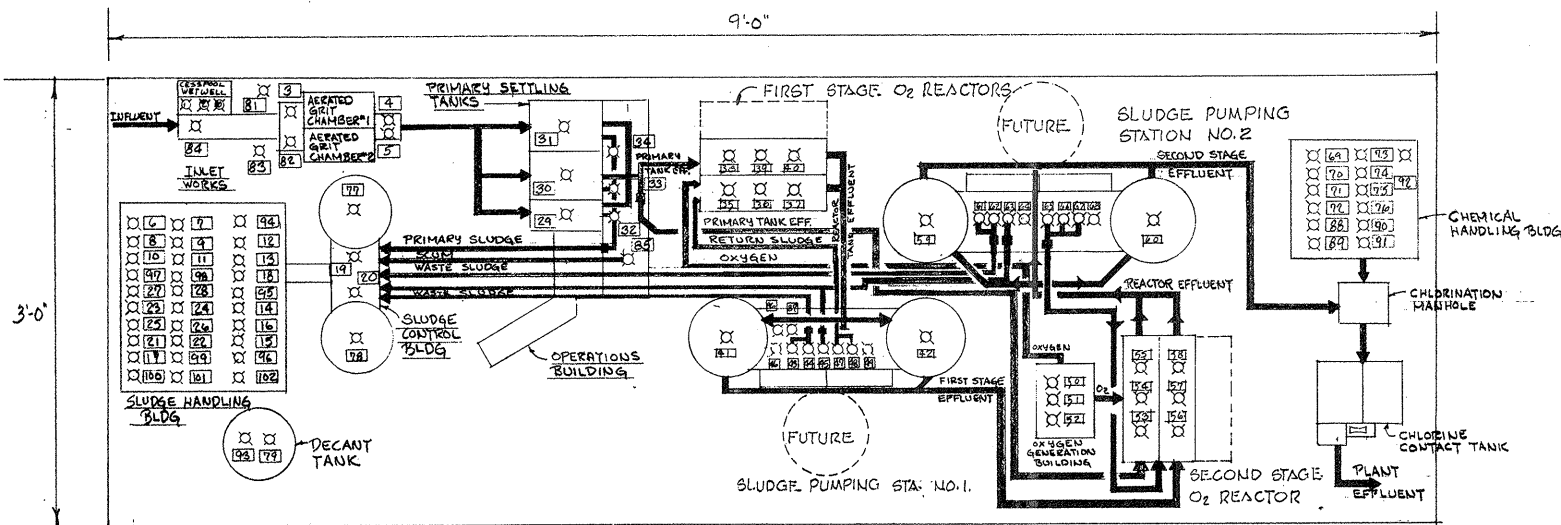
APPROVED
Charles E. Perry
 CITY OF TAUNTON

CITY OF TAUNTON, MASSACHUSETTS
WASTEWATER TREATMENT FACILITY
 ADDITIONS & IMPROVEMENTS
ELECTRICAL INSTRUMENTATION SHEET NO. 2

SCALE
 NONE
 CEM NO. 1981
 DRAWING NO.
E-34



MAIN INSTRUMENT BOARD



GRAPHIC PANEL DETAIL

80	BLOWER	89	PLANT WATER PUMP #2	97	VACUUM PUMP #1
81	GRIT COLLECTOR NO.1	90	LIME SLAKER #1	98	VACUUM PUMP #2
82	GRIT COLLECTOR NO.2	91	LIME SLAKER #2	99	BLANK (SPARE)
83	GRIT SCREEN LIFT	92	LIME FEED CONVEYOR	100	BLANK (SPARE)
84	BAR SCREEN	93	THICKENER AIR EXHAUSTER	101	BLANK (SPARE)
85	SCUM PUMP	94	HEAT TREATMENT SYSTEM	102	BLANK (SPARE)
86	EMERGENCY GENERATOR #1	95	RECIRCULATING PUMP #2		
87	EMERGENCY GENERATOR #2	96	SCUM COLLECTOR		
88	PLANT WATER PUMP #1				

GRAPHIC PANEL SCHEDULE	
1	CESSPOOL WASTE PUMP NO.1
2	CESSPOOL WASTE PUMP NO.2
3	GRIT COLLECTOR SCREW CONVEYOR
4	COMMINUTOR NO.1
5	COMMINUTOR NO.2
6	GRINDER NO.1
7	GRINDER NO.2
8	HIGH PRESSURE PUMP NO.1
9	HIGH PRESSURE PUMP NO.2
10	FILTER FEED PUMP NO.1
11	FILTER FEED PUMP NO.2
12	BOILER FEED PUMP NO.1
13	BOILER FEED PUMP NO.2
14	AIR BLOWER #1
15	SCUM PUMP
16	AIR BLOWER #2
17	CONVEYOR
18	RECIRCULATING PUMP NO.1
19	SLUDGE TRANSFER PUMP NO.1
20	SLUDGE TRANSFER PUMP NO.2
21	FLOCCULATOR NO.1
22	FLOCCULATOR NO.2
23	FILTER DRIVE NO.1
24	FILTER DRIVE NO.2
25	AGITATOR DRIVE NO.1
26	AGITATOR DRIVE NO.2
27	FILTRATE PUMP NO.1
28	FILTRATE PUMP NO.2
29	SETTLING DRIVE NO.1
30	SETTLING DRIVE NO.2
31	SETTLING DRIVE NO.3
32	PRIMARY SLUDGE PUMP NO.1
33	PRIMARY SLUDGE PUMP NO.2
34	PRIMARY SLUDGE PUMP NO.3
35	AERATOR NO. 1A
36	AERATOR NO. 1B
37	AERATOR NO. 1C
38	AERATOR NO. 2A
39	AERATOR NO. 2B
40	AERATOR NO. 2C
41	CLARIFIER NO.1
42	CLARIFIER NO.2
43	WASTE ACTIVATED SLUDGE PUMP NO.1
44	WASTE ACTIVATED SLUDGE PUMP NO.2
45	WASTE ACTIVATED SLUDGE PUMP NO.3
46	WASTE ACTIVATED SLUDGE PUMP (FUTURE)
47	RETURN SLUDGE PUMP NO.1
48	RETURN SLUDGE PUMP NO.2
49	RETURN SLUDGE PUMP NO.3 (FUTURE)

50	AIR COMPRESSOR NO.1
51	AIR COMPRESSOR NO.2
52	AIR COMPRESSOR NO.3
53	AERATOR NO.3A
54	AERATOR NO.3B
55	AERATOR NO.3C
56	AERATOR NO.4A
57	AERATOR NO.4B
58	AERATOR NO.4C
59	CLARIFIER NO.3
60	CLARIFIER NO.4
61	WASTE ACTIVATED SLUDGE PUMP NO.1
62	WASTE ACTIVATED SLUDGE PUMP NO.2
63	WASTE ACTIVATED SLUDGE PUMP NO.3
64	WASTE ACTIVATED SLUDGE PUMP (FUTURE)
65	RETURN SLUDGE PUMP NO.1
66	RETURN SLUDGE PUMP NO.2
67	RETURN SLUDGE PUMP NO.3
68	RETURN SLUDGE PUMP NO.4 (FUTURE)
69	SCUM SANITARY WASTE PUMP #1
70	SCUM SANITARY WASTE PUMP #2
71	WATER BOOSTER PUMP NO.1
72	WATER BOOSTER PUMP NO.2
73	MIXER NO.1
74	MIXER NO.2
75	LIME SLURRY PUMP #1
76	LIME SLURRY PUMP #2
77	SLUDGE THICKENER DRIVE NO.1
78	SLUDGE THICKENER DRIVE NO.2
79	DECANT DRIVE

TREAT. PLANT INSTR. SCHEDULE	
1	EFFLUENT FLOW
2	1ST STAGE RETURN SLUDGE FLOW
3	2ND STAGE RETURN SLUDGE FLOW
4	1ST STAGE WASTE SLUDGE FLOW
5	2ND STAGE WASTE SLUDGE FLOW
6	PRIMARY SLUDGE
7	PRIMARY EFFLUENT
8	CHLORINE RESIDUAL
9	STEP NO.1 - HYDROCARBON LEVEL
10	STEP NO.1 - VENT GAS LEVEL
11	STEP NO.1 - PRESSURE LEVEL
12	STEP NO.1 - OXYGEN FLOW
13	STEP NO.2 - HYDROCARBON
14	STEP NO.2 - VENT GAS LEVEL
15	STEP NO.2 - PRESSURE LEVEL
16	STEP NO.2 - OXYGEN FLOW
17	COLD BOX - HYDROCARBON LEVEL
18	COLD BOX - NITROGEN LEVEL
19	COLD BOX - OXYGEN LEVEL
20	COLD BOX - OXYGEN FLOW
21	COLD BOX - CONDENSER LEVEL
22	COLD BOX - HIGH PRESSURE LEVEL
23	COLD BOX - TANK LEVEL
24	PH REACTOR #2 TRAIN #1
25	PH REACTOR #2 TRAIN #2
26	INFLUENT P.H.
27	AMMONIA CONCENTRATE

PUMPING STA. INSTR. PANEL

PUMPING STA. ALARM PN'L.

LEGEND

- ELECTRONIC RECORDER
- ELECTRONIC TOTALIZER
- ELECTRONIC INDICATOR
- INDICATING LIGHT
- ELECTRONIC CONTROLLER

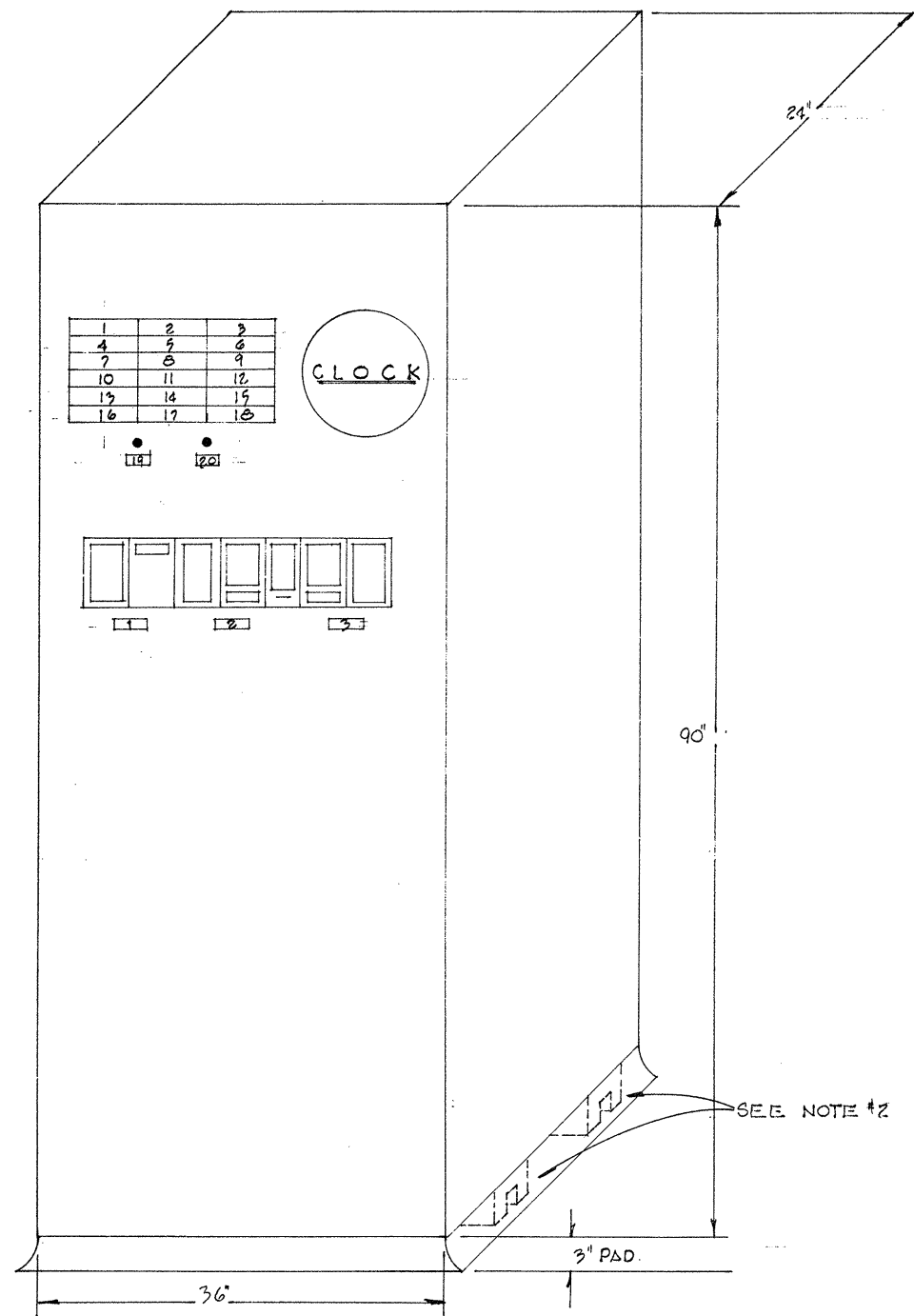
NOTES

1. FOR GENERAL NOTES & LEGEND. SEE DWG. NO. E-2.
2. PROVIDE SHIPPING CHANNELS GROUTED INTO EQUIPMENT PAD.

TREAT. PANEL ALARM SCHED.	
1.	OXYGEN COMPRESSORS
2.	OXYGEN GENERATION SYSTEM
3.	STEP NO.1-HYDROCARBON LEVEL 25%
4.	STEP NO.1-HYDROCARBON LEVEL 50%
5.	STEP NO.2-HYDROCARBON LEVEL 25%
6.	STEP NO.2-HYDROCARBON LEVEL 50%
7.	STEP NO.1-VENT GAS LOW
8.	STEP NO.1-VENT GAS HIGH
9.	STEP NO.2-VENT GAS LOW
10.	STEP NO.2-VENT GAS HIGH
11.	STEP NO.1-PRESSURE LOW
12.	STEP NO.1-PRESSURE HIGH
13.	STEP NO.2-PRESSURE LOW
14.	STEP NO.2-PRESSURE HIGH
15.	GRIT COLLECTOR OVERLOAD
16.	GRIT CHAMBER AIR COMPRESSOR-HIGH TEMPERATURE
17.	1ST STAGE RETURN SLUDGE WET WELL HIGH-LOW LEVEL
18.	2ND STAGE RETURN SLUDGE WET WELL HIGH-LOW LEVEL
19.	1ST STAGE WASTE SLUDGE WET WELL HIGH-LOW LEVEL
20.	2ND STAGE WASTE SLUDGE WET WELL HIGH-LOW LEVEL
21.	1ST STAGE RETURN SLUDGE PUMPS
22.	1ST STAGE WASTE SLUDGE PUMPS
23.	2ND STAGE RETURN SLUDGE PUMPS
24.	2ND STAGE WASTE SLUDGE PUMPS
25.	1ST STAGE WATER SEAL
26.	2ND STAGE WATER SEAL
27.	1ST STAGE SETTLING TANKS OVERLOAD
28.	2ND STAGE SETTLING TANKS OVERLOAD
29.	VACUUM FILTER NO.1
30.	VACUUM FILTER NO.2
31.	THICKENER OVERLOAD
32.	SLUDGE HEAT TREATMENT SYSTEM SEAL SYSTEM
33.	SLUDGE HANDLING BUILDING WATER
34.	PRIMARY SETTLING TANKS OVERLOAD
35.	PRIMARY SLUDGE WATER SEAL SYSTEM
36.	WASH WATER SYSTEM
37.	HIGH-LOW CHLORINE RESIDUAL
38.	CHLORINE GAS DETECTOR
39.	EVAPORATOR NO.1
40.	EVAPORATOR NO.2
41.	CHLORINE VACUUM
42.	LOW CHLORINE GAS PRESSURE
43.	TEMPERATURE CONTROLS
44.	LOAD SHEDDING
45.	EMERGENCY GENERATOR
46.	SUMP PUMPS-SLUDGE PUMP STATION NO.1
47.	SUMP PUMPS-SLUDGE PUMP STATION NO.2
48.	CHEMICAL HANDLING BUILDING WATER SEAL
49.	LIME SLAKER NO.1
50.	LIME SLAKER NO.2
51.	LIME STORAGE TANKS HIGH/LOW LEVEL
52.	SCUM WET WELL HIGH/LOW LEVEL
53.	HIGH/LOW PH TRAIN NO.1
54.	HIGH/LOW PH TRAIN NO.2
55.	SUMP PUMPS CHEMICAL HANDLING BUILDING
56.	SLUDGE HANDLING BUILDING SUMP PUMPS
57.	INLET WORKS WATER SEAL
58.	DECANT DRIVE OVERLOAD
59.	OPERATIONS BLDG WATER SEAL
60.	H/Low INFLUENT P.H.
61.	H/Low AMMONIA CONCENTRATE
62-80	SPARES
81	LAMP TEST PUSHBUTTON
82	ACKNOWLEDGE PUSHBUTTON

ATTENTION
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DRAWN: F. MC KNIGHT DESIGNED: A. CLOUSPY CHECKED: G. GACHOWSKI APPROVED: J. LITTLEJOHN DATE: JULY, 1974				CITY OF TAUNTON, MASSACHUSETTS WASTEWATER TREATMENT FACILITY ADDITIONS & IMPROVEMENTS				SCALE NOT TO SCALE CEM NO. 1981	
CE MAGUIRE, INC. ARCHITECTS • ENGINEERS • PLANNERS PROVIDENCE, R.I. WETHERSFIELD, CONN. WALTHAM, MASS.				APPROVED CITY OF TAUNTON				DRAWING NO. E-35	
REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE	ELECTRICAL INSTRUMENTATION SHEET NO.3	



RETURN SLUDGE PUMPING STATION NO.1
 INSTRUMENT PANEL
 TYPICAL OF NO.2

RETURN SLUDGE PUMPING STA.

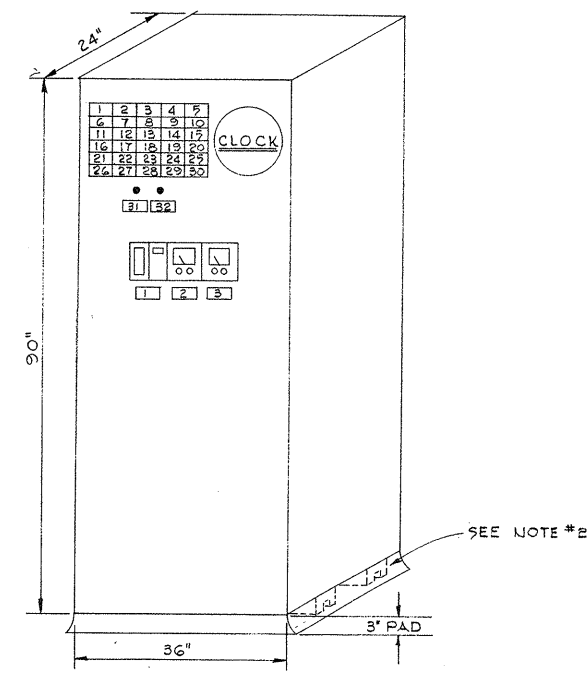
ALARM PANEL SCHEDULE	
1.	1ST STAGE (2ND. STAGE)
2.	SETTLING TANK NO.1 OVERLOAD
3.	1ST STAGE (2ND. STAGE)
4.	SETTLING TANK NO.2 OVERLOAD
5.	1ST STAGE (2ND. STAGE)
6.	SETTLING TANK NO.3 OVERLOAD
7.	RETURN SLUDGE WET WELL - LOW LEVEL
8.	WASTE SLUDGE WET WELL - LOW LEVEL
9.	WATER SEAL PUMPS
10.	RETURN SLUDGE PUMPS
11.	WASTE SLUDGE PUMPS
12.	SUMP PUMPS
13.	SPARE
14.	SPARE
15.	SPARE
16.	SPARE
17.	SPARE
18.	SPARE
20.	TEST
21.	ACKNOWLEDGE

RETURN SLUDGE PUMPING STA.

INSTR. PANEL SCHEDULE	
1.	EFFLUENT FLOW
2.	TOTAL RETURN SLUDGE
3.	WASTE SLUDGE FLOW

- NOTES**
- GENERAL NOTES & LEGEND SEE DMG. NO. E-2.
 - PROVIDE SHIPPING CHANNELS GROUDED INTO EQUIPMENT PAD.

- LEGEND**
- INDICATOR
 - RATIO STATION
 - INDICATING CONTROLLER
 - TOTALIZER
 - NAMEPLATE
 - PUSH BUTTON
 - MANUAL CONTROL STATION
 - PH ANALYZER



CHLORINE BUILDING
 INSTRUMENT PANEL
 NOT TO SCALE

CHLORINE BLDG - ALARM PANEL

PART NO.	NAMEPLATE
1	EVAPORATOR #1
2	EVAPORATOR #2
3	CHLORINE VACUUM #1
4	CHLORINE VACUUM #2
5	HIGH CHLORINE RESIDUAL
6	LOW CHLORINE RESIDUAL
7	HIGH CHLORINE GAS PRESSURE
8	LOW CHLORINE GAS PRESSURE
9	CHLORINE GAS DETECTOR
10	SLAKER #1
11	SLAKER #2
12	HIGH PH - O ₂ REACTOR (1ST TRAIN)
13	LOW PH - O ₂ REACTOR (1ST TRAIN)
14	HIGH PH - O ₂ REACTOR (2ND TRAIN)
15	LOW PH - O ₂ REACTOR (2ND TRAIN)
16	LIME SLURRY TANK #1 HIGH LEVEL
17	LIME SLURRY TANK #1 LOW LEVEL
18	LIME SLURRY TANK #2 HIGH LEVEL
19	LIME SLURRY TANK #2 LOW LEVEL
20	SCUM WET WELL - HIGH LEVEL
21	SCUM WET WELL - LOW LEVEL
22	WATER SEAL SYSTEM
23	SUMP PUMPS
24	TEMPERATURE CONTROLS
25	THRU
26	SPARES
27	TEST
28	ACKNOWLEDGE

CHLORINE BLDG. INSTR. PANEL

PART NO.	NAMEPLATE
1	EFFLUENT FLOW
2	PH TRAIN NO.1
3	PH

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				CE MAGUIRE, INC. ARCHITECTS • ENGINEERS • PLANNERS PROVIDENCE, R.I. WETHERFIELD, CONN. WALTHAM, MASS.				APPROVED 		ELECTRICAL INSTRUMENTATION SHEET NO.4		DRAWING NO. E-36	
REVISION NUMBER	DESCRIPTION	INT.	DATE	REVISION NUMBER	DESCRIPTION	INT.	DATE						