

CITY OF
CONWAY, SOUTH CAROLINA
WASTE FACILITIES IMPROVEMENTS

SEPTEMBER, 1977

JOB NO. C-374

EPA PROJECT NUMBER C450486-01

CITY OF CONWAY, SOUTH CAROLINA

KENNETH S. HOLT.....MAYOR

COUNCILMEN:

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HOWARD BANNER
CLEVELAND L. FLADGER
JAMES B. GOLDFINCH
WILLIAM D. AVANT, JR.
LLOYD B. DAVIS

R.S. WINFIELD.....DIRECTOR OF PUBLIC WORKS

BILL GRAHAM.....CITY ADMINISTRATOR

*Agreed and Approved As Correct
The City of Conway*

By Gregory K. Martin, Mayor

G.S.W. + SA

By Fred R. Rucker

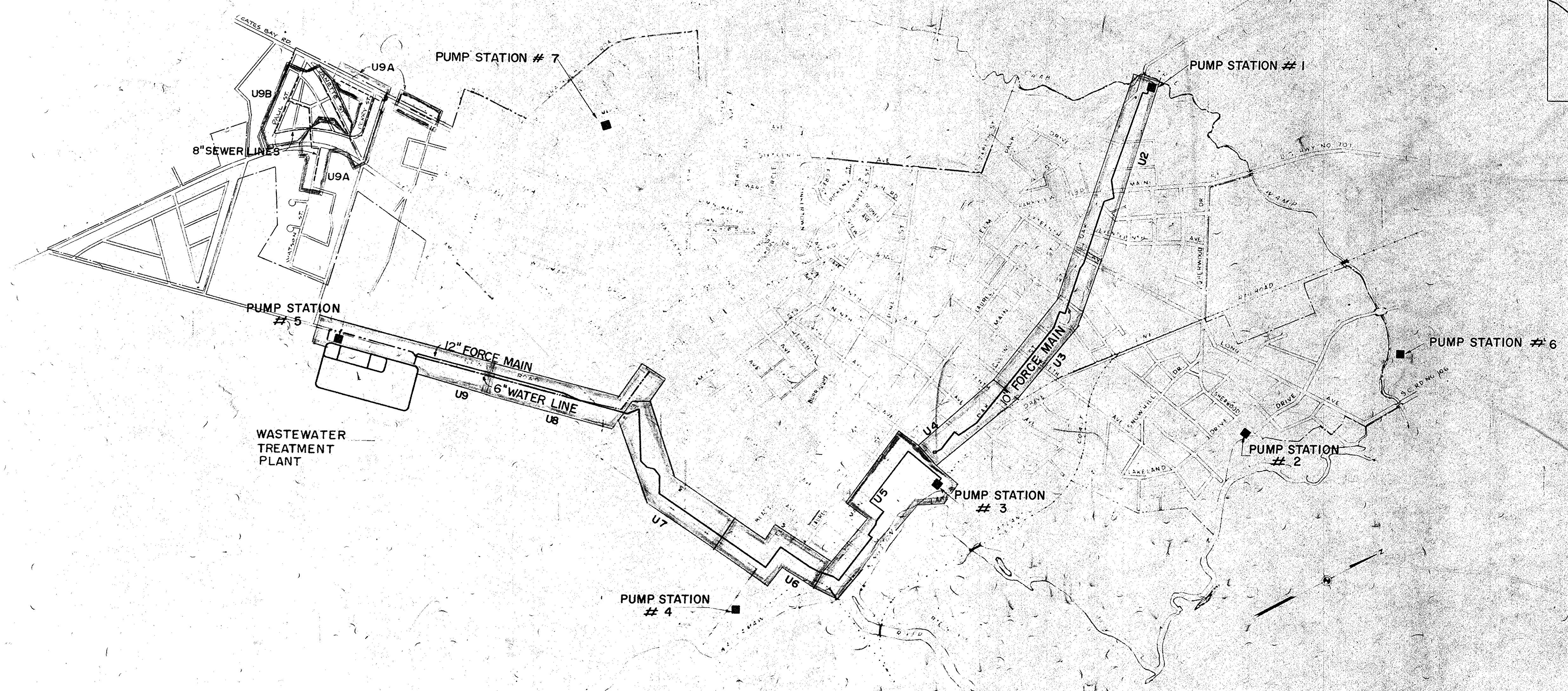
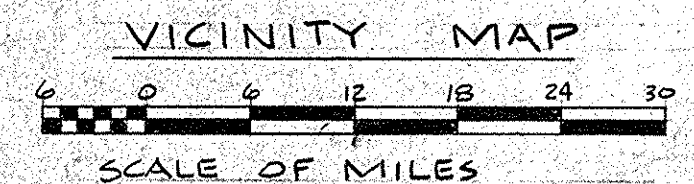
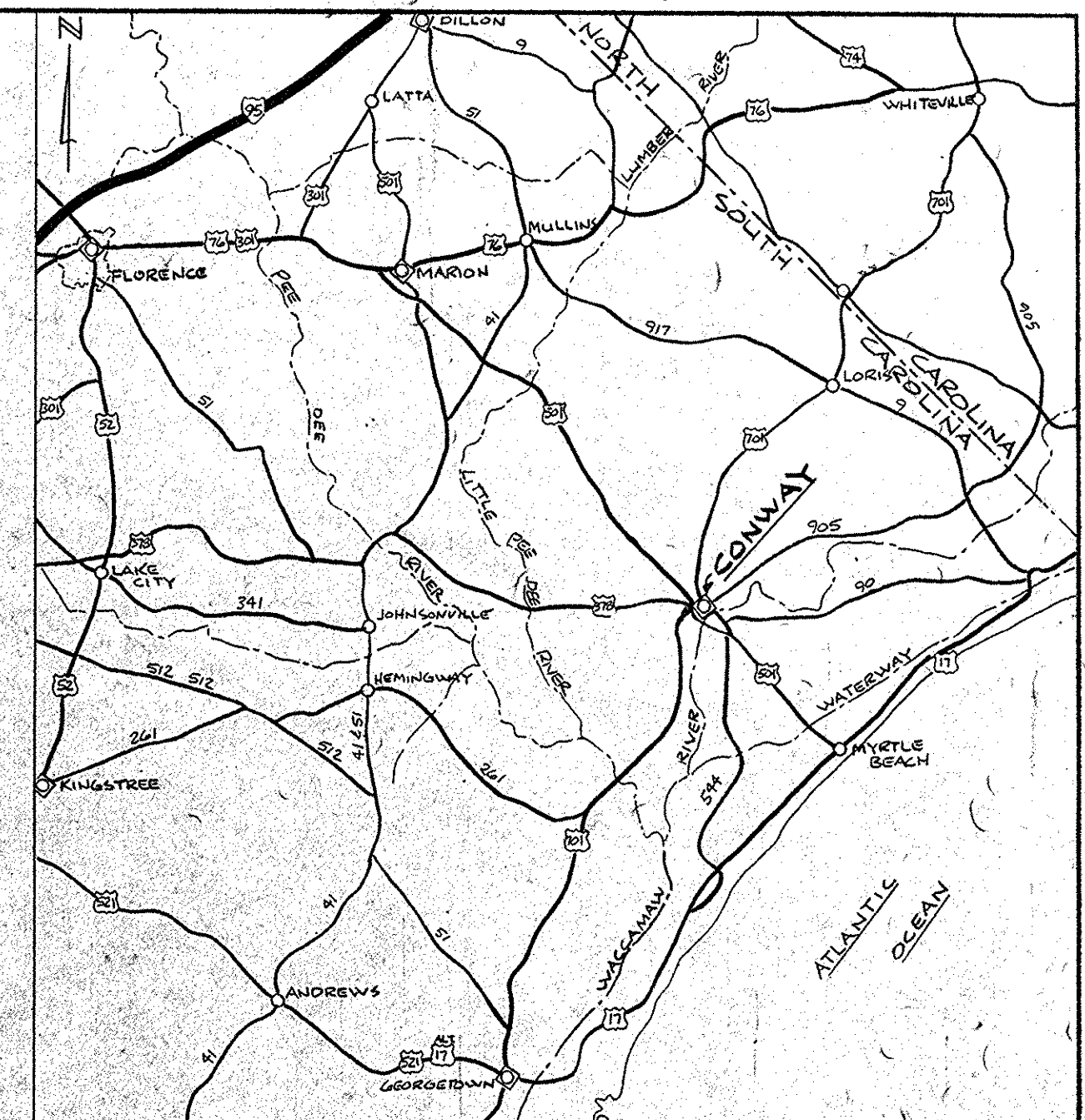
Dated 12-5-95

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THE HARWOOD BEEBE COMPANY
ENGINEERS

FLORENCE, S.C.

SPARTANBURG, S.C.

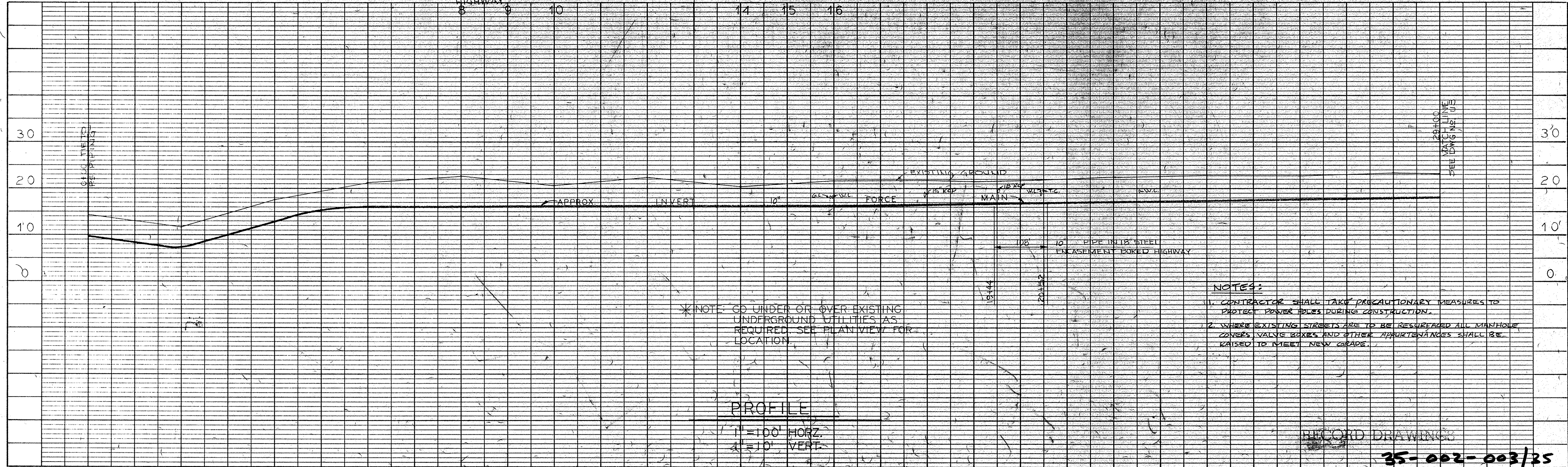


- LEGEND**
- FORCE MAIN
 - - - WATER LINE
 - PUMP STATION
 - INDICATES DWG. ON WHICH LINE IS SHOWN
 - U2
 - - - SEWER LINE

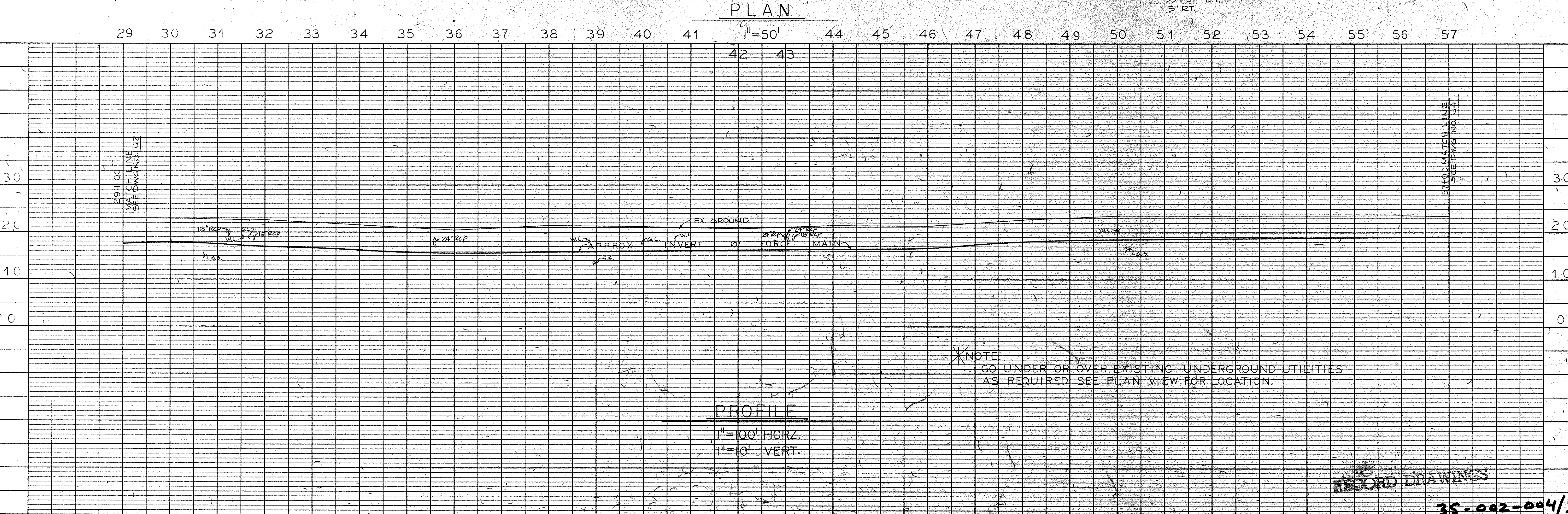
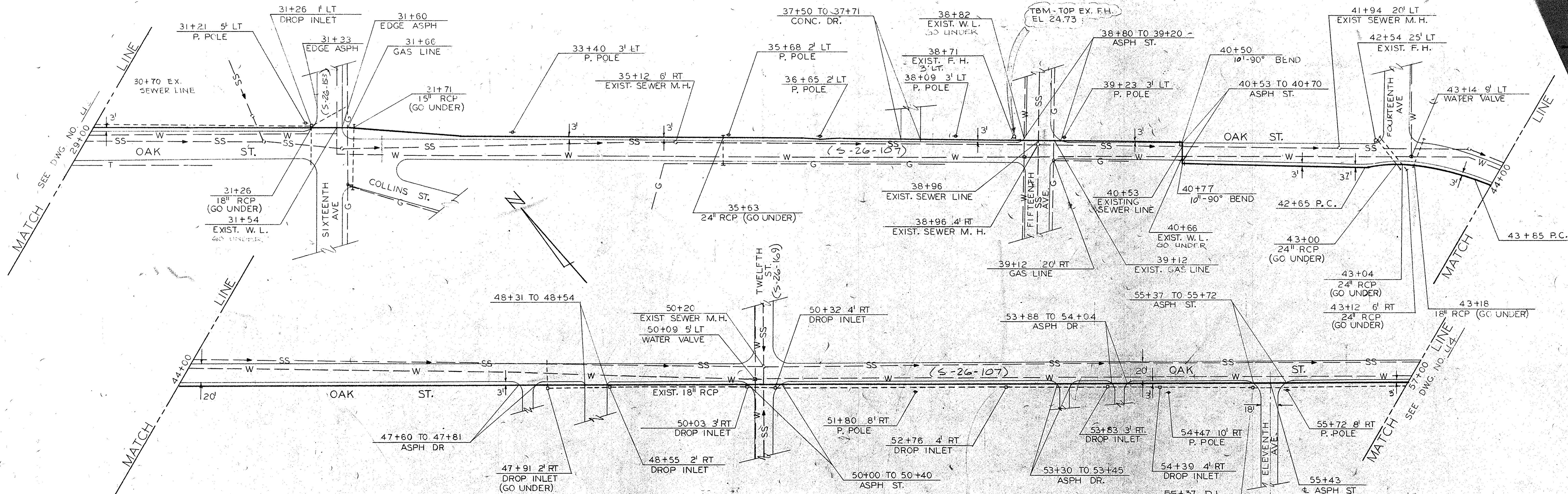
RECORD DRAWINGS

35-002-002/35

NO. DATE BY REVISION				HARWOOD BEEBE SPARTANBURG, S. C. FLORENCE, S. C. COLUMBIA, S. C.		SCALE 1"=1000' DATE SEPT. 1977 DRAWN BY W.M.M. CHECKED BY J.O.T. APPROVED BY H.S.M.		PROJECT NO. EPA C450486-01 JOB NO. C-374 FILE NO.		CITY OF CONWAY WASTE FACILITIES IMPROVEMENTS PROJECT SITE MAP		DRAWING NO. U1 OF 10 SEQUENCE NO. 2 OF 28	
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DRAWING		SEQUENCE	
NO.	OF	NO.	OF
12	10	3	28



PLAN	PROFILE	SURVEYED	BY	DATE
NOTE BOOK C-374 A NO. 15-22	NOTE BOOK C-374 A NO. 15-22	ALIGNMENT PLOTTED PROFILE PLOTTED GRADES CHECKED		

NO.	DATE	BY	REVISION

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SCALE: AS SHOWN
DATE: SEPT. 1977
DRAWN BY: G.M.D.
CHECKED BY: J.O.T.
APPROVED BY: H.S.M.

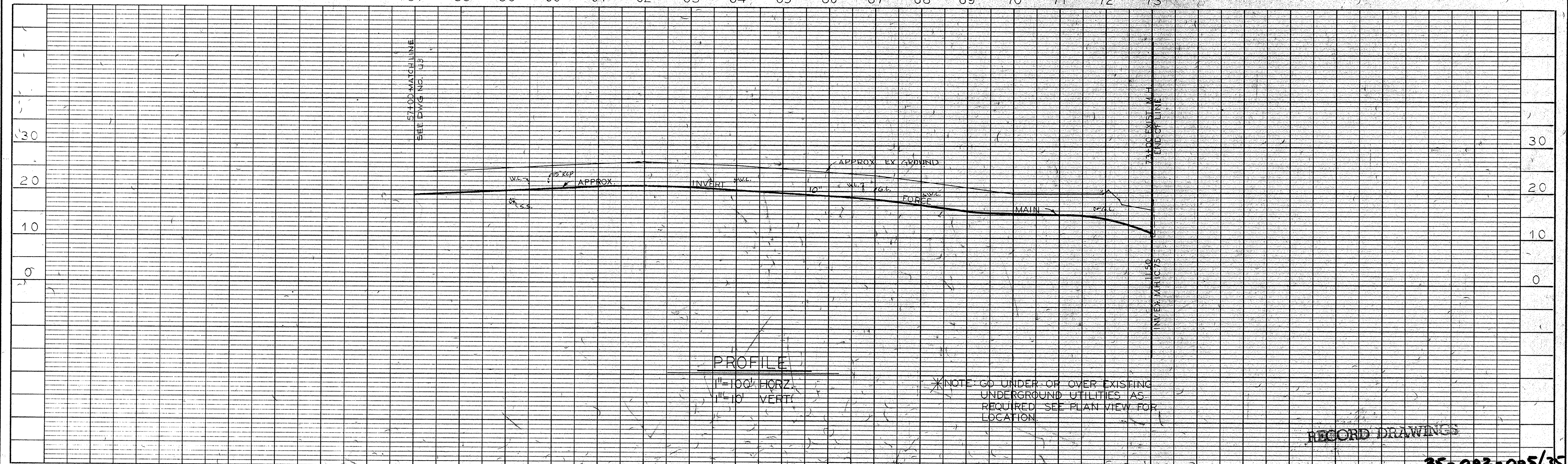
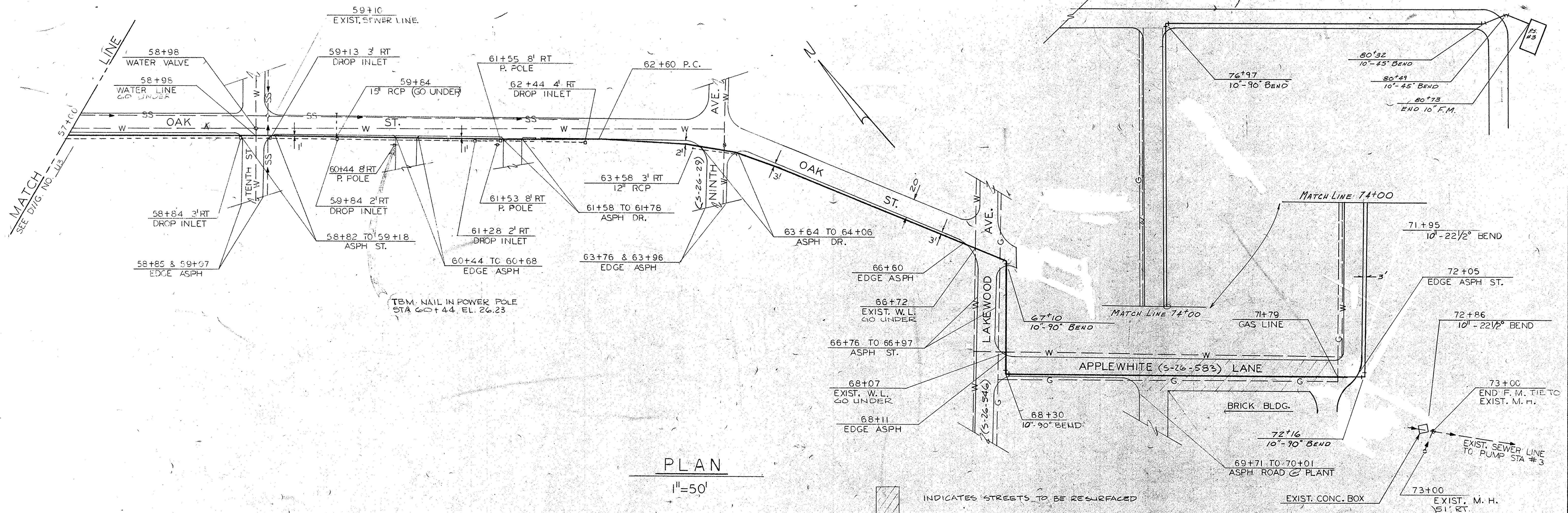
PROJECT NO.
EPAC450486-01
JOB NO.
C-374
FILE NO.

CITY OF CONWAY
WASTE FACILITIES IMPROVEMENTS
10" FORCE MAIN

DRAWING NO. **U3** OF 10
SEQUENCE NO. **4** OF 28

35-002-004/35

22-11-03



PLAN	PROFILE	SURVEYED	BY	DATE
NOTE BOOK C-374 A NOV. 15, 23	NOTE BOOK NO. 4749	ALIGNMENT PLOTTED PROFILE PLOTTED GRADES CHECKED		

NO.	DATE	BY	REVISION

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SPARTANBURG, S. C. FLORENCE, S. C. COLUMBIA, S. C.

SCALE: AS SHOWN
DATE: SEPT. 1977
DRAWN BY: G.M.D.
CHECKED BY: J.O.T.
APPROVED BY: H.S.M.

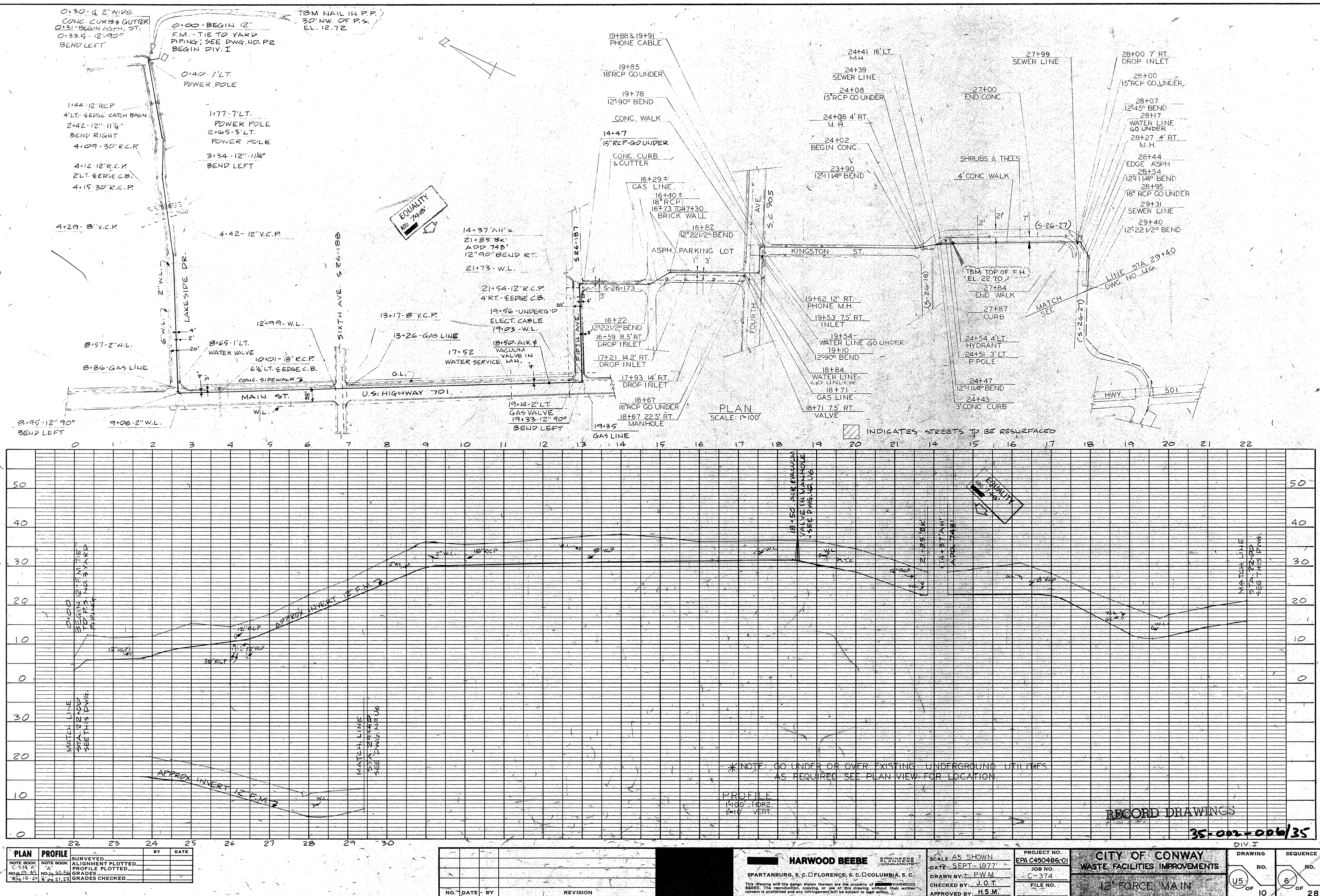
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EPA C450486-01
JOB NO.
C-374
FILE NO.

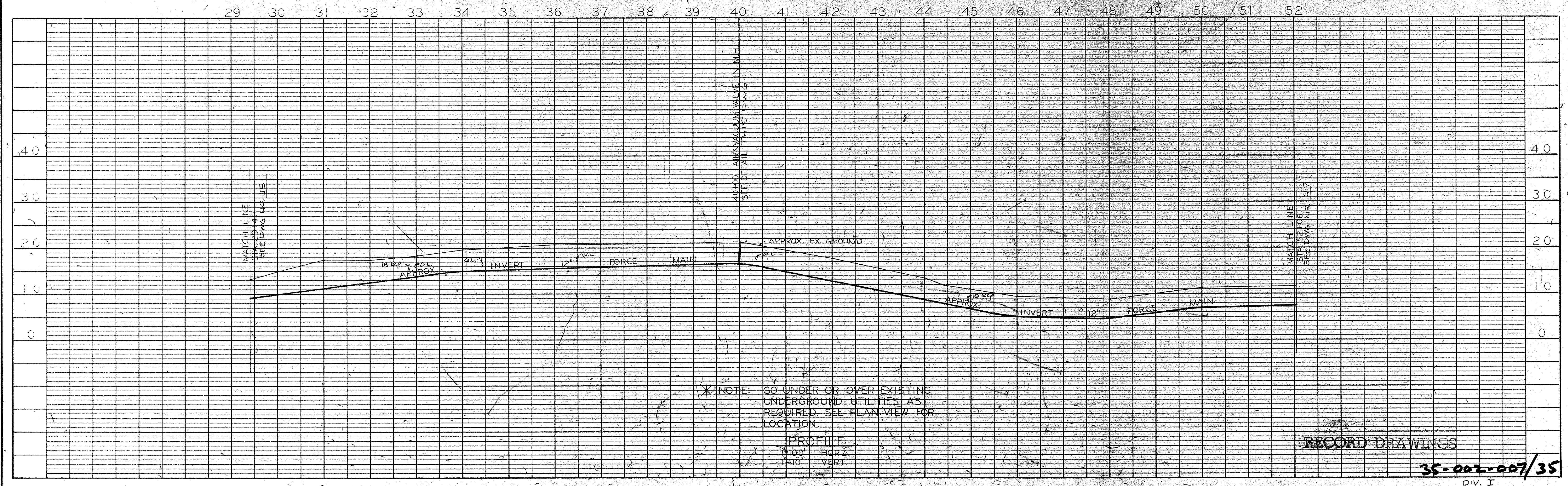
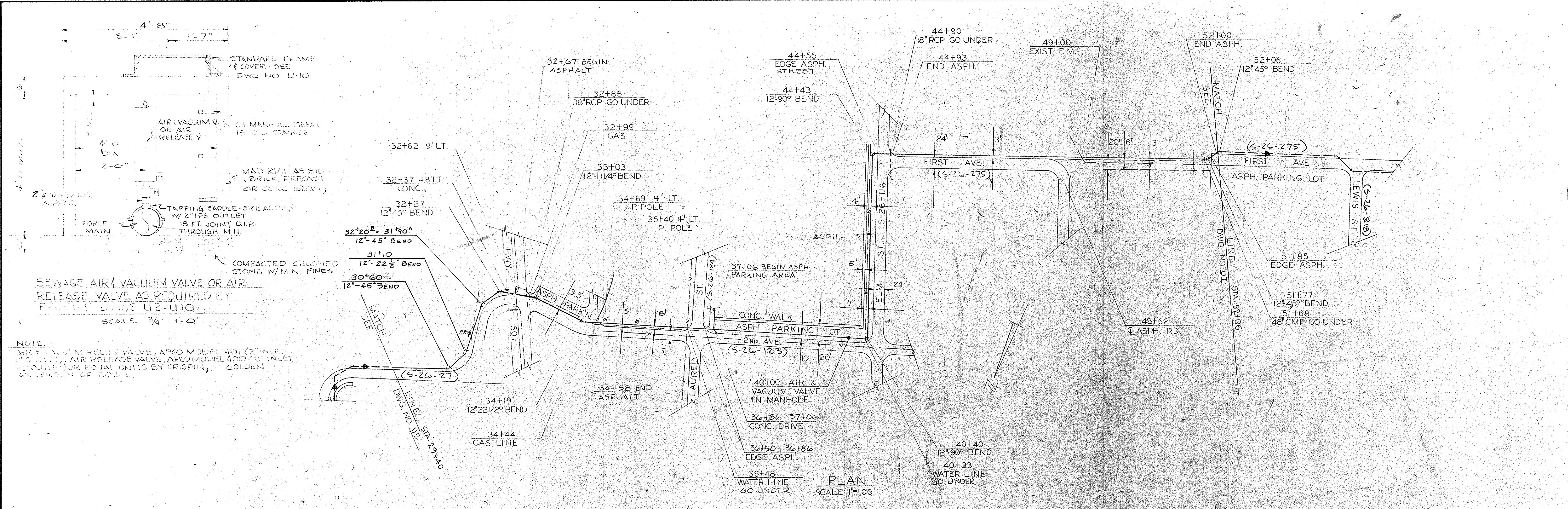
CITY OF CONWAY
WASTE FACILITIES IMPROVEMENTS
10" FORCE MAIN

DRAWING NO. 10
SEQUENCE NO. 5
OF 28

35-002-005/35

22-11-03





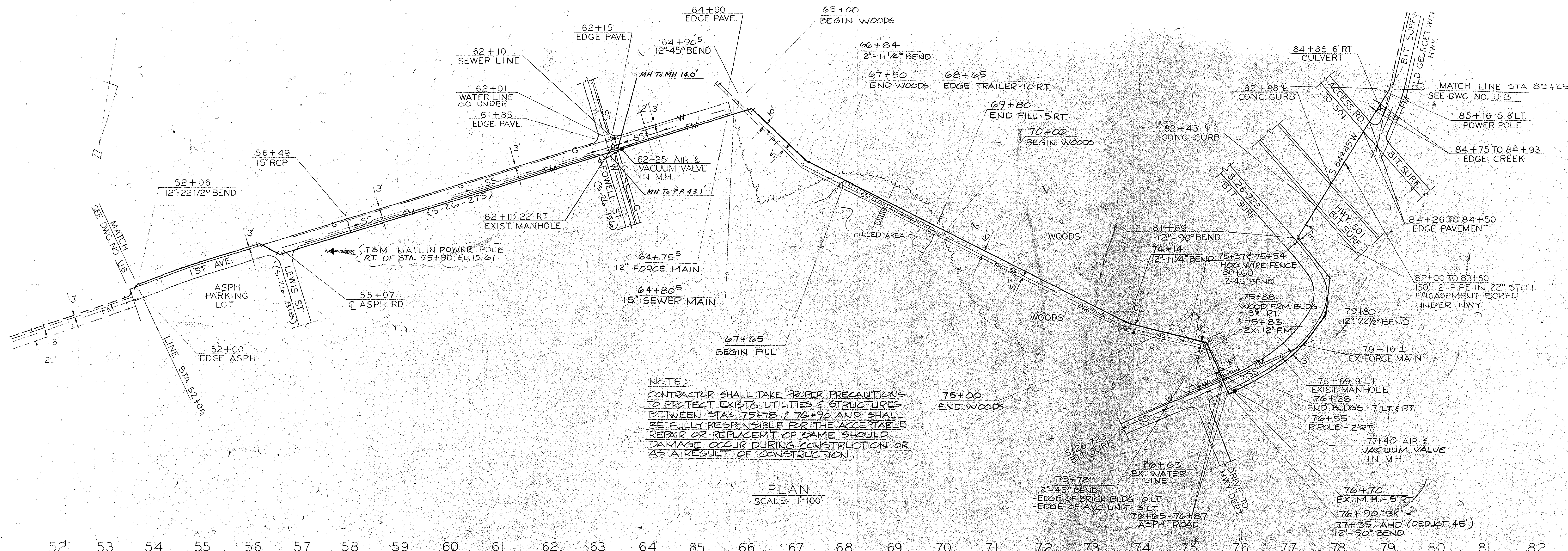
PLAN	PROFILE	BY	DATE
NOTE BOOK C-374-A NO. 22-42	NOTE BOOK NO. 22-52		
SURVEYED ALIGNMENT PLOTTED PROFILE PLOTTED GRADES CHECKED			

NO.	DATE	BY	REVISION

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SCALE: AS SHOWN DATE: SEPT 1977 DRAWN BY: PWM CHECKED BY: J.O.T. APPROVED BY: H.S.M.	PROJECT NO. EPA C450486-01 JOB NO. C-374 FILE NO.	CITY OF CONWAY WASTE FACILITIES IMPROVEMENTS 12" FORCE MAIN	DRAWING NO. 7 OF 10 SEQUENCE NO. 28 OF 28
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PLAN	PROFILE	BY	DATE
NOTE BOOK C-374 A NO. 20-49	NOTE BOOK C-374 A NO. 50-56		
SURVEYED	ALIGNMENT PLOTTED		
	PROFILE PLOTTED		
	GRADES CHECKED		

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SCALE: AS SHOWN
DATE: SEPT 1977
DRAWN BY: P.W.M.
CHECKED BY: J.O.T.
APPROVED BY: H.S.M.

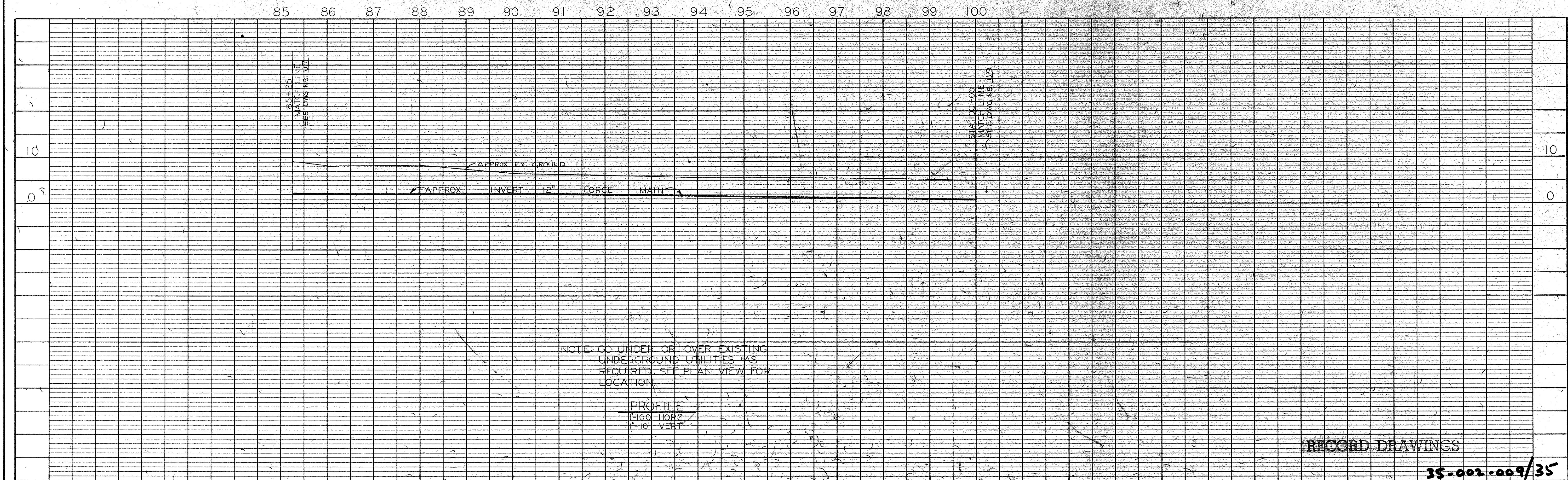
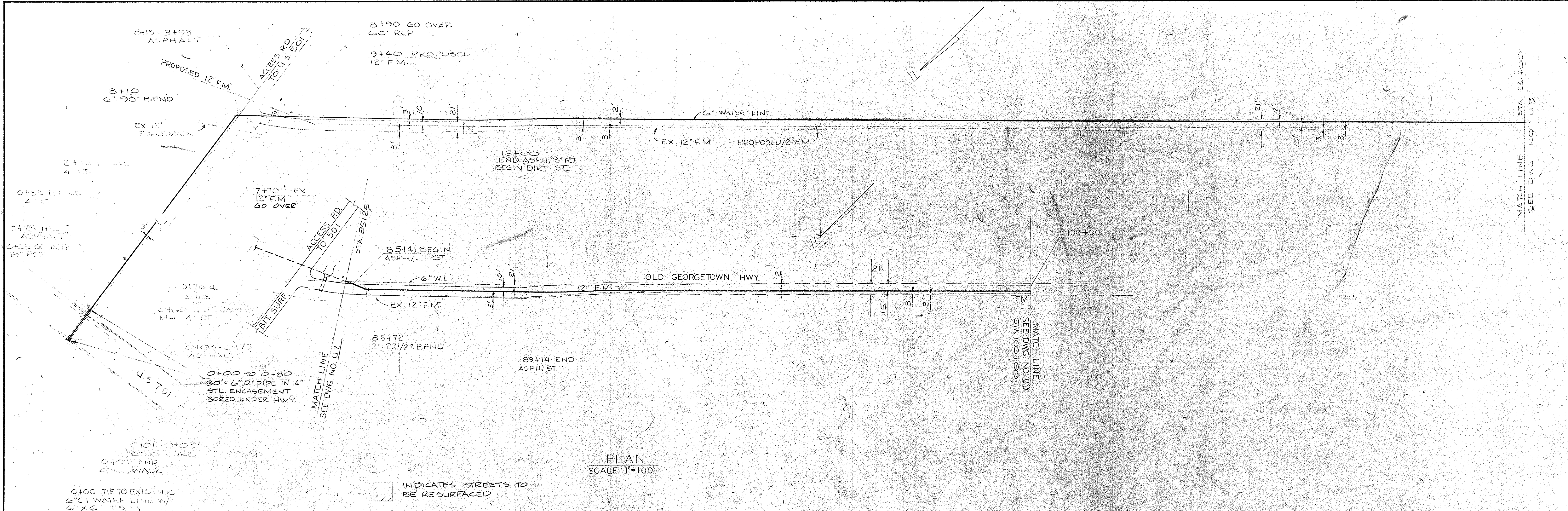
PROJECT NO.
EPA C450486-01
JOB NO.
C-374
FILE NO.

CITY OF CONWAY
WASTE FACILITIES IMPROVEMENTS
12' FORCE MAIN

DRAWING NO. 10
SEQUENCE NO. 8 OF 28
DIV. I

35-002-008 35

22-11-03

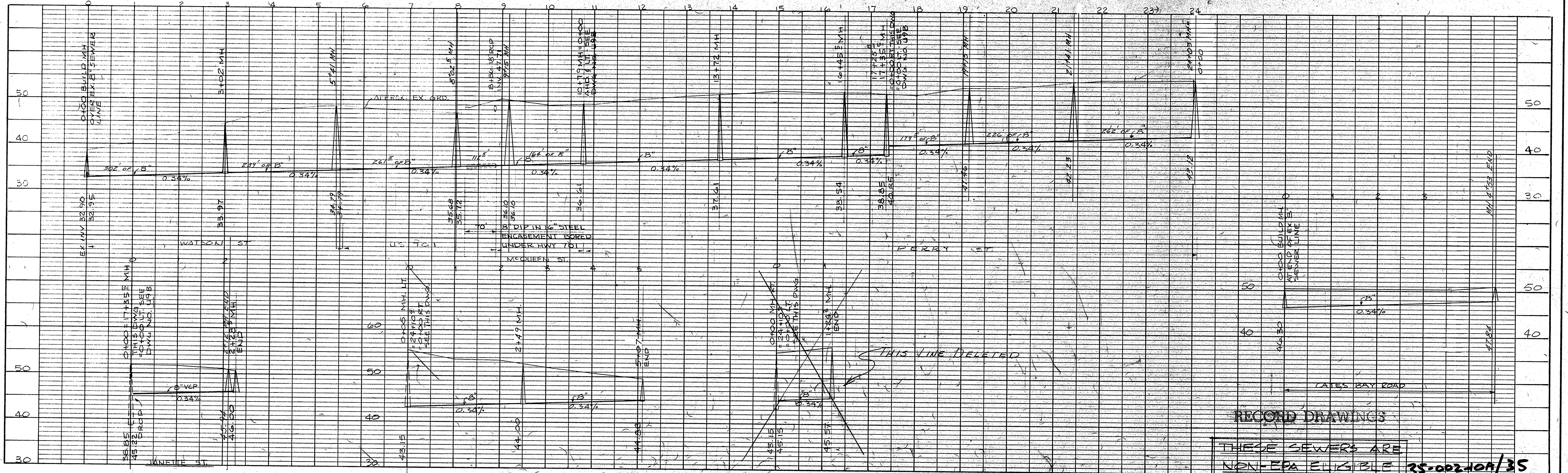




PLAN NOTE BOOK NO. 29-33	PROFILE NOTE BOOK NO. 50-54	SURVEYED ALIGNMENT PLOTTED PROFILE PLOTTED GRADES CHECKED	BY 	DATE
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	HARWOOD BEEBE ENGINEERS CONSULTANTS SPARTANBURG, S.C. FLORENCE, S.C. COLUMBIA, S.C.	SCALE: AS SHOWN DATE: SEPT. 1977 DRAWN BY: WMM CHECKED BY: J.O.T. APPROVED BY: H.S.M.	PROJECT NO. EPA C450486-01 JOB NO. C-374 FILE NO.
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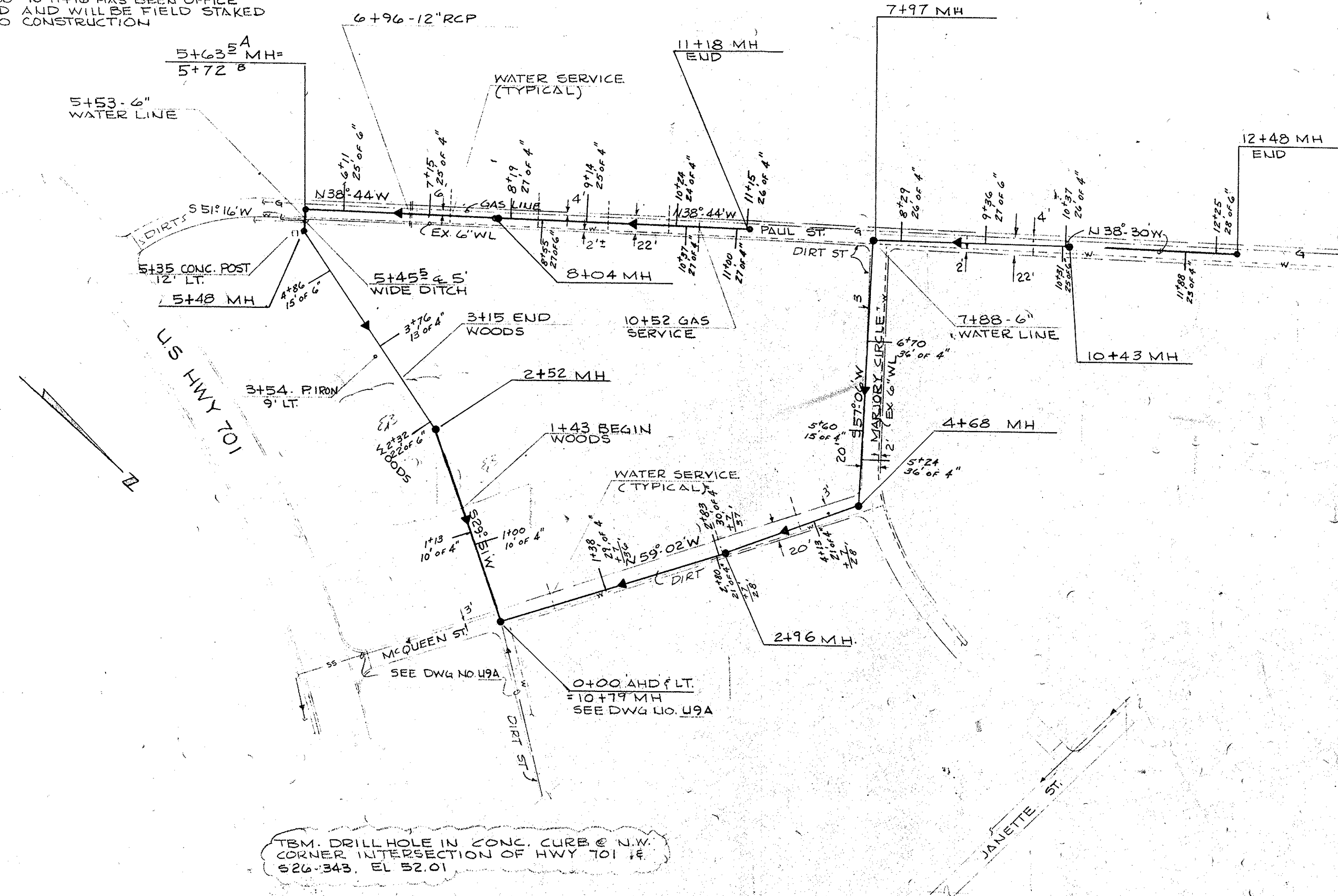
CITY OF CONWAY WASTE FACILITIES IMPROVEMENTS	
12" FORCE MAIN & 6" WATER LINE	DIV. I DRAWING NO. U8 OF 10 SEQUENCE NO. 9 OF 28

35-002-009/35

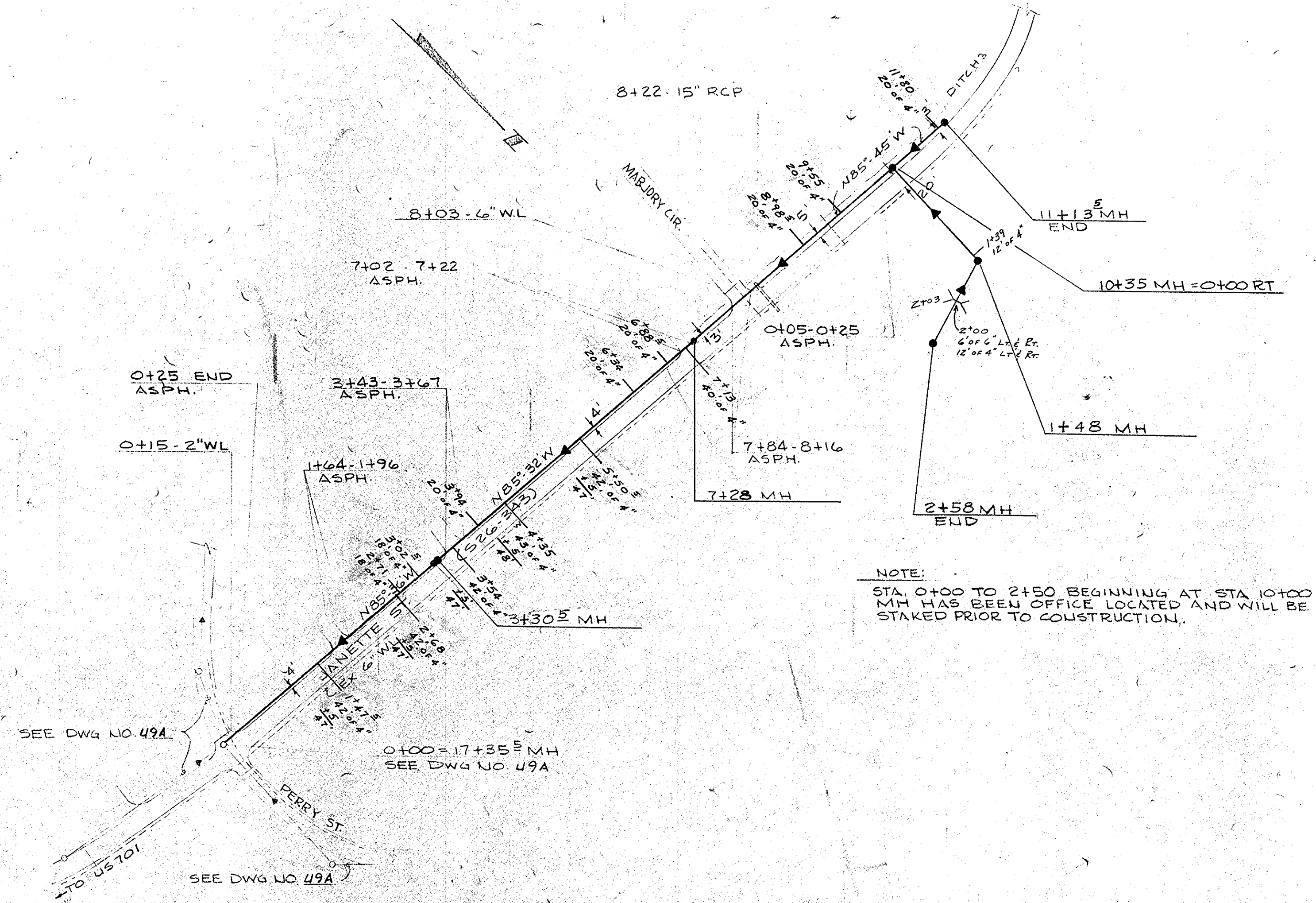


DRAWING	SEQUENCE
NO.  OF	NO.  OF

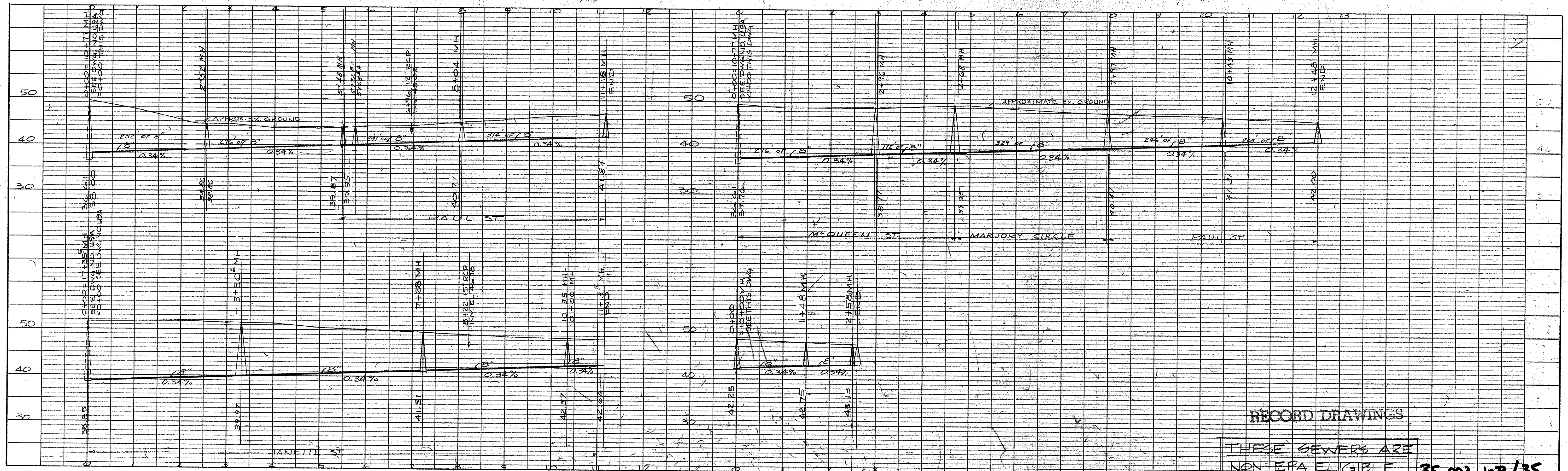
NOTE:
STA 5+38.5 TO 11+16 HAS BEEN OFFICE
LOCATED AND WILL BE FIELD STAKED
PRIOR TO CONSTRUCTION



TEMP. DRILL HOLE IN CONC. CURB E.N.W.
CORNER INTERSECTION OF HWY 701 &
S26°34'3" E, EL 52.01



NOTE:
STA. 0+00 TO 2+50 BEGINNING AT STA 10+00
MH HAS BEEN OFFICE LOCATED AND WILL BE
STAKED PRIOR TO CONSTRUCTION.



RECORD DRAWINGS

THESE SEWERS ARE
NON-EPA ELIGIBLE 35-002-108/35

PLAN	PROFILE	SURVEYED	BY	DATE
NOTE BOOK C-4172	NOTE BOOK C-4172	ALIGNMENT PLOTTED	DAW	3/80
NO. 10	NO. 10	PROFILE PLOTTED	DAW	3/80
24.44.40	24.44.40	GRADES CHECKED	EMW	3/80

NO.	DATE	BY	REVISION

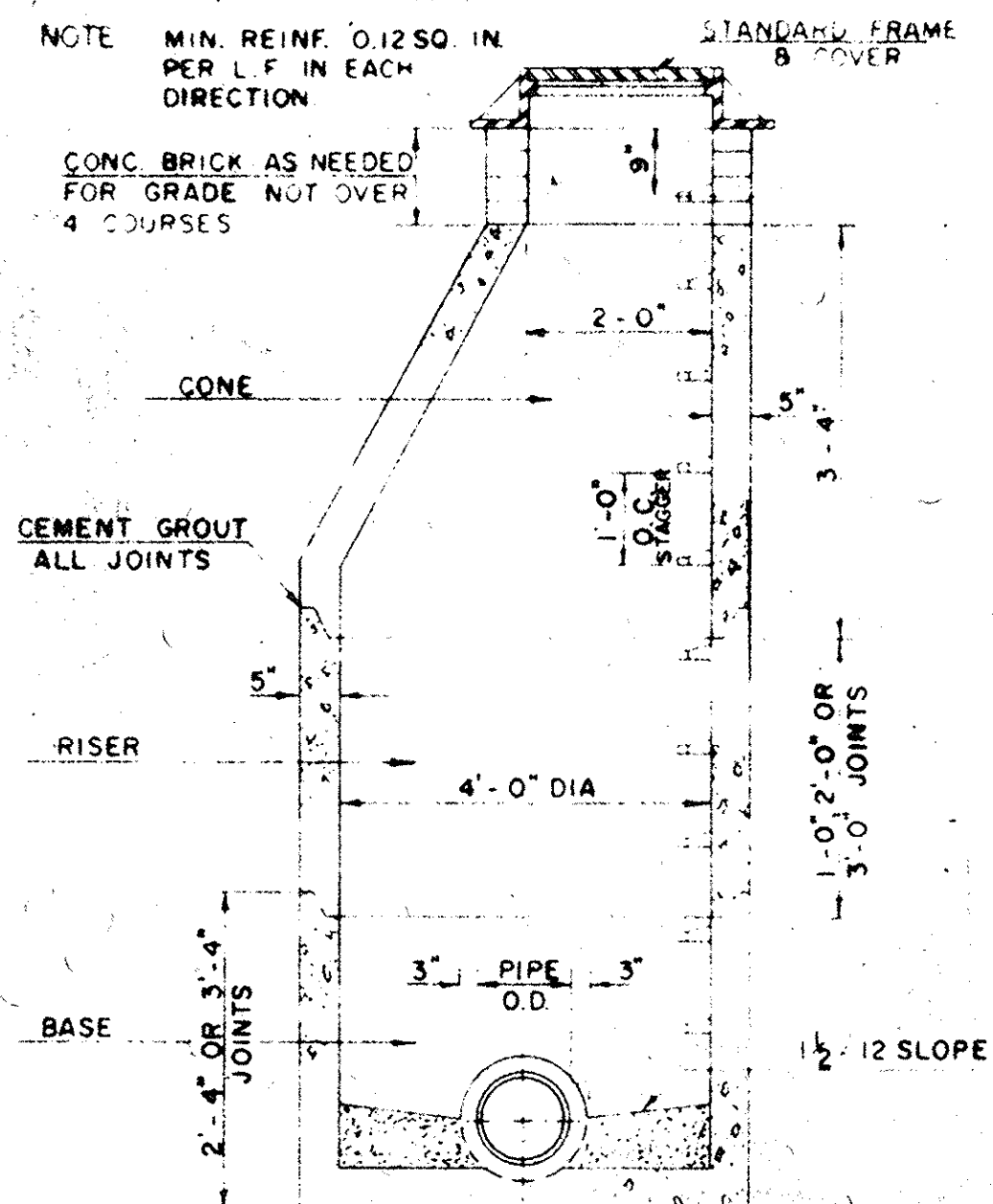
HARWOOD-BEEBE COMPANY
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SCALE: 1"=100' HORIZ.
DATE: SEPT. 1977
DRAWN BY: D.A.N.
CHECKED BY: F.M.W.
APPROVED BY: H.S.M.

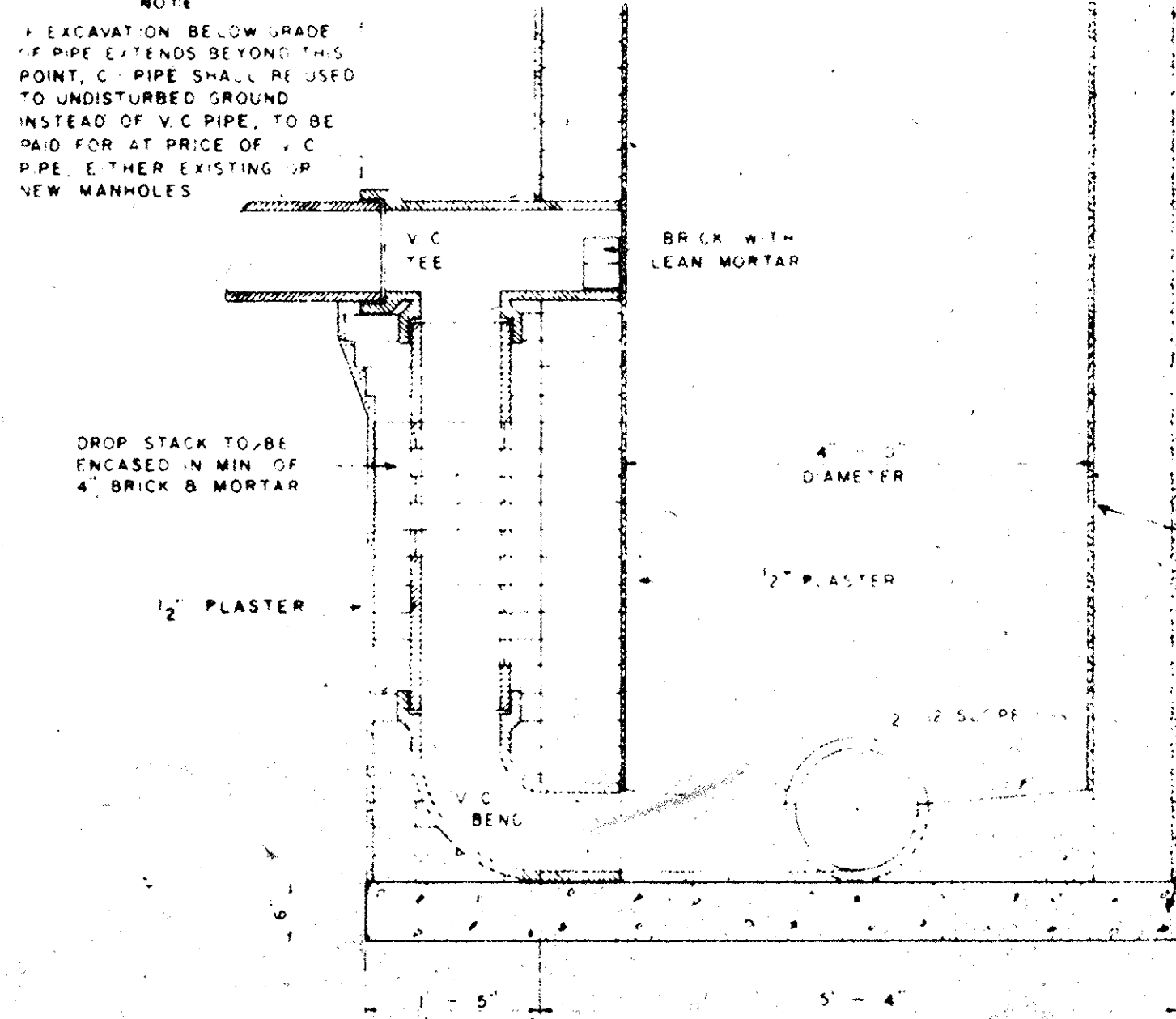
PROJECT NO.
EPAC450486.01
JOB NO.
C-374
FILE NO.

CITY OF CONWAY
WASTE FACILITIES IMPROVEMENTS
8" GRAVITY SEWER LINES

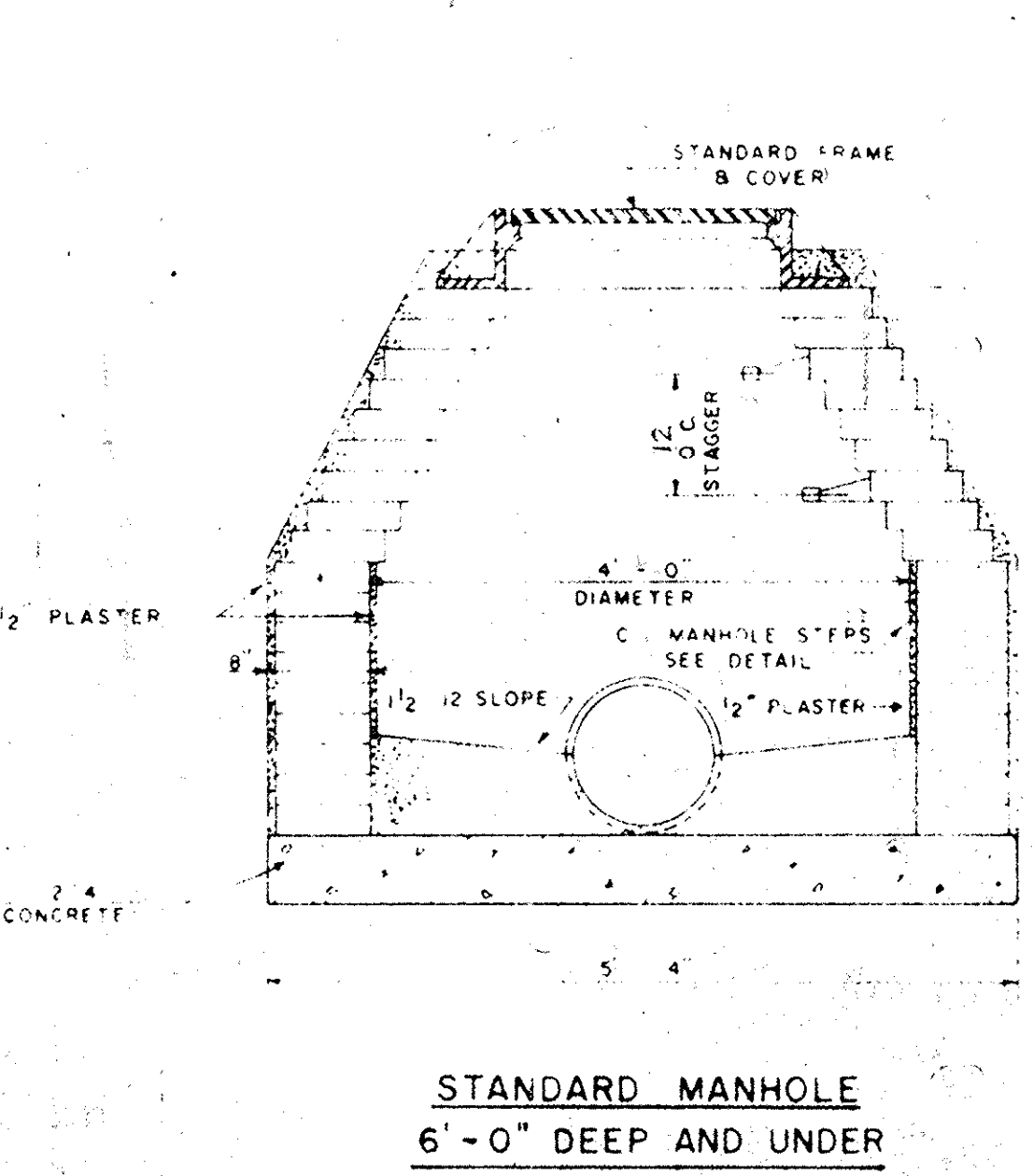
DRAWING NO. 10B OF 28
SEQUENCE NO. 10B OF 28



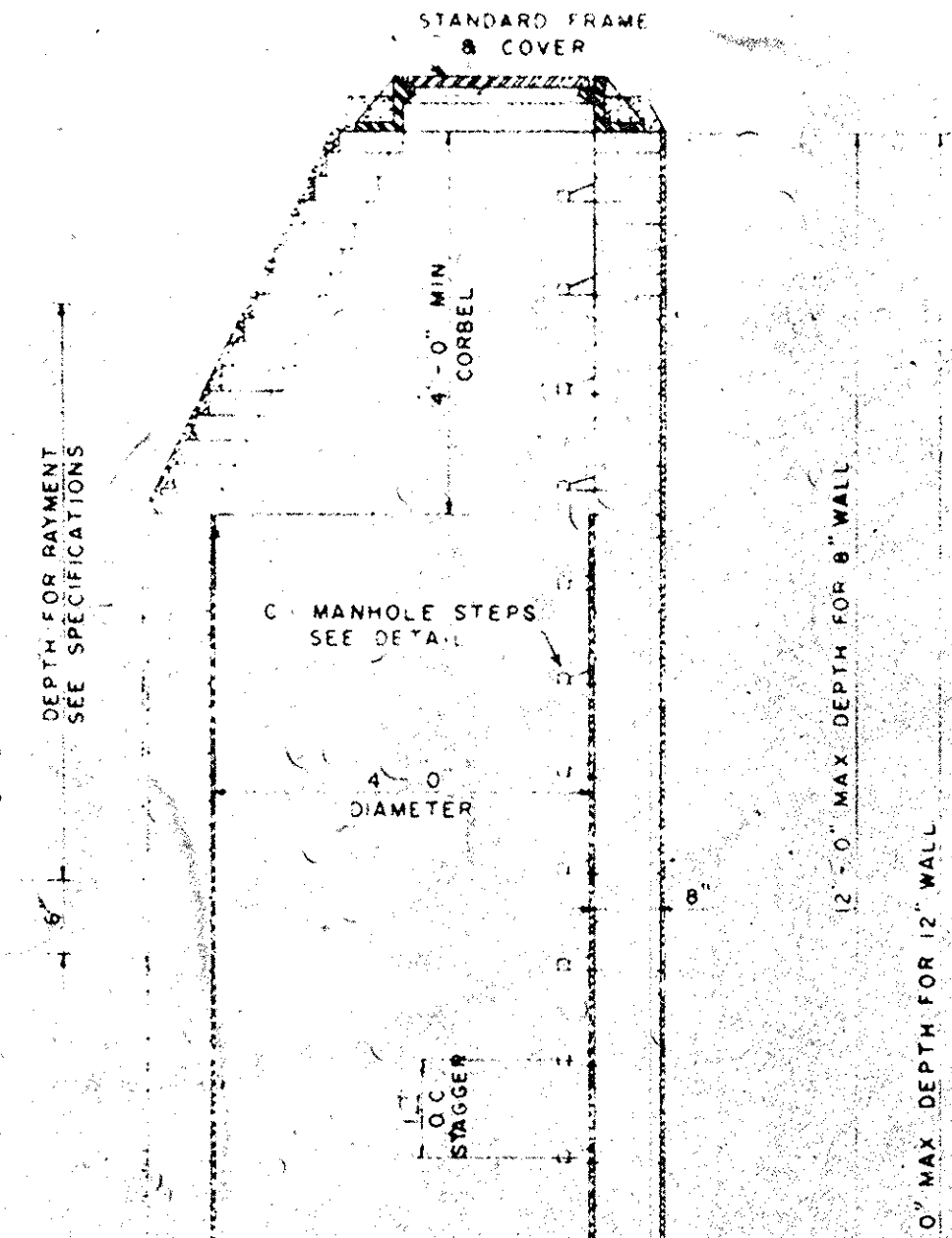
TYPICAL STANDARD PRECAST MANHOLE WITH CONCRETE BOTTOM



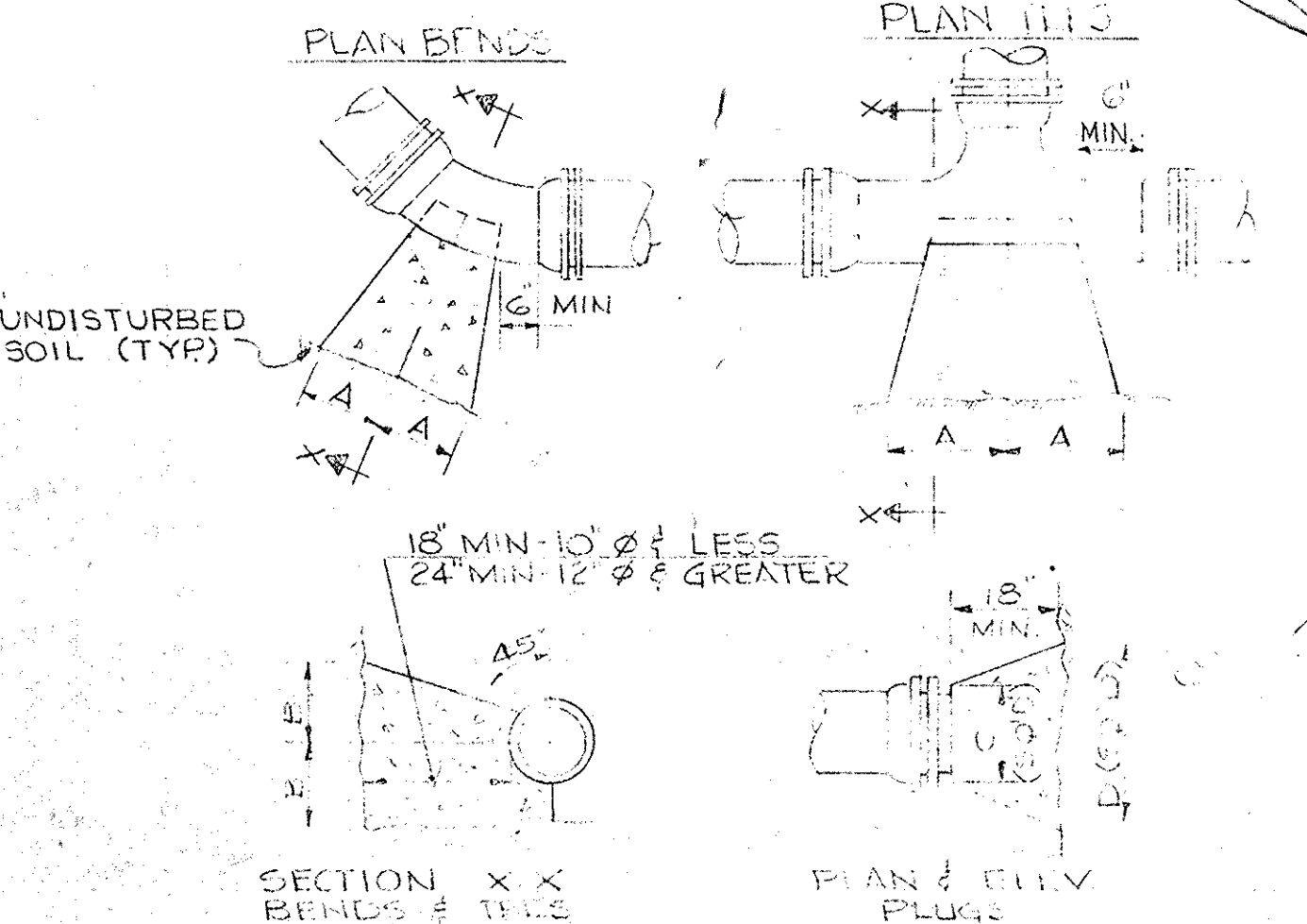
DROP MANHOLE



STANDARD MANHOLE 6'-0" DEEP AND UNDER

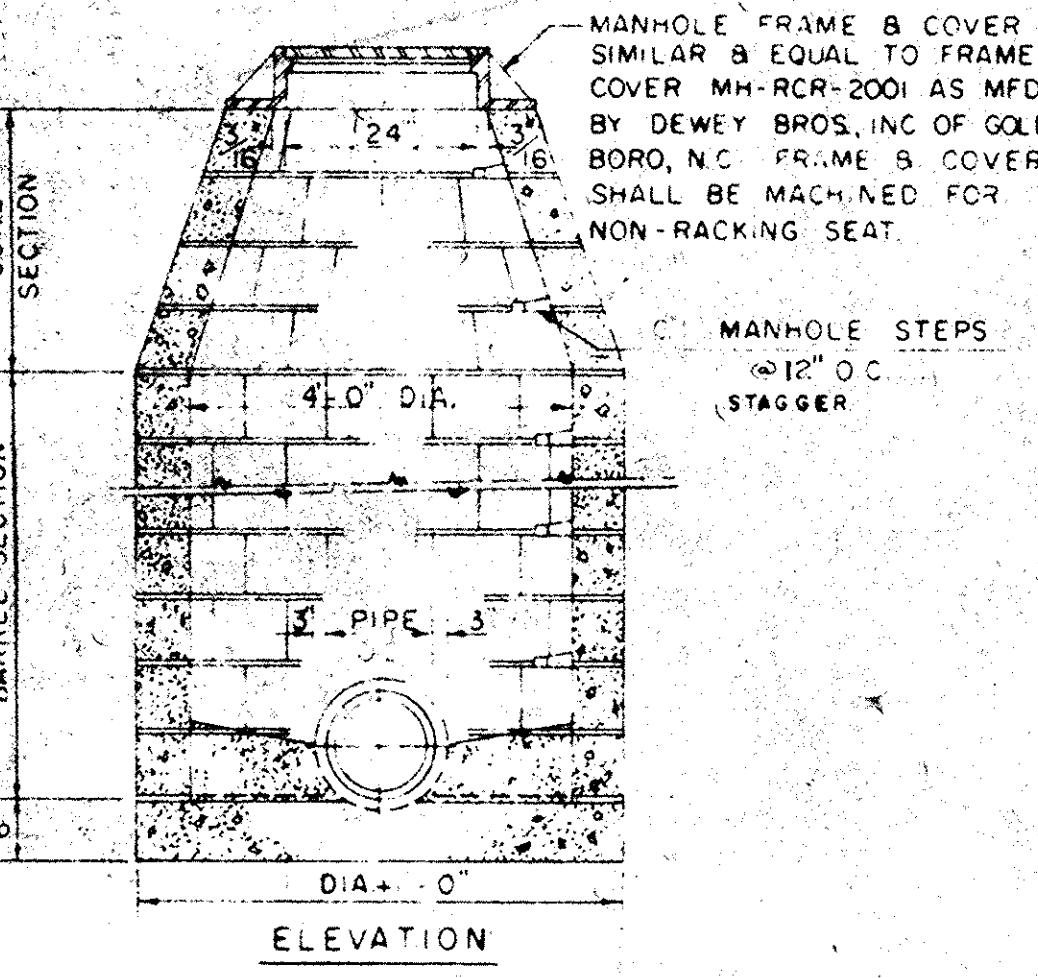


STANDARD MANHOLE 6'-0" DEEP AND OVER

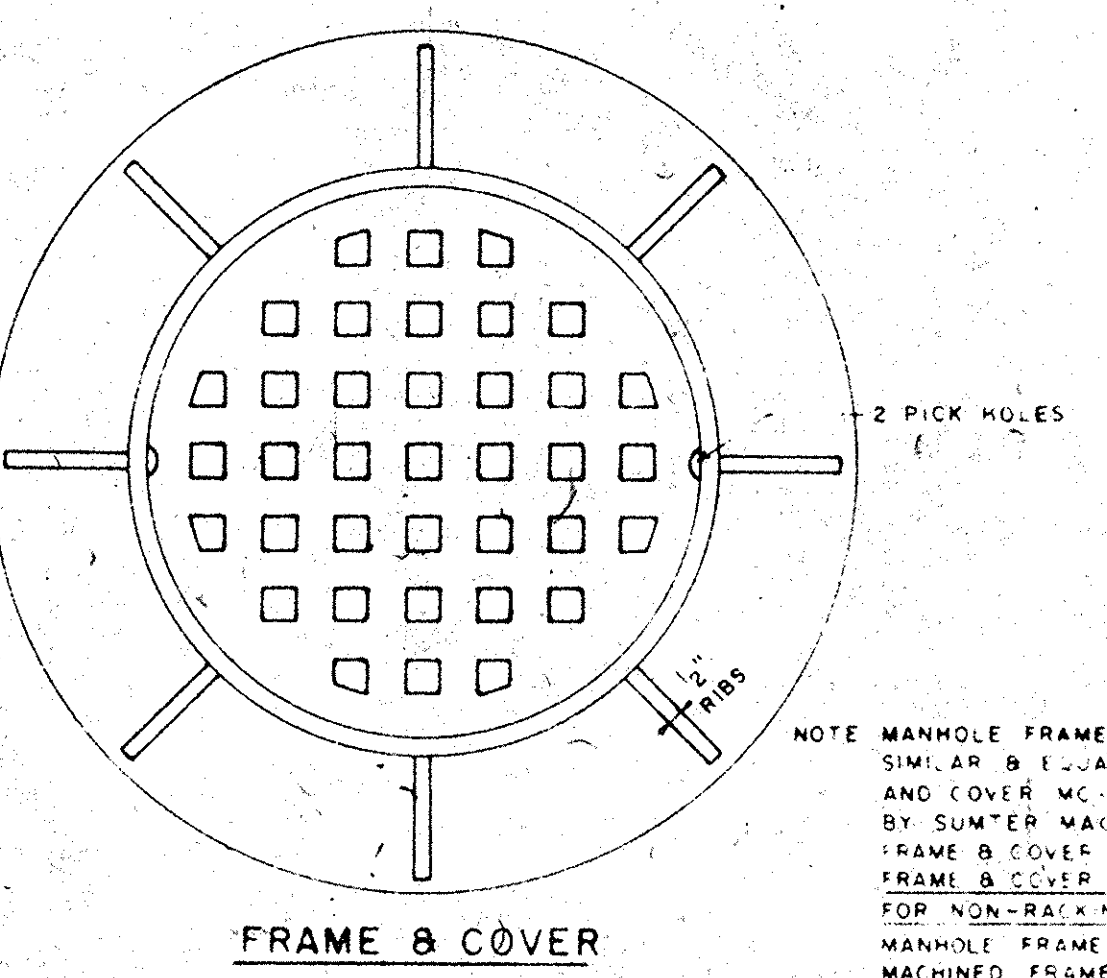


PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND	TEE	PLUG
4"	8"	12"	8"	6"	6"	10"
6"	10"	12"	8"	6"	6"	12"
8"	13"	10"	10"	8"	8"	14"
10"	16"	14"	12"	10"	10"	16"
12"	19"	16"	14"	12"	12"	18"

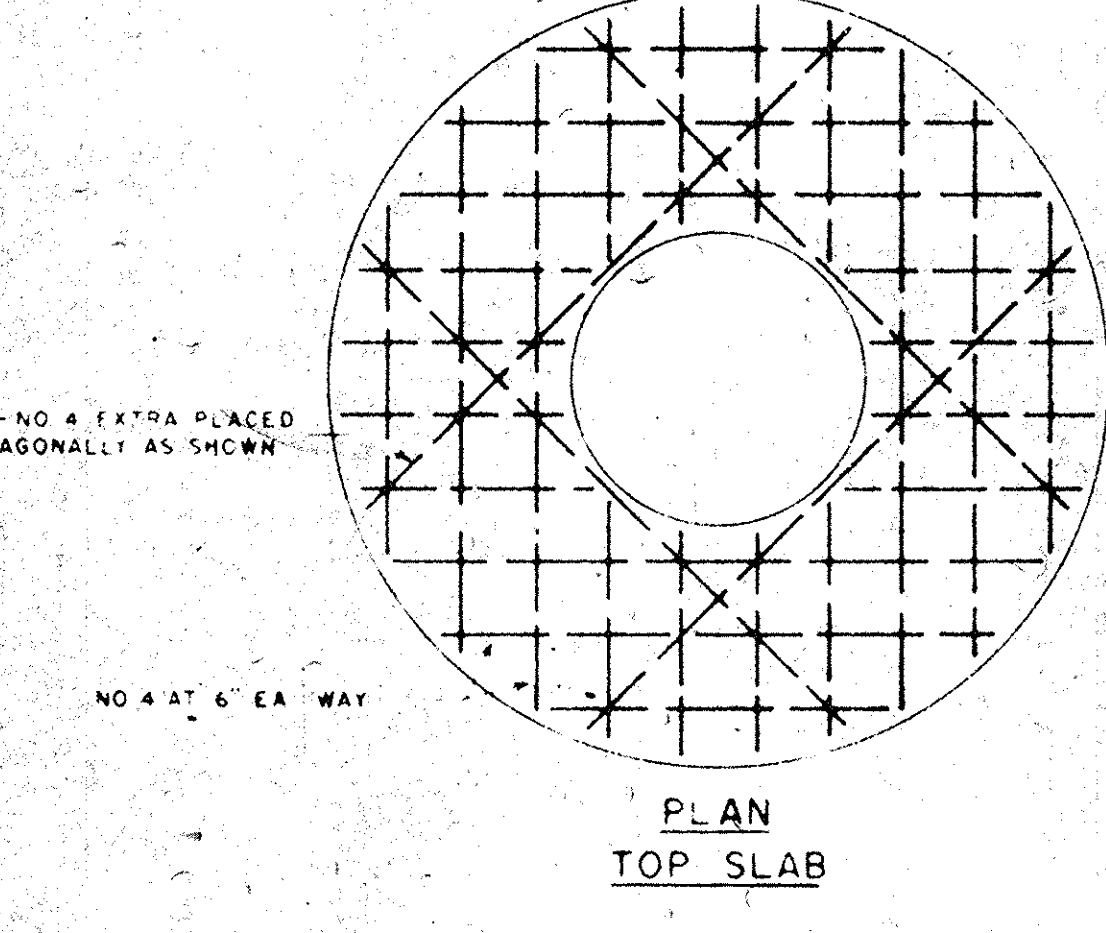
THRUST BLOCK DETAILS



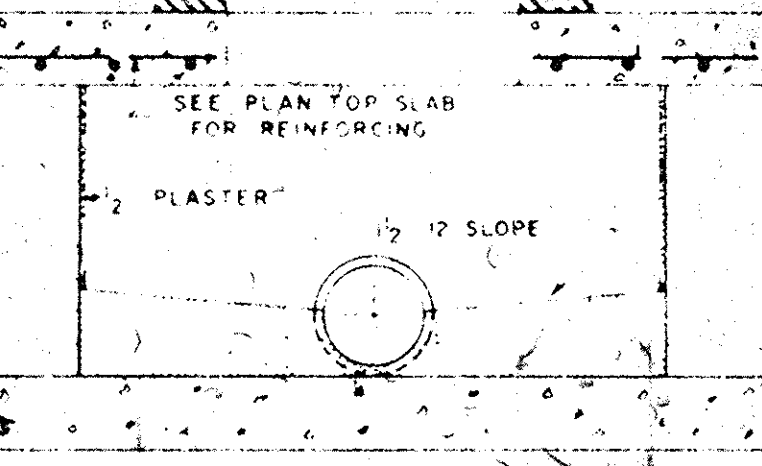
TYPICAL STANDARD BLOCK MANHOLE



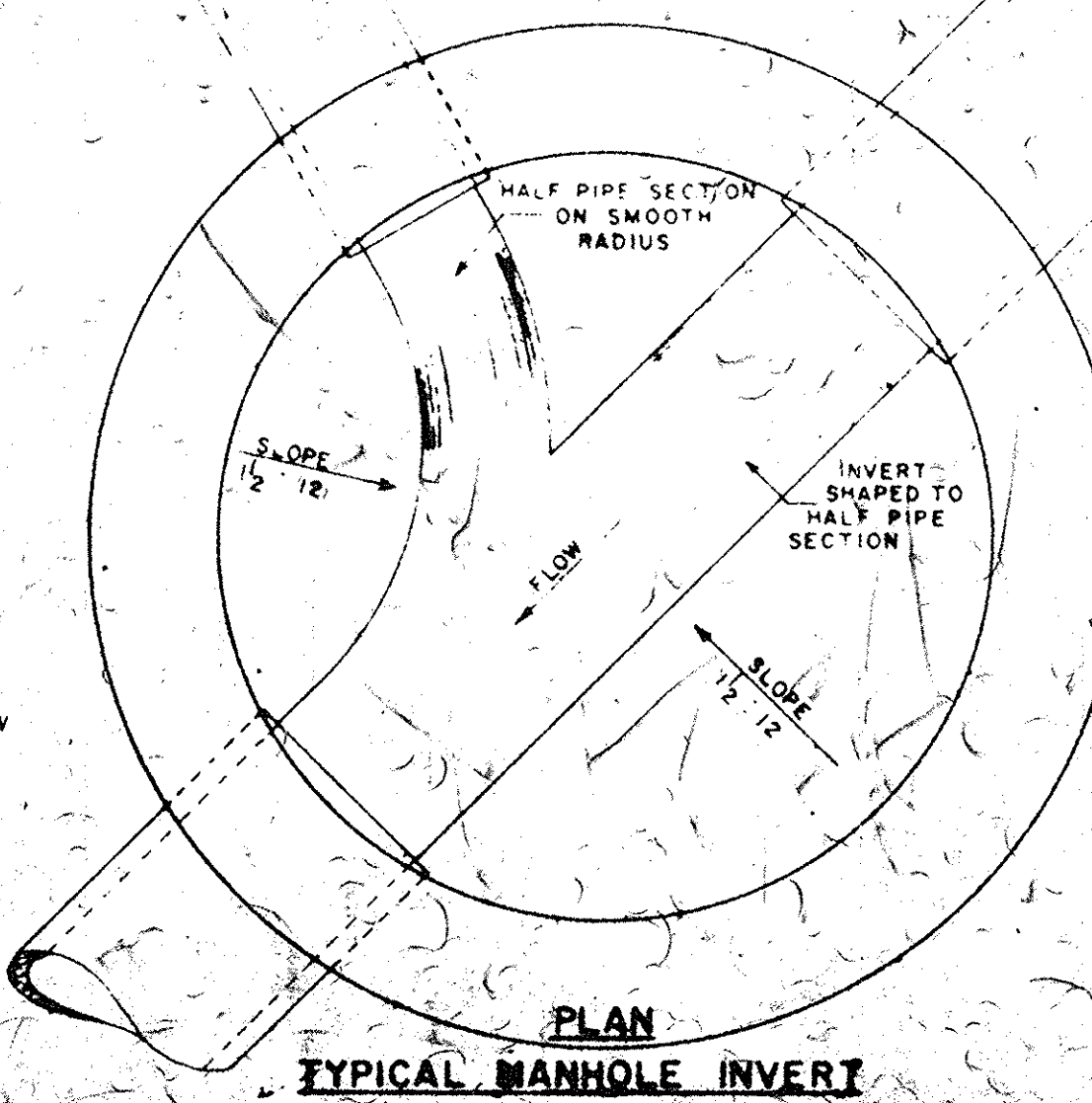
FRAME & COVER



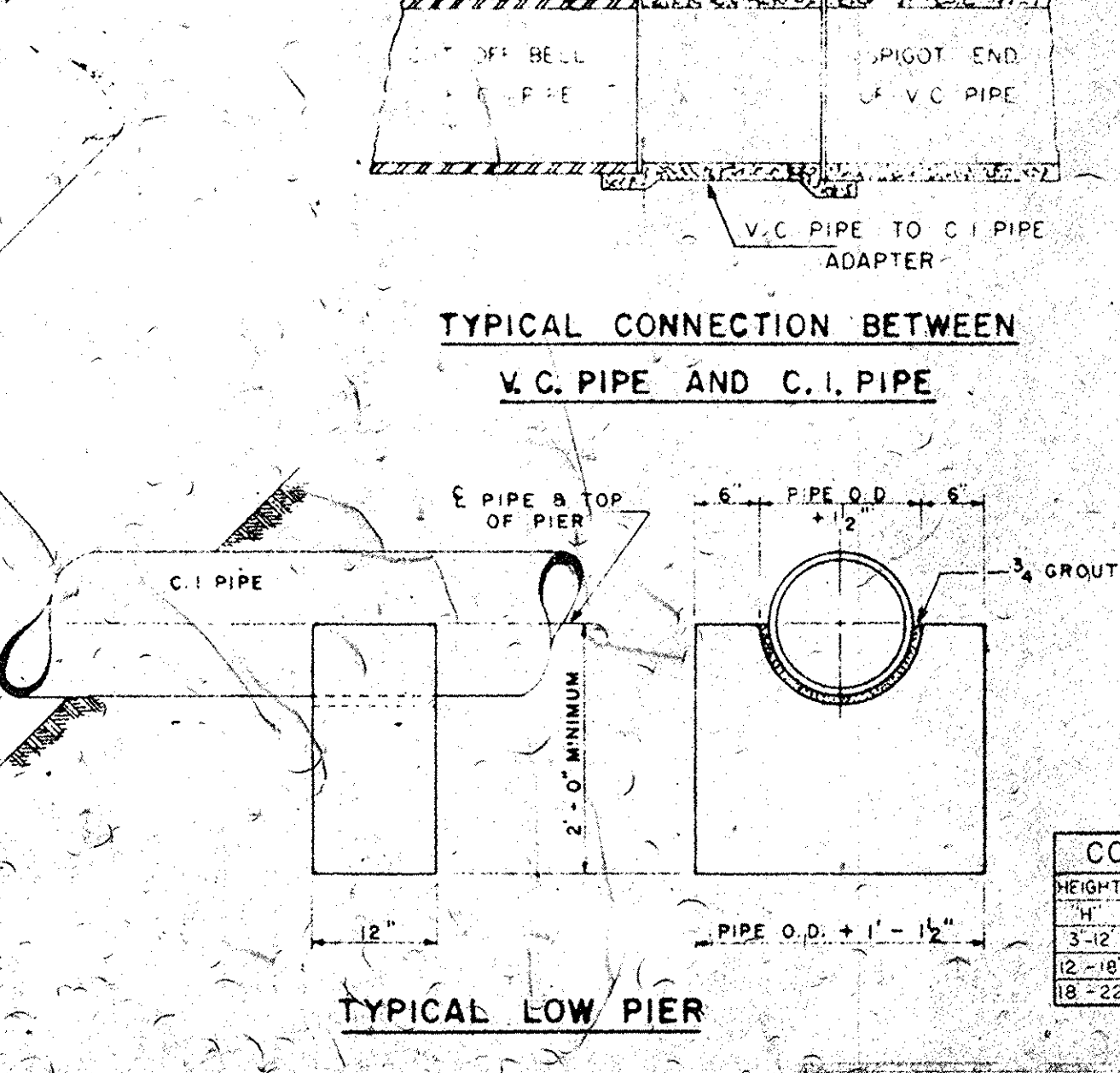
PLAN TOP SLAB



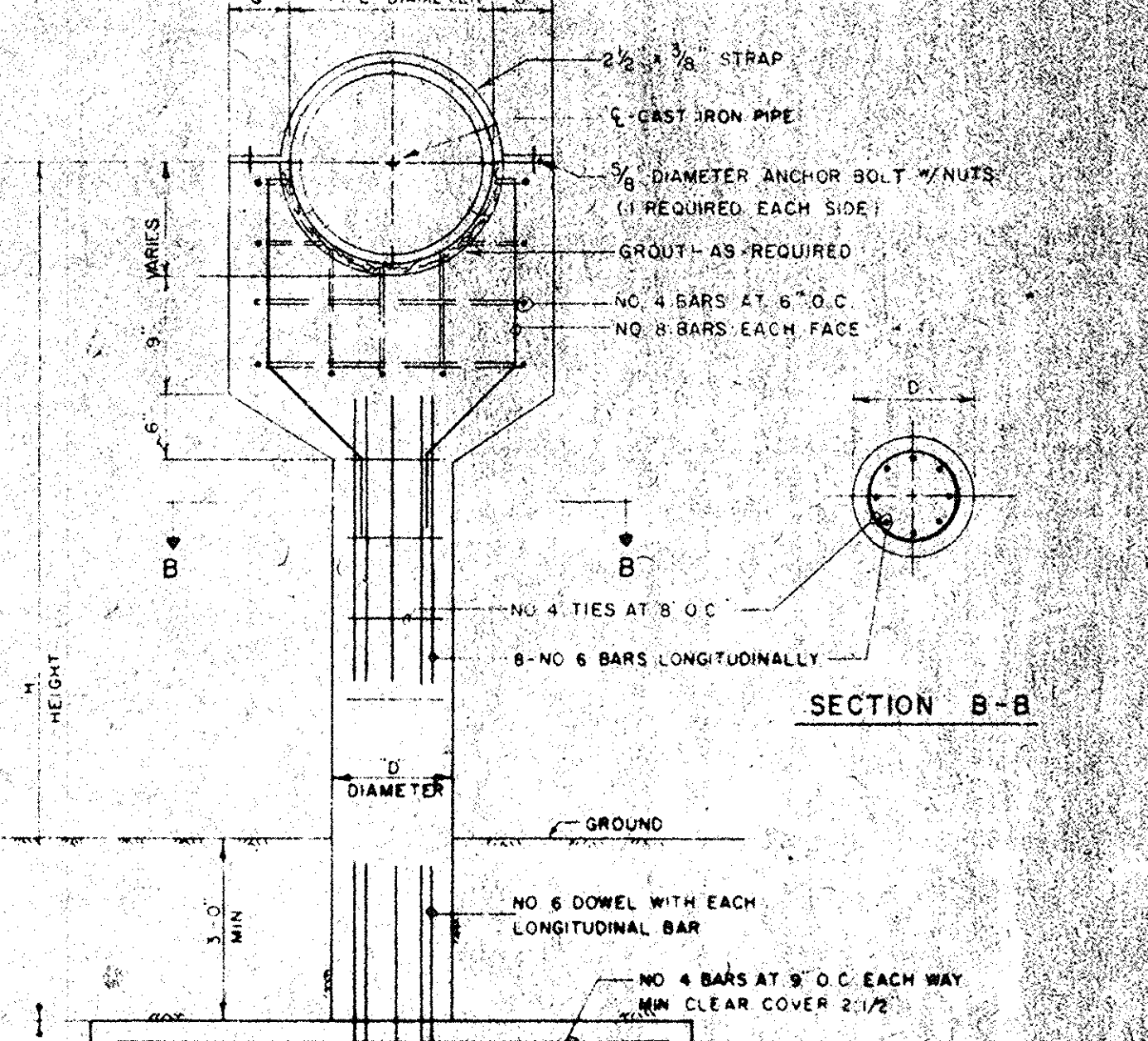
SECTION SHALLOW MANHOLE



TYPICAL MANHOLE INVERT



TYPICAL CONNECTION BETWEEN V.C. PIPE AND C.I. PIPE

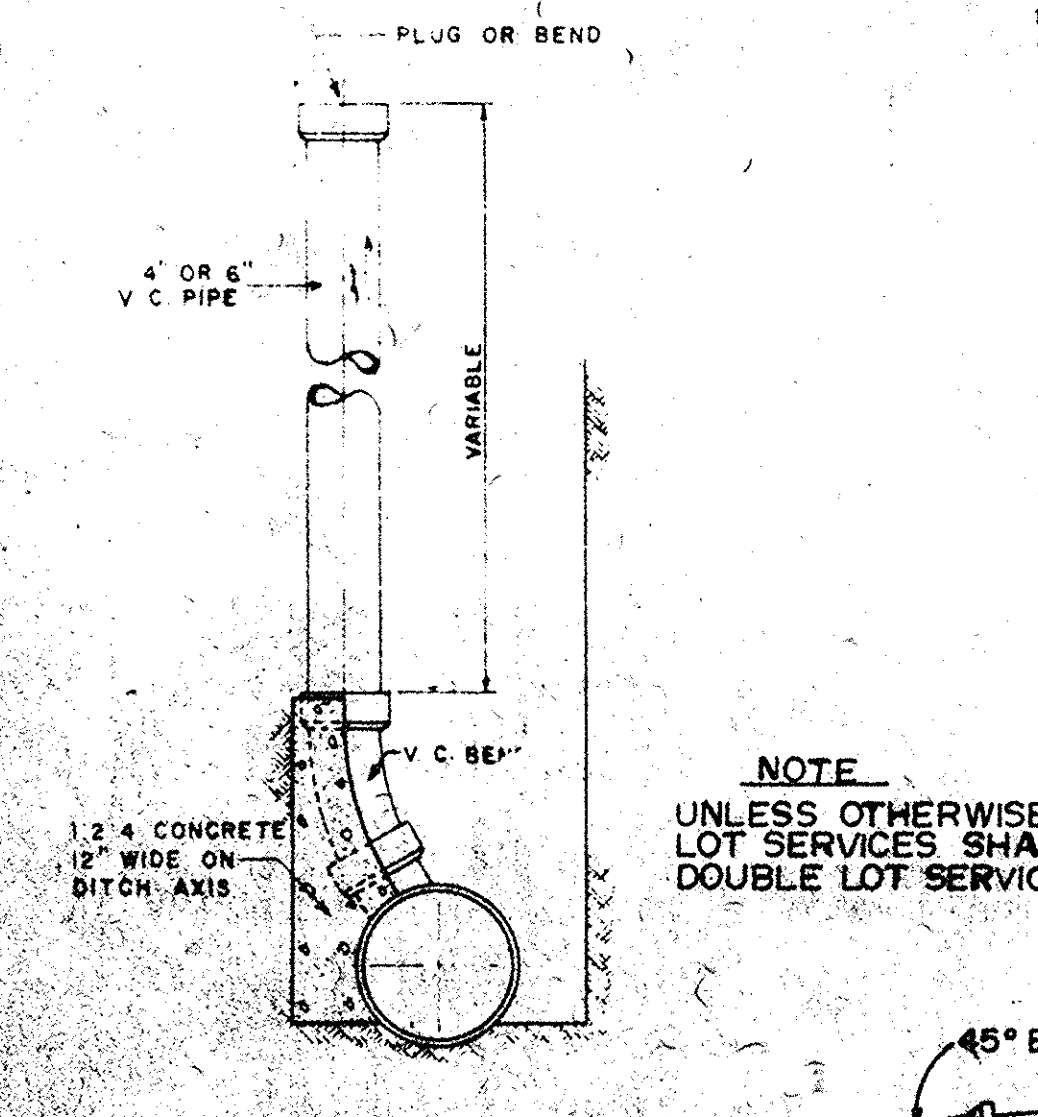


SECTION A-A

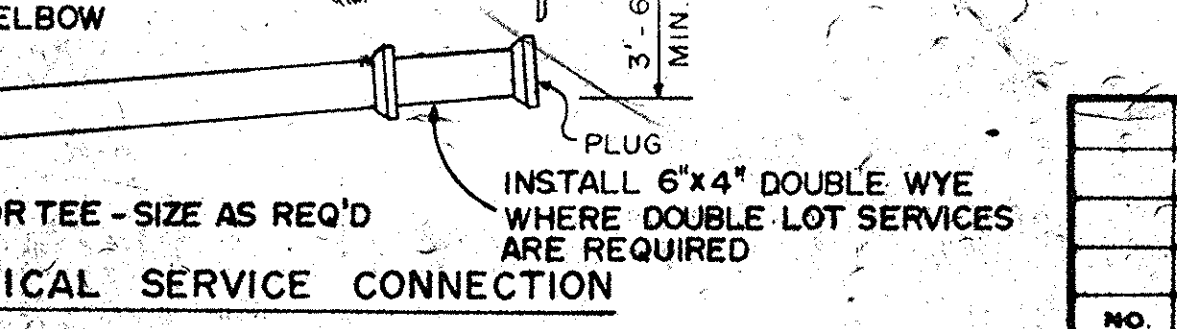
STANDARD PIER DETAILS

STANDARD PIER DIMENSIONS CHART

COLUMNS	PIPER SIZE	COLUMNS	PIPER SIZE
HEIGHT DIAMETER	FOOTING	HEIGHT DIAMETER	FOOTING
14" 12"	12"	14" 12"	12"
18" 16"	16"	18" 16"	16"
22" 20"	20"	22" 20"	20"



TYPICAL RISER SUPPORT



TYPICAL SERVICE CONNECTION

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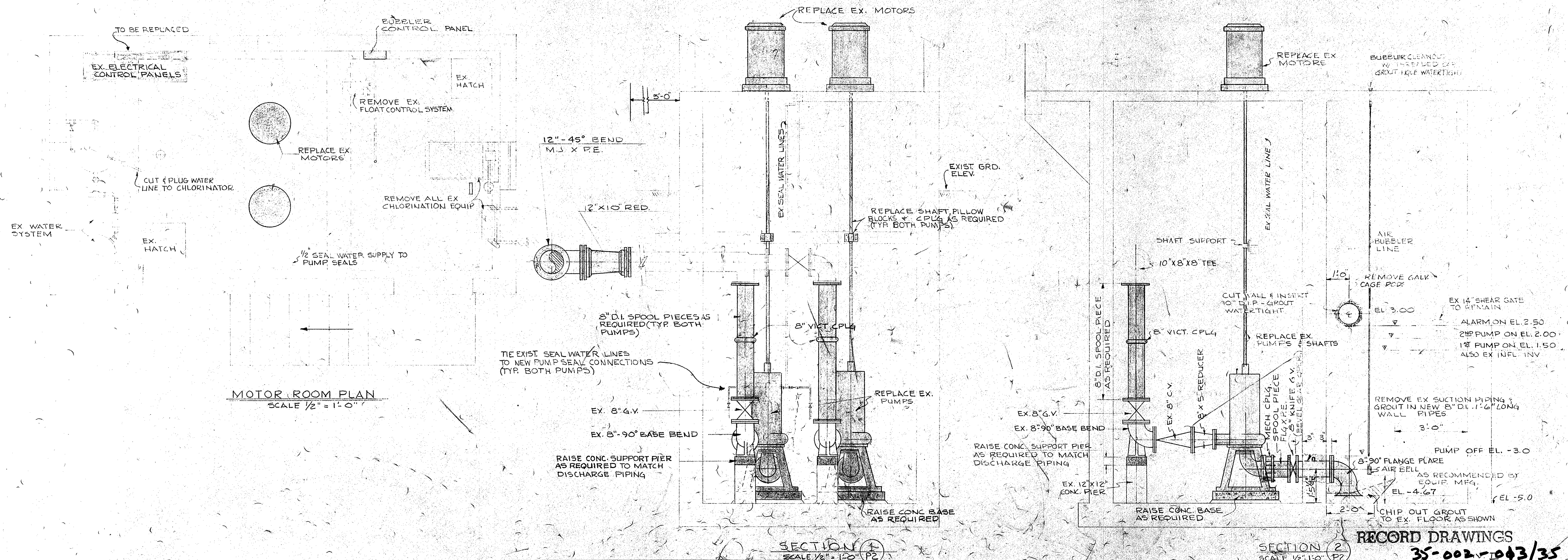
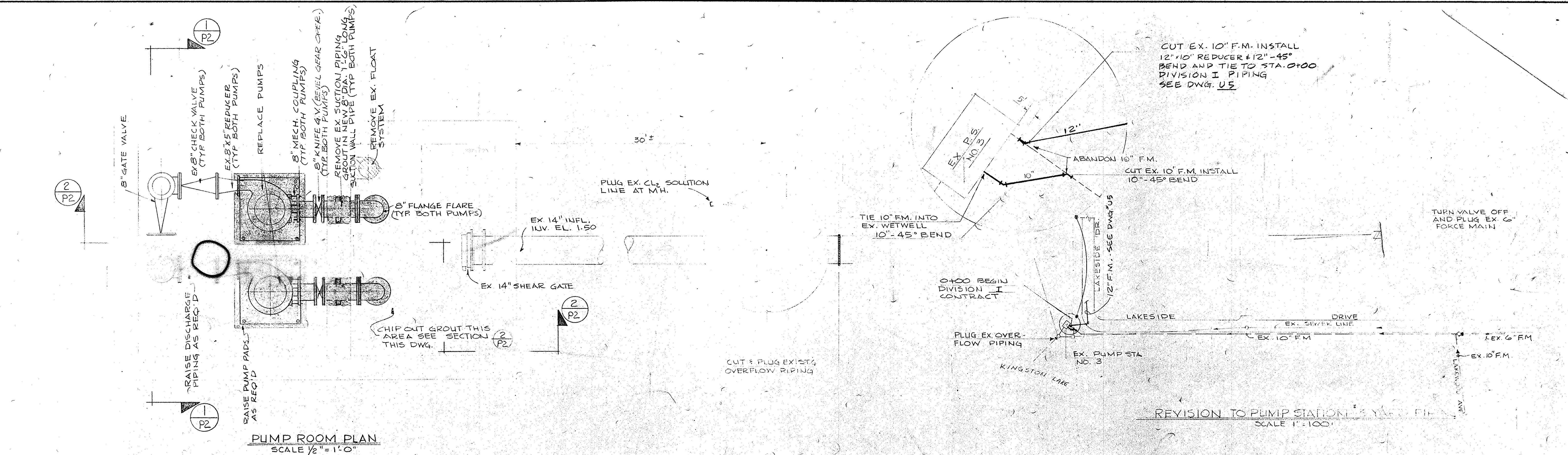
DATE: AS SHOWN
DATE: SEPT. 1977
PROJECT NO.: C-374
CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS

PROJECT NO.: C-374
CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS

PROJECT NO.: C-374
CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS

PROJECT NO.: C-374
CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS

35-002-011/35



NO.	DATE	BY	REVISION

HARWOOD BEEBE ENGINEER
PLANNER
CONSULTANT

SPARTANBURG, S. C. □ FLORENCE, S. C. □ COLUMBIA, S. C.

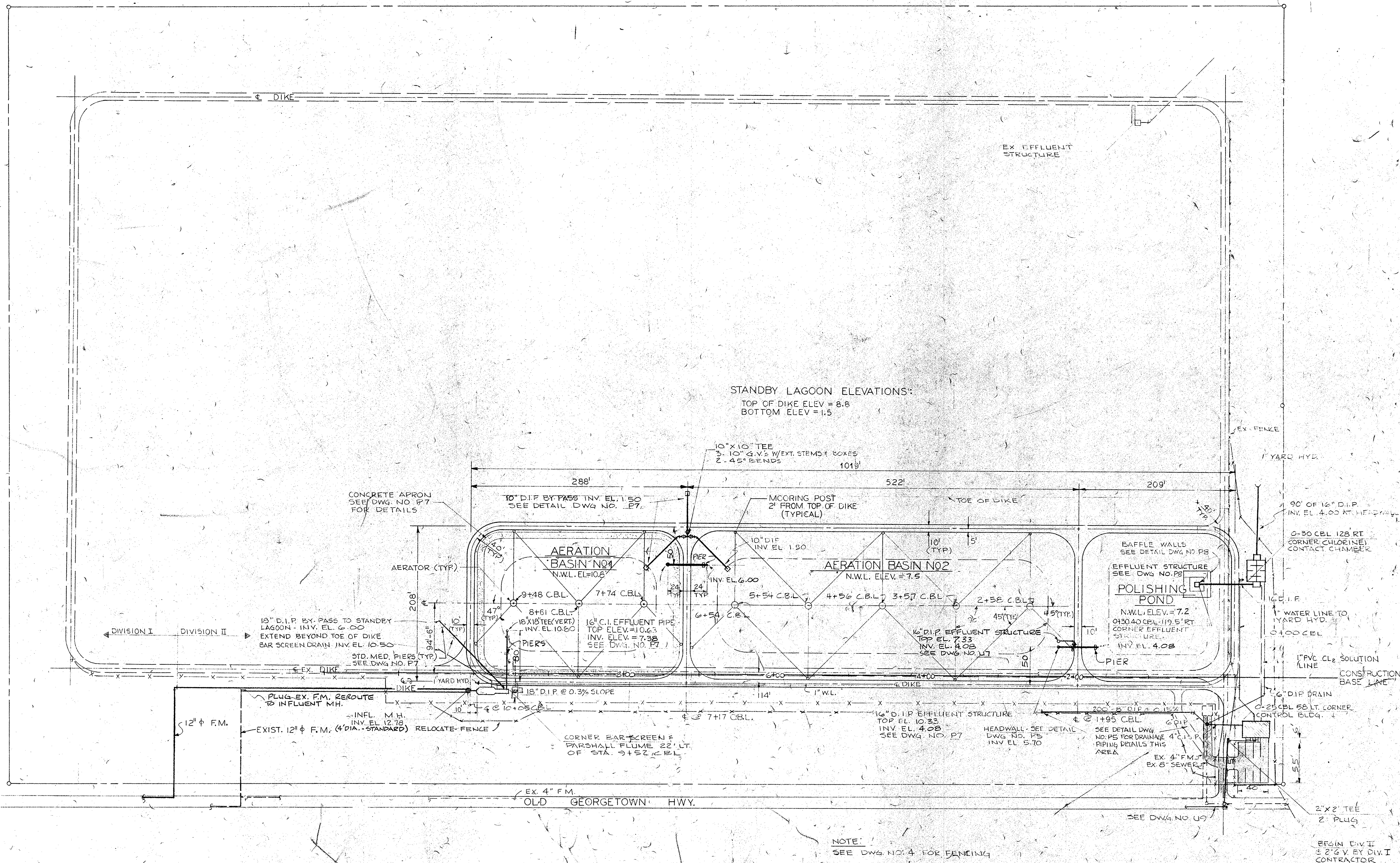
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SCALE: $1/2" = 1'-0"$
DATE: SEPT., 1977
DRAWN BY: D.A.N.
CHECKED BY: J.O.T.
APPROVED BY: H.S.M.

PROJECT NO.	16
JOB NO.	C-374
FILE NO.	

CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS
PUMP STATION NO. 3
RENOVATIONS

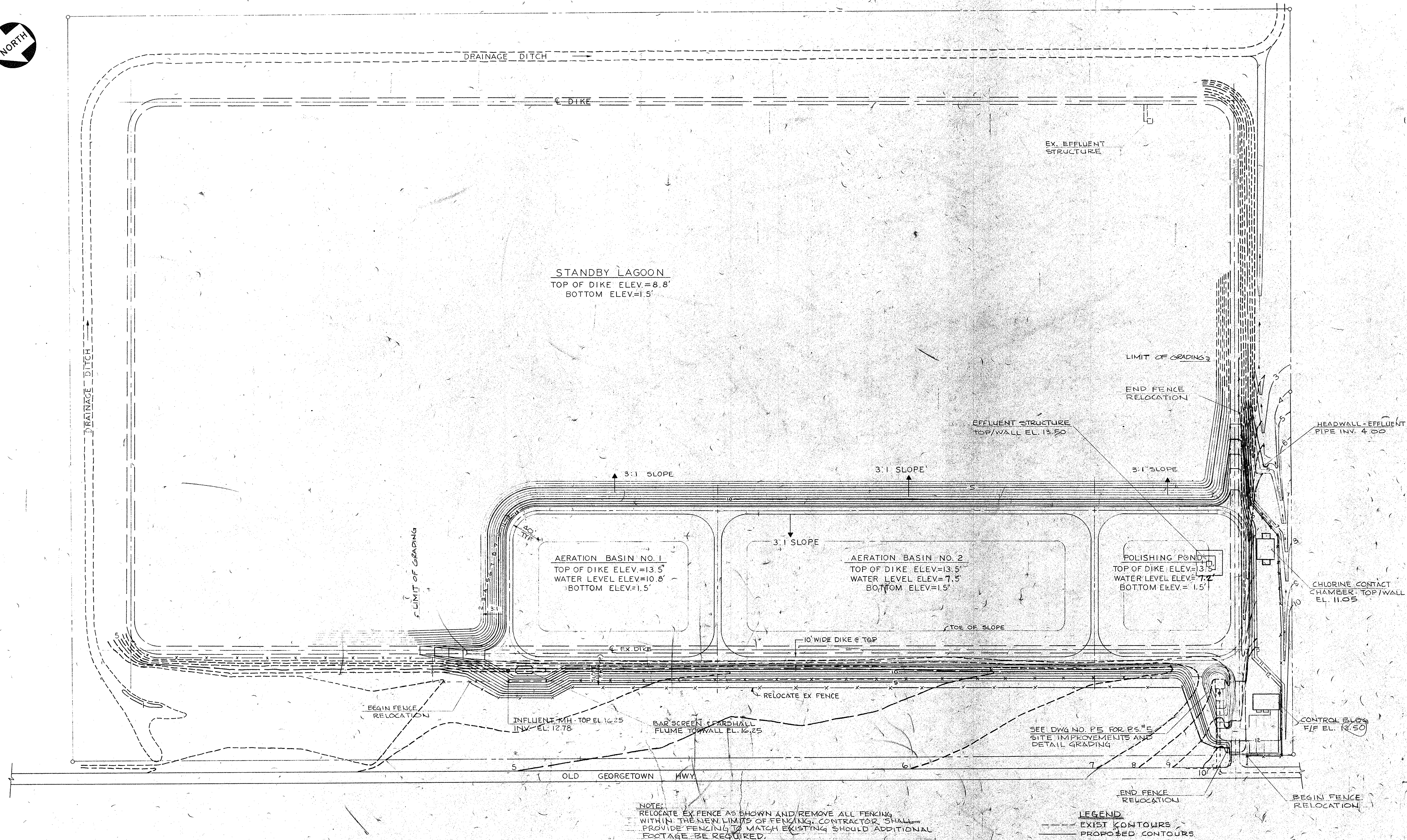
DRAWING	SEQUENCE
NO.	NO.
P2	13
OF 13	OF 28



NOTE:
SEE DWG. NO. 4 FOR FENCING

35-002-1014/35

22-11-03



RECORD DRAWINGS

35-002-015/35

NO.	DATE	BY	REVISION

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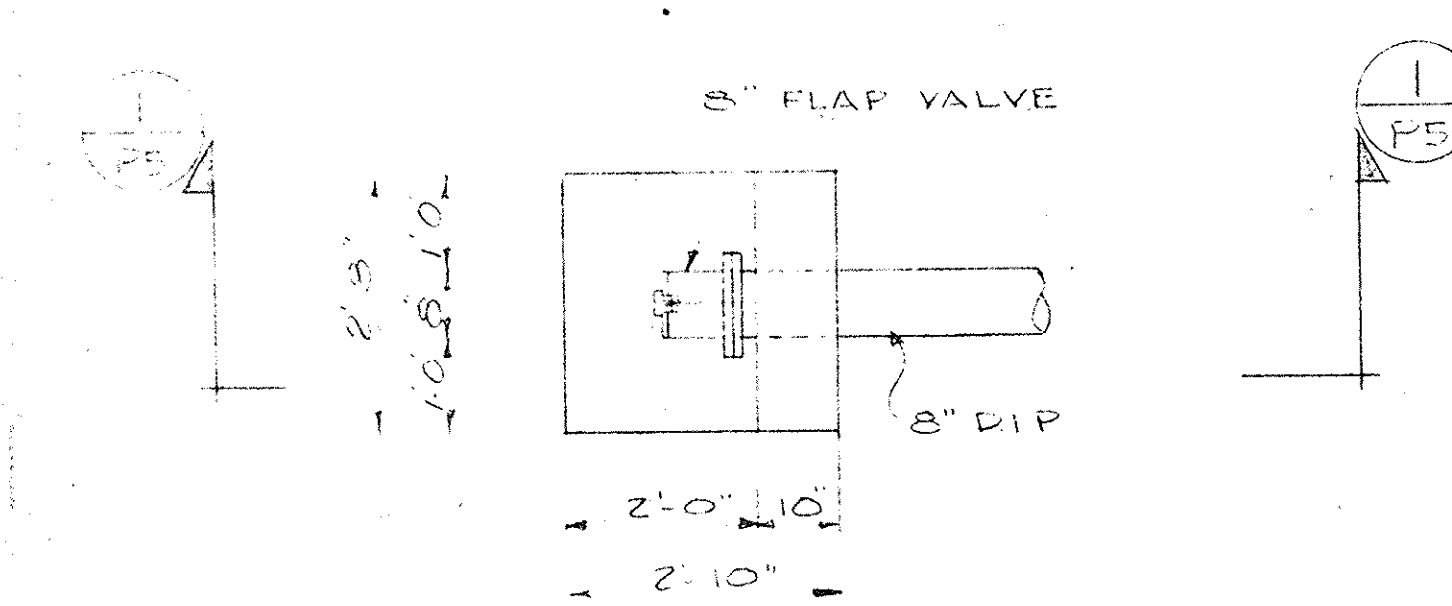
SCALE: 1"=60'
DATE: SEPT. 1977
DRAWN BY: DAN
CHECKED BY: J.O.T.
APPROVED BY: H.S.M.

PROJECT NO.:
EPA C450486-01
JOB NO.:
C-374
FILE NO.

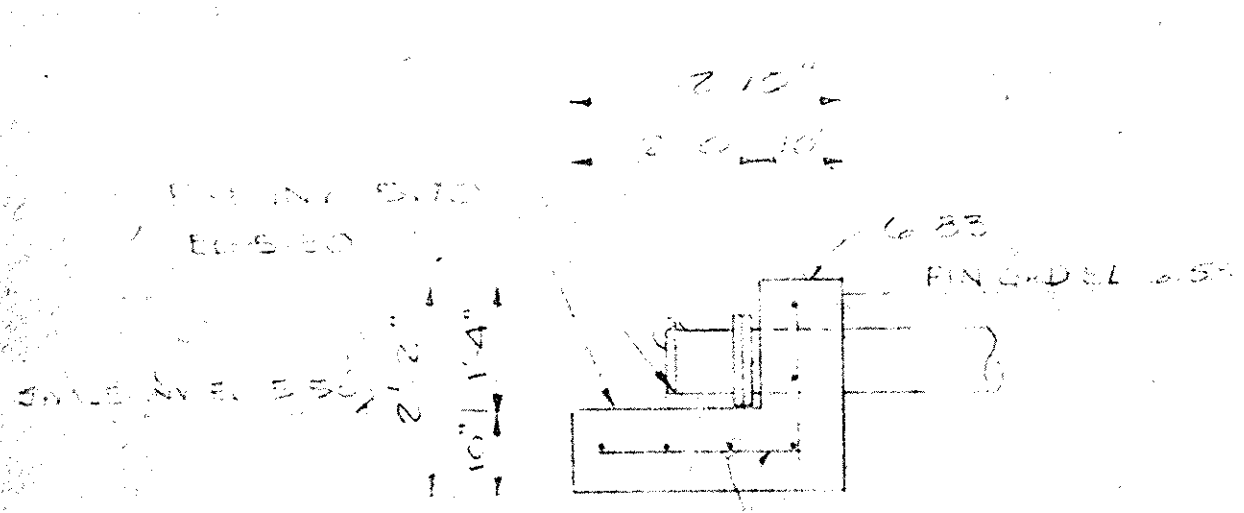
CITY OF CONWAY
WASTE FACILITIES IMPROVEMENTS
GRADING PLAN

DRAWING NO.	SEQUENCE NO.
P4	15
OF 13	OF 28

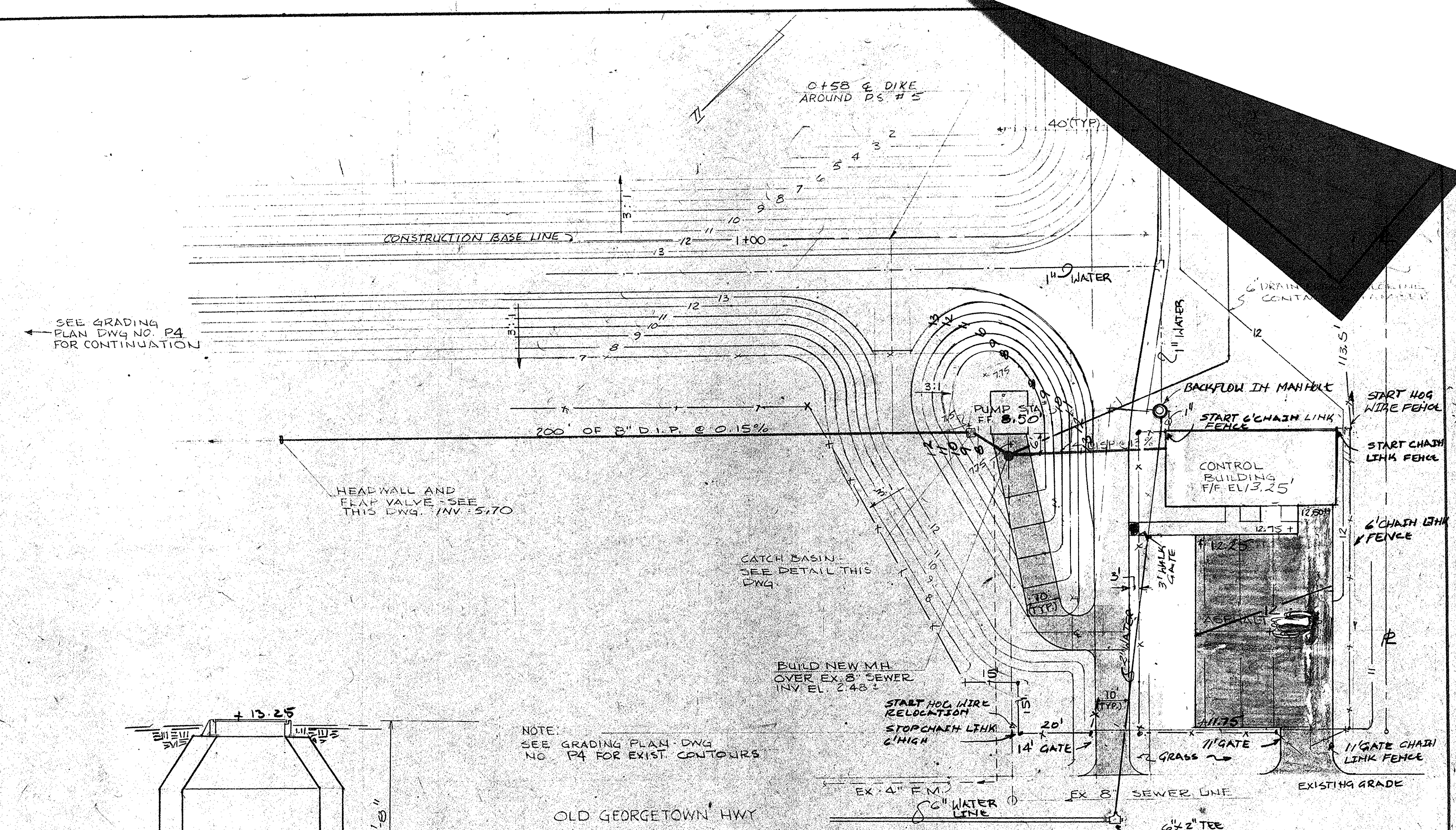
22-11-03



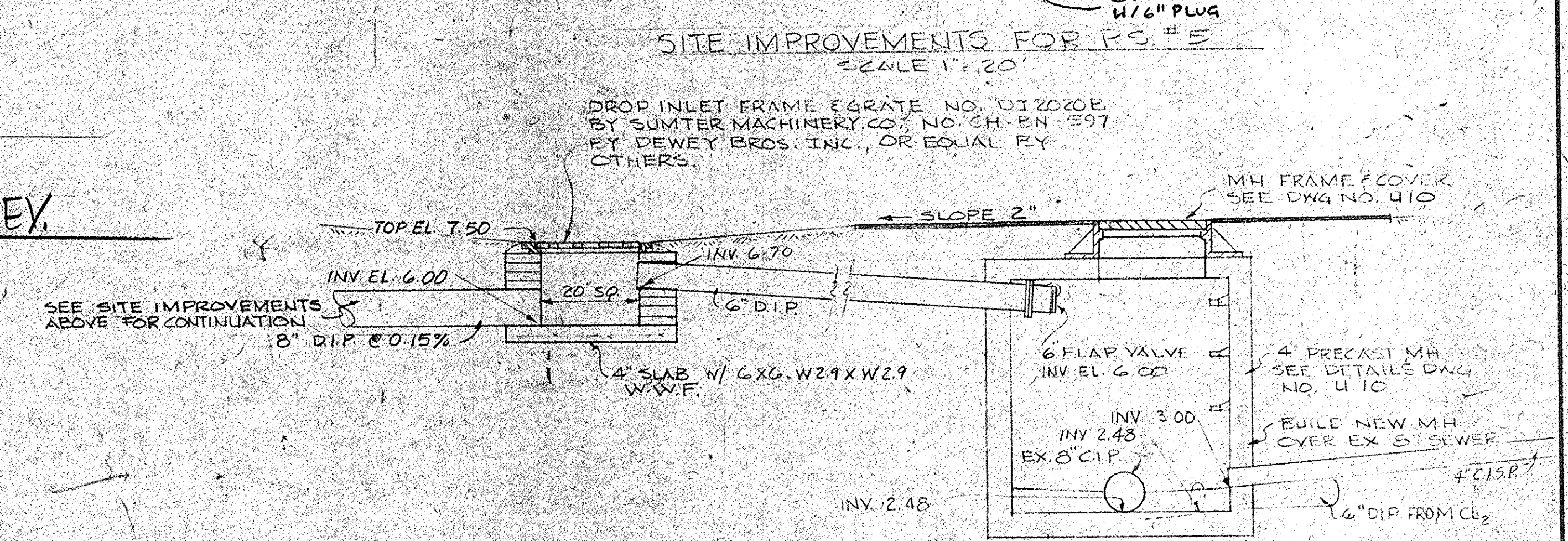
HEADWALL DETAIL
SCALE 1/2" = 1'-0"



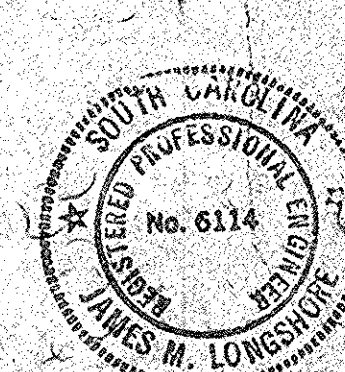
SECTION 1
SCALE 1/2" = 1'-0"



MANHOLE FOR BACKFLOW PREV.
SCALE 1/2" = 1'-0"



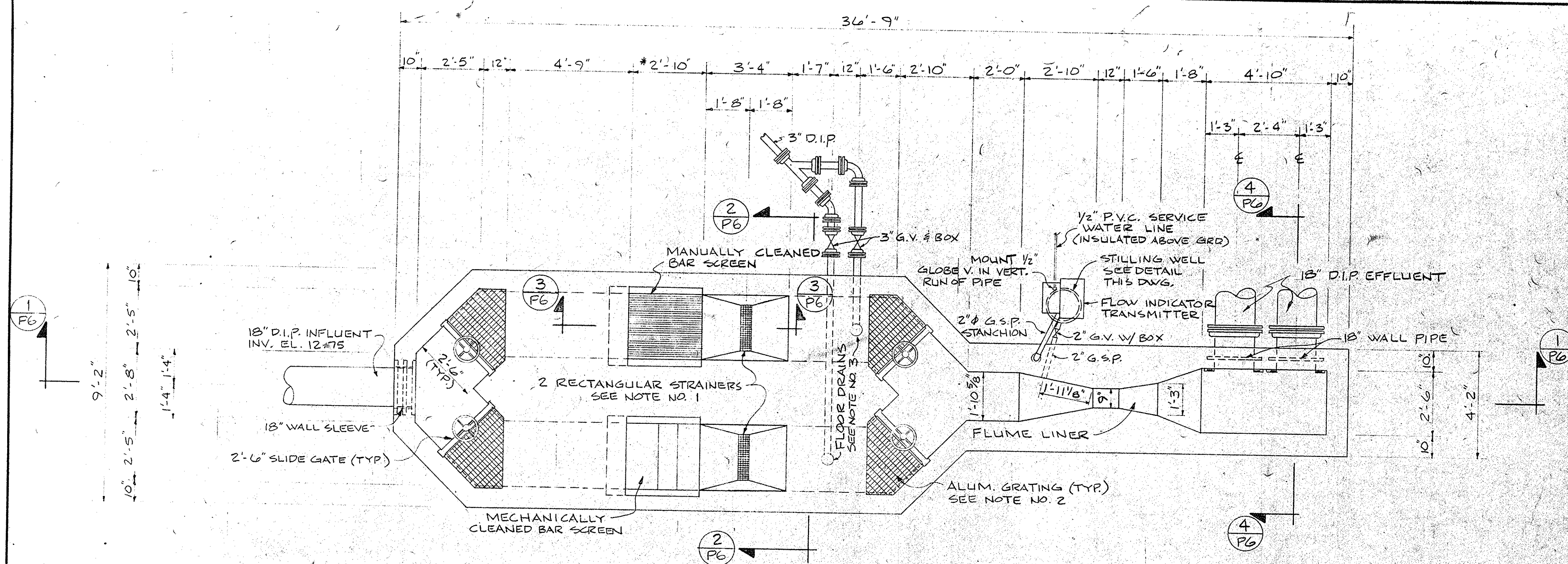
PUMP STATION #5 - DRAINAGE SYSTEM PIPING
SCALE 1/2" = 1'-0"



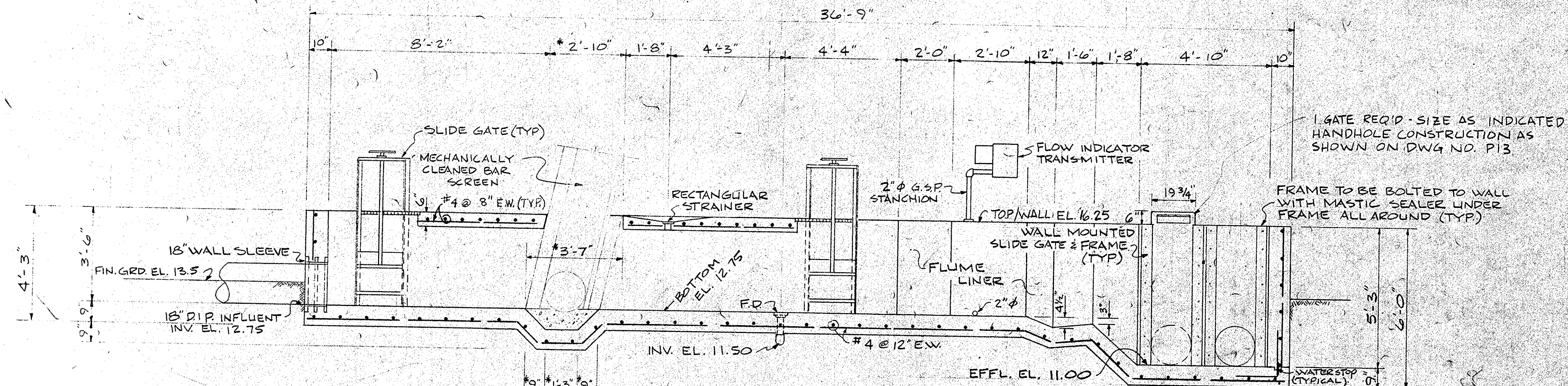
REVISED 8-25-81 SLOPED AREA AROUND PUMP #5 FENCE LOCATE, RELOCATED LAAGOON ROAD
REVISED 8-13-81 PARKING LOT EXT. ADDED MANHOLE CHAIN LINK FENCE & GATE OPENING

HARWOOD BEEBE ENGINEERS & ARCHITECTS SPARTANBURG, S.C. FLORENCE, S.C. COLUMBIA, S.C.				PROJECT NO. EPA C450486-01 SCALE AS SHOWN DATE SEPT. 1977 DRAWN BY D.A.N. CHECKED BY J.O.T. APPROVED BY H.S.M.		CITY OF CONWAY WASTE FACILITIES IMPROVEMENTS PUMP STATION NO. 5 - SITE IMPROVEMENTS & DETAILS		DRAWING NO. P5 OF 13	SEQUENCE NO. 16 OF 28
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RECORD DRAWINGS
35-002-162/35



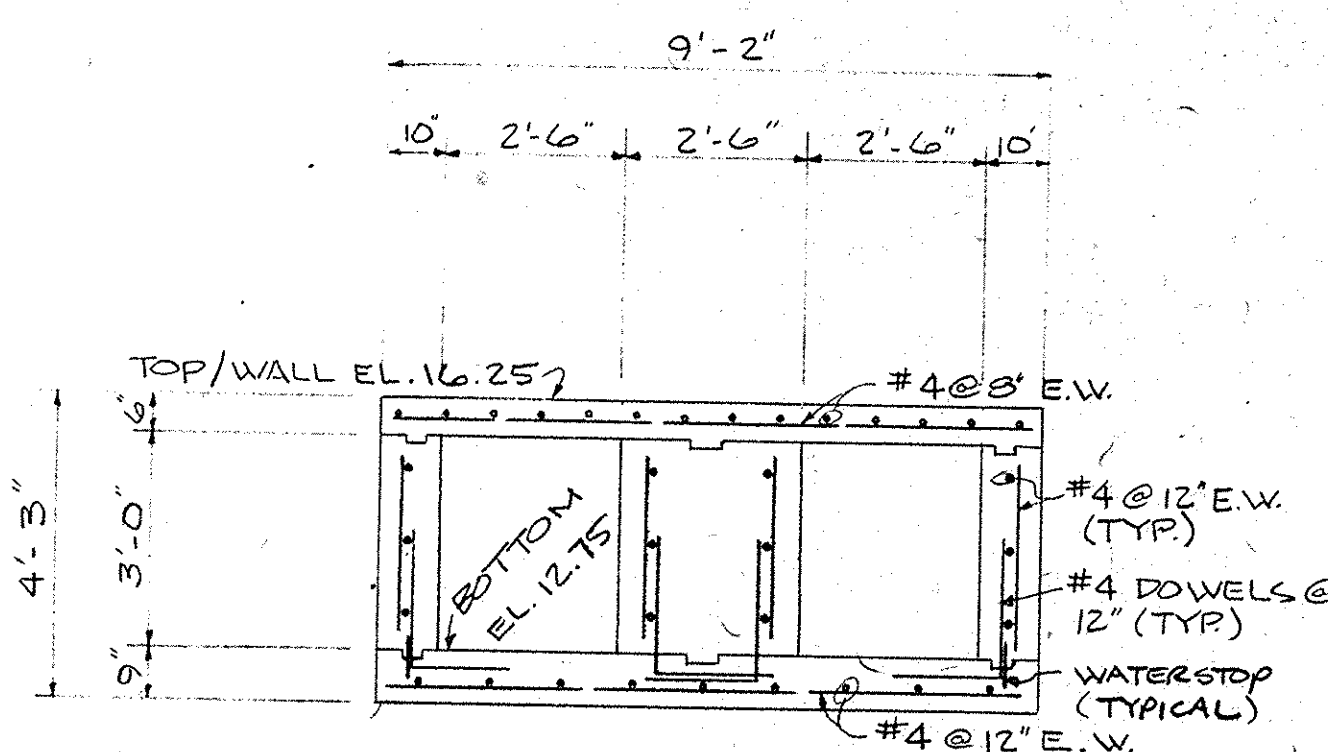
PLAN - BAR SCREEN AND PARSHALL FLUME
SCALE: 3/8" = 1'-0"



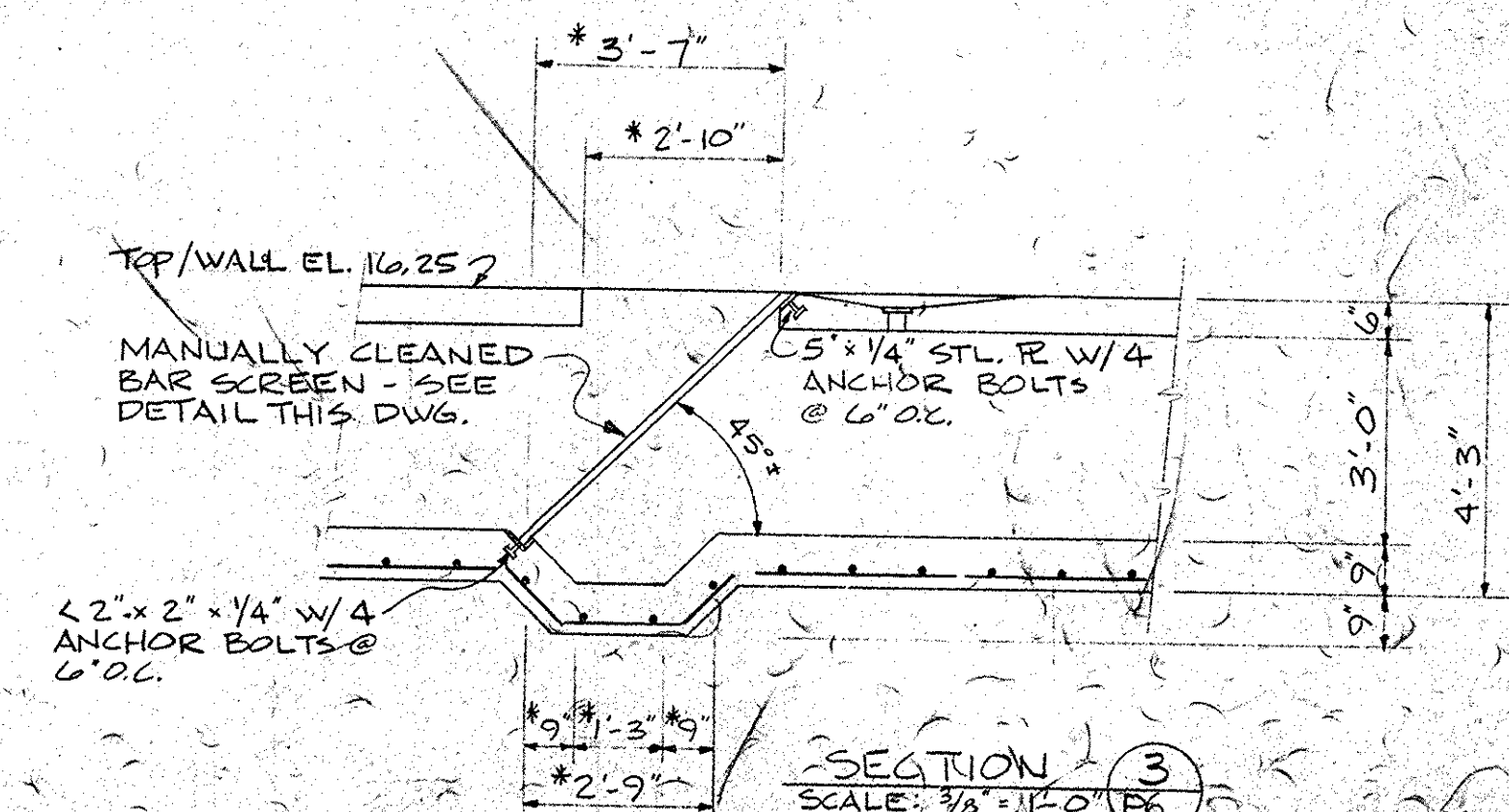
SECTION 1
SCALE: 3/8" = 1'-0"

NOTES:

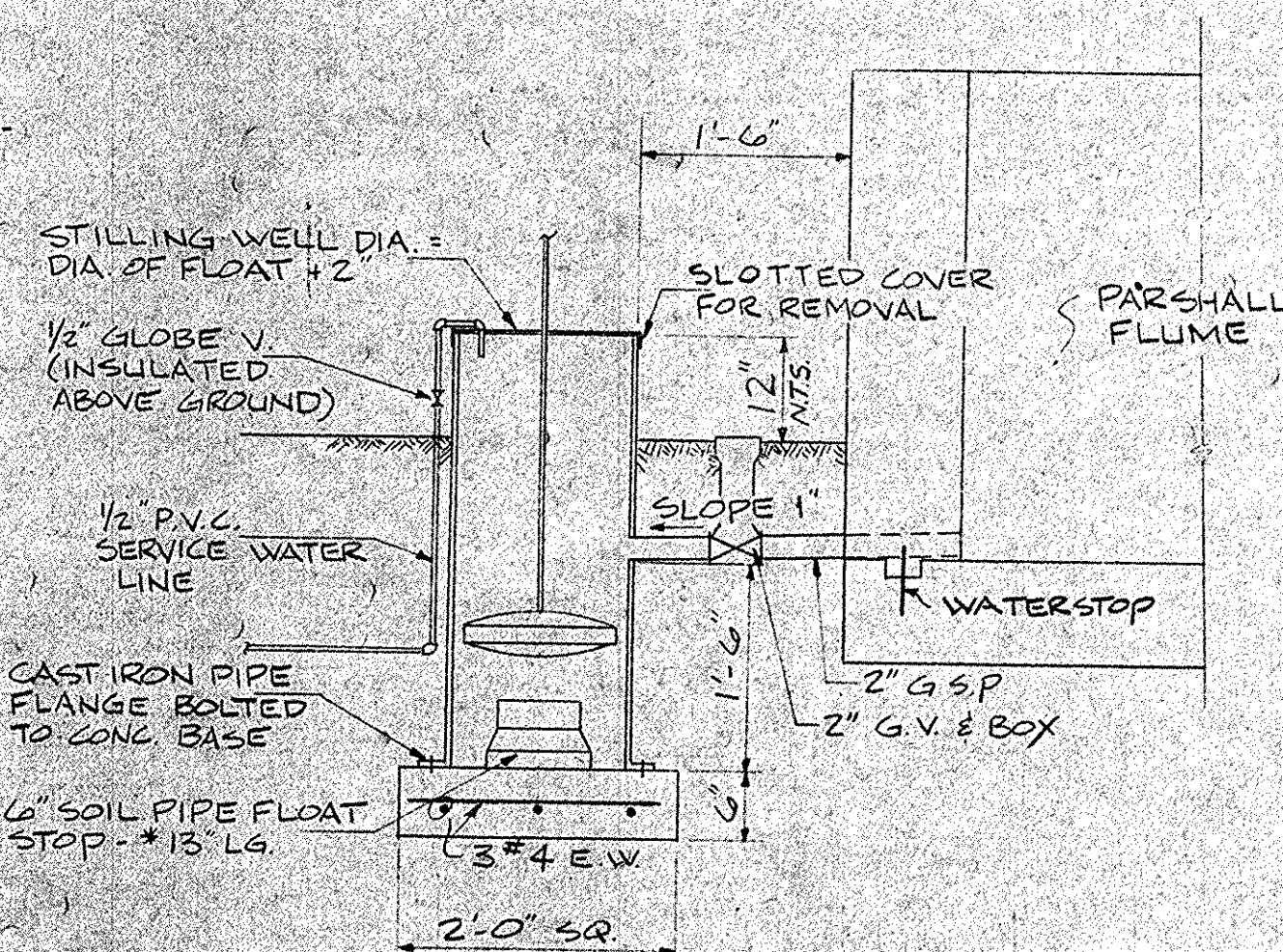
1. BAR SCREEN STRAINERS SHALL BE 21" LG. x 5" WIDE SERIES R BY JOSAM OR EQUAL MODELS BY NEENAH FOUNDRY CO. OR OTHERS.
2. GRATING SHALL BE 1/4" x 1/8" x 2.3 LB/SQ FT ALUM BY BORDEN TYPE B OR EQUAL BY KERRIGAN OR OTHERS. SEE TYP. FRAMING DETAIL DWG. NO. P13.
3. FLOOR DRAINS SHALL BE 9" DIA. W/ 3" OUTLET SERIES 3100 BY JOSAM OR EQUAL MODELS BY NEENAH FOUNDRY CO. OR OTHERS.
4. DIMENSIONS MARKED THUS * MAY CHANGE ACCORDING TO EQUIPMENT PROVIDED.



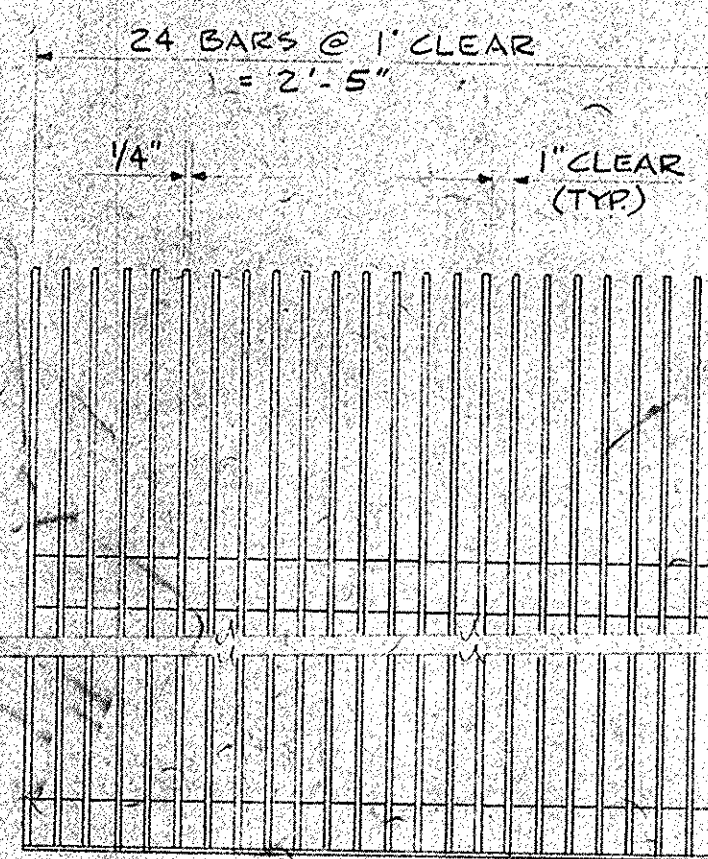
SECTION 2
SCALE: 3/8" = 1'-0"



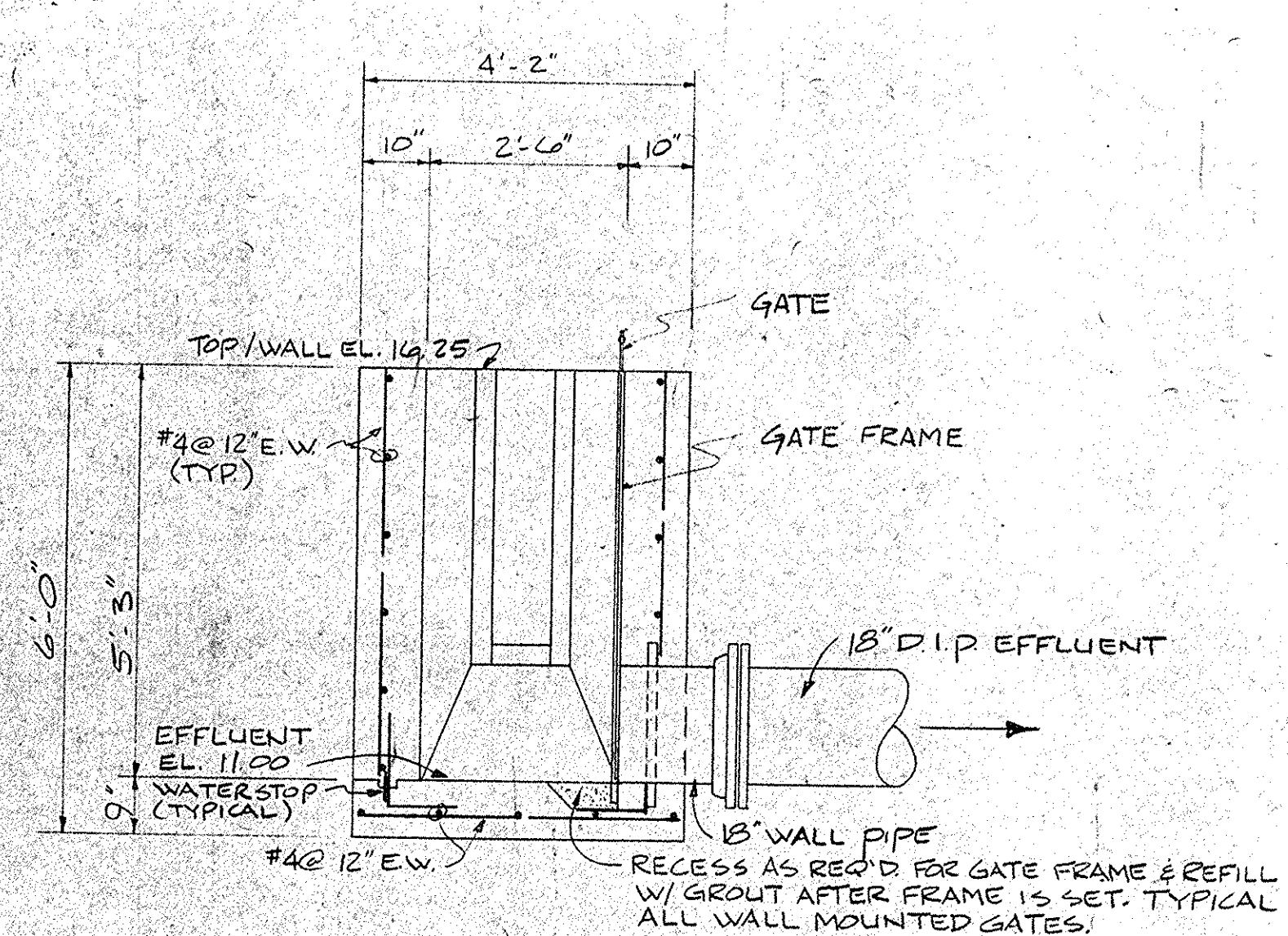
SECTION 3
SCALE: 3/8" = 1'-0"



STILLING WELL DETAIL
SCALE: 3/4" = 1'-0"



BAR SCREEN DETAIL
SCALE: 1/2" = 1'-0"



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

RECORD DRAWINGS
35-002-017/35
DIV. II
CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS
BAR SCREEN AND PARSHALL FLUME
PLAN, SECTIONS AND DETAILS

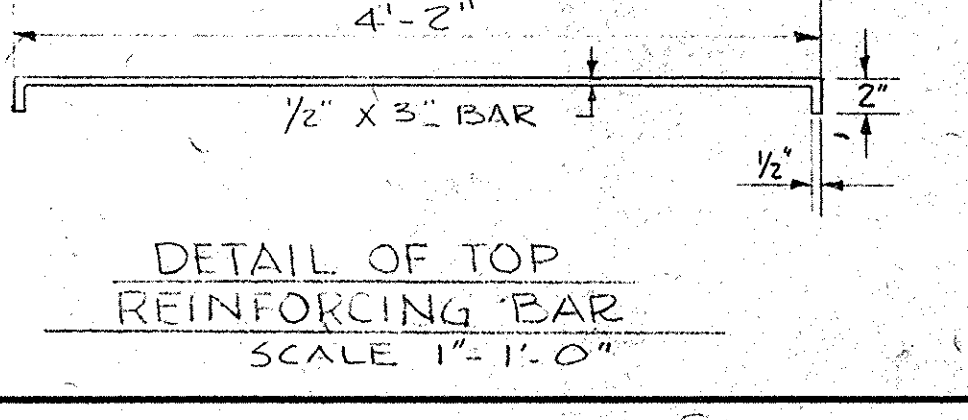
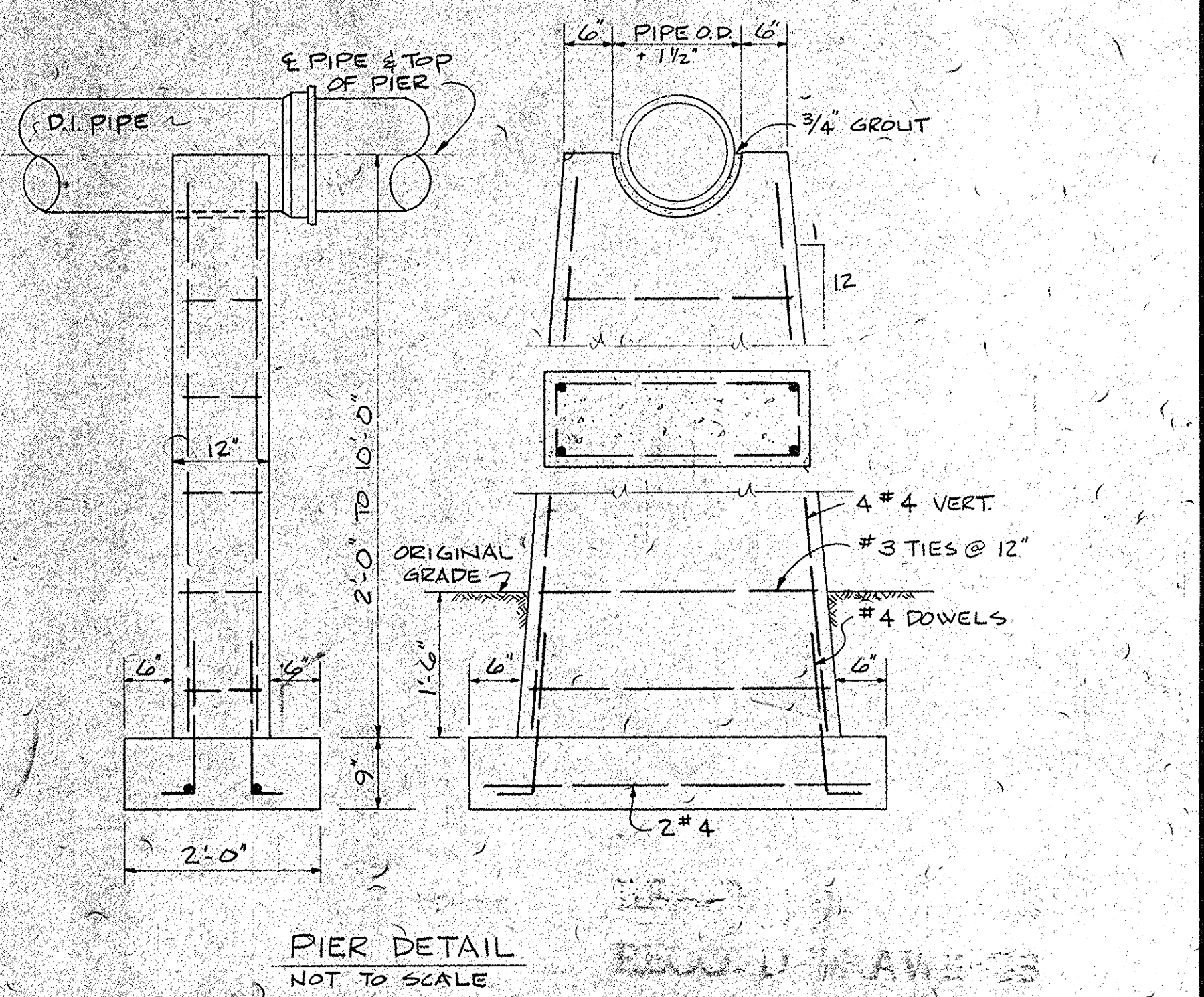
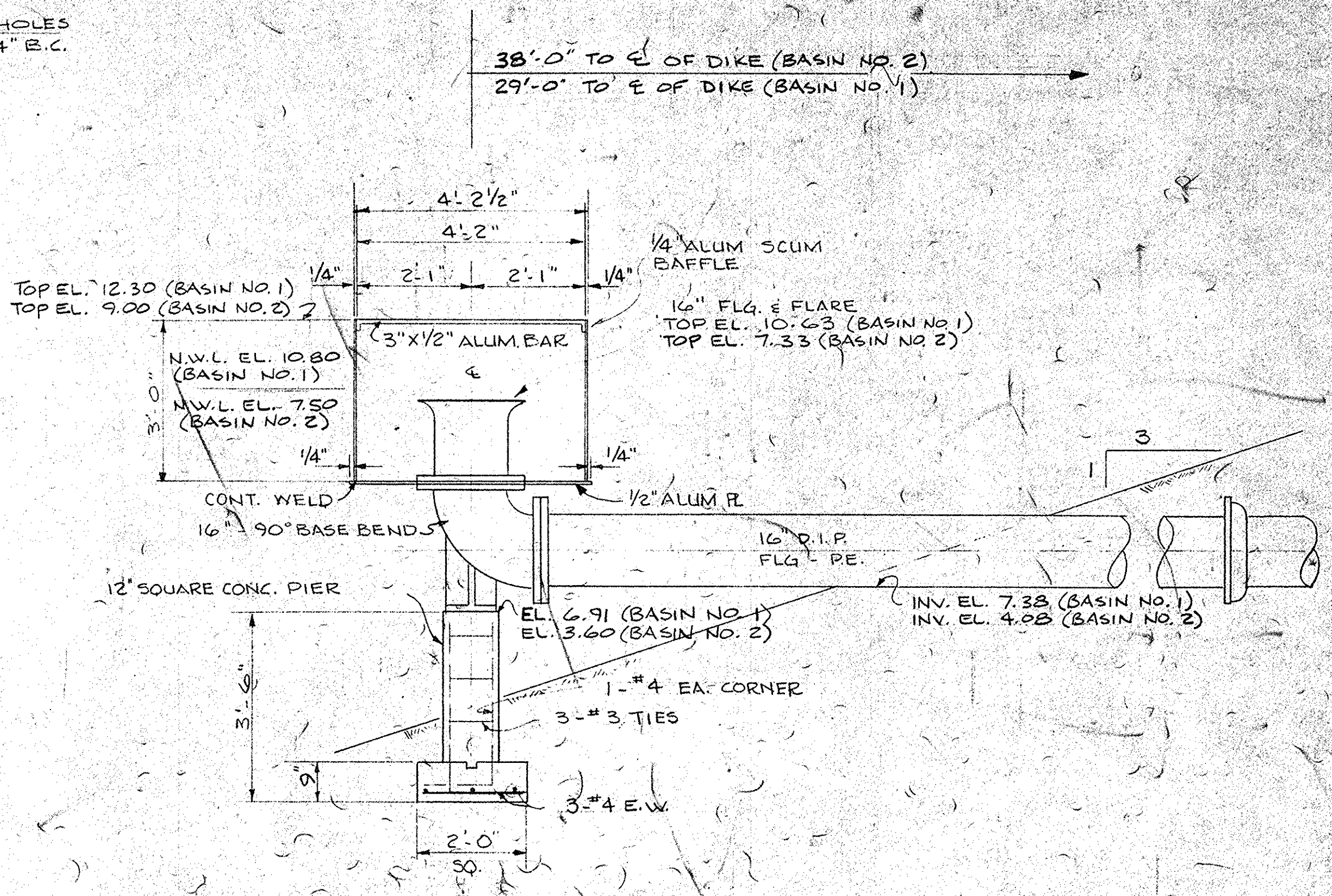
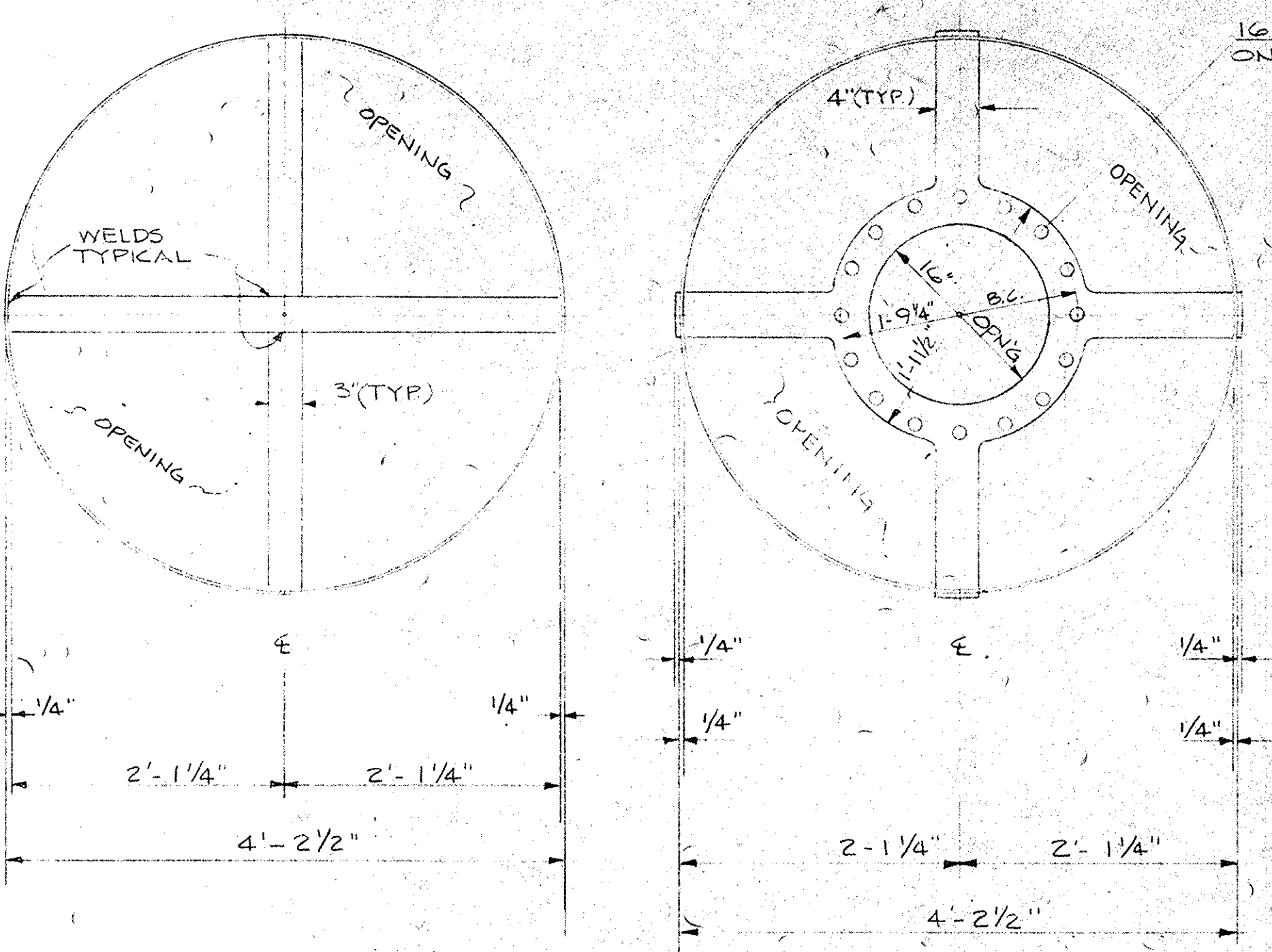
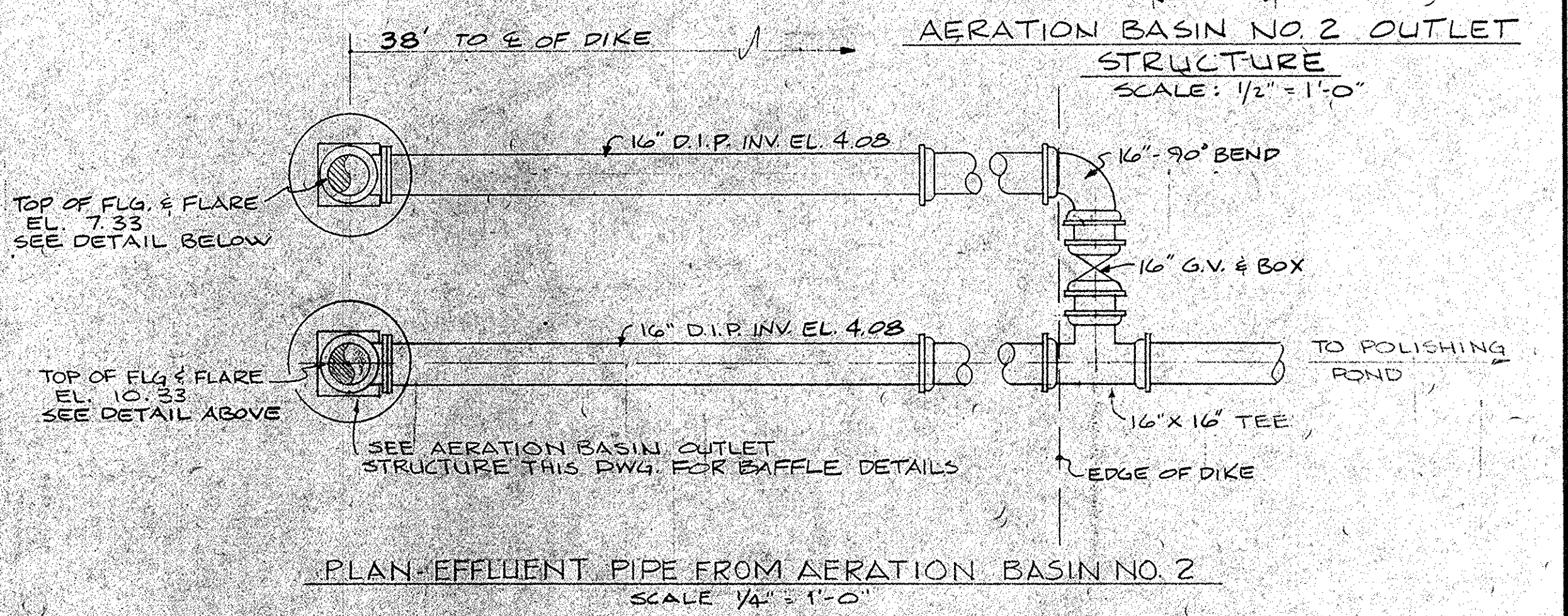
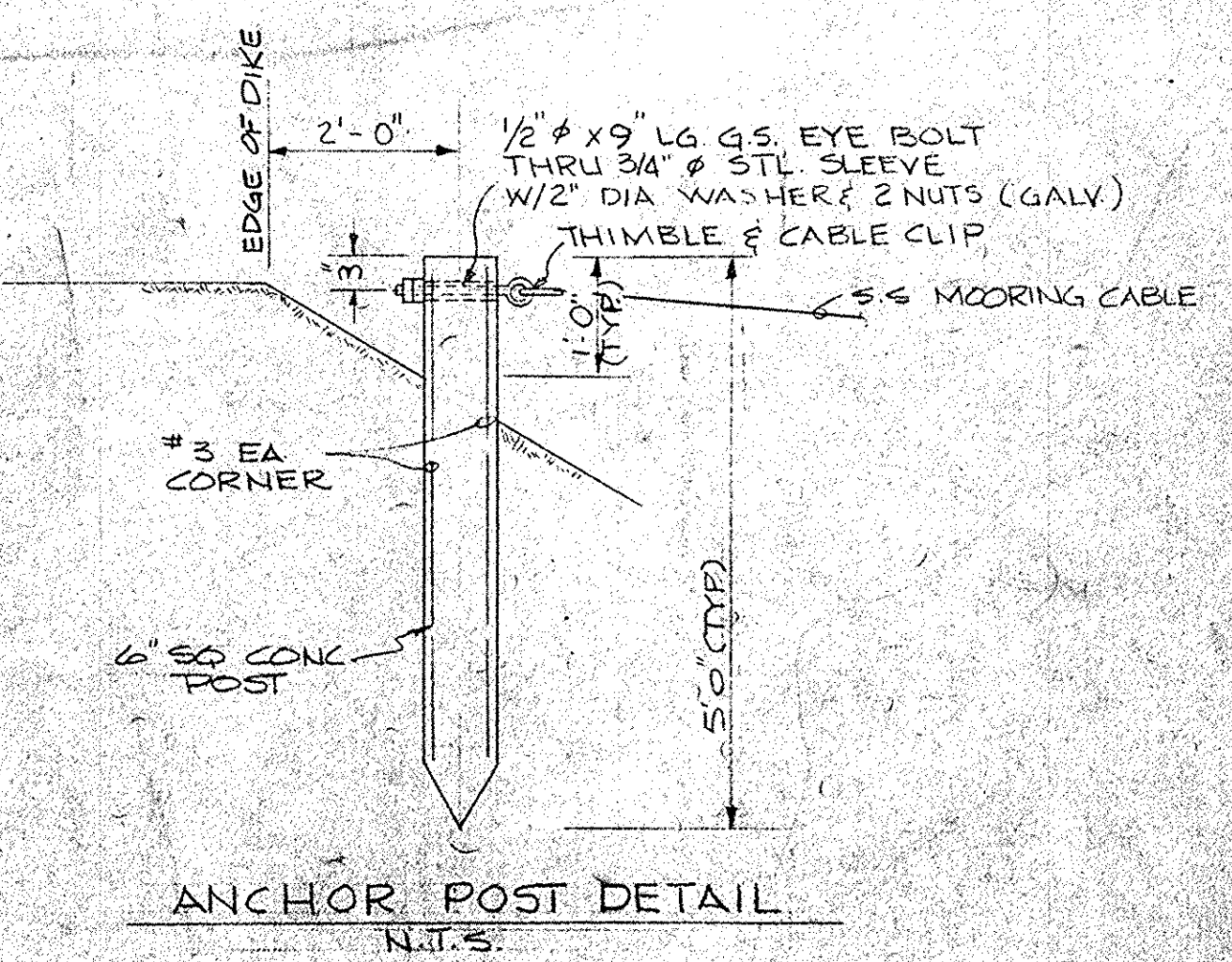
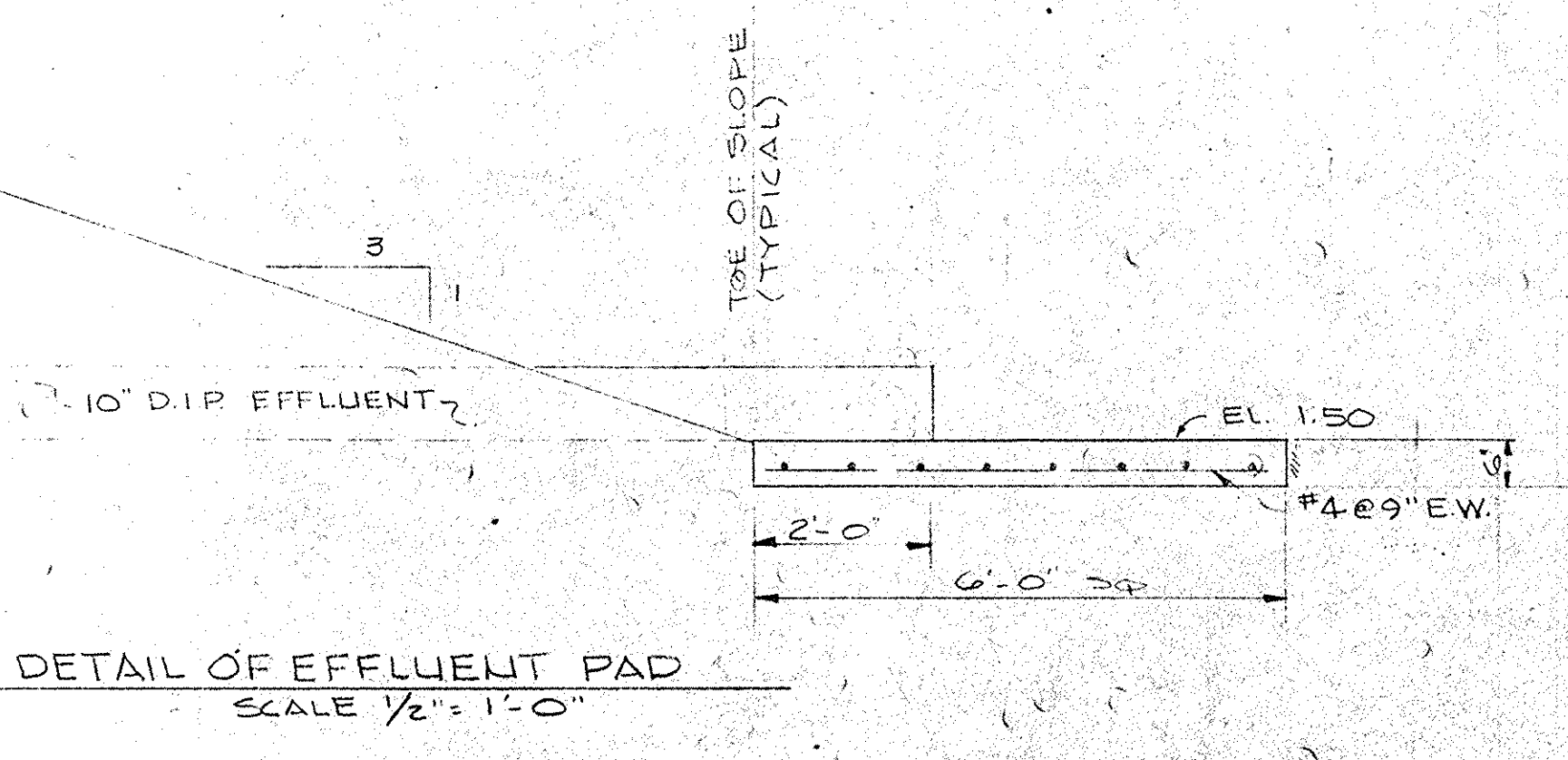
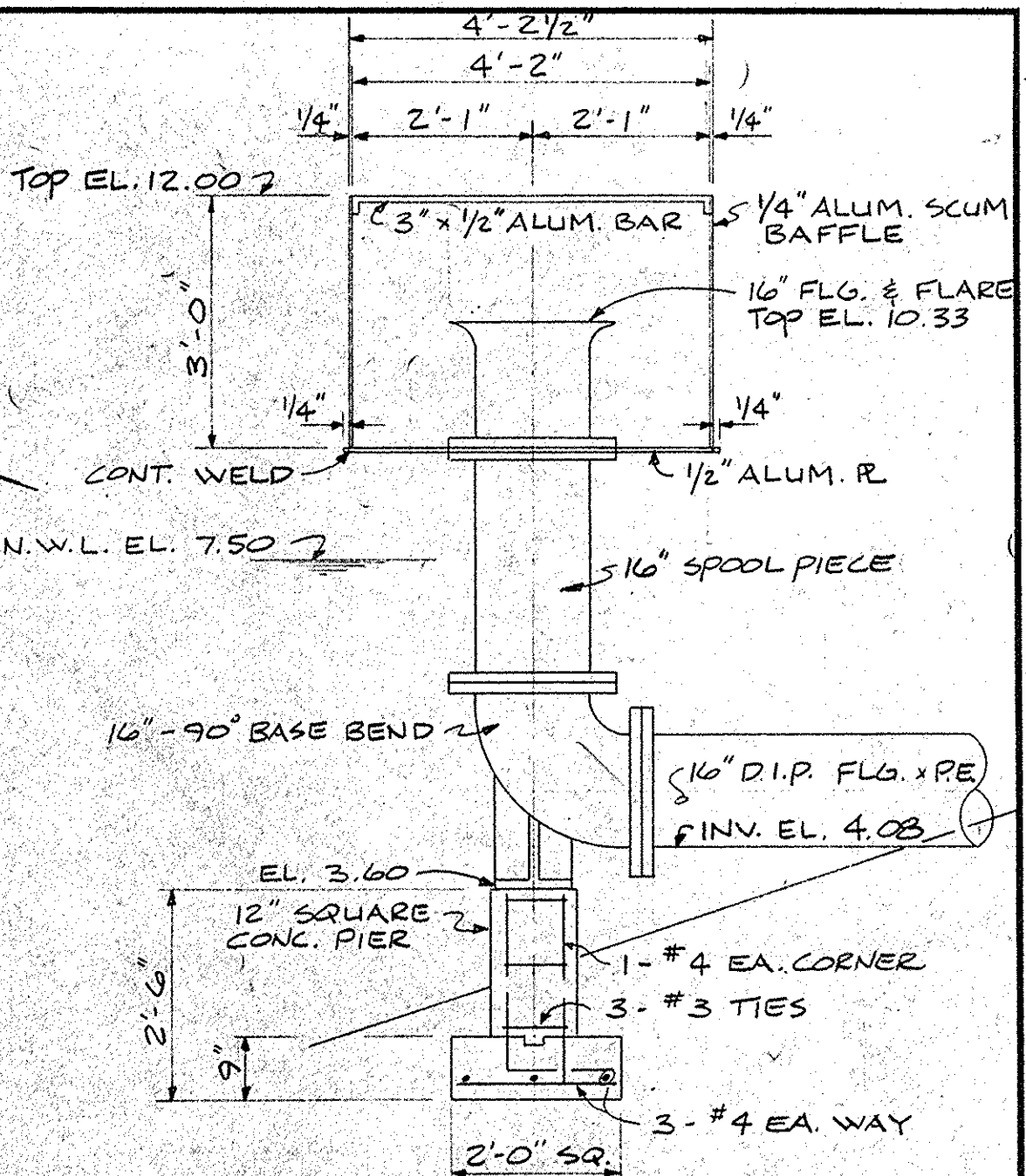
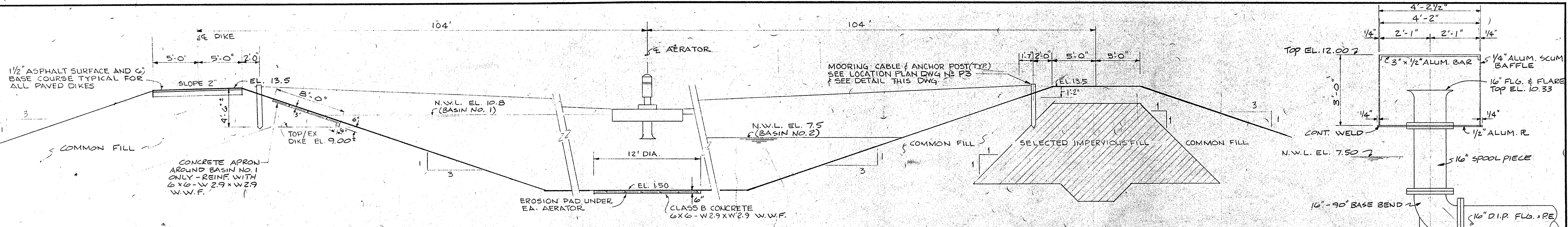
DRAWING NO.	SEQUENCE NO.
P6	17
OF 13	OF 28

HARWOOD BEEBE COMPANY
ENGINEERS
SPARTANBURG, S.C. FLORENCE, S.C. COLUMBIA, S.C.
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SCALE: AS SHOWN
DATE: SEPT. 1977
DRAWN BY: TWJ
CHECKED BY: J.O.T.
APPROVED BY: H.S.M.

PROJECT NO.
EPA C450486-01
JOB NO.
C-374
FILE NO.

NO.	DATE	BY	REVISION



NO.	DATE	BY	REVISION

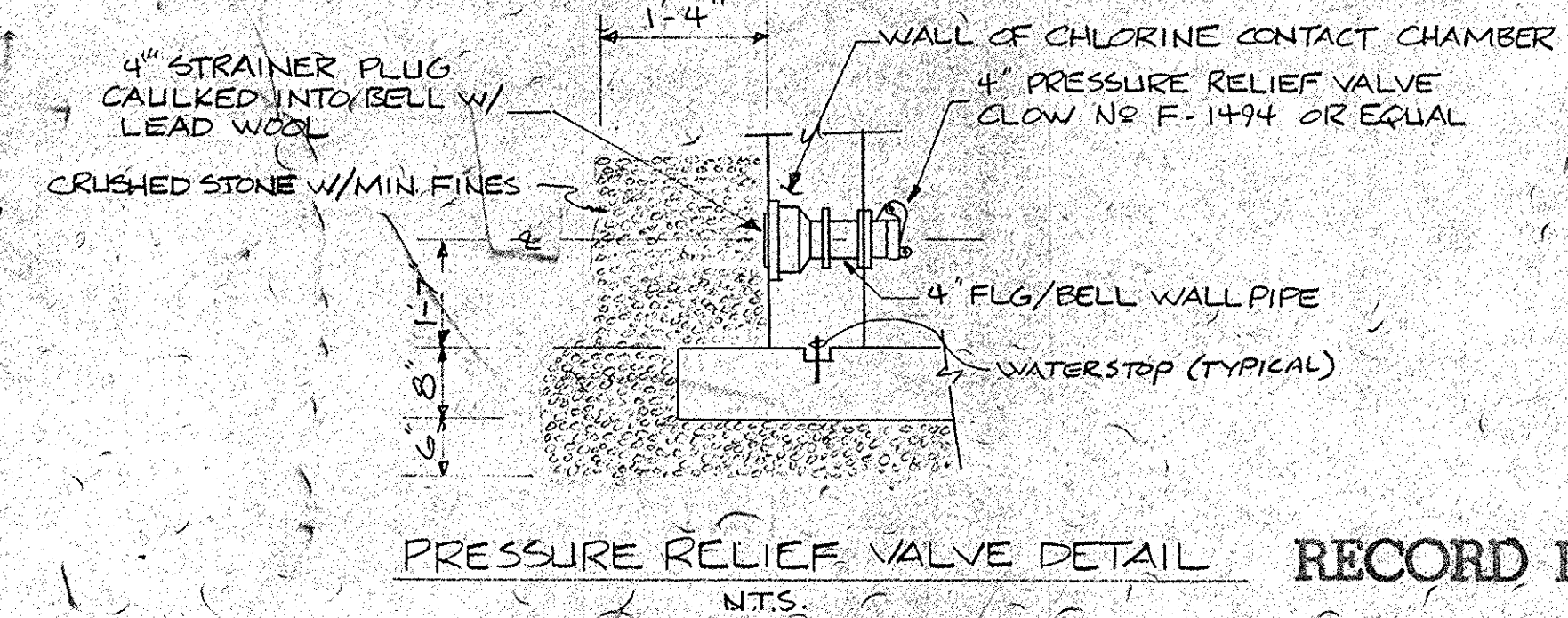
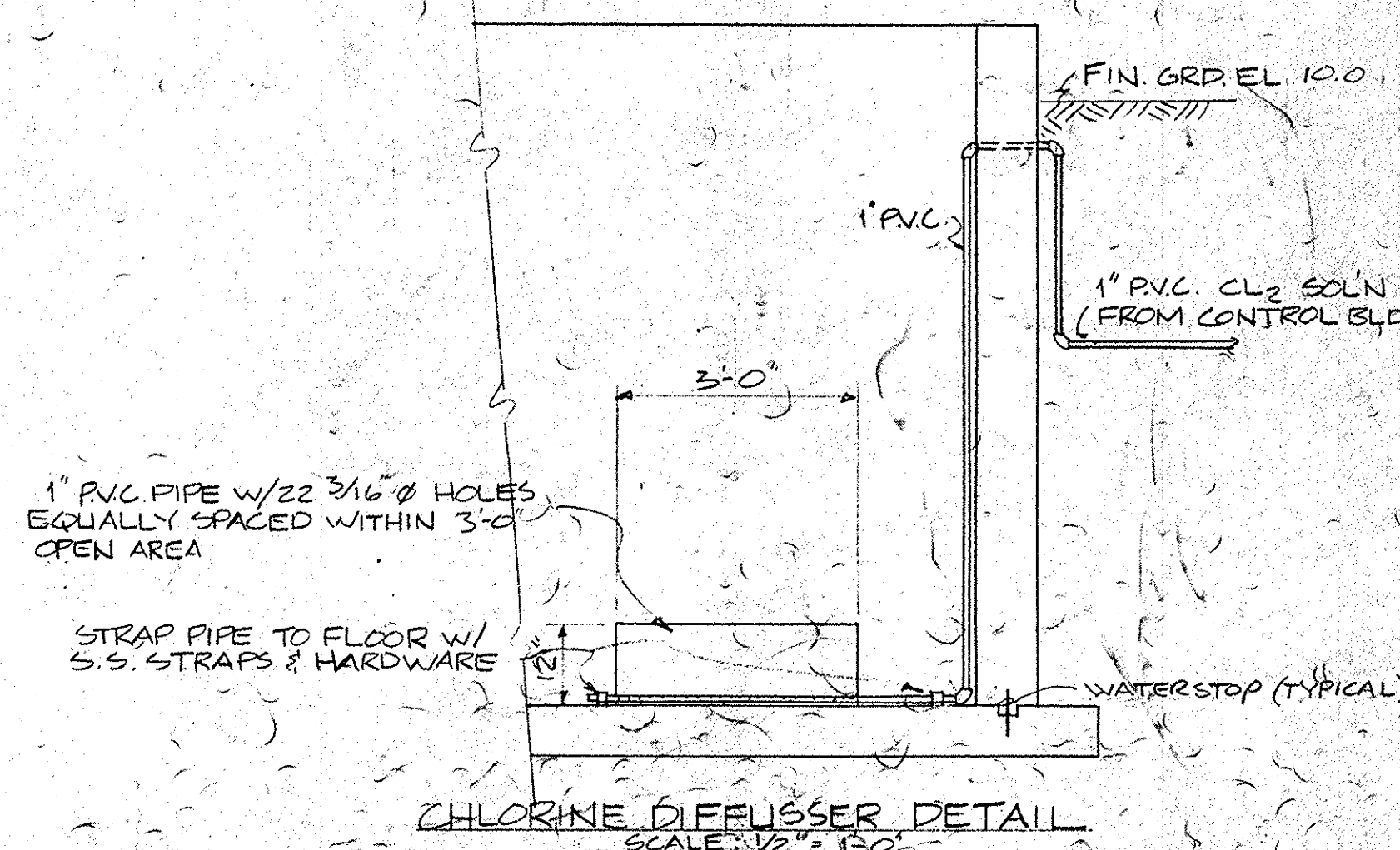
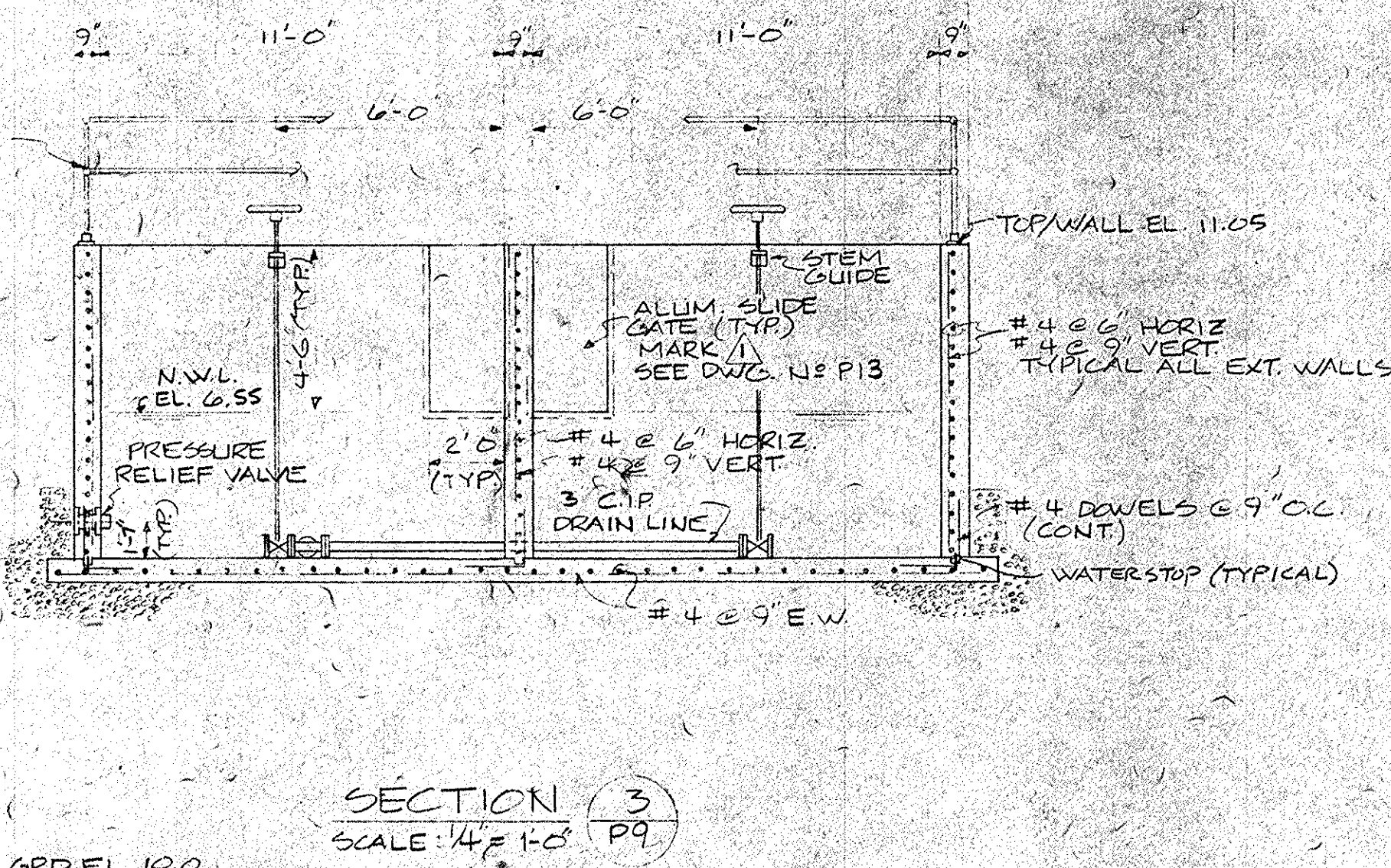
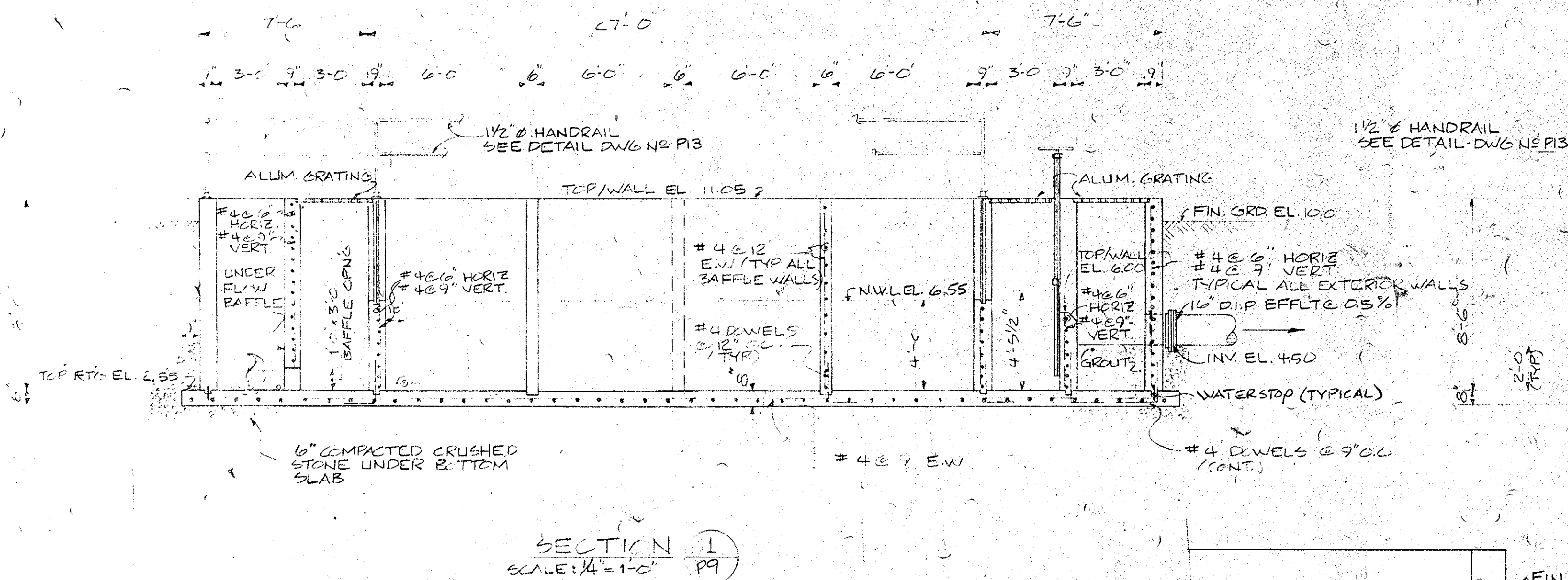
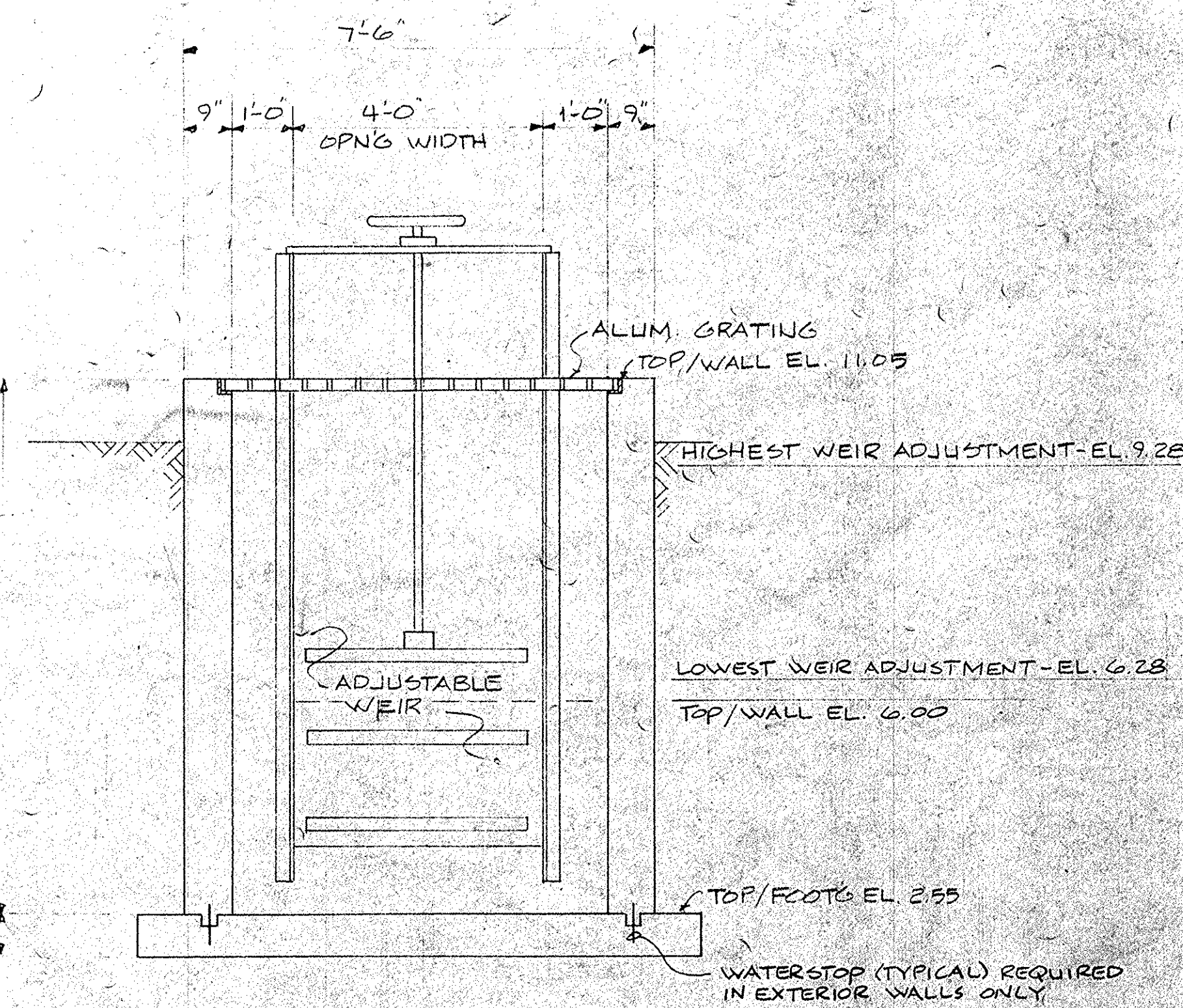
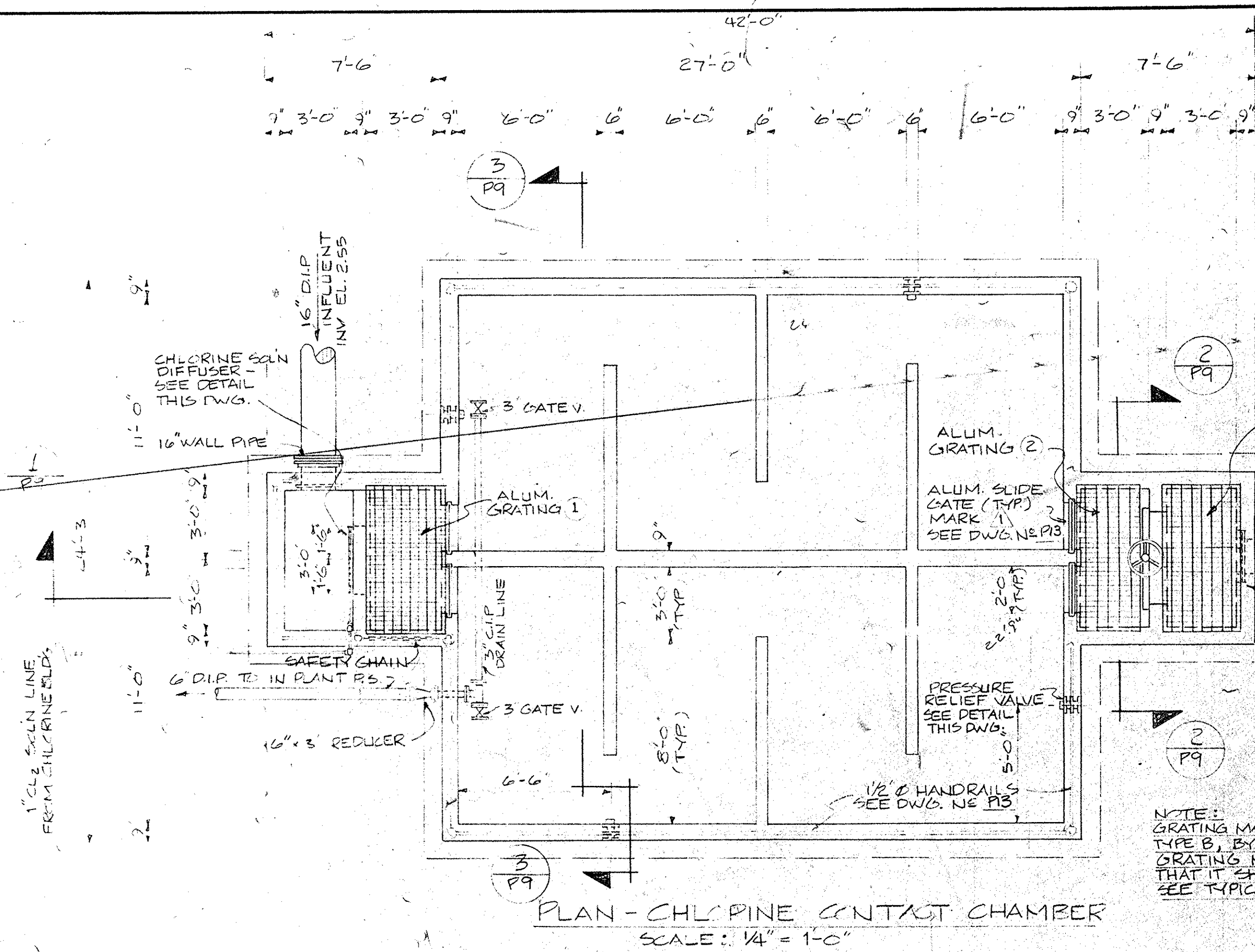
HARWOOD BEEBE
SPARTANBURG, S.C. FLORENCE, S.C. COLUMBIA, S.C.

SCALE: AS SHOWN
DATE: SEPT. 1977
DRAWN BY: D.A.N.
CHECKED BY: J.O.T.
APPROVED BY: H.S.M.

PROJECT NO. EPA C450486-01
JOB NO. C-374
FILE NO.

CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS
AERATION BASIN DETAILS

DRAWING NO. 18 OF 28
SEQUENCE NO. 18 OF 28



NO.	DATE	BY	REVISION

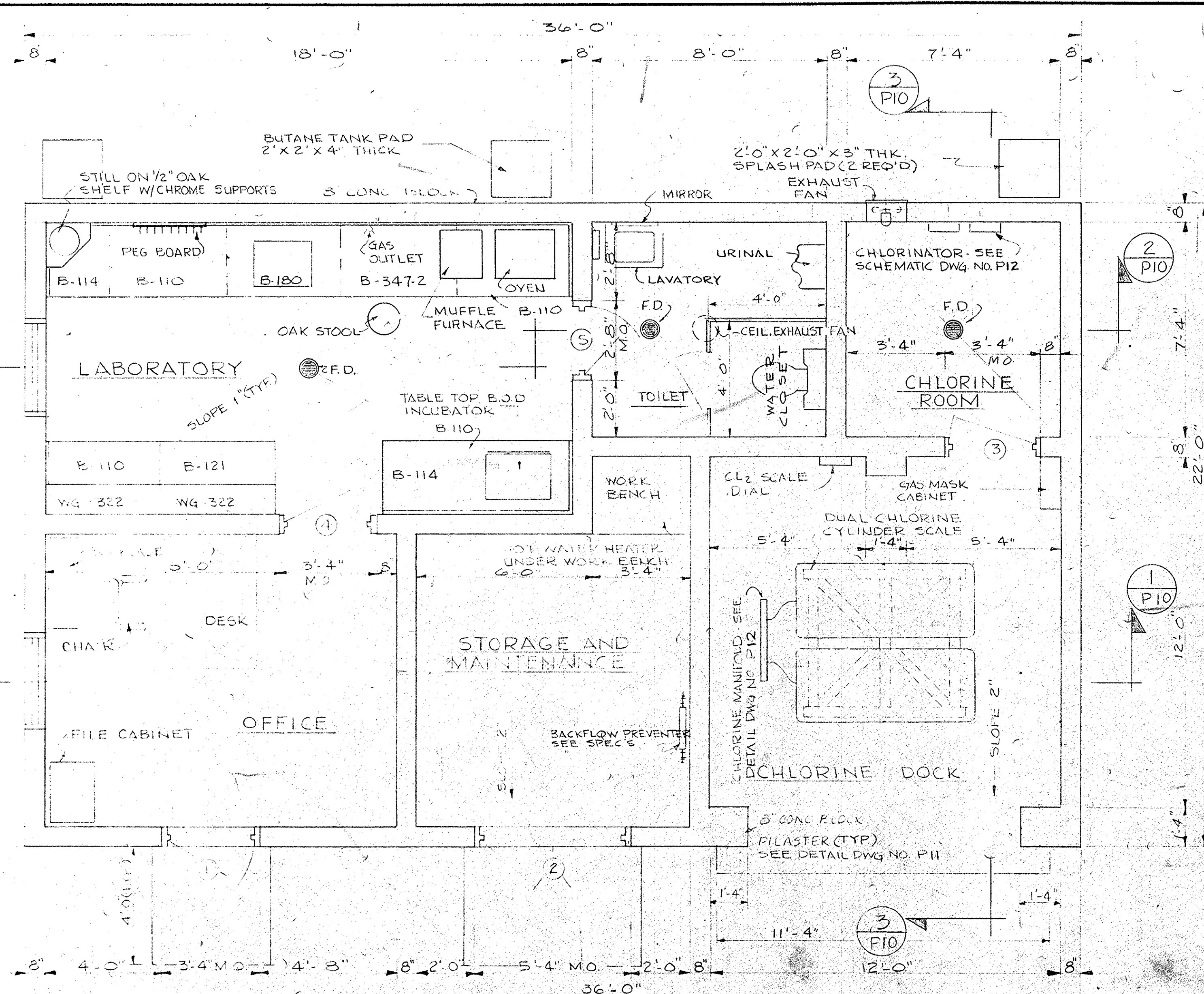
HARWOOD BEEBE
ENGINEERS
PLANNERS
ARCHITECTS
SPARTANBURG, S. C. FLORENCE, S. C. COLUMBIA, S. C.
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SCALE: 1/4" = 1'-0"
DATE: SEPT. 1977
DRAWN BY: J.E.L.
CHECKED BY: J.O.T.
APPROVED BY: H.S.M.

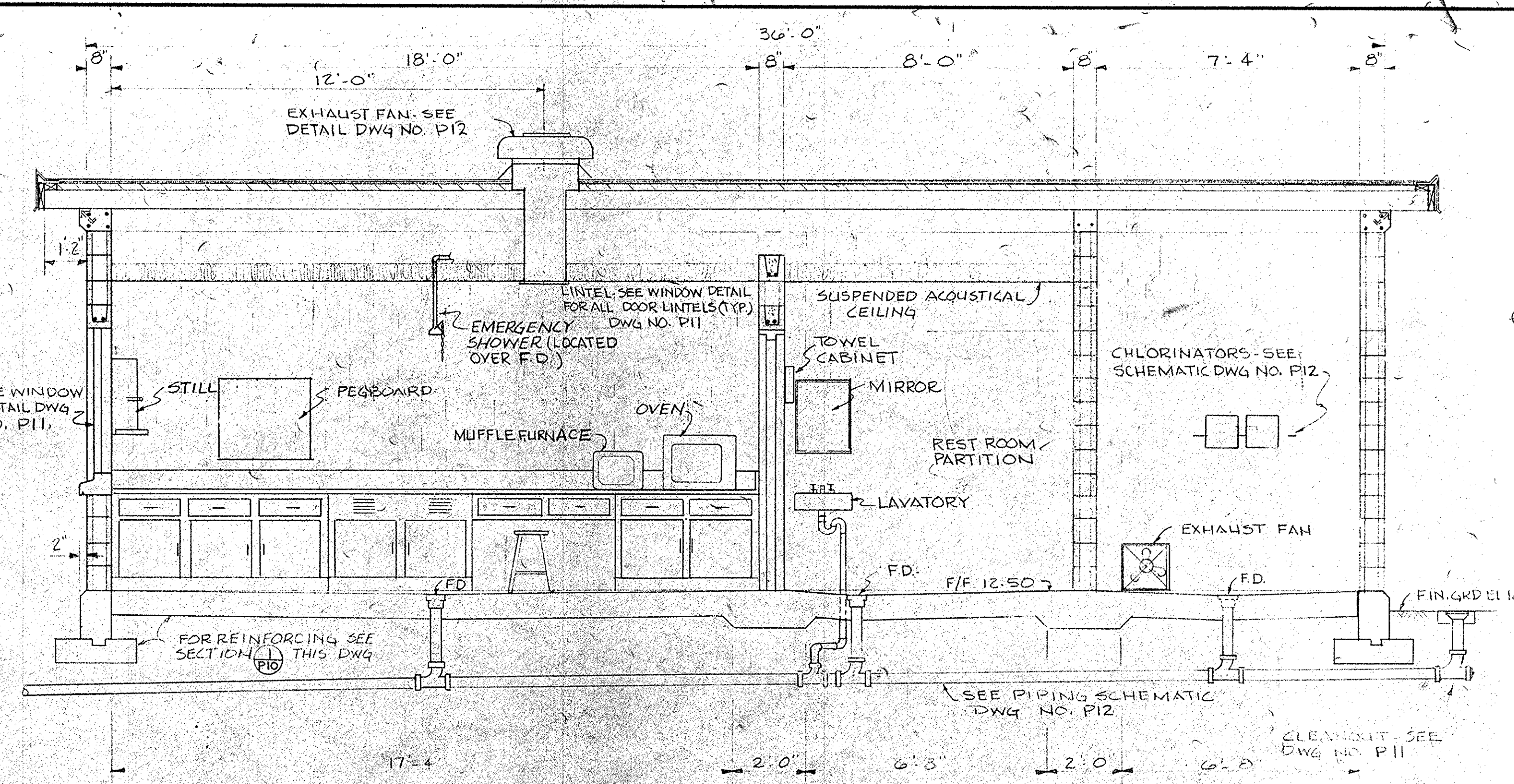
PROJECT NO. EPA C450486-01
JOB NO. C-374
FILE NO.

CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS
CHLORINE CONTACT CHAMBER
PLAN AND SECTIONS

DRAWING NO. P9 OF 13
SEQUENCE NO. 20 OF 28



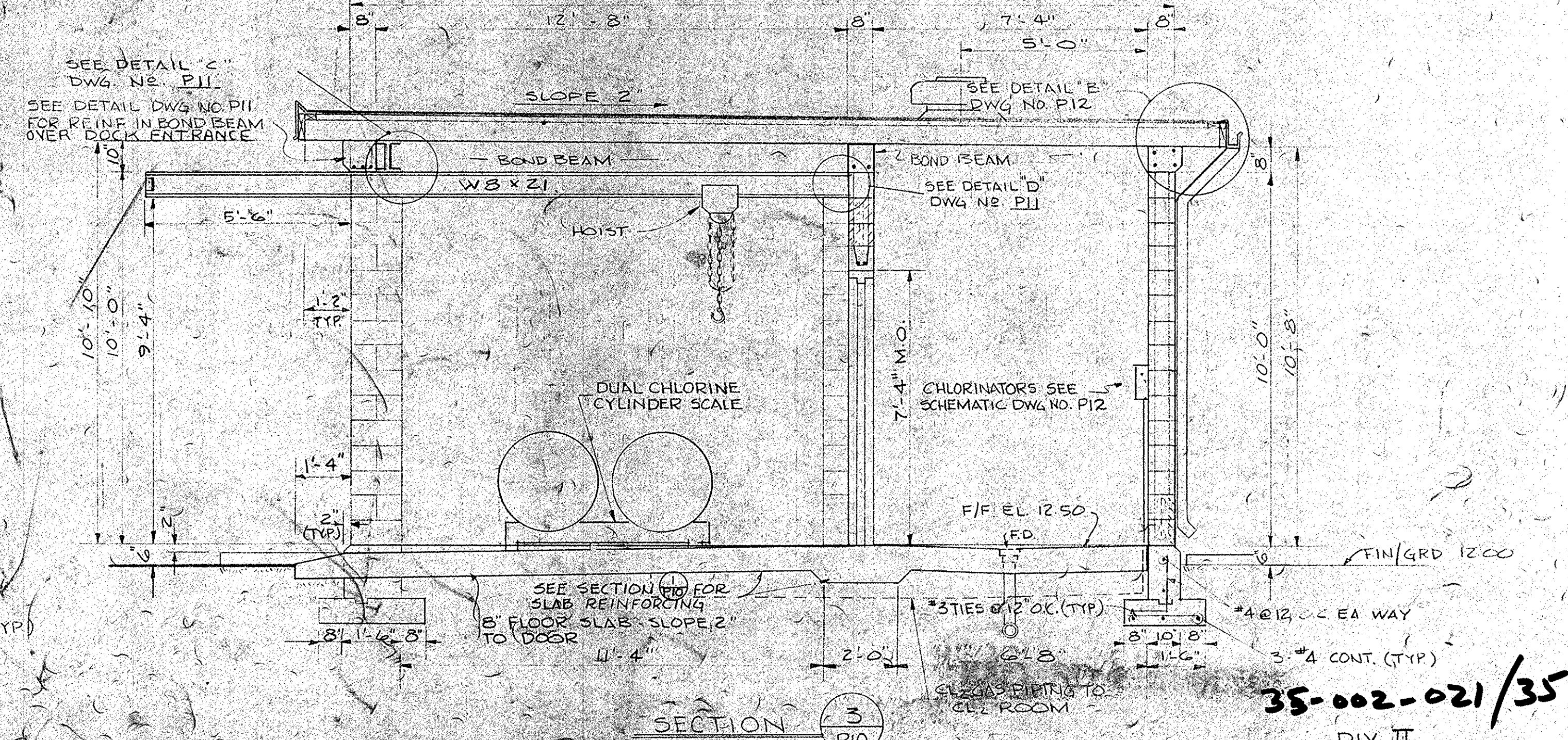
PLAN - CONTROL BUILDING
SCALE 3/8" = 1'-0"



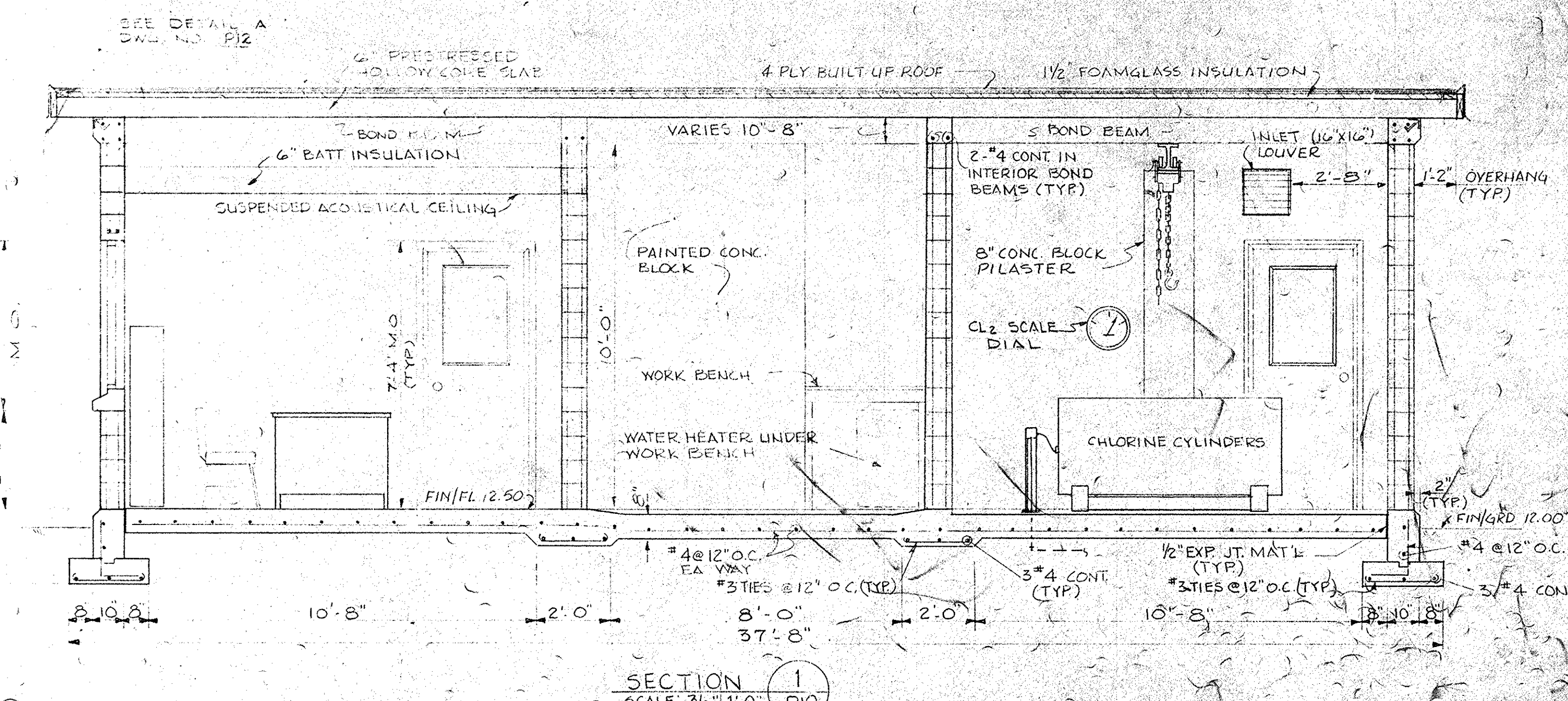
SECTION 2
SCALE 3/8" = 1'-0"

FINISH SCHEDULE				
LOCATION	FLOOR	BASE	WALLS	CEILING
OFFICE	VINYL ASB TILE	VINYL	PAINTED CONC BLK	ACOUSTICAL TILE
LABORATORY	VINYL ASB TILE	VINYL	PAINTED CONC BLK	ACOUSTICAL TILE
TOILET	VINYL ASB TILE	VINYL	PAINTED CONC BLK	ACOUSTICAL TILE
STORAGE/MAINTENANCE	CONCRETE	---	PAINTED CONC BLK	HOLLOW CORE SLAB
CHLORINE ROOM	CONCRETE	---	PAINTED CONC BLK	HOLLOW CORE SLAB
CHLORINE DOCK	CONCRETE	---	PAINTED CONC BLK	HOLLOW CORE SLAB

- NOTES
1. RUN 5/8" COPPER GAS LINE IN CHASE BEHIND CABINETS TO GAS OUTLET AND ROUTE OUTSIDE, UNDERGROUND TO BUTANE GAS TANK LOCATED AS SHOWN (BY OTHERS), TANK PAD BY CONTRACTOR.
 2. ALL WINDOWS THIS STRUCTURE TO BE CECO SERIES 2530 TYPE A423 A6H OR EQUAL MODELS BY KAWNEER OR OTHERS.
 3. ALL FLOOR DRAINS THIS STRUCTURE ARE DESIGNATED F.D. AND SHALL BE 6" W/5" OUTLET AND INTEGRAL TRAP.



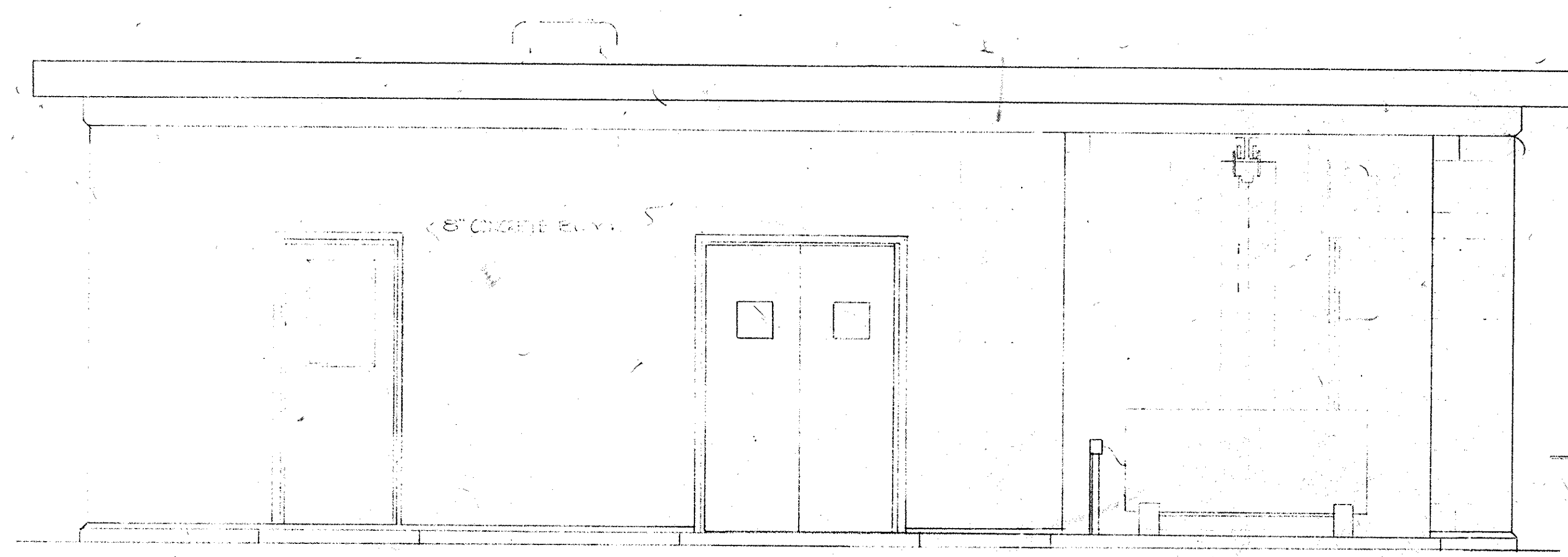
SECTION 3
SCALE 3/8" = 1'-0"



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

HARWOOD BEEBE SPARTANBURG, S.C. FLORENCE, S.C. COLUMBIA, S.C. <small>This drawing and the design shown thereon are the property of HARWOOD BEEBE. The reproduction, copying, or use of this drawing without their written consent is prohibited and any infringement will be subject to legal action.</small>		PROJECT NO. EPA C450486-01 JOB NO. C-374 FILE NO.	CITY OF CONWAY, S.C. WASTE FACILITIES IMPROVEMENTS CONTROL BUILDING PLAN AND SECTIONS	DRAWING NO. P10 OF 13	SEQUENCE NO. 21 OF 28
NO.	DATE	BY	REVISION		

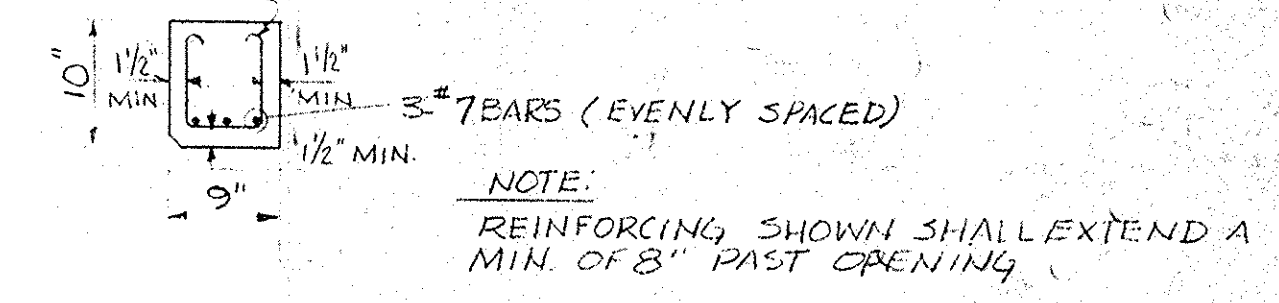
35-002-021/35
DIV II



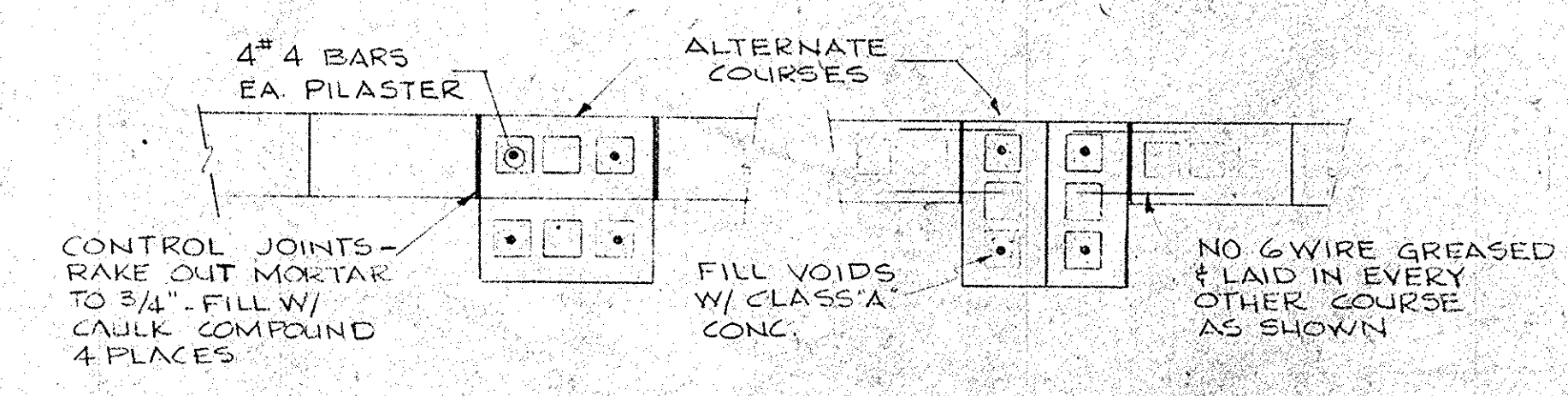
FRONT ELEVATION (NORTH)
SCALE 3/8" = 1'-0"

MARK	SIZE	TYPE	DESIGN	FRAME	SIZE	LOCKSET	HINGES	CLOSERS	LOUVER	REMARKS
1	3'-0" x 7'-2"	II	4	STL	8 3/4"	SERIES 1953	SERIES 643A-48B	SERIES 1230		
2	5'-0" x 7'-2"	II	4	STL	"	1953	"	"		DELE. Hg. w/ STRIKE #2152
3	3'-0" x 7'-2"	II	4	STL	"	1902	"	"		
4	3'-0" x 7'-2"	I	4	STL	"	9720	"	"		
5	2'-4" x 7'-2"	I	LI	STL	"	9185B	"	"	LA 12 x 14"	

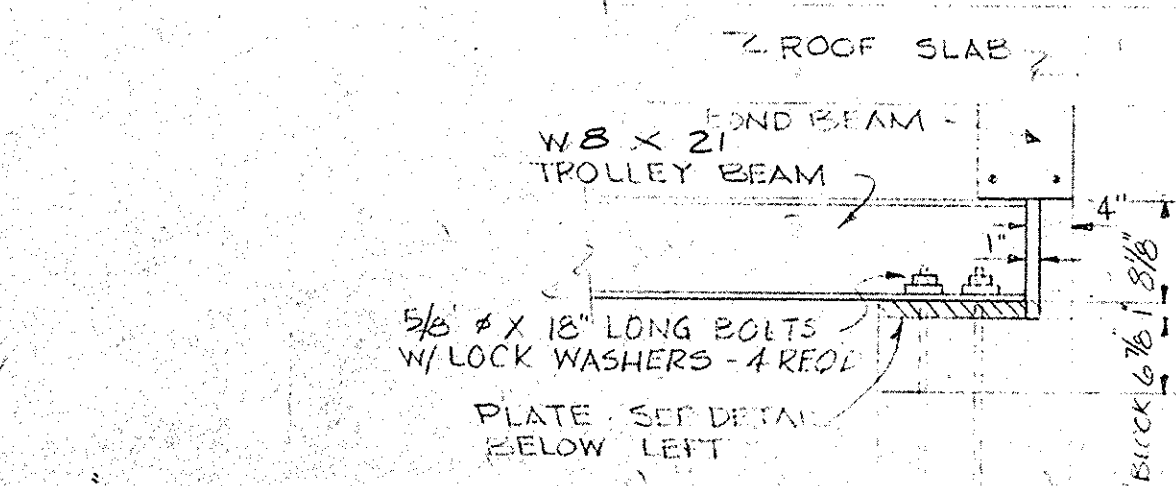
#3 STIRRUPS @ 12" O.C. * CATALOG DATA FROM FENESTRA, EQUAL MODELS BY CELCO OR EQUAL



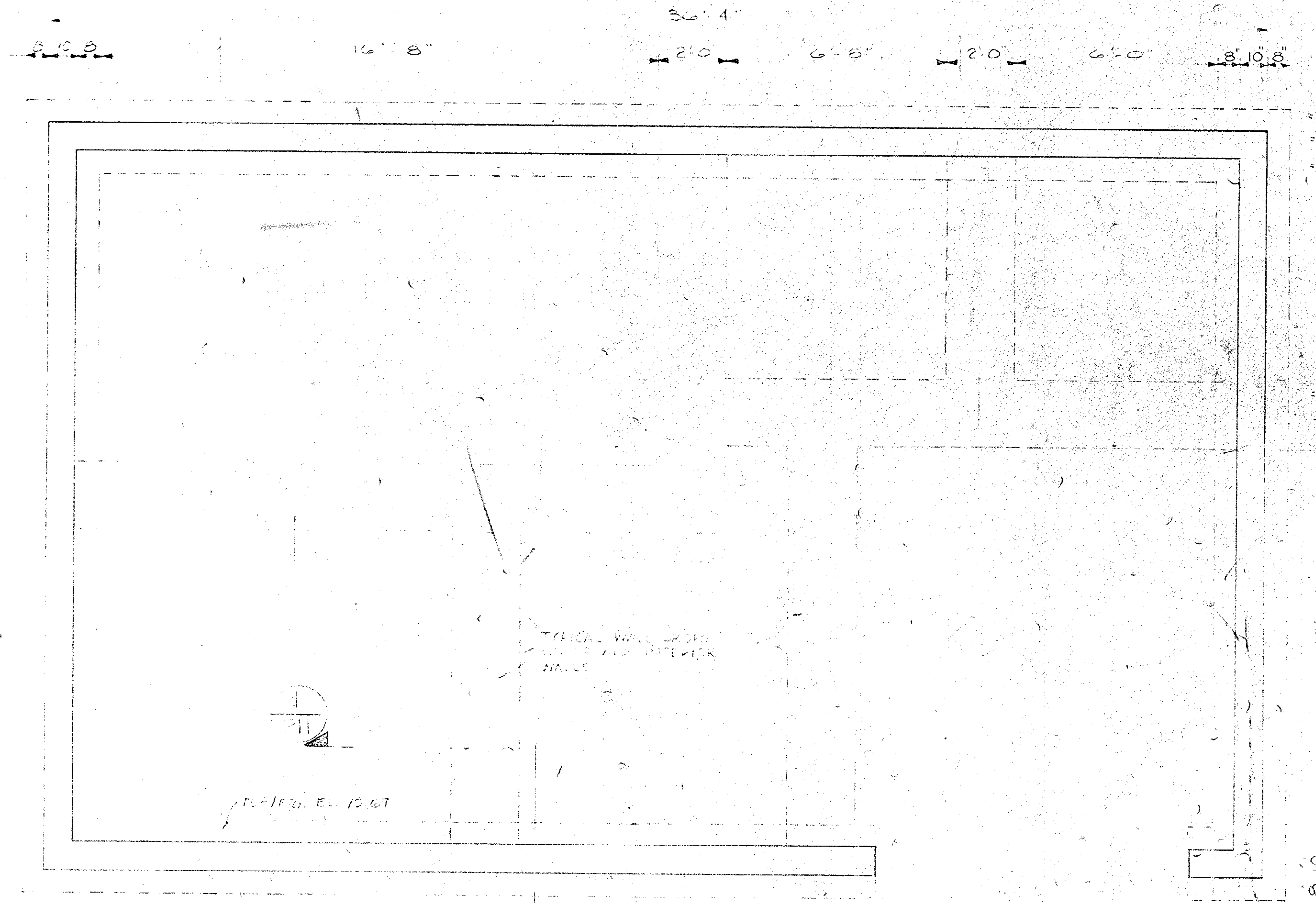
BOND BEAM REIN. OVER DOCK ENTRANCE
SCALE 3/4" = 1'-0"



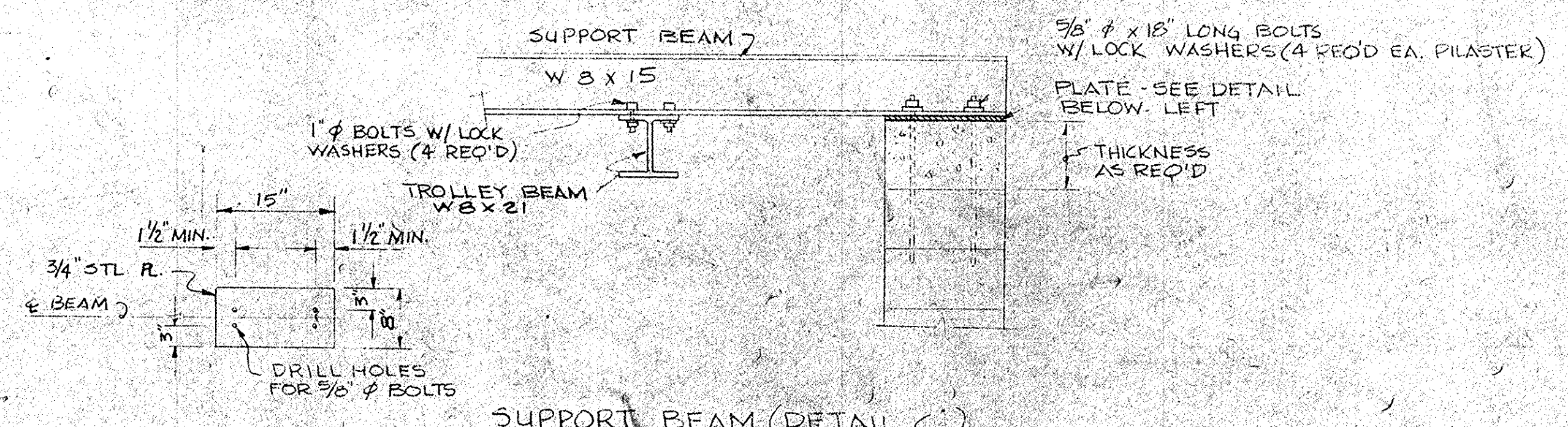
BEAM SUPPORT PILASTER DETAILS
SCALE 3/4" = 1'-0"



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

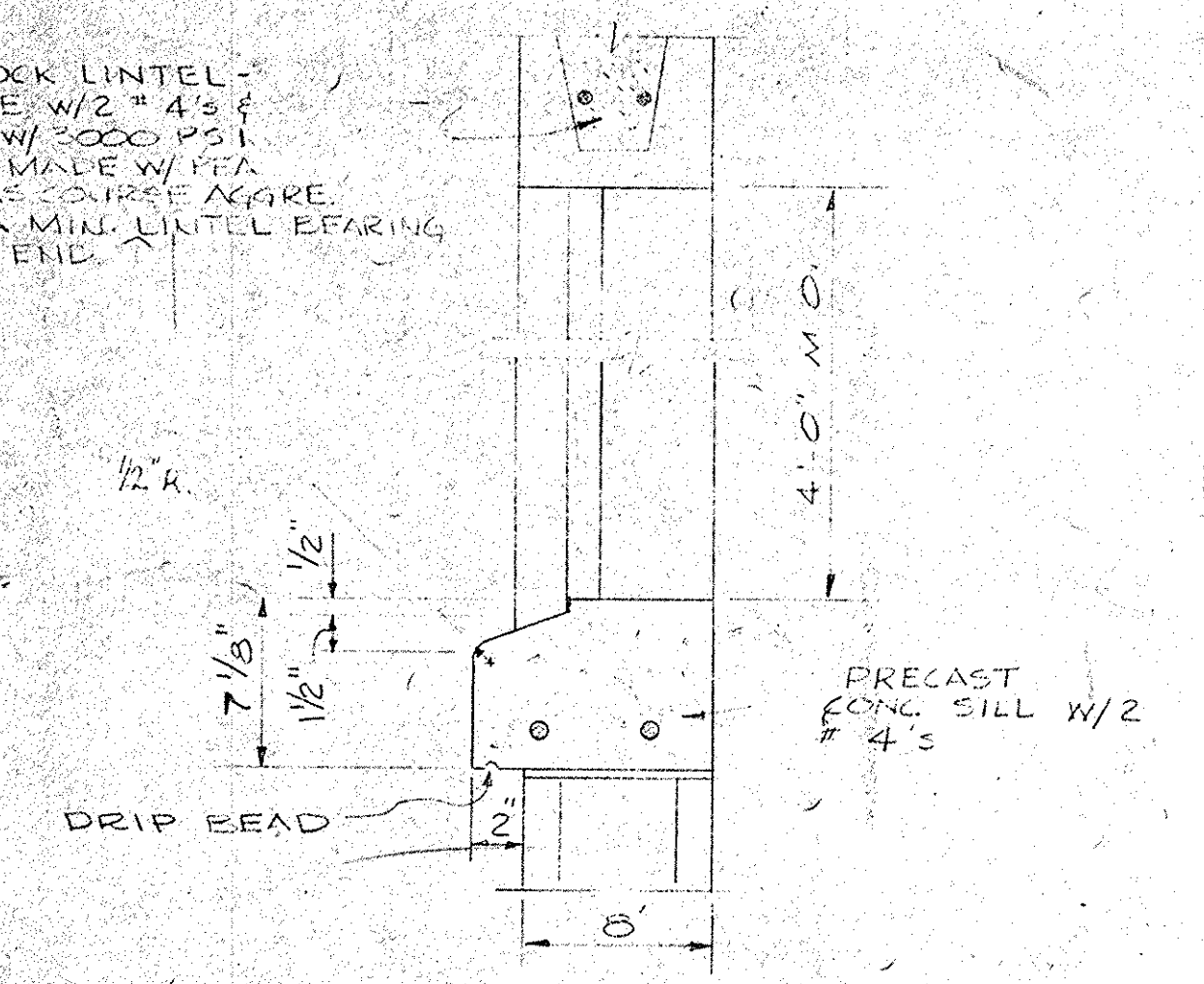


FOUNDATION PLAN
SCALE 3/8" = 1'-0"

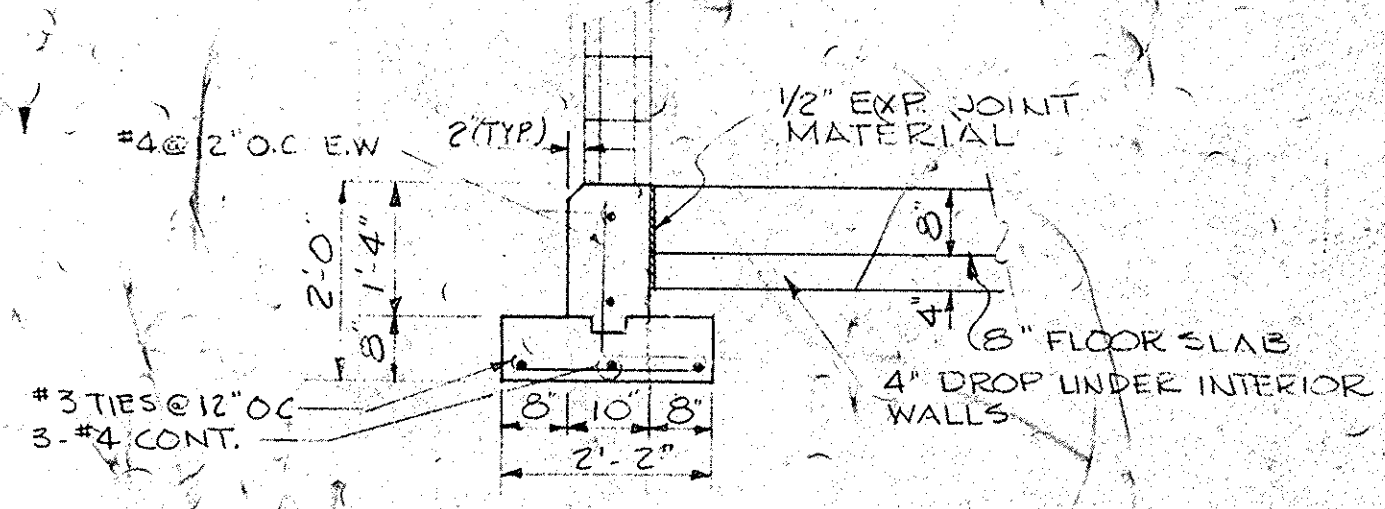


SUPPORT BEAM (DETAIL C)
TYPICAL BOTH END OF BEAM
SCALE 3/4" = 1'-0"

CONC. BLOCK LINTEL - REINFORCE W/ 2" #4'S & FILL CORE W/ 3000 PSI CONCRETE MADE W/ FEA GRAVEL AS COURSE AGGR. PROVIDE A MIN. LINTEL BEARING OF 8" EA. END.



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



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

NO.	DATE	BY	REVISION

HARWOOD BEEBE ENGINEERS
SPARTANBURG, S.C. FLORENCE, S.C. COLUMBIA, S.C.

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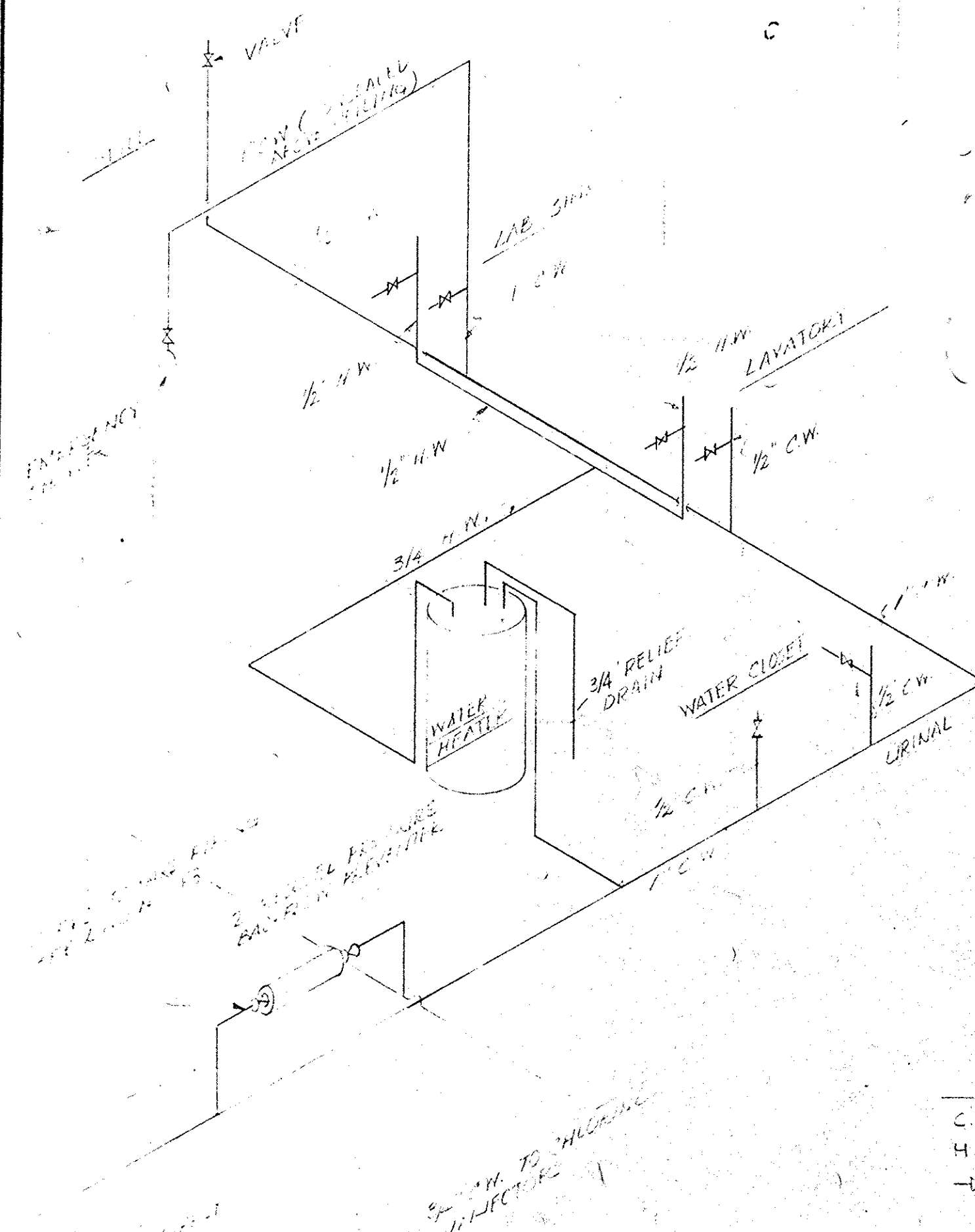
SCALE: AS SHOWN
DATE: SEPT. 1977
DRAWN BY: D.A.N.
CHECKED BY: J.O.T.
APPROVED BY: H.S.M.

PROJECT NO. EPAC 450486-01
JOB NO. C-374
FILE NO.

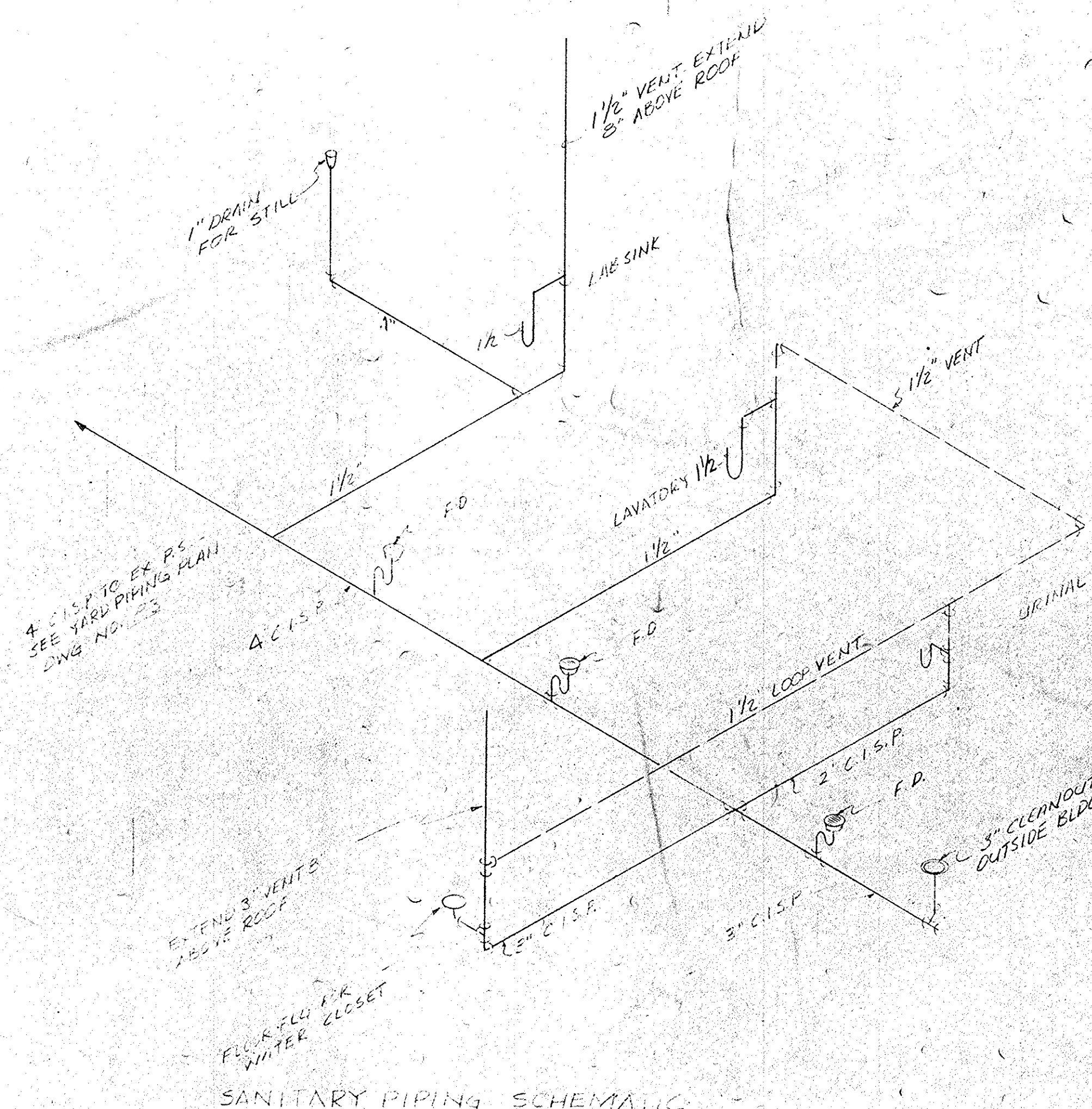
CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS
CONTROL BUILDING ELEVATION
FOUNDATION PLAN AND DETAILS

DRAWING NO. P11 OF 13
SEQUENCE NO. 22 OF 28

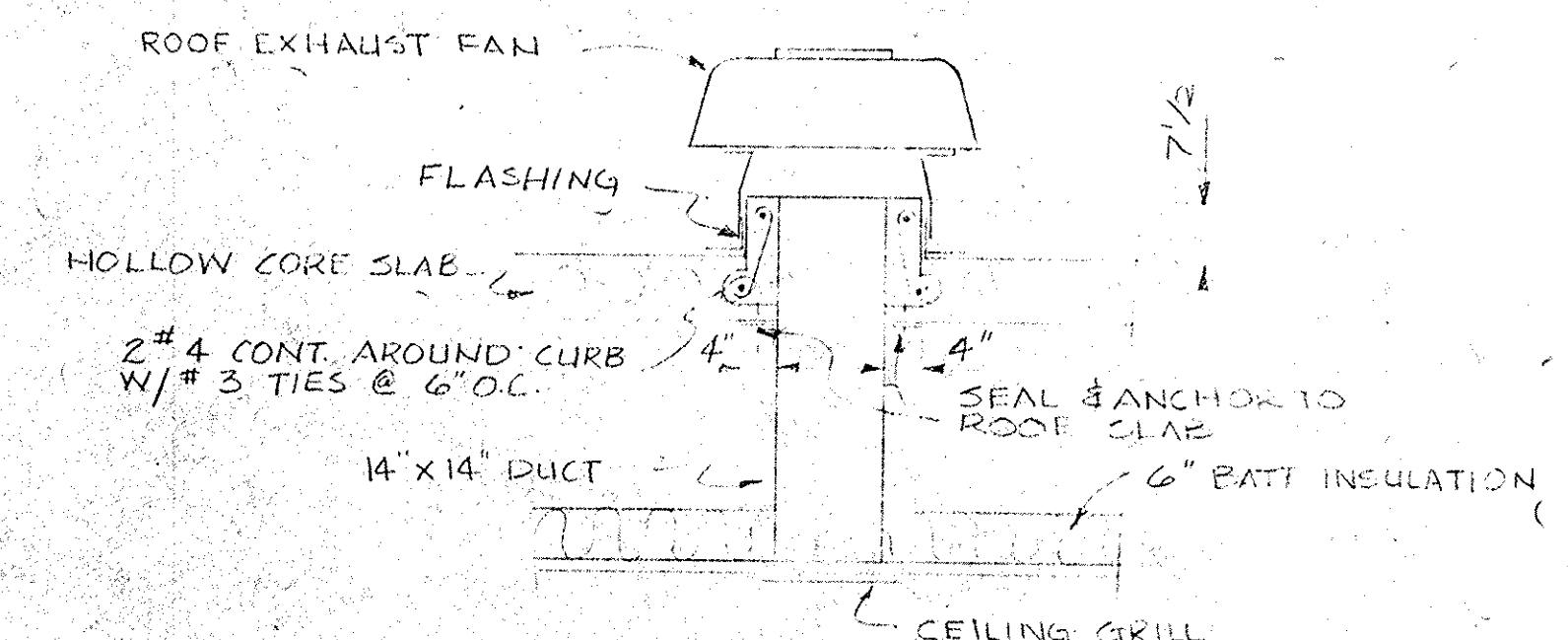
RECORD DRAWINGS 35.002-022/35
DIV. II



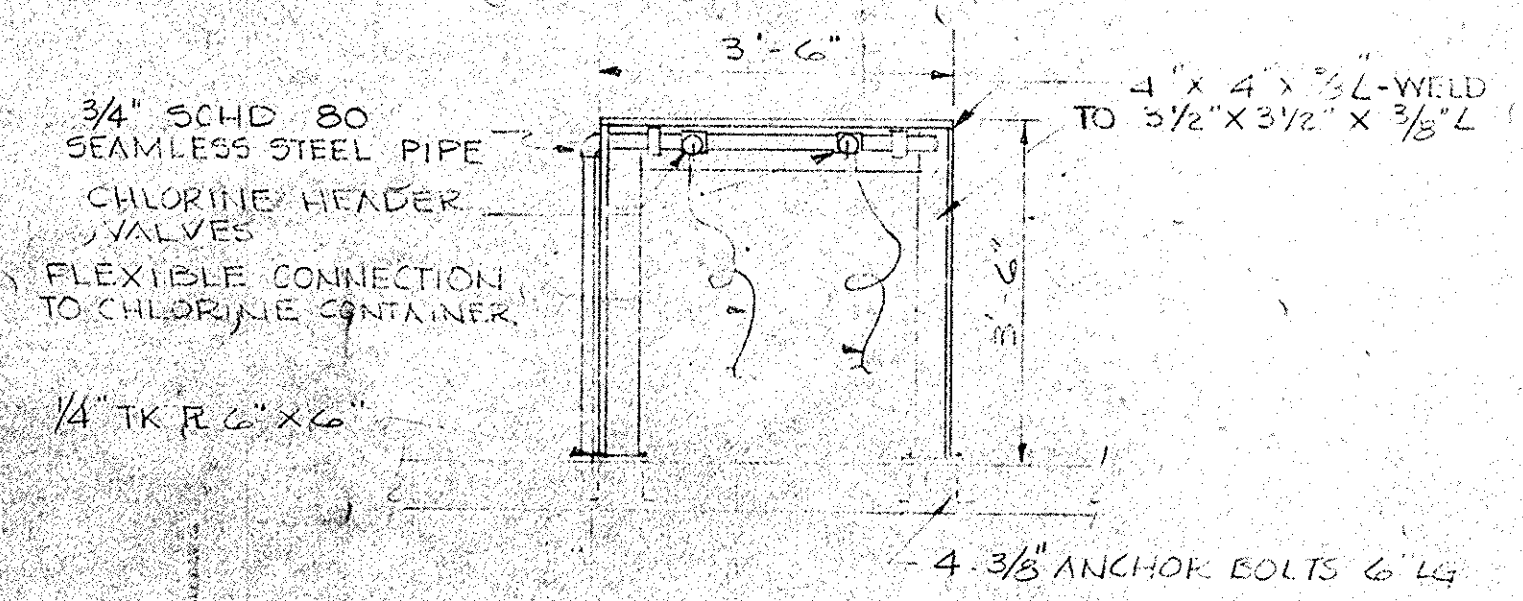
LEGEND
C.W. - COLD WATER
H.W. - HOT WATER
-X- GLOBE VALVE



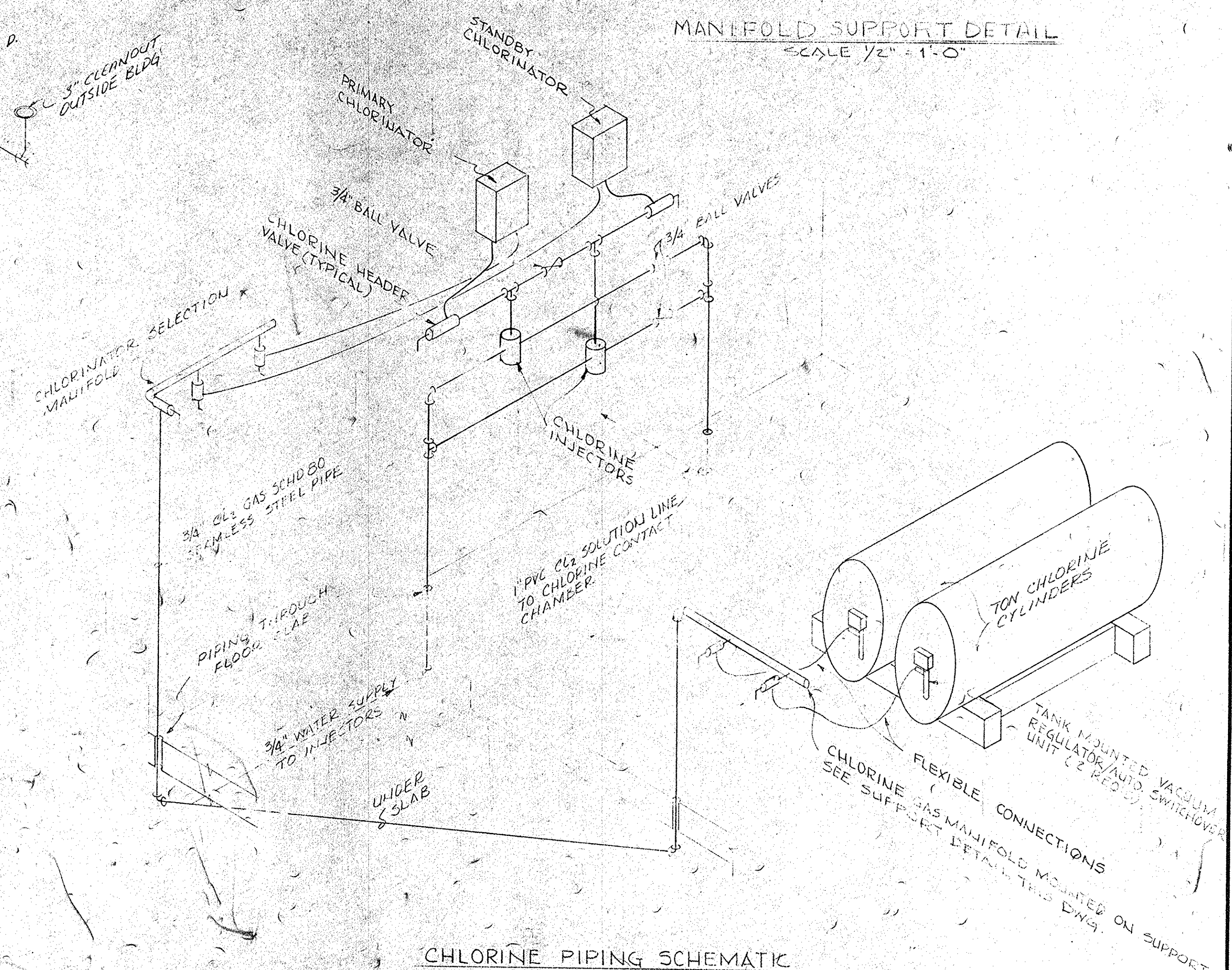
SANITARY PIPING SCHEMATIC
N.T.S.



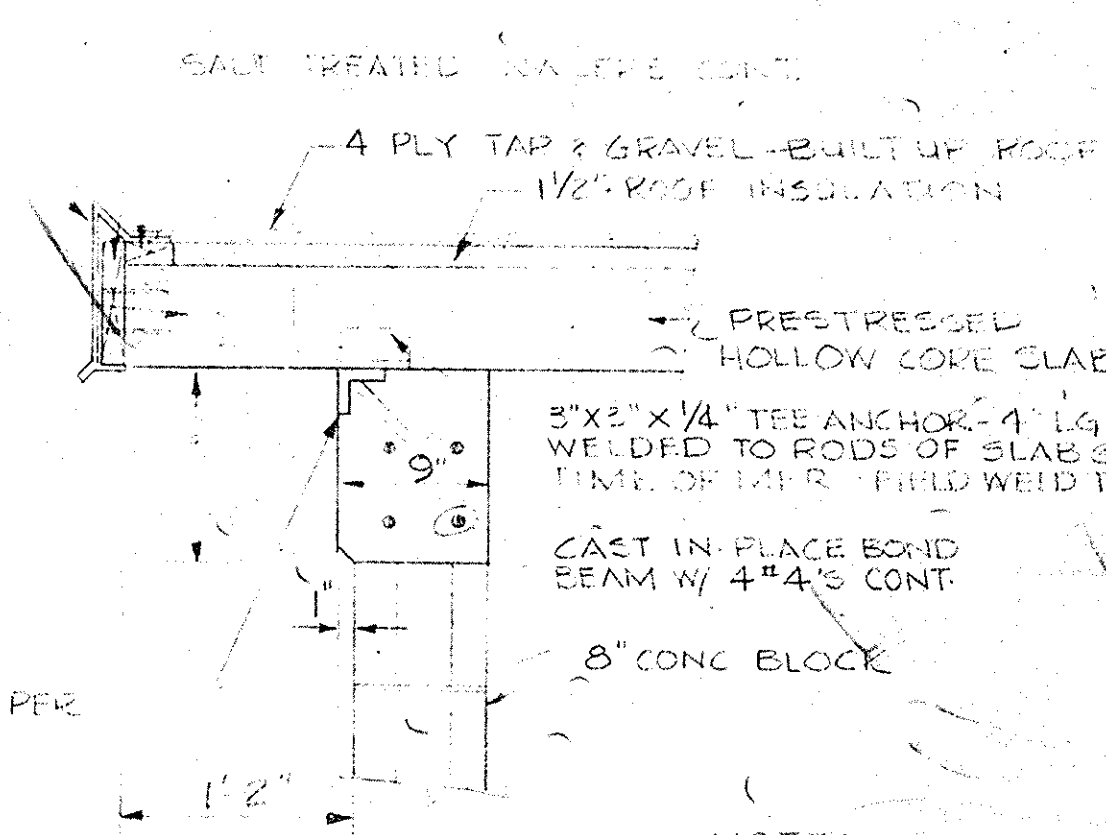
EXHAUST FAN DETAIL
SCALE: 1/4" = 1'-0"



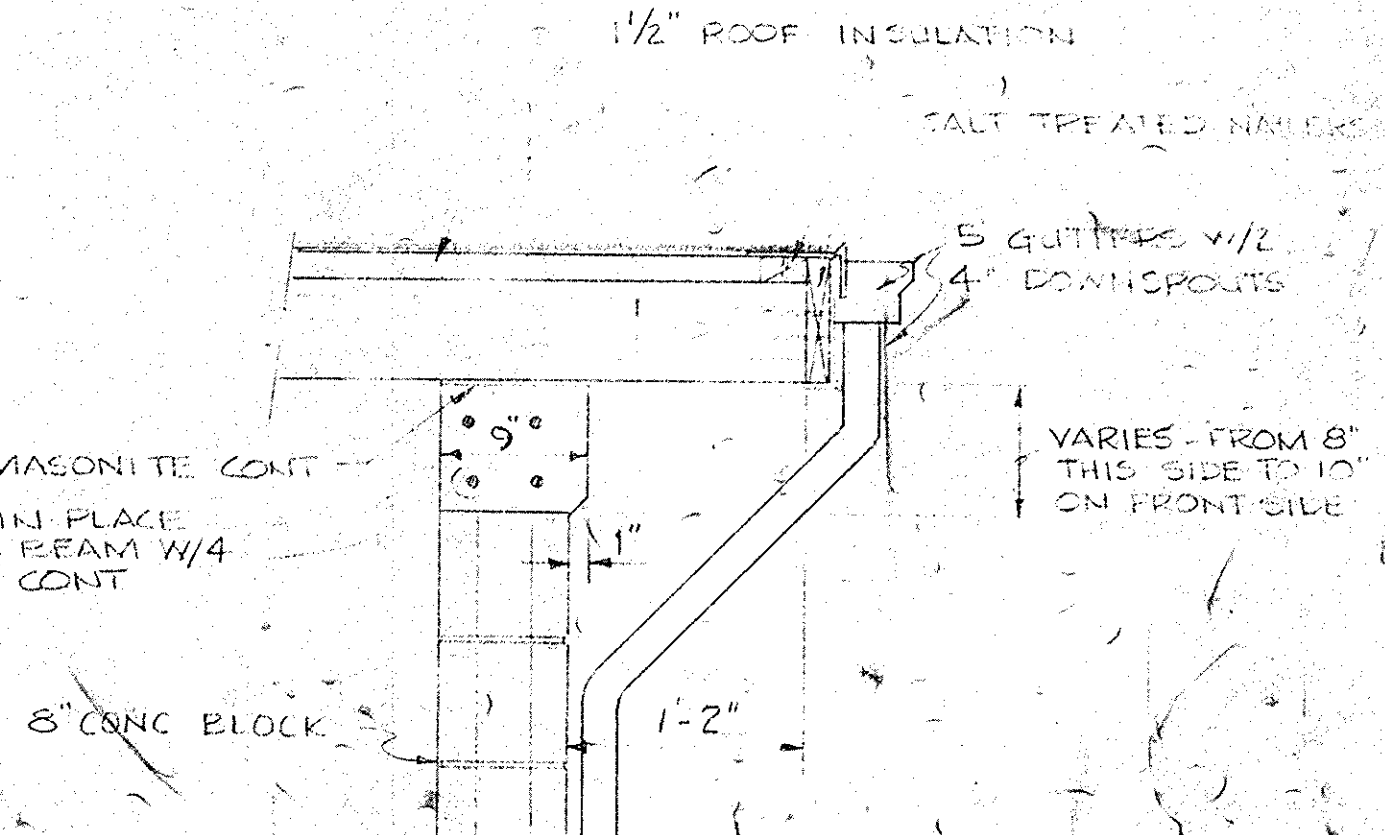
MANIFOLD SUPPORT DETAIL
SCALE: 1/2" = 1'-0"



CHLORINE PIPING SCHEMATIC
N.T.S.



DETAIL "A"
N.T.S.



DETAIL "B"
N.T.S.

NOTE:
NAILERS ON OTHER TWO SIDES
OF BUILDING TO BE ATTACHED W/ 3/8"
TODGE BOLTS @ 2'-0" O.C. THROUGH
TO FIRST HOLLOW CORE FROM
SLAB EDGE

NO.	DATE	BY	REVISION

HARWOOD BEEBE
ENGINEERS
CONSULTANTS
SPARTANBURG, S.C. FLORENCE, S.C. COLUMBIA, S.C.
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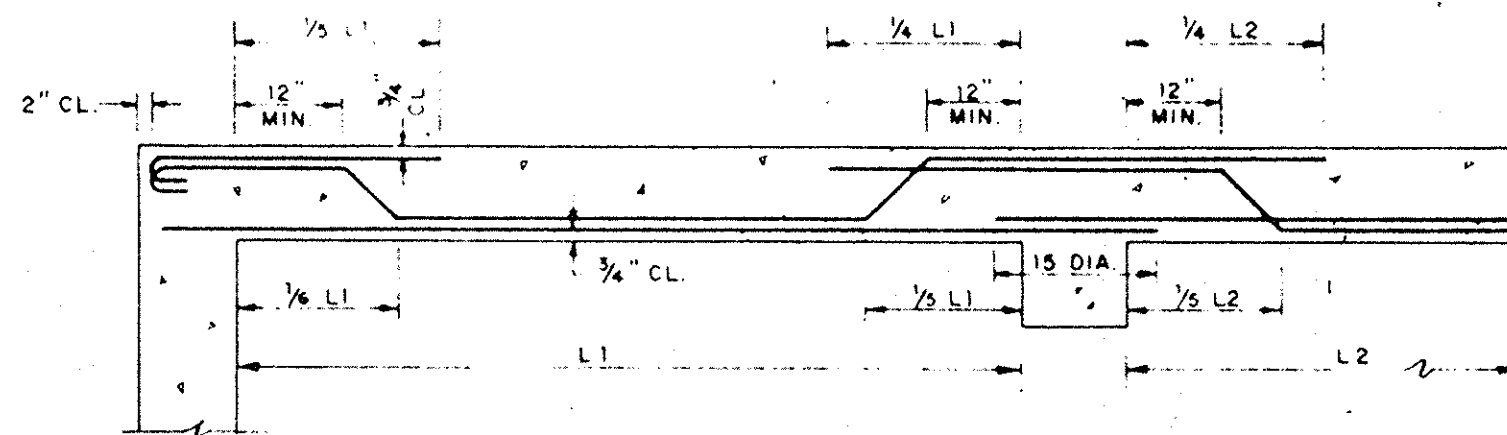
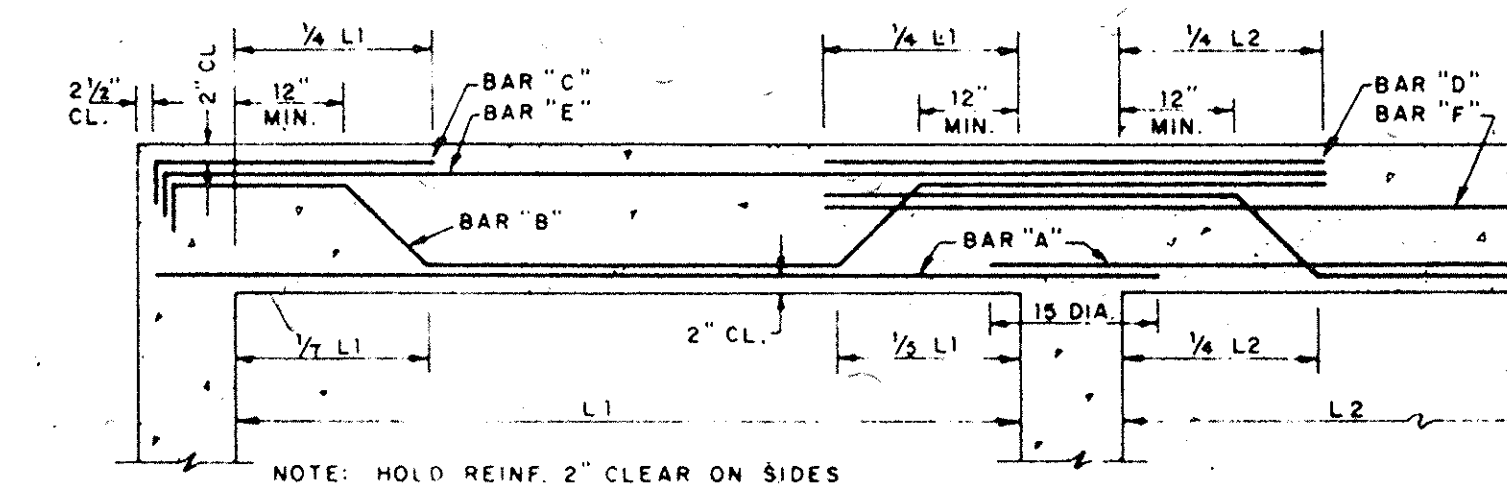
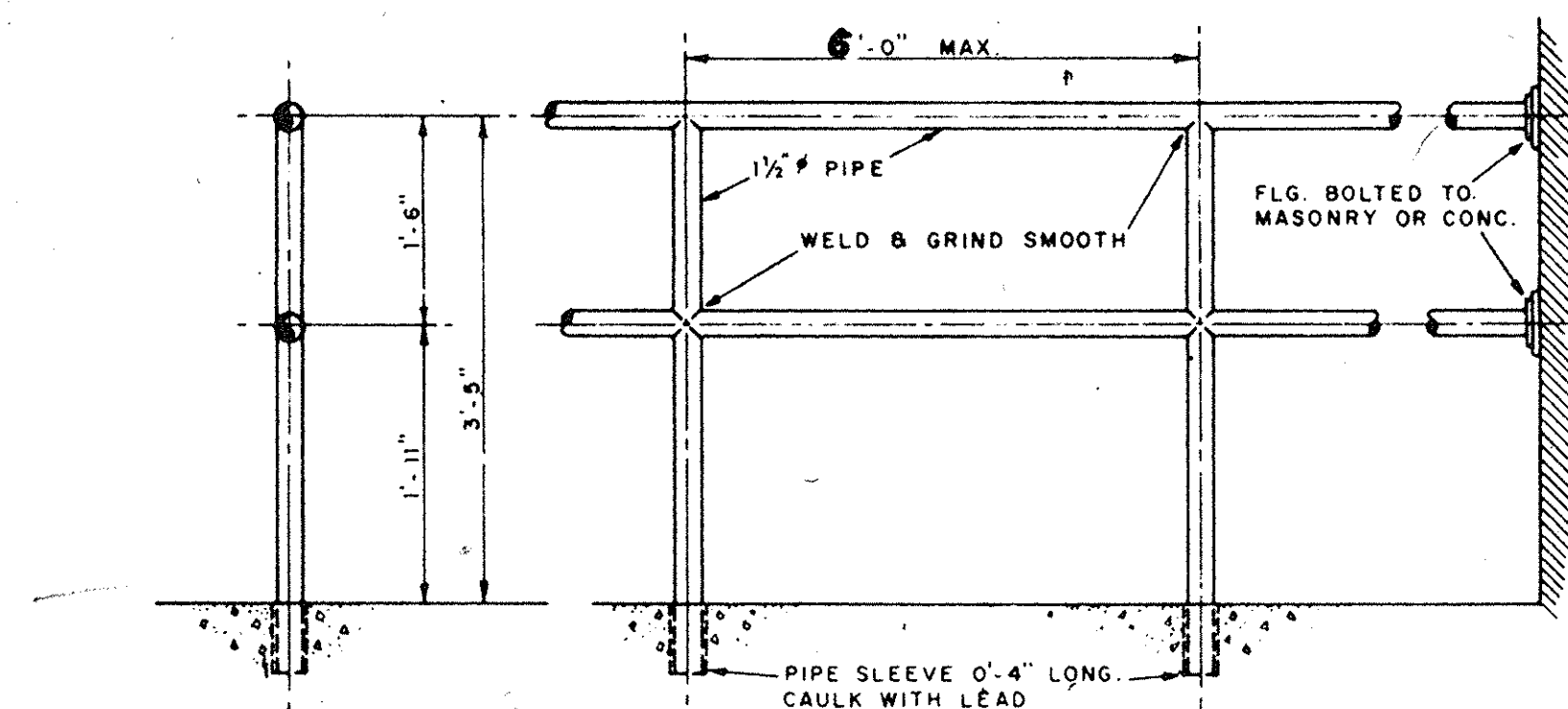
SCALE: AS SHOWN
DATE: SEPT. 1977
DRAWN BY: D.A.N.
CHECKED BY: J.O.T.
APPROVED BY: H.S.M.

PROJECT NO.
EPA C450486-01
JOB NO.
C-374
FILE NO.

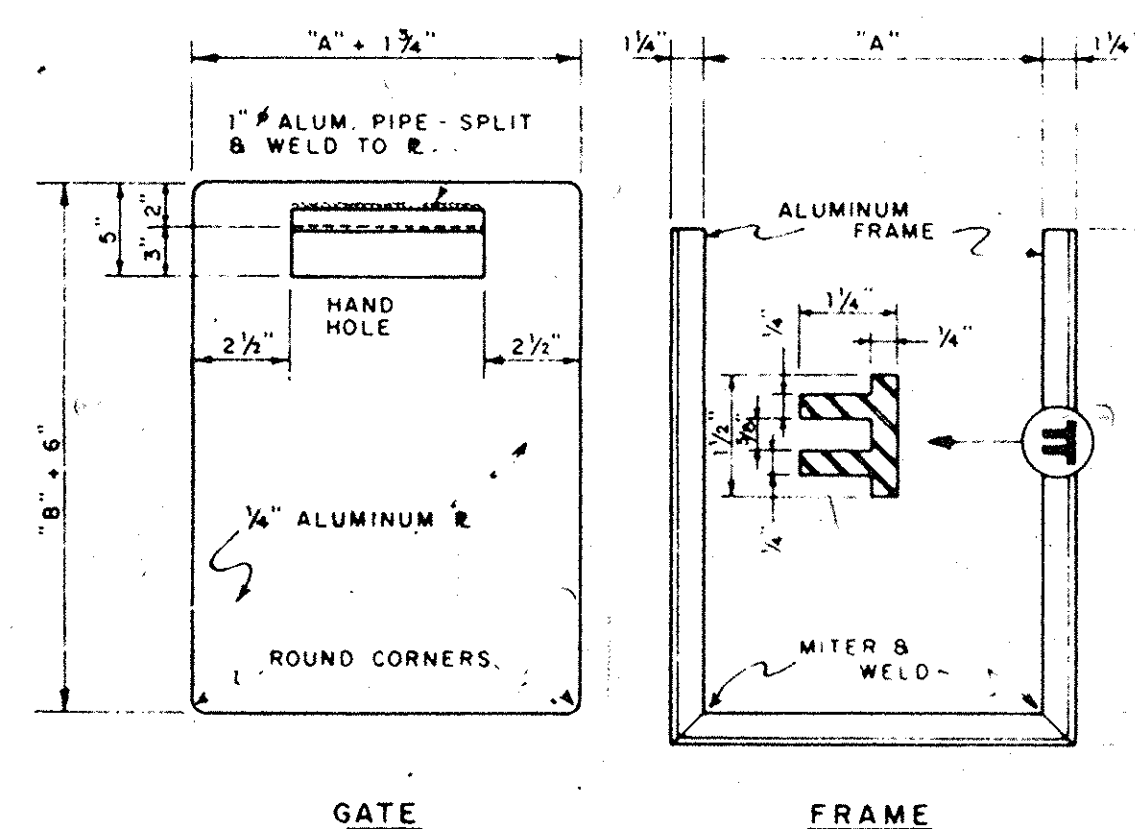
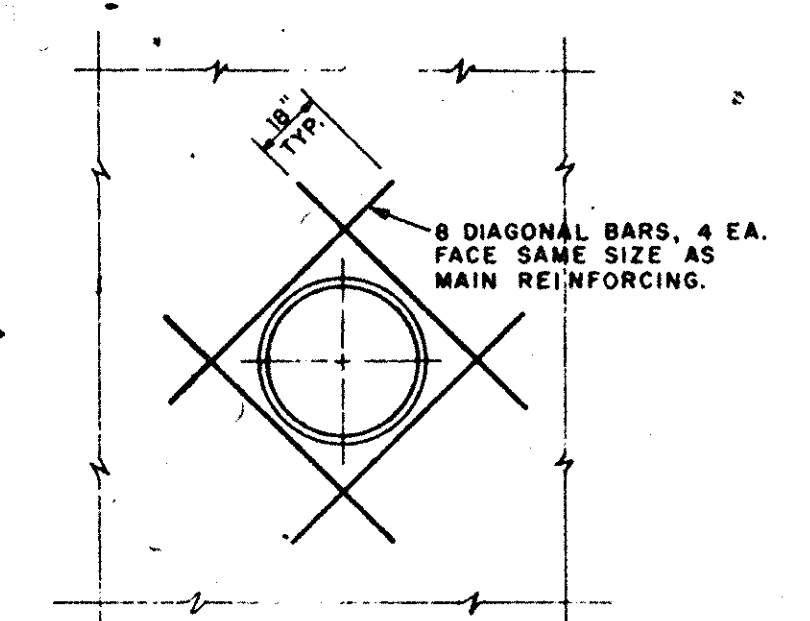
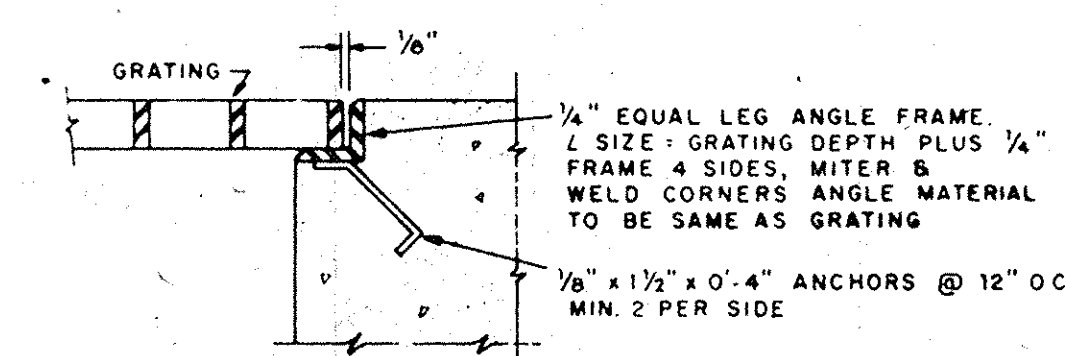
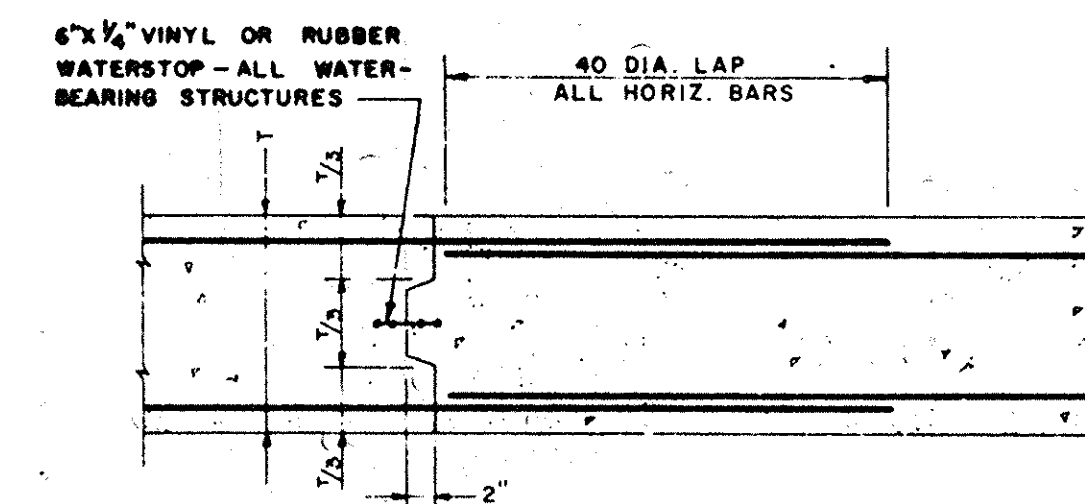
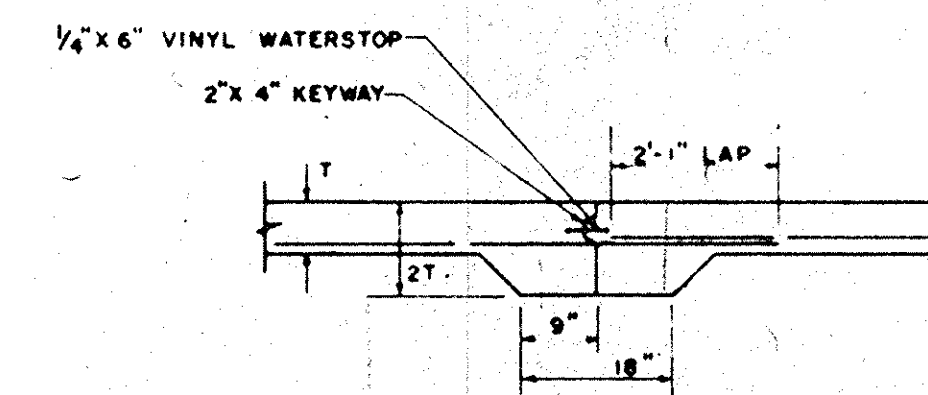
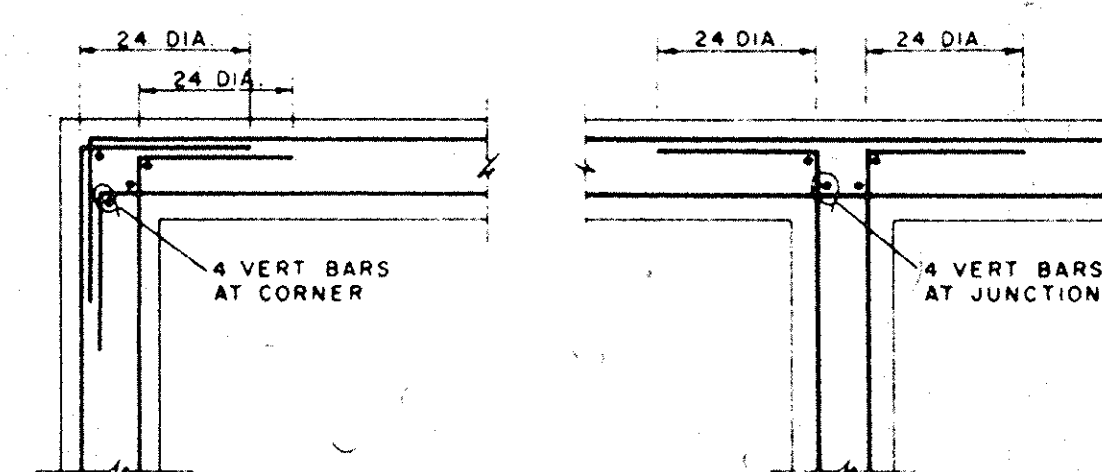
CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS
PIPING SCHEMATICS &
MISCELLANEOUS DETAILS

DRAWING NO. 23 OF 28
SEQUENCE NO. 23 OF 28
22-11-03

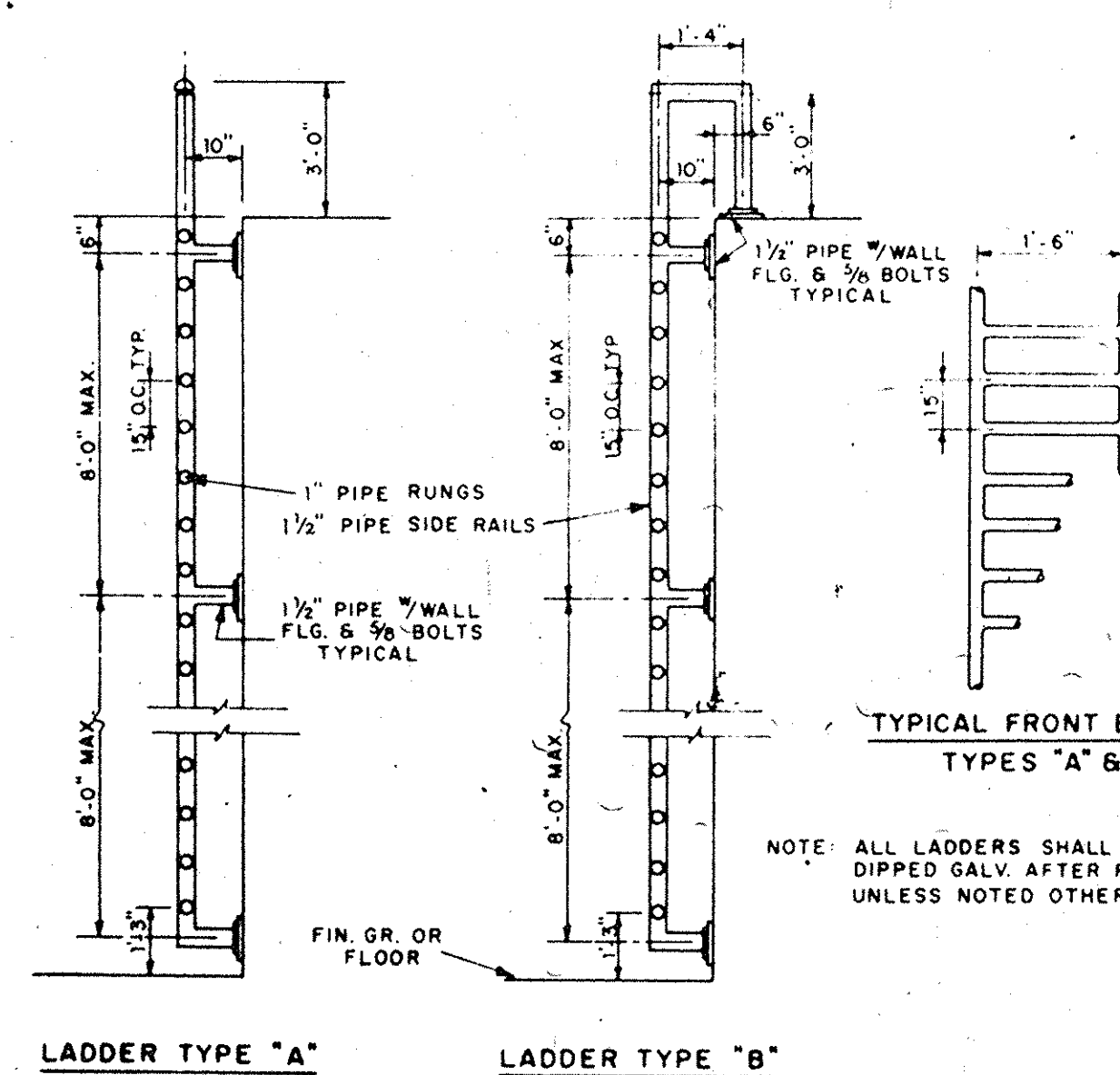
RECORD DRAWINGS
35-002-023/35
DIV. II



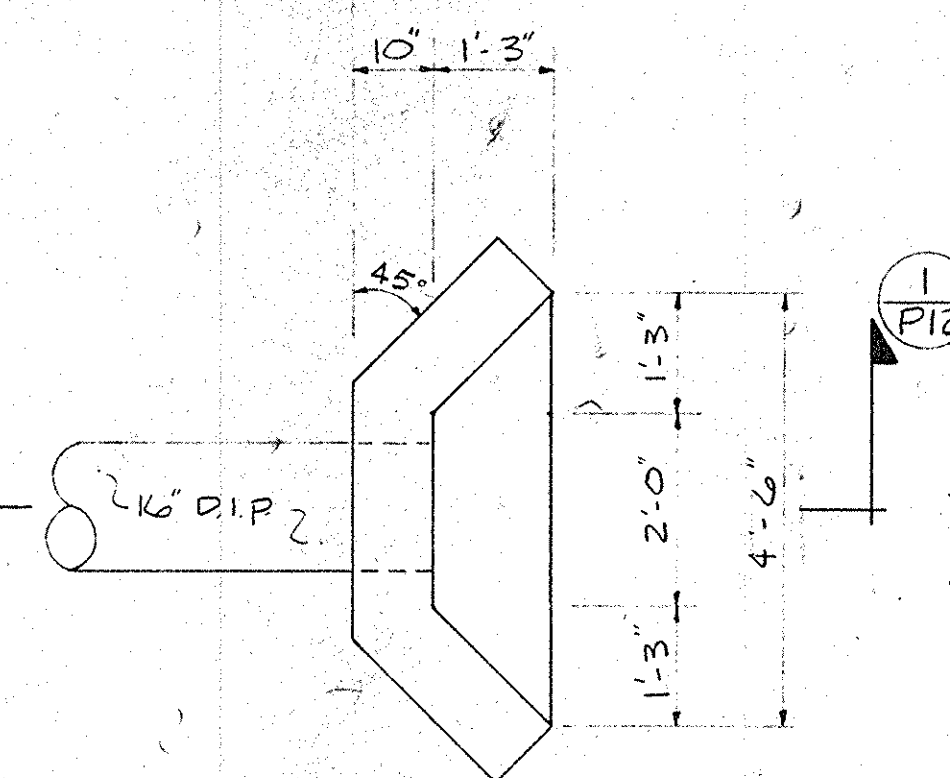
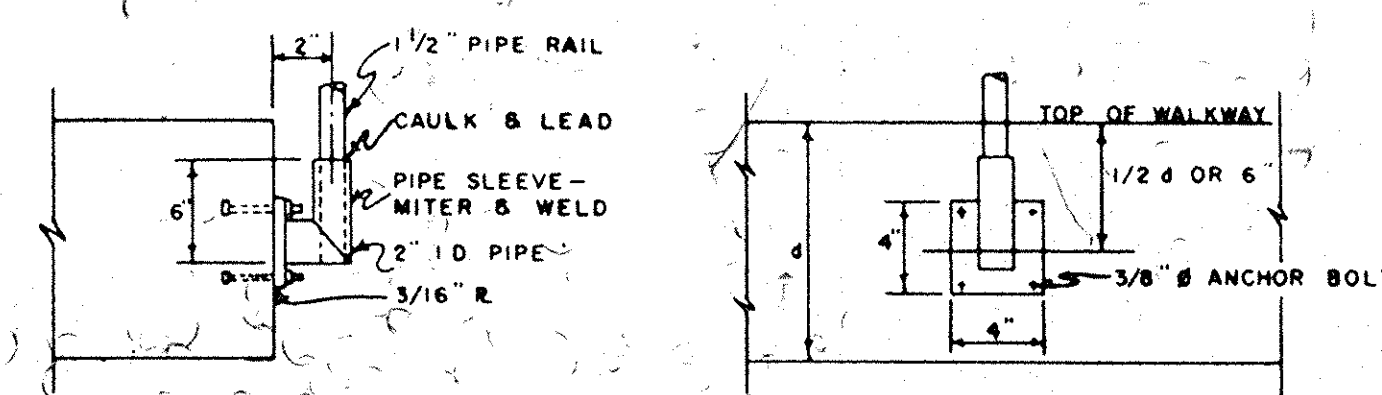
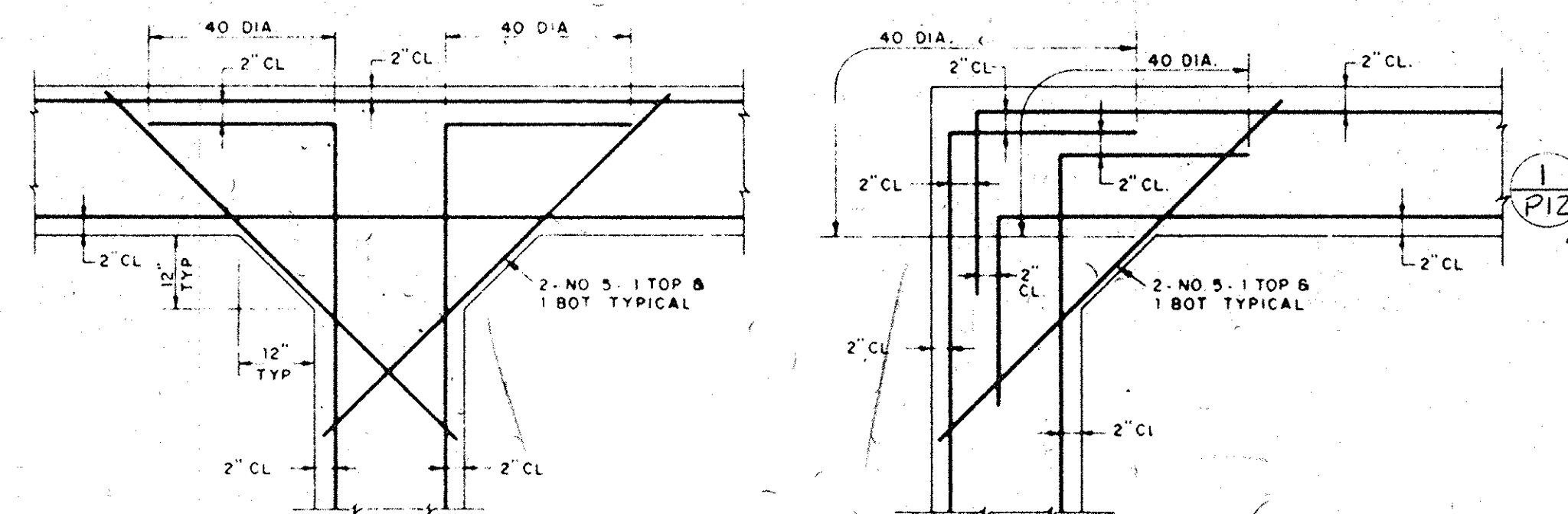
TYPICAL BEAM & SLAB BENDING DETAILS

[illegible]

ALUMINUM STOP GATE & FRAME DETAIL



PIPE LADDER DETAILS



HEADWALL FOR EFFLUENT
PIPE - PLAN
SCALE: $\frac{1}{2}" = 1'-0"$

NOTE DETAILS, MATERIALS, AND ARRANGEMENTS SHOWN HEREON
APPLY WHEREVER APPLICABLE ITEMS ARE SHOWN OR BILLED
ON DRAWINGS, UNLESS OTHERWISE NOTED.

GENERAL NOTES

REINFORCING BARS IN SLABS SHALL BE HELD $\frac{3}{4}$ " CLEAR FROM FACE OF CONC. UNLESS OTHERWISE NOTED.

REINF. BARS SHALL BE LAPPED 40 DIA. AT SPLICES AND SPLICES SHALL BE STAGGERED.

DOWELS SHALL EXTEND 40 DIA. INTO ADJOINING CONC.

COLUMN DOWELS SHALL EXTEND 24 DIA. INTO COLUMNS.

HORIZONTAL REINF. IN WALLS SHALL RETURN 24 DIA. INTO ADJOINING WALLS AT JUNCTIONS AND CORNERS.

REINF. BARS IN WALLS AND BEAMS SHALL BE HELD 2" CLEAR FROM FACE OF CONC. UNLESS OTHERWISE NOTED.

REINF. BARS IN FOOTINGS AND SLABS ON EARTH SHALL BE HELD 3" CLEAR FROM FACE OF CONC.

ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED $\frac{3}{4}$ ".

DESIGN STRESSES

CONCRETE:

COMPRESSIVE STRENGTH AT 28 DAYS	3,000 PSI
DESIGN STRESS IN FLEXURE	1,350 PSI

REINFORCING STEEL:

WATER BEARING STRUCTURES- TENSION DUE TO BENDING	18,000 PSI
NON-WATER BEARING STRUCTURES- TENSION DUE TO BENDING	20,000 PSI
DIRECT TENSION	14,000 PSI

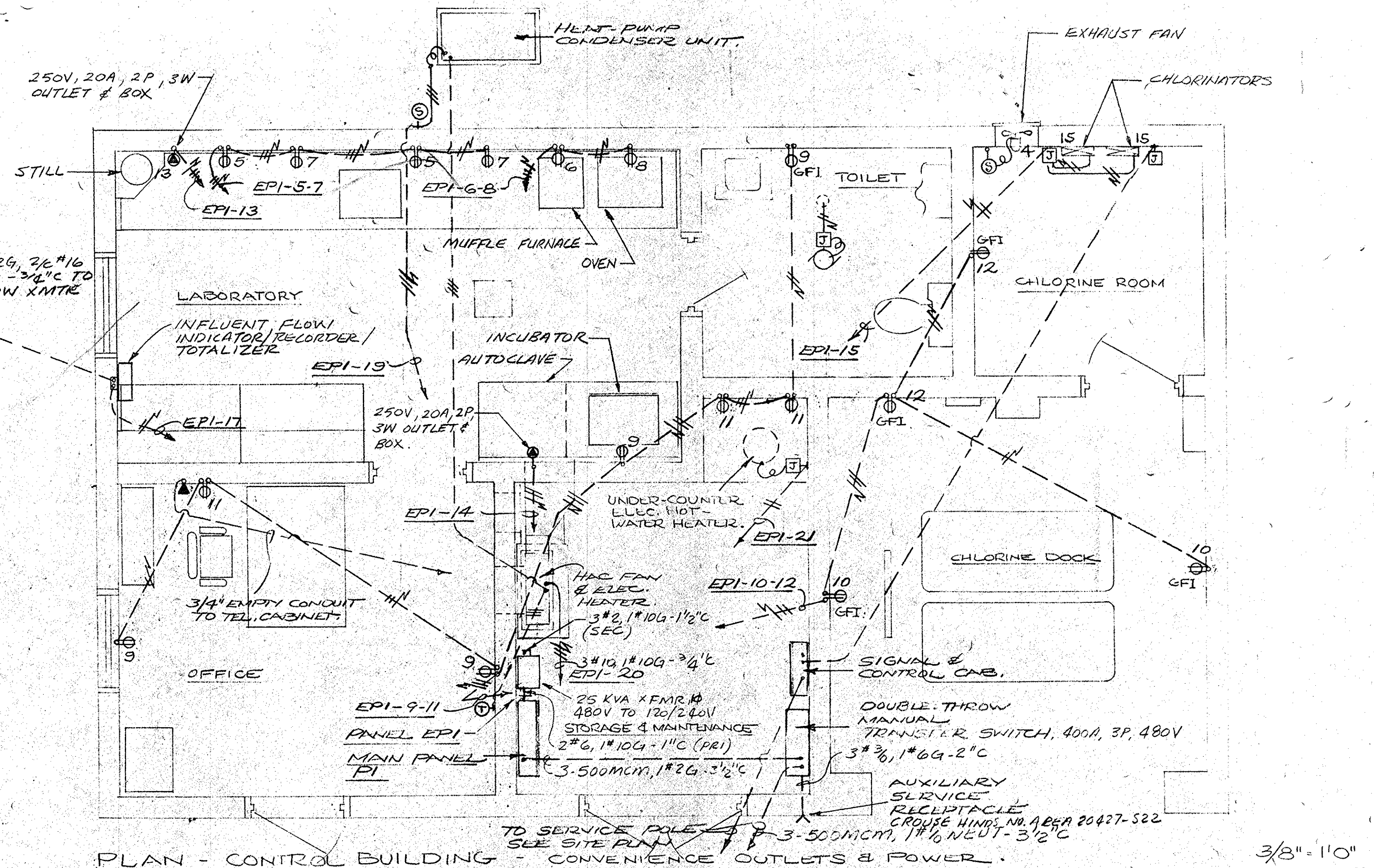
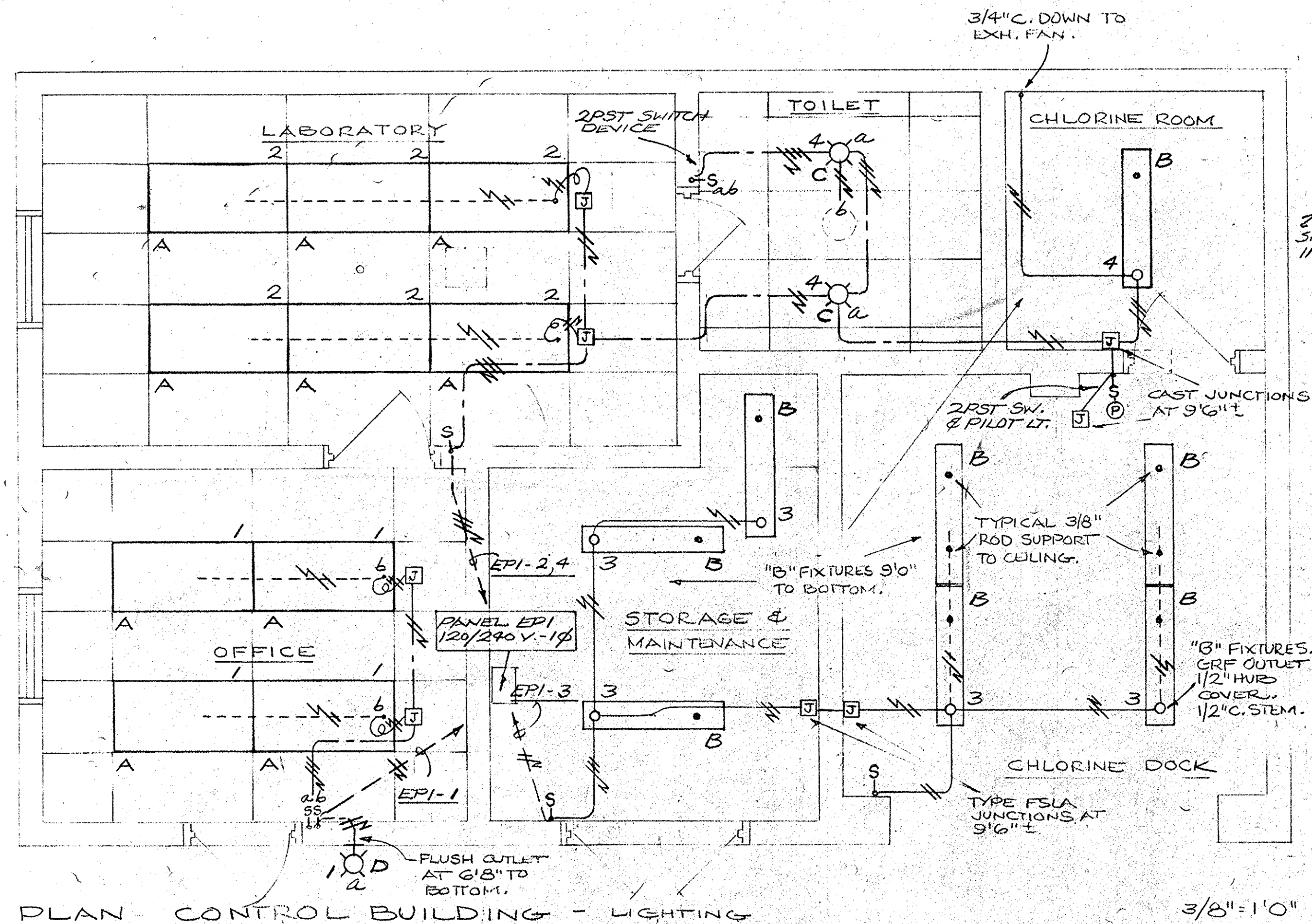
RECORD DRAWINGS.

35-002-024/35 (2)

CITY OF CONWAY, S.C.
WASTE FACILITIES IMPROVEMENTS
STANDARD STRUCTURAL AND
MISCELLANEOUS DETAILS

SEQUENCE
NO. 4 OF 28
DRAWING
NO. 3 OF 13

22-11-03



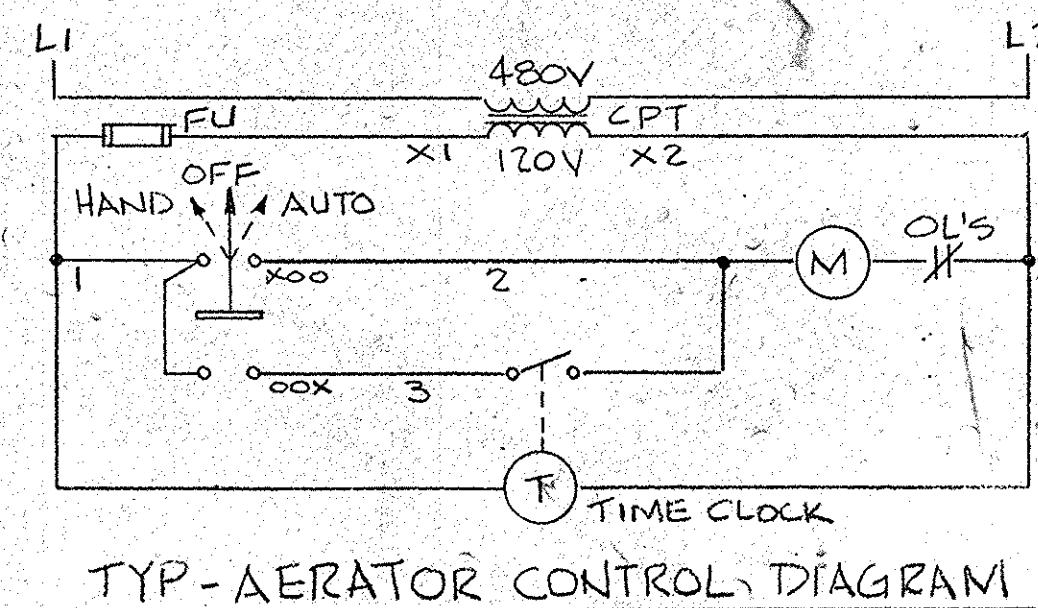
PLAN - CONTROL BUILDING - CONVENIENCE OUTLETS & POWER.
REFER TO SITE PLAN, DRAWING NO. E2.

DRAWING LEGEND & SYMBOLS:

- (10) MOTOR LOCATION. HORSEPOWER INDICATED.
- CIRCUIT TERMINAL CONNECTION IN FLEXIBLE LIQUID-TIGHT METAL CONDUIT, MINIMUM 3/4" SIZE.
- RACEWAY RUN EXPOSED AT CEILINGS & ON WALLS, EXCEPT AS NOTED. RIGID STEEL CONDUIT, 3/4" UNLESS OTHERWISE NOTED. NO. 12 CONDUCTORS OR AS INDICATED.
- RACEWAY RUN CONCEALED ABOVE CEILING CONSTRUCTIONS & TURNED DOWN CONCEALED IN WALL OR PARTITIONS. RIGID STEEL CONDUIT, 3/4" MINIMUM SIZE, NO. 12 CONDUCTORS EXCEPT AS NOTED.
- RACEWAY RUN UNDERGROUND, OR UNDER FLOOR SLABS, CONCEALED. MINIMUM SIZE 3/4" RIGID STEEL CONDUIT, NO. 12 CONDUCTORS EXCEPT AS NOTED.
- INCANDESCENT TYPE LIGHTING FIXTURE, WALL MOUNTED OVER FLUSH OUTLET; HEIGHT INDICATED.
- INCANDESCENT TYPE LIGHTING FIXTURE ON CEILING OUTLET.
- FLUORESCENT TYPE LIGHTING FIXTURE, CEILING SURFACE MOUNTED OR SUSPENDED AS NOTED.
- FLUORESCENT TYPE LIGHTING FIXTURE, CEILING RECESSED, FLEX. METAL CONDUIT TO OUTLET ABOVE CEILING.
- FLUSH MOUNTED SWITCH WIRING DEVICE, 20A, 1P, 120V, MOUNTING HEIGHT 48" OR AS NOTED.
- WALL SURFACE MID. SWITCH DEVICE, CAST SURFACE OUTLET, AT 48" OR AS NOTED.
- FLUSH WALL OUTLET AT 16" EXCEPT AS NOTED, DUPLEX 2-WIRE 3-WIRE GROUNDING RECEPTACLE DEVICE, 15A AT 120V.
- DUPLEX RECEPTACLE, GROUND-FAULT INTERRUPTER TYPE, AS SPECIFIED.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION
A	2' x 4' FLUORESCENT TROFFER WITH PRISMATIC ACRYLIC LENS, 120V BALLAST, 4-40 WATT, F40T12/CW LAMPS, SYLVANIA NO. KFW-BD-4404 OR EQUAL.
B	4' INDUSTRIAL TYPE FLUORESCENT FIXTURE WITH SLOTTED REFLECTORS (10% UPLIGHT), 120V BALLAST, 2-40 WATT F40T12/CW LAMPS, SYLVANIA NO. PV10-2404 OR EQUAL.
C	RECESSED INCANDESCENT FIXTURE WITH WHITE ALBALITE GLASS LENS & 150 WATT A-21 LAMP, LIGHTOLIER NO. 7303 OR EQUAL.
D	WALL MOUNTED OUTDOOR INCANDESCENT WITH 100 WATT A-19 LAMP, HOLOPHANE NO. 400 OR EQUAL.
E	WALL MOUNTED VAPORTIGHT INCANDESCENT FIXTURE WITH GLOBE & 30° ANGLE REFLECTOR, 150 WATT A-21 LAMP, CROUSE HINDS NO. VXBFF 25GRA OR EQUAL.
F	LOW PRESSURE SODIUM AREA LUMINAIRE WITH 135 WATT LAMP, 480V, 10' BALLAST & PHOTO-ELEC. CONTROL - NORELCO NO. 31665 WITH SOX-135 LAMP, OR EQUAL, MOUNTED ON 30° TAPERED ALUMINUM POLE WITH 4' MOUNTING ARM - HARCO NO. 21-562 OR EQUAL.



1A	2A	3A
MAIN BREAKER 200A / 2P CIRC. BREAKER	AERATOR #2A SIZE 1 15A / 3P C.B. CPT & H-O-A	AERATOR #1A SIZE 2 70A / 3P C.B. CPT & H-O-A
1B	2B	3B
PAR SCREEN 20A / 3P C.B.	AERATOR #2B SIZE 1 15A / 3P C.B. CPT & H-O-A	AERATOR #1B SIZE 2 70A / 3P C.B. CPT & H-O-A
1C	2C	3C
YARD LIGHTS 15A / 2P C.B.	AERATOR #2C SIZE 1 15A / 3P C.B. CPT & H-O-A	AERATOR #1C SIZE 2 70A / 3P C.B. CPT & H-O-A
1D	2D	3D
SPACE	AERATOR #2D SIZE 1 15A / 3P C.B. CPT & H-O-A	TIME CLOCK COMPARTMENT, EIGHT (8) TORQ # 200 (OR EQUAL) WITH SPRING WOUND RESERVE
1E	2E	3E
SPACE	SPACE	SPACE

SCHEDULE
MOTOR CONTROL CENTER MCC-1
(SEE SPECS)

RECORD DRAWINGS

NO.	DATE	BY	REVISION

lbcgw

LBC&W HARWOOD BEEBE
ENGINEERS
CONSULTANTS
SPARTANBURG, S.C. FLORENCE, S.C. COLUMBIA, S.C.
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SCALE: AS NOTED
DATE: SEPT., 1977
DRAWN BY: CAR
CHECKED BY: R.F.H.
APPROVED BY: H.S.M.

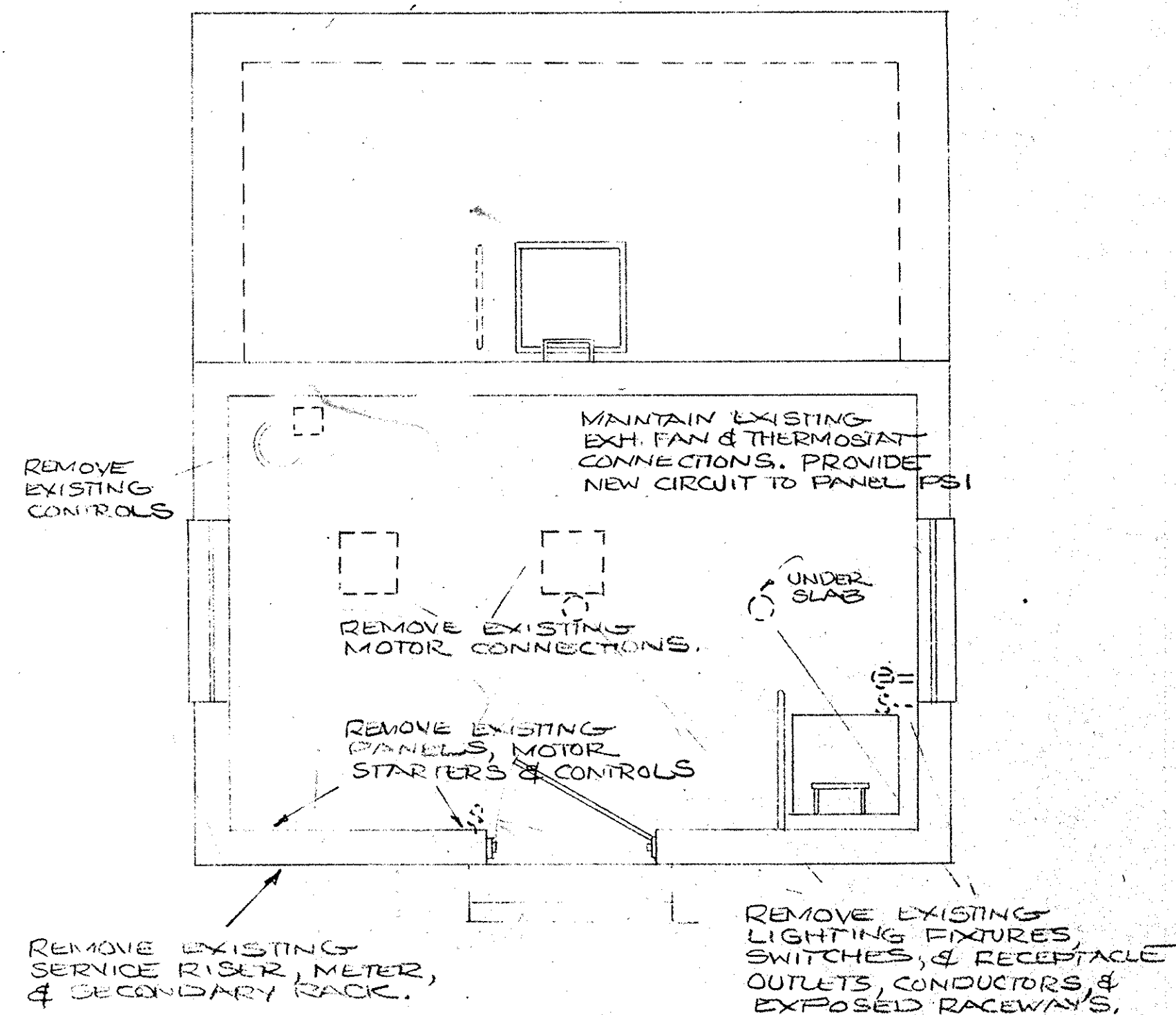
PROJECT NO. EPA C450486-01
JOB NO. C-374
FILE NO.

CITY OF CONWAY
WASTE FACILITIES IMPROVEMENTS
CONTROL BUILDING ELECTRICAL PLANS

DRAWING NO. E1
SEQUENCE NO. 25 OF 28

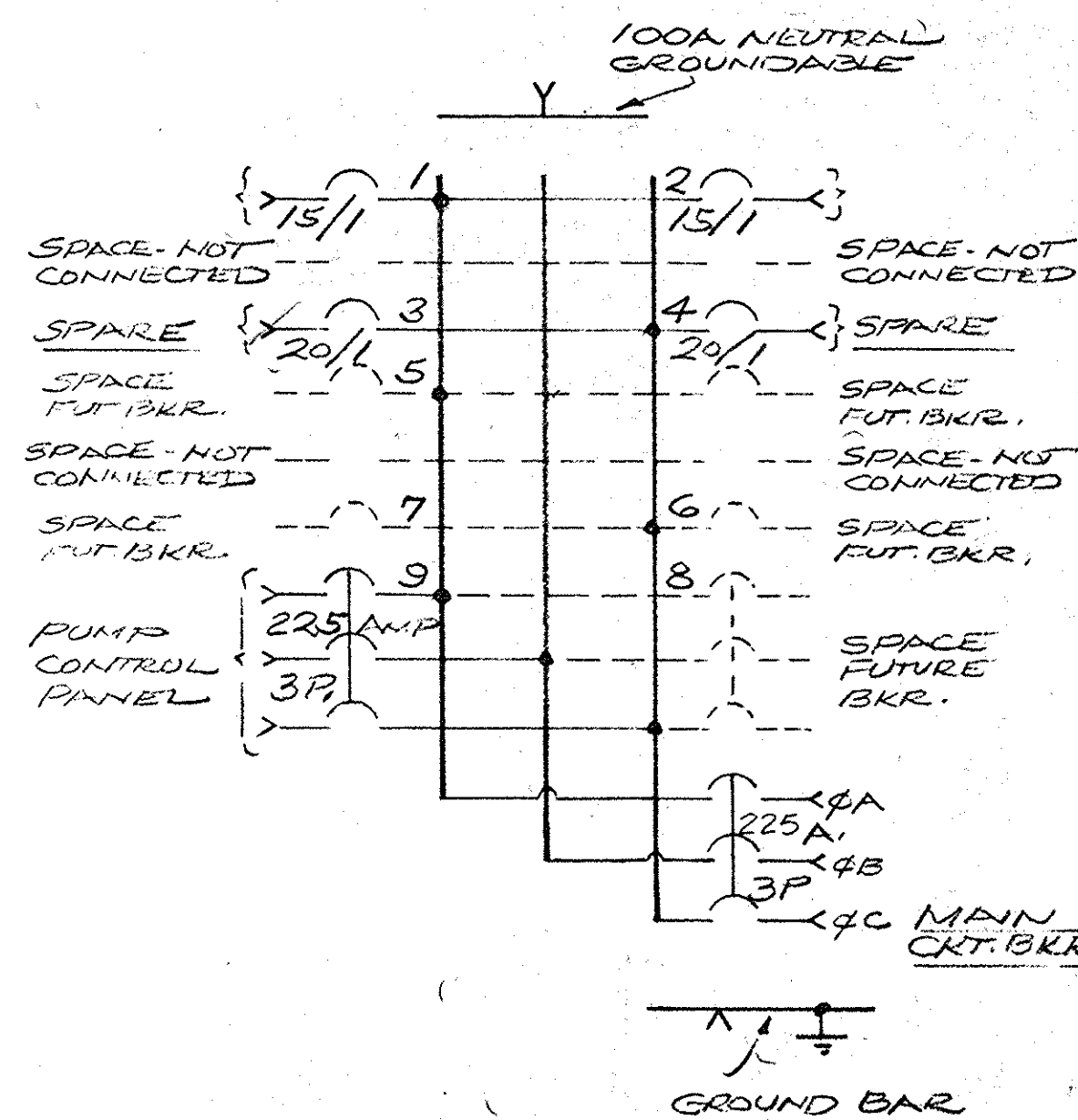
35-002-025/35

22-11-03

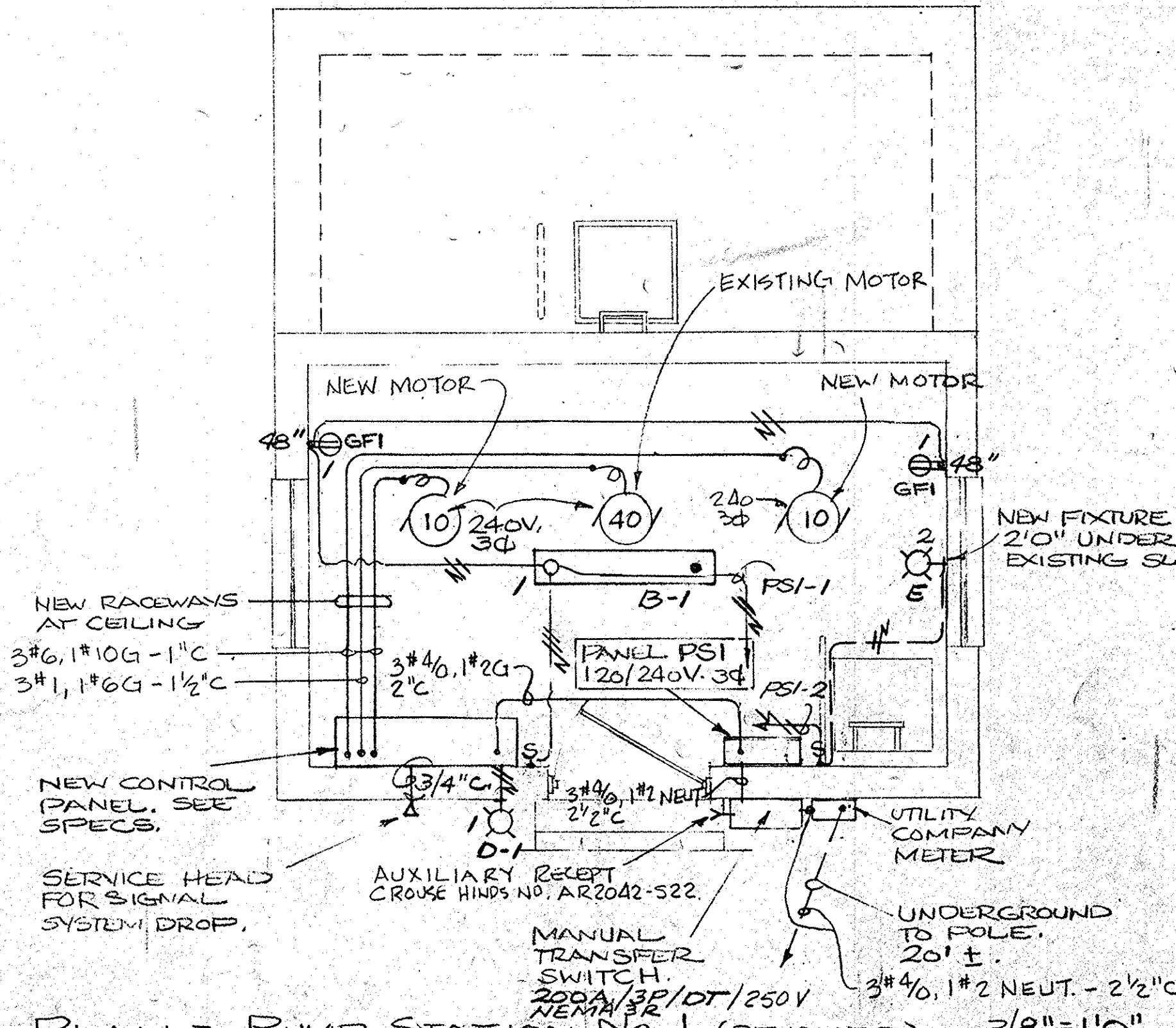


PLAN - EXISTING PUMP STATION No. 1: 3/8"=1'0"
VERIFY EXISTING CONDITIONS AT SITE. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, RACEWAY, AND CONDUCTORS NOT REQUIRED TO BE REUSED.

PANEL PSI - PUMP STA. NO. 1.
120/240V. 3Φ-4 WIRE (DELTA), 60HZ. A.C.
SURFACE MTD. CABINET. NEMA 12.

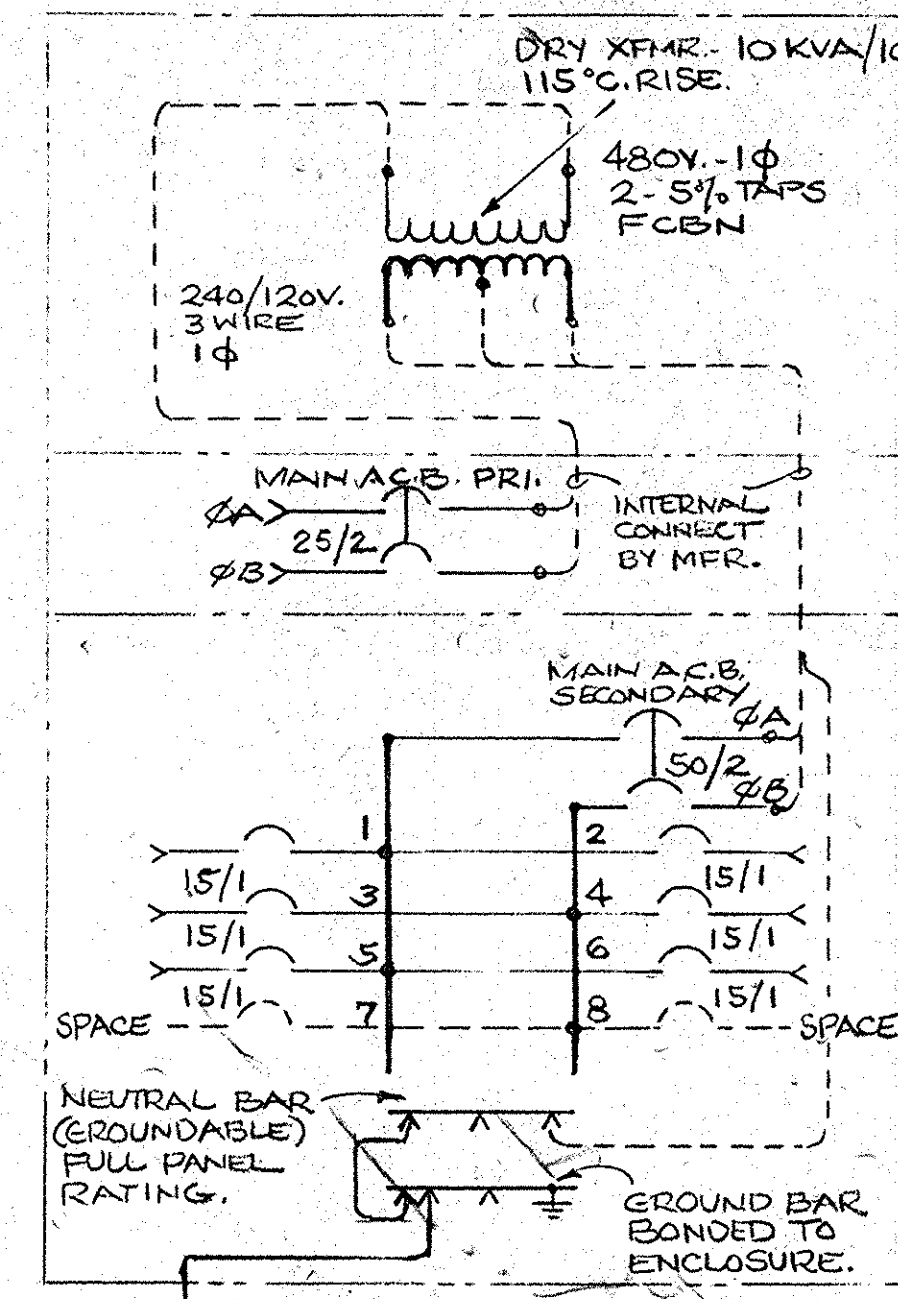


NOTE: PHASE "B" CONNECTED TO "HIGH" VOLTAGE PHASE CONDUCTOR ON SERVICE OF 120/240V. DELTA WITH CENTER NEUTRAL. PHASE "B" SHALL NOT BE CONNECTED TO ANY SINGLE PHASE LOADS.



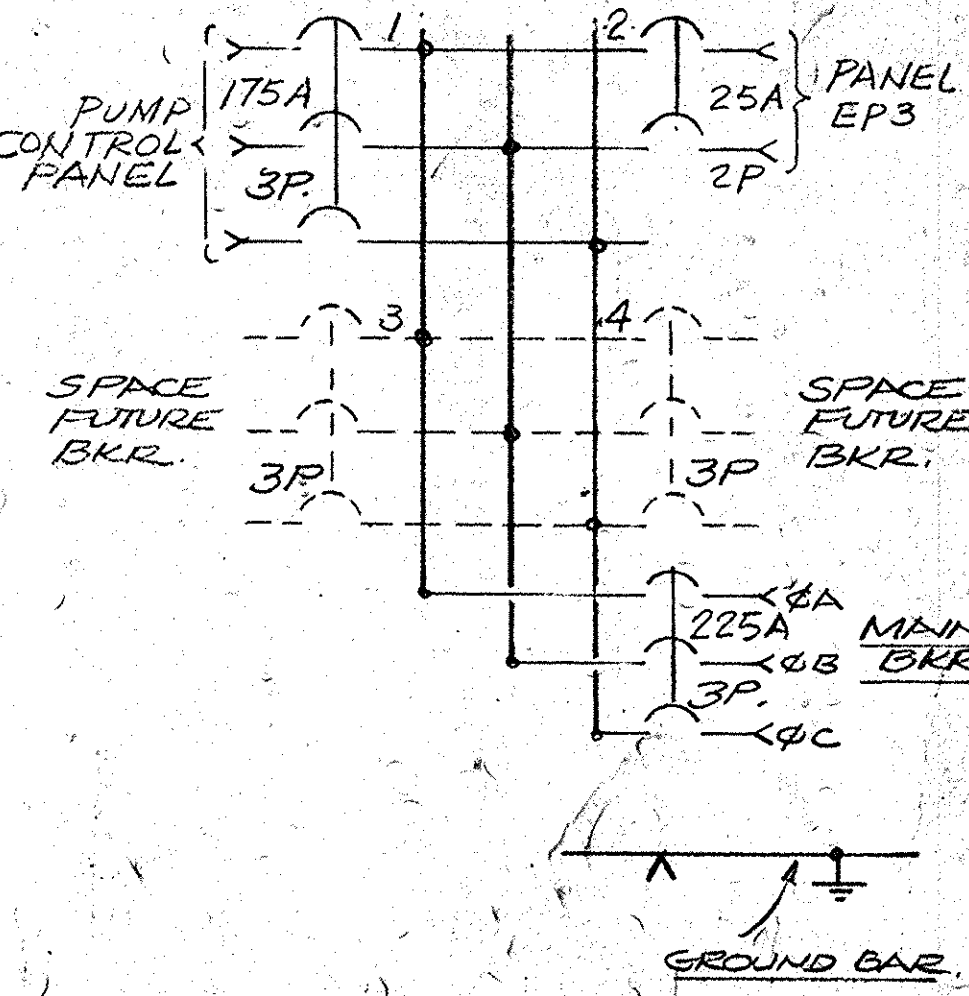
PLAN - PUMP STATION No. 1 (RENOVATED) 3/8"=1'0"
NEW ELECTRICAL INSTALLATION REQUIREMENTS.

PANEL EP3 - PUMP STA. NO. 3

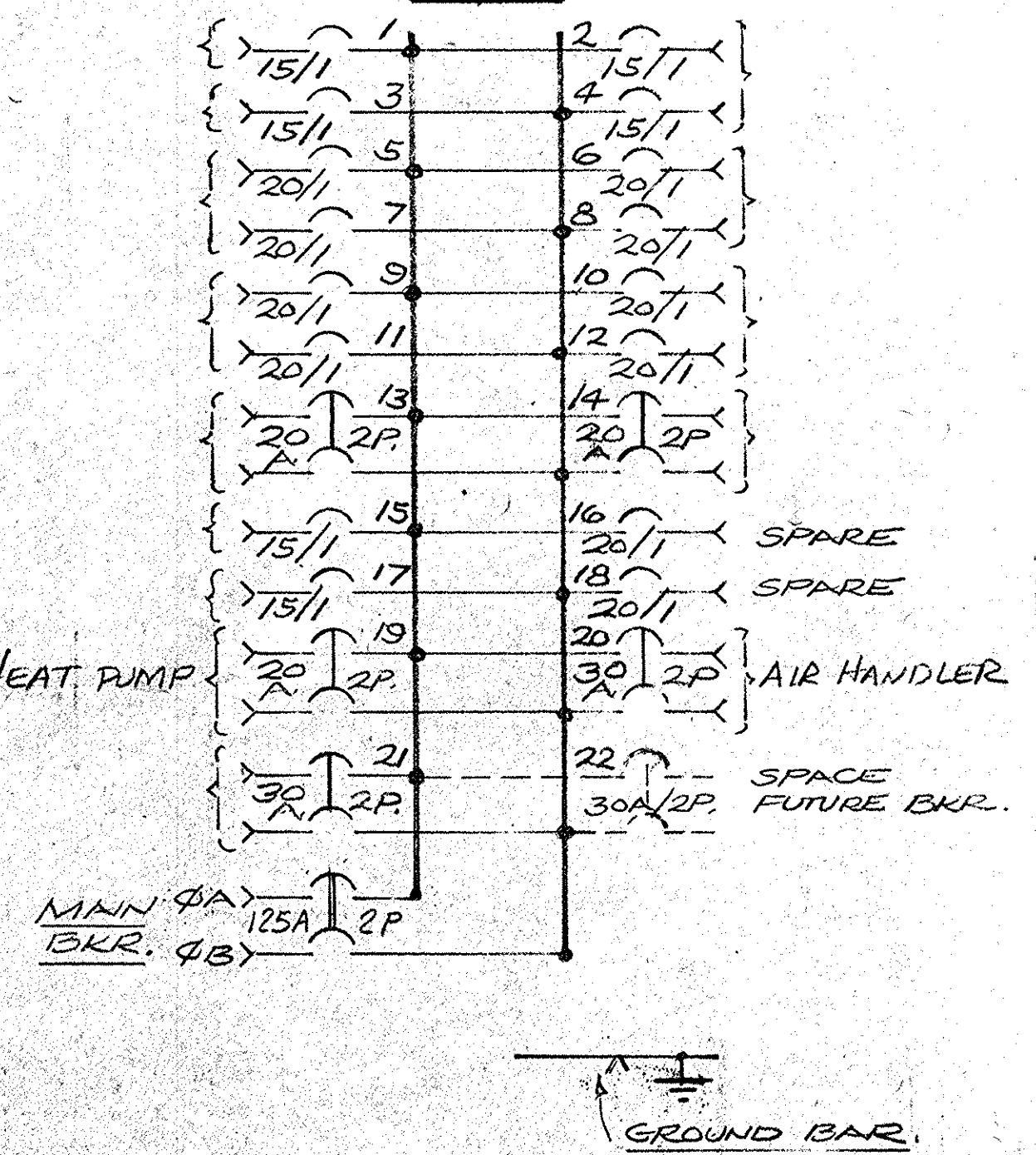


TYPICAL FOR PANEL EP3
COMBINATION COORDINATED POWER UNIT
SURFACE MTD. - NEMA 3R ENCLOSURE.
REFER TO PLANS FOR BRANCH CIRCUITS CONNECTED; OTHERS SPARE.

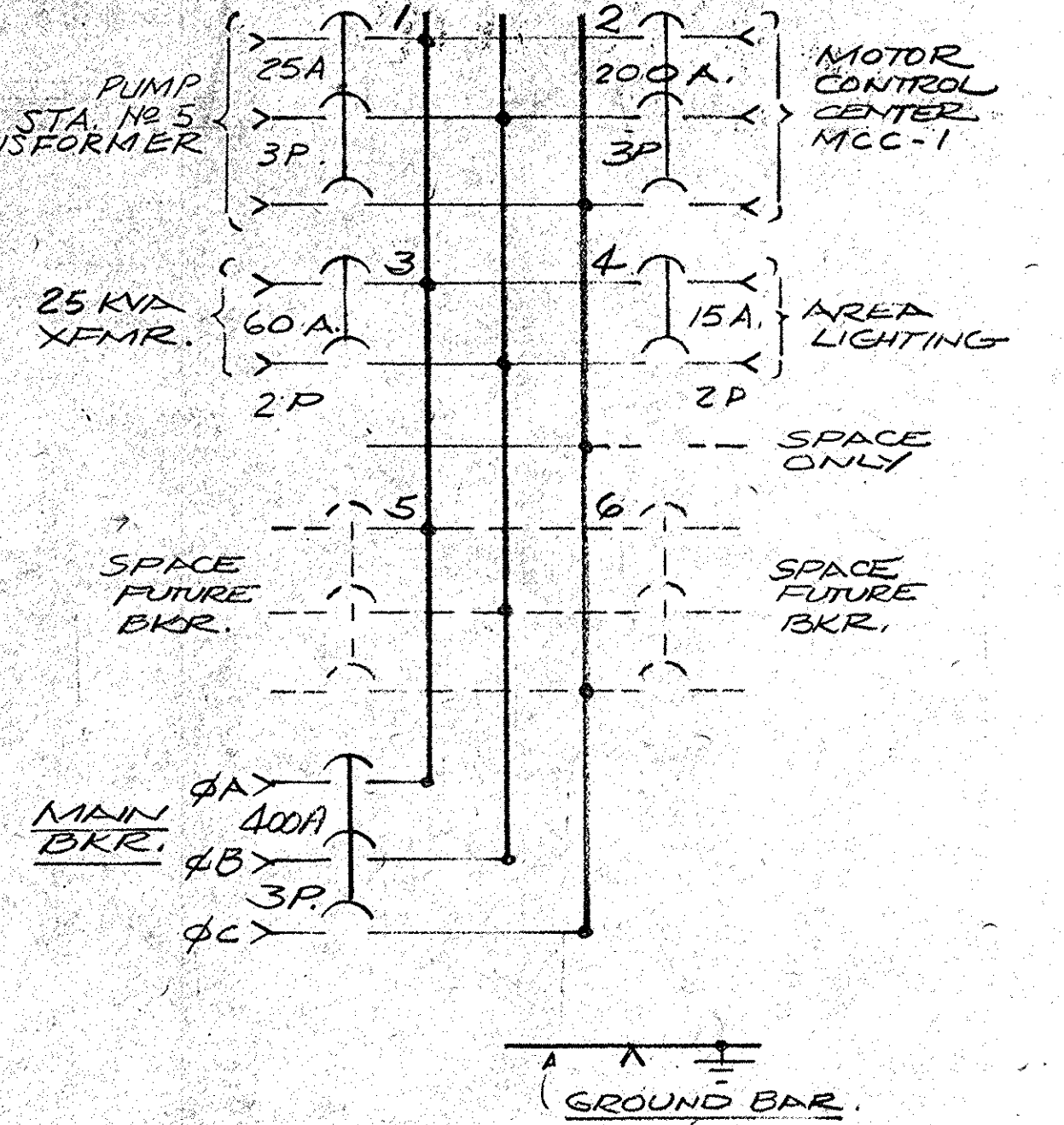
MAIN PANEL P3: PUMP STA. NO. 3.
480 VOLTS, 3Φ, 3 WIRE, 60HZ. A.C.
SURFACE MTD. CABINET - NEMA 12



PANEL EPI: CONTROL BLDG.
120/240V. 1Φ-3 WIRE. 60HZ. A.C.
SURFACE MTD. CABINET NEMA 12
100A NEUTRAL BAR - GROUNDABLE.



MAIN PANEL P1: CONTROL BLDG.
480 VOLTS, 3Φ, 3 WIRE, 60HZ. A.C.



NO.	DATE	BY	REVISION

lbcgw

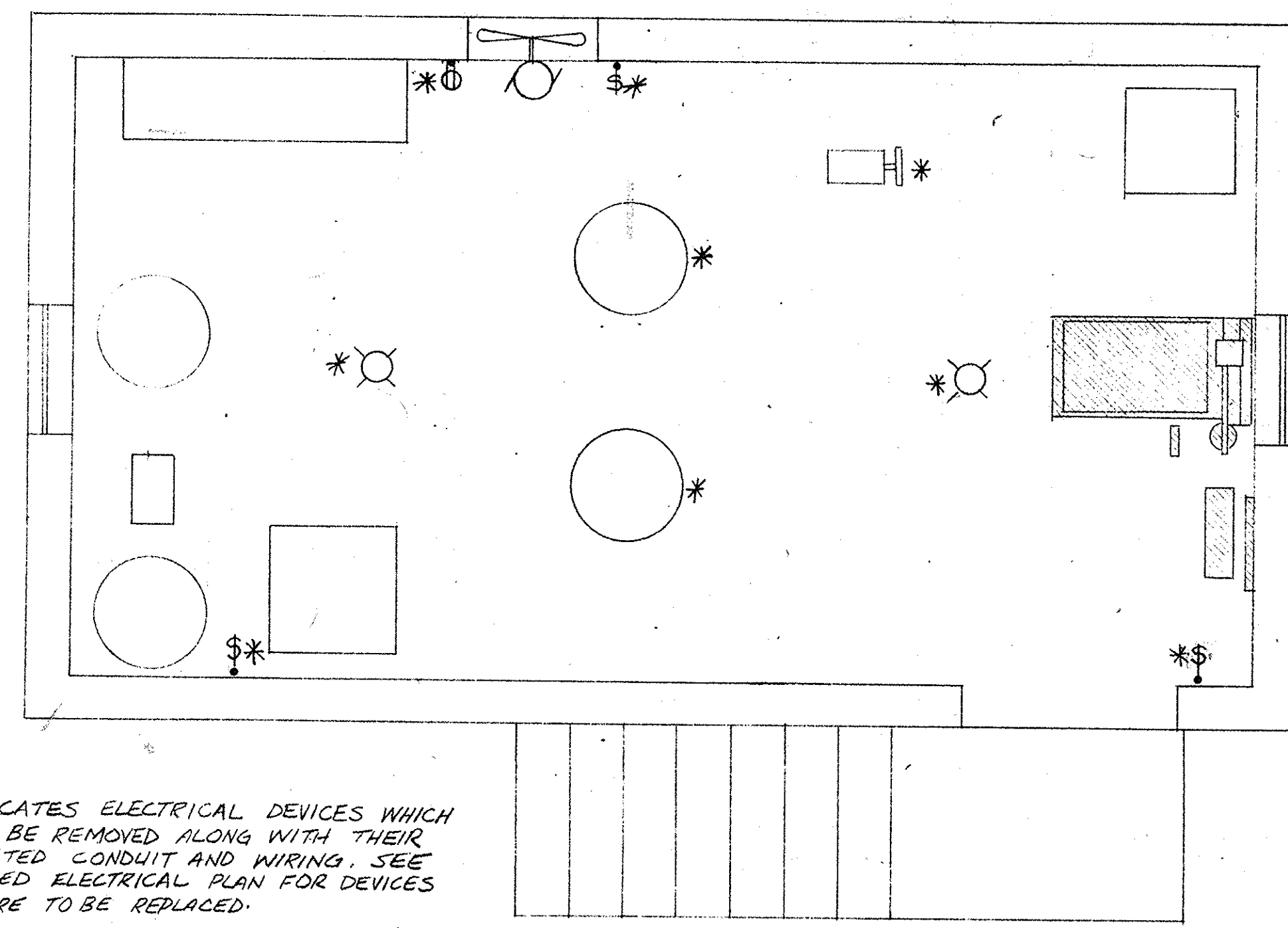
LBCAW HARWOOD BEEBE
SPARTANBURG, S.C. FLORENCE, S.C. COLUMBIA, S.C.
ENGINEERS
CONSULTANTS

SCALE: AS NOTED
DATE: SEPT. 1977
DRAWN BY: CAR
CHECKED BY: RFH
APPROVED BY: HSM

PROJECT NO.
EPAC450486-01
JOB NO.
C-374
FILE NO.

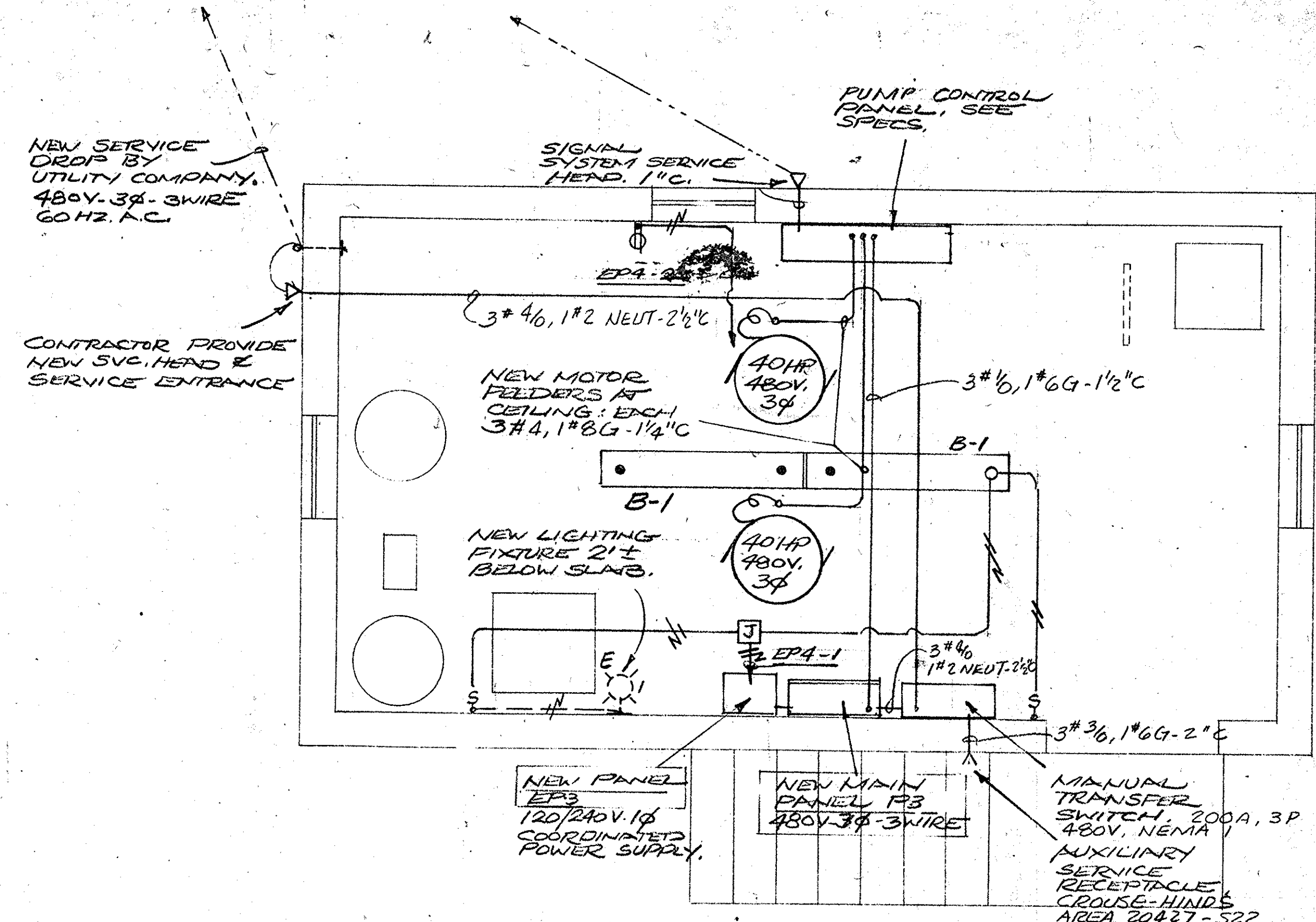
CITY OF CONWAY
WASTE FACILITIES IMPROVEMENTS
PUMP STATION NO. 1
ELECTRICAL PLANS

DRAWING NO. 27 OF 28
SEQUENCE NO. 4 OF 28



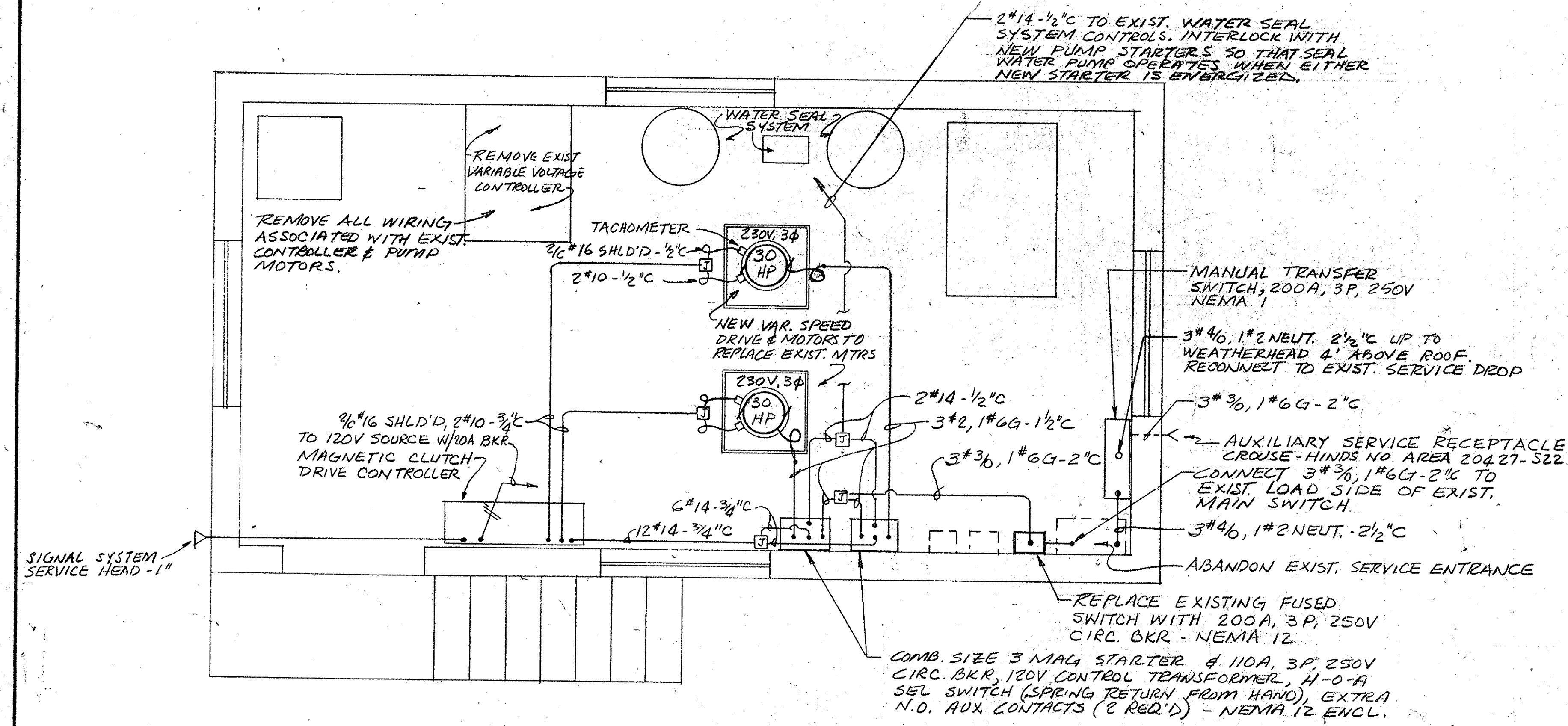
NOTE: * INDICATES ELECTRICAL DEVICES WHICH SHALL BE REMOVED ALONG WITH THEIR ASSOCIATED CONDUIT AND WIRING. SEE RENOVATED ELECTRICAL PLAN FOR DEVICES THAT ARE TO BE REPLACED.

PUMP STATION No. 3 (EXISTING)



PLAN - PUMP STATION No. 3 (RENOVATED)

1/2"=1'0"



PUMP STATION No. 4 (RENOVATIONS) 1/2"=1'0"

NO.	DATE	BY	REVISION

lbc&w

LBC&W HARWOOD BEEBE
ENGINEERS
CONSULTANTS
SPARTANBURG, S. C. FLORENCE, S. C. COLUMBIA, S. C.

SCALE: AS NOTED
DATE: SEPT. 1977
DRAWN BY: CAR
CHECKED BY: RFH
APPROVED BY: HSM

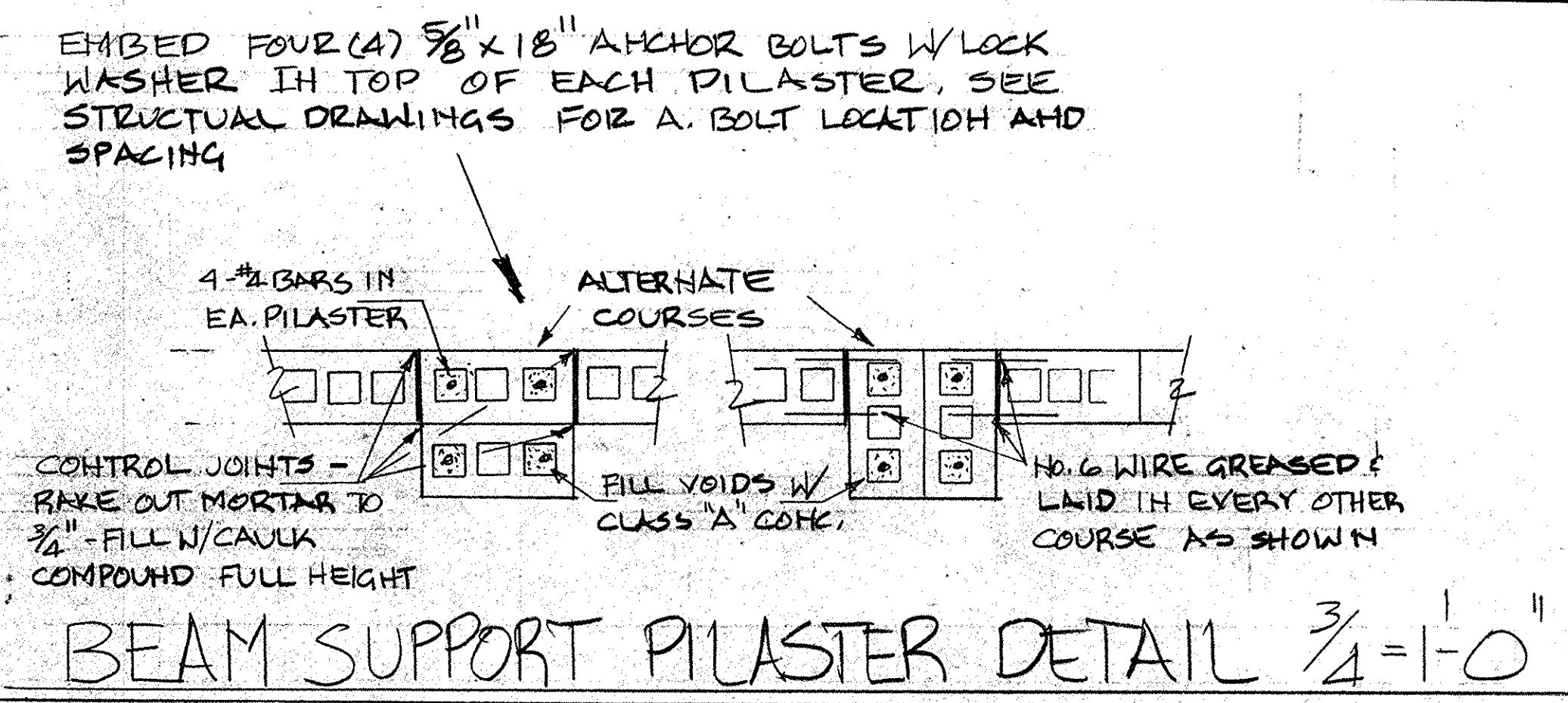
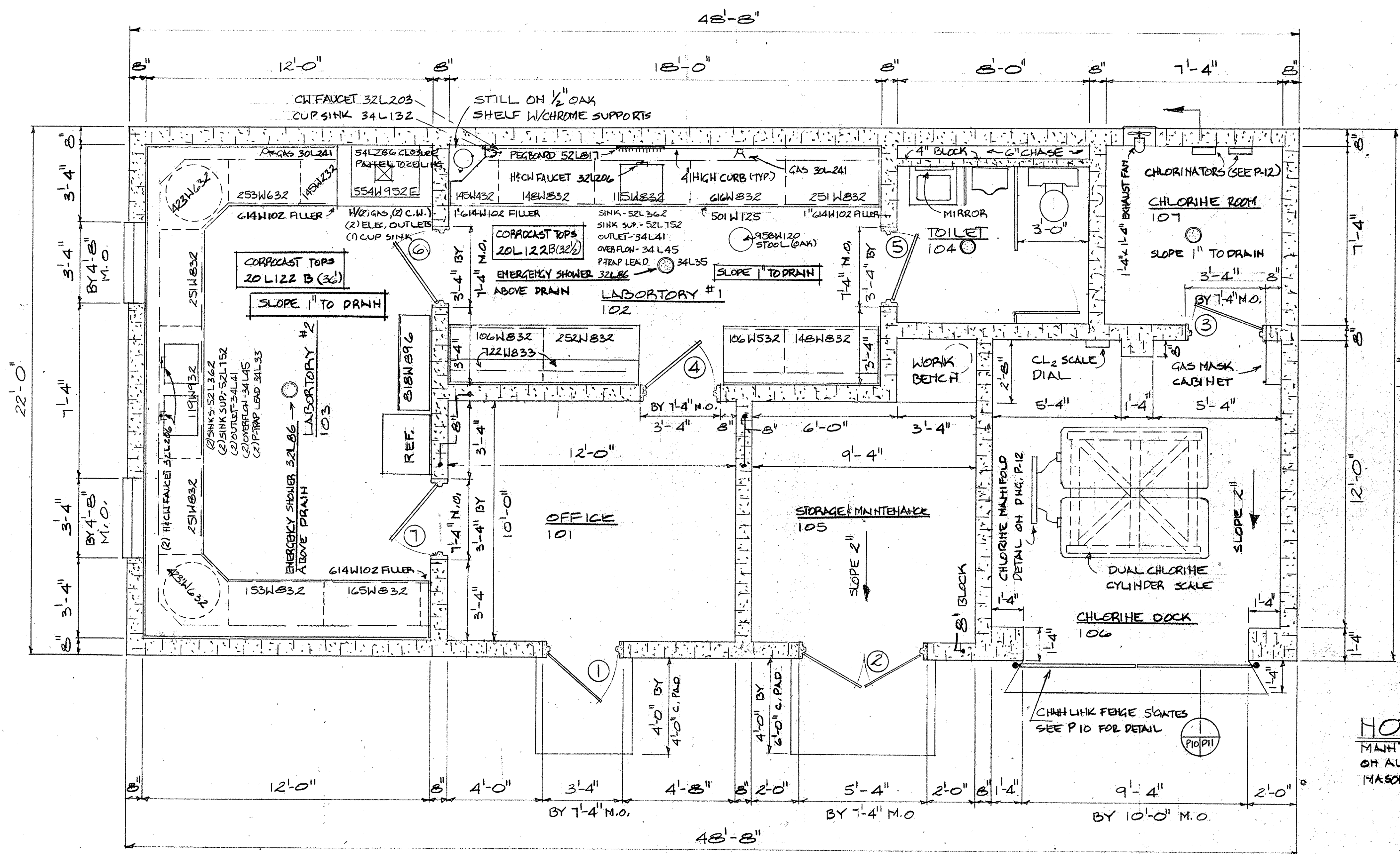
PROJECT NO.
EPAC450486-01
JOB NO.
C-374
FILE NO.

CITY OF CONWAY
WASTE FACILITIES IMPROVEMENTS
PUMP STATION NOS. 3 & 4
ELECTRICAL PLANS

DRAWING NO. E4 OF 4
SEQUENCE NO. 28 OF 28

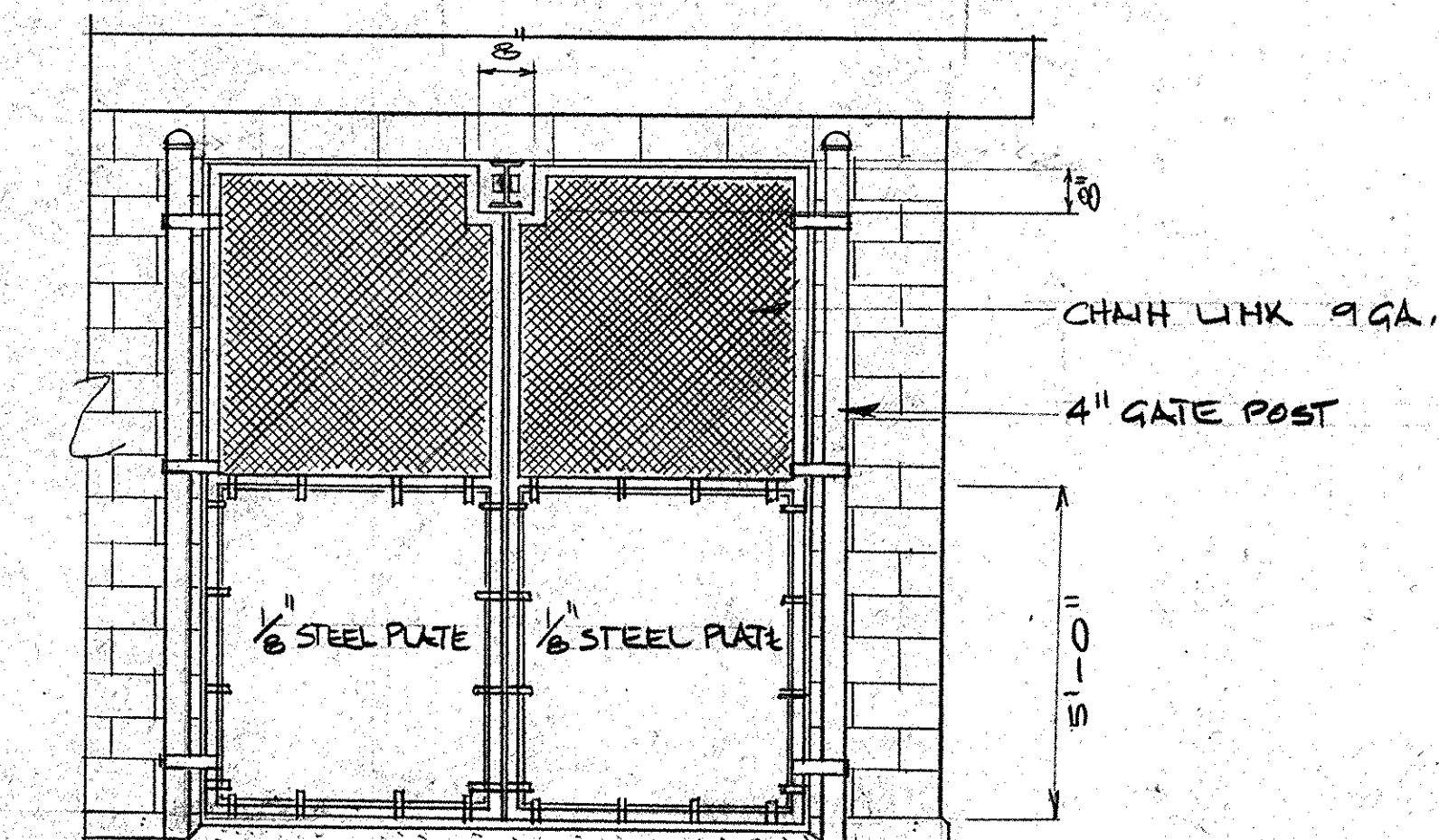
RECORD DRAWINGS
35-002-028 / 35
DIV. II

22-11-03



- NOTES**
1. FINISH FLOOR ELEVATION 13.25'
 2. FOR BUILDING FOUNDATION REFER TO SECTIONS ON DRAWING P11
 3. ALL WINDOWS THIS STRUCTURE TO BE CECO SERIES 2530 - TYPE A423 ASH OR EQUAL MODELS BY KAWNEER OR OTHERS
 4. PROVIDE FLOOR SLOPES AS NOTED ON FLOOR PLAN TO DRAINS OR EXT. OPENINGS
 5. FOR EQUIPMENT LAYOUT IN LAB #1 REFER TO ELECTRICAL PLAN (E10F4)
 6. EXTENDED CONCRETE BLOCK WALLS OF CHLORINE DOCK TO JOIST DECK.

NOTE
MAINTAIN 1" CLEARANCE ON ALL SIDES FROM MASONRY OPENING



FINISH SCHEDULE

NO.	AREA	WALLS	FLOOR	BASE	CEILINGS
101	OFFICE	PAINTED CONCRETE BLOCK	VINYL ASBESTOS TILE	4" VINYL COVE	ACOUSTICAL TILE (2'x4')
102	LAB #1	PAINTED CONCRETE BLOCK	VINYL ASBESTOS TILE	4" VINYL COVE	ACOUSTICAL TILE (2'x4')
103	LAB #2	PAINTED CONCRETE BLOCK	VINYL ASBESTOS TILE	4" VINYL COVE	ACOUSTICAL TILE (2'x4')
104	TOILET	PAINTED CONCRETE BLOCK	VINYL ASBESTOS TILE	4" VINYL COVE	ACOUSTICAL TILE (2'x4')
105	STOR. MAINT.	PAINTED CONCRETE BLOCK	CONCRETE	---	ACOUSTICAL TILE (2'x4')
106	CHLORINE D.	PAINTED CONCRETE BLOCK	CONCRETE	---	PAINTED BAR JOIST & DECK
107	CHLORINE R.	PAINTED CONCRETE BLOCK	CONCRETE	---	PAINTED PLYWOOD

NOTE
REFER TO SPECS FOR FINISHES COLOR, STYLE, NO. OF COATS & TEXTURE.

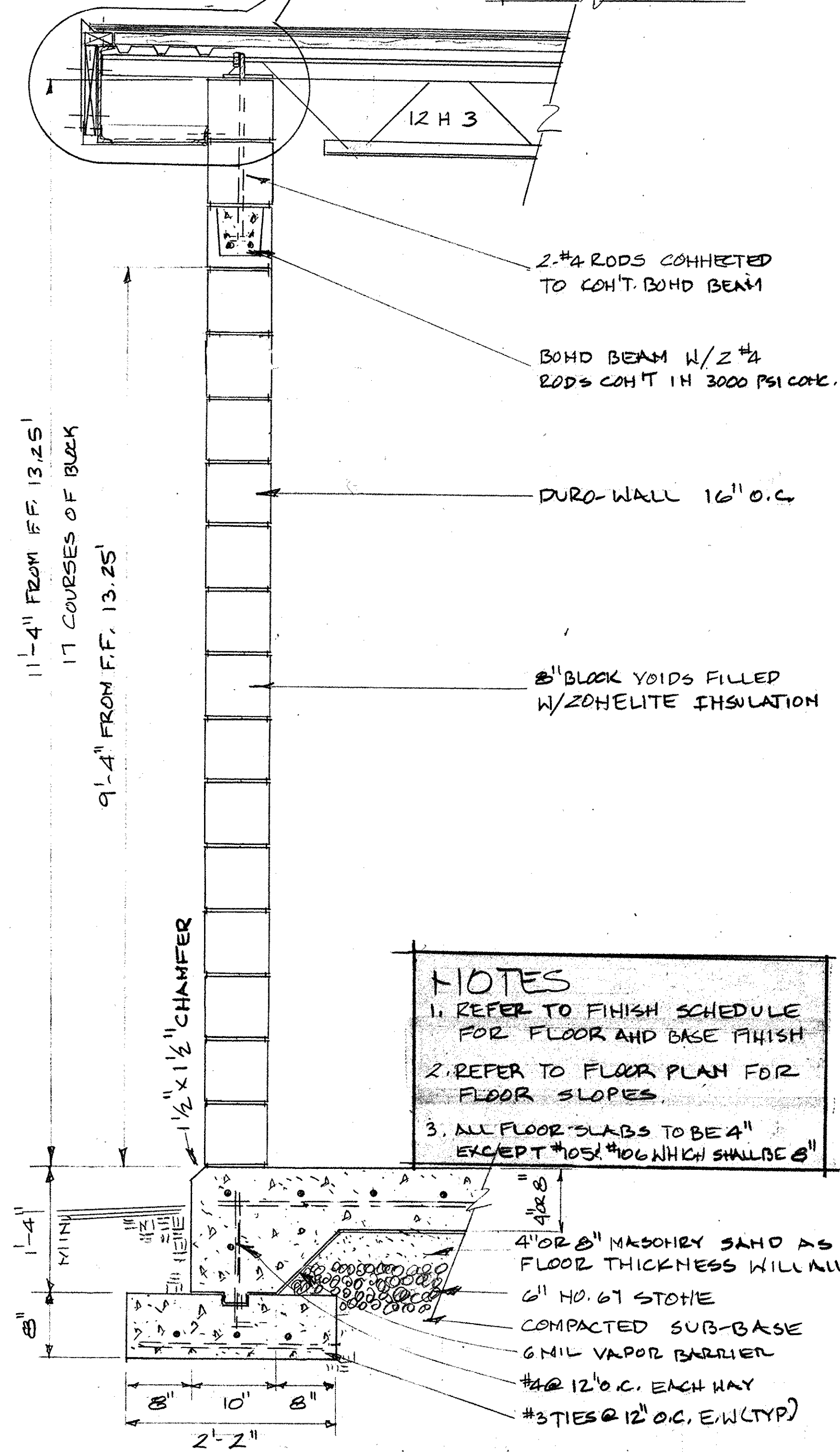
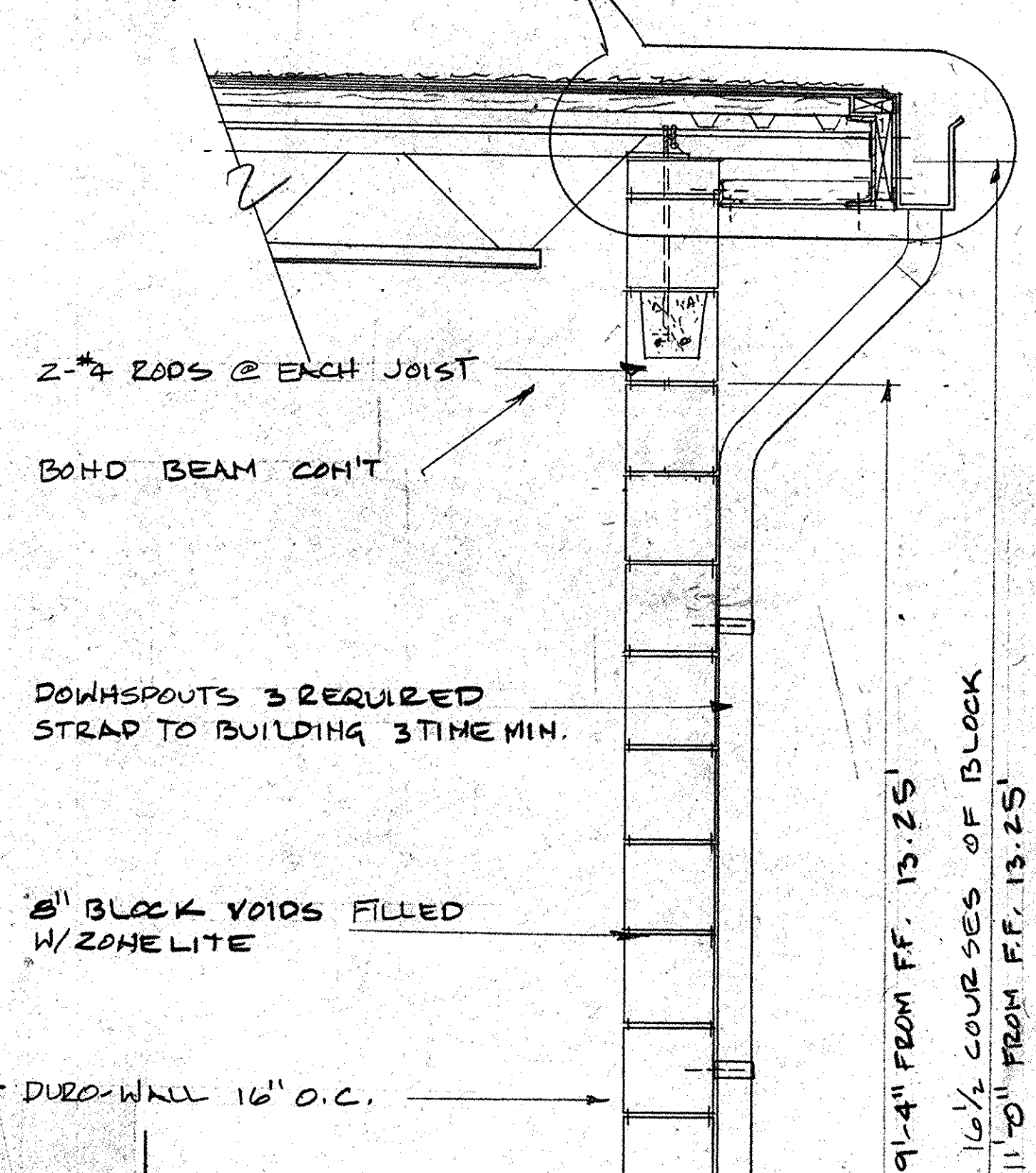
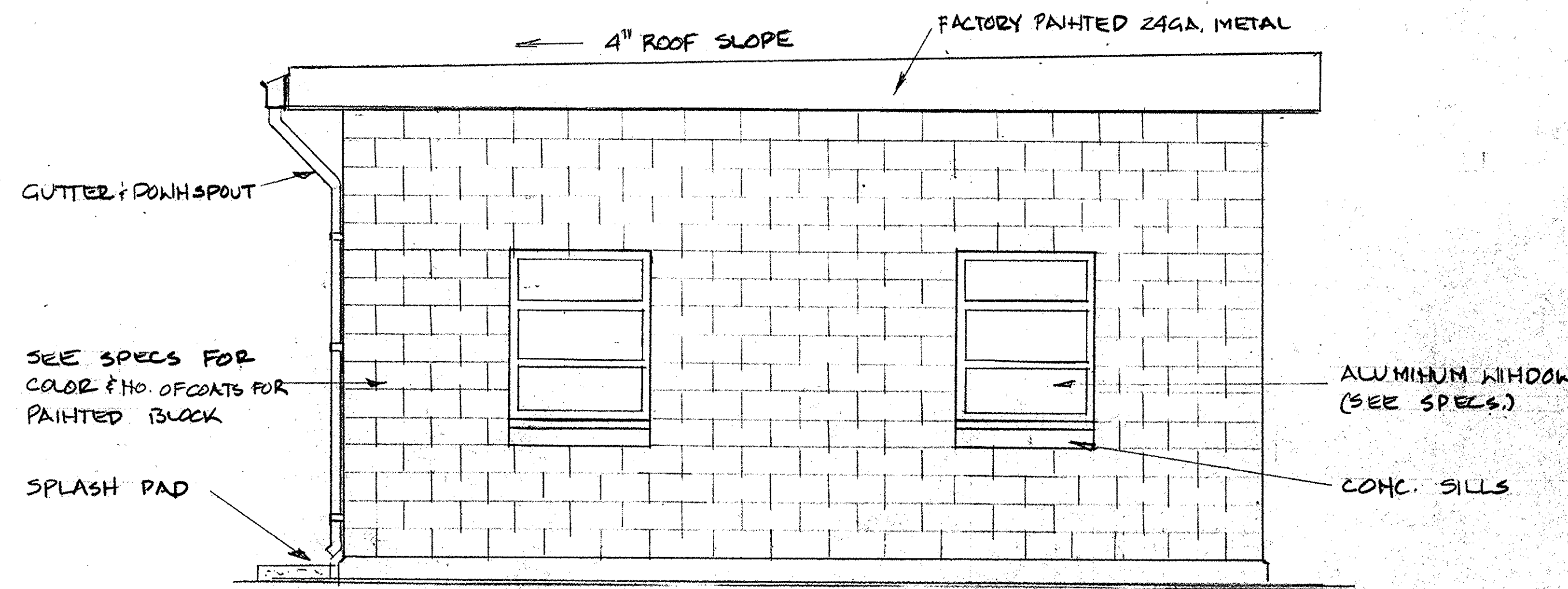
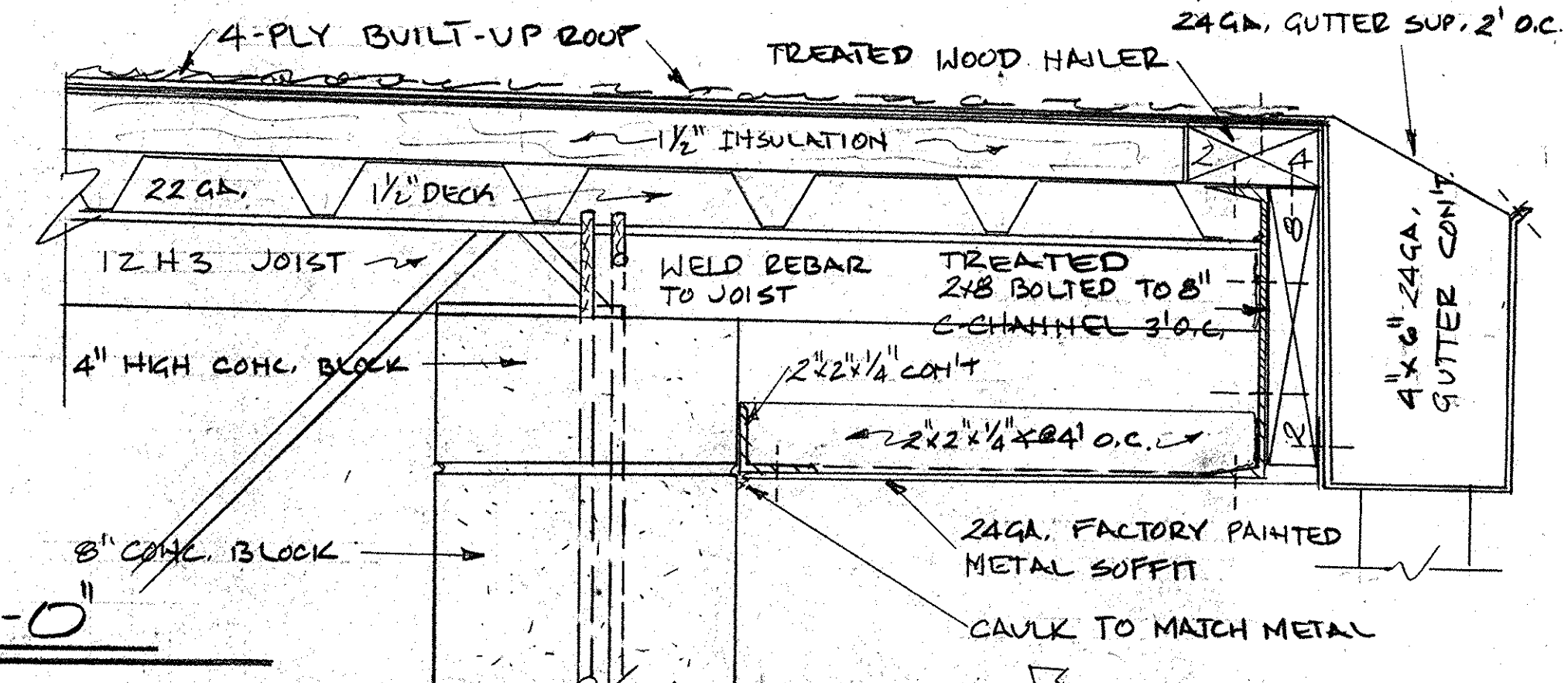
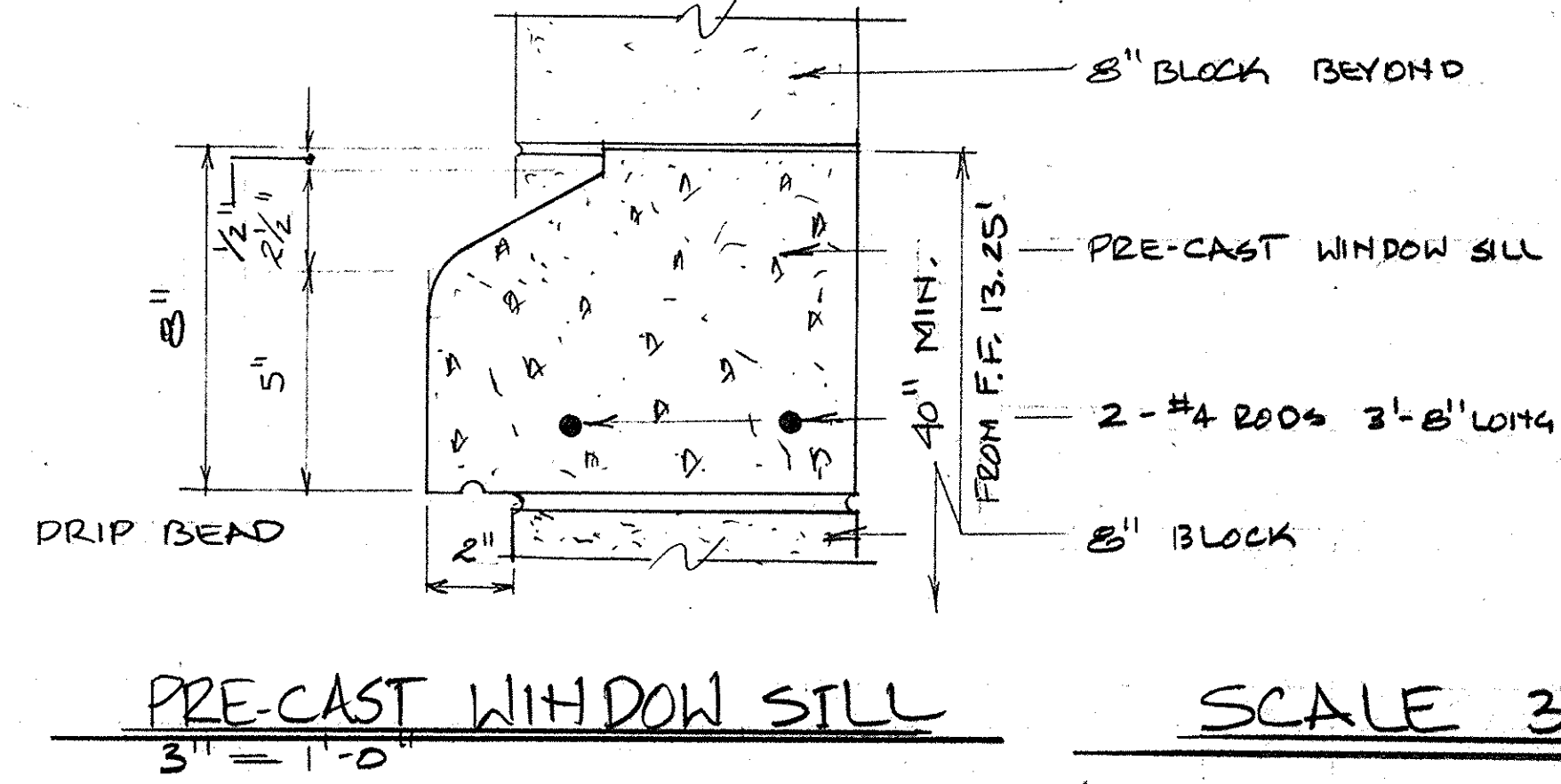
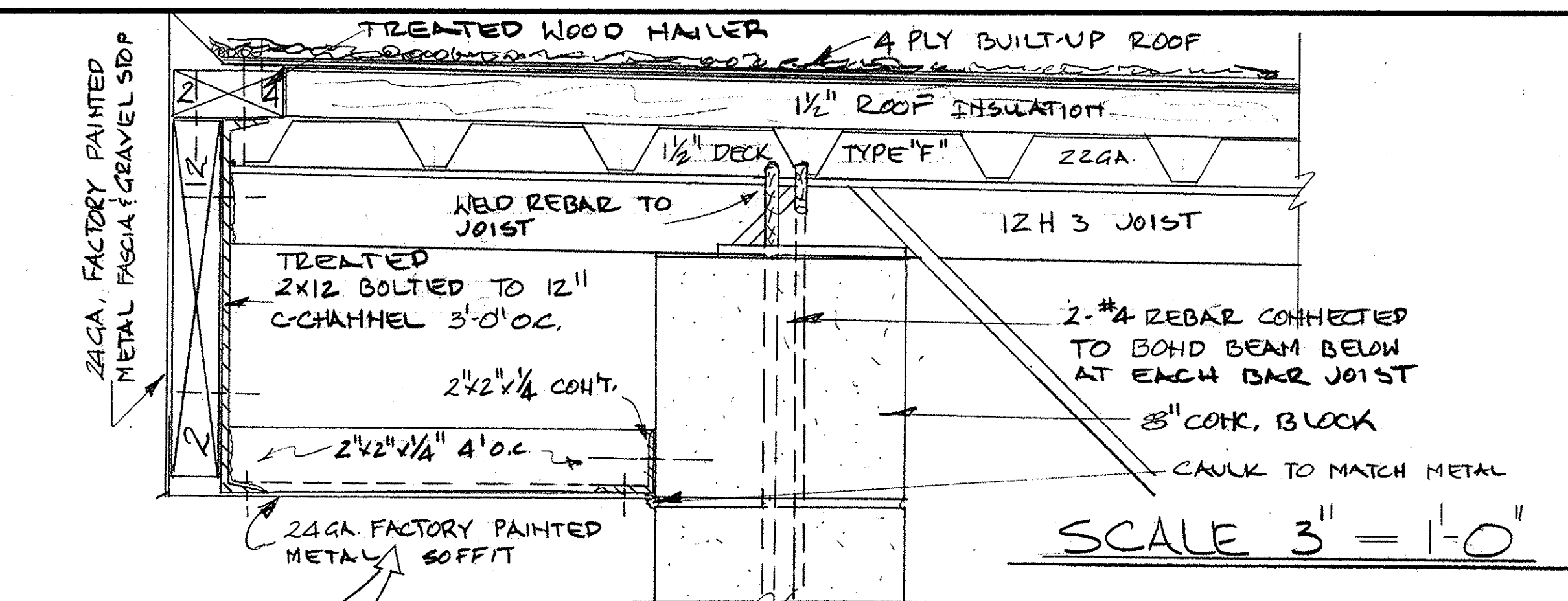
DOOR SCHEDULE

NO.	SIZE	TYPE	DESIGN	FRAME	HARDWARE
1	3'-0" x 7'-2" x $1\frac{3}{4}''$	II	G	8 $\frac{3}{4}''$ STEEL	HINGES SERIES 643A-4BB, CLOSER SERIES 1230, LOCKSET SERIES 1983
2	5'-0" x 7'-2" x $1\frac{3}{4}''$	II	V	8 $\frac{3}{4}''$ STEEL	HINGES SERIES 643A-4BB, LOCKSET SERIES 1983, DBLE HG W/ STRIKE #2152
3	3'-0" x 7'-2" x $1\frac{3}{4}''$	II	G	8 $\frac{3}{4}''$ STEEL	HINGES SERIES 643A-4BB, LOCKSET SERIES 1902
4	3'-0" x 7'-2" x $1\frac{3}{4}''$	I	G	8 $\frac{3}{4}''$ STEEL	HINGES SERIES 643A-4BB, LOCKSET SERIES 9720
5	3'-0" x 7'-2" x $1\frac{3}{4}''$	I	LI	8 $\frac{3}{4}''$ STEEL	HINGES SERIES 643A-4BB, LOCKSET SERIES 9185B, LOUVER 12"x18"
6	3'-0" x 7'-2" x $1\frac{3}{4}''$	I	G	8 $\frac{3}{4}''$ STEEL	HINGES SERIES 643A-4BB, LOCKSET SERIES 9720
7	3'-0" x 7'-2" x $1\frac{3}{4}''$	I	G	8 $\frac{3}{4}''$ STEEL	HINGES SERIES 643A-4BB, LOCKSET SERIES 9720

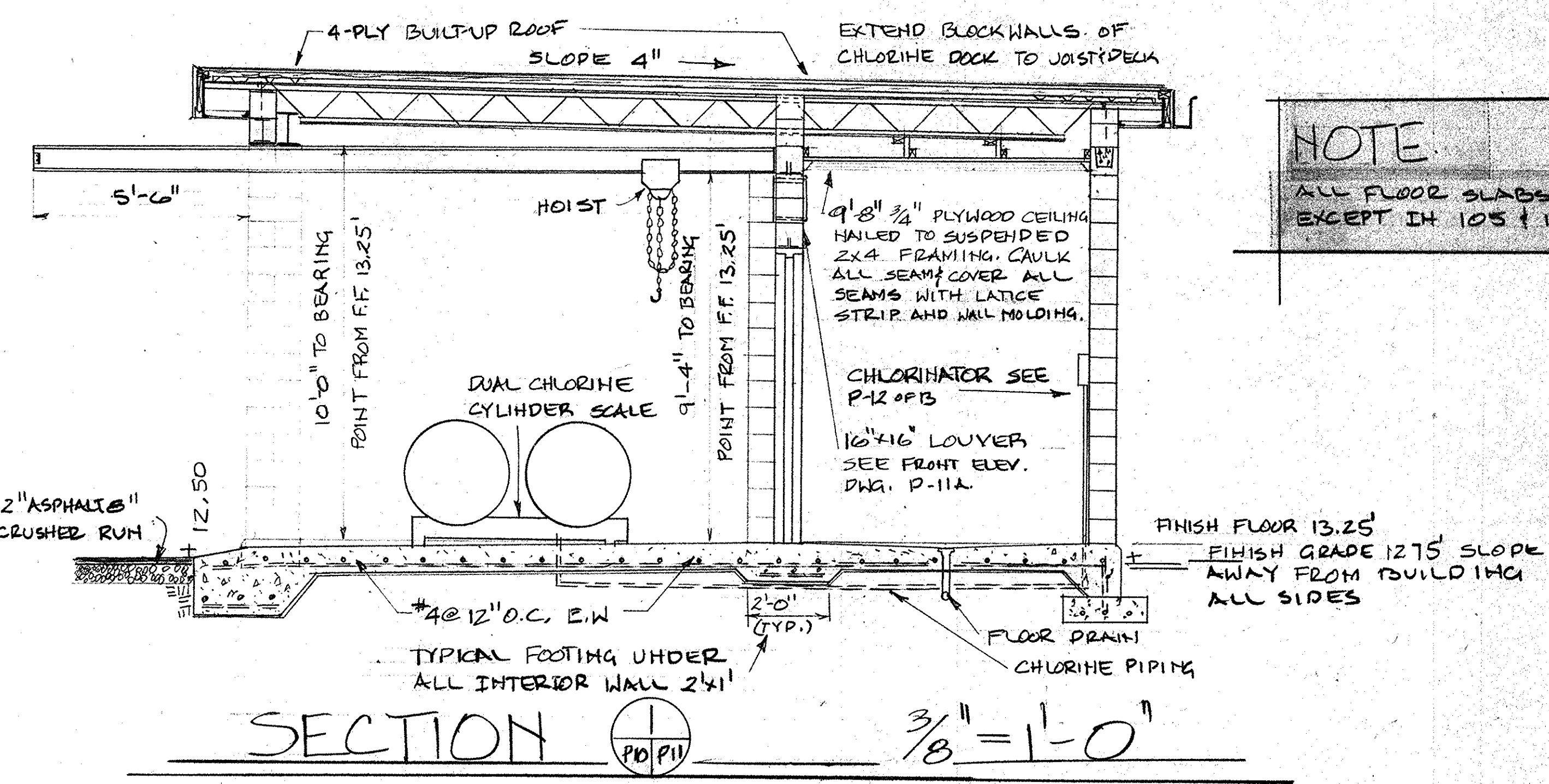
* CATALOG DATA FROM FENESTRA, EQUAL MODELS BY CECO OR EQUAL

RECORD DRAWINGS
35-002-P10/35

	B. P. BARBER & ASSOCIATES, INC. ENGINEERS COLUMBIA, S. C.		CITY OF CONWAY, S.C. WASTE FACILITIES IMPROVEMENTS		SHEET NO. P10 OF 13 SHEETS
	DESIGNED	REVISIONS		NOTEBOOK NO.	
	TRACED			FILE NO.	
	CHECKED			22-1103	
SCALE: NOTED			DATE:		



- NOTES**
1. REFER TO FINISH SCHEDULE FOR FLOOR AND BASE FINISH
 2. REFER TO FLOOR PLAN FOR FLOOR SLOPES
 3. ALL FLOOR SLABS TO BE 4" EXCEPT 105' x 106' WHICH SHALL BE 8"



NOTE
ALL FLOOR SLABS TO BE 4" EXCEPT 105' x 106'

SEE NOTES ON FRONT WALL SECTION

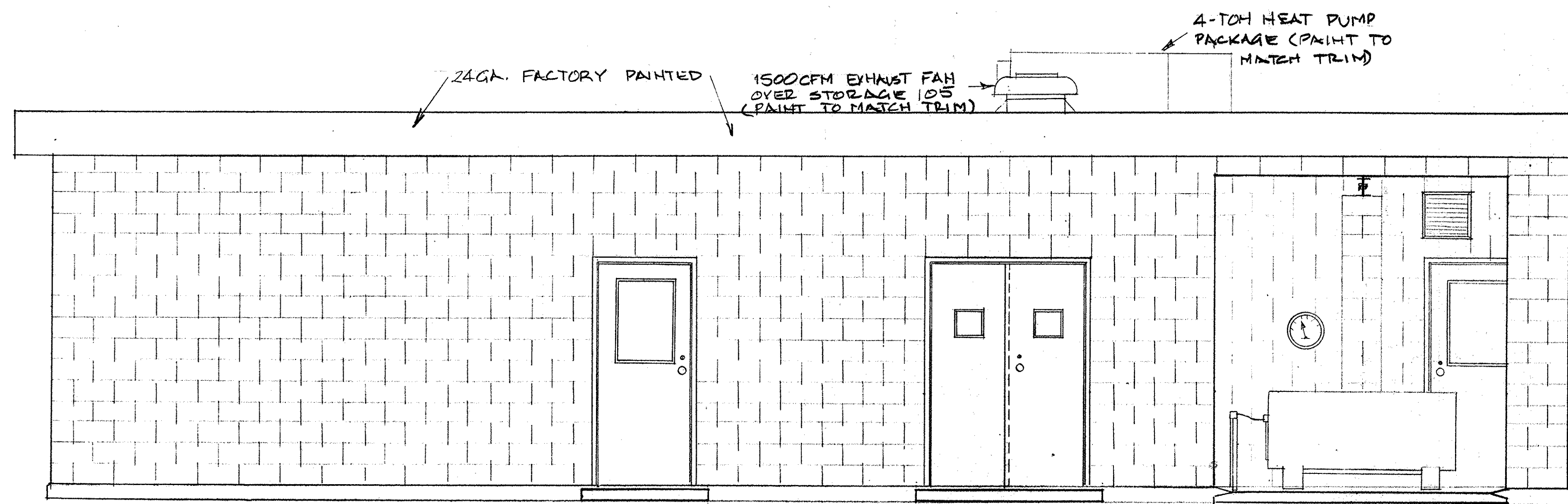
2' x 2' x 3" SPLASH PAD (3 REQUIRED)

FOR FOOTING SIZE & REBAR PLACEMENT SEE FRONT WALL SECTION TYPICAL

TYPICAL FRONT WALL SECTION

TYPICAL REAR WALL SECTION

SEAL: SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 6114 JAMES M. LONGSHORE	B. P. BARBER & ASSOCIATES, INC. ENGINEERS COLUMBIA, S. C.		CITY OF CONWAY, S.C. WASTE FACILITIES IMPROVEMENTS		SHEET NO. P-11
	DESIGNED	REVISIONS		OF 13 SHEETS	
	TRACED			NOTEBOOK NO.	
	CHECKED			FILE NO. 22-11-03	
SCALE: NOTED		DATE			

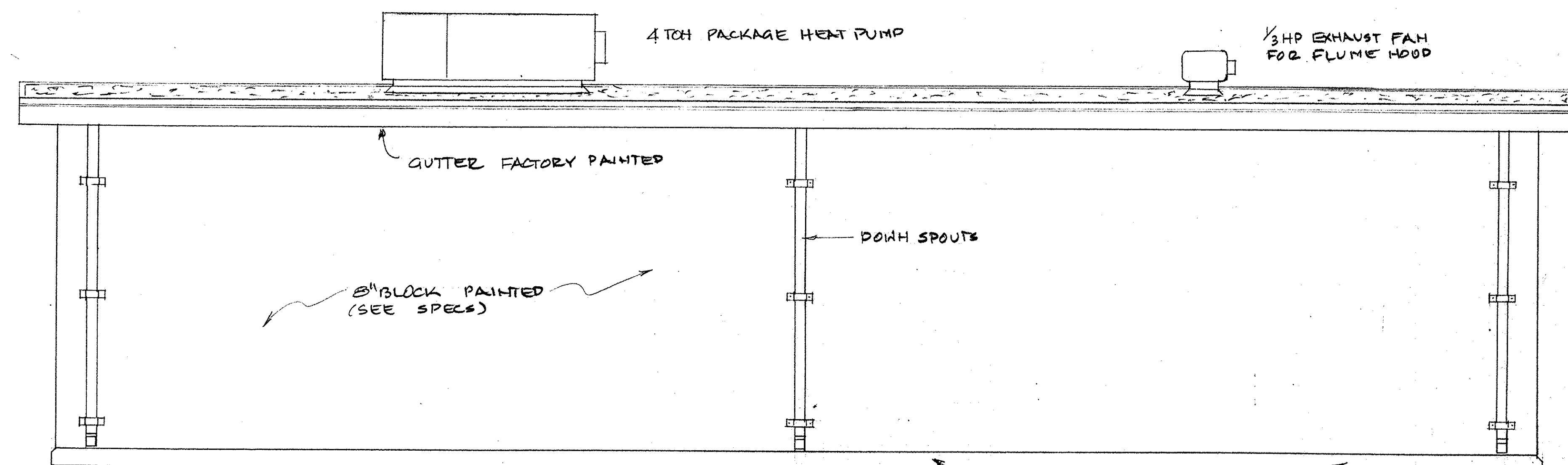


8" CONC. BLOCK PAINTED
(SEE SPECS FOR COLOR
& NO. OF COATS)

SIDEWALK OMITTED FOR CLARITY

FRONT ELEVATION $\frac{3}{8}'' = 1'-0''$

NOTE
GATES OMITTED FOR CLARITY REFER
TO DRAWING P-10 CHLORINE DOCK GATE



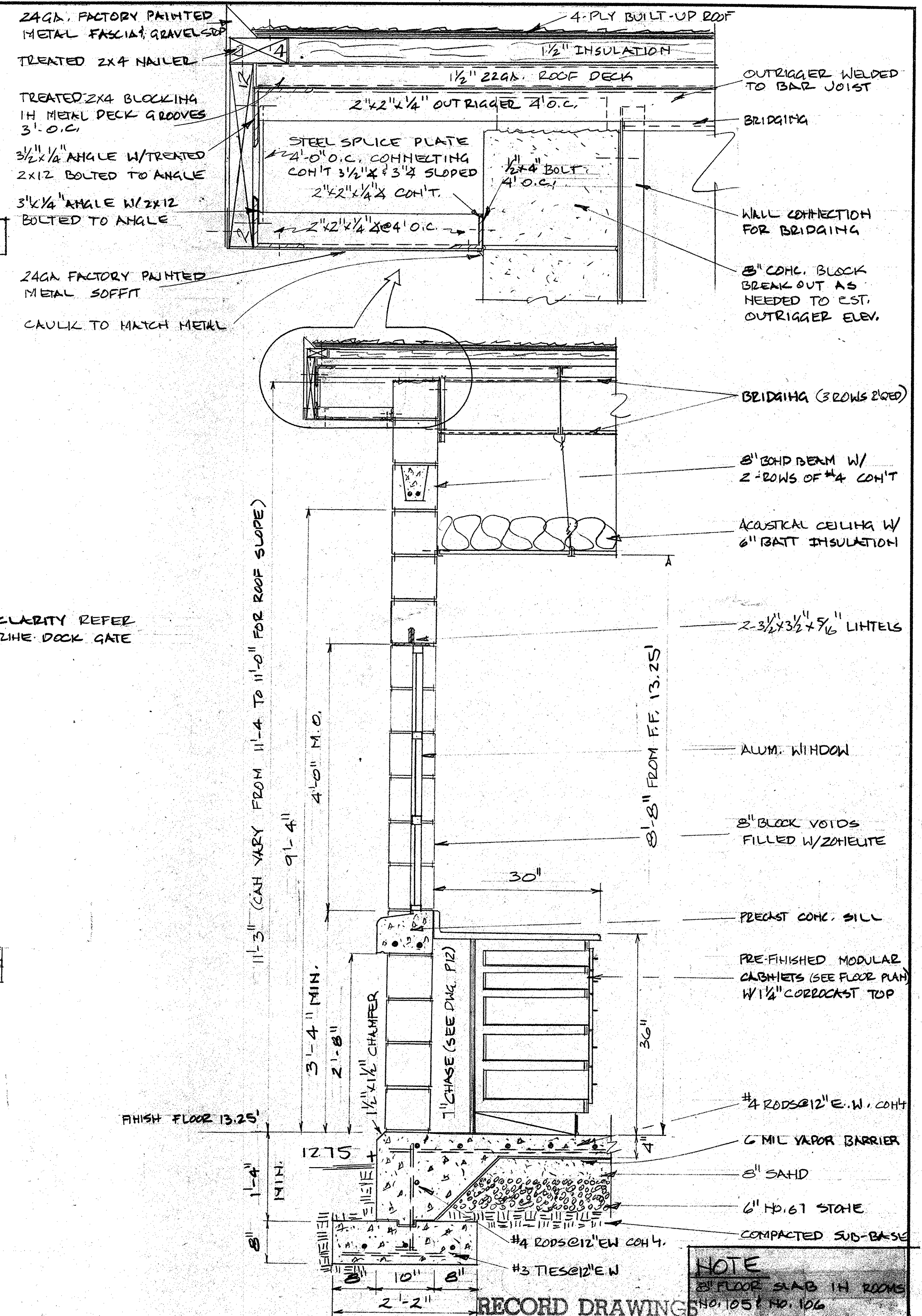
8" BLOCK PAINTED
(SEE SPECS)

DOWN SPOUTS

EXPOSED CONC. FOUNDATION

SPLASH BLOCKS OMITTED ON THIS DWG.

REAR ELEVATION $\frac{3}{8}'' = 1'-0''$

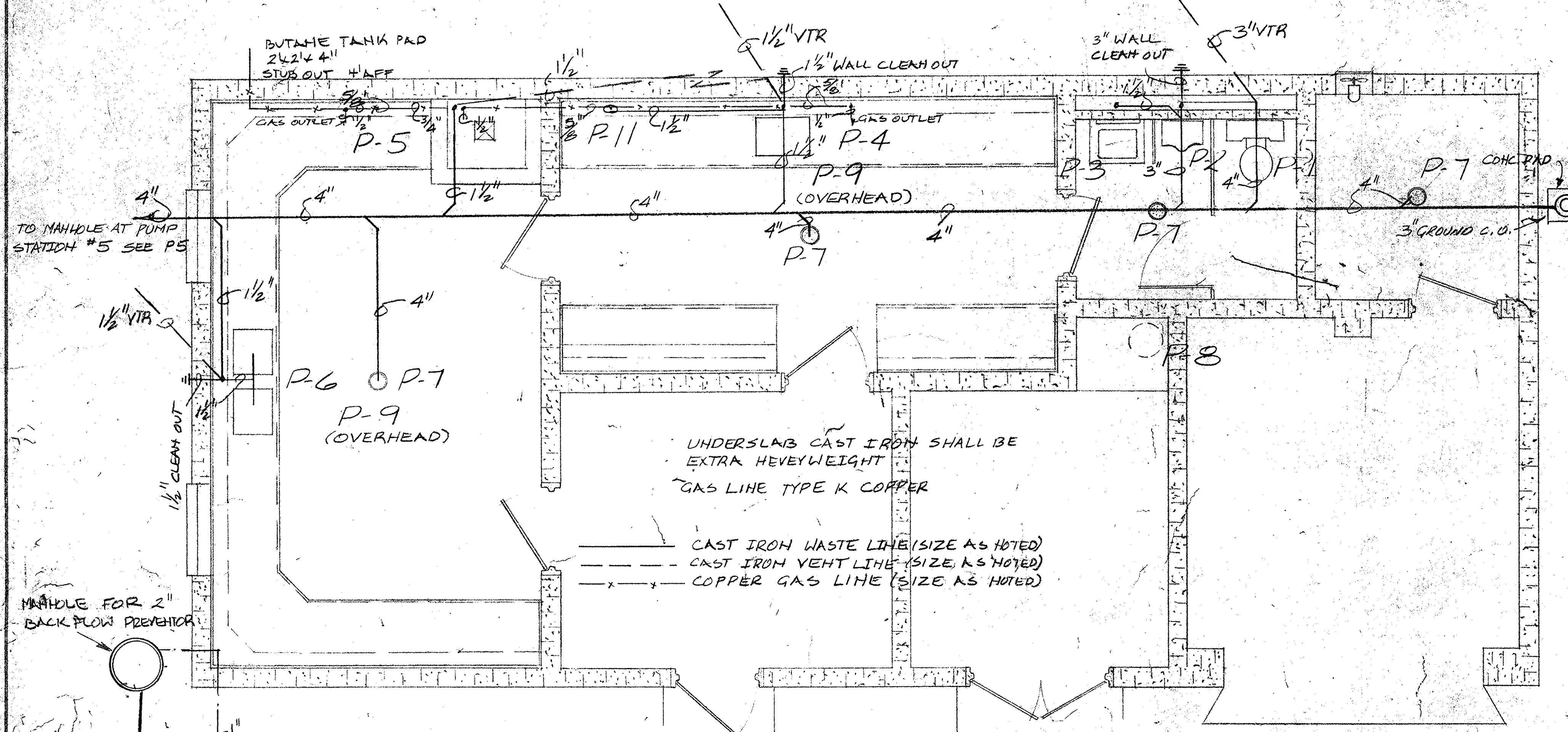


TYPICAL SIDE WALL SECTION $1'' = 1'-0''$

SEAL: SOUTH CAROLINA PROFESSIONAL ENGINEER No. 6114 JAMES M. LONGSHORE	B. P. BARBER & ASSOCIATES, INC. ENGINEERS COLUMBIA, S. C.		35-002-P114/35 CITY OF CONWAY, S.C. WASTE FACILITIES IMPROVEMENTS		SHEET NO. P-11A
	DESIGNED	REVISIONS		OF SHEETS	
	TRACED			NOTEBOOK NO.	
	CHECKED			FILE NO. 22-11-03	
SCALE: NOTED			DATE		

WASTE PIPING PLAN

3/8" = 1'-0"

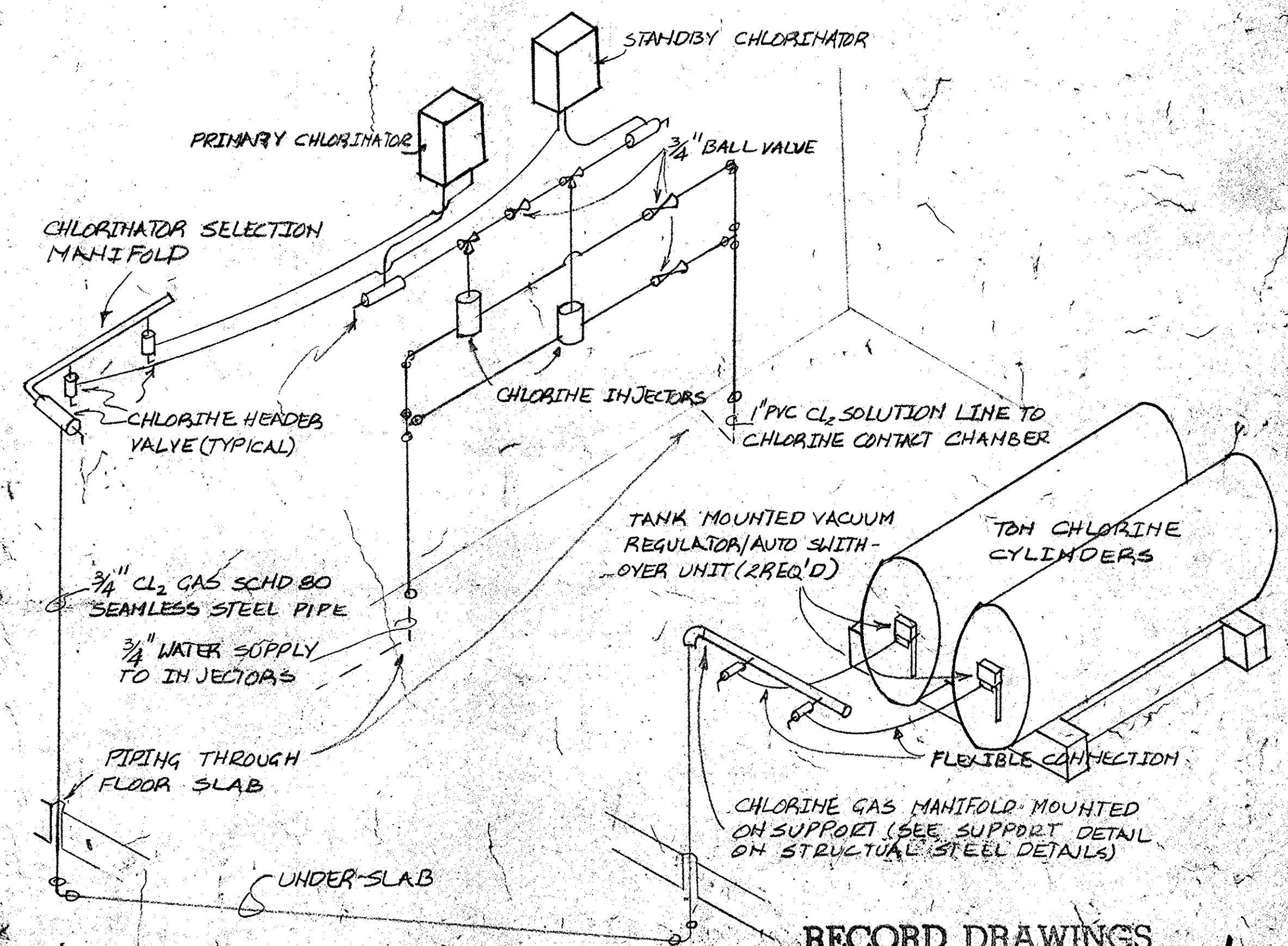


PLUMBING SCHEDULE		
NO.	QUANTITY	DESCRIPTION
P-1	1	WATER CLOSET "ROCKWELL" K-4252-ETA SIPHON JET ACTION, OPEN FRONT WHITE SEAT OR EQUAL
P-2	1	"FRESHMAN" K-4985-TA, WALL HANGER, DELANY 451-YB FLUSH VALVE OR EQUAL
P-3	1	"HUDSON" K-2863, 20" X 18", A.R. ENAM. C.I., K-7436 T-SUPPLY FIT, K-7606 SUPPLIES W/STOPS, K-9000 1/4" TRAP
P-4	1	ROUGH-IN AND CONNECT SINK AS PROVIDED BY GENERAL W/STOPS
P-5	1	ROUGH-IN AND CONNECT FLUME HOOD STUB-OUTS FOR WASTE, C.WATER & GAS W/STOPS
P-6	1	ROUGH-IN AND CONNECT SINKS AS PROVIDED BY GENERAL W/STOPS
P-7	4	FLOOR DRAINS CAST IRON 6" ROUND TOP, W/BRASS GRATE, INTEGRAL TRAP & 3" BACKWATER VALVE
P-8	1	WATER HEATER 30 GAL. LOW-BOY TYPE 2-4500 WATT ELEMENTS
P-9	2	ROUGH-IN AND CONNECT EMERGENCY SHOWER PROVIDED BY GENERAL W/STOP
P-10	4	ANTI-FREEZE 3/4" W/MALE HOSE THREADS ON OUTLET
P-11	1	ROUGH-IN AND CONNECT GOOSE NECK FIXTURE AND 4"x1" CUP SINK PROVIDED BY GENERAL

NOTE

ALL PLUMBING FOR LAB #1 (102) & LAB #2 (103) IS TO BE STUBBED UP IN 7" CABINET CHASE, NOT IN BLOCK WALLS

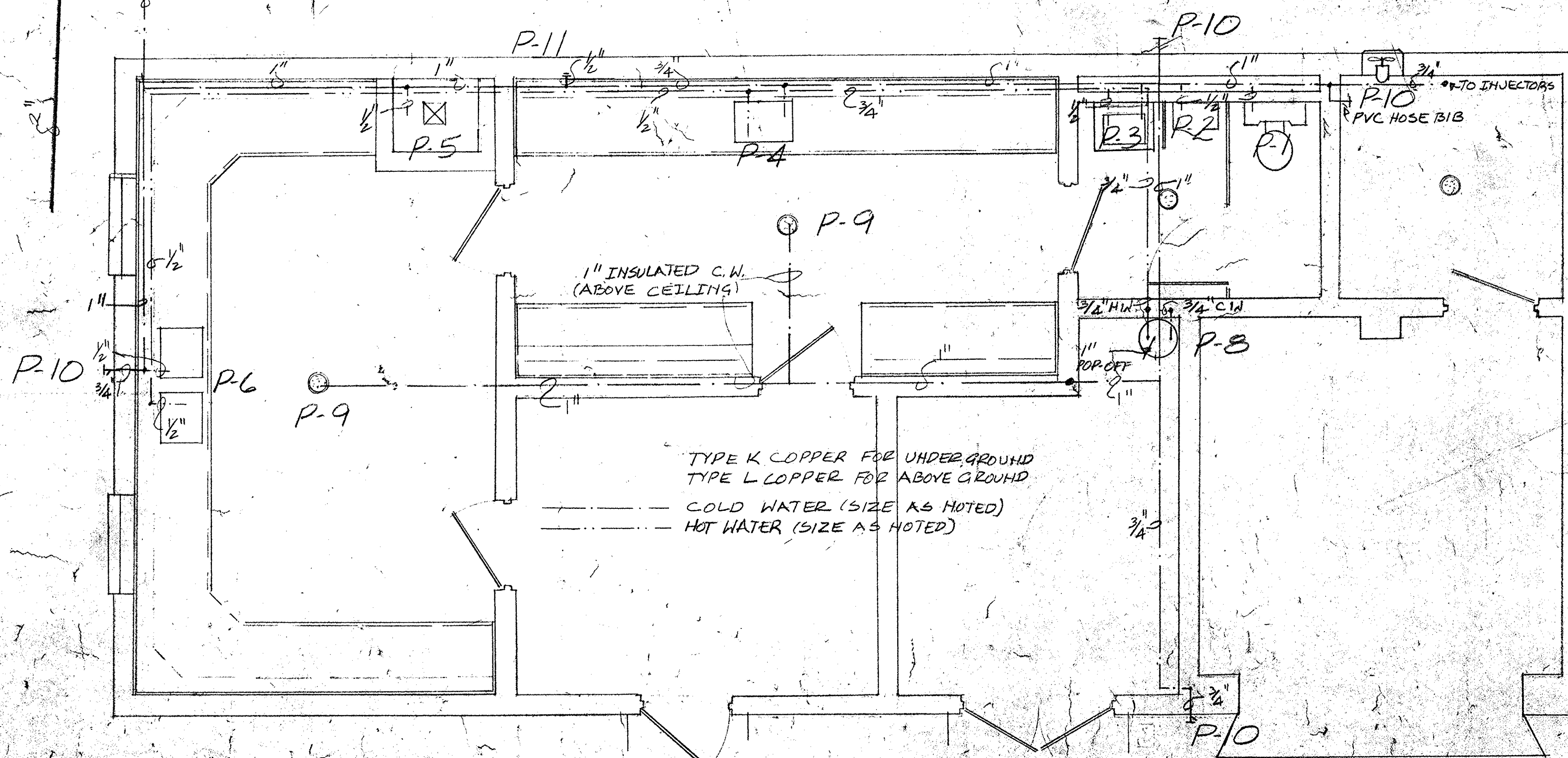
CHLORINE PIPING SCHEMATIC



RECORD DRAWINGS
35-002-P12/35

WATER PIPING PLAN

3/8" = 1'-0"



	B. P. BARBER & ASSOCIATES, INC. ENGINEERS COLUMBIA, S. C.		CITY OF CONWAY, S.C. WASTE FACILITIES IMPROVEMENTS CONTROL BUILDING PLAN & SECTIONS	SHEET NO. P-12 OF 13 SHEETS
	DESIGNED	REVISIONS		
	TRACED			
	CHECKED			
SCALE: NOTED			DATE:	NOTEBOOK NO. 22-11-03