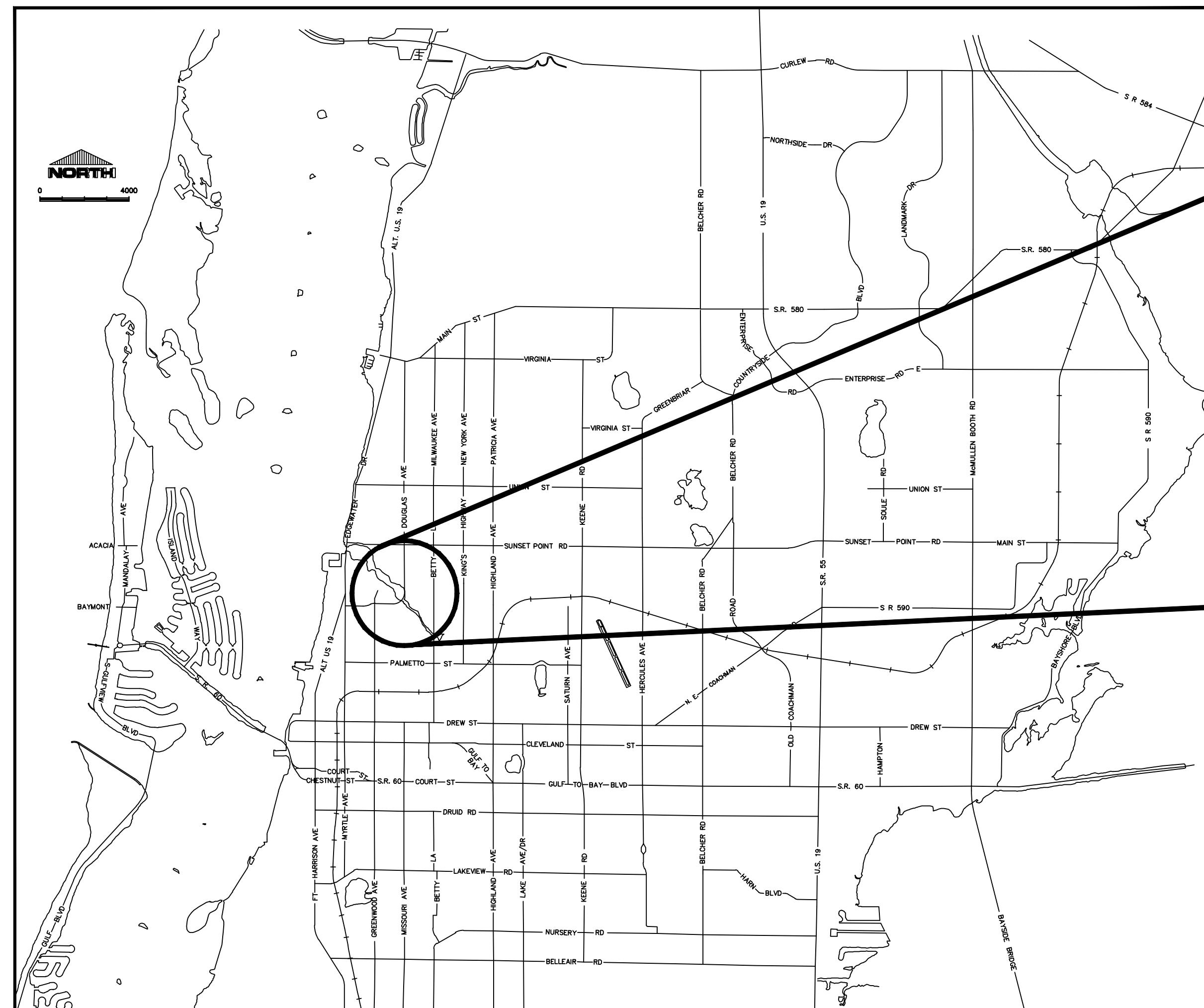


SHEET INDEX

SHEET #	SHEET DESCRIPTION
COVER	COVER SHEET
G0.01	ABBREVIATIONS, NOTES AND LEGENDS
C1.00	OVERALL SITE PLAN
C1.01	SITE DEMOLITION PLAN
C1.02	YARD PIPING DEMOLITION SITE PLAN
C1.03	PAVING, GRADING & DRAINAGE PLAN
M1.00	ENLARGED SITE PLAN
M1.01	EXISTING DIGESTER SECTION
M1.02	TWAS PIPE ABANDONMENT PLAN
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E1.00	ELECTRICAL DEMOLITION PLAN AND POWER ONE-LINE DIAGRAM

INFORMATION FOR BIDDERS

REF-01A	REFERENCE DRAWING (1)
REF-01B	REFERENCE DRAWING (1)
REF-02	REFERENCE DRAWING (2)
REF-03	REFERENCE DRAWING (3)
REF-04	REFERENCE DRAWING (4)
REF-05	REFERENCE DRAWING (5)
REF-06	REFERENCE DRAWING (6)
REF-07A	REFERENCE DRAWING (7)
REF-07B	REFERENCE DRAWING (7)
REF-07C	REFERENCE DRAWING (7)
REF-08	REFERENCE DRAWING (8)



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MARSHALL STREET WRF DIGESTER DEMOLITION



CITY OFFICIALS

Frank Hibbard	Mayor	Seat 1
Mark Bunker	Councilmember	Seat 2
Kathleen Beckman	Councilmember	Seat 3
David Allbritton	Councilmember	Seat 4
Hoyt Hamilton	Councilmember	Seat 5
William B. Horne II	City Manager	

Tara Kivett, P.E.
City Engineer

Approved For
Construction

CITY ENGINEER TARA KIVETT, P.E. #58383

Date Approved

3/1/2021

BID DOCUMENTS

City Project No. 09-0024-UT
City Plan Set No. 2014032

ABBREVIATIONS

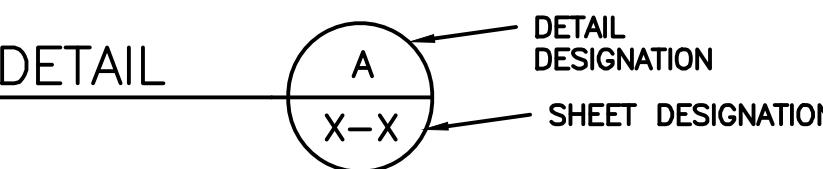
GENERAL NOTES

SECTION DESIGNATION

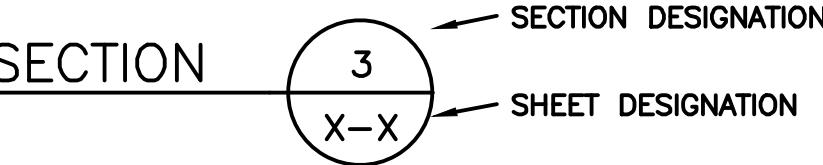
GO.01

#	NUMBER	RGS	RIGID GALVANIZED STEEL
AT	EQUIPMENT	RSL.	RETURN SLUDGE
A	AMPERE / AIR PIPING	RT.	RIGHT
A.C.	ALTERNATING CURRENT	S.L.L.	SUPERIMPOSED LIVE-LOAD
A.C.C.U.	AIR CONDITIONING CONDENSING UNIT	S.P.	STATIC PRESSURE
A.C.H.P.	AIR COOL HEAT PUMP	S.S.	STAINLESS STEEL
A.C.I.	AMERICAN CONCRETE INSTITUTE	S/W	SIDEWALK
A.H.U.	AIR HANDLING UNIT	S02	SULFER DIOXIDE
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	SAN.	SANITARY
A.R.I.	AMERICAN REFRIGERATION INSTITUTE	SCH	SCHEDULE
A.S.C.E.	AMERICAN SOCIETY OF CIVIL ENGINEERS	SCHD.	SCHEDULE
A.S.T.M.	AMERICAN SOCIETY FOR TESTING OF MATERIALS	SCR	SILICON CONTROLLED RECTIFIER
A.T.S.	AUTOMATIC TRANSFER SWITCH	SD.	STORM DRAIN
AASHTO	AMERICAN SOCIETY OF STATE HIGHWAY & TRANSPORTATION OFFICIALS	SEER	SEASONAL EFFICIENCY RATIO
AC	AIR CONDITIONER / ASPHALTIC CONCRETE	SEW	RAW SEWAGE
ADD.L.	ADDITIONAL	SHT.	SHEET
AFF	ABOVE FINISHED FLOOR	SL	SLUDGE
ALT	ALTERNATOR	SNT.	SUPERNATANT
ALUM./AL.	ALUMINUM	SPRKLR	SPRINKLER
ANCH./ANC.	ANCHOR	SQ.	SQUARE
APPD.	APPROVED	STD.	STANDARD
APPL.	APPLIED	STG.	STORAGE
APPROX.	APPROXIMATE	STL.	STEEL
ASPH. PAVT.	ASPHALT PAVEMENT	STOR.	STORAGE
AVG./AVE.	AVERAGE	STR.	STRUCTURAL
B.	BOTTOM	SUCT.	SUCTION
B.	BOTTOM	SUPPT.	SUPPORT
B.A.	BELT DRIVE	SUSP.	SUSPENDED
B.T.U.	BRITISH THERMAL UNITS	SWD.	SIDEWALK DEPTH
B.V.	BUTTERFLY VALVE	SYMM.	SYMMETRICAL
BATT.	BATTERY	T	TREADS
BLDG.	BUILDING	T. & B.	TOP & BOTTOM
BLK.	BLOCK	TV.	TOILET VENTILATOR
BM	BEAM	T.W.	TREATED WATER
BOTT./BOT.	BOTTOM	TDH.	TOTAL DYNAMIC HEAD
C.	CONDUIT / CHANNEL	TELserv.BX.	TELEPHONE SERVICE BOX
C.B.	CATCH BASIN	TEMP.	TEMPORARY
C.F.M.	CUBIC FEET PER MINUTE	THCK	THICK
C.I.P.	CAST IRON PIPE	TP.	TOP
C.J.	CONSTRUCTION JOINT	TWAS	THICKENED WASTE ACTIVATED SLUDGE
C.M.P.	CORRUGATED METAL PIPE	TYP.	TYPICAL
C.P.	CONCRETE PIPE	U.S.	UNITED STATES
CTG	COATING	UNC.	UNIFIED COARSE
C.V.	CHECK VALVE	V	VOLT
C.W.	COLD WATER	V.A.C.	VOLTS ALTERNATING CURRENT
CHEM.	CHEMICAL	V.B.	VALVE BOX
CHG.	CHANGE	V.C.	VITREOUS CHINA
CHLSOL	CHLORINE SOLUTION	V.D.C.	VOLTS DIRECT CURRENT
CKT	CIRCUIT	V.S.	VALVE STAND
CL	CENTERLINE	V.T.R.	VENT THRU ROOF
C12	CHLORINE	VERT.	VERTICAL
CMU	CONCRETE MASONRY UNIT	VFD	VARIABLE FREQUENCY DRIVE
CO.	CLEANOUT	W	WIDE FLANGE / WIDE / WATT
COL	COLUMN	W.L.	WATER LEVEL
COMP	COMPRESSOR	W.S.	WALL SLEEVE / WATERSTOP / WATER SURFACE
CONC.	CONCRETE	W.W.F.	WELDED WIRE FABRIC
COND.	CONDENSER	W /	WITH
CONN.	CONNECTOR	WAS	WASTE ACTIVATED SLUDGE
CONST.	CONSTRUCTION	WC	TOILET (WATER CLOSET)
CONTD.	CONTINUED	WH	WATER HEATER
CONT.	CONTINUOUS	WK.	WEEK
CONTR.	CONTRACTOR	WP	WATERPROOFING
COP	COEFFICIENT OF PERFORMANCE	WSL	WASTE SLUDGE
CORP.	CORPORATION	WT	STRUCTURAL TEE
CORR.	CORRUGATED	XFMR	TRANSFORMER
CTRS.	CENTERS	YR.	YEAR
CU	COPPER		
CU.	CUBIC		
CYL	CYLINDER		
D	DEEP/DRAIN		
D.D.	DIRECT DRIVE		
D.I.P.	DUCTILE IRON PIPE		
D.O.	DISSOLVED OXYGEN		
DBL.	DOUBLE		
DETL.	DETAIL		
DET.	DETAIL		
DEW.	DEWATERING		
DIA.	DIAMETER		
DISCH.	DISCHARGE		
DISTR.	DISTRIBUTION		
DIV.	DIVISION		
DN	DOWN		
DPSL.	DIGESTED PRIMARY SLUDGE		
DS.	DOOR		
DT.	DIGESTER TANK		
DW	DEWATERING		
DWG.	DRAWING		
E-W	EAST-WEST		
E.F.	EACH FACE		
E.W.	EACH WAY		
E.W.H.	ELECTRIC WATER HEATER		
EA.	EACH		
ECC	ECCENTRIC		
EER	ENERGY EFFICIENCY RATIO		
EF	EXHAUST FAN		
EW	EACH WAY		
EWH	ELECTRIC WATER HEATER		
EA	EACH		
ECC	ECCENTRIC		
EER	ENERGY EFFICIENCY RATIO		
EF	EXHAUST FAN		
EFFL.	EFFLUENT		
EFW	EFFLUENT FLUSHING WATER		
EL./ELEV.	ELEVATION		
ELEC.	ELECTRICAL		
ELL	ELBOW		
EMERG.	EMERGENCY		
EQUIP.	EQUIPMENT		
ETC.	AND SO FORTH		
EXIST.	EXISTING		
EXP.	EXPOSED / EXPANSION		
EXT.	EXTERIOR		
F.A.	FREE AREA		
F.B.V.	FULL BEARING VALVE		
F.D.	FLOOR DRAIN		
F.M.	FORCE MAIN		
FERM.	FERMENTATION		
FIN.	FINISHED		
FLEX.	FLEXIBLE		
FLG.	FLANGE		
FLR.	FLOOR		
FT.	FOOT		
FTG.	FOOTING		
FVNR	FULL VOLTAGE NON REVERSING		
G.E.	GENERAL ELECTRIC		
G.P.M.	GALLONS PER MINUTE		
G.S.	GALVANIZED STEEL		
G.V.	GATE VALVE		
GAL	GALLON		
GALV.	GALVANIZED		
GEN.	GENERATOR		
GL.	GLAZED		
GRD./GR.	GRADE		
GSP	GALVANIZED STEEL PIPE		
GYP. BD.	GYPSUM BOARD		
H.	HALF/HIGH		
H.B.	HOSE BIBB		
H.C.	HOLLOW-CORE		
H.P.	HORSEPOWER		
H.R.	HANDRAIL		
H.V.	HIGH VELOCITY		
H.V.A.C.	HEATING, VENTILATION, & AIR CONDITIONING		
H.W.	HOT WATER		
HDWR	hardware		
HK.	HOCK		
HORIZ.	HORIZONTAL		
HRS.	HOURS		
HT.	HEIGHT		
HYD.	HYDRAULIC		
I	I-BEAM		
IND.	INDOOR / INDICATING		
INV.	INVERT		
JT.	JOINT		
KW	KILOWATTS		
L	ANGLE		
L.W.	LONG WAYS		
L.W.L	LOW WATER LEVEL		
LBS.	POUNDS		
LG.	LONG		
LIQ.	LIQUID		
LNDG.	LANDING		
LP	LIGHT PANEL		
LT.	LIGHT		
LTG.	LIGHTING		
LTS.	LIGHTS		
M	MOTOR		
M.H.	MANHOLE		
MA	MAILLAMP		
MAINT.	MAINTENANCE		
MATL.	MATERIAL		
MAX.	MAXIMUM		
MCC	MOTOR CONTROL CENTER		
MFG.	MANUFACTURING		
MFR.	MANUFACTURER		
MILS.	ONE THOUSANDTH OF AN INCH		
MIN.	MINIMUM		
N.T.S.	NOT TO SCALE		
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		
NO.	NUMBER		
NPT	NATIONAL PIPE THREAD		
Ø	DIAMETER / PHASE		
O.A.	OUTSIDE AIR		
O.B.	OPPOSED BLADE		
O.C.	ON CENTER		
OF	OVERFLOW		
OL	OVERLOAD		
OPNG.	OPENING		
OPP.	OPPOSITE		
OUTD.	OUTDOOR		
P.B.	PUSHBUTTON		
P.C.	PIPE COLUMN		
P.S.	PUMP STATION		
P.S.C.	PRE-STRESSED CONCENTRATE		
P.S.I.	POUNDS PER SQUARE INCH		
P.T.	POTENTIAL TRANSFORMER		
PTD	PAINTED		
P.V.	PLUG VALVE		
P.V.C.	POLYVINYL CHLORIDE PIPE		
PKG.	PACKAGE		
PL	PLATE		
PRESS.	PRESSURE		
PRV	PRESSURE RELIEF VALVE		
PT	POTENTIAL TRANSFORMER		
PTD.	PAINTED		
QTY.	QUANTITY		
R.	RADIUS / RISER / RELAY		
R.C.P.	REINFORCED CONCRETE PIPE		
R.P.M.	REVOLUTIONS PER MINUTE		
RAS	RETURN ACTIVATED SLUDGE		
RECPT.	RECEPTION		
RED.	REDUCING		
REF.	REFERENCE		
REINF.	REINFORCE		
REQD.	REQUIRED		

1. BASE DRAWING INFORMATION WAS OBTAINED FROM THE CITY OF CLEARWATER MARSHALL STREET WATER RECLAMATION FACILITY RECORD AND SHOP DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION AND THE ELEVATION OF ALL STRUCTURES, YARD PIPING, ELECTRICAL FACILITIES AND ASSOCIATED SYSTEMS PRIOR TO BIDDING.
 2. ALL BACKGROUND DRAWINGS WERE PROVIDED FROM PDF/TIFF FILES FURNISHED BY THE CITY OF CLEARWATER. SCALES ARE FOR REFERENCE PURPOSES ONLY. CONTRACTOR IS TO FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO ORDERING ANY MATERIALS OR EQUIPMENT.
 3. ALL WORK SHALL CONFORM TO THE CURRENT CITY OF CLEARWATER CONSTRUCTION STANDARDS WHICH ARE AVAILABLE AT WWW.MYCLEARWATER.COM.
 4. ALL DIGESTER LIQUIDS AND SOLIDS SHALL BE DISPOSED OF IN STRICT ACCORDANCE WITH THE SPECIFICATIONS.
 5. IT IS THE INTENT OF THESE DOCUMENTS THAT THE MARSHALL STREET WRF REMAIN IN SERVICE DURING CONSTRUCTION. THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL COOPERATE FULLY WITH OPERATIONS STAFF IN ORDER TO MINIMIZE DISRUPTION OF FACILITY OPERATION. THE CONTRACTOR MUST FIRST OBTAIN APPROVAL FROM THE CITY AND DIRECTION FROM THE ENGINEER BEFORE IMPACTING FACILITY OPERATIONS.
 6. CONTRACTOR TO PROVIDE MANIFESTS FOR EACH LOAD REMOVED FROM THE SITE. CONTRACTOR TO PROVIDE DOCUMENTATION THAT ALL OF THE MATERIALS AND DIGESTER CONTENTS HAVE BEEN PROPERLY DISPOSED OF. CONTRACTOR TO NOTIFY PROJECT MANAGER IF ANY MATERIAL IS DETERMINED TO BE HAZARDOUS WASTE OR DISPOSED OF AS HAZARDOUS WASTE.



DETAIL TITLE TARGET



SECTION TITLE TARGET

BID DOCUMENTS



4921 Memorial Highway
One Memorial Center, Suite 300
Tampa, Florida 33634
Phone: (813) 880-8881
www.Arthurra.com

RECORD DRAWINGS			
SURVEYED BY:	DRAWN BY:		
REVIEWED BY:			
PROJECT ENGINEER		DATE	
APPROVED BY:			
ENGINEER		DATE	REVISION BY

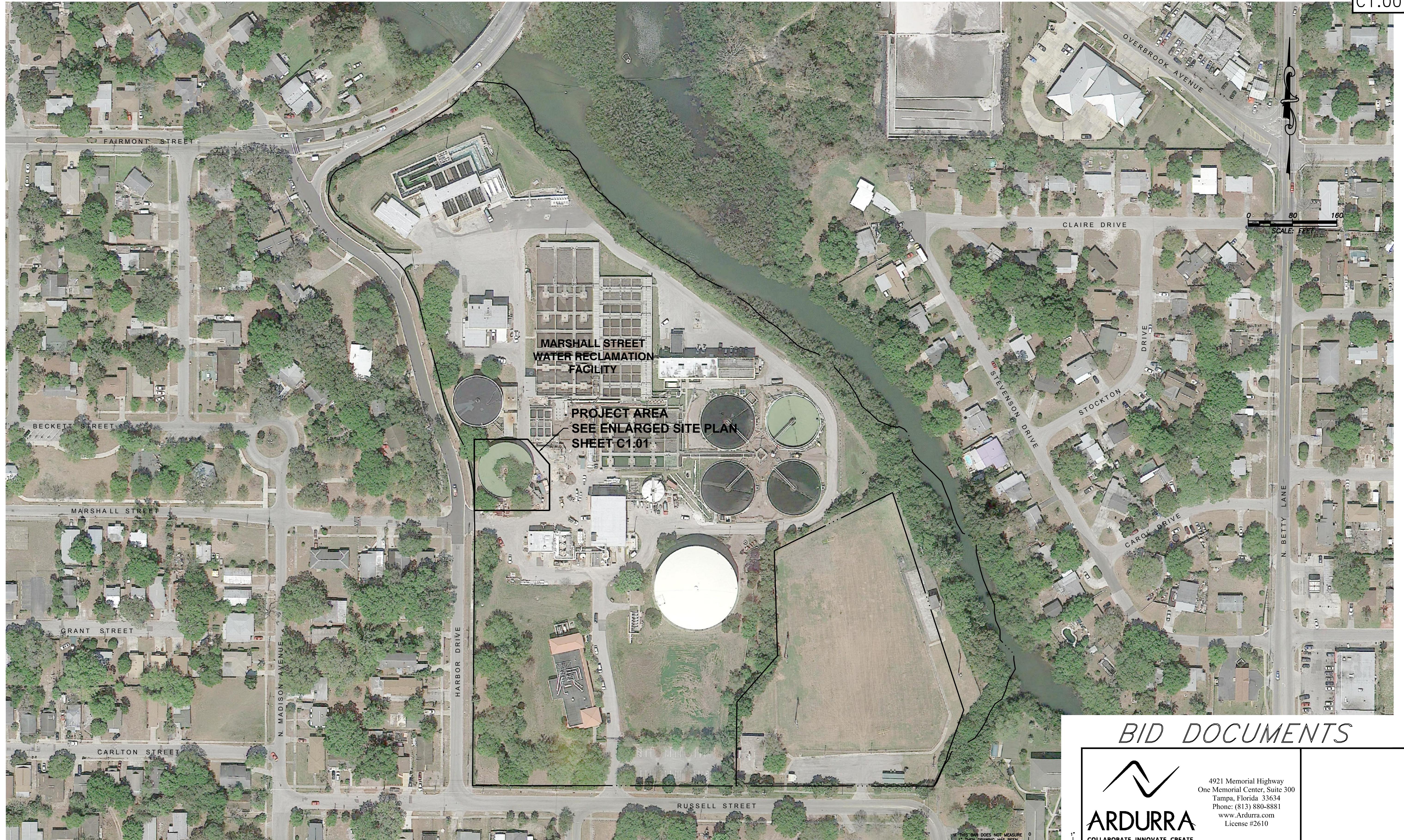
CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER FL 33756



MARSHALL STREET WRF DIGESTER DEMOLITION

ABBREVIATIONS, NOTES AND LEGENDS

DWG NAME: <u>G0.01</u>	FIELD BOOK:	SURVEYED BY: —	SCALE: VERT. <u>N/A</u>
CONTRACT NO.: <u>09-0024-UT</u>	DATE DRAWN: <u>DEC 2013</u>	DRAWN BY: <u>MJG</u>	HORIZ. <u>N/A</u>
JOB NO.: <u>2014032</u>	DESIGNED BY: <u>MJG</u>	CHECKED BY: <u>TAT</u>	SHEET NO.: <u>2 OF 19</u>
APPROVED FOR CONSTRUCTION			



BID DOCUMENTS



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Tampa, Florida 33634
Phone: (813) 880-8881
www.Ardurra.com
License #2610

RECORD DRAWINGS			
SURVEYED BY:	DRAWN BY:		
REVIEWED BY:			
PROJECT ENGINEER	DATE		
APPROVED BY:			
ENGINEER	DATE		
		REVISION	BY DATE

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756



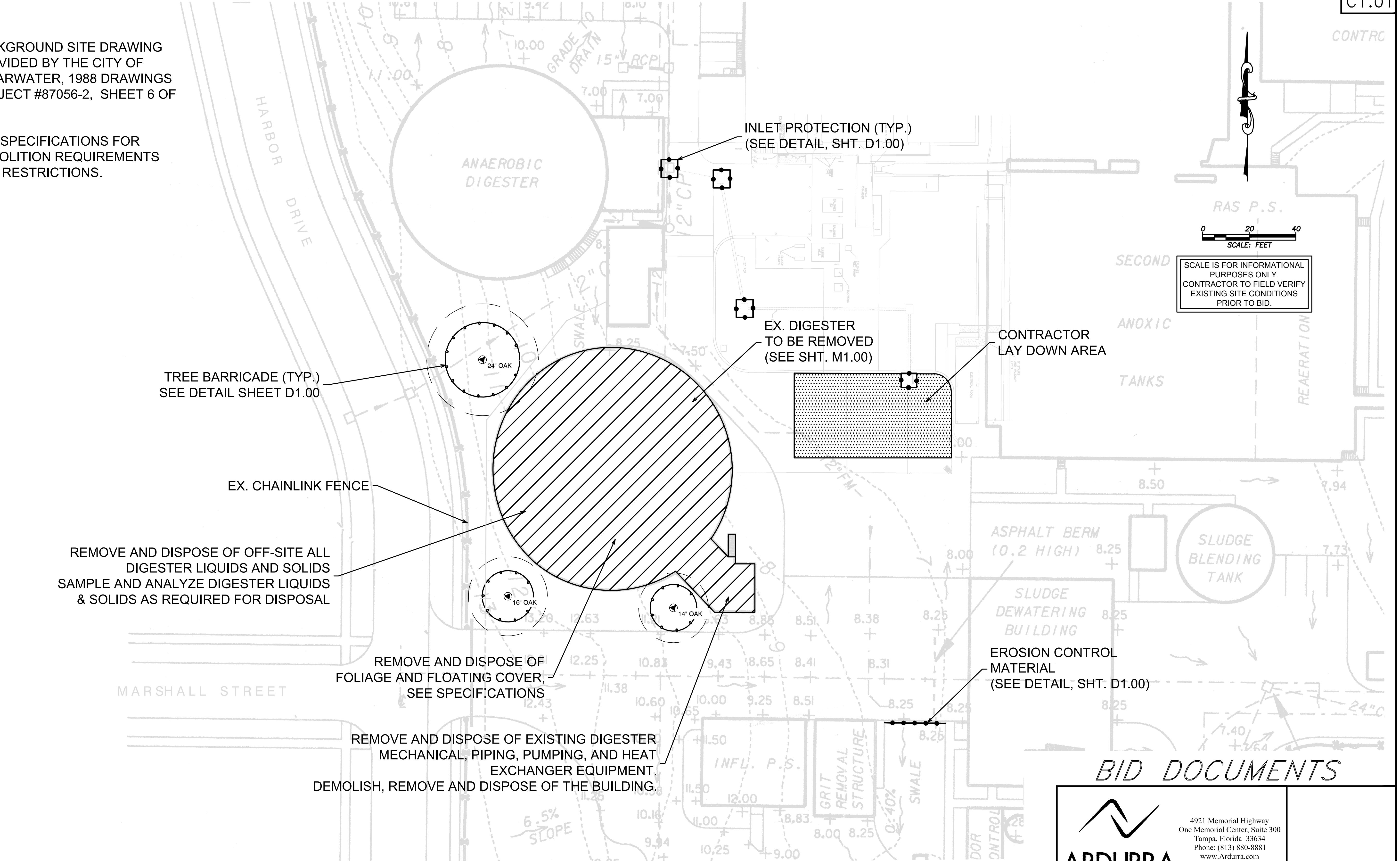
MARSHALL STREET WRF DIGESTER DEMOLITION

OVERALL SITE PLAN

DWG NAME: C1.00	FIELD BOOK: —	SURVEYED BY: VERT. N/A	SCALE: HORIZ. N/A
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	
JOB NO.: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	SHEET NO.: 3 OF 19

NOTE:

1. BACKGROUND SITE DRAWING PROVIDED BY THE CITY OF CLEARWATER, 1988 DRAWINGS PROJECT #87056-2, SHEET 6 OF 183.
2. SEE SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND RESTRICTIONS.



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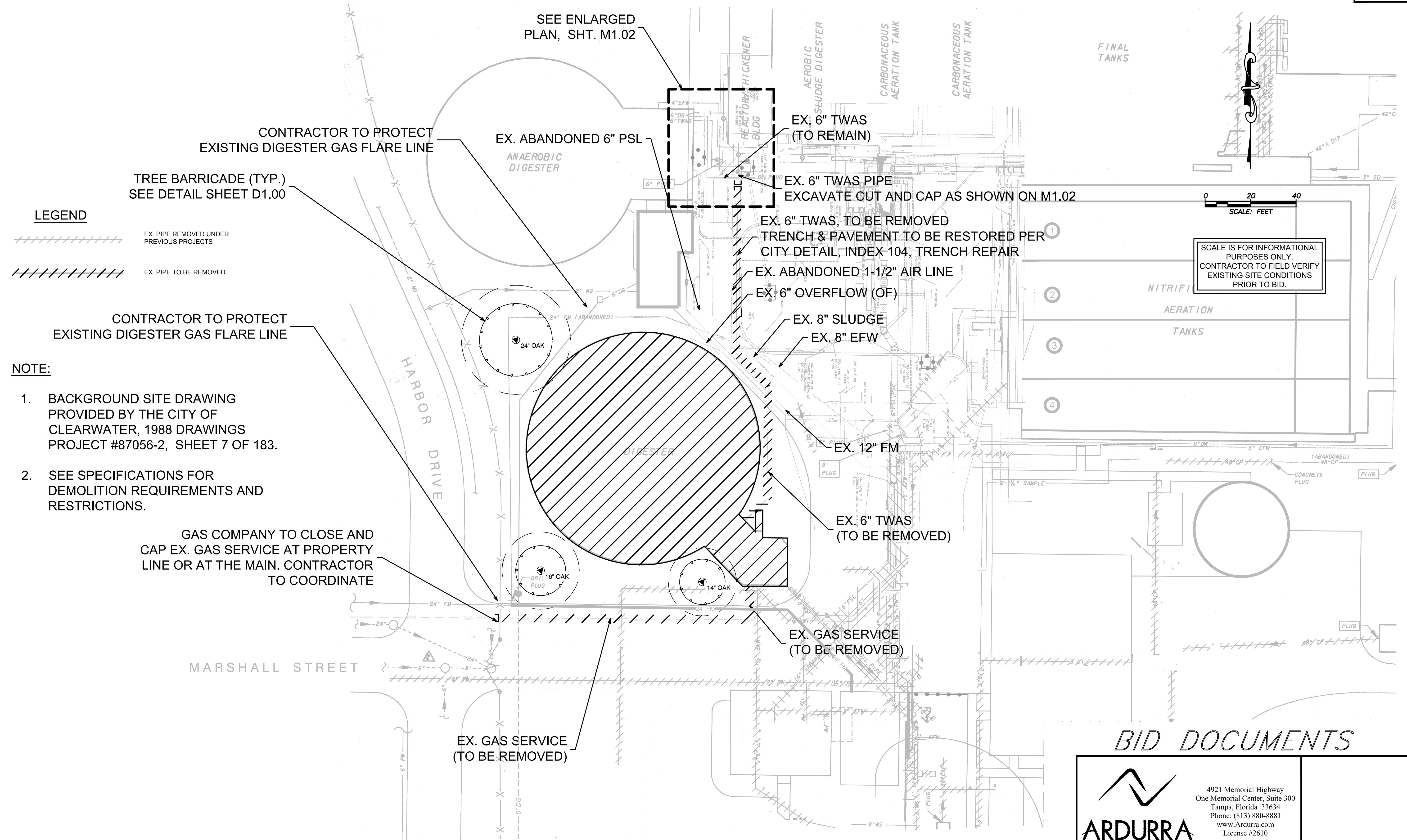
RECORD DRAWINGS	DRAWN BY:	DATE
SURVEYED BY:	DRAWN BY:	DATE
REVIEWED BY:	DRAWN BY:	DATE
PROJECT ENGINEER		
APPROVED BY:		
ENGINEER		
REVISION	BY	DATE

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756



MARSHALL STREET WRF DIGESTER DEMOLITION
SITE DEMOLITION PLAN

DWG NAME: C1.01	FIELD BOOK:	SURVEYED BY: _____	SCALE: VERT. N/A
CONTRACT NO: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	HORIZ. N/A
JOB NO: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	SHEET NO: 4 OF 19
APPROVED FOR CONSTRUCTION			



RECORD DRAWINGS	DRAWN BY:	DATE
SURVEYED BY:	DRAWN BY:	DATE
REVIEWED BY:	DRAWN BY:	DATE
PROJECT ENGINEER		
APPROVED BY:		
ENGINEER		
REVISION	BY	DATE

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756



MARSHALL STREET WRF DIGESTER DEMOLITION
YARD PIPING DEMOLITION SITE PLAN

DWG NAME: C1.02	FIELD BOOK: -	SURVEYED BY: VERT. N/A	SCALE: HORIZ. N/A
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	FIELD BOOK: -
JOB NO.: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	SURVEYED BY: HORIZ. N/A
APPROVED FOR CONSTRUCTION			SHEET NO.: 5 OF 19



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License #2610

CONTRO

LEGEND

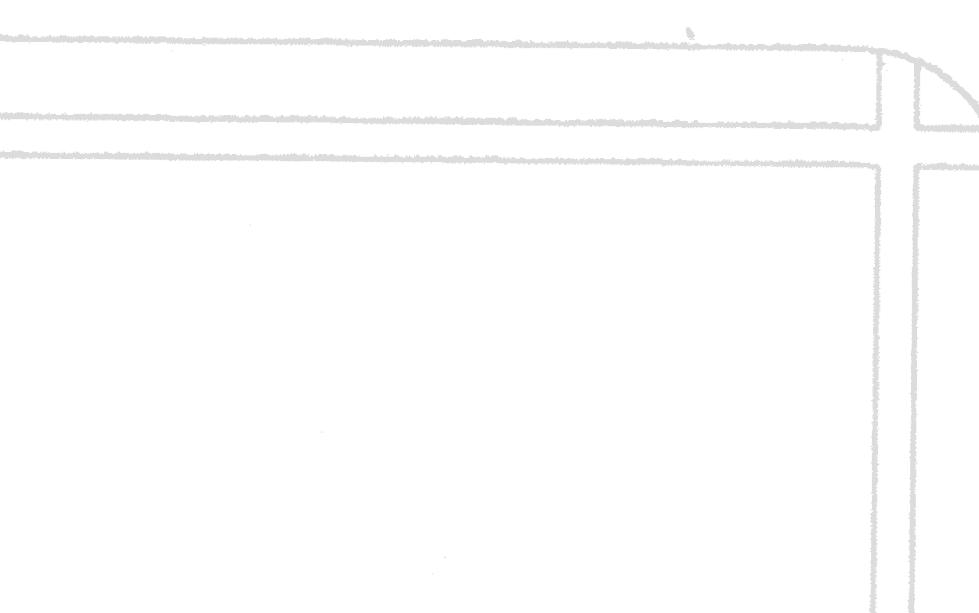
- EXISTING CONTOURS
- PROPOSED CONTOURS

NOTE:

1. BACKGROUND SITE DRAWING PROVIDED BY THE CITY OF CLEARWATER, 1988 DRAWINGS PROJECT #87056-2, SHEET 6 OF 183 .

TREE BARRICADE
SEE DETAIL SHEET D1.00

MARSHALL STREET



CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756



SAWCUT PAVEMENT FOR TWAS PIPEWORK
SEE SHEET C1.02 & M1.02 BACK FILL AND RESTORE
TRENCH AND PAVEMENT PER CLEARWATER STREET
SECTION AND DETAILS INDEX 104 FOR TRENCH REPAIR

0 20 40
SCALE: FEET

SCALE IS FOR INFORMATIONAL
PURPOSES ONLY.
CONTRACTOR TO FIELD VERIFY
EXISTING SITE CONDITIONS
PRIOR TO BID.

AREA LEFT VOID BY THE DEMOLITION OF THE
DIGESTER TO BE FILLED AND GRADED AS SHOWN.
FOLLOWING DEMOLITION, THE CONTRACTOR SHALL
COMPACT THE EXISTING SOIL AND PROVIDE
TOPOGRAPHICAL SURVEY OF THE SITE PRIOR TO
FILLING AND GRADING. THE CONTRACTOR SHALL
RE-SURVEY THE SITE FOLLOWING FILLING AND
GRADING TO DETERMINE VOLUME OF FILL MATERIAL
PLACED. SUBMIT PRE AND POST SURVEYS TO THE
ENGINEER. SITE TO BE SODDED FOLLOWING FINAL
GRADING AND SURVEYING.

SECOND

ANOXIC

TANKS

REAERATION

ASPHALT BERM
(0.2 HIGH) 8.25
+ 8.50

SLUDGE
DEWATERING
BUILDING

SLUDGE
BLENDING
TANK

BID DOCUMENTS



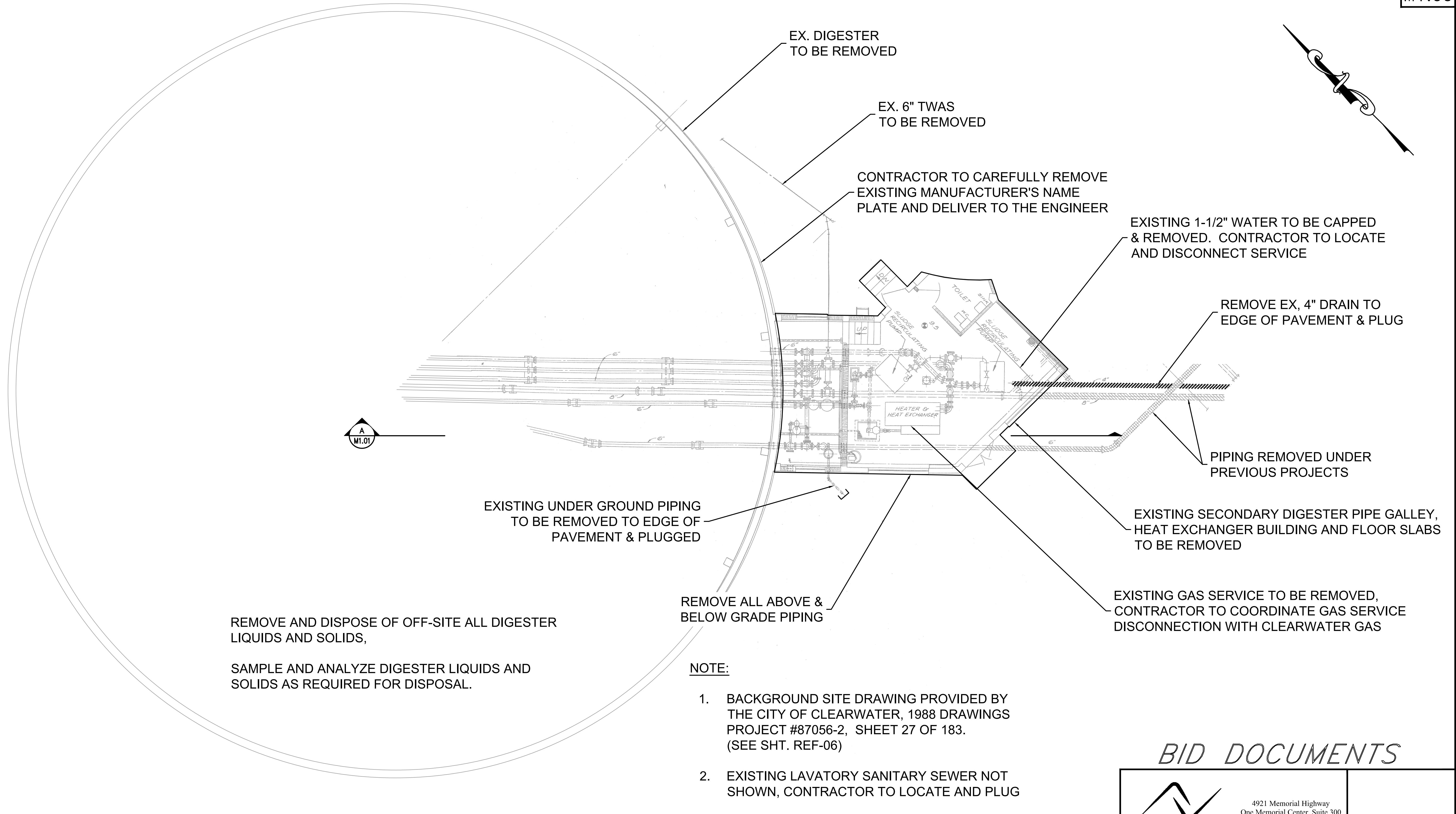
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www.Ardurra.com
License #2610

IF THIS BAR DOES NOT MEASURE
1", THEN DRAWING HAS BEEN
REDUCED SCALE ACCORDINGLY

RECORD DRAWINGS	DRAWN BY:	DATE
SURVEYED BY:	DRAWN BY:	DATE
REVIEWED BY:	DATE	DATE
PROJECT ENGINEER		
APPROVED BY:		
ENGINEER		
REVISION	BY	DATE

MARSHALL STREET WRF DIGESTER DEMOLITION
PAVING, GRADING & DRAINAGE PLAN

DWG NAME: C1.03	FIELD BOOK: —	SURVEYED BY: VERT. N/A	SCALE: HORIZ. N/A
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	FIELD NO.: 6 OF 19
JOB NO.: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	APPROVED FOR CONSTRUCTION

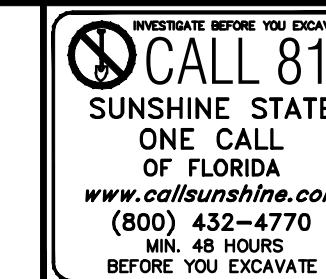


BID DOCUMENTS



RECORD DRAWINGS	DRAWN BY:		
SURVEYED BY:			
REVIEWED BY:			
PROJECT ENGINEER	DATE		
APPROVED BY:			
ENGINEER	DATE		
REVISION	BY	DATE	

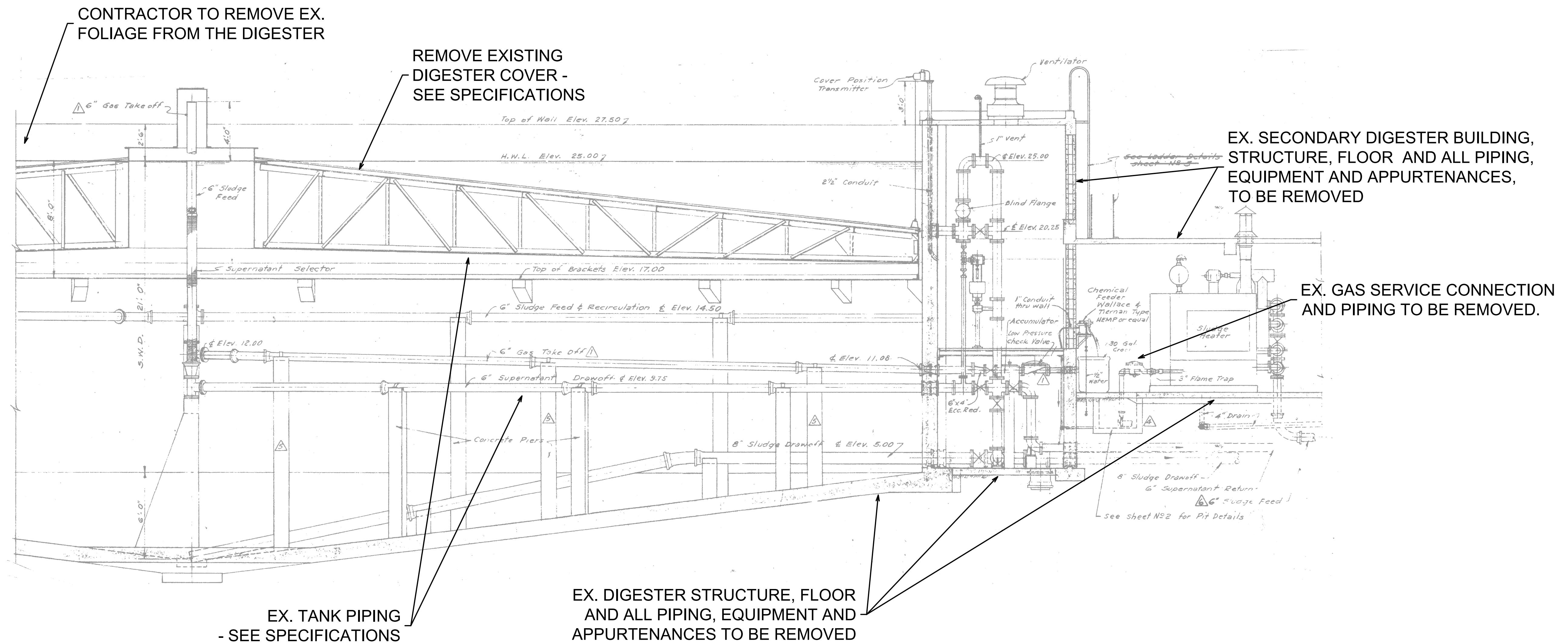
CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756



MARSHALL STREET WRF DIGESTER DEMOLITION

ENLARGED SITE PLAN

DWG NAME: M1.00	FIELD BOOK:	SURVEYED BY: _____	SCALE: VERT. N/A
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	HORIZ. N/A
JOB NO.: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	SHEET NO.: 7 OF 19
APPROVED FOR CONSTRUCTION			

NOTE:

- ① THE DIGESTER, PIPING ROOM OR HEAT EXCHANGER BUILDING MAY BE SUPPORTED ON PILES. IF PILES ARE FOUND DURING THE DEMOLITION OF THESE STRUCTURES, THE CONTRACTOR SHALL EXCAVATE ENOUGH SOIL FOR THE TOPS OF THE PILES TO ESTABLISH THE DIAMETER, CENTERLINE AND LAYOUT OF THE ENTIRE PILE SYSTEM. A SIGNED AND SEALED HORIZONTAL AND VERTICAL SURVEY OF THE TOP OF THE PILES SHALL BE PROVIDED BY THE CONTRACTOR.
- ② BACKGROUND SITE DRAWING PROVIDED BY THE CITY OF CLEARWATER, 1988 DRAWINGS PROJECT #87056-2, SECTION C, SHEET 28 OF 183 (SEE SHT. REF-07)

SECTION

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

A
M1.00IF THIS BAR DOES NOT MEASURE
1" THEN DRAWING HAS BEEN
REDUCED SCALE ACCORDINGLY

RECORD DRAWINGS	DRAWN BY:		
SURVEYED BY:			
REVIEWED BY:			
PROJECT ENGINEER	DATE		
APPROVED BY:			
ENGINEER	DATE		
REVISION	BY	DATE	

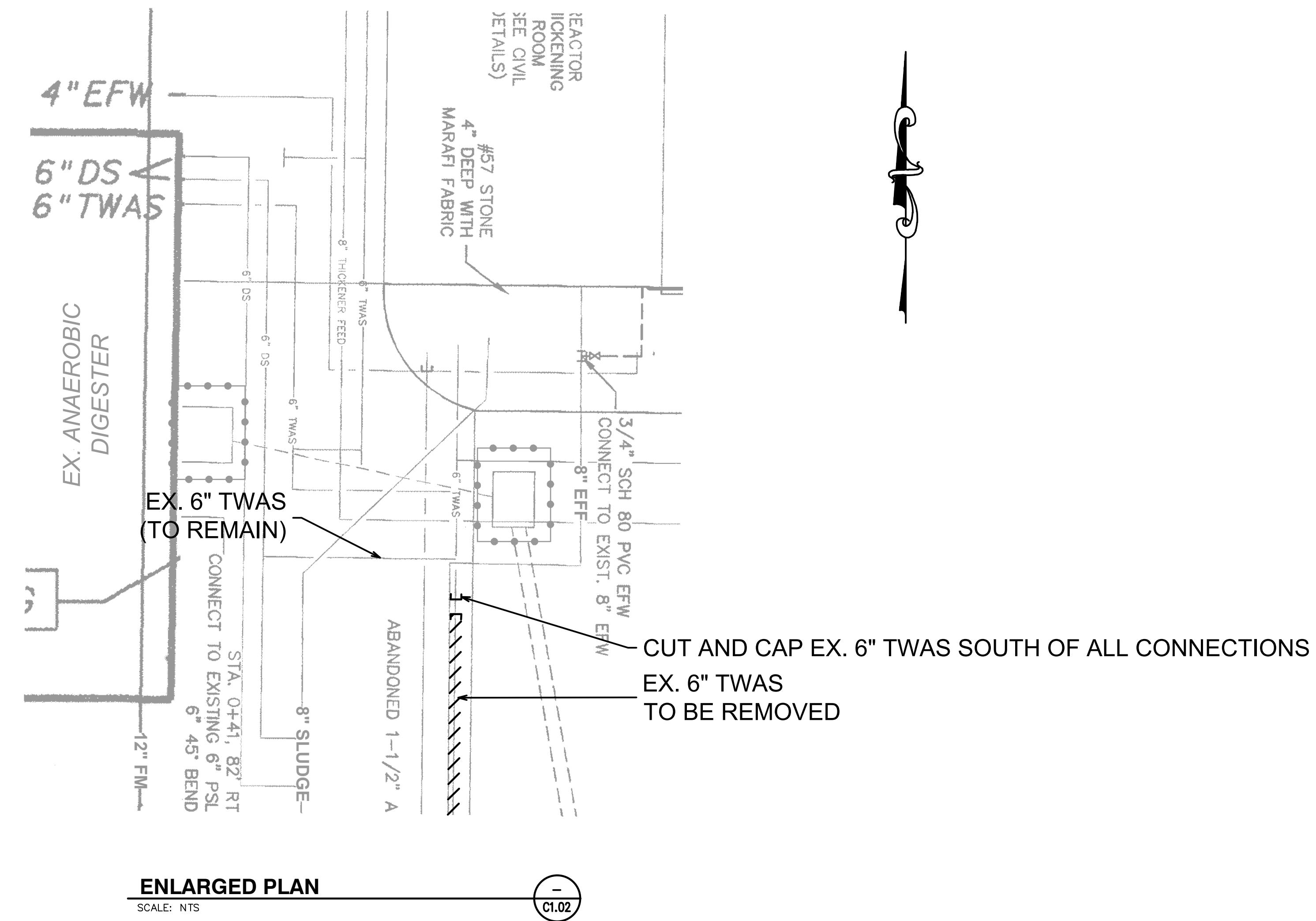
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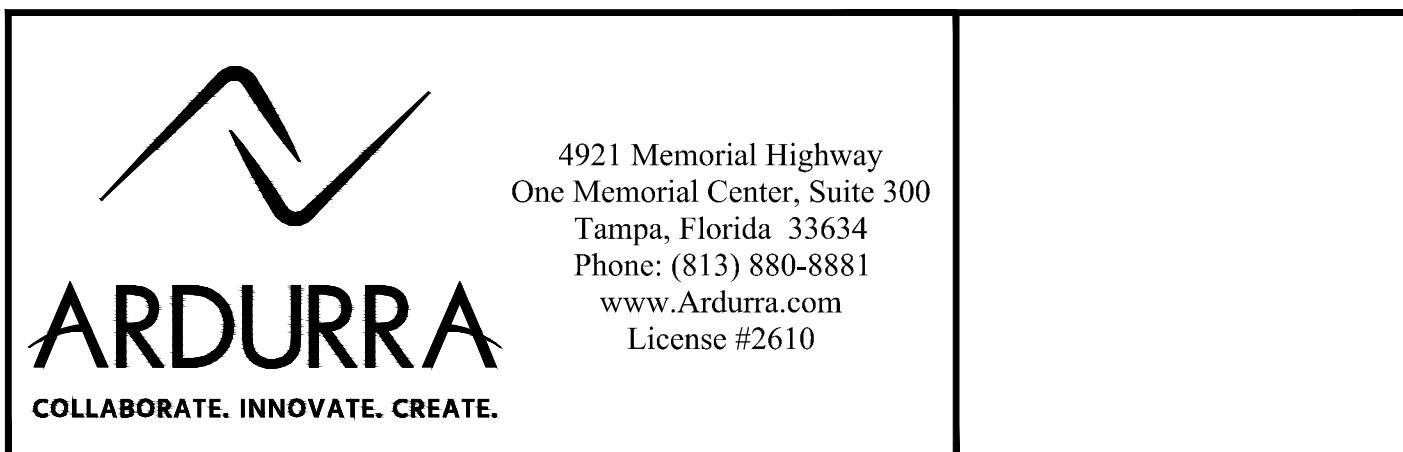
MARSHALL STREET WRF DIGESTER DEMOLITION

EXISTING DIGESTER SECTION

DWG NAME: M1.01	FIELD BOOK: —	SURVEYED BY: VERT. N/A	SCALE: HORIZ. N/A
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	
JOB NO.: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	SHEET NO.: 8 OF 19
APPROVED FOR CONSTRUCTION			

NOTE:

1. BACKGROUND SITE DRAWING PROVIDED BY THE CITY OF CLEARWATER, 1985 DRAWINGS PROJECT #84141-2, SHEET 7 OF 23 AND 2012 DRAWINGS PROJECT #06-0022-UT, SHEET C-04.

BID DOCUMENTS

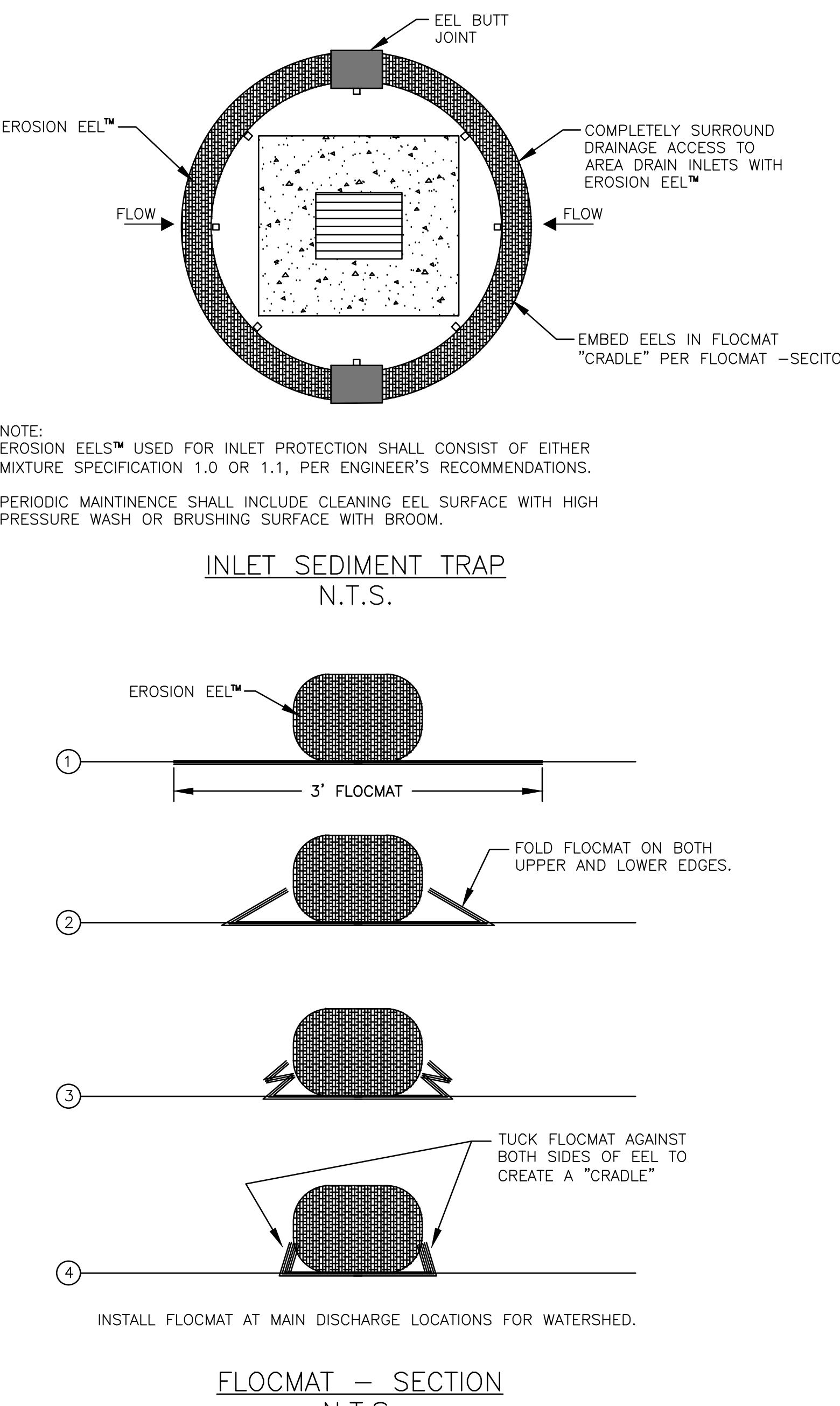
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SURVEYED BY:	DRAWN BY:		
REVIEWED BY:			
PROJECT ENGINEER	DATE		
APPROVED BY:			
ENGINEER	DATE		

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756



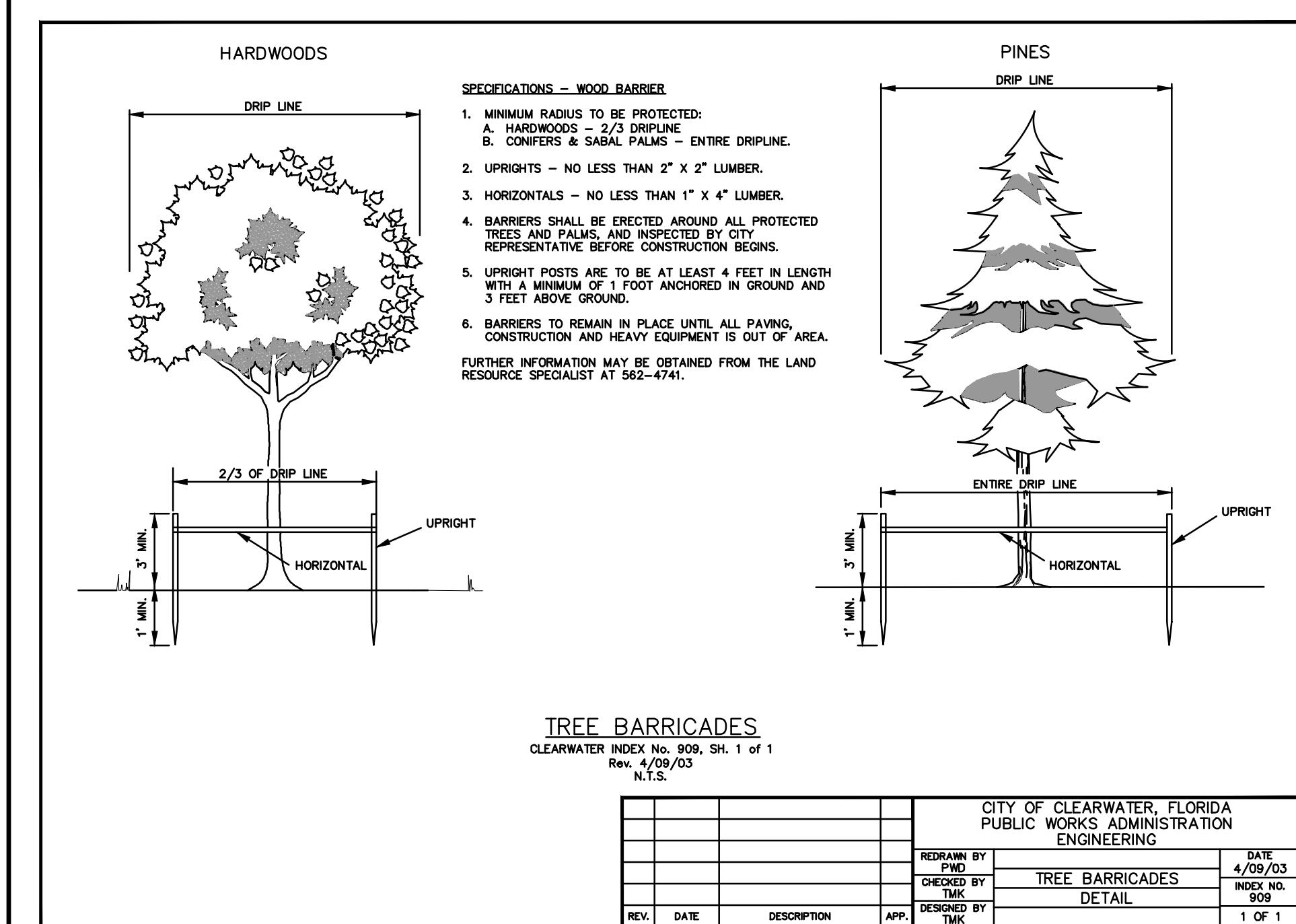
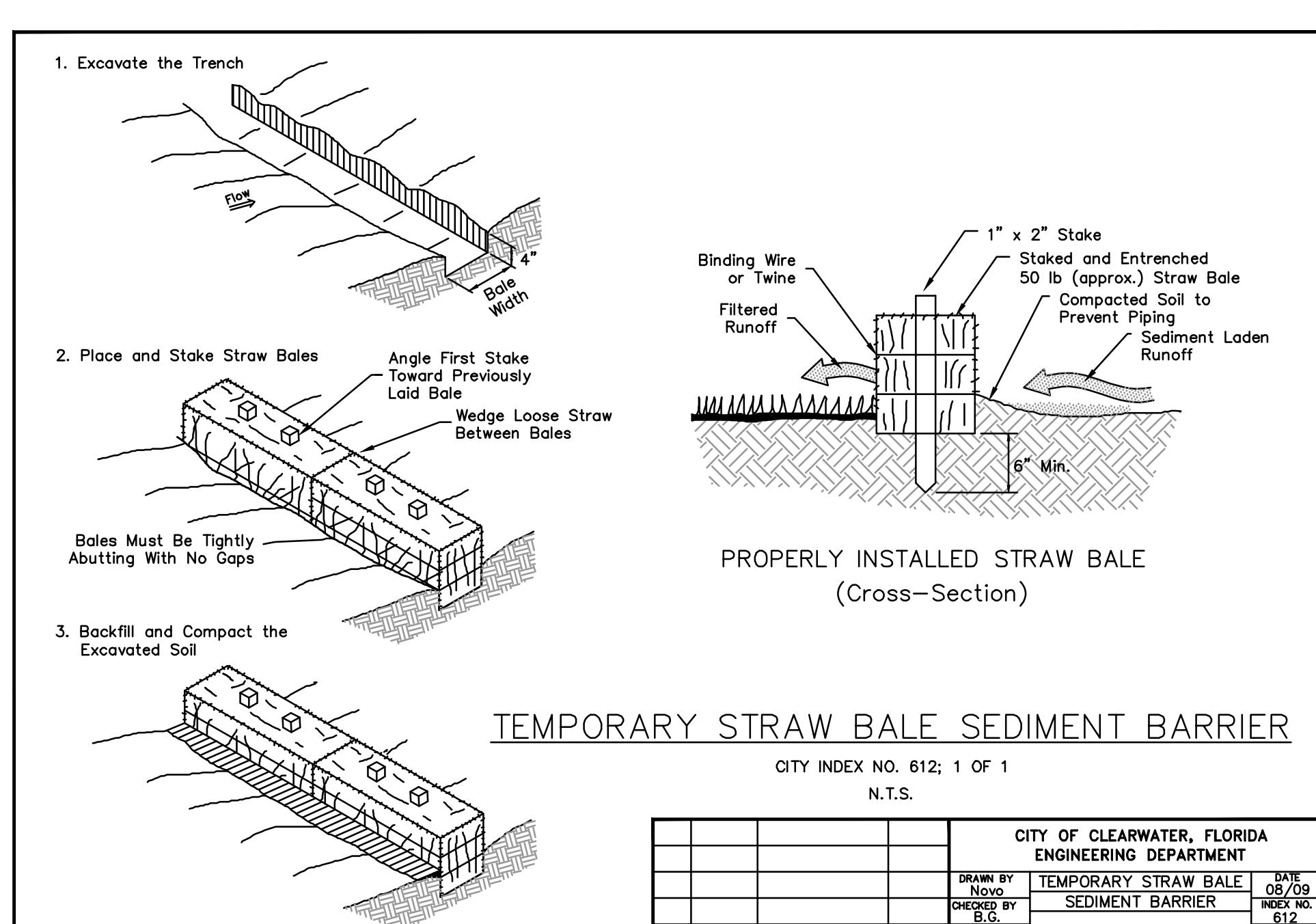
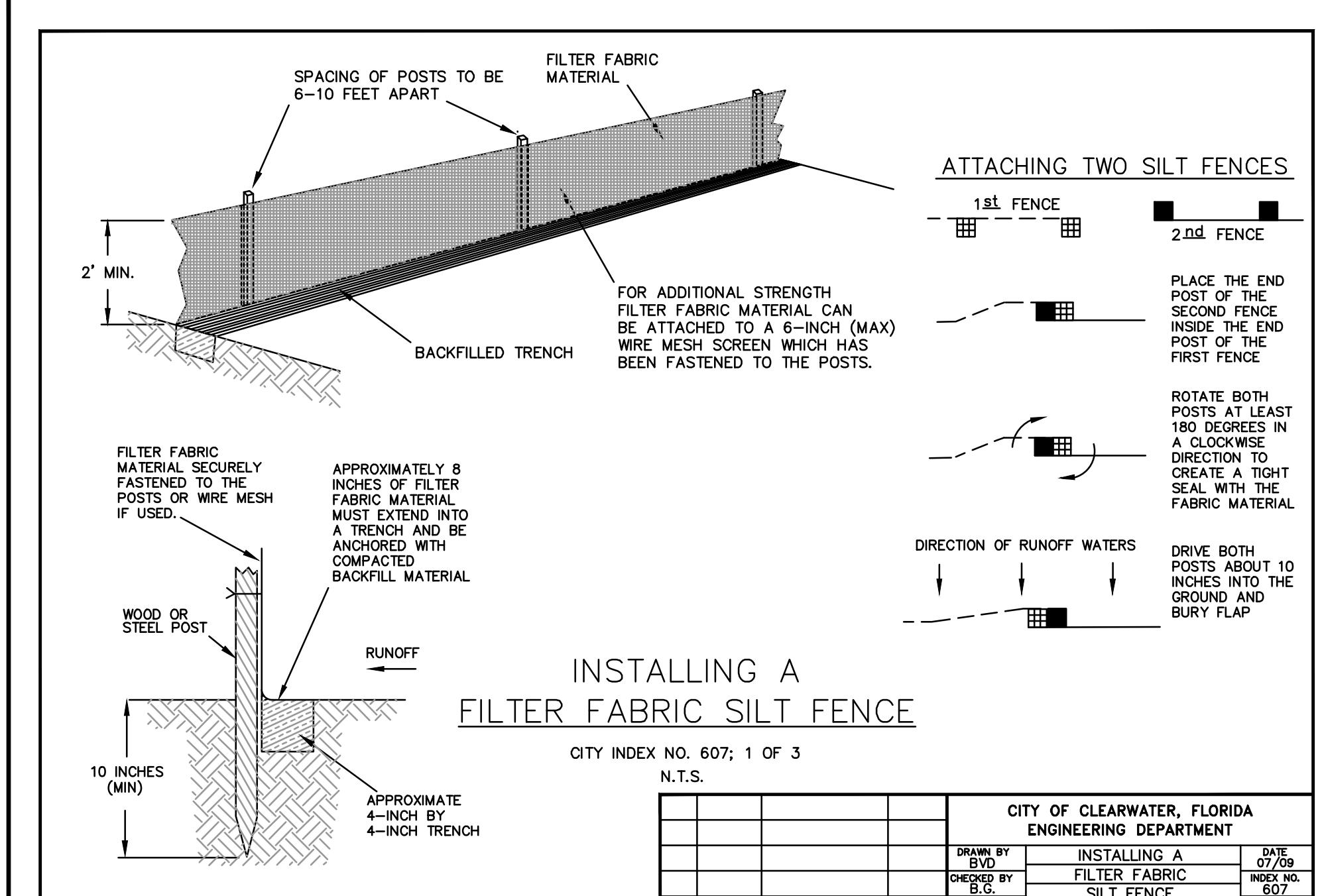
MARSHALL STREET WRF DIGESTER DEMOLITION
TWAS PIPE ABANDONMENT PLAN

DWG NAME: M1.02	FIELD BOOK: -	SURVEYED BY: VERT. N/A	SCALE: HORIZ. N/A
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	
JOB NO.: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	SHEET NO.: 9 OF 19
APPROVED FOR CONSTRUCTION			

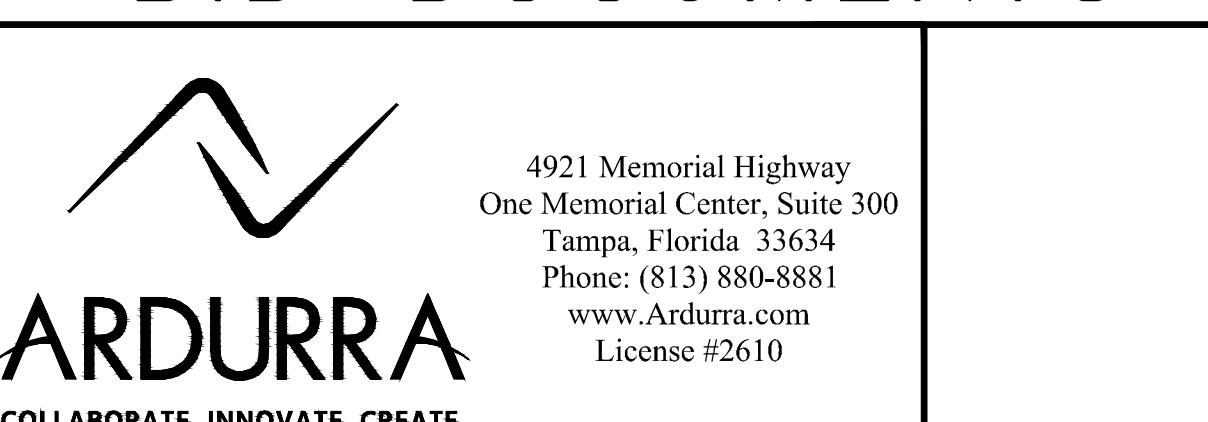


- GENERAL NOTES:**
1. EROSION EELS™ USED IN PERIMETER CONTROL APPLICATIONS SHALL HAVE A SPECIFICATION MIXTURE 1.1 OR 1.2.
 - a. MIXTURE SPECIFICATION 1.1, A FILTER MIXTURE COMPRISED OF 50% SHREDDED RUBBER AND 50% WOOD CHIP PARTICLES BY VOLUME. THE SHREDDED RUBBER SHALL BE WASHED AND PROCESSED TO REMOVE MOST, IF NOT ALL, METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/- 3/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFIRM TO AASHTO CERTIFICATION SPECIFICATION MP 9-03.
 - b. MIXTURE SPECIFICATION 1.2, A FILTER MIXTURE COMPRISED OF 1/3 SHREDDED RUBBER, 1/3 WOOD CHIPS, AND 1/3 RECYCLED SYNTHETIC FIBERS. THE SHREDDED RUBBER SHALL BE WASHED AND PROCESSED TO REMOVE MOST, IF NOT ALL, METAL COMPONENTS. THE RUBBER SHALL BE DERIVED FROM RECYCLED TIRES AND SHALL BE SHREDDED TO PRODUCE A MAXIMUM PARTICLE SIZE OF +/- 3/4 INCH. THE WOOD CHIPS SHALL BE PRODUCED FROM HARDWOOD TREES AND SHALL CONFIRM TO AASHTO CERTIFICATION SPECIFICATION MP 9-03. THE SYNTHETIC FIBERS SHALL BE PRODUCED FROM RECYCLED, MANUFACTURED MATERIALS, SUCH AS, BUT NOT LIMITED TO, PRE-CONSUMER SCRAP CARPET, TIRE CHORD, AND TIRE MATERIALS.
 2. EROSION EELS™ SHALL BE MANUFACTURED FROM A WOVEN GEOTEXTILE COVERING WITH INTERIOR FILTER MATERIALS SUCH AS 100% SHREDDED RUBBER (MIXTURE SPECIFICATION 1.0, 50% SHREDDED RUBBER/50% AASHTO-CERTIFIED WOOD CHIPS (MIXTURE SPECIFICATION 1.1).
 3. LENGTHS OF EROSION EELS™ SHALL BE EITHER A NOMINAL +/- 10 FT. OR +/- 4.5 FT. NOMINAL DIAMETER SHALL BE +/- 9.5 INCHES.
 4. EROSION EELS™ SHALL BE INSTALLED ALONG THE GROUND CONTOUR, AT THE TOE OF SLOPES, AT AN ANGLE TO THE CONTOUR TO DIRECT FLOW AS A DIVERSION BERM, AROUND INLET STRUCTURES, IN A DITCH AS A CHECK DAM TO HELP REDUCE SUSPENDED SOLIDS LOADING AND RETAIN SEDIMENT, OR AS A GENERAL FILTER FOR ANY DISTURBED SOIL AREA.
 5. NO TRENCHING IS REQUIRED FOR INSTALLATION OF EROSION EELS
 6. PREPARE BED FOR EEL INSTALLATION BY REMOVING ANY LARGE DEBRIS INCLUDING ROCKS, SOIL CLOUDS, AND WOODY VEGETATION. EROSION EELS CAN ALSO BE PLACED OVER PAVED SURFACES INCLUDING CONCRETE AND ASPHALT WITH NO SURFACE PREPARATION REQUIRED.

INLET PROTECTION DETAIL
N.T.S.



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING HAS BEEN REDUCED SCALE ACCORDINGLY



RECORD DRAWINGS	DRAWN BY:		
SURVEYED BY:	DRAWN BY:		
REVIEWED BY:			
PROJECT ENGINEER	DATE		
APPROVED BY:			
ENGINEER	DATE		

O:\ENV\ENG2110\21021\0001\CAD\CDSD1.00.dwg, January 18, 2021 3:25 PM

**CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT**
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

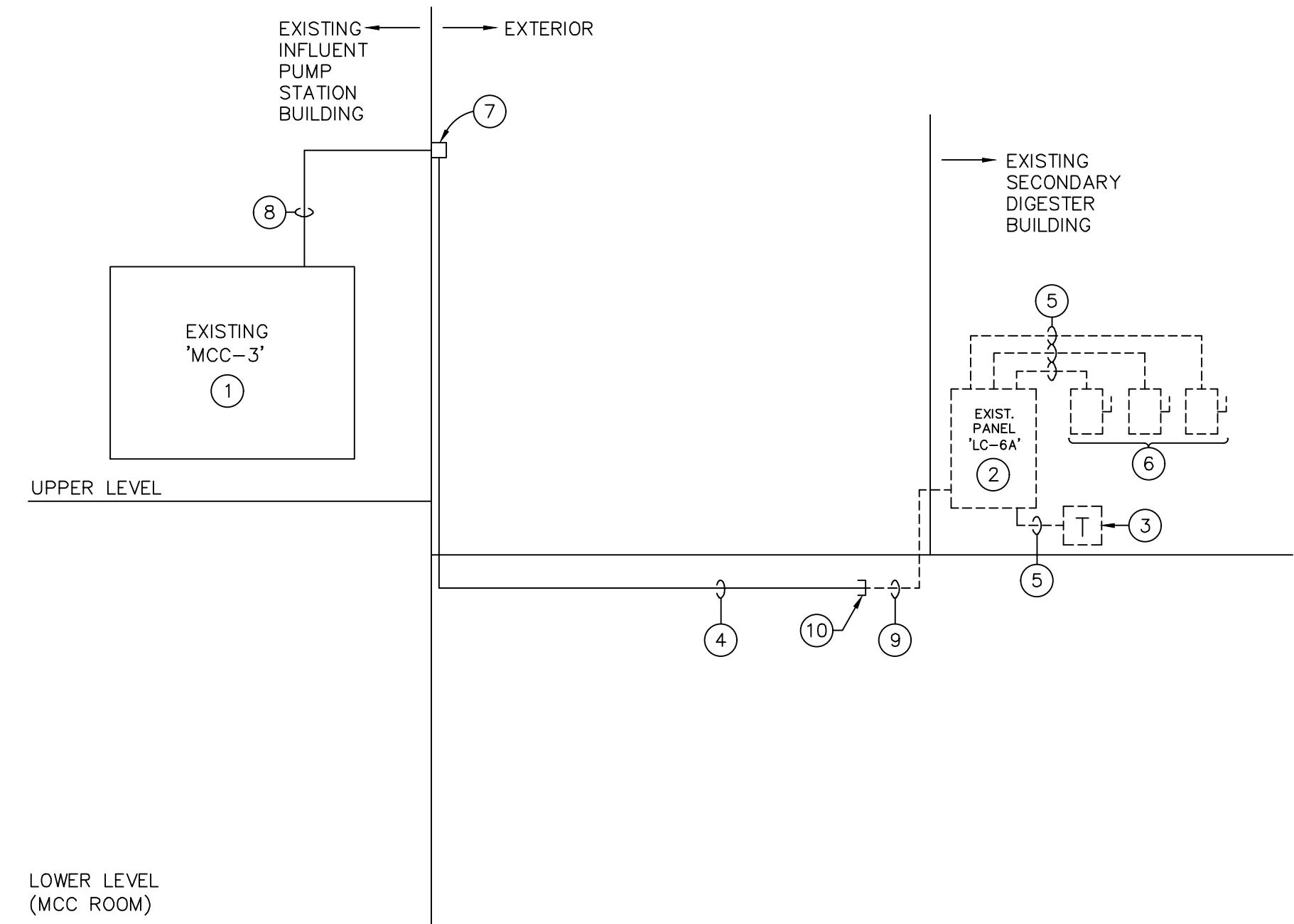
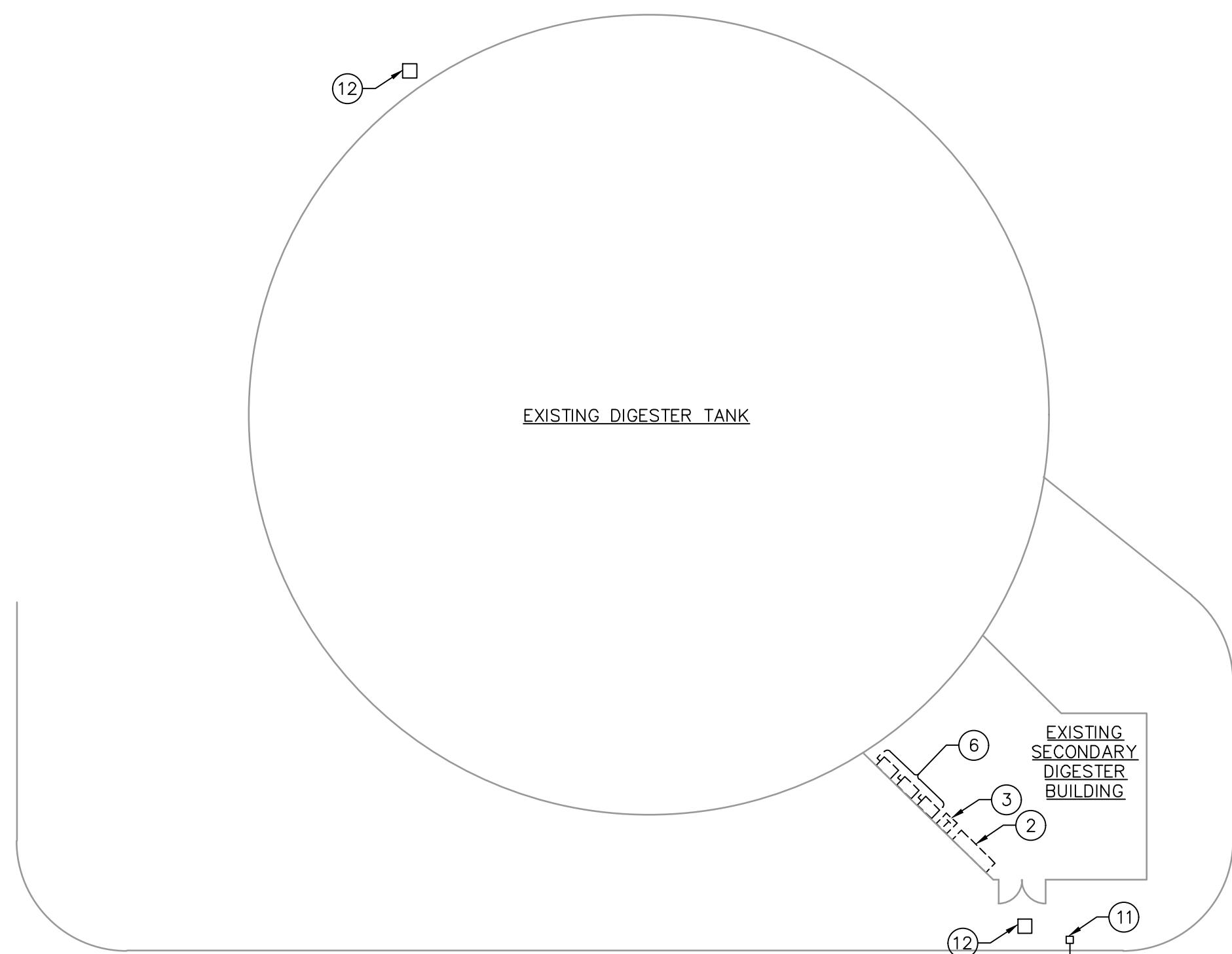


MARSHALL STREET WRF DIGESTER DEMOLITION

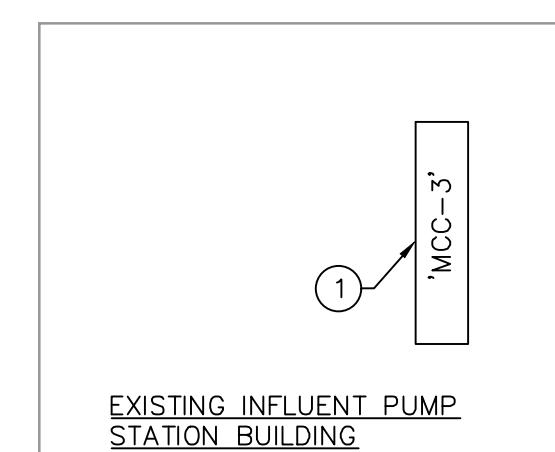
MISCELLANEOUS DETAILS

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
D1.00			VERT. N/A
09-0024-UT	DEC 2013	MJG	HORIZ. N/A
2014032	DESIGNED BY:	CHECKED BY:	SHEET NO.: 10 OF 19
	MJG	TAT	

APPROVED FOR CONSTRUCTION



POWER ONE-LINE DIAGRAM (DEMOLITION)
NOT TO SCALE



ELECTRICAL DEMOLITION PLAN

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

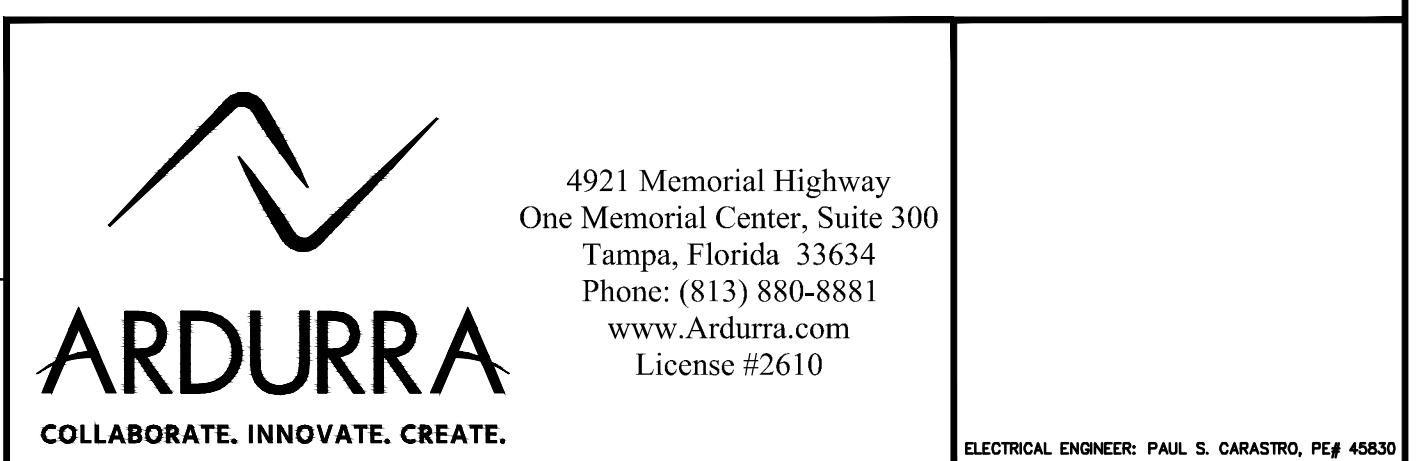
GENERAL DEMOLITION NOTES:

1. ALL CONDUIT, CONDUCTORS, OUTLET BOXES, ETC. TO BE REMOVED. VERIFY LOCATIONS AND QUANTITIES OF ELECTRICAL EQUIPMENT AND WIRING AT THE SITE. WHERE REMOVAL IS NOT POSSIBLE, CONDUIT SHALL BE TAGGED. ALL MATERIALS REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.
2. ANY DEMOLITION OR REMOVAL INDICATED IS SHOWN TO PROVIDE THE GENERAL EXTENT OF DEMOLITION. THIS INFORMATION IS NOT A RECORD DRAWING OF EXISTING CONDITIONS.
3. CONTRACTOR TO CONFIRM IF PANELBOARD, TRANSFORMER, AND DISCONNECT SWITCHES ARE DE-ENERGIZED PRIOR TO DEMOLITION.

DRAWING NOTES:

- (1) EXISTING MOTOR CONTROL CENTER 'MCC-3' TO REMAIN.
- (2) EXISTING CONTROL PANEL/PANELBOARD 'LC-6A' TO BE REMOVED.
- (3) EXISTING 15 KVA 480-120/208V, 3PH., 4W. TRANSFORMER TO BE REMOVED.
- (4) EXISTING 1" (EMPTY) CONDUIT TO BE ABANDONED.
- (5) EXISTING CONDUIT AND WIRE TO BE REMOVED.
- (6) EXISTING DISCONNECT SWITCHES TO BE REMOVED.
- (7) EXISTING JUNCTION BOX TO REMAIN.
- (8) EXISTING 1" (EMPTY) CONDUIT TO REMAIN.
- (9) EXISTING 1" (EMPTY) CONDUIT TO BE REMOVED.
- (10) CAP-OFF AND LABEL AS SPARE.
- (11) EXISTING SITE LIGHTING AND POLE TO REMAIN.
- (12) EXISTING (BELOW GRADE) PULL BOX TO REMAIN.

BID DOCUMENTS



4921 Memorial Highway
One Memorial Center, Suite 300
Tampa, Florida 33634
Phone: (813) 880-8881
www.Ardurra.com
License #2610

CARASTRO & ASSOCIATES, INC.
CONSULTING ENGINEERS EB-0001180
2609 W. DE LEON STREET TAMPA, FLORIDA 33609
TELEPHONE: (813) 874-9494 FAX: (813) 874-3794

ELECTRICAL ENGINEER: PAUL S. CARASTRO, PE# 45830

RECORD DRAWINGS				
SURVEYED BY:	DRAWN BY:			
REVIEWED BY:				
PROJECT ENGINEER	DATE			
APPROVED BY:				
ENGINEER	DATE	REVISION	BY	DATE

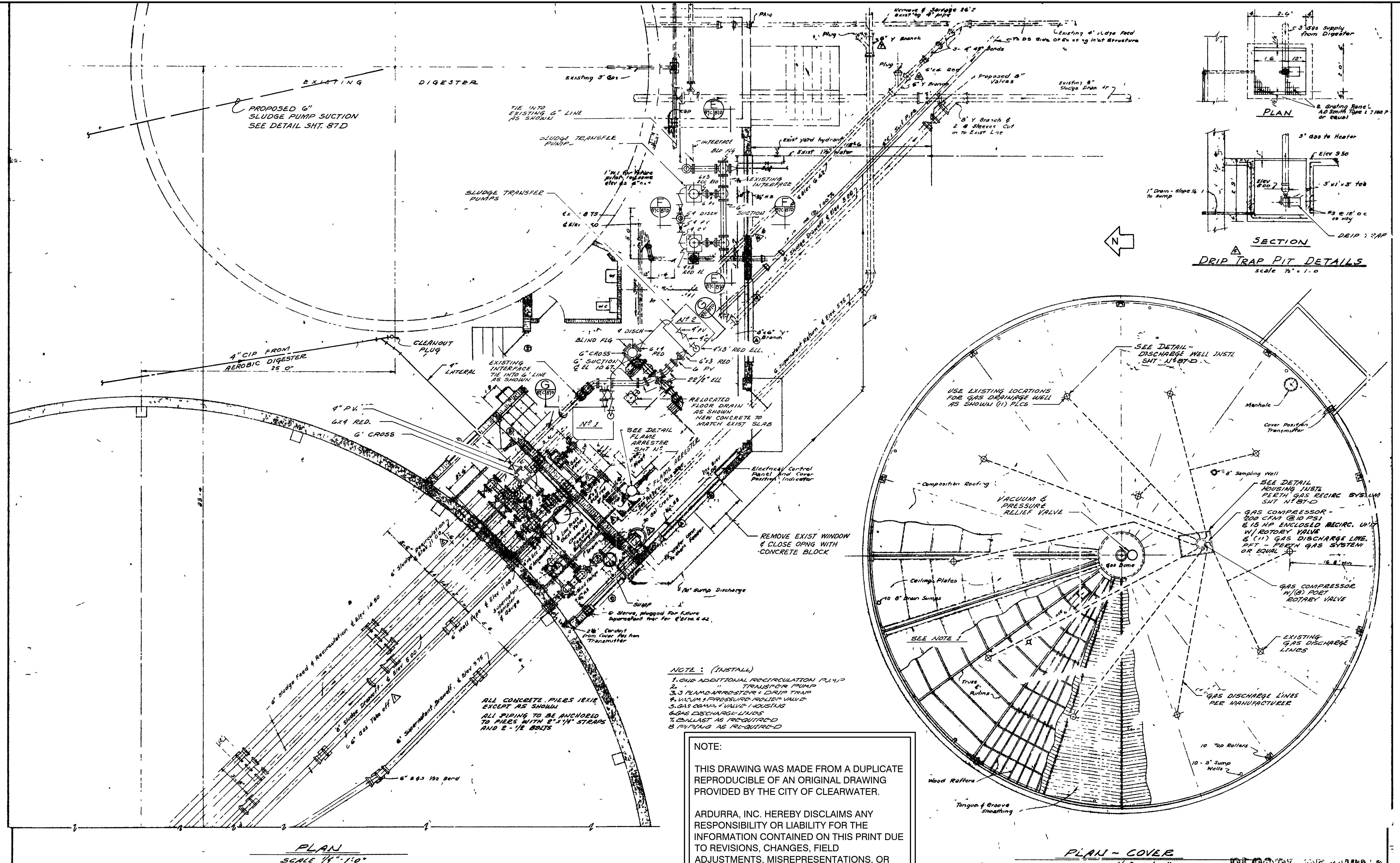
CITY OF CLEARWATER, FLORIDA
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CLEARWATER, FL 33756



MARSHALL STREET WRF DIGESTER DEMOLITION
ELECTRICAL DEMOLITION PLAN & POWER ONE-LINE DIAGRAM

DWG NAME: 5685-001-MS-E1.00	FIELD BOOK: F	SURVEYED BY: VERT: _____
CONTRACT NO.: 09-0023-UT	DATE DRAWN: 04/26/2017	DRAWN BY: RFB
JOB NO.: 2014032	DESIGNED BY: RFB	CHECKED BY: PSC
		SHEET NO.: 11 OF 19
APPROVED FOR CONSTRUCTION		ENGINEER DATE

REF-01A



RECORD DRAWINGS				SUBMITTED BRILEY, WILD & ASSOCIATES			
REV NO	DATE	REVISION	BY	DRAWN	APPROVED	PRINCIPAL	PROJECT ENGINEER
10/80	RECORD DRAWING	G-15	C-4	6-18			
2 1/74	GENERAL	C-4	C-4				
	REVIEWED BY:						
	APPROVED BY:						
	PROJECT ENGINEER						
	ENGINEER						

RECORD DRAWINGS
SURVEYED BY: DRAWN BY:
REVIEWED BY:
APPROVED BY:
PROJECT ENGINEER DATE
ENGINEER DATE

REVISION BY DATE

Briley, Wild & Associates
CONSULTING ENGINEERS
ORMOND BEACH, FLA. CLEARWATER, FLA.

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756



MARSHALL STREET POLLUTION CONTROL FACILITY EXPANSION
DIGESTER-MODIFICATION
CLEARWATER, FLORIDA

MARSHALL STREET WRF DIGESTER DEMOLITION

REFERENCE DRAWING (1)

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
REF-01			
09-0024-UT	DEC 2013	MJG	
2014032	DESIGNED BY: MJG	CHECKED BY: TAT	12 OF 19

APPROVED FOR CONSTRUCTION

RECORD DRAWING

IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING HAS BEEN REDUCED SCALE ACCORDINGLY

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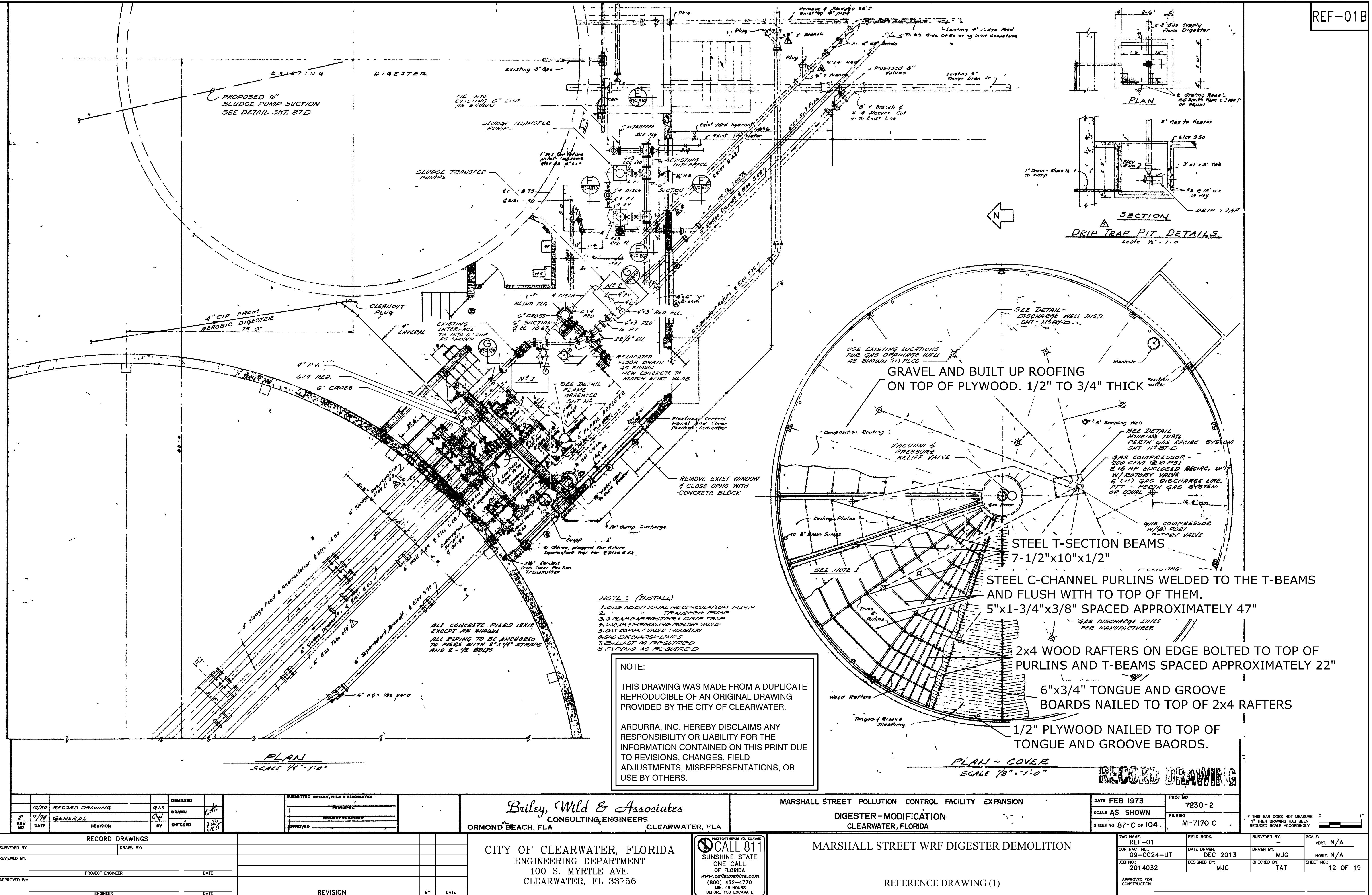
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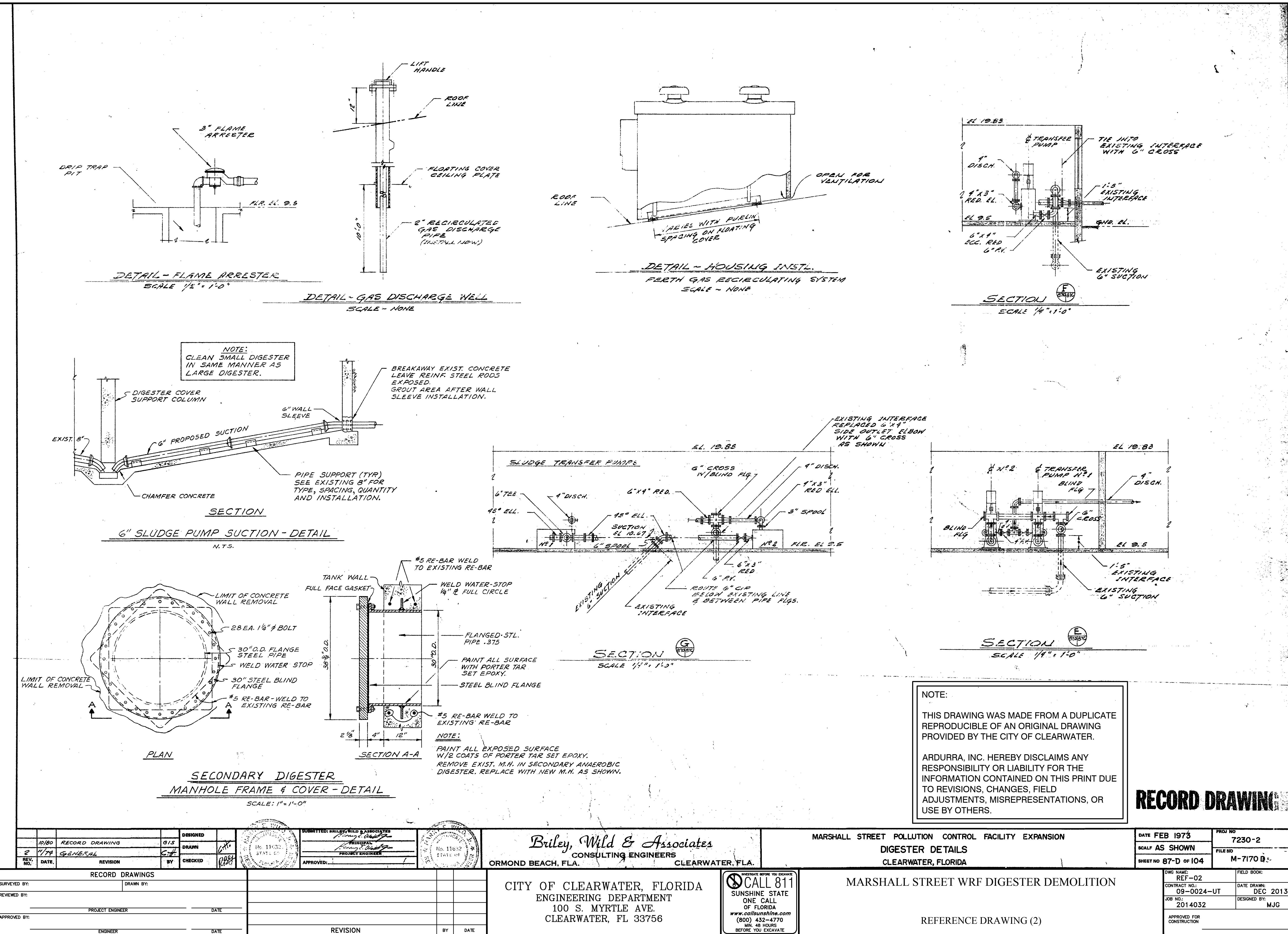
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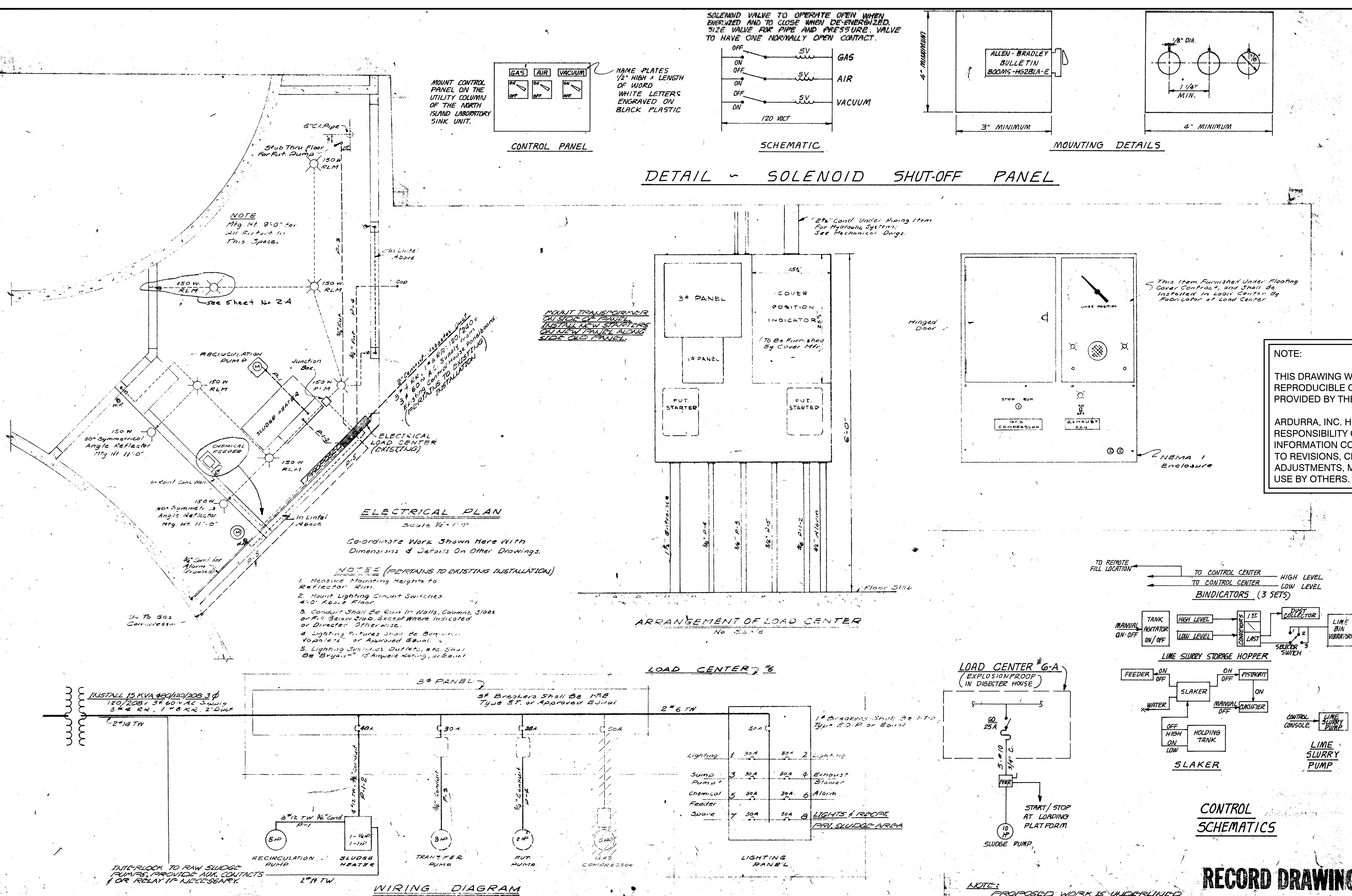
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REF-01B

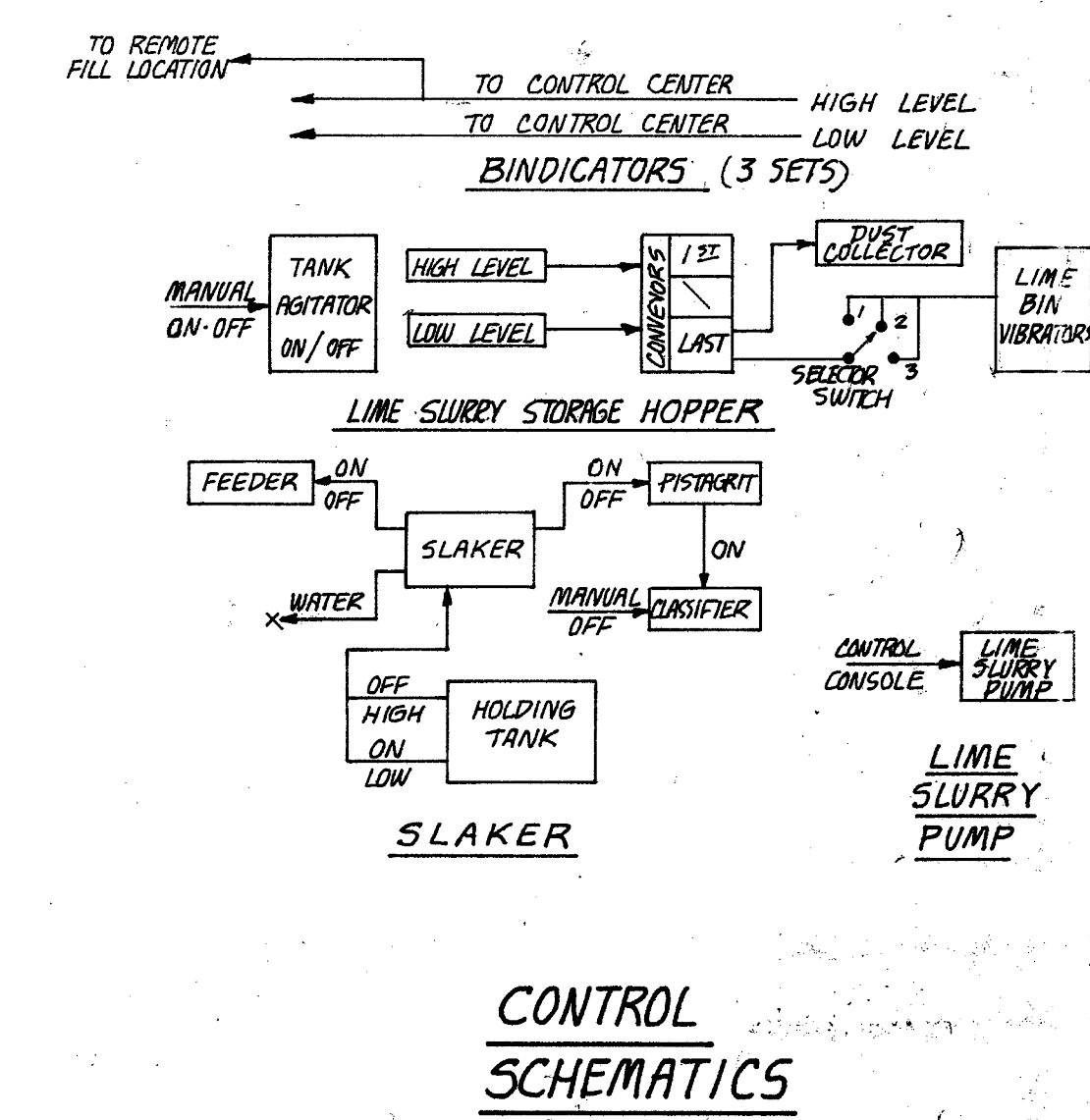






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			DRAWN			PRINCIPAL														
10/80	RECORD DRAWING	RRW	BY	CHECKED	DBS	PROJECT ENGINEER														
REV. NO.	DATE.	REVISION	BY			APPROVED:														
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SURVEYED BY:	DRAWN BY:																			
REVIEWED BY:																				
PROJECT ENGINEER		DATE																		
APPROVED BY:																				

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CONSULTING ENGINEERS
ORMOND BEACH, FLA. / CLEARW

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CLEARWATER FL 33756



MARSHALL STREET POLLUTION CONTROL FACILITY EXPANSION
LOAD CENTER SCHEMATIC
CLEARWATER, FLORIDA

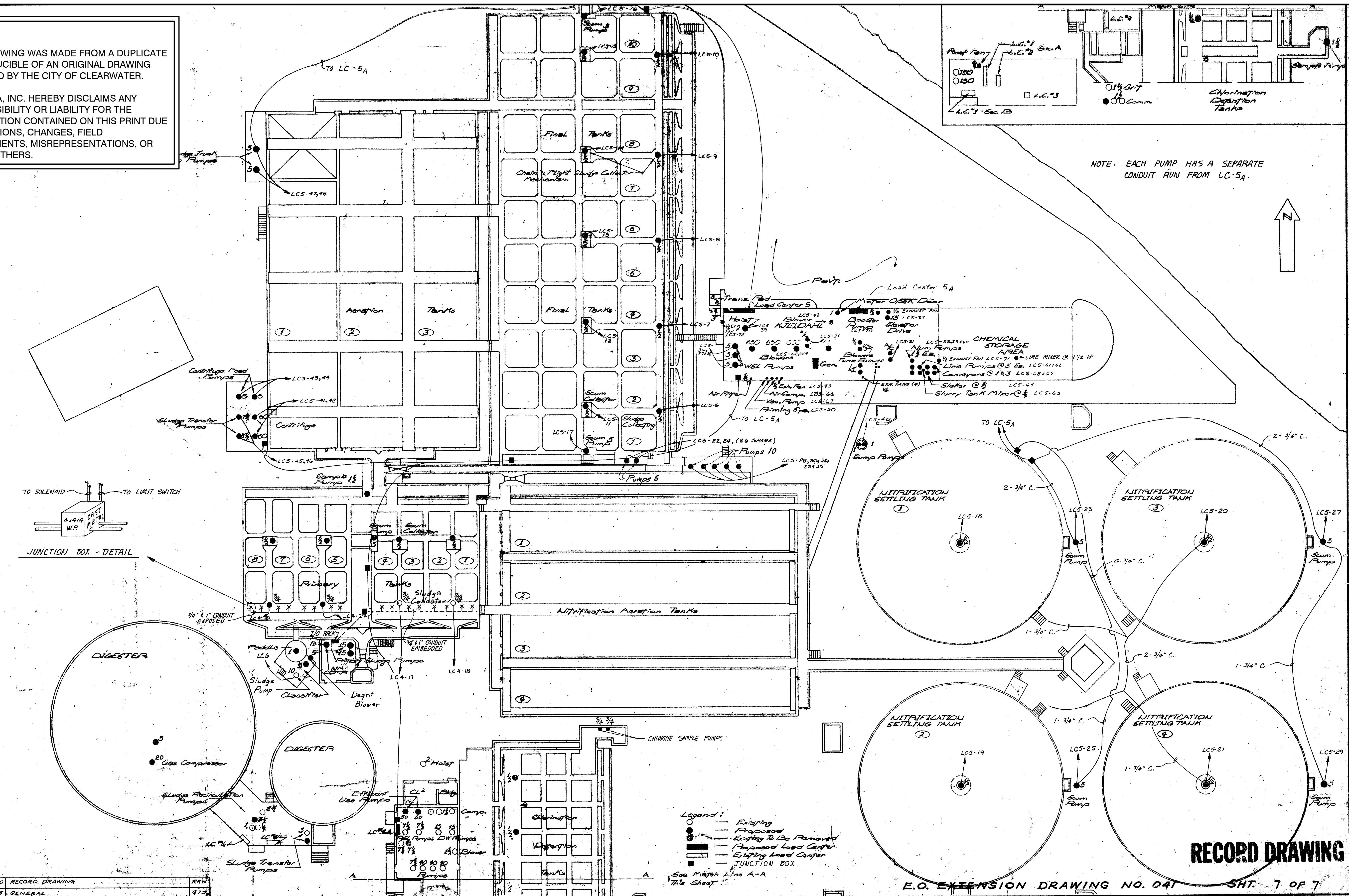
MARSHALL STREET WRF DIGESTER DEMOLITION

REFERENCE DRAWING (3)

DATE: FEB. 1973	PROJ NO. 7230-2	IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING HAS BEEN REDUCED SCALE ACCORDINGLY	
SCALE: NONE	FILE NO. E-7182 B	0	1"
SHEET NO. 99-B OF 104			
DWG NAME: REF-03	FIELD BOOK:	SURVEYED BY: —	SCALE: <u>VERT. N/A</u>
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	HORIZ. <u>N/A</u>
JOB NO.: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	SHEET NO.: 14 OF 19
APPROVED FOR CONSTRUCTION			

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**RECORD DRAWING**

E.O. EXTENSION DRAWING NO. 041 SHT. 7 OF 7

10/80 RECORD DRAWING	R/RW
3 9/15 GENERAL	9/15
2 7/15 REVISED DEC 2001, 2006	2/15
1 10/19 GEN.	1/15
7 5/14 GENERAL	5/14
REVISION	REVISION
SURVEYED BY:	DRAWN BY:
REVIEWED BY:	APPROVED:
PROJECT ENGINEER	DATE
APPROVED BY:	DATE
ENGINEER	DATE

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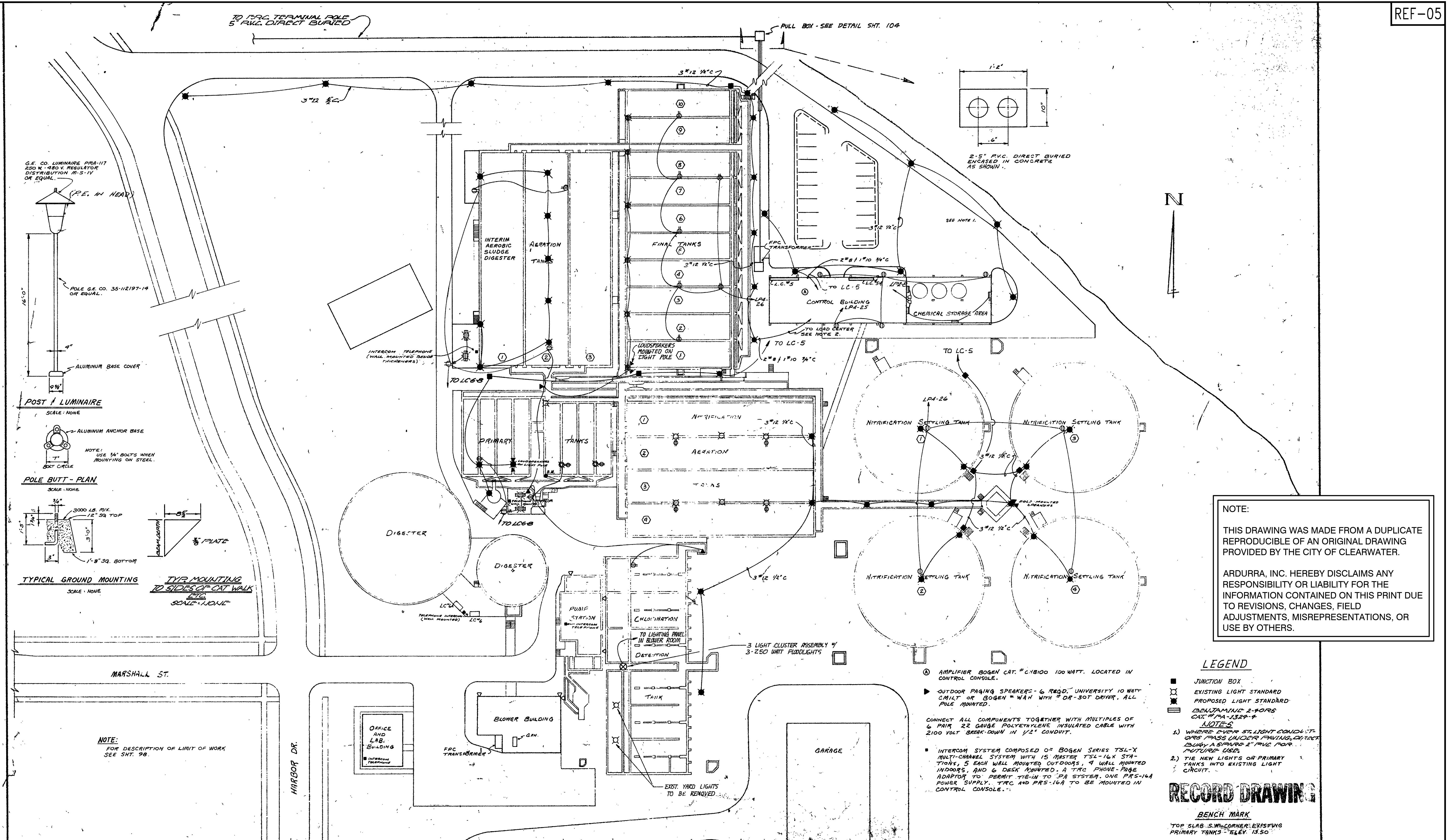


MARSHALL STREET WRF DIGESTER DEMOLITION

REFERENCE DRAWING (4)

MARSHALL STREET POLLUTION CONTROL FACILITY EXPANSION
MOTOR LOCATION PLAN
CLEARWATER, FLORIDA

DWG NAME: REF-04	FIELD BOOK:	SURVEYED BY: —	SCALE: VERT. N/A
DATE DRAWN: FEB. 1973	PROJ. NO.: 7230 - 2		
SCALE: 1" = 20'	FILE NO.: E-7186	IF THIS BAR DOES NOT MEASURE 1", THEN DRAWING HAS BEEN REDUCED SCALE ACCORDINGLY	0 1"
JOB NO.: 09-0024-UT	DESIGNED BY: MJG	DRAWN BY: MJG	HORIZ. N/A
JOB NO.: 2014032	CHECKED BY: TAT	APPROVED FOR CONSTRUCTION	SHEET NO.: 15 OF 19



REV.	RECORD DRAWING 275 REVISED 03/20/2011	REV.	RECORD DRAWING 275 REVISED 03/20/2011
1	GENERAL	1	GENERAL
REVIEWED BY:		DRAWN BY:	
APPROVED BY:		RECHECKED BY:	
PROJECT ENGINEER	DATE	REVISION	BY DATE
ENGINEER	DATE		

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CLEARWATER, FL 33756

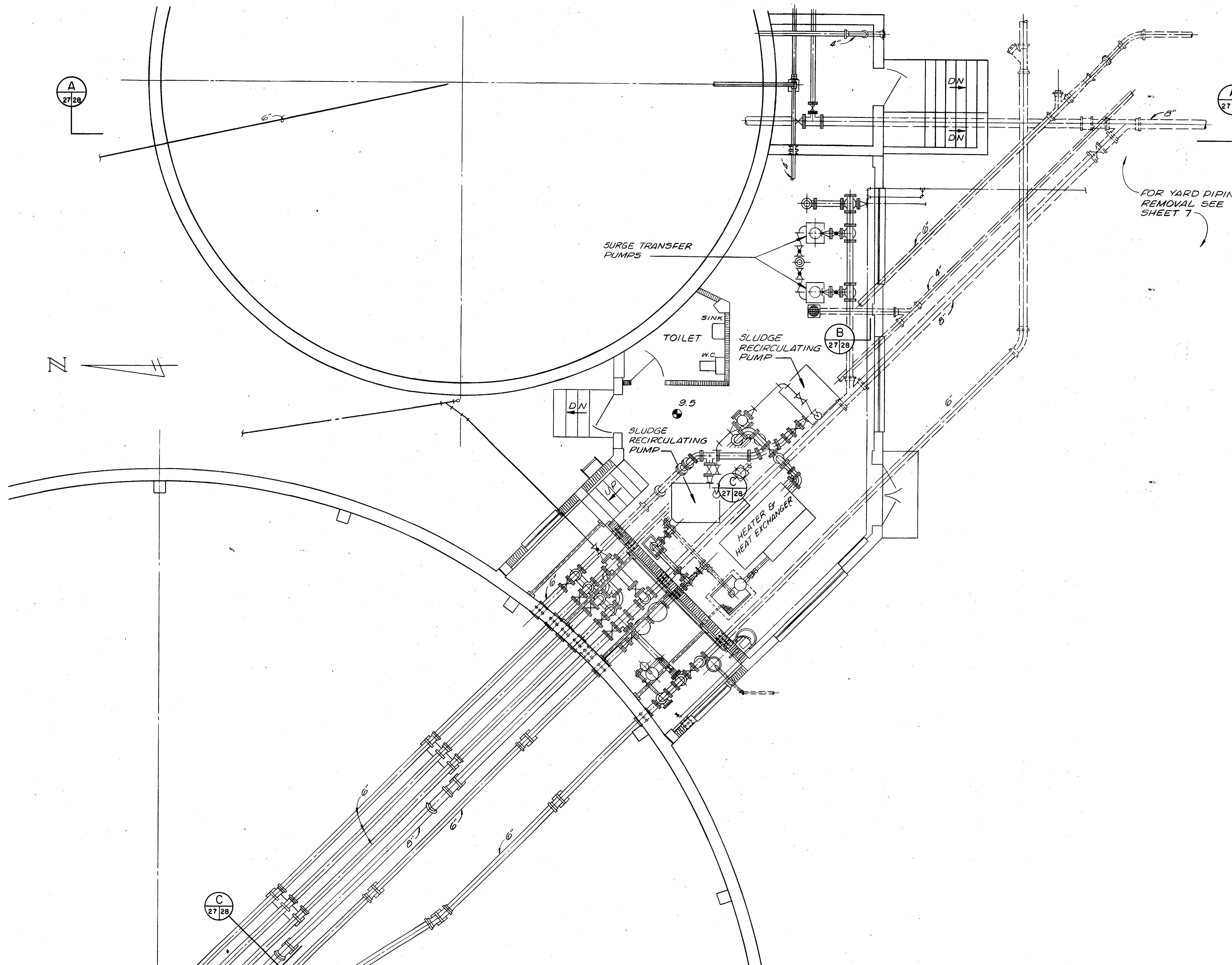


MARSHALL STREET POLLUTION CONTROL FACILITY EXPANSION
YARD LIGHTING PLAN

CLEARWATER, FLORIDA

REFERENCE DRAWING (5)

DWG NAME: REF-05	FIELD BOOK:	SURVEYED BY:	SCALE:
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	
JOB NO.: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	
APPROVED FOR CONSTRUCTION			



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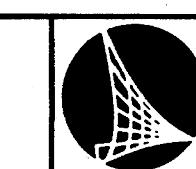
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1. STRUCTURES SHOWN ARE TO BE DEMOLISHED. THIS DRAWING HAS BEEN INCLUDED FOR REFERENCE ONLY. NO NEW CONSTRUCTION IS PROPOSED ON THIS DRAWING.
 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS AND COMPARE WITH THESE PLANS TO INSURE ADEQUATE PERFORMANCE AND COST ESTIMATION TO COMPLETE THE JOB AS SPECIFIED.
 3. SMALLER DIGESTERS MAY BE DEMOLISHED DURING PHASE I HOWEVER LARGE DIGESTERS MUST REMAIN IN SERVICE.
 4. GAS BURNER MUST REMAIN IN SERVICE UNTIL LARGER DIGESTER IS DEMOLISHED.
 5. FOR YARD PIPING REMOVALS SEE SHEET 7
 6. THE OWNER SHALL BE ALLOWED TO SALVAGE VARIOUS SMALL ITEMS PRIOR TO DEMOLITION OF THE STRUCTURES.

RECORD DRAWING

TUS	ACTION DATE
D	4-22-92
P	PRELIMINARY
E	FOR ESTIMATING ONLY
B	FOR BIDDING ONLY
O	RELEASED FOR CONSTRUCTION
R	REVISED DESTROY PREVIOUS PRINTS
H	PORTION(S) BEING HELD
A	APPROVAL
C	CHECK PRINT
D	RECORD DRAWING

				DESIGNED	RAE	SUBMITTED: BRILEY, WILD & ASSOCIATES	
				DRAWN	WLS	APPROVED:	
A 306156	4-92	RECORD DRAWING	RAP				
	REV. NO.	DATE	REVISION	BY	CHECKED	SRS	COPYRIGHT © 19 ALL RIGHTS RESERVED Briley, Wild and Associates, Inc.
RECORD DRAWINGS							
VEYED BY:		DRAWN BY:					
EWED BY:							
ROVED BY:							
PROJECT ENGINEER		DATE					
ENGINEER		DATE					
				REVISION			
					BY	DA	



Briley, Wild & Associates, Inc.

CONSULTING ENGINEERS AND PLANNERS

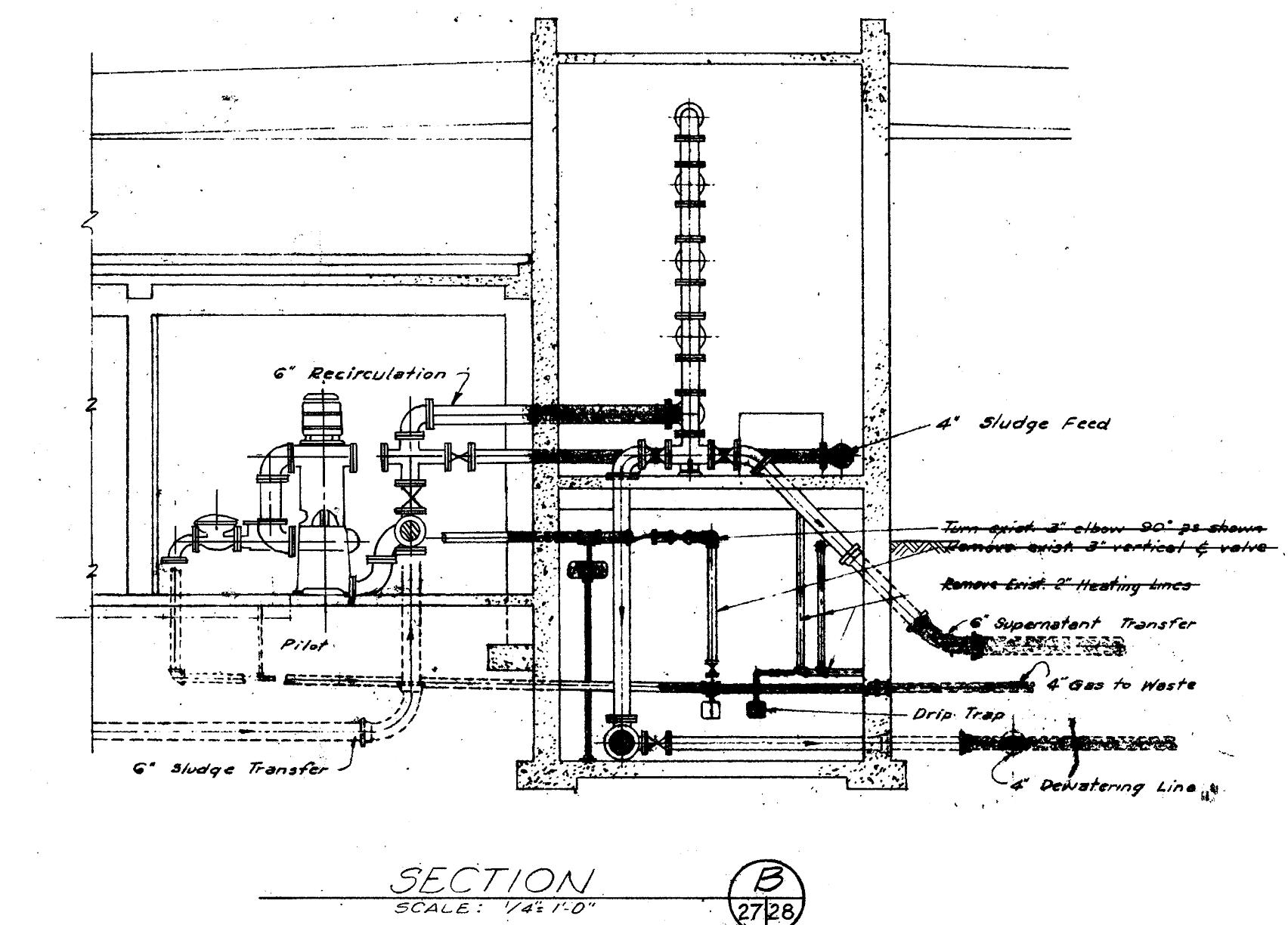
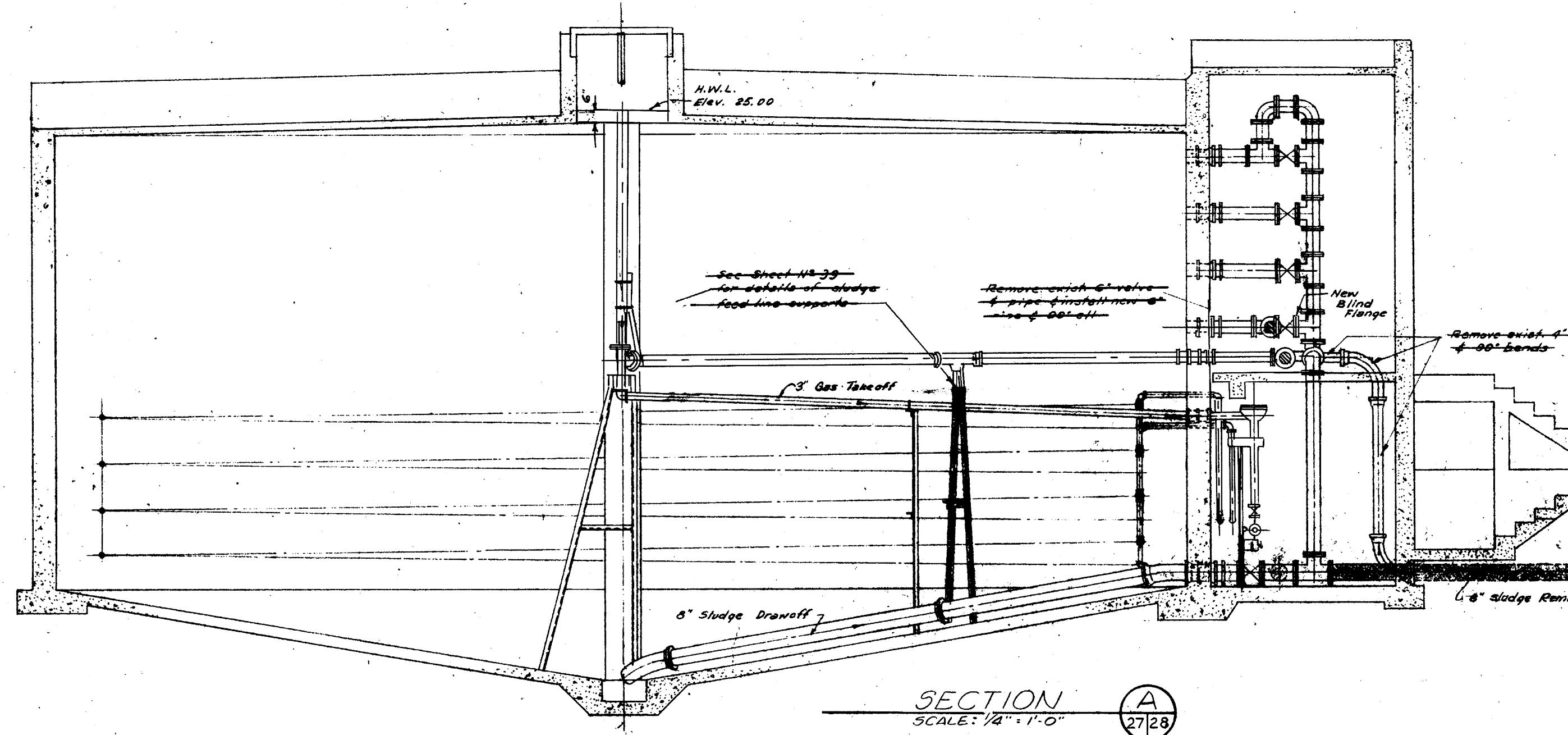
CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER FL 33756



MARSHALL STREET ADVANCED POLLUTION CONTROL FACILITY
DIGESTERS - PLAN (DEMOLITION)
CLEARWATER, FLORIDA

REFERENCE DRAWING (6)

FIELD BOOK:	SURVEYED BY: —	SCALE: VERT. N/A
DATE DRAWN: DEC 2013	DRAWN BY: MJG	HORIZ. N/A
DESIGNED BY: MJG	CHECKED BY: TAT	SHEET NO.: 17 OF 19



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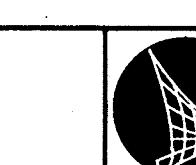
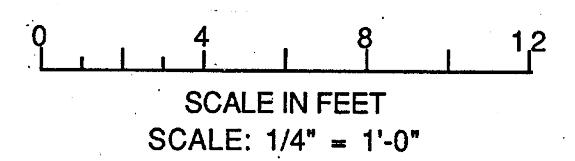
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GENERAL NOTES

- 1.) STRUCTURES SHOWN ARE TO BE DEMOLISHED. THIS DRAWING HAS BEEN INCLUDED FOR REFERENCE ONLY. NO NEW CONSTRUCTION IS PROPOSED ON THIS DRAWING.
 - 2.) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS AND COMPARE WITH THESE PLANS TO INSURE ADEQUATE PERFORMANCE AND COST ESTIMATION TO COMPLETE THE JOB AS SPECIFIED.
 - 3.) THE OWNER SHALL BE ALLOWED TO SALVAGE VARIOUS SMALL ITEMS PRIOR TO DEMOLITION OF THE STRUCTURE.

RECORD DRAWING

TUS	ACTION DATE
D	4-22-92
P	PRELIMINARY
E	FOR ESTIMATING ONLY
B	FOR BIDDING ONLY
D	RELEASED FOR CONSTRUCTION
R	REVISED DESTROY PREVIOUS PRINTS
H	PORTION(S) BEING HELD
A	APPROVAL
C	CHECK PRINT
D	RECORD DRAWING



Briley, Wild & Associates, Inc.
CONSULTING ENGINEERS AND PLANNERS
Orrmond Beach - Clearwater - Bradenton - Florida

MARSHALL STREET ADVANCED POLLUTION CONTROL FACILITY
DIGESTERS - SECTIONS (DEMOLITION)
CLEARWATER, FLORIDA

RECORD DRAWINGS		
SURVEYED BY:	DRAWN BY:	
REVIEWED BY:		
PROJECT ENGINEER		DATE
APPROVED BY:		
ENGINEER		DATE
		REVISION
		BY

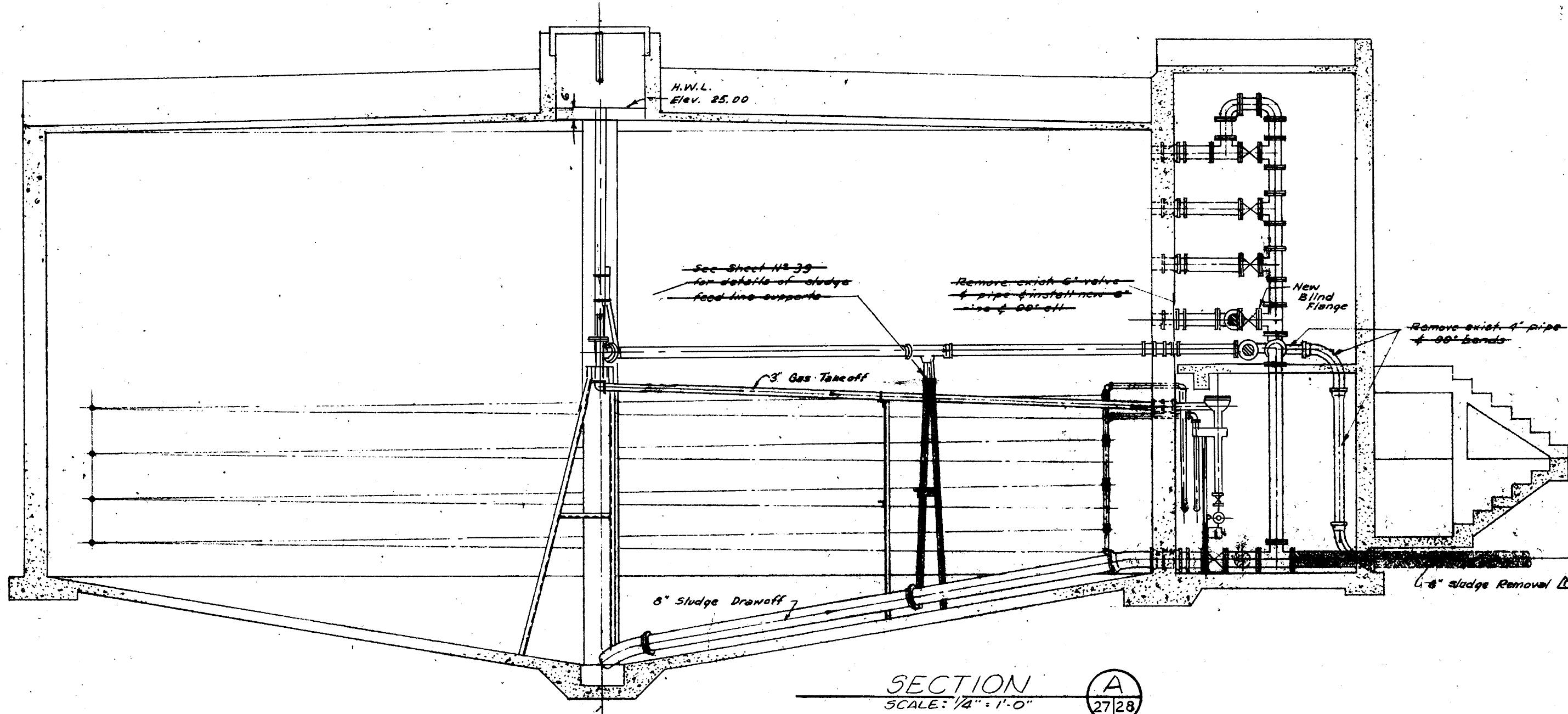
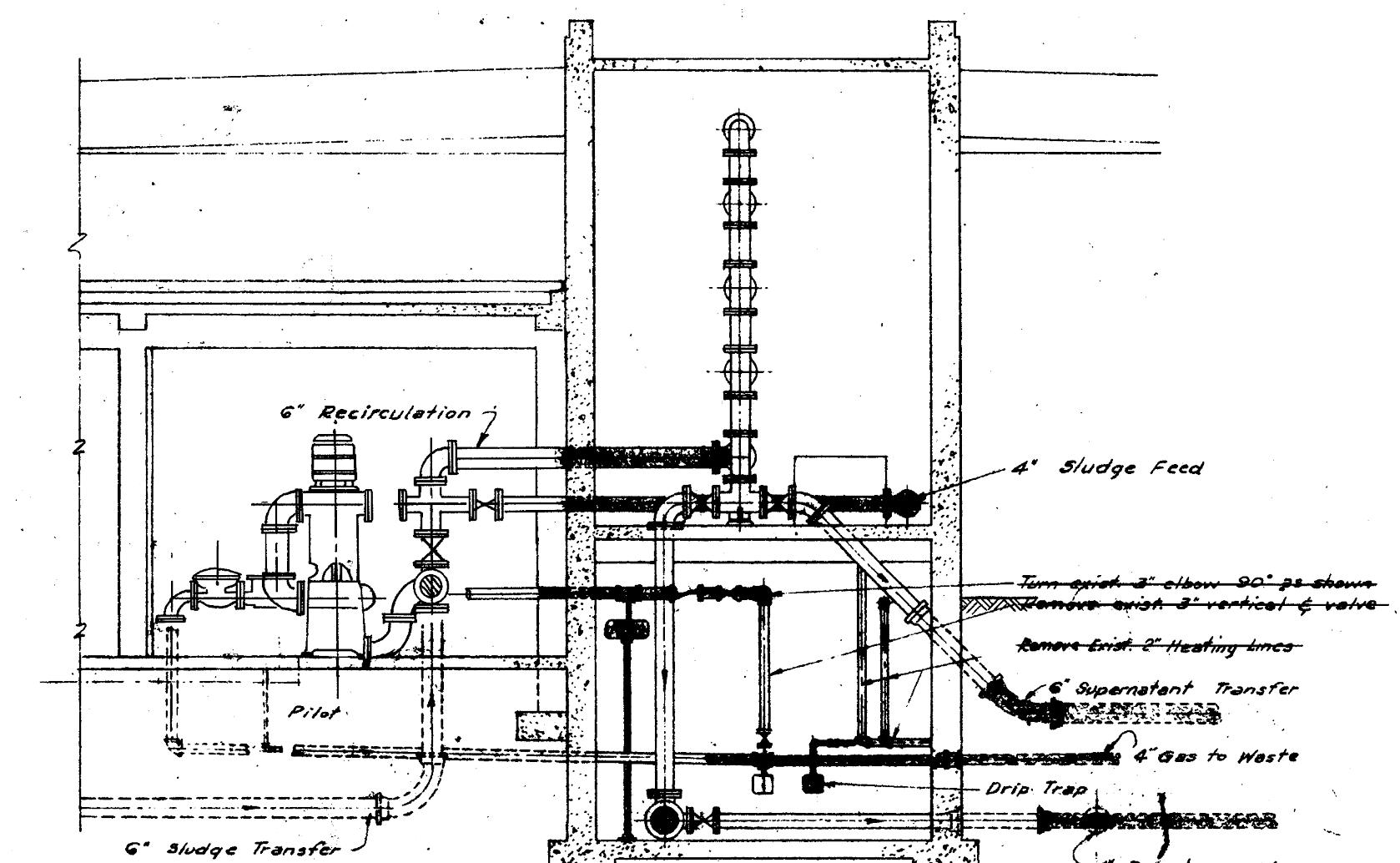
CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER FL 33756



MARSHALL STREET WRF DIGESTER DEMOLITION

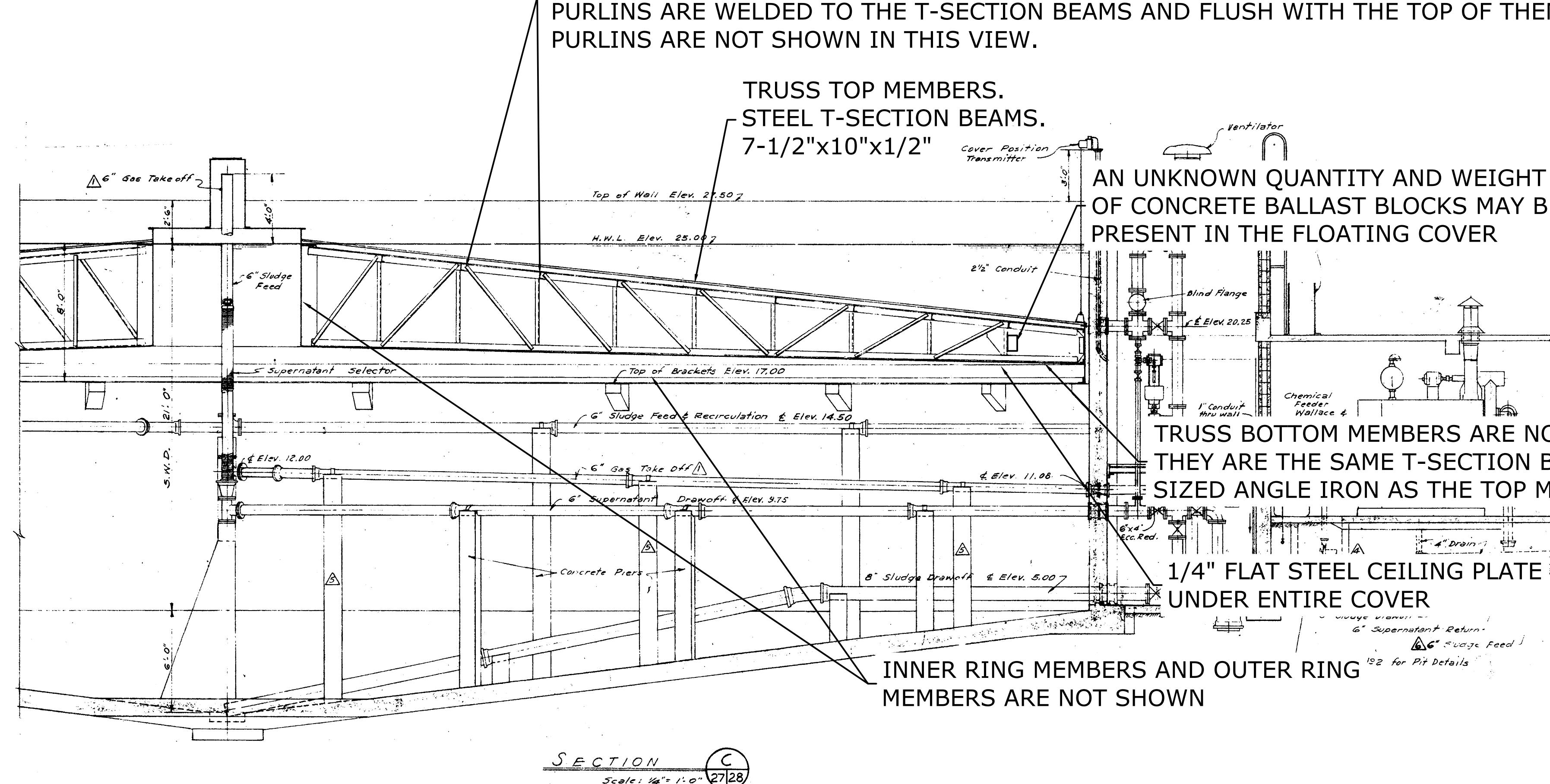
REFERENCE DRAWING (7)

DWG NAME: REF-07	FIELD BOOK:	SURVEYED BY: —	SCALE: VERT. <u>N/A</u>
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	HORIZ. <u>N/A</u>
JOB NO.: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	SHEET NO.: 18 OF 19
APPROVED FOR CONSTRUCTION			

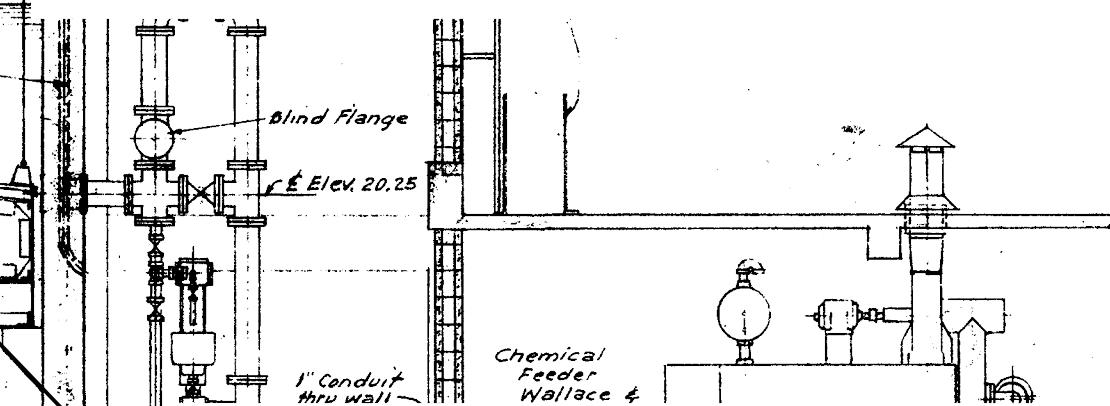
SECTION
SCALE: 1/4" = 1'-0"
27-28SECTION
SCALE: 1/4" = 1'-0"
27-28

STEEL 2"x3"x1/4" ANGLE BRACING SPACED WITH THE PURLINS.
ANGLE BRACES ARE WELDED TO THE TOP AND BOTTOM TRUSS MEMBERS.
PURLINS ARE WELDED TO THE T-SECTION BEAMS AND FLUSH WITH THE TOP OF THEM.
PURLINS ARE NOT SHOWN IN THIS VIEW.

TRUSS TOP MEMBERS.
STEEL T-SECTION BEAMS.
7-1/2"x10"x1/2"

SECTION
SCALE: 1/4" = 1'-0"
27-28

AN UNKNOWN QUANTITY AND WEIGHT
OF CONCRETE BALLAST BLOCKS MAY BE
PRESENT IN THE FLOATING COVER



INNER RING MEMBERS AND OUTER RING
MEMBERS ARE NOT SHOWN

NOTE:

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GENERAL NOTES

1) STRUCTURES SHOWN ARE TO BE DEMOLISHED. THIS
DRAWING HAS BEEN INCLUDED FOR REFERENCE ONLY.
DEMOLITION IS PROPOSED ON THIS DRAWING.
POSSIBILITY OF THE CONTRACTOR TO
ADJUST TO SITE CONDITIONS AND COMPARE
PLANS TO INSURE ADEQUATE PERFORMANCE
ESTIMATION TO COMPLETE THE JOB
AS SPECIFIED.

3.) THE OWNER SHALL BE ALLOWED TO SALVAGE VARIOUS
SMALL ITEMS PRIOR TO DEMOLITION OF THE STRUCTURE.

△ 4) LARGE DIGESTER SHALL REMAIN IN SERVICE.

RECORD DRAWING

RD	4-22-92
P	PRELIMINARY
E	FOR ESTIMATING ONLY
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O	RELEASED FOR CONSTRUCTION
R	DESTROY PREVIOUS PRINTS
H	PORTION(S) BEING HELD
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C	CHECK PRINT

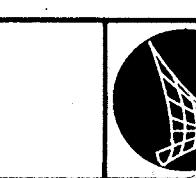
0 4 8 12
SCALE IN FEET
SCALE: 1/4" = 1'-0"

RD RECORD DRAWING

DATE: AUG. 1988
PROJ. NO.: 87056-2
SCALE: 1/4" = 1'-0"
FILE NO.: 12794

IF THIS BAR DOES NOT MEASURE
1", THEN DRAWN HAS BEEN
REDUCED SCALE ACCORDINGLY

REV. NO.	DATE	REVISION	DESIGNED	R.A.E.	ENGINEER OF RECORD:	DRAWN BY:	R.R.W.
A-92	RECORD DRAWING	RAP	DRAWN	R.R.W.			SRS



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MARSHALL STREET ADVANCED POLLUTION CONTROL FACILITY
DIGESTERS - SECTIONS (DEMOLITION)
CLEARWATER, FLORIDA

0 1 2 3 4 5 6 7 8 9 10 11 12

RECORD DRAWINGS		DRAWN BY:		SURVEYED BY:		FIELD BOOK:		SURVEYED BY:		SCALE:	
SURVEYED BY:										VERT. N/A	
REVIEWED BY:										HORIZ. N/A	
PROJECT ENGINEER	DATE										
APPROVED BY:											
ENGINEER	DATE										

REVISION BY DATE

CITY OF CLEARWATER, FLORIDA
ENGINEERING DEPARTMENT
100 S. MYRTLE AVE.
CLEARWATER, FL 33756

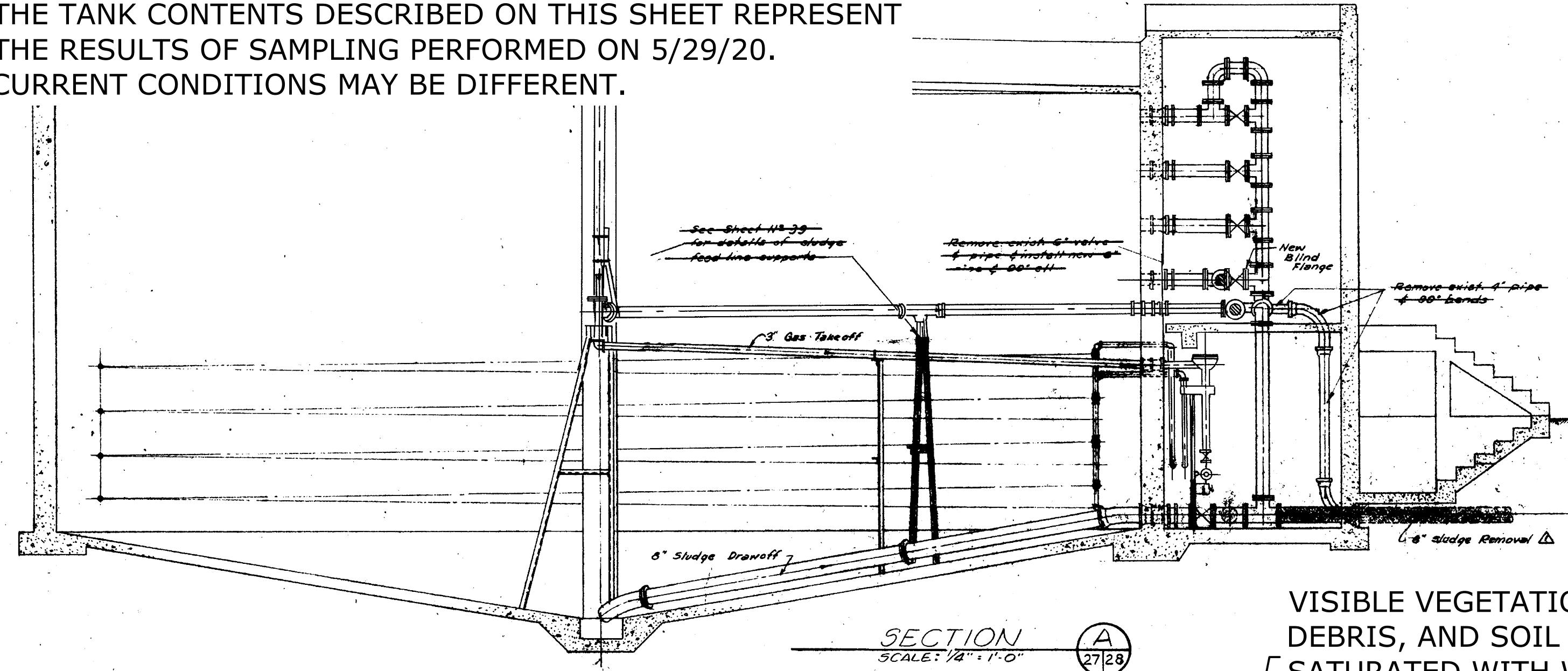


MARSHALL STREET WRF DIGESTER DEMOLITION
REFERENCE DRAWING (7)

DWG NAME: REF-07	FIELD BOOK:	SURVEYED BY: —	SCALE:
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	
JOB NO.: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	
APPROVED FOR CONSTRUCTION			

NOTE

**THE TANK CONTENTS DESCRIBED ON THIS SHEET REPRESENT
THE RESULTS OF SAMPLING PERFORMED ON 5/29/20.
CURRENT CONDITIONS MAY BE DIFFERENT.**



✓ SIDEWALL BELOW CORBELLS = 13-FEE

THE DEPTHS AND LAYERS SHOWN OF THE CONTENTS OF THE TA
ARE BEST ESTIMATES AND ARE NOT DRAWN TO SCALE.

0 TO 1-1/2 FOOT BELOW THE CEILING PLATE; LAYER OF BLACK CAKE LIKE SLUDGE WITH PLANT DEBRIS, (SAMPLE A, 10.9% TS, 44 DRY TONS)

1-1/2 TO 4-1/2 FEET BELOW THE CEILING PLATE. LIQUID, SAMPLE B. 3,900 mg/l TSS, 177,000 GALS.

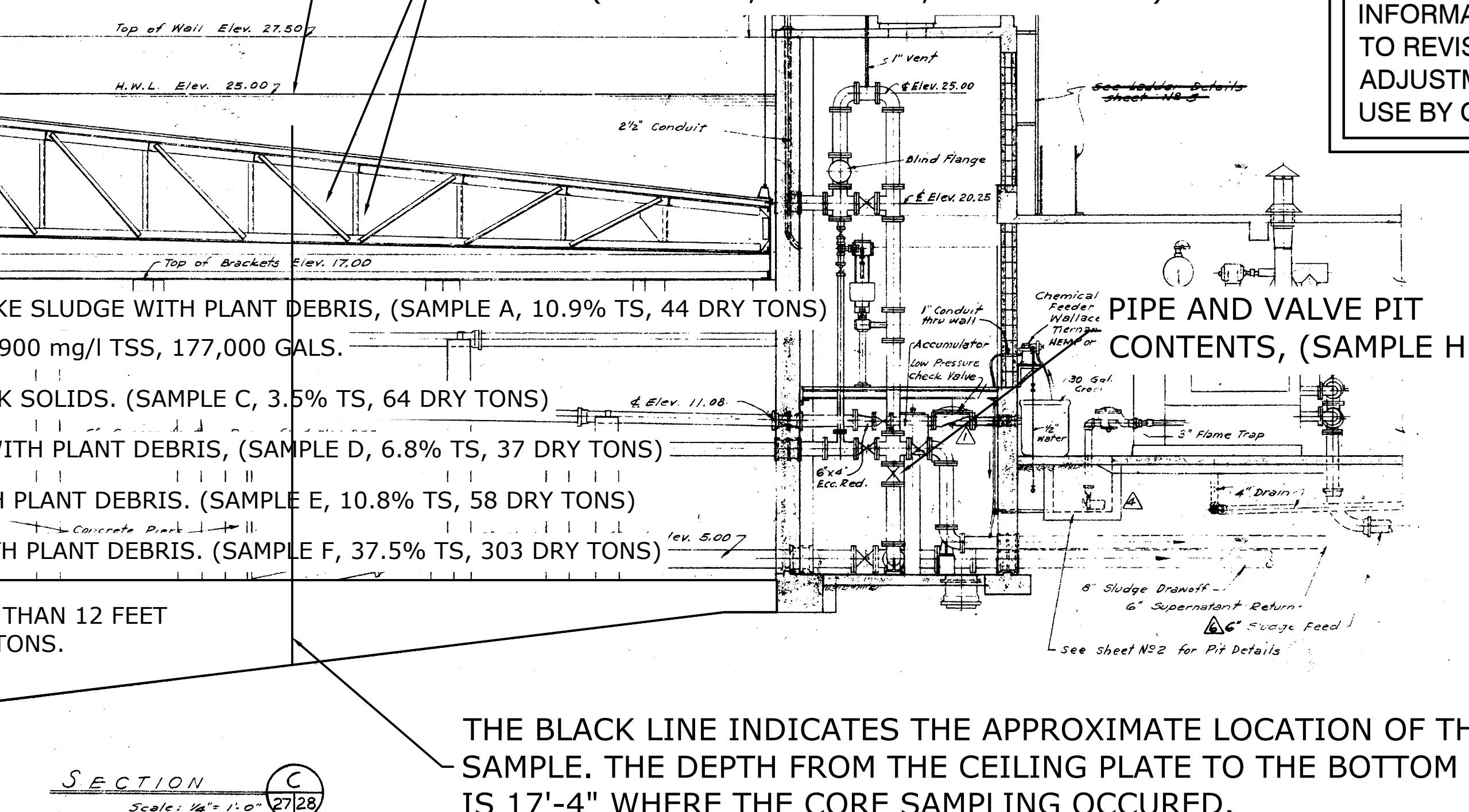
4-1/2 TO 6 FEET BELOW THE CEILING PLATE. CLOUDY, LIQUID TO THICK SOLIDS. (SAMPLE C, 3.5% TS, 64 DRY TONS)

6 TO 8 FEET BELOW THE CEILING PLATE. VERY THICK BLACK SLUDGE WITH PLANT DEBRIS, (SAMPLE D, 6.8% TS, 37 DRY TONS)

8 TO 10 FEET BELOW CEILING PLATE. VERY THICK BLACK SLUDGE WITH PLANT DEBRIS. (SAMPLE E, 10.8% TS, 58 DRY TONS)

10 TO 12 FEET BELOW CEILING PLATE. VERY THICK BLACK SLUDGE WITH PLANT DEBRIS. (SAMPLE F, 37.5% TS, 303 DRY TONS)

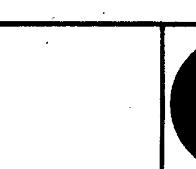
NOT ABLE TO OBTAIN A SAMPLE OF THE TANK CONTENTS MORE THAN 12 FEET BELOW THE CEILING PLATE. ESTIMATED QUANTITY IS 202 DRY TONS.



SECTION

THE BLACK LINE INDICATES THE APPROXIMATE LOCATION OF THE CORE SAMPLE. THE DEPTH FROM THE CEILING PLATE TO THE BOTTOM OF THE TANK IS 17'-4" WHERE THE CORE SAMPLING OCCURED.

				DESIGNED	R.A.E	ENGINEER OF RECORD:
	4-92	RECORD DRAWING	RAP	DRAWN	R.R.W.	
REV						



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CONSULTING ENGINEERS AND PLANNERS
San Francisco • Seattle • Denver • Atlanta

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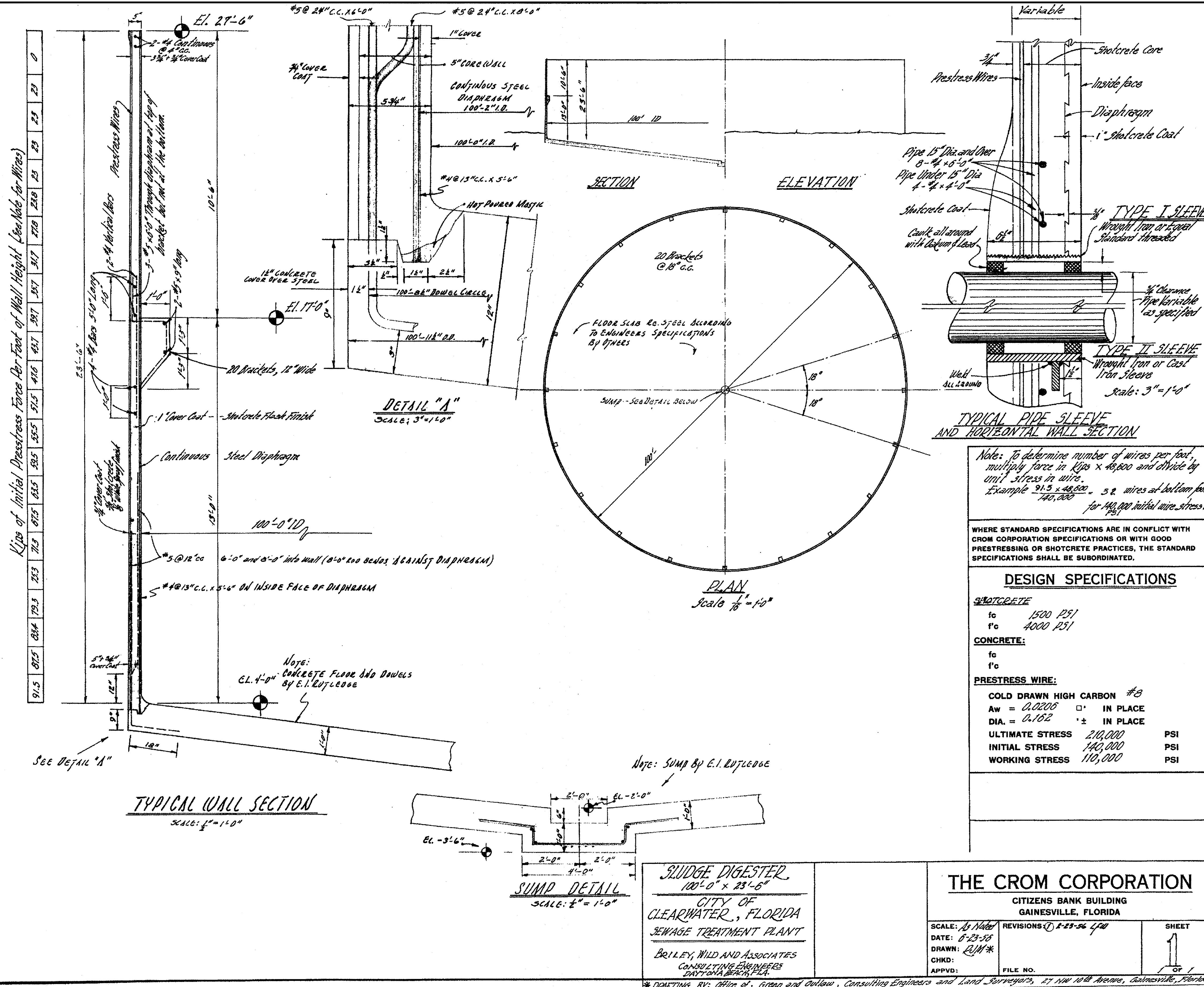


MARSHALL STREET ADVANCED POLLUTION CONTROL FACILITY
DIGESTERS - SECTIONS (DEMOLITION)
CLEARWATER, FLORIDA

REFERENCE DRAWING (7)

STATUS	ACTION DATE
RD	4-22-92
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O	RELEASED FOR CONSTRUCTION
R	REVISED DESTROY PREVIOUS PRINTS
H	PORTION(S) BEING HELD
A	APPROVAL
C	CHECK PRINT
RD	RECORD DRAWING
PROJ. NO.	87056-2
FILE NO.	THIS BAR DOES NOT MEASURE 1" 1" THEN DRAWING HAS BEEN

OK:	SURVEYED BY: —	SCALE: <u>VERT. N/A</u>
DRAWN BY: EC 2013	DRAWN BY: MJG	HORIZ. <u>N/A</u>
BY: MJG	CHECKED BY: TAT	SHEET NO.: <u>18 OF 19</u>



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MARSHALL STREET WRF DIGESTER DEMOLITION

REFERENCE DRAWING (8)

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RECORD DRAWINGS	
SURVEYED BY:	DRAWN BY:
REVIEWED BY:	
APPROVED BY: PROJECT ENGINEER	DATE
ENGINEER	DATE

REVISION BY DATE

IF THIS BAR DOES NOT MEASURE
1", THEN DRAWING HAS BEEN
REDUCED SCALE ACCORDINGLY

DWG NAME:	FIELD BOOK:	SURVEYED BY:	SCALE:
REF-08		-	VERT. N/A
CONTRACT NO.: 09-0024-UT	DATE DRAWN: DEC 2013	DRAWN BY: MJG	HORIZ. N/A
JOB NO: 2014032	DESIGNED BY: MJG	CHECKED BY: TAT	SHEET NO: 19 OF 19

APPROVED FOR CONSTRUCTION