HOWARD COUNTY

DEPARTMENT OF PUBLIC WORKS ELLICOTT CITY, MARYLAND 21043

PERMIT INFORMATION CHART

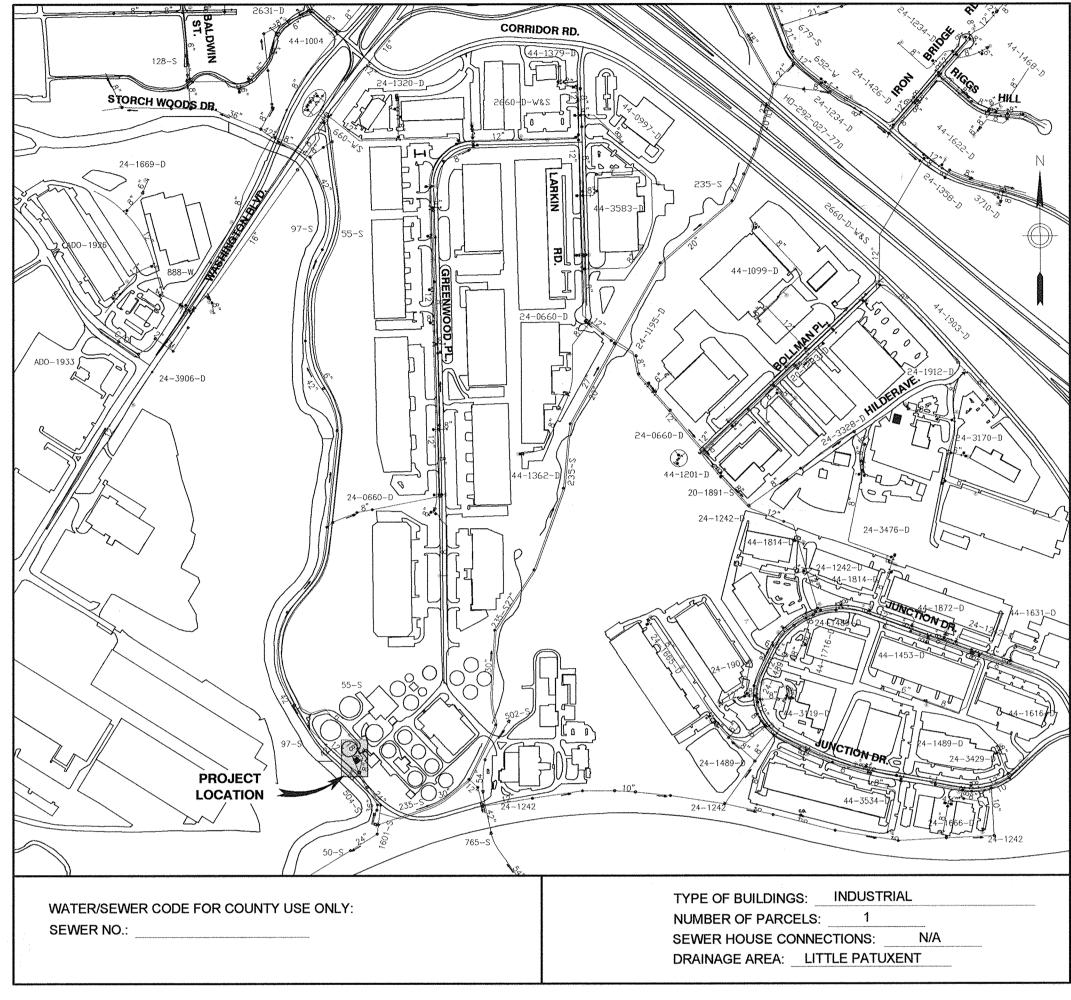
Subdivision Name	N/A	Section Area	N/A	Lot/Parcel No. 200
Plat # or L/F	31/17	Tax Map No.	47	Census Tract 6069.02
Water Code	C04	Sewer Code	4020000	

ADDRESS CHART

Lot/Parcel No.	Street Address
200	8900 Greenwood Place, Savage, MD

SITE ANALYSIS DATA CHART

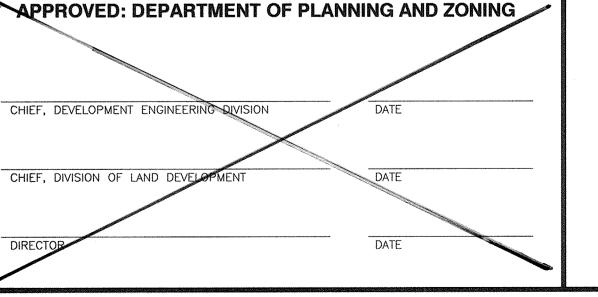
Total Project Area:	79,475 sf (18.245 acres) (plant)
Area of Plan Submission	10,000 sf
Limit of Disturbed Area	1,750 sf
Present Zoning Designation	M-2
Proposed use	Scum and Septage Receiving Facility
Floor Space	N/A
Total Number of Units Allowed	N/A
Total Number of Units Proposed	N/A
Maximum Number of Employees	N/A
Numbe rof Parking Spaces Required	N/A
Number of Parking Spaces Provided	N/A
Open Area on Site	N/A
Area of Recreation	N/A
Building Coverage	N/A
DPZ File References	SDP-00-094 & SDP-78-55
Soil Type	Cs Comus silt loam



VICINITY MAP SCALE: 1" = 600'

LITTLE PATUXENT WATER RECLAMATION PLANT SCUM AND SEPTAGE FACILITY (PHASE IB)

CAPITAL PROJECT S-6245 CONTRACT NO. 20-4700



HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 10966 EXPIRATION DATE: MAY 31, 2012 Thomas N. Dallet Ed.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

BALTIMORE, MD 21244-2662 410.265.9500 FAX: 410.265.8875



DES:	GLN/RJP	***************************************				
DRN:	CD					TITL
CHK:	TND					
DATE:	1/7/12	BY	NO.	REVISIONS	DATE	600' SCALE MAP NO. 47

TITLE SHEET

BLOCK NO. 24

LPWRP SCUM AND SEPTAGE FACILITY (PHASE IB)

NOTE TO CONTRACTOR: PHASE 1B AND PHASE 2 WERE ORIGINALLY

DESIGNED AND INTENDED TO BE AWARDED AS TWO SEPARATE

CONTRACTS. THE CONTRACT DOCUMENTS HAVE NOW BEEN MODIFIED IN ORDER TO FACILITATE THE MERGING OF BOTH PROJECTS INTO ONE CONTRACT. HOWEVER, IT IS ULTIMATELY THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE SEQUENCE OF CONSTRUCTION

NECESSARY TO MINIMIZE/ELIMINATE ANY AND ALL POSSIBLE

CAPITAL PROJECT S-6245 CONTRACT 20-4700

AS SHOWN

HOWARD COUNTY, MARYLAND

1. The purpose of this site development plan is to modify the Scum and Septage Receiving Facility for the Little Patuxent Water Reclaimation Plant.

GENERAL NOTES

2. The subject property is zoned M-2 per the 2-2-04 the Comprehensive Zoning Plan. 3. The coordinates shown on the drawings are based upon the Howard County Geodetic

Control which is based upon the Maryland State Plane Coordinate System. Howard County Monument Nos. 47F5 and 48D5 were used for this project.

4. All construction shall be in accordance with the latest standards and specifications of Howard County plus MSHA standards and specifications if applicable.

5. The contractor shall notify the Department of Public Works/Bureau of Engineering/Construction Inspection Division at (410) 313-1880 at least five (5) working days prior to the start of work. The contractor is to obtain any necessary permits.

6. The contractor shall notify "Miss Utility" at 1-800-257-7777 at least 48 hours prior to any excavation work being done.

7. The existing topography is taken from field run survey with one foot contour intervals

prepared by Dewberry dated April 2008. 8. Water and sewer is public.

9. The existing utilities are based on plant records and test pits.

10. The project lies within the 100-year floodplain per FEMA Map 240044-0043B, Elev 142.27' as converted from NGVD29.

11. There are no wetlands within the limits of this project.

12. This plan has been prepared in accordance with the provisions of Section 16.124 of the Howard County Code and the Landscape Manual.

13. This project is exempt from the requirements of Section 16.1200 of the Howard County Code for Forest Conservation since the improvements are contained within the previously approved limit of disturbance (Section 16.1202(b)(iii) of the Subdivision

14. See Phase 2 Contract Drawings for Soil Erosion and Sediment Control and Stormwater

15. The Little Patuxent River Water Reclaimation Plant was constructed under the following referenced plans: SDP-00-094 and SDP-78-55.

16. Project background information:

Little Patuxent River Water Reclaimation Plant Savage, Maryland Election District 6 Site Area (of this project): 0.25 acres

INDEX OF SHEETS

SHEET NO. DESCRIPTION

INSTALLATION CONFLICTS.

ELECTION DISTRICT NO. 6

EXISTING CONDITIONS AND PROPOSED SITE PLAN

BUILDING EQUIPMENT PLAN, SECTION AND PIPING SITE PLAN

BUILDING SECTIONS AND ARCHITECTURAL VIEWS

BUILDING DRAINAGE PLAN, SECTIONS AND LAYOUT DIMENSIONS

STRUCTURAL FOUNDATION PLAN AND NOTES

STRUCTURAL PLAN AND SECTIONS

E1 ELECTRICAL SYMBOLS AND NOTES

E2 ELECTRICAL SCHEDULES & DETAILS E3 ELECTRICAL PLANS & DETAILS

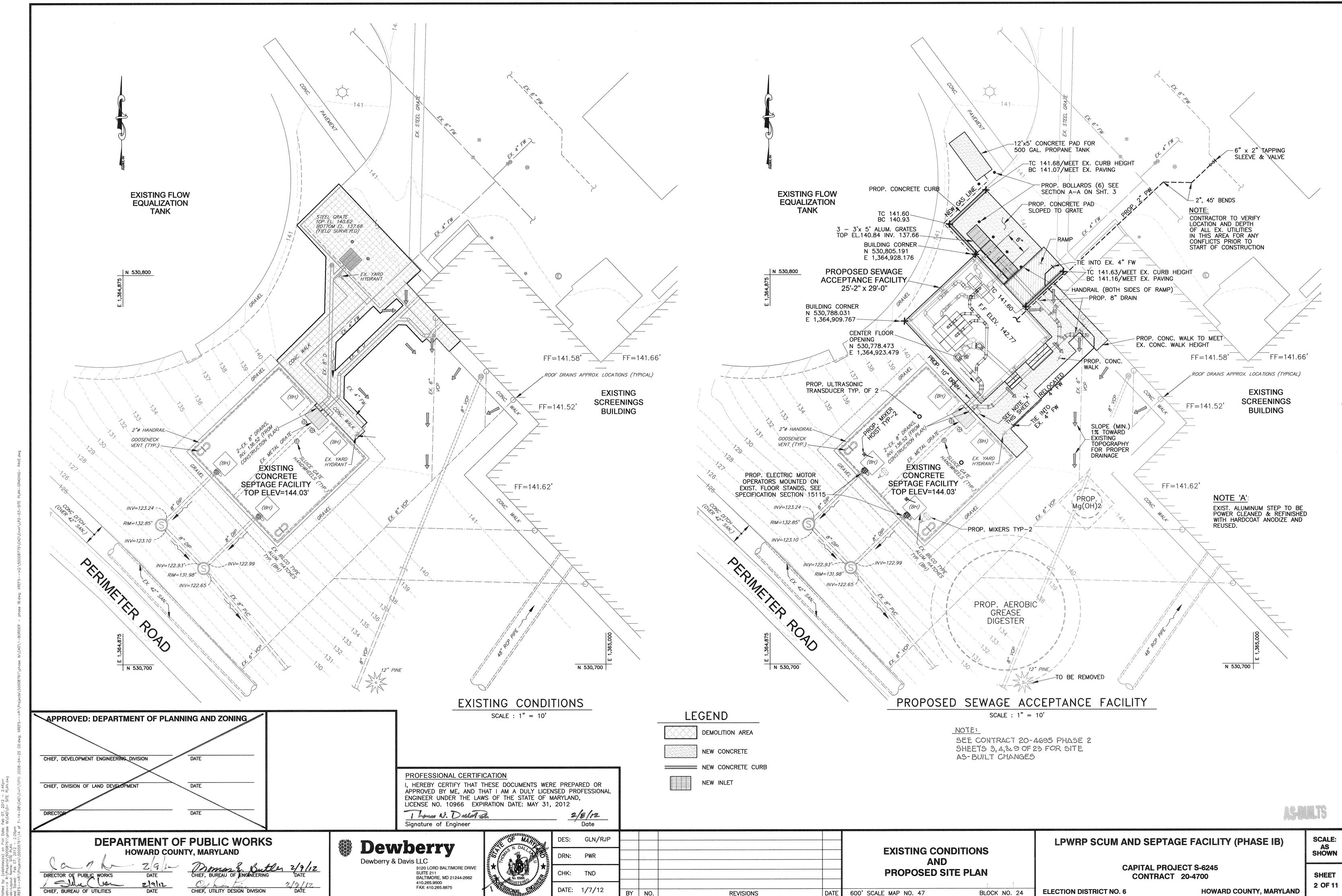
E4 ELECTRICAL POWER PLAN & DETAILS

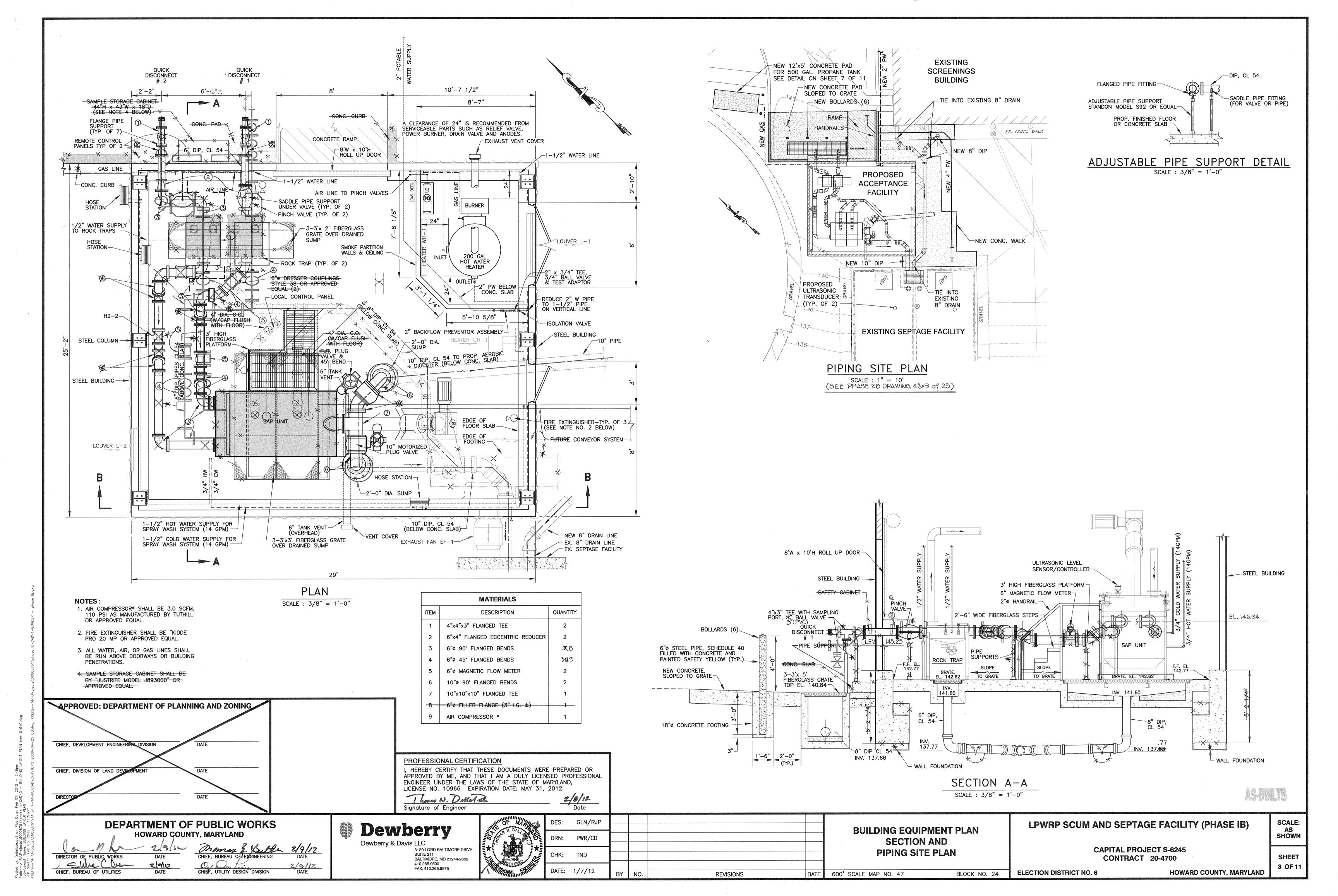
Dewberry

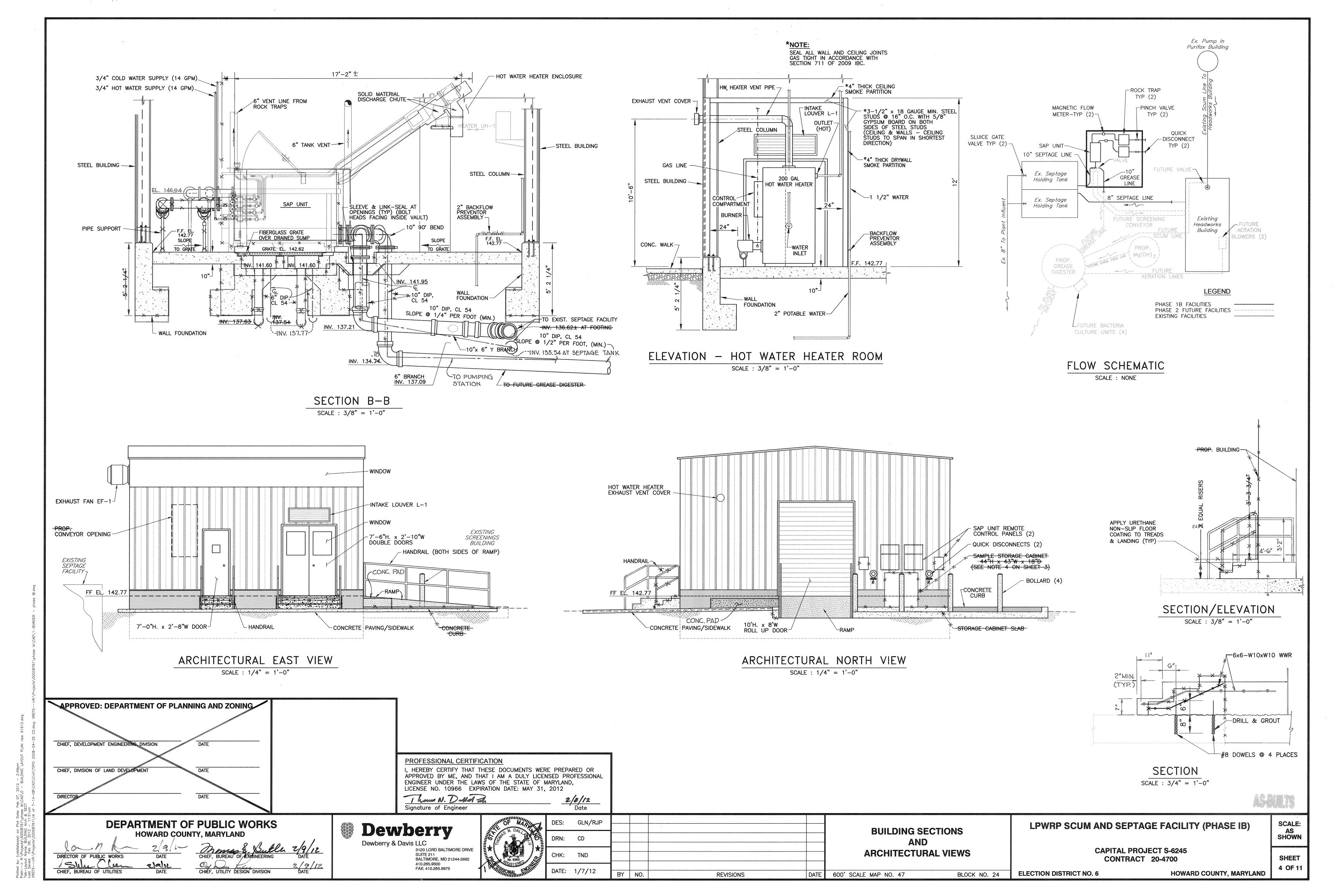
Signature of Engineer

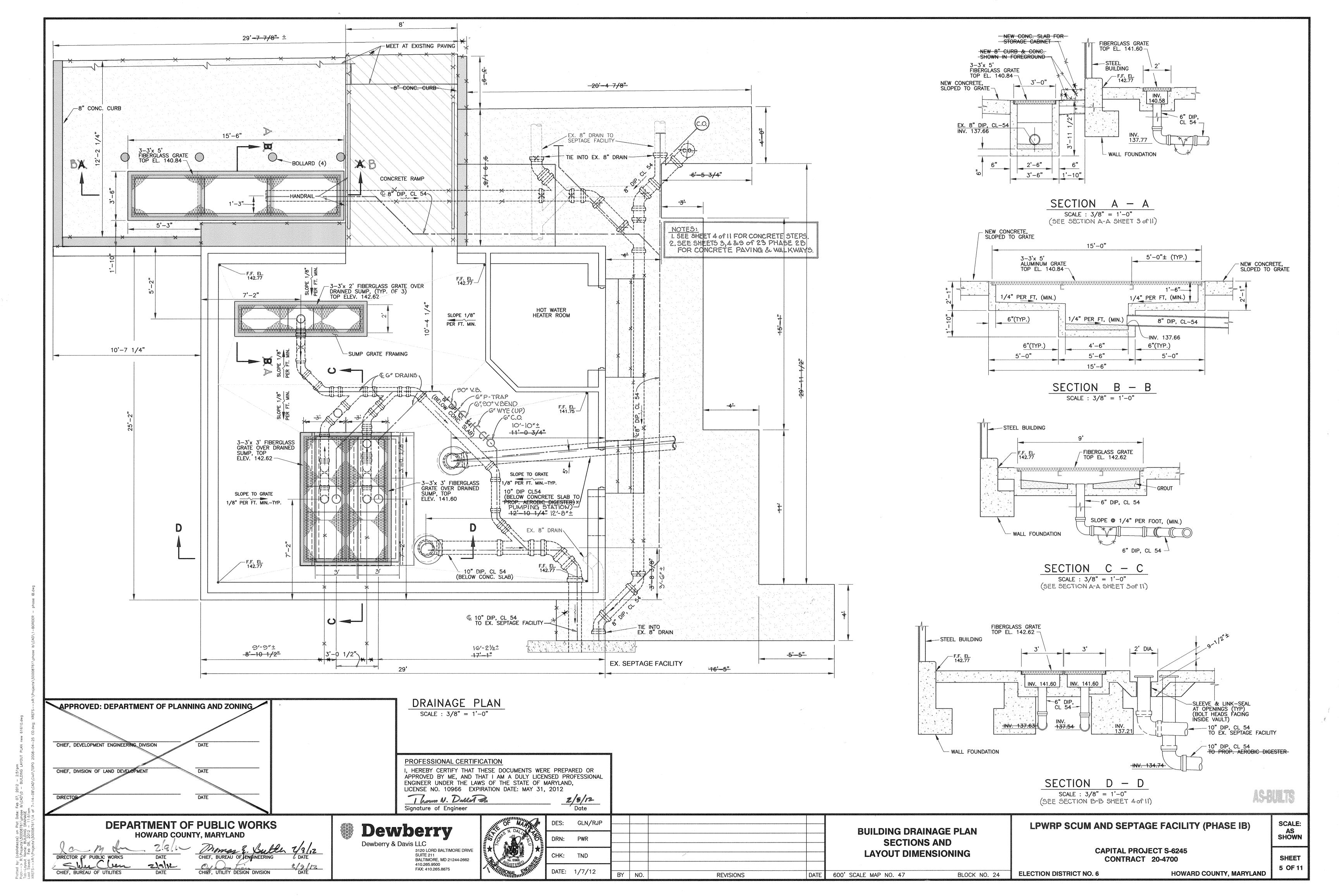
SHEET

SCALE:









STRUCTURAL NOTES

- A. SEE CIVIL/MECHANICAL DRAWINGS FOR LOCATION AND SIZE OF ALL SLAB PENETRATIONS AND FLOOR DRAINS.
- B. SEE CIVIL DRAWINGS FOR ALL ELEVATIONS NOT SHOWN ON THIS
- C. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WORK.

D. CODES AND SPECIFICATIONS:

- 1. INTERNATIONAL BUILDING CODES (I.B.C.) 2006
- 2. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY (ACI 318)
- 3. CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES AND COMMENTARY (ACI 350-01)

E. DESIGN LOADS:

1. FLOOR LIVE LOAD	100 PSF
2. GROUND SNOW	25 PSF
3. WIND LOADS:	
a. BASIC WIND SPEED	90 MPH

4. SEISMIC LOADS:

b. EXPOSURE

a. SPECTRAL RESPONSE COEFFICIENT	Ss= 0.159 S1= 0.050
b. SITE CLASS	D

F. CAST IN PLACE CONCRETE:

- 1. UNLESS NOTED OTHERWISE, ALL CAST IN PLACE CONCRETE SHALL BE AIR ENTRAINED WITH A MAXIMUM SLUMP OF 4 INCHES. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE ACI 318 AND ACI 301. CONCRETE SHALL ATTAIN MINIMUM 28 DAY STRENGTH OF 4000 PSI UNLESS OTHERWISE APPROVED.
- 2. ALL REINFORCING STEEL FOR CONCRETE SHALL CONFORM TO ASTM SPECIFICATIONS A 615, GRADE 60 FOR BARS AND A 185 FOR WELDED WIRE FABRIC. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH CURRENT ACI "MANUAL OF STANDARD PRACTICES FOR DETAILING REINFORCED CONCRETE STRUCTURES". BAR LAPS SHALL BE CLASS "B" TENSION LAPS. PROVIDE CONCRETE COVER OVER REINFORCING BARS IN ACCORDANCE WITH ACI 318. HOOKS SHOWN SHALL BE STANDARD HOOKS UNLESS OTHERWISE DIMENSIONED.

G. FOUNDATIONS:

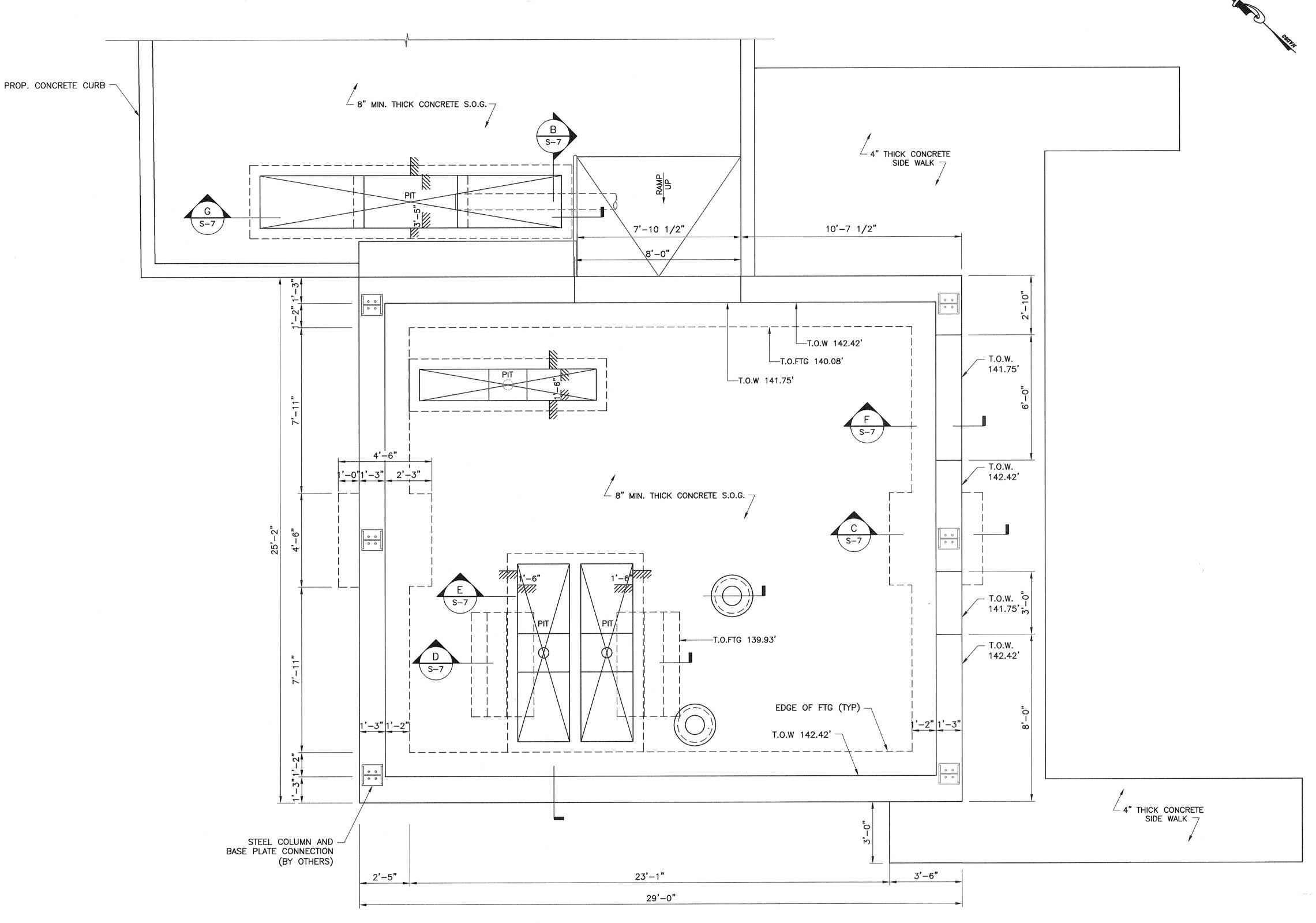
- 1. PROVIDE POLYETHYLENE PLASTIC VAPOR BARRIER OVER A MINIMUM 12 INCHES #57 STONE UNDER SLAB ON GRADE.
- 2. PROVIDE A MINIMUM NET ALLOWABLE BEARING CAPACITY OF 2,000 PSF BELOW ALL THE FOOTINGS AND TO A DISTANCE OUTSIDE THEIR PERIMETER SO AS TO INSURE PROPER FOUNDATION PERFORMANCE AS VERIFIED BY THE GEOTECHNICAL ENGINEER.
- 3. ALL SUBGRADE, FOOTING EXCAVATIONS, COMPACTED FILL AND BACKFILL SHALL BE INSPECTED AND TESTED BY A GEOTECHNICAL ENGINEER REGISTERED AS A PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND TO VERIFY CONFORMANCE WITH THE RECOMMENDATIONS HEREIN.
- 4. DURING CONSTRUCTION AND BACKFILLING OPERATIONS THE GROUND WATER LEVEL SHALL BE MAINTAINED AT 2 FEET (MIN.) BELOW THE BOTTOM OF THE EXCAVATION.

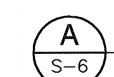
LEGEND

1'-0"

INDICATES SLAB DEPRESSION

S.O.G. T.O.FTG. SLAB ON GRADE TOP OF FOOTING T.O.S. T.O.W. TOP OF SLAB TOP OF WALL





FOUNDATION PLAN

SCALE: 3/8"=1'-0"(SEE DRAINAGE PLAN ON SHEET 5 of 11)

SEE SHEET 7 FOR SECTION CUTS SHOWN ON THIS SHEET

APPROVED: DEPARTMENT OF PLANNING AND ZONING CHIEF, DEVELOPMENT ENGINEERING DIVISION CHIEF, DIVISION OF LAND DEVELOPMENT

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

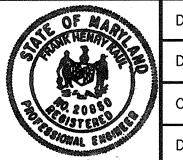
A III	SANUID COCIA	H H A HARLING H I STATE OF A HARLA	
2016	2/9/2	moman & Suttle	2/8/12
DIRECTOR OF PUBLIC WORKS	DATE	CHIEF, BUREAU OF ENGINEERING	DATE
Sulu Clum	2/2/12	Of On Frie	2/9/12
CHIEF, BUREAU OF UTILITIES	DATE	CHIEF, UTILITY DESIGN DIVISION	DATE *

Dewberry

3120 LORD BALTIMORE DRIVE SUITE 211 BALTIMORE, MD 21244-2662 410.265.9500 FAX: 410.265.8875

Signature of Engineer

PROFESSIONAL CERTIFICATION



2-1-12

I, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR

ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20850 EXPIRATION DATE: MAY 30, 2011

APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL

	0 0 0 0					
DES:	YHD/KY					
DRN:	YHD/KY					
CHK:	FHK					
DATE:	1/31/12	BY	NO.	REVISIONS	DATE	
	DRN: CHK:	DES: YHD/KY DRN: YHD/KY	DES: YHD/KY DRN: YHD/KY CHK: FHK	DES: YHD/KY DRN: YHD/KY CHK: FHK	DES: YHD/KY DRN: YHD/KY CHK: FHK DATE: 1/31/12 BY NO. REVISIONS	DES: YHD/KY DRN: YHD/KY CHK: FHK

STR	UCTUF	?AL		
DUNDATION	PLAN	AND	NOTES	

LPWRP	SCUM	AND	SEPTAGE	FACILITY	(PHASE	IB)

CAPITAL PROJECT S-6245 CONTRACT 20-4700

SCALE: AS SHOWN SHEET

6 OF 11

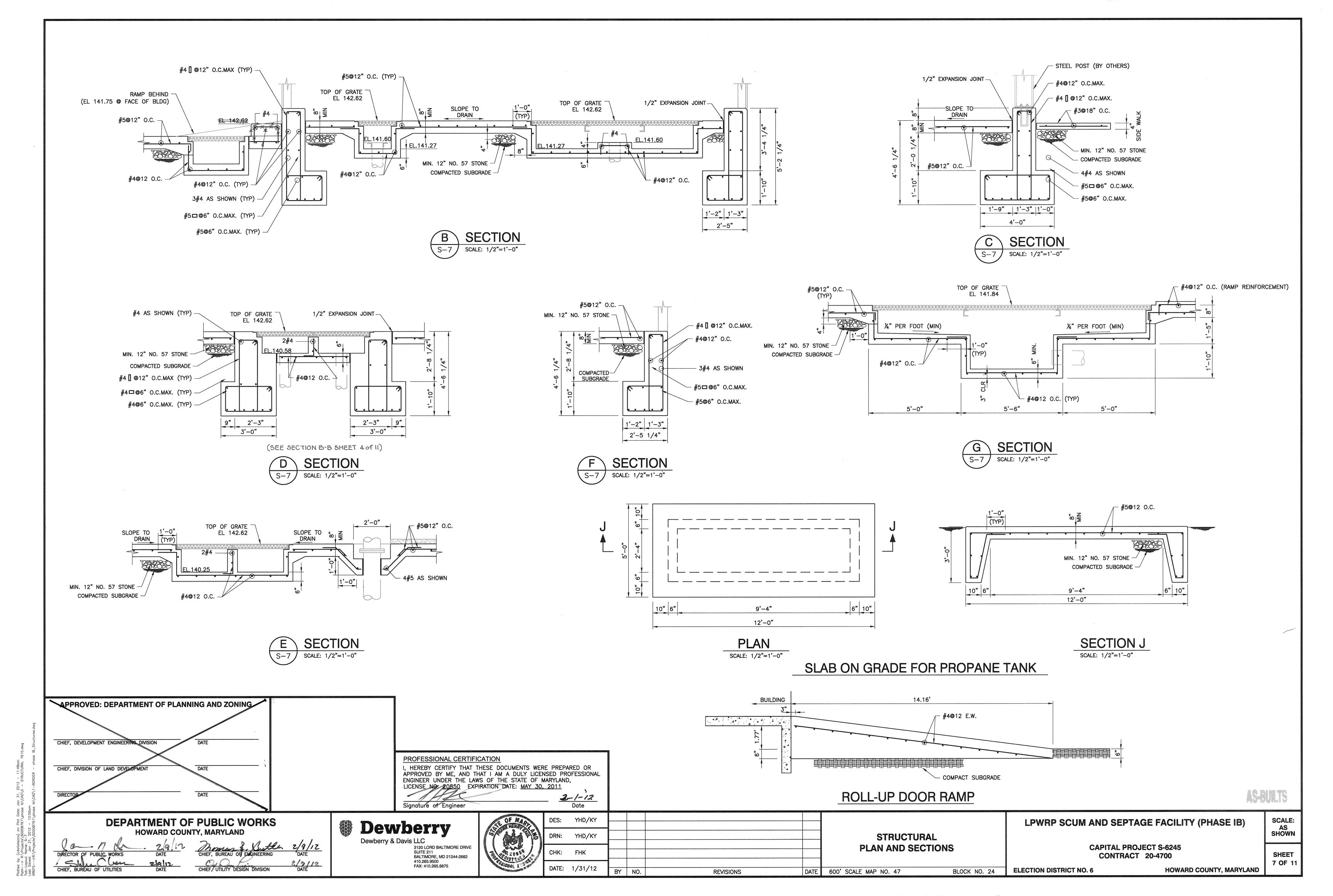
Dewberry & Davis LLC

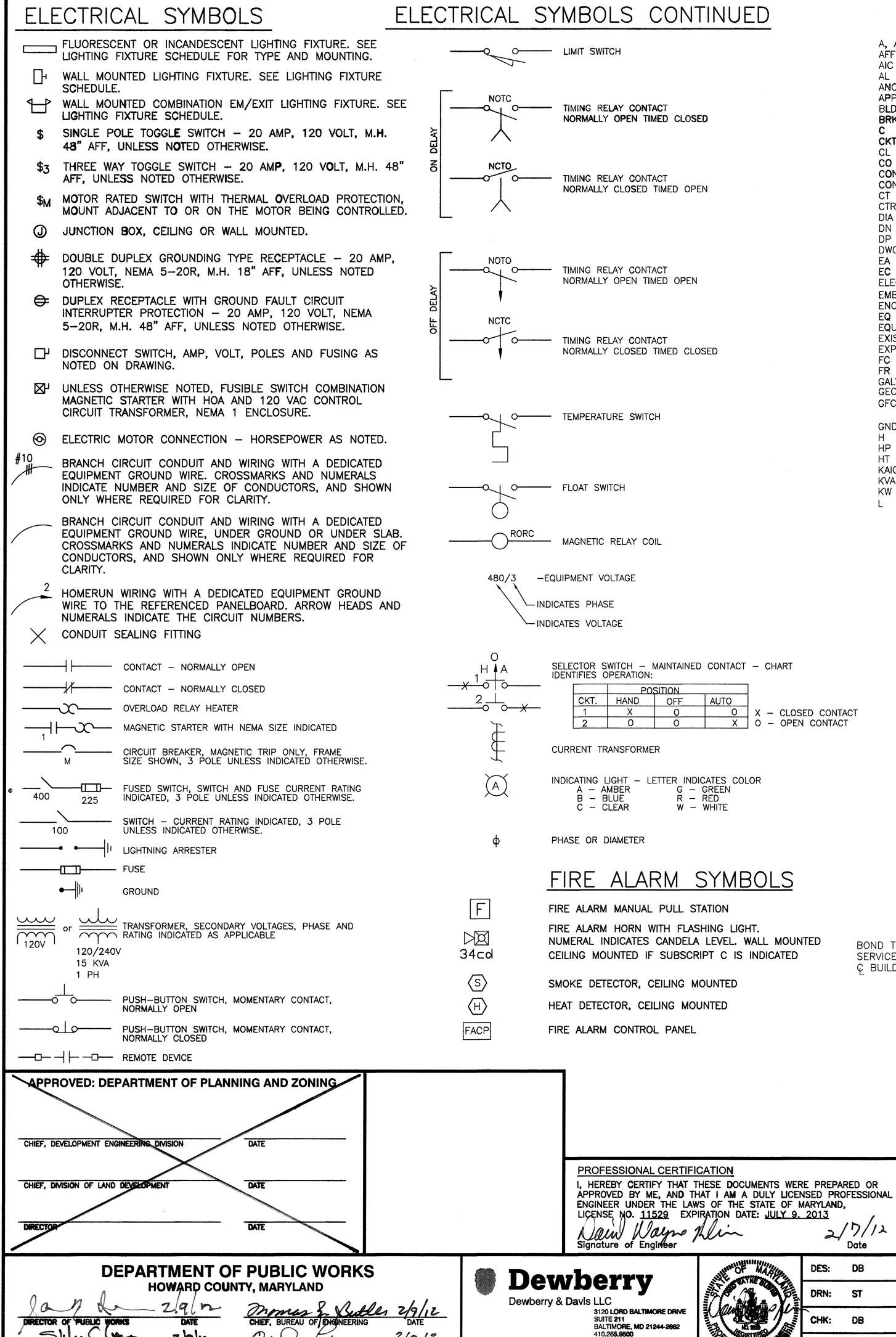
600' SCALE MAP NO. 47

BLOCK NO. 24

ELECTION DISTRICT NO. 6

HOWARD COUNTY, MARYLAND



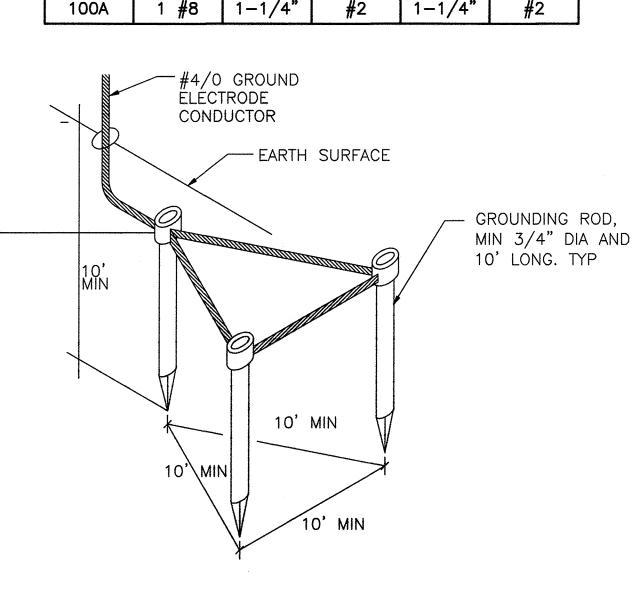


ABBREVIATIONS

HP HORSEPOWER V VOLTS	A A A A A B B C C C C C C C C C C C C C	CONC CONT T TR NA NA C LEC, ELECT'L MBED NCL Q QUIP XIST XP C R ALV EC FCI ND	AMPERE ABOVE FINISHED FLOOR SYMMETRICAL AMPERE INTERRUPTING RATING ALUMINUM ANCHOR APPROXIMATE BUILDING CIRCUIT BREAKER CONDUIT CIRCUIT CENTERLINE COMPANY CONCRETE CONTROL CURRENT TRANSFORMER CONTROL DIAMETER DOWN DEEP DRAWING EACH EMPTY CONDUIT ELECTRICAL EMBEDMENT DEPTH ENCLOSURE EQUAL EQUIPMENT EXISTING EXPANSION FOOTCANDLE FROM GALVANIZED GROUND ELECTRODE CONDUCTOR GROUND HIGH HORSEPOWER HEATER	LOC LTS MAT'L MECH MCB MTD NEC NTS OD OHE OPN'G PL PNL, PANEL PRI PWR QTY RCP RECEPT RQM'TS SEC SPR STA STR SVC SURF SVC SURF SW T TEL THRU TRANS, TRANSF TSTAT TYP UG, UGE UT, V VAC	LOCATION LIGHTS MATERIAL MECHANICAL MAIN CIRCUIT BREAKER MOUNTED NATIONAL ELECTRICAL CODE NOT TO SCALE OUTSIDE DIAMETER OVERHEAD ELECTRICAL OPENING POLE OR PHASE PLATE CIRCUIT BREAKER PANELBOARD PRIMARY VOLTAGE (ABOVE 600 VOLTS) POWER QUANTITY REACTOR CONTROL PANEL RECEPTACLE REQUIRED REQUIREMENTS SECONDARY VOLTAGE (600 VOLTS OR LESS) STANDARD PRACTICE RECOMMENDATION, SIZE FOR CRUSHED STONE STAINLESS STEEL STATION, AS IN PUMP STATION STRUCTURE SERVICE SURFACE SWITCH TRANSFORMER THERMOSTAT TYPICAL UNDERGROUND ELECTRICAL UNDERGROUND TELEPHONE VOLTS VOLTS A.C.
	Н		GROUND	UG, UGE UT, UGT	UNDERGROUND ELECTRICAL UNDERGROUND TELEPHONE
KAIC 1000 AIC W WIDE OR WIRE				•	
KAIC 1000 AIC W WIDE OR WIRE KVA KILOVOLT-AMPERES W/ WITH	K'	W	KILOWATTS	WW	WIREWAY
KAIC 1000 AIC W WIDE OR WIRE KVA KILOVOLT—AMPERES W/ WITH	IV.	**			
KAIC 1000 AIC W WIDE OR WIRE KVA KILOVOLT-AMPERES W/ WITH KW KILOWATTS WW WIREWAY	L		ANGLE, LENGTH	XP	EXPLOSION PROOF (CLASS DIVISION GROUP D UNLESS NOTED)

CONDUIT & WIRE SIZE SCHEDULE (UNLESS OTHERWISE SHOWN)

CIRCUIT BREAKER	GROUND WIRE	1 OR 2 POLE		3 POLE	
TRIP	SIZE	CONDUIT	WIRE	CONDUIT	WIRE
15A	1 #12	3/4"	#12	3/4"	#12
20A	1 #12	3/4"	#12	3/4"	#12
30A	1 #10	3/4"	#10	3/4"	#10
40A	1 #10	3/4"	#8	1"	#8
50A	1 #10	3/4"	# 8	1"	#8
60A	1 #8	1"	#6	1"	#6
70A	1 #8	1"	#4	1-1/4"	#4
80A	1 #8	1-1/4"	#4	1-1/4"	#4
90A	1 #8	1-1/4"	#2	1-1/4"	#2
1004	4 //0	4 4 / 4"	// 0	4 4 /4"	// 0

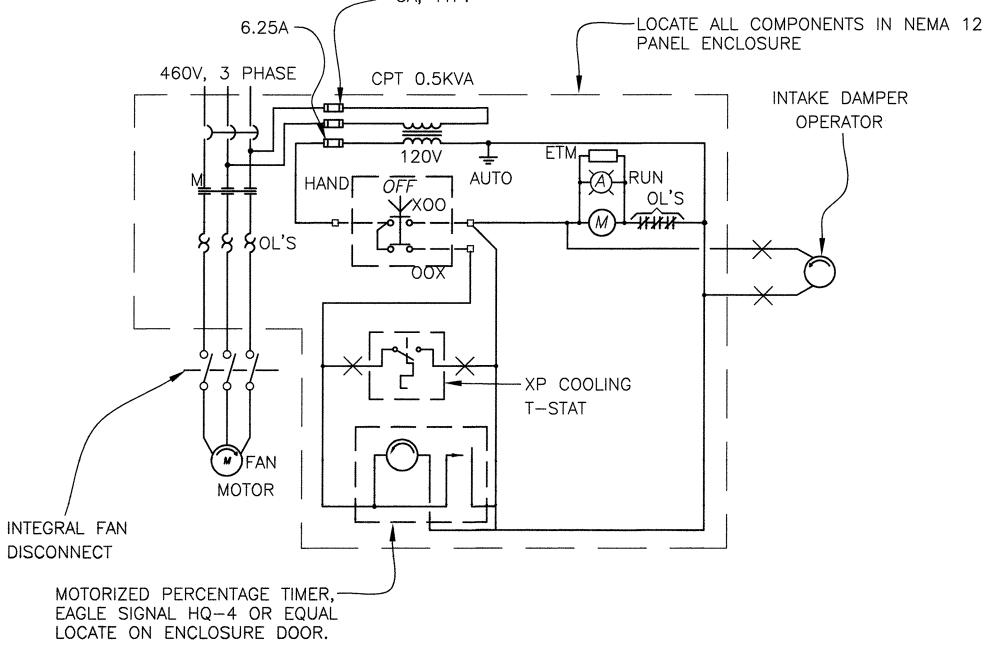


GROUNDING ELECTRODE DETAIL SCALE: NOT TO SCALE

GENERAL ELECTRICAL CONSTRUCTION NOTES

THE DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENT OF THE ELECTRICAL SYSTEMS.

- 1. LOCATIONS OF LINES AND EQUIPMENT SHALL BE DETERMINED FROM ACTUAL FIELD CONDITIONS. THE OUTLINES OF THE CONSTRUCTION SHOWN ON THE ELECTRICAL DRAWINGS ARE INTENDED ONLY AS A GUIDE TO INDICATE RELATIVE LOCATIONS OF THE WORK. REFER TO THE APPLICABLE DRAWINGS OF OTHER TRADES AND THE EQUIPMENT SUPPLIER'S INSTALLATION DRAWINGS FOR EXACT LOCATIONS AND ARRANGEMENTS.
- 2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER RELATION OF HIS WORK TO THE FACILITY STRUCTURES AND TO THE WORK OF OTHER TRADES. NO ADDITIONAL COMPENSATION NOR EXTENSION OF COMPLETION TIME WILL BE GRANTED FOR EXTRA WORK CAUSED BY THE LACK OF COORDINATION.
- 3. DUE TO DIFFERENCES IN VARIOUS MANUFACTURER'S EQUIPMENT CONNECTIONS AND MOTOR CURRENTS, THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS INSTALLATION WITH THAT EQUIPMENT ACTUALLY FURNISHED AND SHALL VERIFY THE CORRECT SIZES AND DETAILS OF INSTALLATION BEFORE ROUGHING
- 4. RECEPTACLES, SWITCHES, THERMOSTATS, AND OTHER SIMILAR ITEMS SHALL ALIGN VERTICALLY OR HORIZONTALLY WITH EACH OTHER, WITH THE STRUCTURE AND OTHER FEATURES THEREOF WHEN IT APPEARS OBVIOUS AND LOGICAL THAT THEY SHOULD. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE GENERAL CONSTRUCTION SUPERINTENDENT REGARDING THIS REQUIREMENT AND ALSO FOR THE LOCATION OF EQUIPMENT, DOOR SWINGS, BLOCK COURSING, ALIGNMENT OF THIS AND OTHER SIMILAR FEATURES BEFORE ROUGHING-IN FOR THESE COMPONENTS.
- 5. ALL CONDUITS ENTERING UNDERGROUND STRUCTURES SHALL HAVE WATERTIGHT EXPANSION WALL SEALS.
- 6. THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- 7. ALL CONDUITS WITH WIRING ENTERING UNDERGROUND STRUCTURES WHERE WATER MIGHT ENTER THE CONDUIT AND DRAIN INTO THE STRUCTURE, SHALL BE FITTED WITH WATERTIGHT BUSHINGS WITH SEALING COMPOUND SUCH AS OZ/GEDNEY STYLE CSB.
- 8. ALL ABOVE GROUND RACEWAYS & RACEWAYS INSIDE STRUCTURES SHALL BE RUN EXPOSED.



SCHEMATIC, FAN EF-1 CONTROL

CONDUIT SEALING FITTING

ELECTION DISTRICT NO. 6

AS BUILTS



FAX: 410.265.8875

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	<i>5</i>				
	DRN:	ST			
	CHK:				
		DB			
	DATE:	0 /7 /10			
		2///12	BY	NO.	REVISIONS

BOND TO WATER ←

C BUILDING FRAME

SERVICE LINE

E1 ELECTRICAL SYMBOLS NOTES

BLOCK NO. 24

DATE 600' SCALE MAP NO. 47

LPWRP SCUM AND SEPTAGE FACILITY (PHASE IB)

CAPITAL PROJECT S-6245 CONTRACT 20-4700

SHEET 8 OF 11

HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN

ELECTRIC POWER RISER DIAGRAM

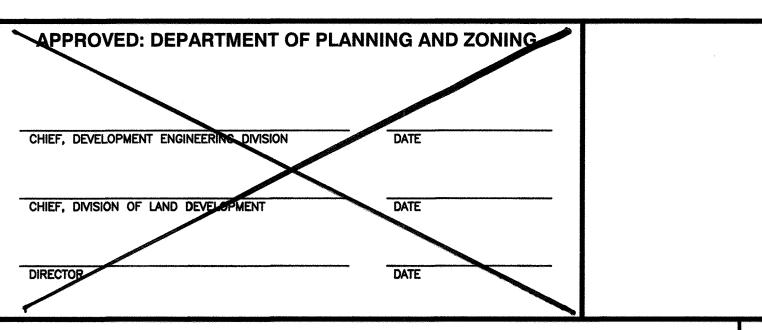
NOTE: SEE SHT. E-4 FOR LOCATION OF PANELS.

PANEL SCHEDULE																
PANEL: L2						60	AMPS	s, N	MIAN	CIRCU	IT BR	EAKE	R			PHASE: 3
POLE SPACES: 18						MOL	INTIN	<u>G:</u>	SUF	RFACE						WIRE: 4
LOCATION: SAP						120	/208	V	OLTS							NEMA 3R ENCLOSURE
LOAD	KW/P	HASE		CIR/	BKR	WIRE	CIR. NO.	R	CIR.	WIRE			KW/P	HASE		LOAD
LUAD	Α	В	С	POLE	TRIP	WILLE	NO.	刮	NO.	WIKE	POLE	TRIP	Α	В	С	LOAD
LIGHTS	0.42			1	20	12	1	Α	2	-	1	20	-			SPARE
LIGHTS		1.1		1	20	12	3	В	4	-	1	20				SPARE
AIR COMP.			0.9	2	20	12	5	C	6	-	1	20			_	SPARE
	0.9			_	-	-	7	Α	8	12	2	15	1			UH-3
GAS DETECTOR		0.4		1	15	12	9	В	10	-	-	_		1		
WATER HEATER			0.67	1	20	12	11	C	12	12	1	20			0.6	RECEPTACLES
ACCESS CTR	8.0			1	15	12	13	Α	14	1	-		-			SPACE
SPACE							15	В	16	1	_			-		SPACE
SPACE						****	17	C	18	-		-			_	SPACE

SUITABLE FOR SERVICE ENTRANCE EQUIPMENT

,				P	AN	IEL		3(CH	ED	UL	E.				
PANEL: H2 POLE SPACES: 30 LOCATION: SAP		60 AMPS, MAIN CIRCUIT BREAKER <u>MOUNTING:</u> SURFACE 480 VOLTS										PHASE: 3 WIRE: 3 NEMA 3R ENCLOSURE				
LOAD	KW/F	PHASE B	С	CIR/ POLE	BKR TRIP	WIRE	CIR. NO.	PHASE	CIR. NO.	WIRE		BKR TRIP	KW/F A	HASE B	С	LOAD
UH-1	3.3			3	20	12	1	Α	2	12	3	20	3.3			UH-2
_		3.3			-	_	3	В	4	-	_	_		3.3		-
_			3.3				5	C	6		_	_			3.3	_
EF-1	0.3		5. IS. INC. INC. INC. INC.	3	15	12	7	Α	8	12	3	20	11			SAP
		0.3			-		9	В	10	-				2		
_	<u> </u>		0.3				111	C	12			_			2	
SLUICE GATES	0.5			3	15	12	13	Α	14		3	20				SPARE
mu-	ļ	0.5		<u> </u>			15	В	16			_				<u> </u>
			0.5	<u> </u>			17	C	18							
PLUG VALVE	0.3			3	15	12	19	Α	20		3	15				SPARE
		0.3		<u> </u>			21	В	22		<u> </u>					***
			0.3				23	Ċ	24							-
SPACE	ļ						25	Δ	26							SPACE
				<u> </u>				В	28		<u>.</u>					SPACE
<u> </u>	<u> </u>			<u></u>			29	C	30		L				<u></u>	SPACE

SUITABLE FOR SERVICE ENTRANCE EQUIPMENT



I, HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 11529 EXPIRATION DATE: JULY 9. 2013

Signature of Engineer Date

PROFESSIONAL CERTIFICATION

FAN SCHEDULE EQUIP. AIR FLOW (CFM) MOTOR TYPE CONTROL **VOLTAGE** EXTERNAL HP TYPE RPM **FEATURES** MODEL STATIC WG PHASE NO. AUTO BELT TENSIONERS BELT DRIVE SIDE WALL GREENHECK CWB-121-4 460/3 TSTAT AND CENTRIFUGAL — ALUMINUM CONSTRUCTION, STAINLESS 0.2 947 1/4 TIMER AS DETAILED STEEL SHAFT AND FASTENERS, MOUNT AT EAVE HEIGHT

LIGHT FIXTURE SCHEDULE										
MARK	SYMBOL	DESCRIPTION	LAMP	MANUFACTURER TYPE	REMARKS					
A		2 LAMP 4' FLUORESCENT WHITE ENAMEL OPEN REFLECTOR. 8% UPLIGHT. 120 VOLT	2-32W T8	LITHONIA LA MULTI-TAP BALLAST	PENDANT MOUNT UP 10'					
B	1	METAL HALIDE CLASS I, DIVISION 1. EPOXY COATED ALUMINUM BODY, GLASS GLOBE, POLYESTER DOME HOOD. 120 VOLT	175 W, PULSE START MH	APPLETON CODE MASTER JR W/ PULSE START MULTI—TAP BALLAST	PENDANT MOUNT UP 13'					
©		WALL MOUNT COMPACT FLUORESCENT OUTDOOR WALL MOUNT. CAST ALUMINUM BODY, GLASS LENS, NATURAL ALUMINUM FINISH	2-42 W TRT	LITHONIA TWF W/ MULTI-TAP BALLAST	WALL MOUNT ON BUILDING. HEIGHT AS DIRECTED BY THE ENGINEER. PROVIDE PHOTO CONTROL.					
D	1	WALL MOUNT COMBINATION EM/EXIT WALL MOUNT FIXTURE. WITH REMOTE HEAD CLASS 1, DIV. 1	3-14W TUNGSTEN HALOGEN	CROUSE HINDS ELPS502 EXD GB AND EVLA12	WALL MOUNT ABOVE DOOR					

	H							
MARK NO.	TYPE	USE	HxW (IN)	FREE AREA	CONSTRUCTION	TYPE:	REMARKS	
L-1	STATIONART EXTRUDED ALUMINUM, DRAINABLE BLADE	INTAKE	18"X54"	2.26	EXTRUDED ALUMINUM	RUSKIN GFL800D DRAINABLE BLADE	SEE NOTES-1, 2, 3.	
L-2	MOTORIZED ADJUSTABLE DRAINABLE BLADE LOUVER. MOTOR OPEN, SPRING CLOSED	INTAKE	36"X36"	2.45	EXTRUDED ALUMINUM	RUSKIN ELM811D 120 VAC ACTUATOR IN CLASS 1, DIV 1 HOUSING	SEE NOTES-1, 2, 4.	

NOTES:

- 1. COLOR TO MATCH BUILDING COLOR.
- 2. PROVIDE REMOVABLE INTERIOR ALUMINUM BIRD SCREEN
- 3. MOUNT ABOVE DOOR
- 4. MOUNT TOP AT BUILDING EAVE HEIGHT

	E	LECTRIC	HEATER	SCHEDULE	
MARK NO.	TYPE	CAPACITY	VOLTS/PHASE	DESCRIPTION	TYPE:
W — 1	INSTITUTIONAL SLOPE TOP ELECTRIC WALL CONVECTOR	1500 W	480/1	4' LENGTH X 5" DEPTH STEEL CONSTRUCTION, STAINLESS STEEL ELEMENT, INTEGRAL THERMOSTAT AND THERMAL OVERLOAD	TPI 8800 SERIES MOUNT BOTTOM UP 5"
UH-1/UH-2	HAZARDOUS LOCATION HORIZONTAL SUSPENSION ELECTRIC UNIT HEATER	10 KW	480/3	STEEL AND STAINLESS STEEL CONSTRUCTION, THERMAL CUTOUT, INTEGRAL DISCONNECT, CONTACTOR, AND TRANSFORMER, WALL MOUNTED THERMOSTAT, WALL MOUNTING BRACKET	TPI HLA SERIES WITH HLT THERMOSTAT MOUNT BOTTOM UP 8'
UH-3	COMPACT HORIZONTAL SUSPENSION ELECTRIC UNIT HEATER	1.9 KW	208/1	INTEGRAL THERMOSTAT W/POSITIVE OFF MOUNTING BRACKET	BERKO PHFP25 MOUNT BOTTOM UP 7'6"

REFER TO EXHIBIT E FOR THE AS CONSTRUCTED PANEL SCHEDULES

AS BUILTS

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS

Dewberry Dewberry & Davis LLC 3120 LORD BALTIMORE DRIVE SUITE 211 BALTIMORE, MD 21244-2662 410.265.9500 FAX: 410.265.8675



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E-2 ELECTRICAL **SCHEDULES & DETAILS**

BLOCK NO. 24

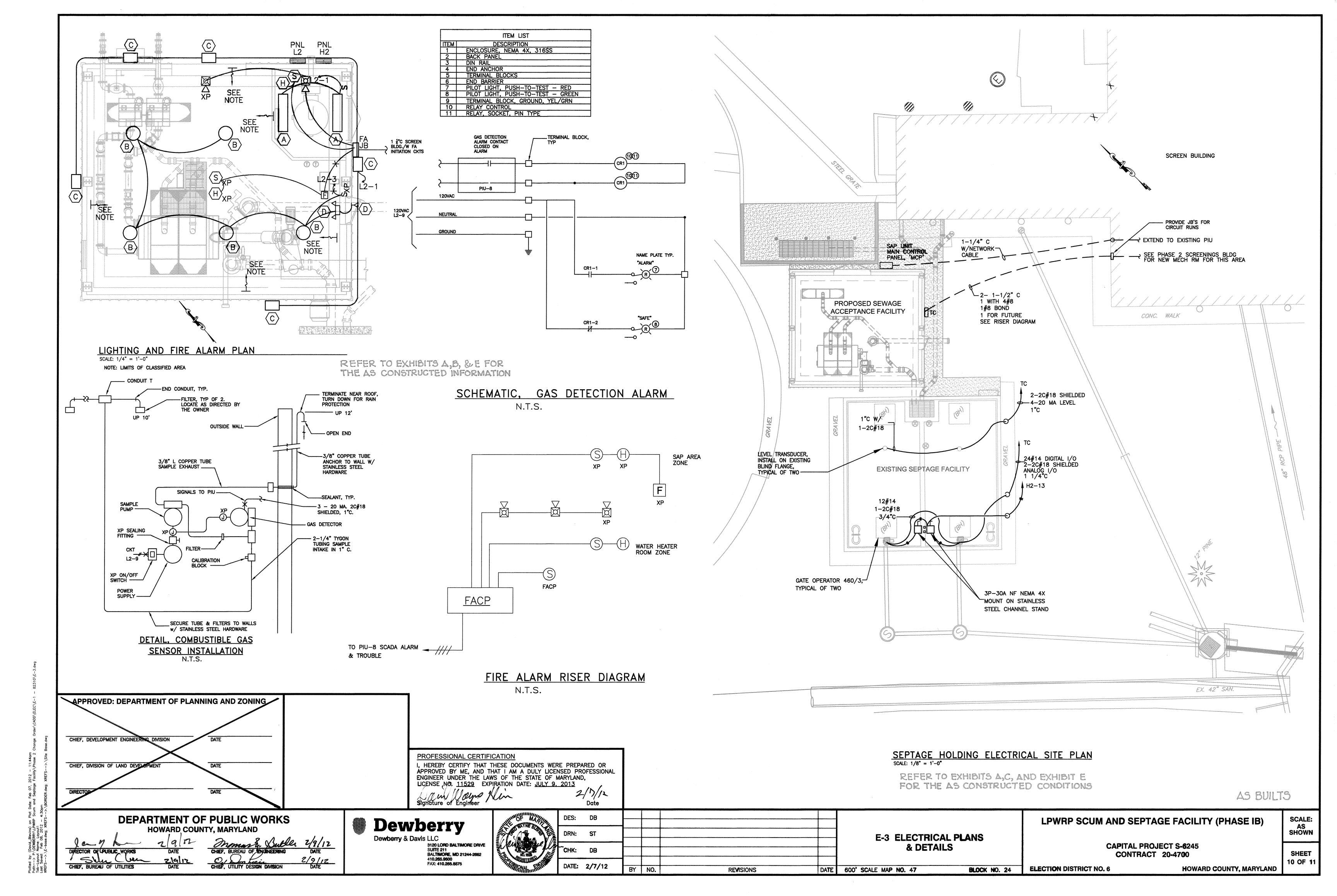
LPWRP SCUM AND SEPTAGE FACILITY (PHASE IB)

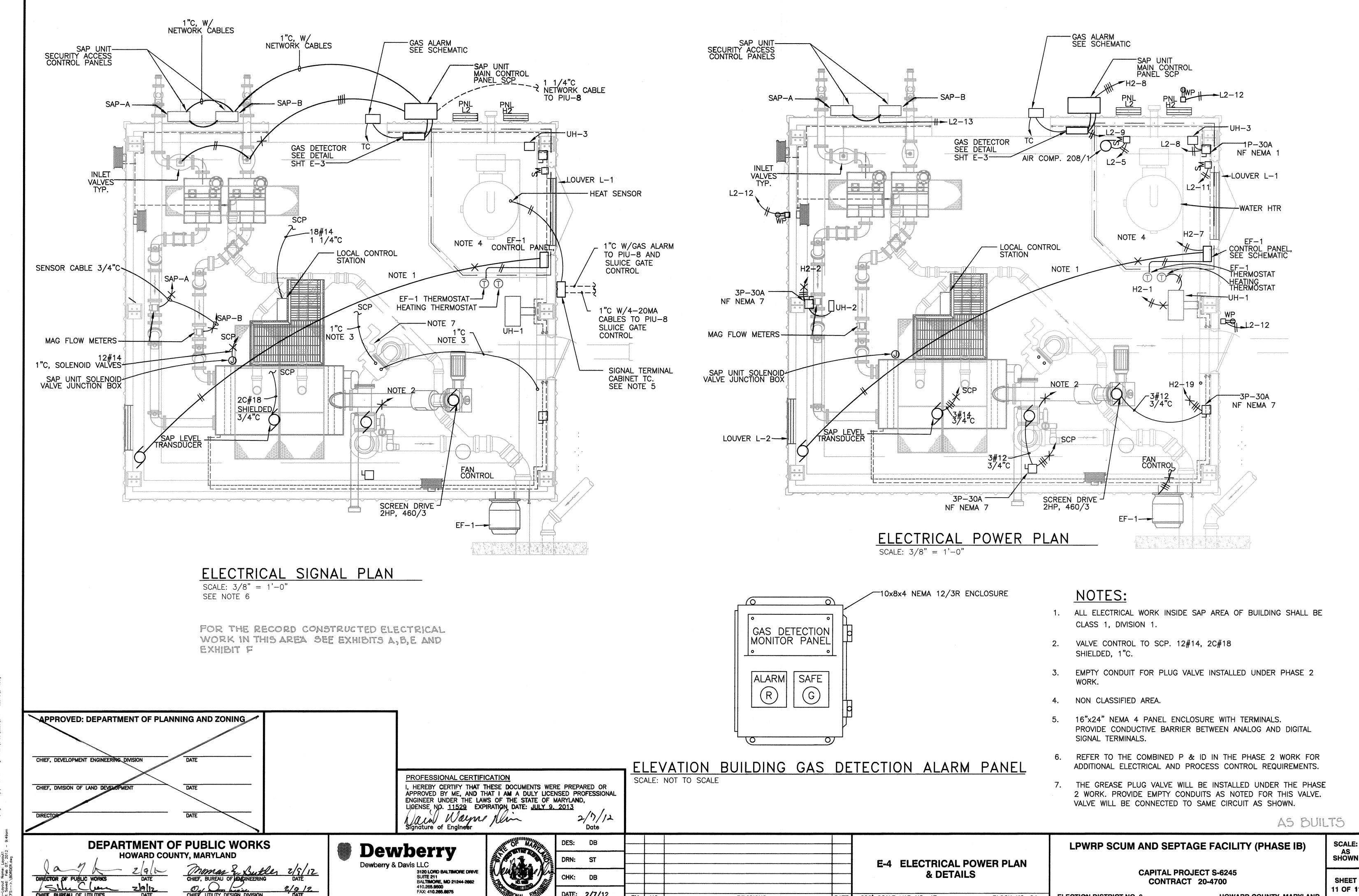
CAPITAL PROJECT S-6245 CONTRACT 20-4700 **ELECTION DISTRICT NO. 6**

MOWARD COUNTY, MARYLAND

SHEET 9 OF 11

SCALE: AS SHOWN





CHK: DB

DATE: 2/7/12

BY NO.

REVISIONS

DATE 600' SCALE MAP NO. 47

SHEET 11 OF 11

HOWARD COUNTY, MARYLAND

CONTRACT 20-4700

ELECTION DISTRICT NO. 6

BLOCK NO. 24