

# 277 WINDSOR LIFT STATION IMPROVEMENTS SEWER ASSESSMENT & REHABILITATION PROGRAM (SARP 10) CITY OF MEMPHIS, TENNESSEE





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ABES ENGINEERING, INC 2500 MT. MORIAH RD. SUITE H229 MEMPHIS, TN 38115 901 340-3011

### SANITARY SEWER NOTES:

- 1. LOCATION OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND ARE NOT NECESSARILY ALL OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND/OR UNDERGROUND STRUCTURES PRIOR TO THE INITIATION OF ANY CONSTRUCTION. CONTRACTOR SHALL ALSO ASSUME FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN CONSTRUCTION PERIMETERS. FOR SITE LOCATIONS OF EXISTING UTILITIES INVOLVING M.L.G.&W., SOUTH CENTRAL BELL, TEXAS GAS COMPANY, AND/OR CITY OF MEMPHIS SEWER, PLEASE CALL 811.
- 2. CONTRACTOR SHALL ENSURE UNINTERRUPTED SEWER SERVICE ON EXISTING SEWER AND SERVICE CONNECTIONS BY PROVIDING AMPLE TEMPORARY WASTEWATER PUMPING AND/OR BYPASSING.
- 3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES.
- 4. CONTRACTOR SHALL NOTIFY THE CITY OF MEMPHIS CONSTRUCTION INSPECTION OFFICE AT 636-2462 A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- 5. ALL AREAS IN CUT OR FILL WHERE VEGETATION HAS BEEN REMOVED SHALL BE SEEDED, MULCHED, FERTILIZED, AND/OR SODDED AS REQUIRED TO PREVENT EROSION.
- 6. THE CONTRACTOR SHALL VERIFY EXISTING DATA AND REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ENGINEER.
- 7. ALL SANITARY SEWER TO BE CONSTRUCTED AS PER CITY OF MEMPHIS STANDARD CONSTRUCTION SPECIFICATIONS. SANITARY SEWER SERVICE CONNECTIONS TO BE INSTALLED AS PER CITY OF MEMPHIS STANDARD SST-16.
- 8. ALL SEWER MANHOLE LIDS IN OPEN AREAS ARE TO BE CONSTRUCTED 1.5' ABOVE PROPOSED GRADE. IN BACKYARDS, MANHOLE LIDS ARE TO BE 1.5' ABOVE INITIAL GRADE, 0.5' ABOVE FINAL GRADE.
- 9. ALL SANITARY SEWER, INCLUDING SERVICE CONNECTIONS, WHICH HAS LESS THAN 1.5' CLEARANCE (OUTSIDE OF PIPES) WITH DRAINAGE OR IN FILLED AREAS SHALL BE CLASS 50 D.I.P. OR CONCRETE ENCASED, 10' MINIMUM BOTH SIDES OF CROSSING. ALL DUCTILE IRON PIPE (D.I.P) SHALL BE POLYETHYLENE LINED OR SHALL BE TREATED WITH PROTECTO 401 OR APPROVED EQUIVALENT.
- 10. THE CITY OF MEMPHIS SHALL HAVE INGRESS/EGRESS RIGHTS TO USE PRIVATE DRIVES AND YARDS FOR THE PURPOSE OF MAINTAINING ALL PUBLIC SEWER LINES AND SHALL BEAR NO RESPONSIBILITY FOR THE MAINTENANCE OF SAID PRIVATE DRIVES, FENCES AND YARDS.
- 11. NO TREES, SHRUBS, PERMANENT STRUCTURES, OR OTHER UTILITIES (EXCEPT FOR CROSSINGS) WILL BE ALLOWED WITHIN SANITARY SEWER EASEMENT. NO OTHER UTILITIES OR SERVICES MAY OCCUPY SANITARY SEWER EASEMENTS IN PRIVATE DRIVES AND YARDS EXCEPT FOR CROSSINGS.
- 12. ALL SANITARY SEWER MANHOLES IN REVERSE CROWN STREETS, ALLEYS, OR DRIVES (PUBLIC OR PRIVATE) SHALL BE PROVIDED WITH GASKETS AND PLUGS FOR PICK HOLES TO PREVENT DRAINAGE INFLOW INTO SEWER SYSTEM.
- 13. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND EFFECTIVE EROSION CONTROL AS NECESSARY TO PREVENT ANY SILTATION INTO EXISTING DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES.
- 14. TRACER WIRE SHALL BE INSTALLED ALONG THE LENGTH OF ALL SEWER PIPES, SERVICE CONNECTIONS, MANHOLES AND STUBS PER STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAIL (SST-17).

### DEMOLITION NOTES:

1.	THE CONTRACTOR SHALL REMOVE ALL UNDERGROUND UTILITIES AND ANY OTHER ITEMS IN ACCORDANCE WITH THE TDEC AND THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL STRICTLY FOLLOW ALL CITY, STATE, AND FEDERAL GUIDELINES FOR REMOVAL AND DISPOSAL OF THESE FACILITIES.	1.
2.	ALL BUILDING, CONCRETE, ASPHALT PAVEMENT, AND GRANULAR SUBBASE SHALL BE REMOVED FULL DEPTH PER THE DIRECTION OF THE GEOTECHNICAL ENGINEER. ALL SHALL BE DISPOSED IN ACCORDANCE WITH ALL CITY, STATE AND FEDERAL REGULATIONS.	3
3.	CONTRACTOR SHALL REMOVE & REPAIR PAVEMENT AS REQUIRED FOR UTILITY CONSTRUCTION INCLUDING BUT NOT LIMITED TO : IRRIGATION SLEEVES, SITE LIGHTNING CONDUITS, WATER LINES, SANITARY SEWER LINES, STORM DRAINAGE LINES, ETC. CONTRACTOR HAS AN OPTION TO BORE CONDUITS.	4
4.	PRIOR TO COMMENCING ANY UTILITY WORK, CONTRACTOR SHALL NOTIFY ANY SURROUNDING PROPERTY OWNERS WHO MAY EXPERIENCE A DISRUPTION IN SERVICE.	6
5.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING ANY EXISTING IRRIGATION SYSTEM TO ACCOMMODATE PARTS OF THAT EXISTING SYSTEM THAT ARE REMOVED, ABANDONED OR DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO MODIFY ANY EXISTING IRRIGATION SYSTEM TO ACCOMMODATE NEW AREAS OF LANDSCAPING. ANY IRRIGATION SLEEVES SHALL BE INSTALLED PRIOR TO PAVING AND BACKFILLED PROPERLY BY THE SITE CONTRACTOR.	7
6.	THE CONTRACTOR SHALL ENSURE ADEQUATE ACCESS IS PROVIDED DURING ALL PHASES OF CONSTRUCTION. COORDINATE WITH THE PROJECT MANAGER.	
7.	WHEN REMOVING UTILITIES, CONTRACTOR SHALL GROUT AND SEAL ANY STRUCTURES THAT ARE TO REMAIN PER LOCAL REGULATIONS.	
8.	UTILITIES SHOWN ARE LOCATED BY FIELD SURVEY AND RECORD DRAWINGS. ADDITIONAL UNDERGROUND UTILITIES WILL BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY INACTIVE STRUCTURE & ALERT ENGINEER OF ANY ACTIVE, UNMAPPED STRUCTURES.	8
9.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF UTILITY DEMOLITION & RELOCATION.	9
10.	CONTRACTOR SHALL NOT INTERRUPT DRAINAGE FROM ADJACENT PROPERTIES AND PUBLIC RIGHT-OF-WAYS.	10
11.	ALL PUMPS, MOTORS, VALVES ETC REMOVED SHALL BE RETURNED TO MEMPHIS WTCS DEPARTMENT. CONTACT JAMES GREENLEE AT 901-636-0237 FOR FURTHER DIRECTIONS.	

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1.	AT ALL CROSSINGS OF EXISTING UTILITIES, THE CONTRACTOR SHALL FIELD LOCATE BY POST HOLING OR OTHER APPROPRIATE METHODS, THE HORIZONTAL AND VERTICAL LOCATION ALL EXISTING UTILITIES.
2.	ALL SEWER TRENCHES SHALL BE PROPERLY BACKFIELD AT THE END OF EACH WORK DAY.
3.	ALL DISTURBED AREAS SHALL BE SEEDED (WITH A SEASONAL MIX) AND COVERED WITH STRAW AT THE END OF EACH WEEK (AT A MINIMUM) OR MORE FREQUENTLY, AS CONDITIONS DICTATE, IN ADDITION TO EROSION CONTROLS REFERENCED ON PLANS.
4.	ALL DISTURBED LAWN AREAS SHALL BE SODDED. MATCH EXISTING SOD TYPE.
5.	CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGES OF EXISTING UTILITIES, AND PUBLIC/PRIVATE

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		_	<sup>™</sup> AGNICULTURE <sup>™</sup> <sup>™</sup>	DIVISION OF ENGINEERING
			La rin the second	GENERAL NOTES
			OF TENNES	277 WINDSOR ROAD
			06/21/2024	MEMPHIS, TENNESSEE
	OR LIFT STATIC	)n impro'	VEMENTS	SURVEY BY: WES ASHWORTH, RLS DATE: 08/21 PROJECT NO:PN 280-21-002 DESIGN BY: BRAD DAVIS, PE DATE: 12/21 SCALE: NTS REVIEWED
ENGINEER	ABES ENGINEERING			DEPUTY CITY ENGINEER DATE CITY ENGINEER DATE

EROSION CONTROL NOTES:

CONSTRUCTION ENTRANCES (TO THE OFFICE OR LAY DOWN AREA, AND TO WORK AREAS ) TO BE A MINIMUM 6" DEPTH T.D.O.T. NO. 1 OR NO. 2 STONE.

INSTALL WATTLES OR SILT FENCE AS DICTATED ON THE EROSION CONTROL PLANS. SEE DETAILS FOR MORE INFORMATION.

. ALL STOCK PILE AREAS TO BE PROTECTED BY A COMBINATION OF WATTLES AND SILT FENCE.

INSTALL INLET PROTECTION DEVICES AT STORM INLETS PRIOR TO CONSTRUCTION. SEE PLANS FOR LOCATIONS.

ALL NEWLY CUT OR FILL AREAS LACKING ADEQUATE VEGETATION SHALL BE FERTILIZED, MULCHED, SEEDED, AND /OR SODDED TO EFFECTIVELY CONTROL EROSION.

A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH PROJECT SITE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SOIL EROSION CONTROL MEASURES AS NOTED ON THE PLANS AND AS REQUESTED BY THE OWNER DURING THE CONSTRUCTION, AND AS NECESSARY TO PREVENT THE SEDIMENT FROM LEAVING THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING THE REQUIREMENTS OF THE STATE OF TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK. ALL SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONTRACT SO AS TO PREVENT ANY SEDIMENTATION FROM WASHING OFF THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHTS-OF-WAY. SEDIMENT FENCE SHALL BE INSTALLED AS DIRECTED. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL MAINTENANCE ACTIVITIES FOR THE EROSION ELEMENTS AS REQUIRED BY THE STATE OF TENNESSEE DEPARTMENT OF WATER POLLUTION CONTROL.

. A COPY OF THE EROSION CONTROL PLAN MUST BE AVAILABLE ON SITE FOR THE DWPC INSPECTOR ON REQUEST.

EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT MUST BE REPLACED AT THE END OF THE WORK DAY OR PRIOR TO RAINFALL EVENTS.

10. ALL CONTROL MEASURES SHALL BE CHECKED AND STATE REQUIREMENTS FOR MAINTENANCE AND REPAIRS SHALL BE MADE AS NECESSARY. DURING PROLONGED RAINFALL, DAILY CHECKING AND REPAIRING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF INSPECTION CHECKS, MAINTENANCE, AND REPAIRS.

11. THIS PLAN HAS BEEN REVIEWED AND APPEARS TO BE ADEQUATE. IF SEWER PIPE INSTALLATION BY BORE DOES NOT PROVIDE FOR EFFECTIVE SEDIMENT CONTROL AND EROSION PROTECTION, ADDITIONAL MEASURES WILL BE REQUIRED.

12. IF PUMPING IS REQUIRED, SEDIMENT LADEN WATER IS NOT TO BE DISCHARGED INTO THE STORM DRAIN OR THE STREET.



TY BENCHMARK:	
1061 IS LOCATED AT 575 WINDSOR ROAD. 40' S OF CENTERLINE WINDSOR OAD, 33' W. OF CENTERLINE GRAVEL D/WAY TO TVA STATION "FREEPORT," 1' E. OF A H/WALL AND 33' N. OF A H/WALL. ELEVATION : 300.89	

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l inquiries regarding this drawing(s) shall be made to ABES ENGINEE



ENGINEER: ABES ENGINEERING







### TRAFFIC CONTROL NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE APPROPRIATE TRAFFIC CONTROL DEVICES IN ACCORDING WITH THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- 2. CONTRACTOR SHALL BE REQUIRED TO NOTIFY THE CITY OF MEMPHIS A MINIMUM OF 24 HOURS PRIOR TO COMMENCING CONSTRUCTION OR IMPLEMENTING A TRAFFIC CONTROL PLAN. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS.
- 3. ACCESS TO ADJACENT PROPERTIES MUST BE MAINTAINED AT ALL TIMES.
- 4. SIDE STREETS, DRIVEWAY ACCESS, AND SAFE PEDESTRIAN WAYS SHALL BE MAINTAINED AT ALL TIMES.
- 5. THE CONTRACTOR SHALL BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THE RIGHT-OF-WAY OR WITH TEN (10) FEET OF THE EDGE OF PAVEMENT WHICHEVER IS LESS, WHEN THE LANE IS OPEN TO TRAFFIC, UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIER INSTALLED FOR OTHER PURPOSES. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO BE PARKED WITHIN THE RIGHT-OF-WAY OR WITHIN THIRTY (30 FT) OF AN OPEN TRAFFIC LANE WHICHEVER IS LESS, AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE.
- 6. CONTRACTOR SHALL USE PLASTIC DRUMS WITH TYPE "C" WARNING LIGHTS TO SEPARATE TRAFFIC FROM THE CONSTRUCTION AREA.
- 7. DRUMS WITH TYPE "C" WARNING LIGHTS SHALL DELINEATE THE EDGE OF PAVEMENT THROUGH THE ENTIRE CONSTRUCTION AREA. IF THE DRUMS STAY OVERNIGHT, TYPE "A" WARNING LIGHTS ARE REQUIRED.
- 8. CONTRACTOR SHALL COVER ALL EXISTING SIGNS THAT CONFLICT WITH TRAFFIC CONTROL PLAN SIGNS OR DEVICES DURING CONSTRUCTION AND THEY SHALL REMAIN DURING THAT CONSTRUCTION AND UNTIL SUCH TIME THAT NO CONFLICT EXIST.

TRAFFIC CONTROL LEGEND		
SYMBOL	ITEM	
Z <i>ZZZ</i>	WORK ZONE	
3	FLEXIBLE DRUMS (CHANNELIZING)	
þ	SIGN (CONSTRUCTION)	
$\rightarrow$	TRAFFIC FLOW	
	FLAGGER	

### TRAFFIC CONTROL PLAN

9.	CONTRACTOR SHALL INSTALL TEMPORARY "NO PARKING SIGNS" AS REQUIRED WITHIN THE TRAFFIC CONTROL AREA.
10.	TWO-WAY TRAFFIC SHALL BE MAINTAINED ON STREETS AT ALL TIMES.
11.	ONLY ONE PHASE OF THE TRAFFIC CONTROL SHALL BE ACTIVE AT ANY ONE TIME.
12.	ALL TEMPORARY OR PERMANENT TRAVELED SURFACES SHALL BE INSPECTED DAILY BY THE INSPECTOR (INCLUDING WEEKENDS) AND NECESSARY PATCHING OR REFINISHING PERFORMED.
13.	CHANNELIZING DEVICES SHALL BE REMOVED TO THE EDGE OF PAVEMENT AT THE END OF EACH WORK DAY. NO CLOSURE SHALL BE IN EFFECT FROM 4:00 P.M UNTIL 9:00 A.M.
14.	WORK WITHIN THE ROADWAY SHALL BE CONDUCTED BETWEEN 9:00 A.M AND 4:00 P.M AND THE ROADWAY SHALL BE COMPLETELY OPEN TO TRAFFIC AT OTHER TIMES AND ALL INAPPROPRIATE SIGN SHALL BE COVERED OR REMOVED.
15.	CONTRACTOR SHALL CONTACT ALL APPROPRIATE AGENCIES BEFORE CLOSING ANY ROADWAYS.
16.	AT NO TIME SHALL A ONE WAY SECTION BE LEFT OPEN UNATTENDED. WHERE TWO FLAGGERS ARE REQUIRED AND IN CIRCUMSTANCES WHERE ONLY ONE LANE OF TRAFFIC IS OPEN AND THERE IS NO CLEAR LINE OF SIGHT FROM ONE END OF CONSTRUCTION AREA TO THE OTHER, THE CONTRACTOR SHALL PROVIDE RADIO COMMUNICATION OR OTHER APPROPRIATE MEANS OF ESTABLISHING CONTROL OF TRAFFIC.
17.	ANY TIME FLAGGER IS NOT PRESENT TO CONTROL TRAFFIC, TWO TRAFFIC LANES MUST BE OPEN TO MAINTAIN TWO-WAY TRAFFIC AND ALL INAPPROPRIATE SIGNS SHALL BE COVERED OR REMOVED.
18.	ALL FLAGGERS SHALL BE EQUIPPED WITH A STOP/SLOW PADDLE.
19.	IF CONSTRUCTION ACTIVITIES REQUIRE OVER-NIGHT CLOSURE OF ANY PORTION OF THE ROADWAY, A REVISED TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY.

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DEVELOPER: SARP 10 ENGINEER: ABES ENGINEERING



NOTE:

FLEXIBLE DRUMS AND TYPE III BARRICADES AS SHOWN FOR EASTBOUND AND WESTBOUND TRAFFIC SHALL NOT BE INSTALLED CONCURRENTLY.

DRUMS AND BARRICADE INSTALLATION SHALL BE IN CONJUNCTION WITH THE PORTION OF ROADWAY BEING DISRUPTED WITH PIPELINE INSTALLATION.

THE TRAFFIC CONTROL SHOWN IS THE MINIMUM REQUIRED. THE CONTRACTOR SHALL INCLUDE THE ANY ADDITIONAL TRAFFIC CONTROL NECESSARY FOR CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ADDITIONAL TRAFFIC CONTROL MEASURES SHALL BE APPROVED BY THE CITY OF MEMPHIS AND ENGINEER.





### **INDEX OF DRAWINGS:**

- COVER SHEET G0.0
- GENERAL NOTES G1.0
- DEMOLITION AND SITE PLAN C1.0
- EXISTING LS PLAN AND SECTION C1.1
- PROPOSED LS PLAN AND SECTION C1.2
- C1.3 LS WORKING PLATFORM
- E0.1 ELECTRICAL LEGEND AND NOTES
- E1.0 ELECTRICAL SITE PLAN AND RISER DIAGRAM



ABES ENGINEERING, INC 2500 MT. MORIAH RD. SUITE H229 MEMPHIS, TN 38115 901 340-3011

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				DESIGN BY: BRAD DAVIS, PE DATE: 12/21	SCALE: SHOWN
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DEVELOPE	R: SARP 10				
ENGINEER	ABES ENGINEERING			DEPUTY CITY ENGINEER DATE CITY EN	GINEER DATE

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EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORK DAY, BUT MUST BE REPLACED AT THE END OF THE WORK DAY OR PRIOR TO RAINFALL EVENTS.

0. ALL CONTROL MEASURES SHALL BE CHECKED AND STATE REQUIREMENTS FOR MAINTENANCE AND REPAIRS SHALL BE MADE AS NECESSARY. DURING PROLONGED RAINFALL, DAILY CHECKING AND REPAIRING IS NECESSARY. THE PERMITTEE SHALL MAINTAIN RECORDS OF INSPECTION CHECKS, MAINTENANCE, AND REPAIRS.

THIS PLAN HAS BEEN REVIEWED AND APPEARS TO BE ADEQUATE. IF SEWER PIPE INSTALLATION BY BORE DOES NOT PROVIDE FOR EFFECTIVE SEDIMENT CONTROL AND EROSION PROTECTION, ADDITIONAL MEASURES WILL BE REQUIRED.

12. IF PUMPING IS REQUIRED, SEDIMENT LADEN WATER IS NOT TO BE DISCHARGED INTO THE STORM DRAIN OR THE STREET.



EXISTING FORCEMAIN: CONTRACTOR TO LOCATE AND VERIFY EXISTING FORCE MAIN ROUTING AT START OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY ISSUES

### SPECIAL FLOOD HAZARD STATEMENT:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS NOT IN A SPECIAL FLOOD HAZARD AREA (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. THE SUBJECT PROPERTY IS SHOWN IN A FEMA ZONE X (NO SHADING ON FEMA MAP): AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0560F WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2007.

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DEMOLITION

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REMOVE LIFT STATION

MINOR CONTOURS

EXISTING SANITARY SEWER

CONCRETE

ASPHALT

BUILDING

FENCE

## PROJECT BENCHMARKS

### CITY BENCHMARK:

#675 LOCATED ON PRESIDENTS ISLAND AT JACK CARLEY & WEST TRIGG AVE IN AN ISLAND, 11' E. OF E. CURB OF JACK CARLEY, 2' W. OF P/POLE #139332, 10' W. OF W. RAIL OF R.R. ELEVATION : 247.85

### <u>SITE TBM:</u>

TEMPORARY BENCHMARK (T.B.M.) - TOP OF RETAINING WALL SOUTH OF SOUTHEAST CORNER OF THE WESTERN MOST BUILDING. ELEVATION=229.24 (NAVD88)

NOTE: BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SITE DATUM WITH ALL SITE TBMS AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

	RE\
DATE	DESC
J. CARI	_EY LIF
DEVELOP	ER: SARP 1
ENGINEER	ABES EN

FITTINGS AND

WORKING -

C1.30

PIPING









PLAN VIEW

## NOTES:

- IF THE END OF DISCHARGE LINE IS BELOW THE ELEVATION OF THE DISCHARGE LINE AT THE POINT OF LEAVING THE WET WELL, A PRIMING LOCK LOOP MAY BE REQUIRED.
- 2. PROVIDE 45° SLOPE IN WET WELL AS REQUIRED.
- 3. VOLUME BETWEEN L.L ON AND PUMPS OFF SHOULD BE EQUAL TO, OR GREATER THAN, THE PUMPING RATE PER MINUTE.
- 4. U.S. CUSTOMARY CONDUIT COUPLING SIZES SHOWN. ALTERNATE METRIC SIZES ARE AVAILABLE. CONSULT FACTORY.
- 5. ALL PIPES TO BE DIP.

VISIONS RIPTIONS	APPROVED	LEY J.	SEWER BASIN: PI-01	C1.2
			SHEET 1 OF 1	
		AGHCULTURE 2 5		
		VI Konte oute	PROPOSED LS PLAN AND SEC	TION
		OF TENNIS	482 JACK CARLEY ROAD	
	-	06/21/2024	MEMPHIS, TENNESSEE	
		VEMENTS	SURVEY BY: WES ASHWORTH, RLS DATE: 08/21 PROJECT NO DESIGN BY: BRAD DAVIS, PE DATE: 12/21 SCALE: NTS REVIEWED	D:280-21-001
GINEERING			DEPUTY CITY ENGINEER DATE CITY ENGINEER	



inquiries regarding this drawing(s) shall be made to ABES ENGINE

De	esign Specifications		
Deck Height: <u>4'-6"</u>	Clear Height: <u>3'-9"</u>		
Seismic Design Category: <u>D</u>	Type of Use: Equipment Platform		
Decking Layer 1: <u>1" x 1/8" Bar Gra</u> Decking Layer 3: N/A	ting Decking Layer 2: <u>N/A</u> Deck Supplied By: <u>Kab</u> Tech, Inc.		
Guardrail: Number of Rails Req'd:	2 Rail Linear Feet of Guardrail: <u>31' L/F</u>		
Floor I aad			
Maximum Load: <u>3,173 lb.</u>	Base Plate: <u>8" x 8" x 1/2"</u> Floor Load: <u>50 p.s.i.</u>		
Stair:			
Stair: <u>ST-1</u> Quantity: <u>1</u> Co Stair Width: 3'-0"Stair Height: 4'	ode: <u>IBC</u> Type of Treads: <u>11" Bar Grating</u> -6" No. of Treads: 7 Horizontal Run: 6'-6 1/2	2"	
Riser Height: <u>6 3/4</u> Guardra	il: <u>3 Rail</u> Type of Stair: <u>Open Tread &amp; Riser</u>		
Paint:			
Beams: Galvanized	Stairs: Galvanized		
Guardrail: <u>Galvanized</u> Decking: <u>Galvanized</u>	Stair Guardrail: <u>Galvanized</u> B-Deck: <u>N/A</u>		
Note:			
1. The Customer is responsible to	o assure that the requirements of local building codes are r	net.	
<ol> <li>Existing Floor Slab or Footing 1</li> <li>The Customer is responsible to against actual Job Site Condition</li> </ol>	oundation design is by Others.Column Loads are show ab assure that Drawing Dimensions are verified	ove.	
4. The Customer is responsible to	o obtain Permits, if required		
Approval of this drawing, signed by interpretation of all other docur	a Customer's Authorized Representative, shall constitute a nents relating to the subject matter with all enclosed drawi	i final	
Final Fabrication canno	ot proceed until ALL signed Drawings are received		
Approval is based	by Kab Tech, Inc. on acceptance of Dimensions and Height Only.		
Design Component	s and Spacing of Structural Members may vary.		
Drawings: □ Approved □	Approved as Noted		
Approved By:	Date:		
Company: Job Site Supervisor:	Position: Phone:		
_ift Equipment Supplied By: Installation of Material By:			
lote: The above signature has revi	ewed and approves these Drawings		
Field Checked By: D Kab Te	ch Others Name		
Company:	Date:		
	Frector's Notes:		
1. Review Drawings carefully b	before start of installation.		
2. Briding must be completely 3. All Structural Bolts must be	installed before placing any construction loads on b tightened to a minimum of 80 ft. lb. of torque.	ar joist.	
<ol> <li>Anchor Bolts must have a N</li> <li>Columns &amp; Framing must be</li> </ol>	linimum Embedment of 2 1/4".		
<ol><li>Remove all trash from Grou</li></ol>	nd Floor and Deck Surface.		
<u></u>	Erector's Note		
Any Modifica Approved	ations to this structure Must be by Kab Tech, Inc. in writing.		
	General Notes:		
This Drawing is loaned with the herein contained are the prop	e expressed agreement that the Drawing & Informater of Kab Tech, Inc., & will not be reproduced, cop	ation pied or	
otherwise disposed of, directly or in part to assist inmaking, c	v or indirectly. And this Drawing will not be used in v or furnishing any information for the making of drawing	vhole ings,	
print or other reproductions he except upon written permission	ereof, or for the making of apparatus of parts thereo n of Kab Tech, Inc., specific to each case.	f,	
Approval	witho Quotomode Authorized D		
Approval of this Drawing b constitute a final interpetation	of all other Documents relating to the subject matter	er of	
foregoing agreement.	יסי נחוג שרמשוחם be construed as acceptance of	uie	
	REVISIONS		
N.	Description Date Revised B	/ Checked By	
	Took los		
nai	J TECH, INC.		
Drawn Bv: A.R.S.	Jack Carley		
cale: As Noted	Memphis, TN		
)ate: 7-5-2022	KABTech Corp.		
Checked By: FHB			
Quote: . Drawing	Number: . Sheet: <u>1</u> of	<u>1</u>	
		٦ (	
REVISIONS	NUMBEY J.		
DESCRIPTIONS AF	PPROVED	SEWER BASIN: PI-01	C1.3
		SHEET 1 OF 1 DIVISION OF ENGINEERING	
		LS WORKING PLATFORM	
+	107000 C		
++	UF TENNIN'		
	06/21/2024		·280_21 001
		DESIGN BY: BRAD DAVIS, PE DATE: 12/21 SCALE: NTS	.200-21-001
KLEY LIFT STATION		REVIEWED	
I EN. JARY IU			

ENGINEER: ABES ENGINEERING

DEPUTY CITY ENGINEER DATE CITY ENGINEER

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DATE

									ELECT	RICAL GI	ENERAL NOTES:	
-	S	YMBOL	DESCRIPTION						1. P E	PROVIDE	LABOR AND MATERIALS NECESSARY FO	DR A COMPLETE AN
-	(	<i>&gt;</i> −○	AREA LIGHT						2. N C 3. A	MATERIAL DF FEDEF ALL MATE	LS AND INSTALLATION SHALL COMPLY V RAL, STATE, AND LOCAL GOVERNING BC ERIALS AND EQUIPMENT SHALL BE LISTE RECOGNIZED TESTING LABORATORY	/ITH ALL CODES, LA DIES HAVING JURIS ED AND/OR LABELEI
	/	-#	WIRE IN CONI STRUCTURE.	DUIT RUN OVERHEAD - CONC	CEALED IN OR A	ABOVE CEILIN	IG OR EXPOSED ON	N	4. S L	SECURE A	AND PAY FOR ALL PERMITS, INSPECTION NECESSARY FOR THE PROPER EXECU	S, GOVERNMENTAI
-	,-	-+、	WIRE IN CONE	DUIT RUN CONCEALED BELO	W FLOOR, IN W	/ALL, OR BELC	DW GRADE.		5. F	EES ASS	SESSED BY MEMPHIS LIGHT, GAS, AND V VICE WILL BE PAID BY THE OWNER DIRE	VATER DIVISION IN ( CTLY TO MLGW.
			INDICATES GR	ROUNDING CONDUCTOR.					6. P C	PREPARE	AND SUBMIT TO GOVERNMENTAL AGE FICIALS, SHOP DRAWINGS AND/OR INST	NCIES, UTILITY COM ALLATION DETAILS
-		⊖=	DUPLEX RECE	EPTACLE, GROUND FAULT CI	RCUIT INTERR	UPTING TYPE			7. N T	NOTIFY THE	HE PROJECT MANAGER IN WRITING OF A ADEQUATE, UNSUITABLE, IN VIOLATION	ANY MATERIALS OR OF LAWS, ORDINAN
-	(	•	HARD CONNE	CTION TO EQUIPMENT.					8. N	REGULAT NEW ELEC PANELS, F	IONS OF THE AUTHORITIES HAVING JUR CTRICAL WORK OR MODIFICATIONS TO I PANELBOARDS, ETC, SHALL BE INSTALL	ISDICTION. EXISTING ELECTRIC ED AS INDICATED C
-	λ	O⁄		8					C E A		JCTION DOCUMENTS. CONTRACTOR . SH NT TO BE INSTALLED INDICATING ELEV AL OF THE ENGINEER PRIOR TO INSTALL	IALL SUBMIT SHOP ATIONS, AND ALL DI ATION. CODE REQU
			CONDUIT SEA	LING FITTING, 'EYSF' TYPE					9. C	FRONT OF	F ALL ELECTRICAL EQUIPMENT SHALL B	E MAINTAINED AT A TS, MAKE A SCHEDI
:	<u>ABBRE</u> AFF	EVIATIONS ABOVE FINI	SHED FLOOR						V V T	VITH THE VITH LOC THE CON	E PROJECT MANAGER TO VISIT THE SITE CAL CONDITIONS RELATING TO THE WOF TRACTOR OF THE OBLIGATIONS OF THE	, AND THOROUGHL RK. FAILURE TO DO CONTRACT.
	AFG C CL CO	ABOVE FINIS COUNTER H CENTERLINE CONDUIT ON	SHED GRADE EIGHT E ILY (EMPTY)						10. F T T T	PROVIDE	TEMPORARY POWER AND WIRING FOR RE PERIOD OF CONSTRUCTION AND SH PLETION OF CONSTRUCTION. ALL COST ARY POWER SHALL BE INCLUDED IN BID.	THE PERFORMANCI ALL REMOVE ALL TE S FOR ESTABLISHIN
	G HID IC MCB MLO MTD NC	GROUND HIGH INTEN INTERRUPT MAIN CIRCU MAIN LUGS MOUNTED NORMALLY	SITY DISCHARC ING CAPACITY IT BREAKER ONLY CLOSED						11. T S F E F C	THE EXIS DWNER'S DYSTEM ( PROJECT BID IS TO FOR THE COORDIN	TING ELECTRICAL SYSTEMS ARE TO REM EXISTING FUNCTIONS. SHOULD IT BECO DR PORTION OF A SYSTEM, APPROVAL II MANAGER AND SHALL BE ONLY FOR TH INCLUDE THE COST OF ANY TEMPORAR SHUTDOWN. EXISTING ELECTRICAL WO ATED TO ALLOW MINIMUM DOWN-TIME (	IAIN IN SERVICE TO DME NECESSARY TO N WRITING MUST BI IE PERIOD AND TIMI Y WIRING AND PRE RK TO BE DEMOLISI DF THE STATION.
	N.T.S NO OC	NOT TO SCA NORMALLY ON CENTER	ALE OPEN						12. M C V	MATERIAL CLEANED WITH THE	LS AND EQUIPMENT SHALL BE ERECTED , ADJUSTED, TESTED, CONDITIONED, AN E MANUFACTURER'S DIRECTIONS AND R	, INSTALLED, TOOLI ID PLACED IN SERV ECOMMENDATIONS
	UG UON WR	UNDERGRO UNLESS OTI WEATHER F	UND HERWISE NOTE RESISTANT	Đ					13. C V V C F	CUTTING, WORK BE WORK MA CUT, EXC PENETRA	DRILLING, AND PATCHING OF MASONR CLONGING TO THE SITE SHALL BE DONE AY BE PROPERLY INSTALLED. UNDER NO EPT AT THE DIRECTION OF THE ENGINE TIONS SHALL BE SEALED WITH APPROVI	Y, DRYWALL, CONCI BY THIS CONTRAC CONDITIONS MAY ER OR THEIR REPR ED MATERIAL.
<b>В1</b> N.T.S	6.	ELECTF	RICAL LEO	GEND					14. E C A	EQUIPMEI CUTS, DIA AND REVI	NT SUBMMITTALS SHALL INCLUDE MANU AGRAMS, AND OTHER SUCH DESCRIPTIV EW THE EQUIPMENT.	JFACTURER'S NAME 'E DATA AS MAY BE
	LI	IGHT POLE (S		5					15. F C A D F	PROVIDE Complet AS-Built Devices, Power D	"AS-BUILT" DOCUMENTATION AND HARE "ION OF THE PROJECT AND SUBMIT TO T DRAWINGS SHALL INDICATE EXACT CIR CEILING FIXTURES, AND RACEWAY FOF ISTRIBUTION SYSTEMS AS INSTALLED.	COPY REPRODUC THE ARCHITECT ANI CUIT NUMBERS, LO LIGHTING, TELECC
	0		SHEET E0.1)						16. N L	MATERIAL JNLESS S	., EQUIPMENT, WIRING DEVICES, ETC. S SPECIFICALLY INDICATED AS EXISTING T	HALL BE NEW AND ( O BE REUSED ON D
									17. E II N B	EXCEPT A NSTALLA METHODS BUILDING	AS NOTED OTHERWISE, ALL WORK REQU TION AS SHOWN ON DRAWINGS SHALL I S, EQUIPMENT, AND MATERIALS AND SH STANDARDS.	JIRED FOR THE ELE NCLUDE ALL LABOF ALL BE IN STRICT C
	S	TUB CONDUI	Г UP 6" MIN ——			BA			18. F E	PROVIDE	A COMPLETE METAL RACEWAY SYSTEN CAL WIRING SYSTEMS TO BE INSTALLED	1, FITTINGS AND EN FOR THE PROJECT.
	C			2"					19. N S	MINIMUM STEEL WI	CONDUIT SIZE SHALL BE 3/4 INCH. ALL ( TH APPROPRIATE FITTINGS AND CAST E	CONDUIT SHALL BE OXES WHERE REQ
	A R M	ECOMMENDE	S (AS ED BY POLE ER)				Î		20. P C	PROVIDE CIRCUITS	COPPER THHN/THWN CONDUCTORS NC	)T LESS THAN #12 A
	E						 30" 		21. P C L	PROVIDE DF THE P LOCATION	A NEW TYPEWRITTEN PANEL DIRECTOF ROJECT. EACH CIRCUIT BREAKER SHAL N.	RY FOR EACH PANE L BE LABELED TO IE
	F						24" MIN		22. F F II V V F	PERFORM FOR THE AND/OR S NDICATE WILL BE N AND DEM WILL NOT PREMISES	ALL WORK OF A DEMOLITION NATURE FULL AND COMPLETE EXECUTION OF TH SPECIFIED OR NOT, EXACT EXTENT OF D D BY DRAWINGS. DETERMINE THE NATU NECESSARY BY COMPARING THE CONTH OLITION DRAWINGS TO EXISTING COND BE REUSED SHALL BE TURNED OVER T S AS DETERMINED BY THE PROJECT MAI	THAT MAY BE REQU IE WORK, WHETHEI EMOLITION WILL NO IRE AND EXTENT OF RACT DOCUMENTS ' ITIONS. ELECTRICA O THE OWNER OR I NAGER.
	Ρ	°VC-40				— 3"MIN ↓3"	60"		23. A N A	ANY EXIS NEW WOF AND NEW ARCHITEC	TING ELECTRICAL MATERIAL AND EQUIF RK SHALL BE REMOVED OR RELOCATED LOCATION OF EQUIPMENT WITH THE PI CT/ENGINEER PRIOR TO WORK.	PMENT WHICH INTE BY THE CONTRAC ROJECT MANAGER /
	(5 (4 6"	5) #3 VERTICA 4) HOOP AT 12 1 O.C ABOVE (	L BASE, ——— L" O.C. OR GRADE		← 24" →	•	<b>I</b>					
C1	6.	POLE B	ASE DET.	AIL				-	<b>D2</b> N.T.S.	E	LECTRICAL GENERA	L NOTES
					SITE L	UMINA	IRE SCHI	EDULE				
	MARK	DESC		MANUFACTURER / MODEL	LUMEN	ELECTRICAL	CONTROL	MOUNTIN	G		REMARKS	
	A	LED AREA LI	JMINAIRE	DSX1-LED-P4-30K-70CRI- T3M-MVOLT-RPA-DDBXD	15383	124W	TIMER SWITCH	20' ROUND STR STEEL POLE	AIGHT			

NOTE:

MANUFACTURER'S TRADE NAMES OR CATALOG NUMBERS USED IN THIS SCHEDULE DENOTE TYPE, SIZE, QUALITY, AND DESIGN OF EQUIPMENT REQUIRED. THIS CONTRACTOR IS FREE TO OFFER SUBSTITUTIONS FOR CONSIDERATION AS EQUAL; HOWEVER, HE SHALL BE PREPARED TO FURNISH SPECIFIED MATERIALS WHERE SUBSTITUTIONS ARE NOT APPROVED. WHEN SUBSTITUTIONS REQUESTS ARE PROVIDED TO THE ENGINEER FOR APPROVAL, THE CONTRACTOR SHALL PROVIDE PHOTOMETRIC CALCULATIONS, FOR EACH SPACE, TO THE ENGINEER FOR REVIEW. THE CALCULATIONS SHALL BE PERFORMED WITH VISUAL 2016 LIGHTING SOFTWARE. THE ELECTRONIC VISUAL FILE SHALL BE SUBMITTED WITH THE PROPOSED LIGHTING FIXTURE DATA SHEETS.

COMPLY WITH ALL CODES, LAWS, AND ORDINANCES ERNING BODIES HAVING JURISDICTION. L BE LISTED AND/OR LABELED BY U.L., ETL, CSA, OR

NSPECTIONS, GOVERNMENTAL FEES, TAXES AND PER EXECUTION AND COMPLETION OF ALL

GAS, AND WATER DIVISION IN CONNECTION WITH THE WNER DIRECTLY TO MLGW.

INTAL AGENCIES, UTILITY COMPANIES, AND LOCAL ND/OR INSTALLATION DETAILS WHICH ARE REQUIRED 27. OVAL.

RITING OF ANY MATERIALS OR APPARATUS BELIEVED /IOLATION OF LAWS, ORDINANCES, RULES, OR AVING JURISDICTION.

TIONS TO EXISTING ELECTRICAL DISTRIBUTION E INSTALLED AS INDICATED ON THE ELECTRICAL ACTOR . SHALL SUBMIT SHOP DRAWINGS OF ALL TING ELEVATIONS, AND ALL DIMENSIONS FOR TO INSTALLATION. CODE REQUIRED CLEARANCES IN SHALL BE MAINTAINED AT ALL TIMES.

DOCUMENTS, MAKE A SCHEDULED ARRANGEMENT THE SITE, AND THOROUGHLY BECOME FAMILIAR THE WORK. FAILURE TO DO SO WILL NOT RELIEVE NS OF THE CONTRACT.

IRING FOR THE PERFORMANCE OF ALL TRADES, FOR ON AND SHALL REMOVE ALL TEMPORARY WIRING AT . ALL COSTS FOR ESTABLISHING AND REMOVING DED IN BID.

ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE JLD IT BECOME NECESSARY TO SHUT-DOWN ANY PROVAL IN WRITING MUST BE OBTAINED FROM THE NLY FOR THE PERIOD AND TIME AGREED UPON. THE TEMPORARY WIRING AND PREMIUM TIME REQUIRED TRICAL WORK TO BE DEMOLISHED SHALL BE OWN-TIME OF THE STATION.

E ERECTED, INSTALLED, TOOLED, CONNECTED, TIONED, AND PLACED IN SERVICE IN ACCORDANCE ONS AND RECOMMENDATIONS.

F MASONRY, DRYWALL, CONCRETE, STEEL, OR IRON L BE DONE BY THIS CONTRACTOR IN ORDER THAT . UNDER NO CONDITIONS MAY STRUCTURAL WORK BE HE ENGINEER OR THEIR REPRESENTATIVE. ALL H APPROVED MATERIAL.

LUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY

AND HARD COPY REPRODUCIBLE DRAWINGS AT THE UBMIT TO THE ARCHITECT AND THE ENGINEER. EXACT CIRCUIT NUMBERS, LOCATIONS OF ALL CEWAY FOR LIGHTING, TELECOMMUNICATIONS AND STALLED.

CES, ETC. SHALL BE NEW AND OF COMMERCIAL GRADE EXISTING TO BE REUSED ON DRAWINGS.

VORK REQUIRED FOR THE ELECTRICAL NGS SHALL INCLUDE ALL LABOR, INSTALLATION LS AND SHALL BE IN STRICT COMPLIANCE WITH ALL

AY SYSTEM, FITTINGS AND ENCLOSURES FOR ALL INSTALLED FOR THE PROJECT.

NCH. ALL CONDUIT SHALL BE GALVANIZED RIGID ND CAST BOXES WHERE REQUIRED

JCTORS NOT LESS THAN #12 AWG FOR POWER

DIRECTORY FOR EACH PANEL AT THE COMPLETION AKER SHALL BE LABELED TO IDENTIFY LOAD TYPE AND

N NATURE THAT MAY BE REQUIRED OR NECESSARY ITION OF THE WORK, WHETHER EXPLICITLY SHOWN TENT OF DEMOLITION WILL NOT BE FULLY THE NATURE AND EXTENT OF DEMOLITION THAT THE CONTRACT DOCUMENTS WITH ARCHITECTURAL TING CONDITIONS. ELECTRICAL EQUIPMENT WHICH ED OVER TO THE OWNER OR REMOVED FROM THE ROJECT MANAGER.

AND EQUIPMENT WHICH INTERFERES WITH THE RELOCATED BY THE CONTRACTOR. VERIFY REMOVAL VITH THE PROJECT MANAGER AND THE

ESSARY FOR A COMPLETE AND FULLY OPERATIONAL 24. VERIFY CLEARANCES FOR ALL NEW OR EXISTING RELOCATED ELECTRICAL WORK BEFORE PROCEEDING WITH CONSTRUCTION. COORDINATE USAGE OF AVAILABLE SPACE WITH ALL TRADES. IN THE EVENT OF CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.

> 25. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS. WHERE MORE STRINGENT REQUIREMENTS THAN THOSE DESCRIBED HEREIN OR AS SET FORTH UNDER CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION, THOSE GREATER REQUIREMENTS SHALL BE ADHERED TO.

> 26. EXISTING CONDITIONS OF ALL EXISTING BUILDING EQUIPMENT, DEVICES, FIXTURES, AND SYSTEMS THAT REQUIRE REWIRING, REUSE, RELOCATION, OR REFURBISHING AS PER DRAWINGS AND SPECIFICATIONS SHALL BE FIELD VERIFIED BY THE E.C. PRIOR TO COMMENCEMENT OF ANY WORK TO BE COMPLETELY OPERATIONAL. E.C. SHALL SUBMIT A WRITTEN STATEMENT AND ITEMIZED LISTING OF ALL EXISTING CONDITIONS OF THE FOLLOWING, ALTHOUGH NOT LIMITED TO THOSE LISTED:

THE WRITTEN STATEMENT SHALL BE SUBMITTED TO THE PROJECT MGR. PRIOR TO WORK. IN THE EVENT THAT THE CONTRACTOR COMMENCES WORK WITHOUT SUBMITTAL, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND COST TO MAINTAIN THE ABOVE IN GOOD WORKING ORDER AND CONDITION.

27.1.1 REFER TO CIVIL ENGINEERING DRAWINGS FOR EXACT LOCATIONS OF ALL NEW EQUIPMENT

> DATE 482 J. CARI DEVELOPER: SA ENGINEER: ABES

REVISIONS ESCRIPTIONS APPROVED	SEWER BASIN: PI01
AGRIC 21/2024	ELECTRICAL LEGEND AND NOTES
BERT NO. 107665	482 JACK CARLEY CAUSEWAY MEMPHIS, TENNESSEE
LEY LIFT STATION IMPROVEMENTS	SURVEY BY: WES ASHWORTH, RLS DATE: 08/21 PROJECT NO:PN 280-21-01 DESIGN BY: RICKY YANG 06/22 SCALE: N.T.S. REVIEWED
SENGINEERING	DEPUTY CIVIL ENGINEER DATE CITY ENGINEER DATE



EMOVE EXISTING	EXISTING 480 VOLT 3 PHASE SECONDARY SERVICE BY MEMPHIS LIGHT, GAS, AND WATER DIVISION (MLGW) TO REMAIN. PROVIDE ALL COORDINATION WITH MLGW AS REQUIRED TO DISCONNECT AND RE-CONNECT TO NEW SERVICE CONDUCTORS.
2, #8GR, 1 1/4" C <del>,</del> ID NEW EATHERHEAD	
	ROUNG STRAIGHT STEEL POLE FOR EQUIPMENT SUPPORT ONLY
' POLE, 8' EMBED	SEE EQUIPMENT ELEVATION ON DETAIL D1.
	MANUAL TRANSFER SWITCH
W 100A METER	PIN-AND-SLEEVE PUMP PLUG
	GRADE
2, #8GR, 1 1/4" C	
B" X 8' COPPER	
REVISIONS ESCRIPTIONS APPROVED	SEWER BASIN: PI01 E1.0
AGRICULT 2024	DIVISION OF ENGINEERING ELECTRICAL SITE PLAN & ONE LINE DIAGRAM 482 JACK CARLEY CAUSEWAY MEMPHIS, TENNESSEE
EY LIFT STATION IMPROVEMENTS	SURVEY BY: WES ASHWORTH, RLS DATE: 08/21PROJECT NO:PN 280-21-01DESIGN BY: RICKY YANG06/22SCALE: AS SHOWNREVIEWEDREVIEWEDControl of the second s
RP 10 S ENGINEERING	DEPUTY CIVIL ENGINEER DATE CITY ENGINEER DATE

## LIFT STATION REHAB DESIGN SARP10

# 5545 ELVIS PRESLEY BLVD

$\bigcirc$	SCHEDULE OF DRAWINGS
SH.	TITLE
1	COVER
2	EXISTING CONDITIONS & DEMOLITION PLAN
3	SITE PLAN
ЗA	FORCE MAIN PLAN & PROFILE
4	PUMP DETAILS
5	PUMP DETAILS
6	SEWER DETAILS
7	SITE DETAILS



## JANUARY, 2023 REVISED MAY, 2024





Pickering Firm, Inc. Facility Design • Civil Engineering • Surveying • Transportation • Natural / Water Resources 6363 Poplar Avenue, Suite 300 Memphis, TN 38119 901.726.0810

THE PLANS, IDEAS AND DESIGNS SHOWN ON THIS DRAWING ARE THE PROPERTY OF THE ENGINEER, DEVISED SOLELY FOR THIS CONTRACT. THIS PLAN SHALL NOT BE USED, WHOLE OR IN PART, FOR ANY PURPOSE FOR WHICH IT WAS NOT INTENDED WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.



## GENERAL NOTES:

- APPROPRIATE METHODS, THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES.
- ALL SEWER TRENCHES SHALL BE PROPERLY BACKFILLED OR COVERED AT THE END OF EACH WORK DAY.
- ALL DISTURBED LAWN AREAS SHALL BE SODDED. MATCH EXISTING SOD TYPE.
- PUBLIC/PRIVATE INFRASTRUCTURE AND PROPERTY.

## AT ALL CROSSINGS OF EXISTING UTILITIES, THE CONTRACTOR SHALL FIELD LOCATE BY

ALL DISTURBED AREAS SHALL BE SEEDED (WITH A SEASONAL MIX) AND COVERED WITH STRAW AT THE END OF EACH WEEK (AT A MINIMUM) OR MORE FREQUENTLY, AS CONDITIONS DICTATE, IN ADDITION TO EROSION CONTROLS REFERENCED ON PLANS.

CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES, AND

## **DEMOLITION NOTES:**

- THE CONTRACTOR SHALL REMOVE ALL UNDERGROUND UTILITIES AND ANY OTHER ITEMS IN ACCORDANCE WITH THE TDEC AND THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL STRICTLY FOLLOW ALL CITY, STATE, AND FEDERAL GUIDELINES FOR REMOVAL AND DISPOSAL OF THESE FACILITIES.
- ALL BUILDING, CONCRETE, ASPHALT PAVEMENT, AND GRANULAR SUBBASE SHALL BE REMOVED FULL DEPTH PER THE DIRECTION OF THE PROJECT ENGINEER AND SARP10 PROJECT MANAGER. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL CITY, STATE AND FEDERAL REGULATIONS.
- CONTRACTOR SHALL REMOVE & REPAIR PAVEMENT AS REQUIRED FOR UTILITY CONSTRUCTION INCLUDING BUT NOT LIMITED TO: IRRIGATION SLEEVES, SITE LIGHTING CONDUITS, WATER LINES, SANITARY SEWER LINES, STORM DRAINAGE LINES, ETC. CONTRACTOR HAS OPTION TO BORE CONDUITS.
- PRIOR TO COMMENCING ANY UTILITY WORK, CONTRACTOR SHALL NOTIFY ANY SURROUNDING PROPERTY OWNERS WHO MAY EXPERIENCE A DISRUPTION IN SERVICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING ANY EXISTING IRRIGATION SYSTEM TO ACCOMMODATE PARTS OF THAT EXISTING SYSTEM THAT ARE REMOVED, ABANDONED OR DAMAGED DURING CONSTRUCTION. THE CONTRACTOR SHALL ALSO MODIFY ANY EXISTING IRRIGATION SYSTEM TO ACCOMMODATE NEW AREAS OF LANDSCAPING. ANY IRRIGATION SLEEVES SHALL BE INSTALLED PRIOR TO PAVING AND BACKFILLED PROPERLY BY THE SITE CONTRACTOR.
- THE CONTRACTOR SHALL ENSURE ADEQUATE ACCESS IS PROVIDED DURING ALL PHASES OF CONSTRUCTION. COORDINATE WITH THE PROJECT MANAGER.
- WHEN REMOVING UTILITIES, CONTRACTOR SHALL GROUT AND SEAL ANY STRUCTURES THAT ARE TO REMAIN PER LOCAL REGULATIONS.
- UTILITIES SHOWN ARE LOCATED BY FIELD SURVEY AND RECORD DRAWINGS. ADDITIONAL UNDERGROUND UTILITIES WILL BE ENCOUNTERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY INACTIVE STRUCTURES & ALERT THE ENGINEER OF ANY ACTIVE, UNMAPPED STRUCTURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF UTILITY DEMOLITION & RELOCATION.
- D. CONTRACTOR SHALL NOT INTERRUPT DRAINAGE FROM ADJACENT PROPERTIES AND PUBLIC RIGHT-OF-WAYS.

DEVELOPER: SARP10



LEGEND					
	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND ELECTRIC		
$\bigcirc$	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC		
<b>•</b> -	EXISTING GUY POLE	UF0	EXISTING UNDERGROUND FIBER OPTIC		
MB	EXISTING MAILBOX	GG	EXISTING UNDERGROUND GAS LINE		
<u> </u>	EXISTING SIGN	ww	EXISTING WATER LINE		
GV	EXISTING GAS VALVE	D	EXISTING DRAIN LINE		
WV M	EXISTING WATER VALVE	UT UT UT	EXISTING TELEPHONE LINE		
GV	EXISTING WATER METER	OIL	EXISTING UNDERGROUND OIL LINE		
$\Box$	EXISTING ROW MARKER	FM	FORCE MAIN		
E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER		
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE		

### FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS IN A "ZONE X" NO SHADING (AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0415F WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2007.

## PROJECT BENCHMARKS

CITY BENCHMARK:

NOTE:

#310 IS LOCATED AT 6464-24 HIGHWAY 51 & MARY JANE AVENUE. CITY MONUMENT IS LOCATED AT THE NORTHWEST CORNER, AT BACK OF CURB, 3' WEST OF ER ON MARY JANE AVENUE SIDE. ELEVATION: 298.11

<u>SITE TBM #1</u> TOP RIM OF LIFT STATION AS SHOWN. ELEVATION: 283.15

NOTE: BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SITE DATUM WITH ALL SITE TBMS AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

### PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER:

INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS AND HIS CONTRACTORS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE ENGINEER IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION REGARDING THE UNDERGROUND UTILITIES AND STRUCTURES RELATED TO UNDERGROUND UTILITIES SHOWN HEREON.

NOTE: CONTRACTOR TO LOCATE AND VERIFY FORCE MAIN ROUTING AT START OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY ISSUES.

REMOVE ALL EXISTING PUMP STATION COMPONENTS ONCE NEW STATION IS OPERATIONAL AND ABANDON IN PLACE PER DETAIL ON SHEET 6.

CAP ALL PIPE CONNECTIONS WITH NON-SHRINK GROUT.





### FLOOD NOTE:

THIS IS TO CERTIFY THAT BY GRAPHIC DETERMINATION THE ABOVE PLATTED PROPERTY IS IN A "ZONE X" NO SHADING (AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD ACCORDING TO THE FEMA/FIRM MAP NUMBER 47157C0290F WITH AN EFFECTIVE DATE OF SEPTEMBER 28, 2007.

### PROJECT BENCHMARKS

### **<u>CITY BENCHMARK:</u>**

#310 IS LOCATED AT 6464-24 HIGHWAY 51 & MARY JANE AVENUE. CITY MONUMENT IS LOCATED AT THE NORTHWEST CORNER, AT BACK OF CURB, 3' WEST OF ER ON MARY JANE AVENUE SIDE. ELEVATION: 298.11

### <u>SITE TBM #1</u>

TOP RIM ÖF LIFT STATION AS SHOWN. ELEVATION: 283.15

NOTE: BEFORE THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE SITE DATUM WITH ALL SITE TBMS AND IMMEDIATELY REPORT IN WRITING ANY DISCREPANCIES TO THE ENGINEER.

PICKERING FIRM INCORPORATED UNDERGROUND UTILITIES DISCLAIMER:

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### GENERAL NOTES:

- AT ALL CROSSINGS OF EXISTING UTILITIES, THE CONTRACTOR SHALL FIELD LOCATE BY POST HOLING OR OTHER APPROPRIATE METHODS, THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES.
- 2. ALL SEWER TRENCHES SHALL BE PROPERLY BACKFILLED AT THE END OF EACH WORK DAY.
- ALL DISTURBED AREAS SHALL BE SEEDED (WITH A SEASONAL MIX) AND COVERED WITH STRAW AT THE END OF EACH WEEK (AT A MINIMUM) OR MORE FREQUENTLY, AS CONDITIONS DICTATE, IN ADDITION TO EROSION CONTROLS REFERENCED ON PLANS.
- ALL DISTURBED LAWN AREAS SHALL BE SODDED. MATCH EXISTING SOD TYPE.
- CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES, AND PUBLIC/PRIVATE INFRASTRUCTURE AND PROPERTY.



ITEM NO.	DESC
LIFT	STA
DEVELO	OPER: 2

	LEGEND
SF	SILT FENCE BARRIER
	STRAW WATTLE



SEE SHEET 7 FOR EROSION CONTROL DETAILS.

	LEGEN	<u>1D</u>	
	EXISTING FIRE HYDRANT		EXISTING UNDERGROUND ELECTRIC
	EXISTING POWER POLE	— — — — OHE	EXISTING OVERHEAD ELECTRIC
Đ-	EXISTING GUY POLE	UFO	EXISTING UNDERGROUND FIBER OPTIC
ШMВ	EXISTING MAILBOX	GG	EXISTING UNDERGROUND GAS LINE
<u> </u>	EXISTING SIGN	w	EXISTING WATER LINE
GV	EXISTING GAS VALVE	D	EXISTING DRAIN LINE
WV M	EXISTING WATER VALVE	UT	EXISTING TELEPHONE LINE
GV	EXISTING WATER METER	OIL	EXISTING UNDERGROUND OIL LINE
·	EXISTING ROW MARKER	FM	FORCE MAIN
E	EXISTING ELECTRIC TRANSFORMER	SS	SANITARY SEWER
	EXISTING TELEPHONE PEDESTAL	S	SEWER MANHOLE





![](_page_20_Figure_0.jpeg)

DESCRIPTION	
"A" TOP OF DRYWELL	284.00
"B" INVERT INCOMING PIPE	264.00 (MAX)
"C" HIGH ALARM/LAG PUMP ON	262.00
"D" PUMP "ON"	261.00
"E" PUMP OFF	259.00
"F" BOTTOM	257.00
"G" WETWELL DIA	5.0'
"H" NON-CLOG SUBMER. PUMPS	10.2 HP (2 REQ'D)

PUMP MODEL: WILO EMU FA10.51E; FK17.1-4/16K-Ex 230 VAC, 3-PHASE 275 GPM, 40' TDH /1\

![](_page_20_Picture_5.jpeg)

- CLEAN AND COAT WETWELL WITH A 2-COAT EPOXY-MODIFIED-MORTAR LINING AND HYBRID EPOXY COATING PER MANUFACTURES RECOMMENDATIONS. COVER EXPOSED REBAR WITH COMPATIBLE PRIMER AND MORTAR AND SEAL ANY LEAKS WITH HYDRAULIC CEMENT.

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![](_page_21_Figure_0.jpeg)

ENGINEER: PICKERING FIRM, INC.

DEPUTY CITY ENGINEER DATE CITY ENGINEER

DATE

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EXISTING D. R.F.A. S.E. NOTE Z.Z. PRINE CAN B' (AND) MAR ADDREASE DRUGHE DRUGHE DRUGHE DRUGHE		
EXISTING GLRPAD SEL VOIE 2 PORE COAT 8' (MIN) VINE ACORDATE 3 CRUSH 'CRUSH 'CRUSH		
EXSTING SUPPA SEE MATE PHILE CAR SUPPART B AGREATE B COUS- 'CAUS- 'CAUS-		
EXSTING SARIAG SEE NOL POWE COM B'NOM VAL B'NOMESALE 3 CRUSH 'CRUSH 'CRUSH		
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EXISTING SURFAC SEE NOTE PRIME COAT BRIME COAT CRUSH CRUSH CRUSH 2		
EXSTING SURFAC SEE VOIE PRIME COAT 3° (MIN) HINE ACCRECATE B CRUSH CRUSH 2		
EXISTING SUBPAC SEE WOTE PRIME COAT B' (MIN) MAR ASSARES E CRUSH CRUSH		
EXISTING SUPPAGE SEE NOTE PRIVE COAT 8° (WIN), MINE ACCREATE B CRUSH CRUSH 2		
EXISTING SURFAC SEE NOTE PRIME COAT & (MIN) MINE AGGREGATE B CRUSH CRUSHE		
EXISTING SURFACE SEE NOTE		
Existing Surpace SEE NOTE PRIME COAT 3° (MIN) MINE ACOREGATE B CRUSHE CRUSHE 2		
CASHING SOURCE SEE NOTE PRIJE COAT 8" (NUM) MIR AGGREGATE B CRUSH "CRUSH 2		
PRIME COAT B <sup>*</sup> (MIN) MINE AGGREGATE B CRUSH "CRUSHE 2	SEE NOTE	
PRIME COAT 3° (MIN) MINE AGORECATE B CRUSH CRUSH 2		
PRIME COAT 8" (MIN) MINE AGGREGATE B CRUSHE "CRUSHE 2		
PRIME COAT B" (MIN) MINE AGGREGATE B CRUSHE "CRUSHE 2		
PRIME COAT B" (MN) MINE ACOREGATE B CRUSH "CRUSHE		
PRIME COAT B" (MIN) MINE AGOREGATE B CRUSH "CRUSHE 2		
PRIME COAT B" (MIN) MINE ACGREGATE B CRUSH "CRUSHE 2		
PRIME COAT 8" (MIN) MINE AGGREGATE B CRUSH "CRUSHE 2		
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s" (MIN) MINE AGGREGATE B CRUSH "CRUSHE 2		
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![](_page_22_Figure_2.jpeg)