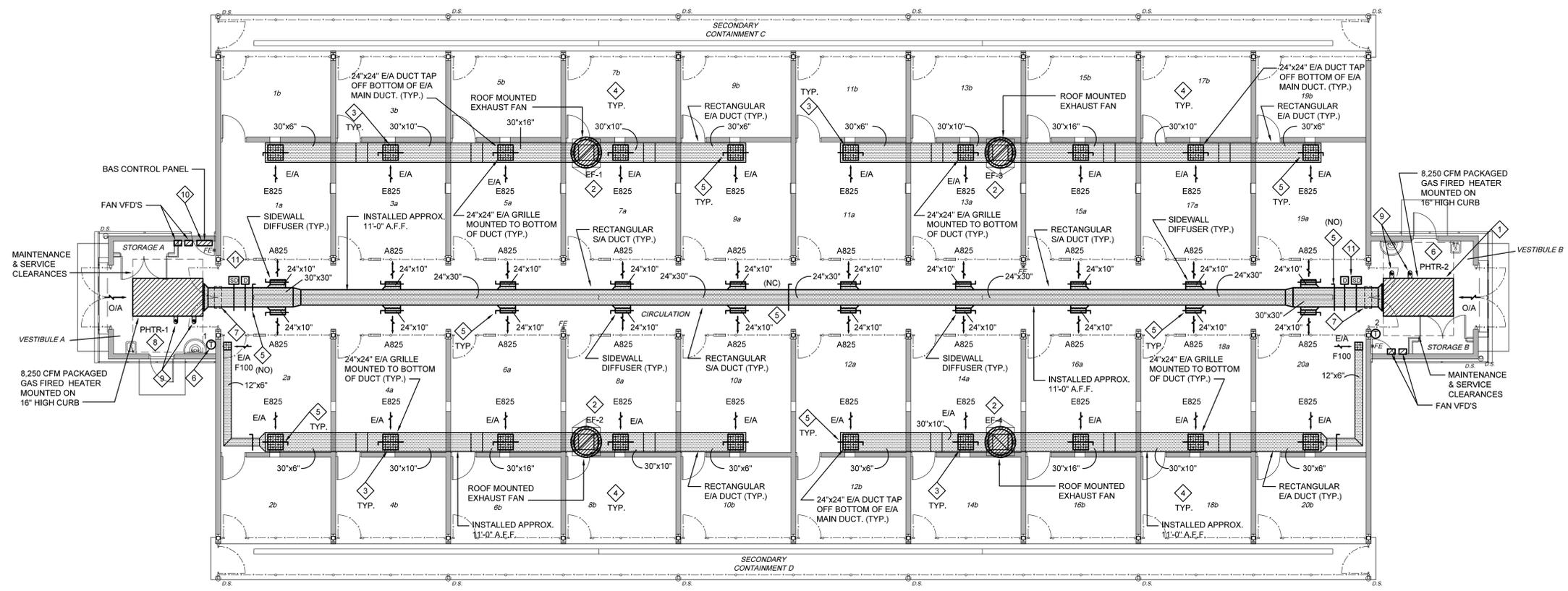


HVAC GENERAL NOTES

- ALL WORK SHALL COMPLY WITH NIH DRM, LOCAL, STATE, AND FEDERAL CODES TO THE SATISFACTION OF CODE AUTHORITIES HAVING JURISDICTION.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NIH DRM, NFPA 90A & 101, THE CLEAN AIR ACT AND THE AMERICANS WITH DISABILITIES ACT.
- COORDINATE ALL CEILING DEVICES, DUCTWORK, ETC. WITH LIGHTING, STRUCTURE, ETC. THROUGH GENERAL CONTRACTOR. REFER TO ALL DRAWINGS (STRUCTURAL, PLUMBING, ELECTRICAL, ARCHITECTURAL, ETC.). NOTIFY ARCHITECT/ENGINEER CONCERNING ANY CONFLICTS NOTED PRIOR TO BIDS FOR CLARIFICATION TO THE SATISFACTION OF THE BIDDER. REFER TO DIVISION 23 SPECIFICATIONS FOR REQUIREMENTS.
- ALL SUPPLY AIR AND EXHAUST AIR DUCTWORK SHALL BE UNINSULATED UNLESS OTHERWISE NOTED. DUCT SIZES SHOWN ARE CLEAR METAL TO METAL.
- HARDCAST ALL DUCTWORK JOINTS FOR AIRTIGHT SYSTEM. REFER TO DETAILS FOR DUCTWORK TAP, SPLITTER, BRANCH CONFIGURATION, ETC. INSTALL IN ACCORDANCE WITH SMACNA RECOMMENDATIONS AND INSTALLATION GUIDELINES.
- VERIFY ALL OUTSIDE AIR INTAKES FOR PACKAGED HEATER ARE A MINIMUM OF TEN FEET FROM EXHAUST OUTLETS, SEWER VENTS, ETC.

HVAC KEYNOTES

- PROVIDE AND INSTALL A PACKAGED GAS FIRED MAKE-UP AIR HEATER ON CONCRETE DECK IN THIS VICINITY.
- PROVIDE AND INSTALL A ROOF MOUNTED EXHAUST FAN ON EXISTING ROOF CURB IN THIS VICINITY.
- 24"x24" DUCT OFF THE BOTTOM OF THE MAIN EXHAUST DUCT THAT SHALL CONNECT TO THE EXHAUST GRILLE FULL-SIZE. A MANUAL BALANCING DAMPER SHALL BE PLACED IN THE DUCT BETWEEN MAIN DUCT AND GRILLE FOR AIR BALANCING PURPOSES. GRILLE SHALL BE INSTALLED APPROXIMATELY 10'-0" A.F.F.
- RUN MAIN DUCTWORK AS SHOWN. COORDINATE EXACT ROUTING, LOCATION, AND ELEVATION FIELD WITH ARCHITECT/OWNER, AND ALL OTHER TRADES PRIOR TO ROUGH-IN.
- PROVIDE AND INSTALL MANUAL BALANCING DAMPER IN THIS VICINITY.
- PROVIDE AND INSTALL TEMPERATURE SENSOR IN LOCKABLE BOX ON WALL IN THIS VICINITY.
- COORDINATE EXACT LOCATION OF S/A DUCT PENETRATION THROUGH SIDE WALL IN THIS VICINITY. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL REQUIREMENTS OF WALL PENETRATIONS.
- EXTERIOR DUCTWORK SHALL BE INSULATED PER DETAIL AND SPECIFICATION.
- PROVIDE AND INSTALL A VERTICAL FLUE DISCHARGE. THE FLUE PIPE SHALL EXTEND A MINIMUM 2 FEET ABOVE THE BUILDING ROOF LINE. COORDINATE TERMINATION HEIGHT IN FIELD PRIOR TO ORDERING VENT PIPE AND RESPECTIVE ROUGH-IN. THE VENT PIPE AND SUPPORTS ARE TO BE FIELD INSTALLED.
- PROVIDE AND INSTALL A BAS PANEL IN THIS VICINITY. COORDINATE EXACT LOCATION IN FIELD WITH OWNER PRIOR TO ROUGH-IN. THE TEMPERATURE CONTROLS COMPONENTS, EQUIPMENT, ETC. INSTALLED AS PART OF THIS PROJECT SHALL BE INTEGRATED TO BE TIED BACK INTO THE EXISTING FRONT-END LOCATED ON THE CAMPUS.
- PROVIDE AND INSTALL SMOKE DUCT DETECTOR W/ SMOKE DAMPER (120V) IN DUCTWORK IN THIS VICINITY. SEE DETAIL.



NOTE:
 REFER TO ARCHITECTURAL PLANS FOR ALL DIMENSIONS.

NOTE:
 COORDINATE ROUTING OF DUCTWORK WITH STRUCTURAL BEAMS, JOIST, PIPING, CONDUIT, ETC. IN FIELD. PROVIDE OFFSETS AS REQUIRED FOR CEILING ELEVATION CHANGES, ETC. AS REQUIRED.



ASSOCIATED DESIGN GROUP, INC.
 3909 W Congress Street, Suite 201
 Lafayette, Louisiana 70506
 Phone: (337) 234-5710
 Email: adginc@adginc.org

Project No. 24138-A



PACKAGED GAS FIRED MAKE-UP AIR UNIT HEATER SCHEDULE

UNIT		FAN			POWER					HEATING							REMARKS	NOTES	
NO.	SERVICE	MIN. CFM	CFM F/A	EXT. S.P.	FLA	MCA	MOP	ELECTRIC SERVICE	CONTROL	MAX INPUT	DESIGN OUTPUT	MAX OUTPUT	SERVICE	STAGES	CONN. SIZE	ENT (°F) DB			LEAV (°F) DB
PHTR-1	SUPPLY AIR & HEAT FOR BUILDING	8,250	100%	.50" W.G.	24.20	30.25	50.0	208/3/60	VFD / BAS	800,000	552,400	640,000	NAT. GAS	2.0	1-1/4	25.0	87.0	REZNOR MODEL RPBL - 800 OR APPROVED EQUAL.	1,2,3,4
PHTR-2	SUPPLY AIR & HEAT FOR BUILDING	8,250	100%	.50" W.G.	24.20	30.25	50.0	208/3/60	VFD / BAS	800,000	552,400	640,000	NAT. GAS	2.0	1-1/4	25.0	87.0	REZNOR MODEL RPBL - 800 OR APPROVED EQUAL.	1,2,3,4

- NOTES:**
- SHALL BE RATED FOR OUTDOOR INSTALLATION.
 - SHALL BE PROVIDED WITH VERTICAL FLUE DISCHARGE (OPTION CC3)
 - SHALL BE INSTALLED ON MANUFACTURER PROVIDED 16" HIGH ROOF CURB.
 - VFD SHALL BE INTERNAL OF THE UNIT.

FAN SCHEDULE

No.	SERVICE	MIN CFM	EXT. SP	RPM	SONES	FAN HP	TYPE	DRIVE	ELECTRIC SERVICE	CONTROL	REMARKS	NOTES
EF-1	SEE PLANS	4,125	.50" WG	1,725	25	2.0	CENT.	DIRECT	208/3/60	VFD / BAS	COOK MODEL ACE-D 165C17D OR APPROVED EQUAL	1
EF-2	SEE PLANS	4,225	.50" WG	1,725	26	2.0	CENT.	DIRECT	208/3/60	VFD / BAS	COOK MODEL ACE-D 195C175 OR APPROVED EQUAL	1
EF-3	SEE PLANS	4,125	.50" WG	1,725	25	2.0	CENT.	DIRECT	208/3/60	VFD / BAS	COOK MODEL ACE-D 165C17D OR APPROVED EQUAL	1
EF-4	SEE PLANS	4,225	.50" WG	1,725	26	2.0	CENT.	DIRECT	208/3/60	VFD / BAS	COOK MODEL ACE-D 195C175 OR APPROVED EQUAL	1

- NOTES:**
- SHALL BE MOUNTED TO EXISTING CURB.

GRILLE SCHEDULE

SYMBOL	SIZE	SERVICE	LOCATION	FINISHED	REMARKS	NOTES
A	24"x10"	SUPPLY	DUCT	MILL	TITUS MODEL 350FL	1
E	24"x24"	EXHAUST	DUCT	MILL	TITUS MODEL 50F OR APPROVED EQUAL	1
F	24"x24"	EXHAUST	DUCT	W.B.E.	TITUS MODEL 50F OR APPROVED EQUAL	1

- NOTE:**
- ALL GRILLES AND REGISTERS SHALL BE CONSTRUCTED ON ALUMINUM.

APPROVED EQUALS: THE FOLLOWING MANUFACTURERS OF HVAC MATERIALS OF COMPARABLE QUALITY TO THOSE ITEMS SPECIFIED ARE CONSIDERED APPROVED EQUALS SUBJECT TO COMPLIANCE WITH REQUIREMENTS OF THE INDIVIDUAL SPECIFICATIONS.

ITEM	MANUFACTURERS
AIR DISTRIBUTION	PRICE INDUSTRIES, TITUS, NAILOR, METALAIR
MOTORIZED DAMPER	GREENHECK, RUSKIN, NAILOR, LEADER, POTTORFF
MANUAL DAMPERS	GREENHECK, RUSKIN, NAILOR, LEADER, POTTORFF
FANS (ALL TYPES)	GREENHECK, COOK, ILG/AMERICAN COOLAIR, TWIN CITY, PENN/BARRY
GAS FIRED UNIT HEATERS	REZNOR, MODINE, STERLING
RIGID SNAPLOCK DUCT	JOVAL
SPIRAL PIPE AND FITTINGS	SPIRAL PIPE OF TEXAS, UNITED MCGILL, EASTERN SHEETMETAL, SEMCO, HAMLIN SHEET METAL, DUCT DIRECT, HAMLIN S/M

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
PHTR	PACKAGED GAS FIRED HEATER
S/A	SUPPLY AIR
E/A	EXHAUST AIR
EF	GENERAL EXHAUST FAN
⊕	THERMOSTAT / TEMP. SENSOR
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE

HVAC Schedules

NOTE:
SEQUENCE OF OPERATION FOR THE PACKAGED HEATERS AND FANS IS LOCATED IN THE SPECIFICATION SECTION 23 09 00 BUILDING AUTOMATION SYSTEM.

1 PLASTIC LAMINATE NAME PLATE DETAIL
NO SCALE

2 ELBOW CONSTRUCTION DETAIL
NO SCALE

3 SUPPLY OR RETURN AIR DUCT CONNECTION DETAIL
NO SCALE

4 CURB MOUNTED EXHAUST FAN DETAIL
NO SCALE

5 AIR DUCT CONNECTION DETAIL
NO SCALE

6 EXTERIOR DUCT INSTALLATION DETAIL
NO SCALE

7 DUCT DETECTOR DETAIL
NO SCALE

HVAC Details

ADG ENGINEERING
ASSOCIATED DESIGN GROUP, INC.
3909 W Congress Street, Suite 201
Lafayette, Louisiana 70506
Phone: (337) 234-5710
Email: adginc@adginc.org

Project No. 24138-A



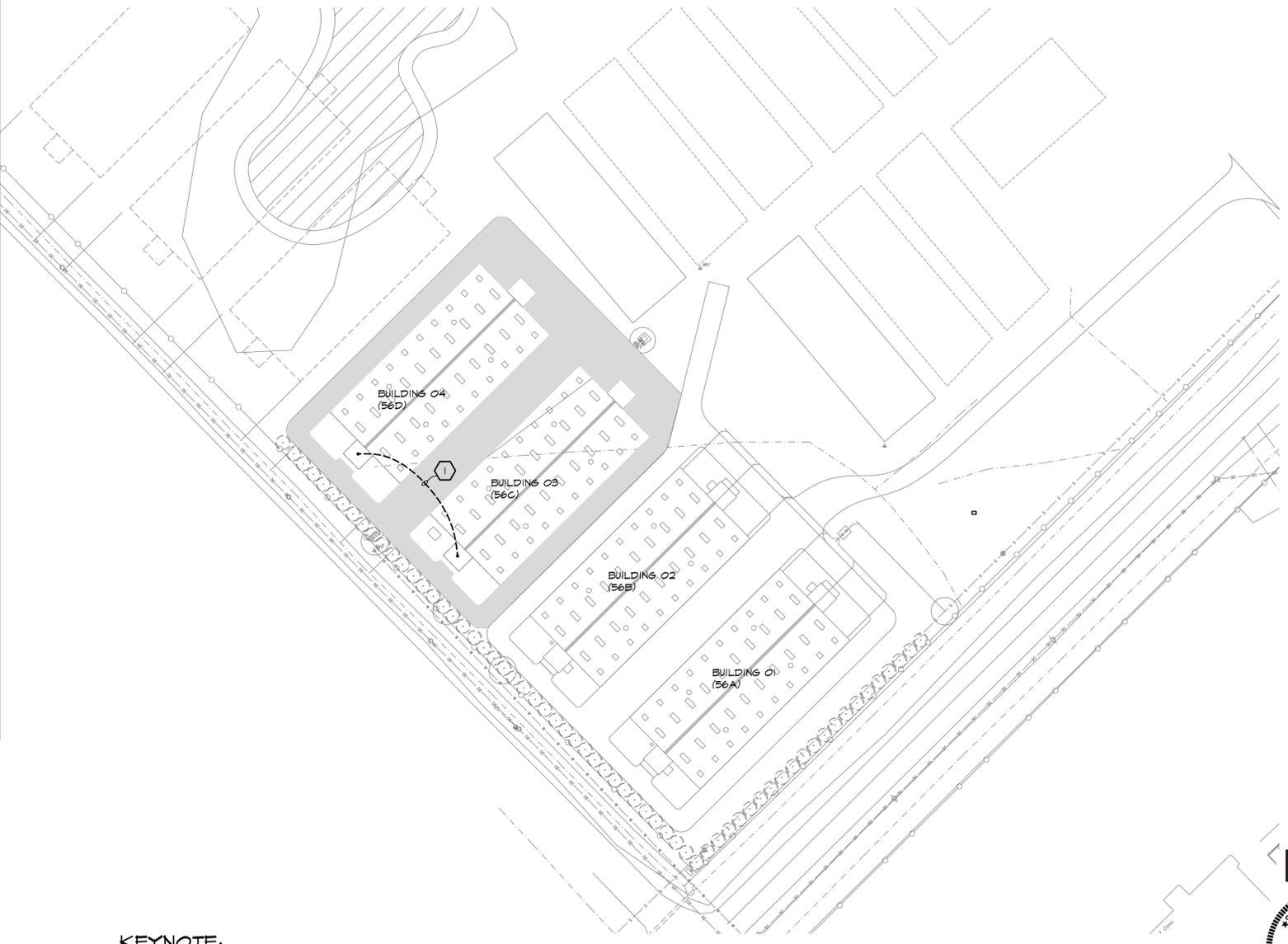
SYMBOL SCHEDULE (APPLIES TO ALL SHEETS)

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 18" AFF IVORY IN COLOR, UNLESS OTHERWISE NOTED.
	SPECIAL PURPOSE RECEPTACLE, AS NOTED
	QUADRUPLUX OUTLET NEMA 5-20R MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
	COMPUTER OUTLET 18" AFF UNLESS OTHERWISE NOTED STUB HOMERUN TO FUTURE DATA RACK IN 1" C TYPICAL, UNLESS INDICATED OTHERWISE.
	PANELBOARD, FLUSH MOUNTED UNLESS INDICATED OTHERWISE.
	J-BOX
	ELECTRIC MOTOR.
	DISCONNECT SWITCH.
	LIGHTING FIXTURE, AS NOTED.
	FLOOD LIGHT, AS NOTED.
	WALL MOUNTED LIGHTING FIXTURE.
	EXIT LIGHT
	EXIT LIGHT, WALL MOUNTED
	EMERGENCY LIGHT
	TOGGLE SWITCH, MTD. 46" AFF TO CENTER
	THREE-WAY SWITCH, MTD. 46" AFF TO CENTER
	FOUR-WAY SWITCH, MTD. 46" AFF TO CENTER.
	DIMMER SWITCH.
	KEYED SWITCH
	MOTOR RATED TOGGLE SWITCH WITH THERMAL PROTECTION.
	SWITCH WITH PILOT LIGHT
	OCCUPANCY SENSOR SWITCH.
	CEILING MTD, OCCUPANCY SENSOR AND ASSOCIATED POWER PACK.
	INDIVIDUAL CIRCUIT RUN DIRECTLY TO PANEL FROM THIS POINT. (DO NOT COMBINE HOMERUNS).
	CONDUIT CONCEALED IN WALL OR CEILING.
	CONDUIT RUN BELOW FLOOR OR SLAB.
	COUNTERTOP, MTD. 4" CL ABOVE COUNTER BACKSPASH, MOUNTED HORIZONTALLY.
	WATERPROOF
	GROUND FAULT CIRCUIT INTERRUPTER WEATHER RESISTANT TYPE DEVICE WHERE LOCATED IN DAMP OR WET LOCATIONS.
	FUSED DISCONNECT SWITCH
	VERIFY ON JOB.
	COPPER
	ABOVE FINISHED FLOOR.
	NON-FUSED SWITCH.
	MOUNTED
	TYPICAL
	RIGID GALVANIZED STEEL
	WIREWAY WITH INDIVIDUAL DISCONNECTS.
	PHOTO-CELL
	SWITCH PACK
	FUTURE CAMERA. 1" C WITH FULLSTRING FROM 12" AFF WITH SINGLE GANG BOX TO FUTURE DATA RACK.
	MOTORIZED DAMPER (CONNECT TO NEARBY 120V).

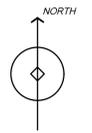
NOT ALL SYMBOLS APPLY TO EVERY PROJECT. ALL DIMENSIONS TO MIDDLE OF DEVICE, UNLESS INDICATED OTHERWISE ON FLOOR PLAN.

GENERAL NOTES: (APPLIES TO ALL SHEETS)

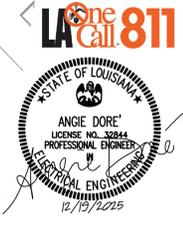
- ALL CONDUCTORS SHALL BE COPPER.
- ALL WIRING SHALL BE IN CONDUIT, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- NO MORE THAN THREE PHASE (HOT) CONDUCTORS SHALL BE RUN IN A SINGLE RACEWAY, WHERE MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE IN A SINGLE RACEWAY (PHASE PLUS NEUTRALS), THESE CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH NEC TABLE 310.15 (C) (1).
- MAXIMUM LENGTH OF FIXTURE WHIPS SHALL BE 6'-0".
- MC CABLE IS NOT AN APPROVED WIRING METHOD.
- PVC CONDUIT SHALL NOT BE USED ABOVE GRADE. TRANSITION FROM PVC TO RIGID 6" BELOW SLAB. PENETRATE SLAB WITH RIGID CONDUIT A MINIMUM OF 3".
- NO CONDUIT SHALL BE RUN IN SLABS.
- CONTRACTOR SHALL HANG ALL FIXTURES FROM STRUCTURE WITH MINIMUM OF TWO HANGERS.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO EXAMINE EXISTING CONDITIONS, SAME SHALL BE CONSIDERED IN BID. CONTRACTOR SHALL INFORM PROJECT ELECTRICAL ENGINEER PRIOR TO LAST APPENDIX IN THE EVENT THAT EXISTING CONDITIONS HINDER WORK CALLED FOR ON DRAWINGS.
- CONTRACTOR SHALL CUT AND PATCH OR BORE UNDER ALL EXISTING SIDEWALKS, DRIVEWAYS, ETC. AS NEEDED FOR NEW CONDUIT INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ELECTRICAL BREAKER SIZES WITH ACTUAL MECHANICAL EQUIPMENT BEING INSTALLED. DO NOT REDUCE CONDUIT AND CONDUCTOR SIZES FOR MECHANICAL EQUIPMENT ACTUALLY BEING INSTALLED.
- ALL EMPTY CONDUITS SHALL INCLUDE FULLSTRING FOR FUTURE.
- ALL COMMUNICATIONS, FIRE ALARM AND INTERCOM CABLING BEING INSTALLED OUTDOORS SHALL BE RATED FOR WET LOCATIONS. ALL FIRE ALARM STROBES SHALL BE SYNCHRONIZED.
- CONTRACTOR SHALL CONTACT ALL UTILITIES PRIOR TO BID AND OBTAIN ANY CHARGES FOR SERVICES OUTLINED. ALL COST SHALL BE INCLUDED IN BID.
- PLANS AND SPECIFICATIONS SHALL BE CONSIDERED MINIMUM STANDARDS.
- ALL CIRCUITS SHALL CONTAIN AN INSULATED GROUND CONDUCTOR IN ADDITION TO PHASE AND NEUTRAL CONDUCTORS INDICATED ON PLANS AND IN PANEL SCHEDULES.
- ALL CONDUIT ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED STEEL.
- NON-METALLIC FLEXIBLE CONDUIT IS NOT AN APPROVED WIRING METHOD.
- ALL SWITCHES AND RECEPTACLES SHALL BE RATED 20 AMPS MINIMUM.
- MINIMUM CONDUIT SIZE SHALL BE 1/2".
- MINIMUM WIRE SIZE SHALL BE #12.
- ALL ELECTRICAL WORK SHALL BE DONE BY QUALIFIED LICENSED ELECTRICIANS.
- DO NOT COMBINE HOMERUNS, MULTIPLE HOTS IN A SINGLE JUNCTION BOX, OR DEVICE SHALL BE ON A SIMULTANEOUS DISCONNECTING HANDLE TIE OR COMMON TRIP BREAKER.
- CIRCUIT DIRECTORY, EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE IDENTIFIED AS TO ITS CLEAR EVIDENT, AND SPECIFIC PURPOSE OF USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. SPARE POSITIONS SHALL BE DESCRIBED ACCORDINGLY AS PER NEC SECTION 408.4.
- CONTRACTOR SHALL REVIEW THE ENTIRE SPECIFICATIONS/ PROJECT FOR ADDITIONAL REQUIREMENTS DETAILED IN OTHER DIVISIONS SECTIONS (INCLUDING BUT NOT LIMITED TO FOOD SERVICE, DOOR HARDWARE, SEWER TREATMENT AND DIVISION 23).
- SECURE RACEWAY TO REINFORCING RODS TO PREVENT SAGGING/ SHIFTING USING STAINLESS STEEL STRAPS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH, AND SIZE OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO EXCAVATION AND SHALL BE LIABLE FOR ANY DAMAGES CAUSED. ALL REPAIRS SHALL BE COMPLETED BY THE APPROPRIATE LICENSED CONTRACTOR.
- CONTRACTOR TO PROVIDE PERMANENT MARKING OF PHASE ROTATION AT MAIN SERVICE INTERIOR PANEL.
- CONTRACTOR TO USE MYERS HUB CONNECTORS AT ALL EXTERIOR PANELBOARDS, DISCONNECTS, CABINETS, JUNCTION BOXES, TROUGHS, ETC. PENETRATIONS (INCLUDING SIDE PENETRATIONS).



KEYNOTE:
 1 EXISTING 1 1/2" C BETWEEN FUTURE DATA RACKS WITH FULLSTRING.



ELECTRICAL SITE PLAN
 REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
 SCALE: 1"=50'-0"
 0 25' 50' 100' FT



THOMASSEE ASSOCIATES
 LIMITED LIABILITY COMPANY

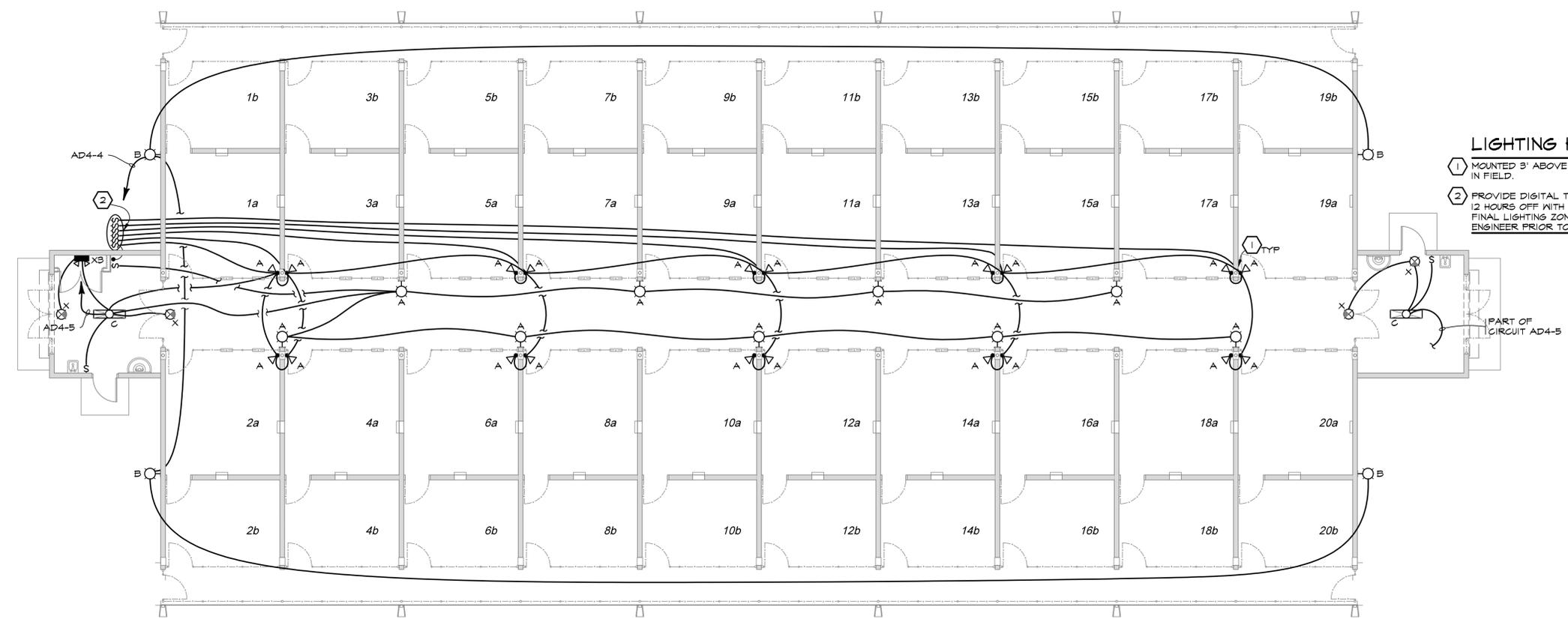


LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	WATTAGE	LUMEN	COLOR (KELVIN)	CRI	DESCRIPTION	REMARKS
A	LITHONIA	DSXFILED P2 40K WFL MVOLT YK62	42	5500	4000	70	FLOOD LIGHT	1, 3
A	GARDCO BY SIGNIFY	C8F8 AO4-T40-AB3-TRN		5500	4000	70		
A	LUMARK AP	LSF 65 YK PC	35	6500	4000	70		
B	LITHONIA	DSXVII LED 100 700 40K T8M MVOLT	26	2600	4000	70	WALLPACK	1, 2
C	LITHONIA	GSVT L48 ALO3 MVOLT SWM3 80CRI SET TO 5000 LUMENS AND 40K CCT	27-42	3100-4900	4000	80	SURFACE MTD	
C	DAY-BRITE BY SIGNIFY	VTS-4-2856L-840-UN3-DIM	32	4200	4000	80		
C	METALUX	4APVTLD-SL3C3-SET AT MID POWER	32	4620	4000	80		
X	LITHONIA	LE S I & ELN	1.7	--	--	--	EXIT LIGHT	
X	CHLORIDE BY SIGNIFY	ER46L I & S	2.5	--	--	--		
X	SURE LITES BY COOPER	EST-I-70-S		--	--	--		
X3	LITHONIA	ELM4L	1.4	--	--	--	EMERG FLOOD	1
X3	CHLORIDE BY SIGNIFY	VLLU	2	--	--	--		
X3	SURE LITES BY COOPER	APEL	1.56	--	--	--		

REMARKS:
 1. FINISH SELECTED BY ARCHITECT DURING SHOP DRAWINGS.
 2. OWNER PROVIDED, CONTRACTOR INSTALLED.
 3. PROVIDE WITH BACK BOX.

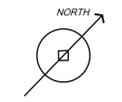
NOTES:
 1. ALL FIXTURES ACCESSORIES NEEDED FOR PROPER INSTALLATION SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 2. EXACT PLACEMENT OF ALL EXTERIOR LIGHTING FIXTURES TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALL.
 3. ANY FIXTURE AIMING SHALL BE AS PER ENGINEER IN FIELD.
 4. CONTRACTOR TO PROVIDE AND INSTALL ANY AND ALL LOW VOLTAGE CONTROLS REQUIRED FOR DIMMING AND / OR OCCUPANCY SENSORS.



LIGHTING KEYNOTES:

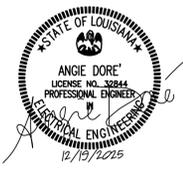
① MOUNTED 3' ABOVE CASE. AIMING BY ENGINEER IN FIELD.

② PROVIDE DIGITAL TIME CLOCK. 12 HOURS ON / 12 HOURS OFF WITH OVERRIDE. (6 TOTAL) VERIFY FINAL LIGHTING ZONING WITH OWNERS' PROJECT ENGINEER PRIOR TO ROUGH-IN.

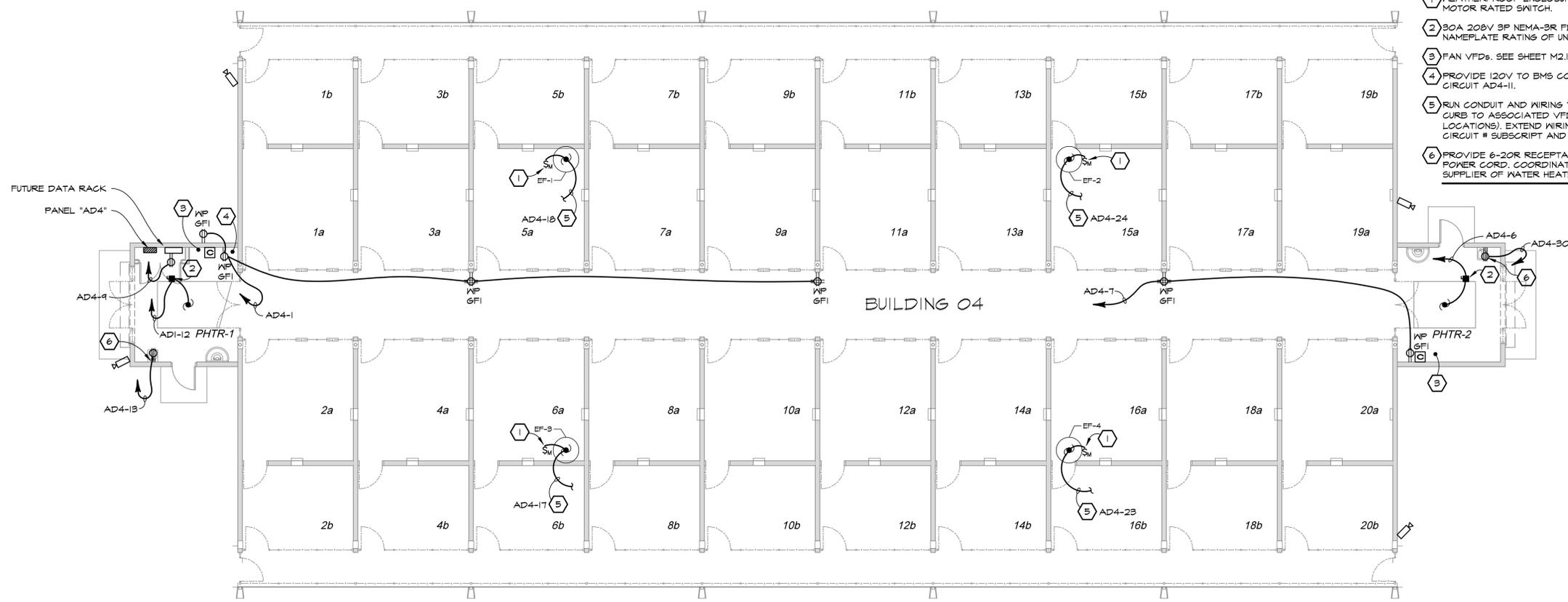


LIGHTING PLAN

REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
 SCALE: 1/8" = 1'-0"
 0 4' 8' 16 FT

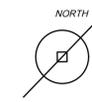


THOMASSEE ASSOCIATES
 LIMITED LIABILITY COMPANY



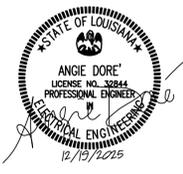
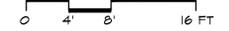
KEYNOTES:

- 1 WEATHERPROOF ENCLOSURE WITH 2HP 3Ø MOTOR RATED SWITCH.
- 2 30A 208V 3Ø NEMA-3R FDS, FUSED AT NAMEPLATE RATING OF UNIT.
- 3 FAN VFDs. SEE SHEET M2.1.
- 4 PROVIDE 120V TO BMS CONTROL PANEL CIRCUIT AD4-11.
- 5 RUN CONDUIT AND WIRING THROUGH ROOF CURB TO ASSOCIATED VFD (SEE M2.1 FOR LOCATIONS). EXTEND WIRING TO PANEL CIRCUIT # SUBSCRIPT AND KEYNOTE.
- 6 PROVIDE 6-20R RECEPTACLE AND POWER CORD. COORDINATE WITH SUPPLIER OF WATER HEATER.



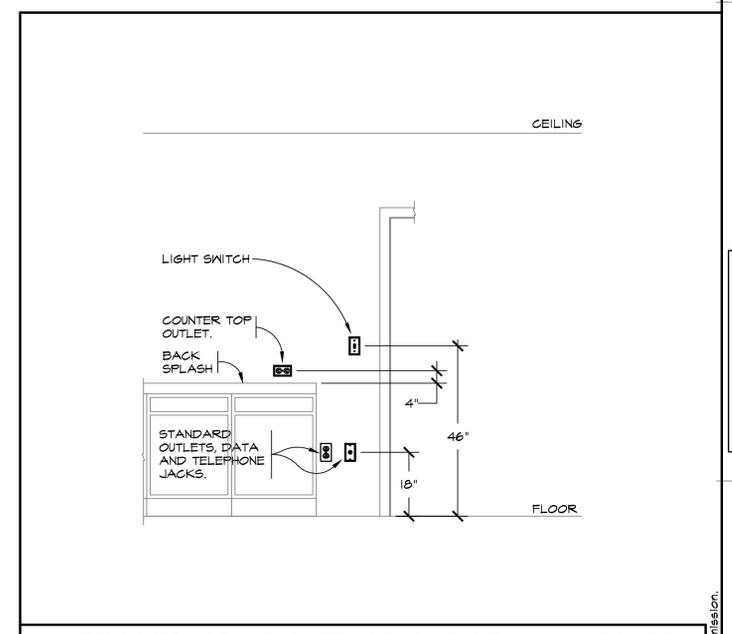
POWER - SPECIAL SYSTEMS PLAN

REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
SCALE: 1/8"=1'-0"

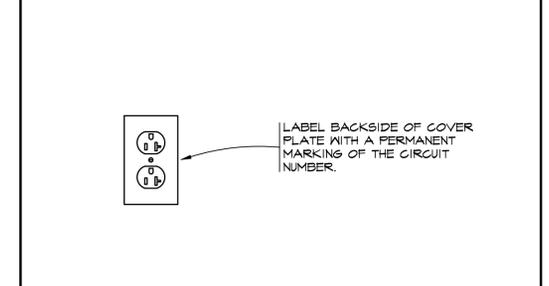


THOMASSEE ASSOCIATES
LIMITED LIABILITY COMPANY

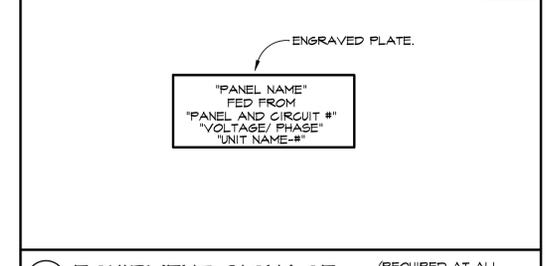




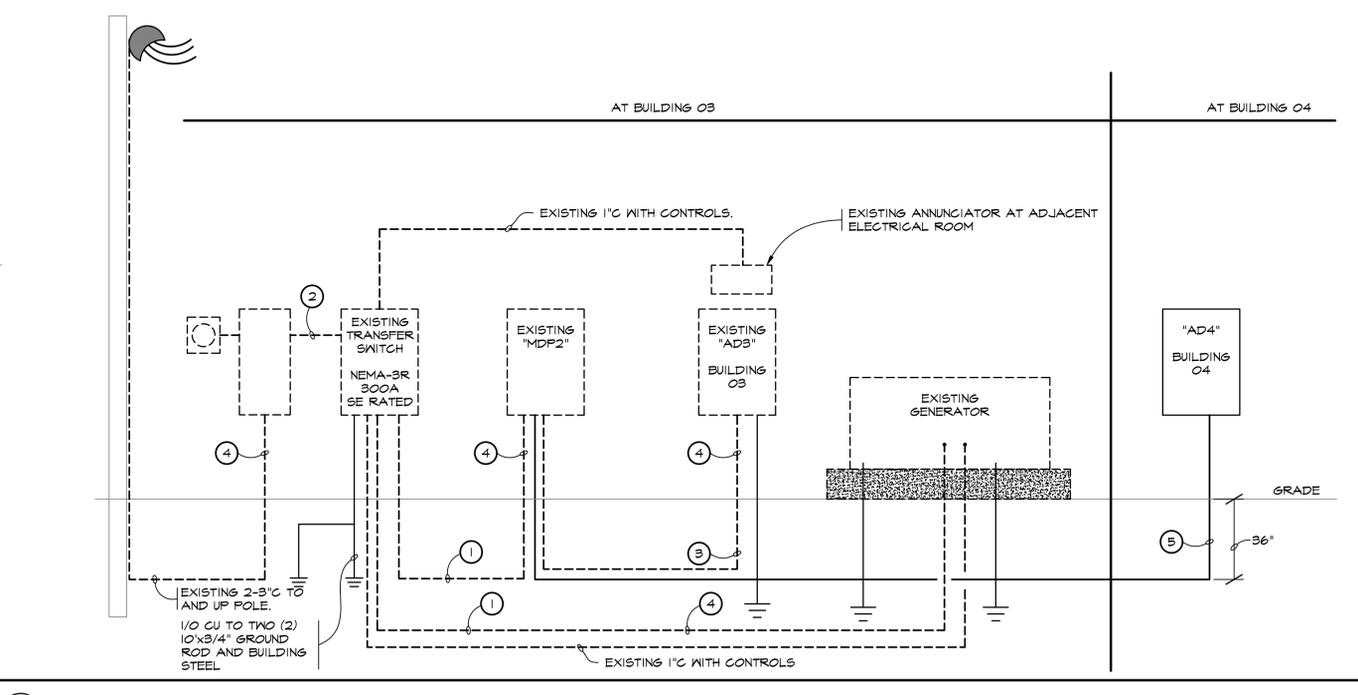
3 REFERENCE HEIGHTS OF OUTLETS - SWITCHES
 NOT TO SCALE



2 RECEPTACLE DETAIL
 NOT TO SCALE



1 EQUIPMENT SIGNAGE
 NOT TO SCALE



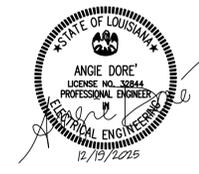
5 ELECTRICAL RISER DIAGRAM
 NO SCALE

ELECTRICAL RISER KEYNOTES:

- 1 4-350, 1-#4S; 3'G.
- 2 4-350; 3'G.
- 3 4-1/0, 1-#6G; 2'G.
- 4 EXISTING.
- 5 CONTRACTOR TO PROVIDE 4-1/0, 1-#6 IN EXISTING 2'G.

ELECTRICAL RISER NOTES:

- 1. CONTRACTOR SHALL CONTACT UTILITY COMPANY PRIOR TO BID AND OBTAIN ANY CHARGES FOR SERVICES SHOWN. SAME SHALL BE IN BID.
- 2. CONTRACTOR TO USE MYERS HUB CONNECTORS AT ALL EXTERIOR PANELBOARDS (DISCONNECTS, ETC) PENETRATIONS (INCLUDING SIDE PENETRATIONS).
- 3. ALL CONDUCTORS SHALL BE COPPER.
- 4. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA 70 NATIONAL ELECTRICAL CODE 2023 VERSION AND INSTALLATION DONE BY QUALIFIED LICENSED ELECTRICIAN.
- 5. CONTRACTOR TO REFER TO DIV 26 SPECIFICATIONS FOR REQUIREMENTS ON TESTING, IR SCANS AND LOAD BALANCING REQUIREMENTS.
- 6. CONTRACTOR TO PROVIDE PERMANENT MARKING OF PHASE ROTATION AT MAIN SERVICE INTERIOR PANEL.
- 7. REFER TO MECHANICAL DETAIL FOR GENERATOR GAS PIPING / METER REQUIREMENTS.



THOMASSEE ASSOCIATES
 LIMITED LIABILITY COMPANY

PANELBOARD
"AD3"

VOLTAGE: 120/208V, 3 PHASE, 4 WIRE
MOUNTING: SURFACE
NEMA: 1
ULSE: YES ___ NO X

PROVIDE WITH 80KA/PHASE INTEGRAL SPD

MAIN: 150A MB 100% RATED
AIC: 22,000
LOAD: 40.6 KW

DESCRIPTION	LOAD (KVA)			WIRE	GND	MIN COND	BRKR AMPS	CCT NO.	CCT NO.	BRKR AMPS	WIRE	GND	MIN COND	LOAD (KVA)			DESCRIPTION
	#A	#B	#C											#A	#B	#C	
OUTLETS	1200			2-#12	#12	1/2"	20A	1	2	20A	2-#12	#12	1/2"	1200			GEN HEATER
GEN CHARGER		400		2-#12	#12	1/2"	20A	3	4	*20A	2-#12	#12	1/2"		400		LIGHTING EXTERIOR
LIGHTING			1600	2-#12	#12	1/2"	20A	5	6	50A	2-#8	#10	3/4"			2940	AHU-2
OUTLETS	1000			2-#12	#12	1/2"	20A	7	8					2940			
DATA RACK		800		2-#12	#12	1/2"	20A	9	10					2940			
BMS CONTROLLER			400	2-#12	#12	1/2"	20A	11	12	50A	2-#8	#10	3/4"			2940	AHU-1
VH-	1500			2-#12	#12	3/4"	20A	13	14					2940			
		1500						15	16					2940			
EF-3			900	3-#12	#12	3/4"	15A	17	18	15A	3-#12	#12	3/4"			900	EF-1
	900							19	20					900			
		900						21	22					900			
EF-1			900	3-#12	#12	3/4"	15A	23	24	15A	3-#12	#12	3/4"			900	EF-2
	900							25	26					900			
		900						27	28					900			
SPARE				--	--	--	20A	29	30	20A	2-#12	#12	1/2"				VH
SPARE				--	--	--	20A	31	32								
SPARE				--	--	--	20A	33	34	20A	--	--	--				SPACE
SPARE				--	--	--	20A	35	36	20A	--	--	--				SPACE
SPARE				--	--	--	20A	37	38	20A	--	--	--				SPACE
SPARE				--	--	--	20A	39	40	20A	--	--	--				SPACE
SPARE				--	--	--	20A	41	42	20A	--	--	--				SPACE

* CONTROL CIRCUIT 4 WITH PHOTOCELL / TIME CLOCK COMBINATION. MOUNT TIME CLOCK ADJACENT THIS PANEL.

PANELBOARD
"AD4"

VOLTAGE: 120/208V, 3 PHASE, 4 WIRE
MOUNTING: SURFACE
NEMA: 1
ULSE: YES ___ NO X

PROVIDE WITH 80KA/PHASE INTEGRAL SPD

MAIN: 150A MB 100% RATED
AIC: 22,000
LOAD: 39 KW

DESCRIPTION	LOAD (KVA)			WIRE	GND	MIN COND	BRKR AMPS	CCT NO.	CCT NO.	BRKR AMPS	WIRE	GND	MIN COND	LOAD (KVA)			DESCRIPTION
	#A	#B	#C											#A	#B	#C	
OUTLETS	1200			2-#12	#12	1/2"	20A	1	2	20A	--	--	--				SPARE
SPARE				--	--	--	20A	3	4	*20A	2-#12	#12	1/2"		400		LIGHTING EXTERIOR
LIGHTING			1600	2-#12	#12	1/2"	20A	5	6	50A	2-#8	#10	3/4"			2940	AHU-2
OUTLETS	1000			2-#12	#12	1/2"	20A	7	8					2940			
DATA RACK		800		2-#12	#12	1/2"	20A	9	10					2940			
BMS CONTROLLER			400	2-#12	#12	1/2"	20A	11	12	50A	2-#8	#10	3/4"			2940	AHU-1
VH-	1500			2-#12	#12	3/4"	20A	13	14					2940			
		1500						15	16					2940			
EF-3			900	3-#12	#12	3/4"	15A	17	18	15A	3-#12	#12	3/4"			900	EF-1
	900							19	20					900			
		900						21	22					900			
EF-4			900	3-#12	#12	3/4"	15A	23	24	15A	3-#12	#12	3/4"			900	EF-2
	900							25	26					900			
		900						27	28					900			
SPARE				--	--	--	20A	29	30	20A	2-#12	#12	1/2"				VH
SPARE				--	--	--	20A	31	32								
SPARE				--	--	--	20A	33	34	20A	--	--	--				SPACE
SPARE				--	--	--	20A	35	36	20A	--	--	--				SPACE
SPARE				--	--	--	20A	37	38	20A	--	--	--				SPACE
SPARE				--	--	--	20A	39	40	20A	--	--	--				SPACE
SPARE				--	--	--	20A	41	42	20A	--	--	--				SPACE

* CONTROL CIRCUIT 4 WITH PHOTOCELL / TIME CLOCK COMBINATION. MOUNT TIME CLOCK ADJACENT THIS PANEL.

PANELBOARD
"MDP2"

VOLTAGE: 120/208V, 3 PHASE, 4 WIRE
MOUNTING: SURFACE
NEMA: 3R
ULSE: YES ___ NO X

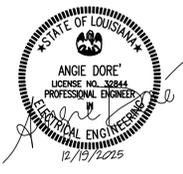
PROVIDE WITH 80KA/PHASE INTEGRAL SPD

MAIN: 300 MB 100% RATED
AIC: 22,000
LOAD: 19.6 KW

DESCRIPTION	LOAD (KVA)			WIRE	GND	MIN COND	BRKR AMPS	CCT NO.	CCT NO.	BRKR AMPS	WIRE	GND	MIN COND	LOAD (KVA)			DESCRIPTION
	#A	#B	#C											#A	#B	#C	
PANEL "AD3"	1350			SEE RISER DIAGRAM			150A	1	2	150A	SEE RISER DIAGRAM			1280			PANEL "AD4"
		1210						3	4					1170			
			1480					5	6					1480			
SPARE				--	--	--	100A	7	8	100A	--	--	--				SPACE
								9	10								
								11	12								

ELECTRICAL GEAR SHALL NOT BE ORDERED UNTIL ALL ELECTRICAL STUDIES ARE COMPLETE AND ACCEPTABLE. CONTRACTOR TO MAKE ANY CHANGES REQUIRED BY ELECTRICAL STUDIES.

1 PANEL SCHEDULES
NOT TO SCALE



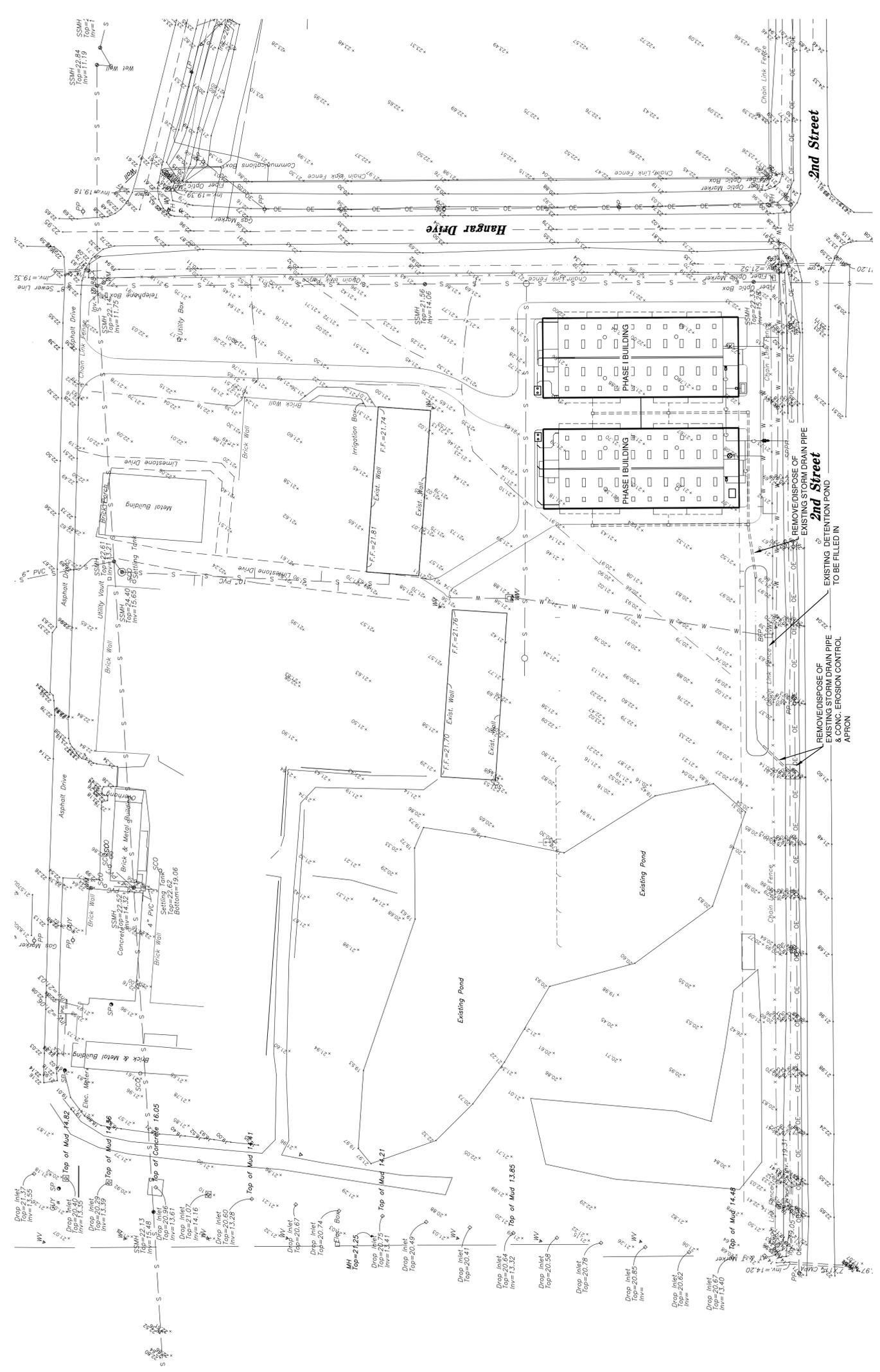
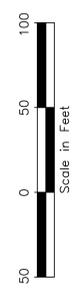
THOMASSEE ASSOCIATES
LIMITED LIABILITY COMPANY



4/11/25
STATE OF LOUISIANA
CLIFTON A. OESTRICHER III
Reg. No. 31874
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Clifton A. Oestriecher

LEGEND (EXISTING)

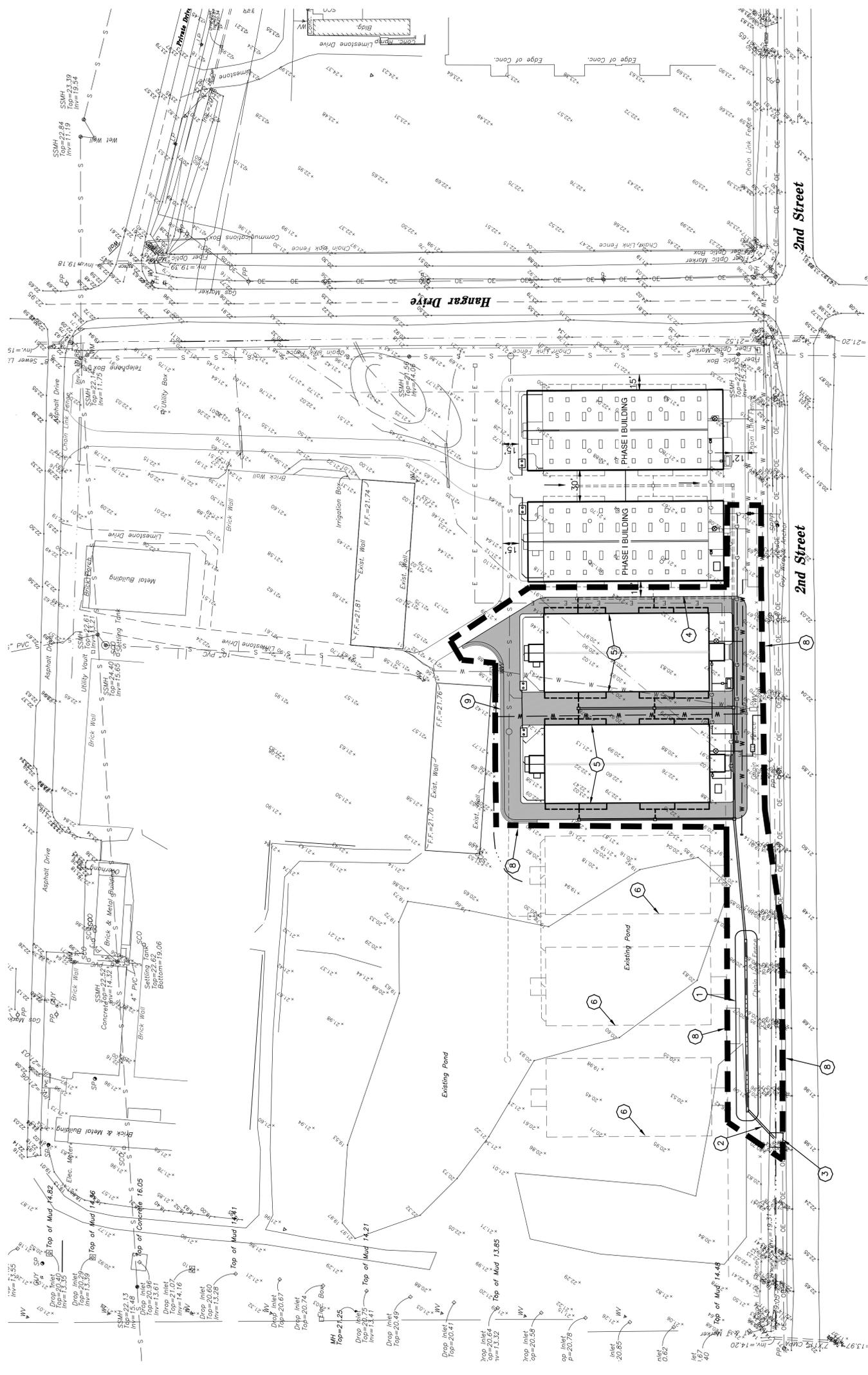
---	EXISTING R/W
---	DITCH/SWALE
T	TELEPHONE LINE
OE	OVERHEAD ELECTRICAL LINE
E	UNDERGROUND ELECTRICAL
G	GAS LINE
S	SEWER LINE
SFM	SEWER FORCE MAIN
W	WATER LINE
X	EXISTING ASPHALT PAVEMENT
WV	WATER VALVE
WM	WATER METER
FH	FIRE HYDRANT
○	TREE - OAK, PECAN, ETC.
+	SIGN
PP	POWER POLE
---	GUY WIRE/ANCHOR
LP	LIGHT POLE
TPED	TELEPHONE PEDESTAL
□	STORM SEWER MANHOLE
○	SANITARY SEWER MANHOLE
◇	GAS VALVE
□	AIR CONDITIONING UNIT

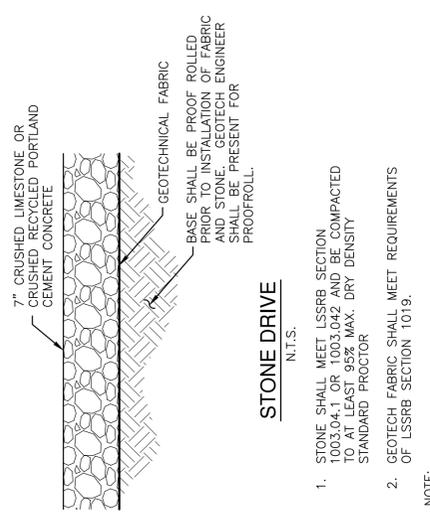




4/11/25
STATE OF LOUISIANA
CLIFTON A. OESTRIECHER III
Reg. No. 31874
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEER
Clifton A. Oestriecher III

- KEY NOTES**
- 1 PHASE II DETENTION POND
 - 2 OUTFALL PIPE
 - 3 CONCRETE EROSION CONTROL APRON
 - 4 AGGREGATE DRIVE
 - 5 PROPOSED BUILDING
 - 6 FUTURE BUILDING
 - 7 DETENTION AREA
 - 8 LIMITS OF CONSTRUCTION
 - 9 SEGMENTED BLOCK RETAINING WALL (SEE A1.2 ARCHITECTURAL PLANS)





STONE DRIVE
 N.T.S.

- STONE SHALL MEET LSSRB SECTION 1003.14.1.3.03.042 AND COMPACTED TO 98% MAX. DRY DENSITY STANDARD PROCTOR
- GEOTECH FABRIC SHALL MEET REQUIREMENTS OF LSSRB SECTION 1019.

NOTE:
 SECTION PER GEOTECH RECOMMENDATION. ALL SECTIONS AND INSTALLATION SHALL FOLLOW GEOTECH REPORT, AND SUPPLEMENTAL GEOTECHNICAL ENGINEERING REPORT DATED SEPT. 8, 2023, BY SITE ENGINEERING, INC.

STORM DRAIN PIPE KEY

- SDP10 15" x 100' SDP @ 0.20%
- SDP11 10" x 70' SDP @ 0.20%
- SDP12 10" x 70' SDP @ 0.20%
- SDP13 15" x 103' SDP @ 0.20%
- SDP14 10" x 70' SDP @ 0.20%
- SDP15 10" x 70' SDP @ 0.20%
- SDP16 15" x 110' SDP @ 0.20%
- SDP17 15" x 35' SDP @ 0.20%

KEY NOTES

- PHASE 2 DETENTION POND (20' WIDE WITH 4:1 SIDE SLOPES)
- OUTFALL PIPE
- CONCRETE EROSION CONTROL APRON
- STONE DRIVE (7" SEE DETAIL THIS SHEET)
- CONCRETE SWALE
- 7" ELECTRICAL CONDUIT (PER ELECTRICAL PLANS) SHALL BE INSTALLED BELOW STORM DRAIN FROM BUILDING AND ABOVE SEWER LINES. GENERAL CONTRACTOR SHALL COORDINATE INSTALLATION BETWEEN SUBCONTRACTORS
- QUAZITE BOX (PER ELECTRICAL PLANS) SEE ELECTRICAL DRAWINGS.
- ELECTRICAL SERVICE (SEE ELECTRICAL PLANS)
- SEGMENTED BLOCK RETAINING WALL (SEE A1.2 ARCHITECTURAL PLANS)

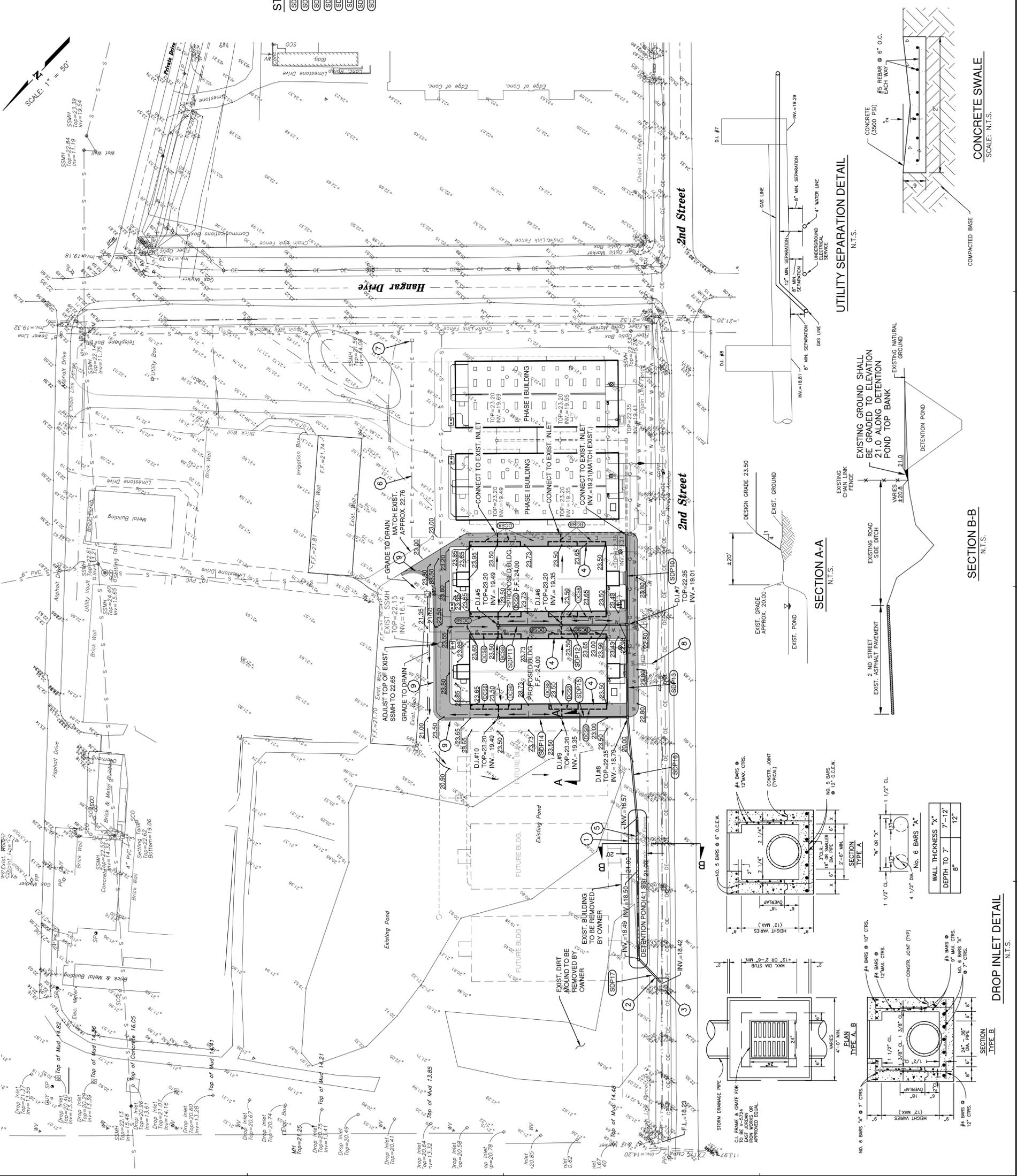
LEGEND

- 21.98/ DESIGN GRADES - TOP OF PAVEMENT or FINISHED GRADE
- 30.00/ DESIGN GRADES - TOP OF CURB/SIDEWALKS
- 29.50/ EXISTING GRADES
- DRAINAGE FLOW ARROWS
- CCS8/ DOWNSPOUT COLLECTION SYSTEM 8" (SDR35)
- DOWNSPOUT COLLECTION SYSTEM PIPE ALL 8" (SDR35) UNLESS OTHERWISE NOTED
- STONE DRIVE

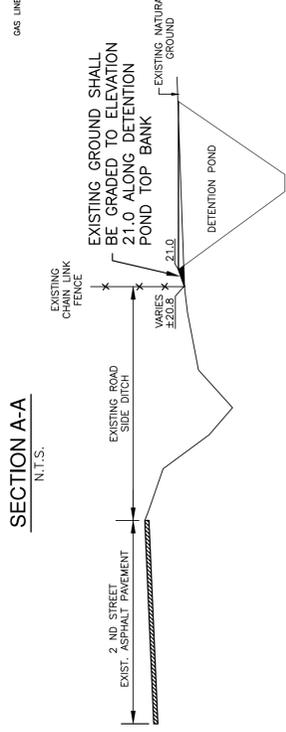
INLET CONNECTION NOTE
 ALL EXISTING INLETS SHALL BE CORED WHEN CONNECTING STORM DRAIN TO INLET.



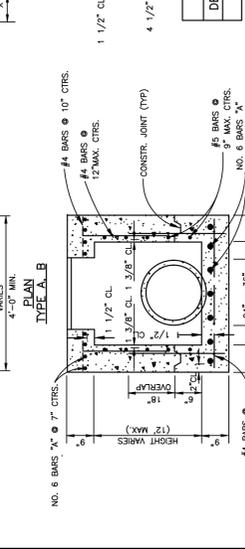
Ronkartz-Oestriecher
 A Professional Engineering Corporation
 1919B Dulles Drive
 Lafayette, Louisiana 70506
 Ph: (337) 991-9290
 Fax: (337) 991-9291



SECTION A-A
 N.T.S.



SECTION B-B
 N.T.S.



SECTION A-A
 N.T.S.



SECTION B-B
 N.T.S.

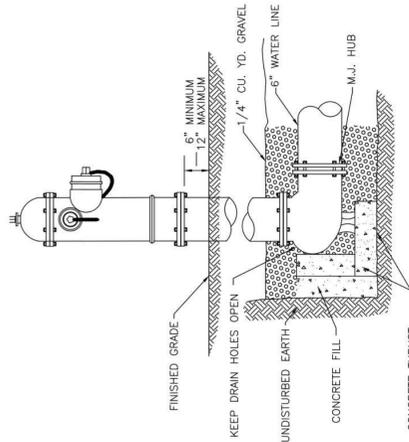


CONCRETE SWALE
 SCALE: N.T.S.

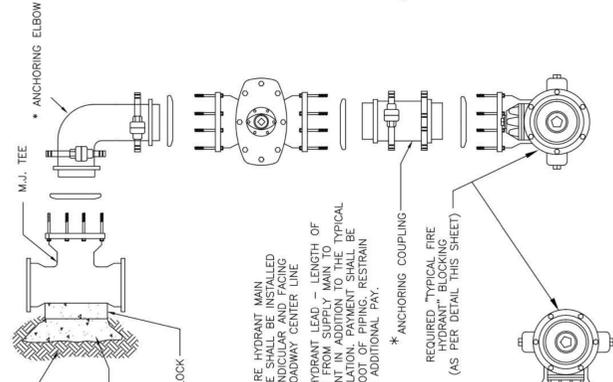
EXISTING GROUND SHALL BE GRADED TO ELEVATION 21.0 ALONG DETENTION POND TOP BANK

EXIST. BUILDING TO BE REMOVED BY OWNER

EXIST. DIRT MOUND TO BE REMOVED BY OWNER



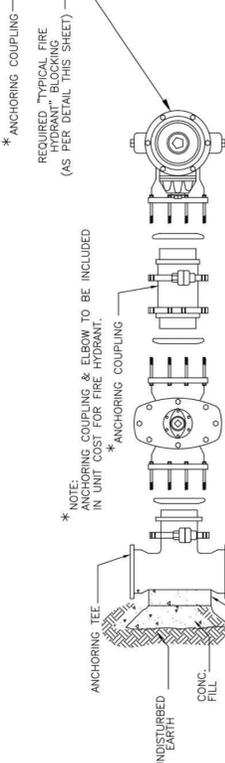
TYPICAL FIRE HYDRANT



TYPICAL FIRE HYDRANT INSTALLATION - M.J.J.

THE FIRE HYDRANT MAIN SHALL BE PERPENDICULAR AND FACING THE ROADWAY CENTER LINE
FIRE HYDRANT LEAD - LENGTH OF PIPING FROM SUPPLY MAIN TO HYDRANT IN ADDITION TO THE TYPICAL RESTRAINT SHALL BE PROVIDED PER FOOT OF PIPING. RESTRAINT AT NO ADDITIONAL PAY.

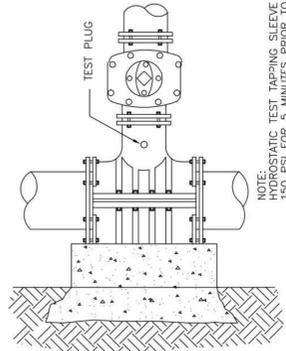
* NOTE: ANCHORING COUPLING & ELBOW TO BE INCLUDED IN UNIT COST FOR FIRE HYDRANT.



TYPICAL FIRE HYDRANT INSTALLATION - M.J.J.

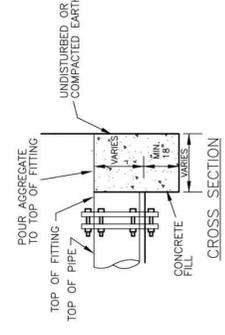
PIPE PLUG OR 90° BEND SIZE	45° BEND	22-1/2° BEND	TEE
6"	3	2	1.5
8"	5	2.5	2
10"	7	4	3
12"	10	6	5
16"	14	8	7
18"	18	12	9
			14

THRUST BLOCK BEARING AREA IN SQUARE FEET

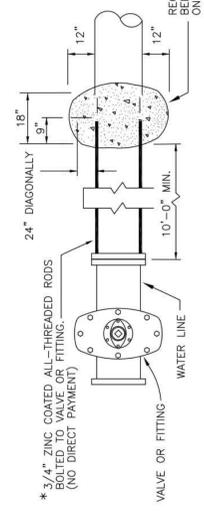


NOTE: HYDROSTATIC TEST TAPPING SLEEVE AT 150 PSI FOR 5 MINUTES PRIOR TO TAPPING

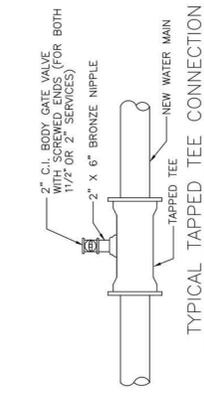
TYPICAL TAPPING SLEEVE & VALVE



CROSS SECTION

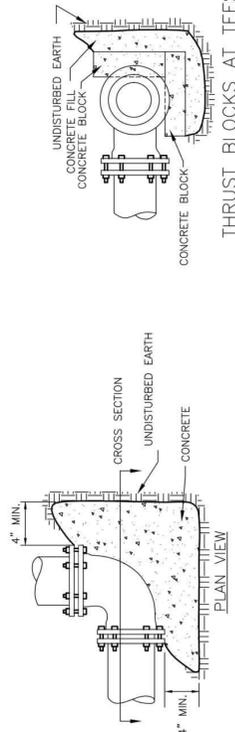


TYPICAL DETAIL FOR DEADMAN ASSEMBLY



* 3/4" ZINC COATED ALL-THREAD RODS
PIPE SIZE NO. RODS REQ'D.
6" & 8" 2
10" TO 12" 4
14" TO 18" 6
20" TO 30" 8

TYPICAL TAPPED TEE CONNECTION



TYPICAL THRUST BLOCKING FOR ALL BENDS 6" AND LARGER

GENERAL NOTES

- NO VALVE SHALL BE OPERATED TO ALLOW WATER TO BE TRANSMITTED FROM A LAFAYETTE UTILITIES SYSTEM SOURCE WITHOUT THE DIRECT SUPERVISION OF LUS. VIOLATORS WILL BE PROSECUTED.
- ALL VALVE BOXES SHALL BE INSTALLED TO MATCH THE FINISHED ELEVATION/GRADE.
- ALL VALVE BOXES SHALL BE INSTALLED TO MATCH THE FINISHED ELEVATION/GRADE.
- ALL FITTINGS, VALVES AND FIRE HYDRANTS MUST BE SUPPORTED BY CONCRETE BLOCKS. (SEE SPECIFICATIONS FOR CONCRETE OR OTHER INTERFERENCES).
- BOIDS MUST BE OPERABLE (FREE OF CONCRETE OR OTHER INTERFERENCES).
- ALL FITTINGS, VALVES AND FIRE HYDRANTS, PIPE AND SERVICE TUBING SHALL BE INSTALLED TO THE CURRENT LAFAYETTE UTILITIES SYSTEM'S SPECIFICATIONS.
- RETNERS ARE REQUIRED ON ALL FITTINGS (I.E. RODS, THRUST BLOCKS, BELL JOINT RESTRAINTS AND RETAINER GLANDS).
- ALL CONCRETE BLOCKS MUST BE A MINIMUM SIZE OF 16" X 16" X 4".
- ALL INSTALLATIONS STANDARDS/METHODS NOT SPECIFICALLY STATED IN THE CURRENT LAFAYETTE UTILITIES SYSTEM'S SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT LAFAYETTE UTILITIES SYSTEM'S MANUFACTURER STANDARDS.

DATE	7/10/96	SCALE	NIS
DESIGNED BY		DRAWN BY	TRR
CHECKED BY		APPROVED BY	BC
PROJECT NO.	0225	DWG NO.	WDETI
DATE	APR 11, 2025	SHEET	1 OF

TYPICAL WATER DETAIL

LAFAYETTE UTILITIES SYSTEM ENGINEERING DIVISION
LAFAYETTE, LA

DATE	REV.	DESCRIPTION
5/26/99	5/26/99	TYPICAL STREET REPAIR CONCRETE
2/24/15	2/24/15	TYPICAL TAPPING SLEEVE & VALVE
10/10/22	A	DRD DOT

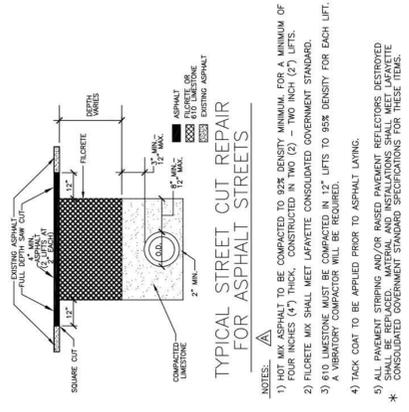


Clifton A. Oestriecher III
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEER
STATE OF LOUISIANA
CLIFTON A. OESTRIECHER III
Reg. No. 31874
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEER
STATE OF LOUISIANA

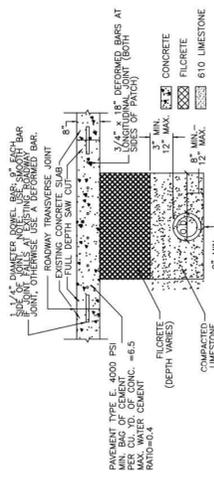


Ronkartz-Oestriecher
A Professional Engineering Corporation
1919B Dulles Drive
Lafayette, Louisiana 70506
Ph: (337) 991-9290
Fax: (337) 991-9291

4/11/25
 STATE OF LOUISIANA
 CLIFTON A. OESTRIECHER III
 REG. NO. 31874
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL ENGINEERING
 [Signature]

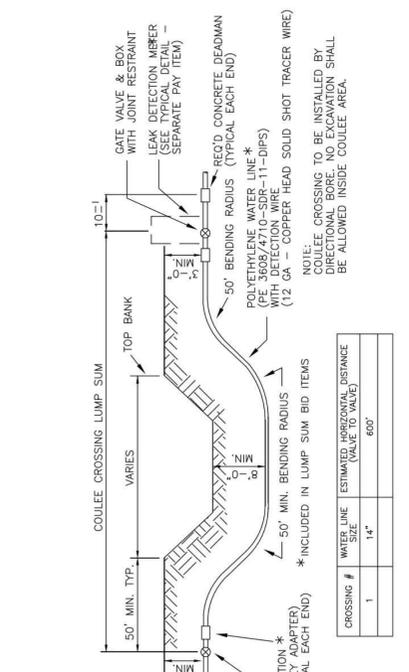


- TYPICAL STREET CUT REPAIR FOR ASPHALT STREETS**
- NOTES:
- 1) HOT MIX ASPHALT TO BE COMPACTED TO 92% DENSITY MINIMUM FOR A MINIMUM OF FOUR INCHES (4") THICK, CONSTRUCTED IN TWO (2) - TWO INCH (2") LIFTS.
 - 2) FLICRE MIX SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD.
 - 3) 610 LIMESTONE MUST BE COMPACTED IN 12" LIFTS TO 95% DENSITY FOR EACH LIFT. A VIBRATORY COMPACTOR WILL BE REQUIRED.
 - 4) TACK COAT TO BE APPLIED PRIOR TO ASPHALT LAYING.
 - 5) ALL PAVEMENT STRIPING AND/OR BASED PAVEMENT REFLECTORS DESTROYED SHALL BE REPLACED. MATERIAL AND INSTALLATIONS SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD SPECIFICATIONS FOR THESE ITEMS.



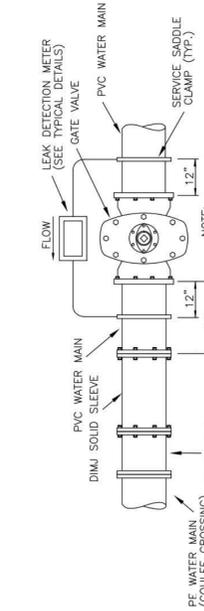
- TYPICAL STREET REPAIR FOR UTILITY LINE REHABILITATION FOR CONCRETE STREETS**
- NOTES:
- 1) EXISTING CONCRETE MUST BE DRILLED & DOWELED BEFORE NEW CONCRETE IS POURED. DOWEL BARS AT TRANSVERSE JOINTS SHALL BE 1/2" DIA. LONG WITH 6" DEVELOPMENT INTO EXISTING CONCRETE. DOWEL BARS AT LONGITUDINAL JOINTS SHALL BE 1/2" DIA. LONG WITH 6" DEVELOPMENT INTO EXISTING CONCRETE. OTHERWISE, USE DEFORMED DOWEL BARS. DOWEL BARS AT LONGITUDINAL JOINTS MUST BE 3/4" IN CENTER ALONG LONGITUDINAL SIDES OF STREET CUT PATCH. MUST BE 18" ON CENTER ALONG LONGITUDINAL SIDES OF STREET CUT PATCH.
 - 2) CONCRETE TEST CYLINDERS SHALL BE MADE BY THE CONTRACTOR OR TESTING LABORATORY AT THE GOVERNMENT FIELD WORKS DEPARTMENT. TRAFFIC MAY BE PUT ON CONCRETE PATCH WHEN PSI STRENGTH IS REACHED.
 - 3) A BROAD FINISH IS REQUIRED AND CONCRETE CURED BY AN APPROVED METHOD.
 - 4) FLICRE WITH EXISTING REBAR SHALL BE USED UNLESS OTHERWISE SPECIFIED BY GOVERNMENT STANDARDS AND SHALL BE POURED.
 - 5) ALL NEW JOINTS SHALL CONFORM TO THE EXISTING JOINTS.
 - 6) 610 LIMESTONE MUST BE COMPACTED IN 12" LIFTS TO 95% DENSITY FOR EACH LIFT. A VIBRATORY COMPACTOR WILL BE REQUIRED.
 - 7) MATERIAL AND INSTALLATION SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD SPECIFICATIONS FOR THESE ITEMS.

- GENERAL NOTES**
1. NO VALVE SHALL BE OPERATED TO ALLOW WATER TO BE TRANSMITTED FROM A LAFAYETTE UTILITIES SYSTEM SOURCE WITHOUT THE DIRECT SUPERVISION OF LUS. INDICATORS WILL BE PROSECUTED.
 2. ALL VALVE BOXES SHALL BE INSTALLED TO MATCH THE FINISHED ELEVATION/GRADE.
 3. ALL VALVE BOXES SHALL BE INSTALLED TO MATCH THE FINISHED ELEVATION/GRADE.
 4. THROTTLES BY PVC'S AND FIRE HYDRANTS MUST BE SUPPORTED INTERFERENCES).
 5. BOLTS MUST BE OPERABLE (FREE OF CONCRETE OR OTHER INTERFERENCES).
 6. ALL FITTINGS, VALVES AND AND FIRE HYDRANTS, PIPE AND SERVICE CONNECTIONS SHALL CONFORM TO THE CURRENT LAFAYETTE UTILITIES SYSTEMS SPECIFICATIONS.
 7. RETAINERS ARE REQUIRED ON ALL FITTINGS (I.E. ROOS, THRUST BLOCKS, BELL JOINT RESTRAINTS AND RETAINER GLANDS).
 8. ALL ORDER BLOCKS TO BE USED A MINIMUM SIZE OF 16" x 16" x 4".
 9. ALL INSTALLATIONS STANDARDS/METHODS NOT SPECIFICALLY STATED IN THE CURRENT LAFAYETTE UTILITIES SYSTEMS SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE STANDARD OF JURISDICTION (MHA, NFPA, MANUFACTURER STANDARDS).



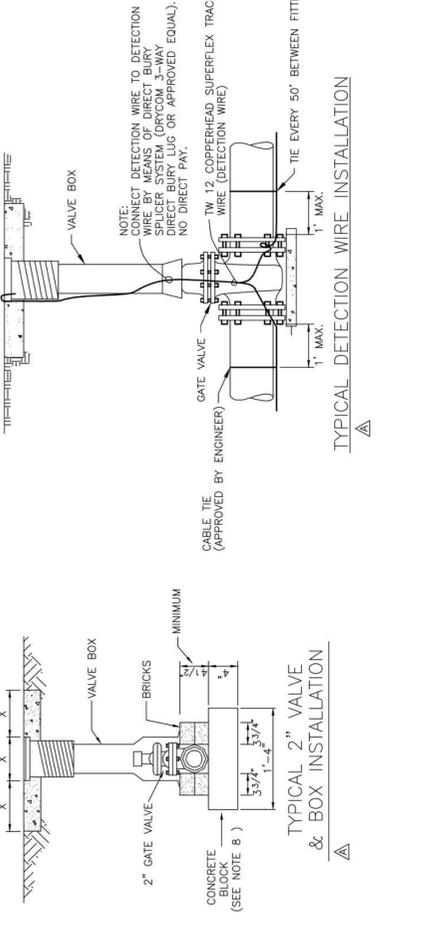
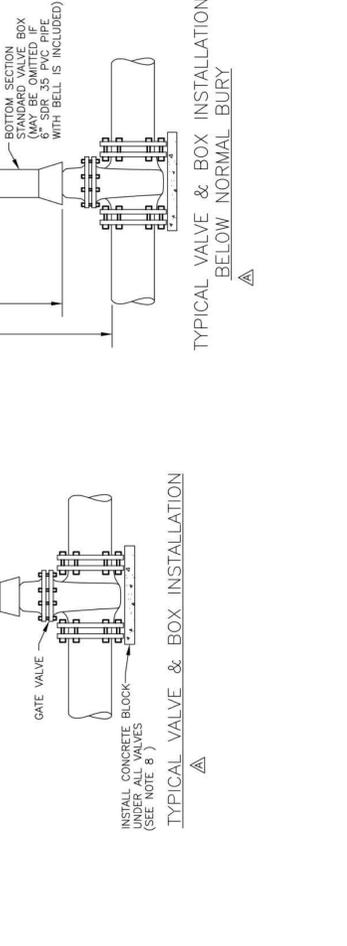
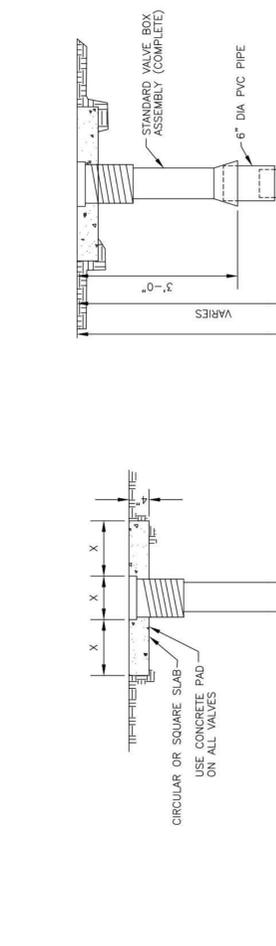
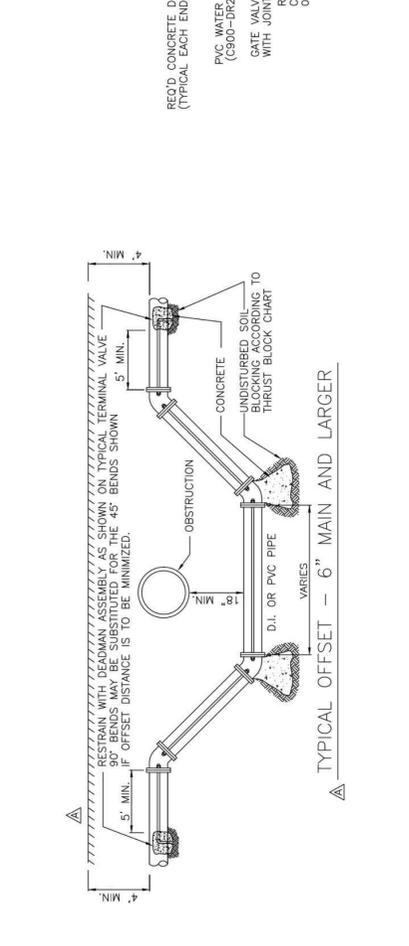
TYPICAL LEAK DETECTION METER LAYOUT

CROSSING #	WATER LINE SIZE (VALUE TO VALVE)	ESTIMATED HORIZONTAL DISTANCE (VALUE TO VALVE)
1	14"	600'



TYPICAL THRUST BLOCKING FOR ALL BENDS 6" AND LARGER

PIPE SIZE	THRUST BLOCK BEARING AREA IN SQUARE FEET	TEE
6"	45' BEND	3
8"	22-1/2' BEND	4
10"	15'	5
12"	10'	7
14"	6'	10
16"	4'	14



DATE	REV.	DESCRIPTION
5/26/99	5/26/99	TYPICAL STREET REPAIR CONCRETE
2/24/15	2/24/15	TYPICAL TAPPING SLEEVE & VALVE
10/10/22	A	DR0 001

TYPICAL WATER DETAIL

DATE	7/10/96	SCALE	N.T.S.
DESIGNED BY	CLIFTON A. OESTRIECHER III	DRAWN BY	T.R.R.
CHECKED BY	APPROVED BY	DWG NO.	WOE12
REGISTERED TO JOB	10/10/22	SHEET	2 OF
DATE	7/10/96		
BY	T.R.R.		
DATE	2/24/15		
BY	T.R.R.		
DATE	2/24/15		
BY	T.R.R.		

LAFAYETTE UTILITIES SYSTEM ENGINEERING DIVISION
 LAFAYETTE, LA

TYPICAL WATER DETAIL

