

SIZE:
EXISTING BUILDING: 4,565 SF
PROPOSED ADDITION: 4,268 SF
TOTAL: 8,833 SF

LOW COST ANIMAL MEDICAL CENTER

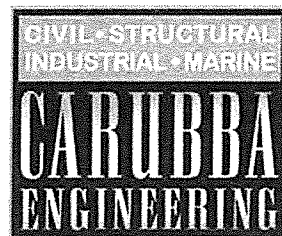
PROPOSED ADDITION
4300 WASHINGTON AVE, NEW ORLEANS, 70125

PREPARED BY:
COPEY PULTZER
DANIEL TIGHE
SEAN TICHENOR

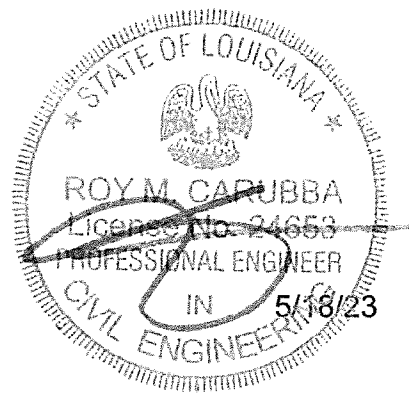


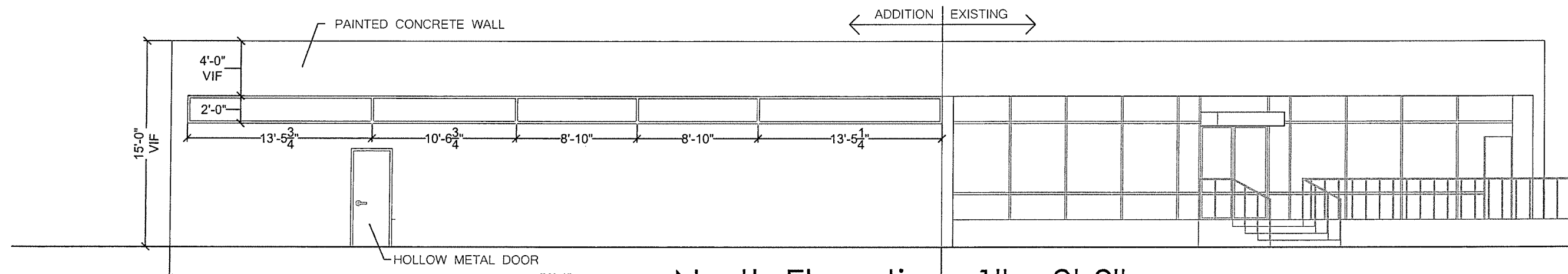
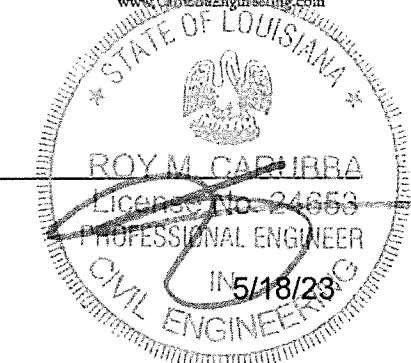
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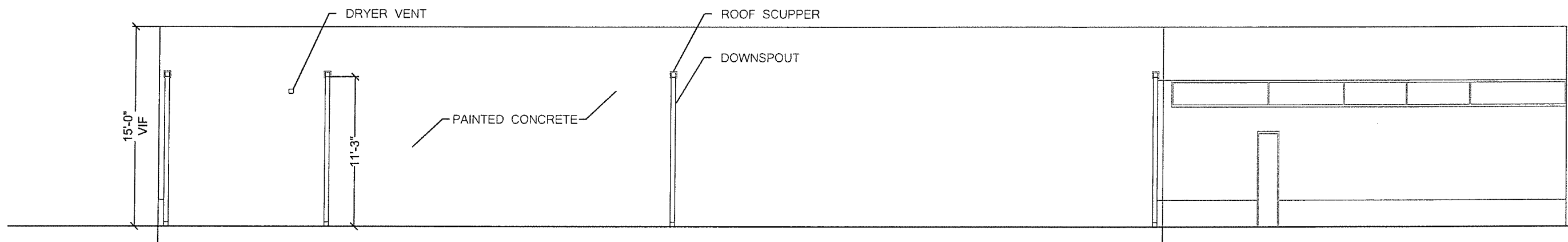


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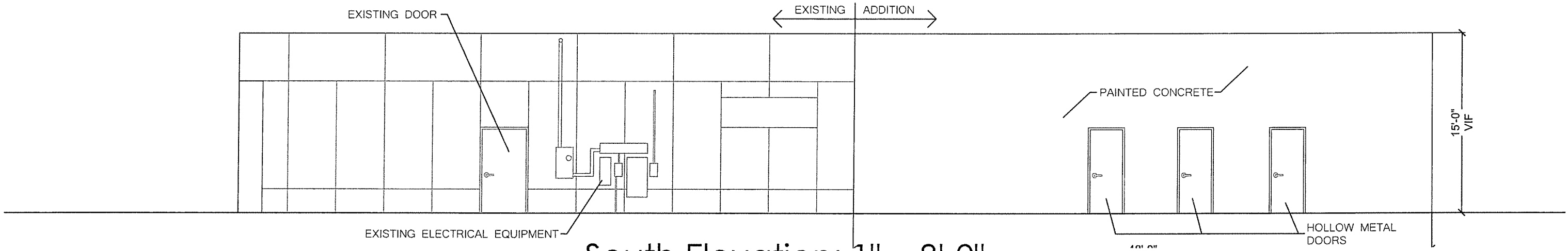




North Elevation: 1" = 8'-0"



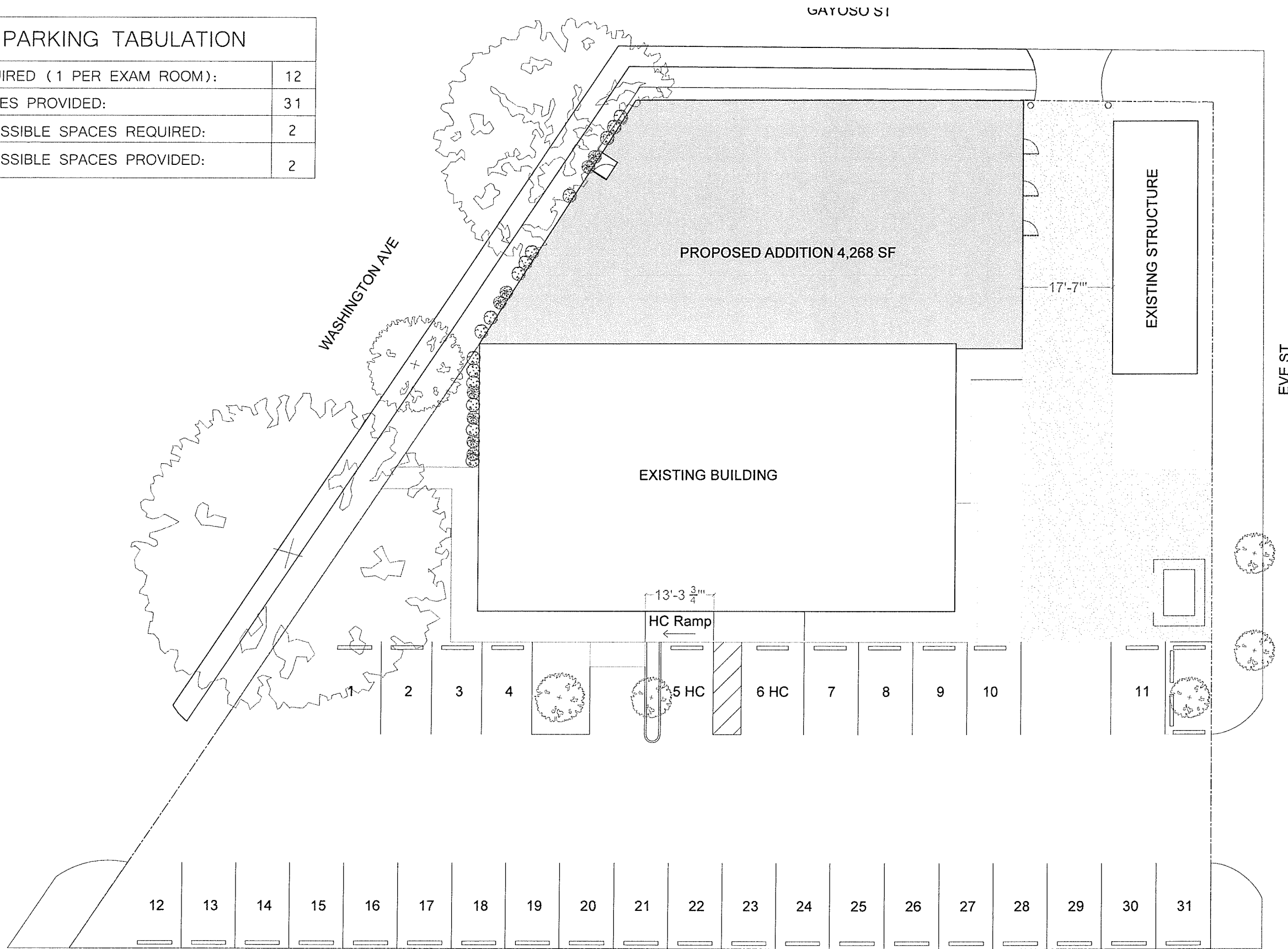
East Elevation: 1" = 8'-0"



South Elevation: 1" = 8'-0"

Low Cost Animal Center
Elevations: 1" = 8'-0"

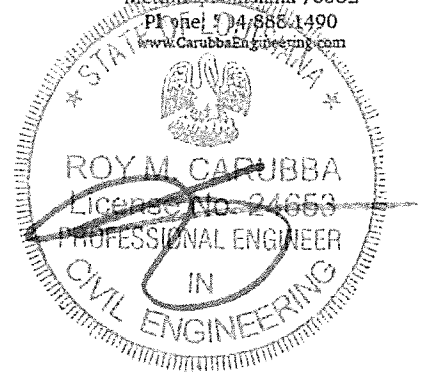
PARKING TABULATION	
REQUIRED (1 PER EXAM ROOM):	12
SPACES PROVIDED:	31
ACCESSIBLE SPACES REQUIRED:	2
ACCESSIBLE SPACES PROVIDED:	2



CIVIL - STRUCTURAL
INDUSTRIAL - MARINE

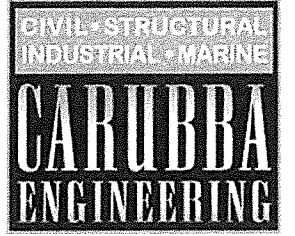
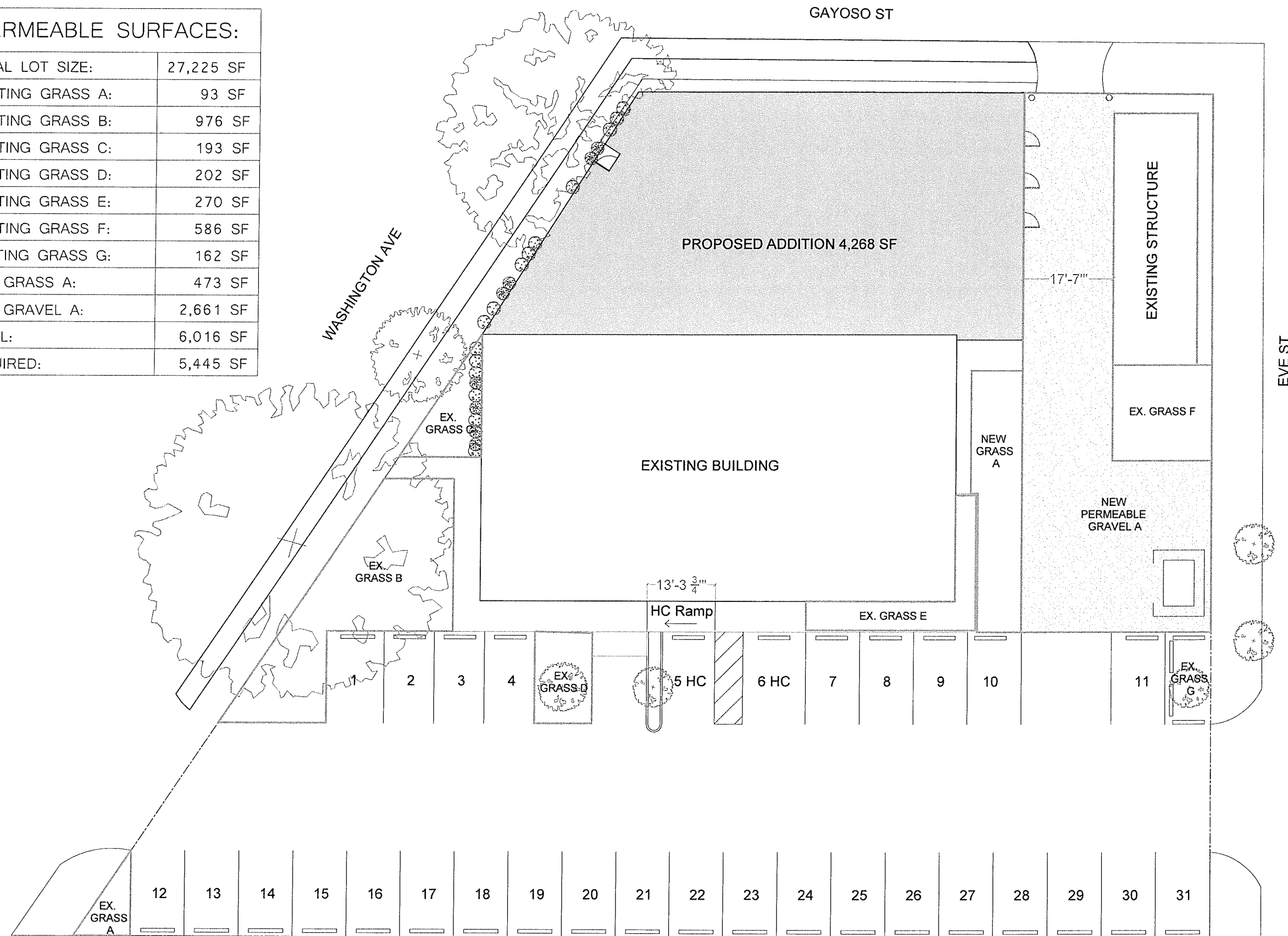
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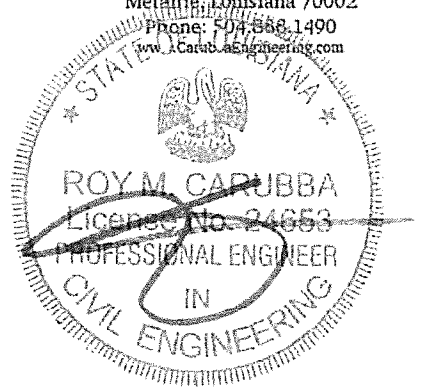


Low Cost Animal Center
Site Plan: 1" = 20'-0"

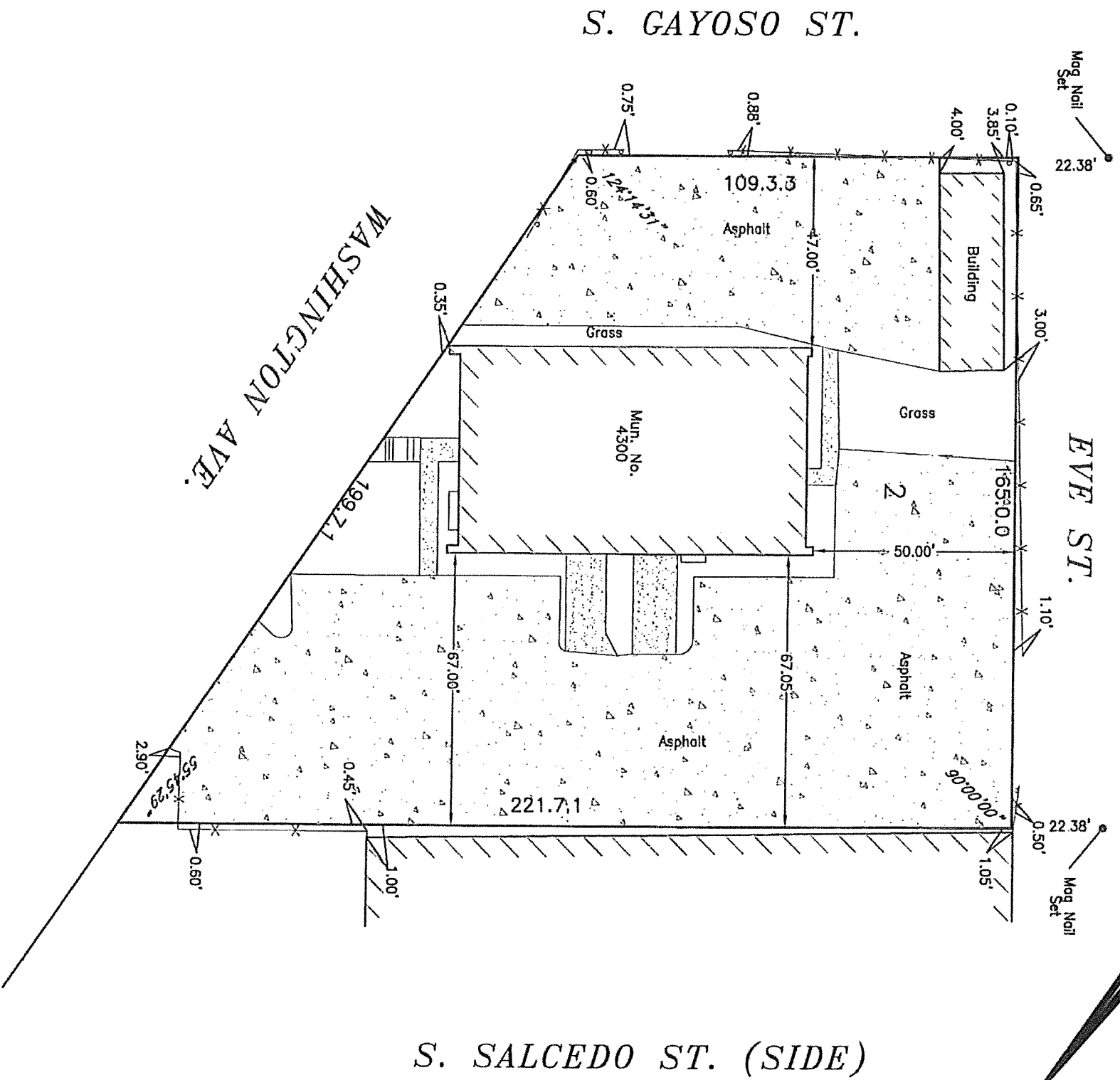
PERMEABLE SURFACES:	
TOTAL LOT SIZE:	27,225 SF
EXISTING GRASS A:	93 SF
EXISTING GRASS B:	976 SF
EXISTING GRASS C:	193 SF
EXISTING GRASS D:	202 SF
EXISTING GRASS E:	270 SF
EXISTING GRASS F:	586 SF
EXISTING GRASS G:	162 SF
NEW GRASS A:	473 SF
NEW GRAVEL A:	2,661 SF
TOTAL:	6,016 SF
REQUIRED:	5,445 SF



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Low Cost Animal Center
 Permeable Surfaces: 1" = 20'-0"



NOTE:
Improvements may not be to scale for clarity. The dimensions shown prevail over scale.

SURVEY REFERENCE: SQUARE NO. 154, MACARTY SUBD., SIXTH DISTRICT BY J.C. GANDOLFO, JR. DATED JANUARY 3, 1972

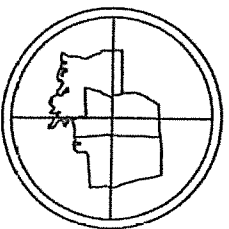
ANGLE BASIS: TAKEN FROM REFERENCED SURVEY

SURVEY OF LOT 2
SQUARE 154
MACARTY SUBDIVISION
SIXTH DISTRICT
CITY OF NEW ORLEANS
ORLEANS PARISH, LOUISIANA

CRESCENT TITLE, LLC &
PAWS, LLC

P.O. BOX 790
METAIRIE, LA. 70004
(504) 834-0200

SURVEYOR



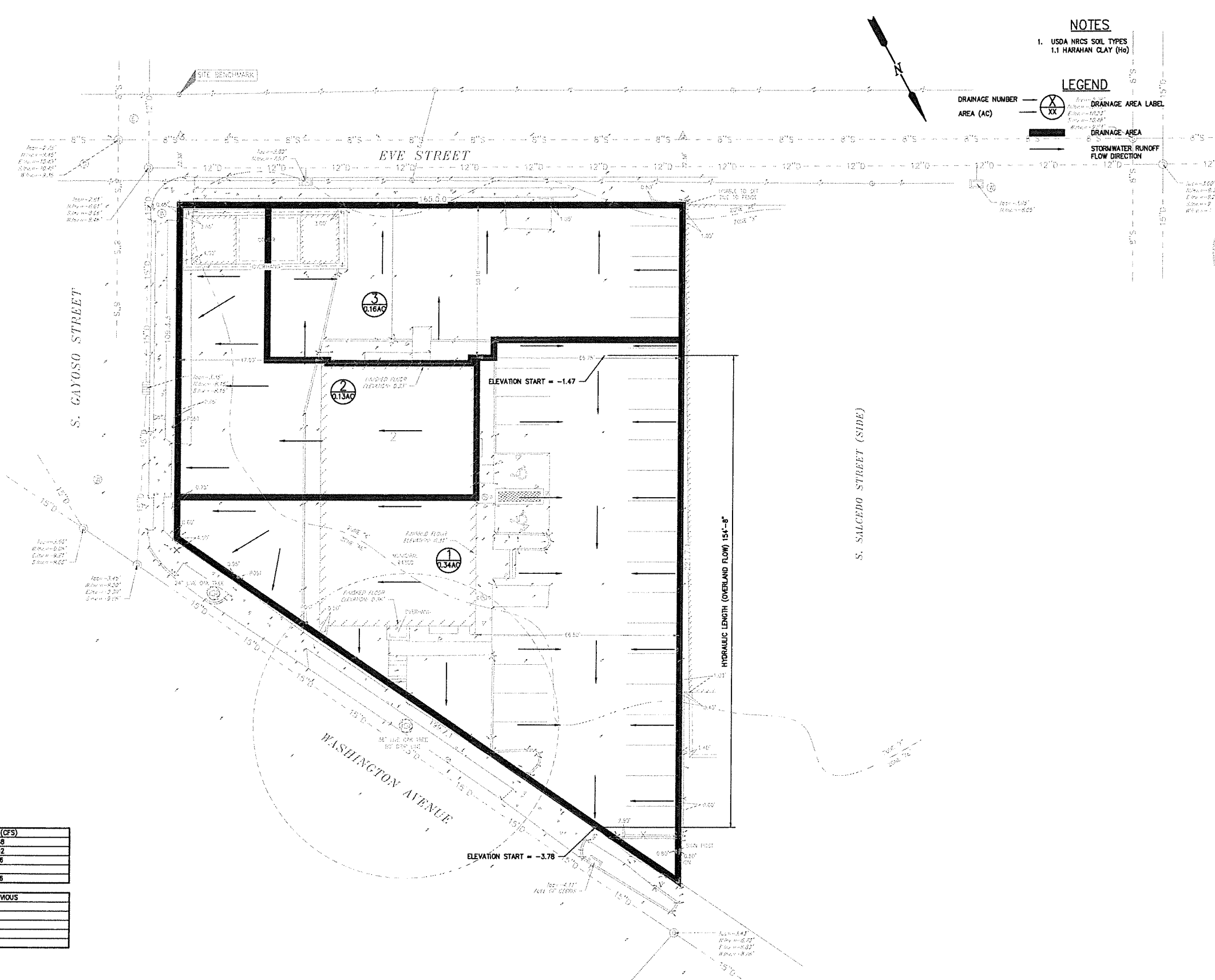
DADING, MARQUES &
ASSOCIATES, LLC

I CERTIFY THAT THIS SURVEY AND PLAT WAS PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION, MADE AT THE REQUEST OF:

THE SERVITUDES AND RESTRICTIONS SHOWN ON THIS SURVEY ARE LIMITED TO THOSE SET FORTH IN THE DESCRIPTION FURNISHED US AND THERE IS NO REPRESENTATION THAT ALL APPLICABLE SERVITUDES AND RESTRICTIONS ARE SHOWN HEREON. THE SURVEYOR HAS MADE NO TITLE SEARCH OR PUBLIC RECORD SEARCH IN COMPILING THE DATA FOR THIS SURVEY.

THIS PLAT IS CORRECT AND IN ACCORDANCE WITH A PHYSICAL SURVEY MADE ON THE GROUND UNDER THE DIRECTION OF THE LOUISIANA'S "STANDARDS OF PRACTICE FOR BOUNDARY SURVEYS" FOR A CLASS "C" SURVEY

DATE:	SCALE:	DRAWN BY:	CHECKED BY:	JOB NO.:	PLAT No.:
9-29-2015	1" = 40'	B.D.	C.A.D.	53501	D-214-131



NOTES
 1. USDA NRCS SOIL TYPES
 1.1 HARAHAN CLAY (Hc)

LEGEND



EXISTING DRAINAGE PLAN
 SCALE: 1/16"=1'-0"

POST-CONSTRUCTION SITE CONDITIONS (10-YR):
 TIME OF CONCENTRATION 4.736 MIN.
 $I = a(D+b)^c$

a	D (hrs)	b	c
4.016	0.079	0.347	-0.828

RUNOFF COEFF. (GRASS)	0.35
RUNOFF COEFF. (ROOF)	0.95
RUNOFF COEFF. (PAVING)	0.99

DA. NO.	GRASS (SF)	ROOF (SF)	PAVING (SF)	TOTAL (SF)	C	I (IN/HR)	A (ACRE)	Q (CFS)
1	1750	2159	10779	14688	0.91	8.127394	0.337	2.488
2	592	2640	2413	5645	0.90	8.127394	0.130	0.952
3	1741	399	4834	6964	0.63	8.127394	0.160	1.076
TOTAL	4083	5188	18026	27297	0.89	8.127394	0.627	4.516

	TOTAL (SF)	PERVIOUS AREA (SF)	NON-PERVIOUS AREA (SF)	PERCENT OF PERVIOUS
1	14688	1750	12938	11.91%
2	5645	592	5053	10.49%
3	6964	1741	5223	25.00%
TOTAL	27297	4083	23214	14.96%

FOR APPROVAL	DESCRIPTION	DATE	BY
		05/15/2023	MTD

STATE OF LOUISIANA
 ROY M. CARUBBA
 PROFESSIONAL ENGINEER
 CIVIL ENGINEERING

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LOUISIANA

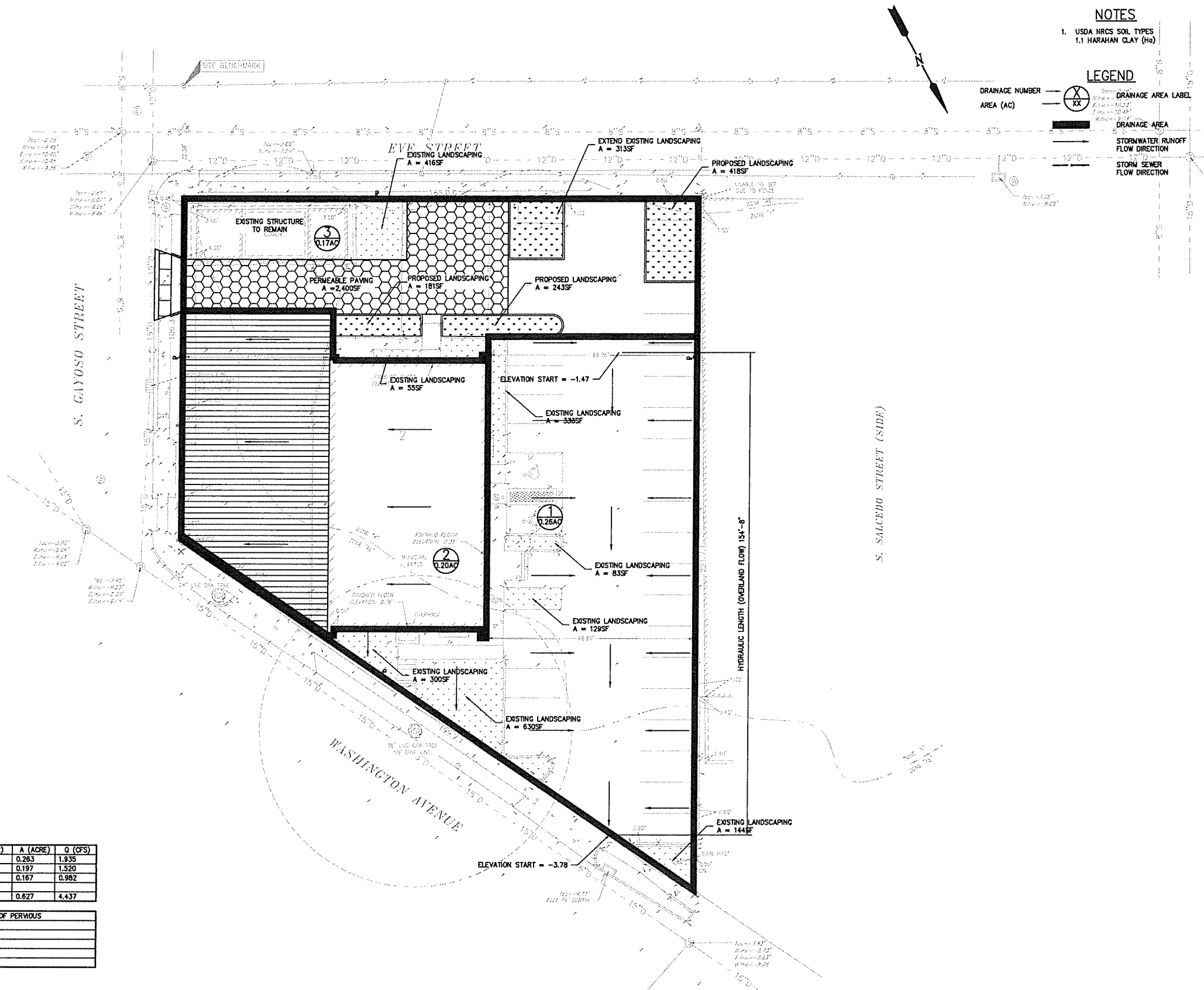
SIDNEY PULTIZER JR
 PROPOSED ADDITION
 4300 WASHINGTON AVENUE
 EXISTING DRAINAGE PLAN

NEW ORLEANS

DRAWN
 RJR
 CHECKED
 MTD
 DATE
 05/15/2023
 CEI PROJECT NO.
 2022-161

SHEET
C0.1

30th ANNIVERSARY 1993-2023
 CARUBBA ENGINEERING
 CIVIL STRUCTURAL



NOTES
 1. USDA NRCS SOIL TYPES
 1.1 HARAHAN CLAY (Hc)

LEGEND
 DRAINAGE NUMBER
 AREA (AC)
 DRAINAGE AREA LABEL
 DRAINAGE AREA
 STORMWATER RUNOFF FLOW DIRECTION
 STORM SEWER FLOW DIRECTION

POST-CONSTRUCTION SITE CONDITIONS (10-YR):
 TIME OF CONCENTRATION 4.736 MIN.

I = a(D+b) ^c			
a	D (hr)	b	c
4.016	0.078	0.347	-0.826

RUNOFF COEFF. (GRASS)	0.35
RUNOFF COEFF. (ROOF)	0.95
RUNOFF COEFF. (PAVING)	0.99
RUNOFF COEFF. (AGGREGATE)	0.66

DA. NO.	GRASS (SF)	ROOF (SF)	PAVING (SF)	AGGREGATE (SF)	TOTAL (SF)	C	I (IN/HR)	A (ACRE)	Q (CFS)
1	1516	0	9941	0	11457	0.91	8.127394	0.263	1.935
2	0	8573	0	0	8573	0.95	8.127394	0.197	1.520
3	1729	777	2361	2400	7267	0.72	8.127394	0.167	0.982
TOTAL	3245	9350	12302	2400	27297	0.87	8.127394	0.627	4.437

	TOTAL (SF)	PERVIOUS AREA (SF)	NON-PERVIOUS AREA (SF)	PERCENT OF PERVIOUS
1	11457	1516	9941	13.23%
2	8573	0	8573	00.00%
3	7267	4729	2848	65.07%
TOTAL	27297	6245	21362	22.88%

PROPOSED DRAINAGE PLAN
 SCALE: 1/16"=1'-0"

MTD	BY
05/15/2023	DATE
FOR APPROVAL	DESCRIPTION
A	MARK

STATE OF LOUISIANA
 ROYAL CARUBBA
 PROFESSIONAL ENGINEER
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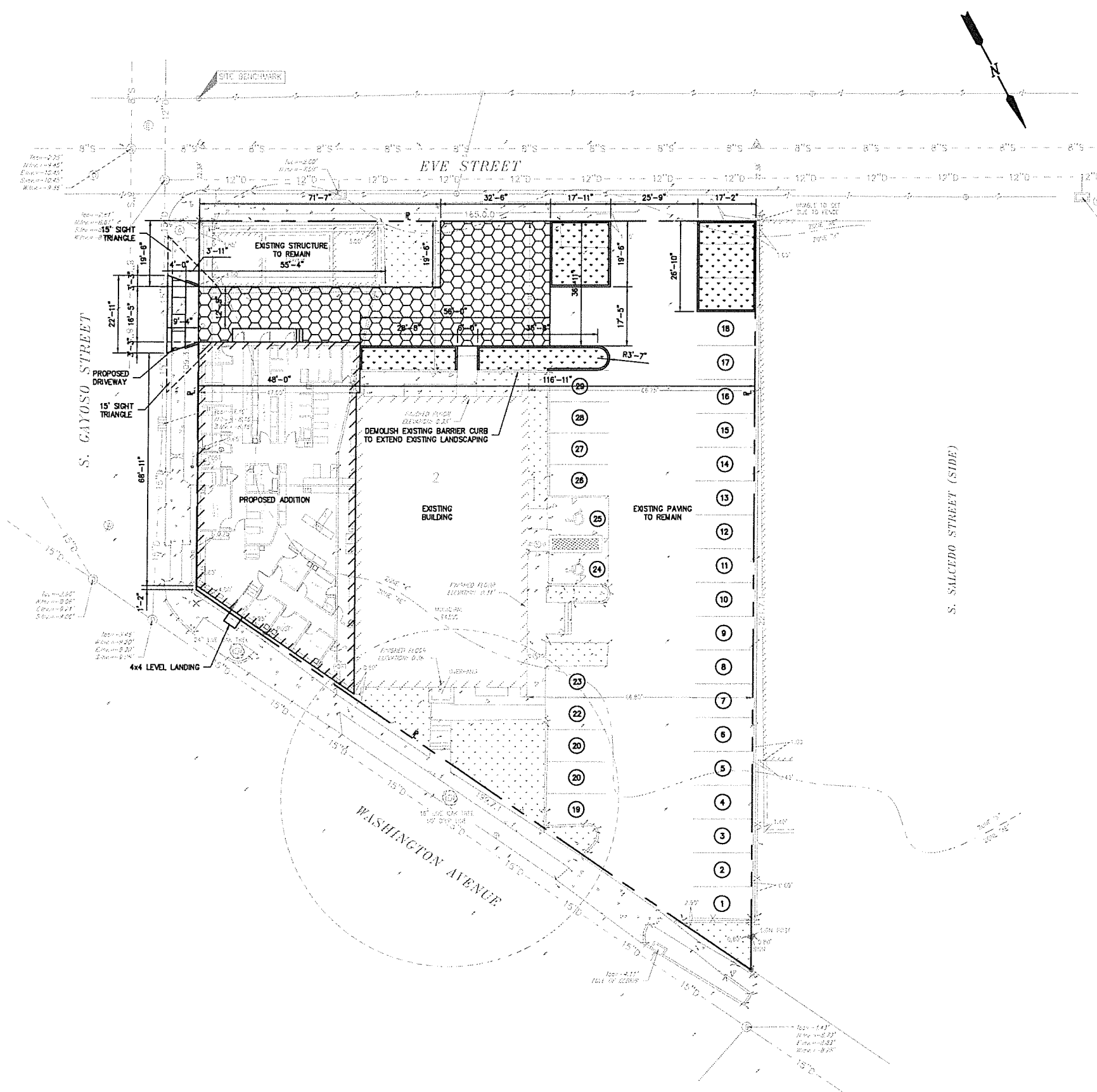
LOUISIANA
 SIDNEY PULITZER JR.
 PROPOSED ADDITION
 4300 WASHINGTON AVENUE
 PROPOSED DRAINAGE PLAN

NEW ORLEANS

DRAWN
 RJR
 CHECKED
 MTD
 DATE
 5/15/2023
 CEI PROJECT NO.
 2022-161

SHEET
C0.2

30th ANNIVERSARY
 1993-2023
 CARUBBA ENGINEERING
 30 YEARS OF STRUCTURE



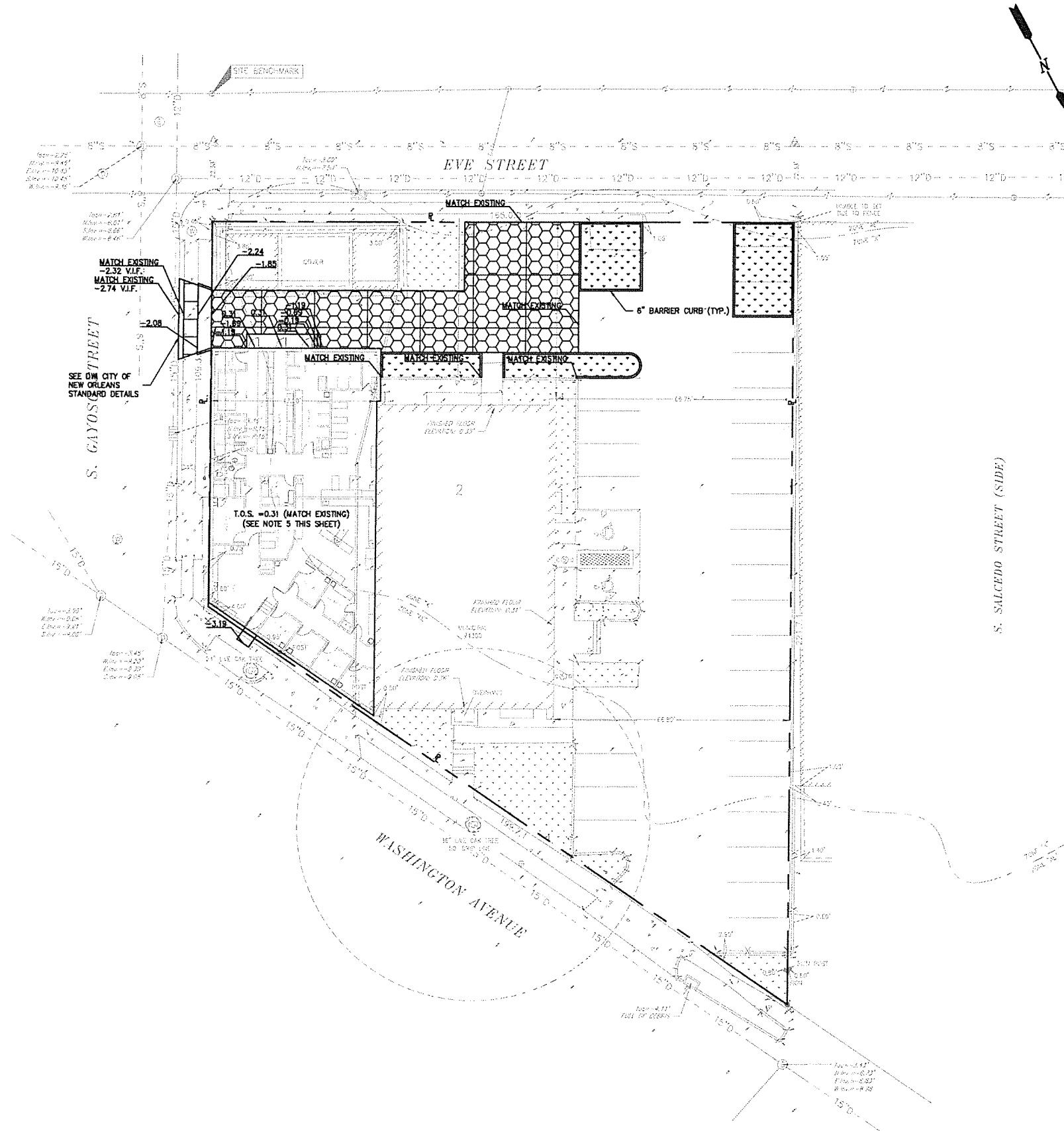
NOTES
 1. PARKING REQUIREMENTS:
 1.1. 1 SPACE PER EXAM ROOM = 12 SPACES

LEGEND	
	EXISTING ELEVATION
	6" PERVIOUS CONCRETE PAVING OR AGGREGATE GRID SYSTEM (TRUGRID OR EQUIVALENT)
	EXISTING LANDSCAPING TO REMAIN
	LANDSCAPING
	PARKING STALL #

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



FOR APPROVAL	DATE	BY
	05/15/2023	RMC
3400 Hessner Avenue Metairie, LA 70002 Phone: 504.888.1490 www.carubbaengineering.com		
LOUISIANA	SIDNEY PULTIZER JR PROPOSED ADDITION 4300 WASHINGTON AVENUE SITE PLAN	
NEW ORLEANS	DRAWN PR CHECKED RMC DATE 5/15/2023 CE PROJECT NO. 2022-161	
SHEET		C1.0

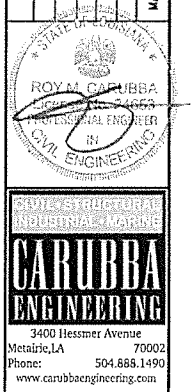


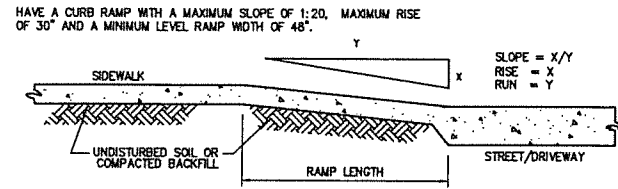
- NOTES**
- PAVING JOINTS ARE CONTROL JOINTS TYPICAL UNLESS NOTED OTHERWISE.
 - FINAL PIPE LENGTHS ARE SUBJECT TO CHANGE IN FIELD. LENGTHS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR TO DETERMINE FINAL LENGTHS DURING BID PROCESS.
 - CONTRACTOR SHALL VERIFY ALL EXISTING CATCH BASIN INVERT ELEVATIONS. IF EXISTING CONDITIONS VARY FROM DRAWING, ADJUST ACCORDINGLY AND NOTIFY ENGINEER OF RECORD OF ANY CHANGE.
 - JOINTS IN CURB TO MATCH PAVING.
 - CONTRACTOR SHALL HAVE PROFESSIONAL LAND SURVEYOR VERIFY BASE FLOOR ELEVATION AND SET TOP OF FORM PRIOR TO COMMENCEMENT OF WORK.
 - SEE ARCHITECTURAL SITE PLAN FOR PAVING GEOMETRY, (ISLANDS, PARKING STALLS, LANDSCAPING, ETC.)
 - CONTRACTOR SHALL VERIFY SITE GRADING DOES NOT DIRECT STORMWATER RUNOFF TO ADJACENT PROPERTIES.
 - ALL PERMEABLE PAVING INSTALLATIONS SHALL BE SUBJECT TO INFILTRATION TESTING AFTER INSTALLATION. TESTING SHALL BE CONDUCTED ACCORDING TO THE ASTM INTERNATIONAL C1707 OR C1781 STANDARDS, AS APPROPRIATE. ALL TYPES OF PERMEABLE PAVEMENT SHALL MAINTAIN A MINIMUM INFILTRATION RATE OF 200 INCHES PER HOUR.
 - IN ORDER TO DISCOURAGE INFILTRATION OF STORMWATER AND TO MINIMIZE THE MIGRATION OF SEDIMENTS, THE FINISHED GRADE FOR ALL LANDSCAPED AREAS SHALL BE SET 3" MINIMUM BELOW SURROUNDING HARDSCAPE CONTAINMENTS (CURBING, SIDEWALKS, FOUNDATIONS, ETC.). THIS STANDARD MAY BE WAIVED IF NECESSARY TO PROMOTE THE PRESERVATION OF TREES AS SHOWN AS SUCH.
 - PURSUANT TO BUILDING CODE SECTION 121.17; PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, POST-CONSTRUCTION CERTIFICATION INCLUDING AS-BUILT DRAWINGS, AFFIDAVIT FROM DESIGNER/S, AND PERFORMANCE BOND BASED UPON THE ACTUAL COST OF CONSTRUCTION MUST BE SUBMITTED FOR PERMIT. AFTER FINAL INSPECTION THESE DOCUMENTS MUST BE RECORDED WITH THE CIVIL DISTRICT CLERK COURT.
 - PURSUANT TO BUILDING CODE SECTION 121.13(a); PRIOR TO RELEASE FOR CONSTRUCTION THE CONTRACTOR SHALL EXECUTE A CONSTRUCTION SWPPP IN COMPLIANCE WITH BUILDING CODE SECTION 121.5 AND 121.6 AND MODELED ON DPW STANDARD SPECIFICATION SECTION C204. INCLUDE CONTACT INFORMATION (NAME, PHONE, EMAIL) FOR THE ON-SITE PERSON OR PERSONS TO BE CONTACTED IN THE EVENT OF A VIOLATION OR COMPLAINT.
 - DETENTION REQUIREMENTS:
NO DETENTION REQUIRED

LEGEND	
	EXISTING ELEVATION
	NEW ELEVATION
	DROP INLET TOC AND INVERT
	6" PERVIOUS CONCRETE PAVING OR AGGREGATE GRID SYSTEM (TRUGRID OR EQUIVALENT)

PAVING, GRADING, AND DRAINAGE PLAN
SCALE: 1/16"=1'-0"

NEW ORLEANS	LOUISIANA	DATE	BY
SIDNEY PULITZER JR PROPOSED ADDITION 4300 WASHINGTON AVENUE PAVING, GRADING, AND DRAINAGE PLAN		05/15/2023	RMC
		FOR APPROVAL	DESCRIPTION
DRAWN FR CHECKED RMC DATE 5/15/2023 CEI PROJECT NO. 2022-167 SHEET C1.1		MARK	



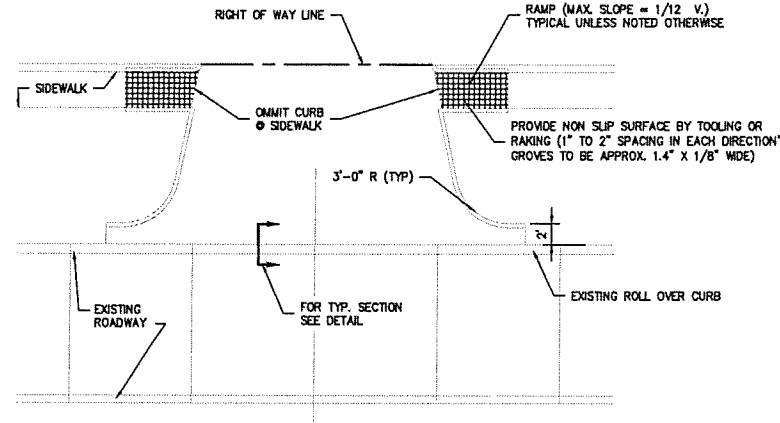


HANDICAPPED REQUIREMENTS

SCALE: NTS

NOTE:

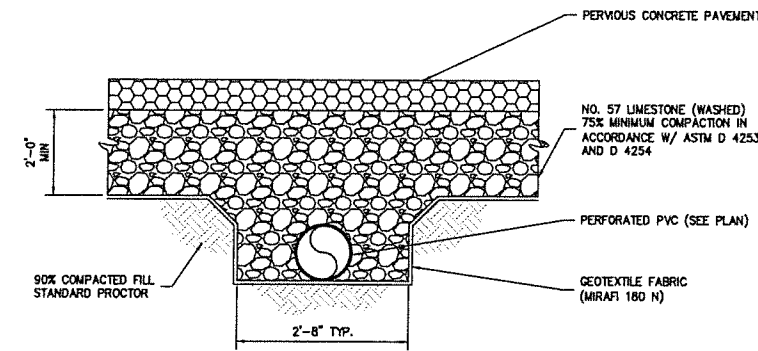
PARKING SPACES FOR PHYSICALLY HANDICAPPED PEOPLE SHALL BE AT LEAST 11' WIDE AND SHALL HAVE AN ADJACENT ACCESS AISLE 5' WIDE MINIMUM (SEE FIG. A). PARKING ACCESS AISLE SHALL BE PART OF THE ACCESSIBLE ROUTE TO THE BUILDING OR FACILITY ENTRANCE. PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE CIRCULATION ROUTE. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED FOR PHYSICALLY HANDICAPPED PEOPLE BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. SUCH SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.



PLAN OF NEW CURBED DRIVEWAY CONNECTING TO ROADWAY WITH OR WITHOUT CURBS

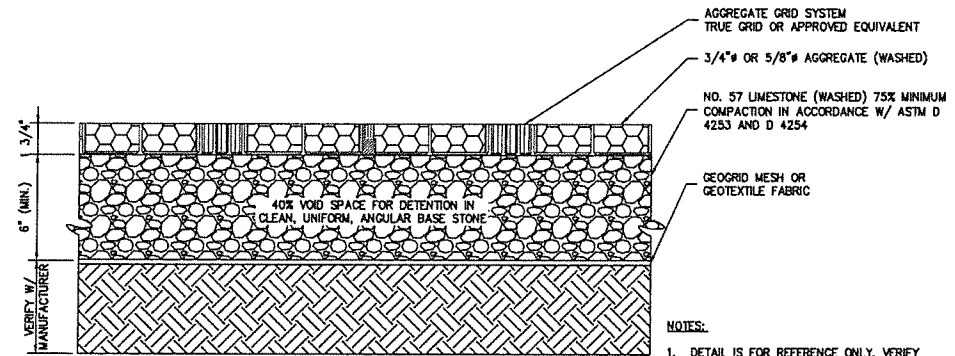
SCALE: NTS

- NOTES**
- GENERAL**
- CONTRACTOR TO VISIT SITE AND VERIFY EXISTING CONDITIONS, DIMENSIONS & GRADE ELEVATIONS.
 - FINISH GRADES SUBJECT TO CHANGE IN FIELD.
 - WORK WITHIN STREET RIGHTS OF WAY TO FOLLOW SEWERAGE AND WATER BOARD STANDARD DETAILS.
 - CONTRACTOR HAS THE OPTION TO FORM OR SAW-CUT CONTROL JOINTS IN PAVING.
 - SEE CIVIL PLAN FOR GRADING AND DRAINAGE DETAILS.
 - WORK TO RELOCATE EXISTING UTILITIES, FIRE HYDRANTS, ETC. SHALL CONFORM TO SEWERAGE AND WATER BOARD STANDARD DETAILS.
 - CONTRACTOR/OWNER HAS THE OPTION OF 6" OR 5" THICKNESS OF PAVING. REINFORCEMENT SHALL NOT BE REQUIRED FOR 6" PAVING OPTION. REINFORCEMENT FOR THE 5" PAVING SHALL BE 6x12 @ 1' HWF TYPICAL. EXPANSION JOINT SHALL BE 3/4" BITUMINOUS WITH SNAP CAP AND MASTER FILL 300.
- SIDEWALKS**
- STREET INTERSECTIONS AS SHOWN ON DRAWINGS.
 - ACTUAL LOCATION OF RAMPS MAY VARY AS DIRECTED BY THE ENGINEER TO ACCOMMODATE EXISTING SITE CONDITIONS.
 - THE CONTRACTOR SHALL COORDINATE RAMP LOCATIONS WITH ENTERGY POWER POLE RELOCATIONS. RAMP LOCATIONS MAY SHIFT AS DIRECTED BY THE ENGINEER TO AVOID CONFLICT.
 - THE SLOPE OF THE RAMP SHALL NOT EXCEED 8%.
 - THE SLOPE OF THE SIDEWALK AND SIDEWALK TRANSITION SHALL NOT EXCEED 8%.
 - THE WIDTH OF THE RAMP SHALL NOT BE LESS THAN (4') BUT MAY EXCEED THIS WHERE NECESSARY.
 - SURFACE TEXTURE OF THE CONCRETE RAMP SHALL BE COMPLIED WITH ADA, THE LATEST EDITION.
 - CONCRETE TO BE 21 (3000 psi) EXCEPT AS OTHERWISE INDICATED.



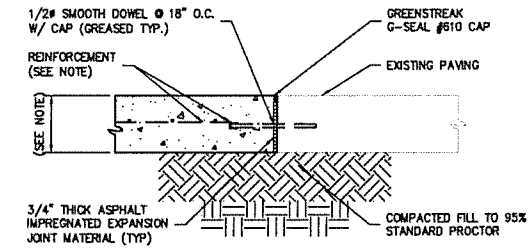
PERVIOUS CONCRETE PAVING DETAIL

SCALE: N.T.S.



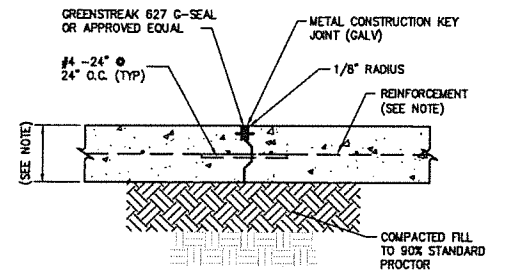
AGGREGATE W/ GRID SYSTEM (FOR REFERENCE ONLY)

SCALE: N.T.S.



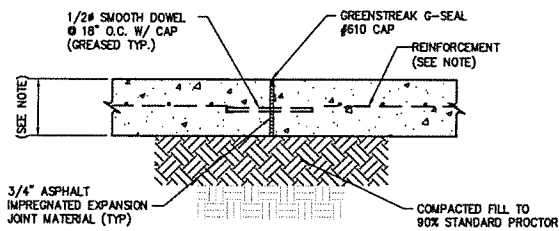
TYPICAL CONCRETE PAVING DETAIL

SCALE: 1"=1'-0"



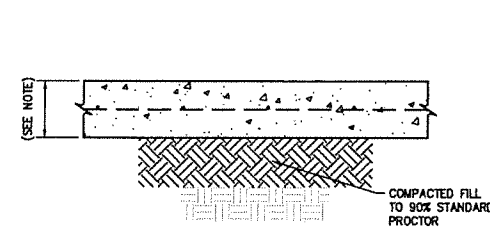
TYPICAL CONSTRUCTION JOINT DETAIL (C.J.)

SCALE: 1"=1'-0"



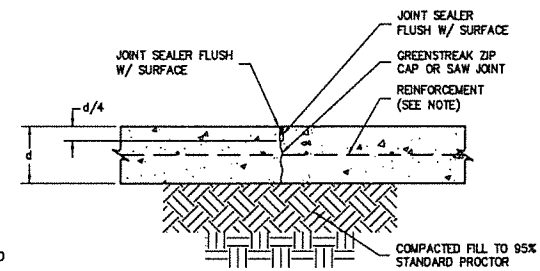
TYPICAL EXPANSION JOINT DETAIL (E.J.)

SCALE: 1"=1'-0"



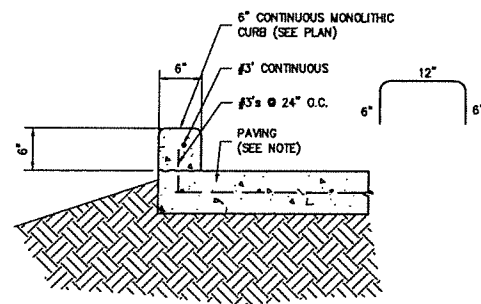
TYPICAL CONCRETE PAVING DETAIL

SCALE: 1"=1'-0"



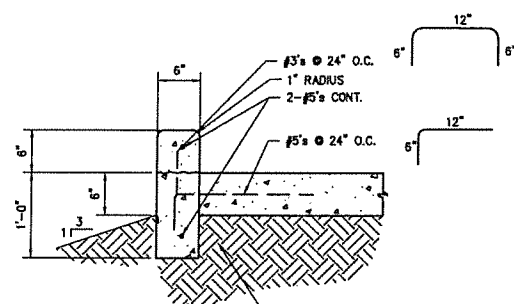
CONSTRUCTION JOINT DETAIL (ALTERNATE)

SCALE: 1"=1'-0"



BARRIER CURB DETAIL

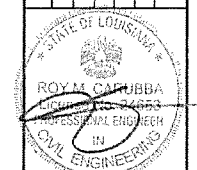
SCALE: 1"=1'-0"



BARRIER CURB DETAIL-ALTERNATE

SCALE: 1"=1'-0"

DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
5/15/2023							
FOR APPROVAL	DESCRIPTION	MARK					

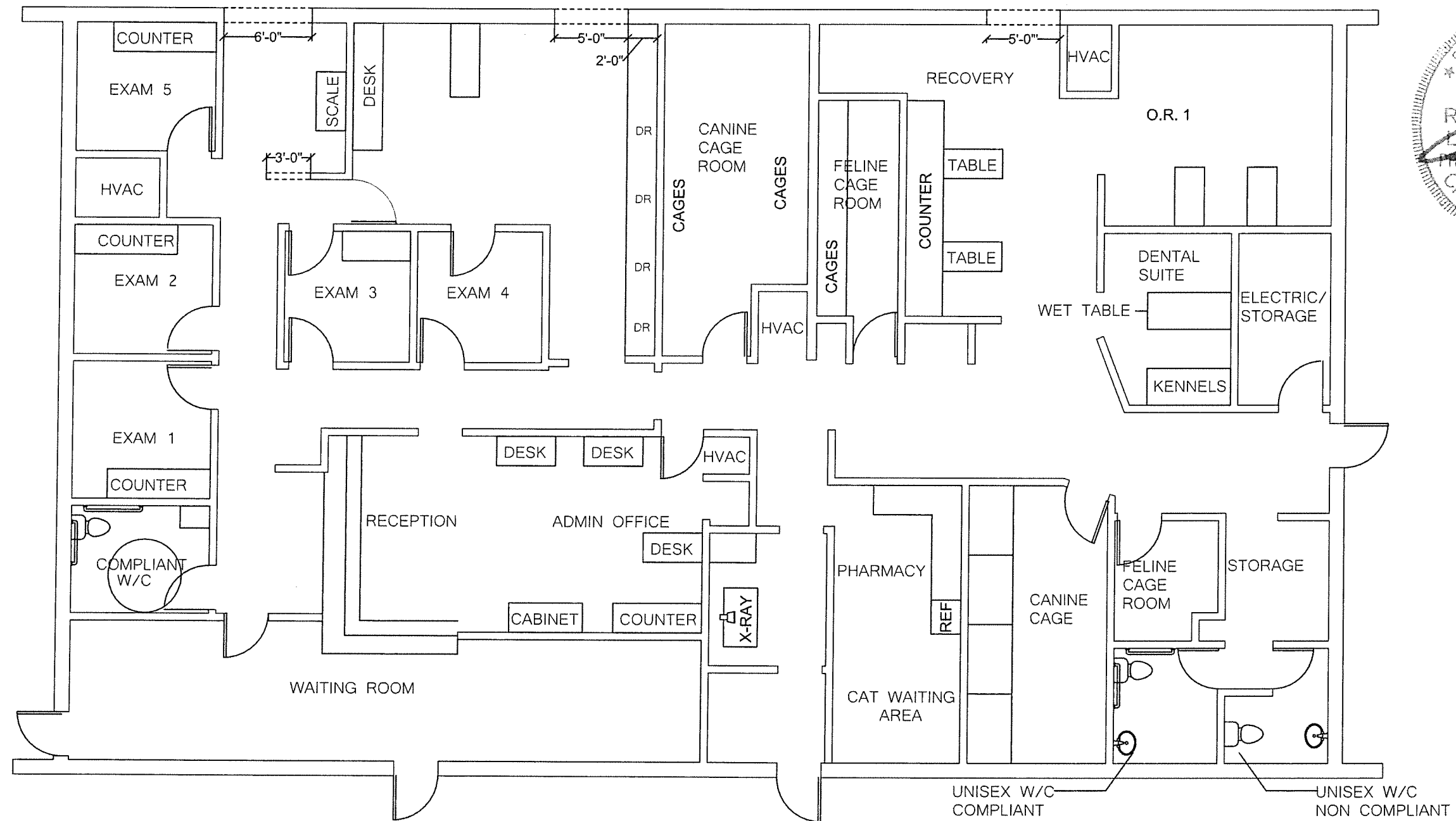
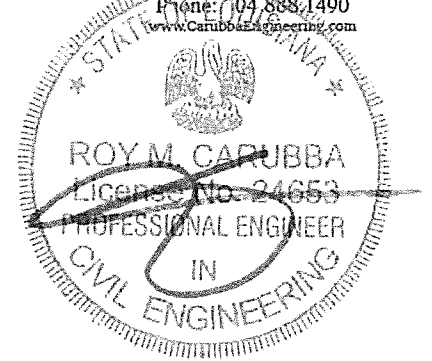


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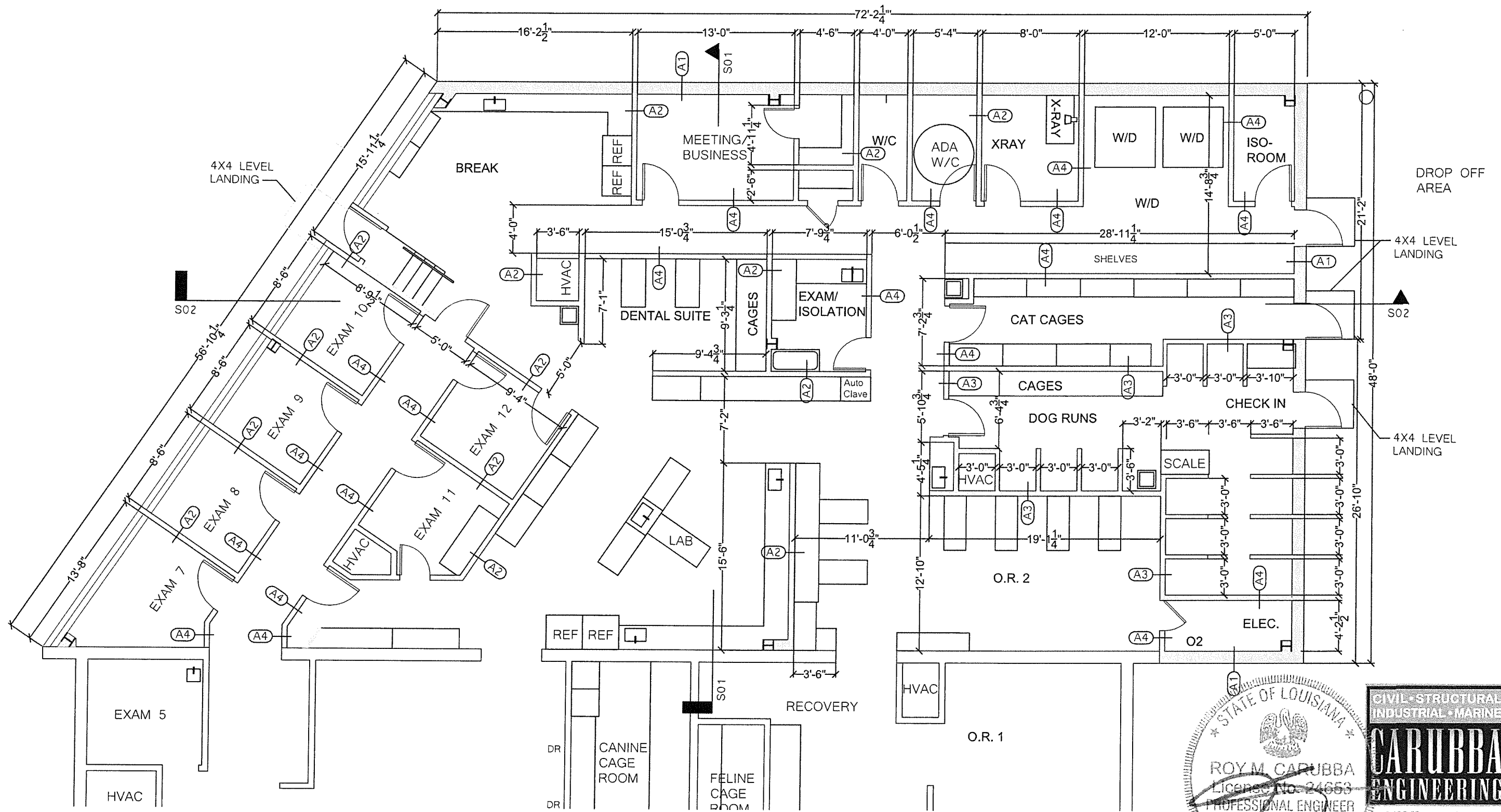
LOUISIANA
 SIDNEY PULTIZER JR
 PROPOSED ADDITION
 4300 WASHINGTON AVENUE
 PAVING, GRADING AND DRAINAGE NOTES AND DETAILS

DRAWN	RJR
CHECKED	MTD
DATE	5/15/2023
CEI PROJECT NO.	2022-146
SHEET	C2.0

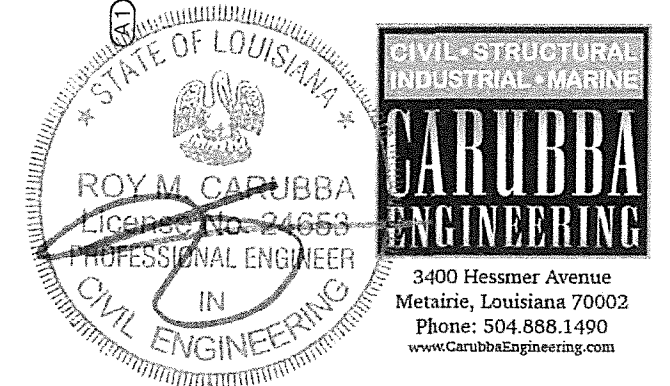


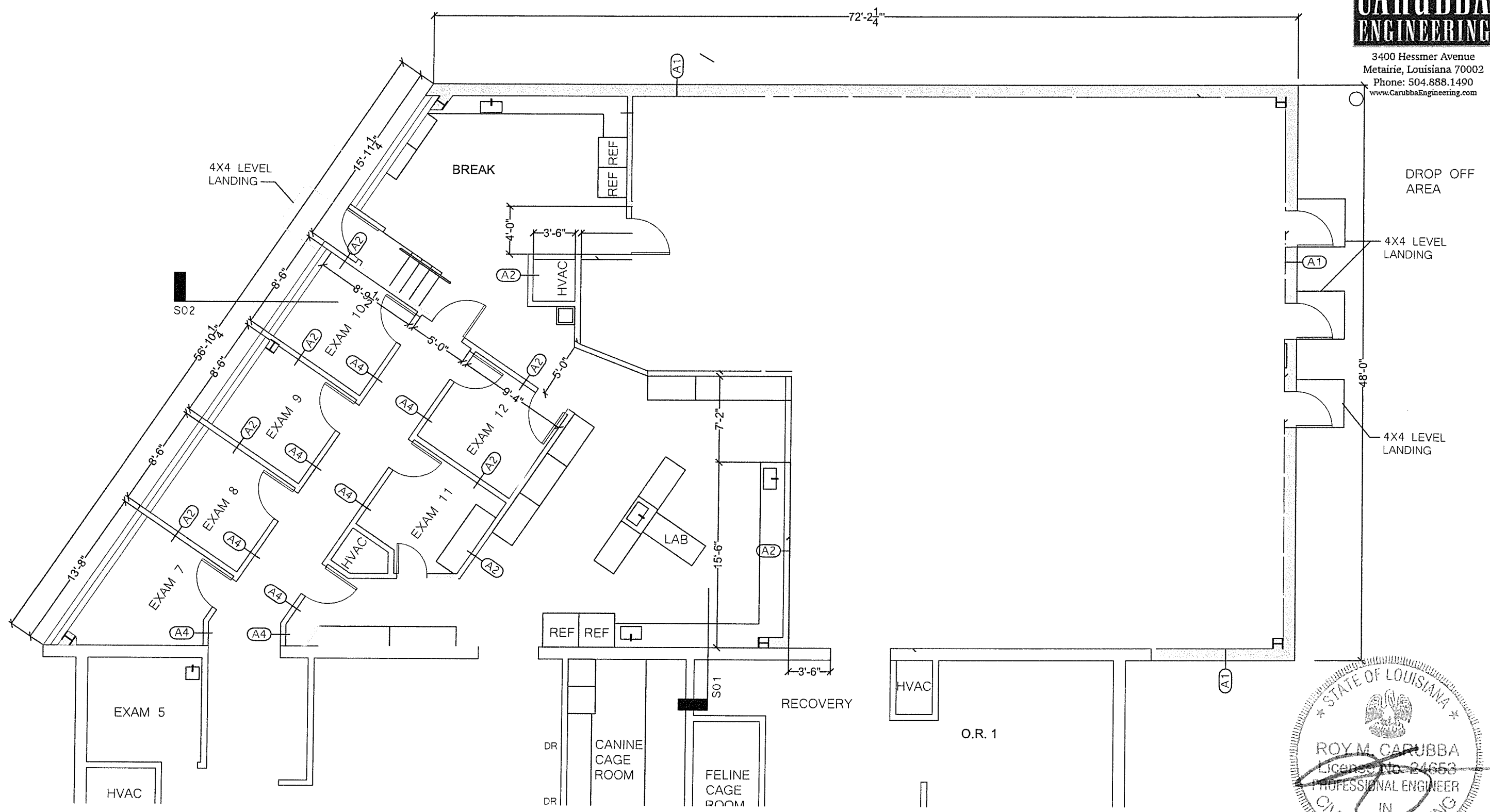


Low Cost Animal Center
Demolition Plan: 1" = 8'-0"

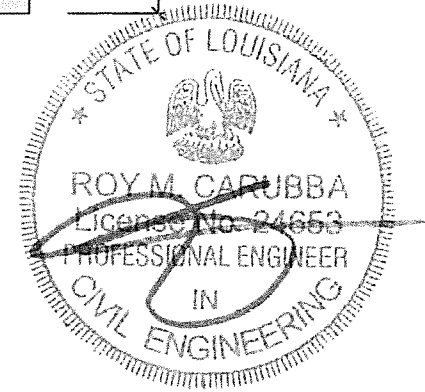


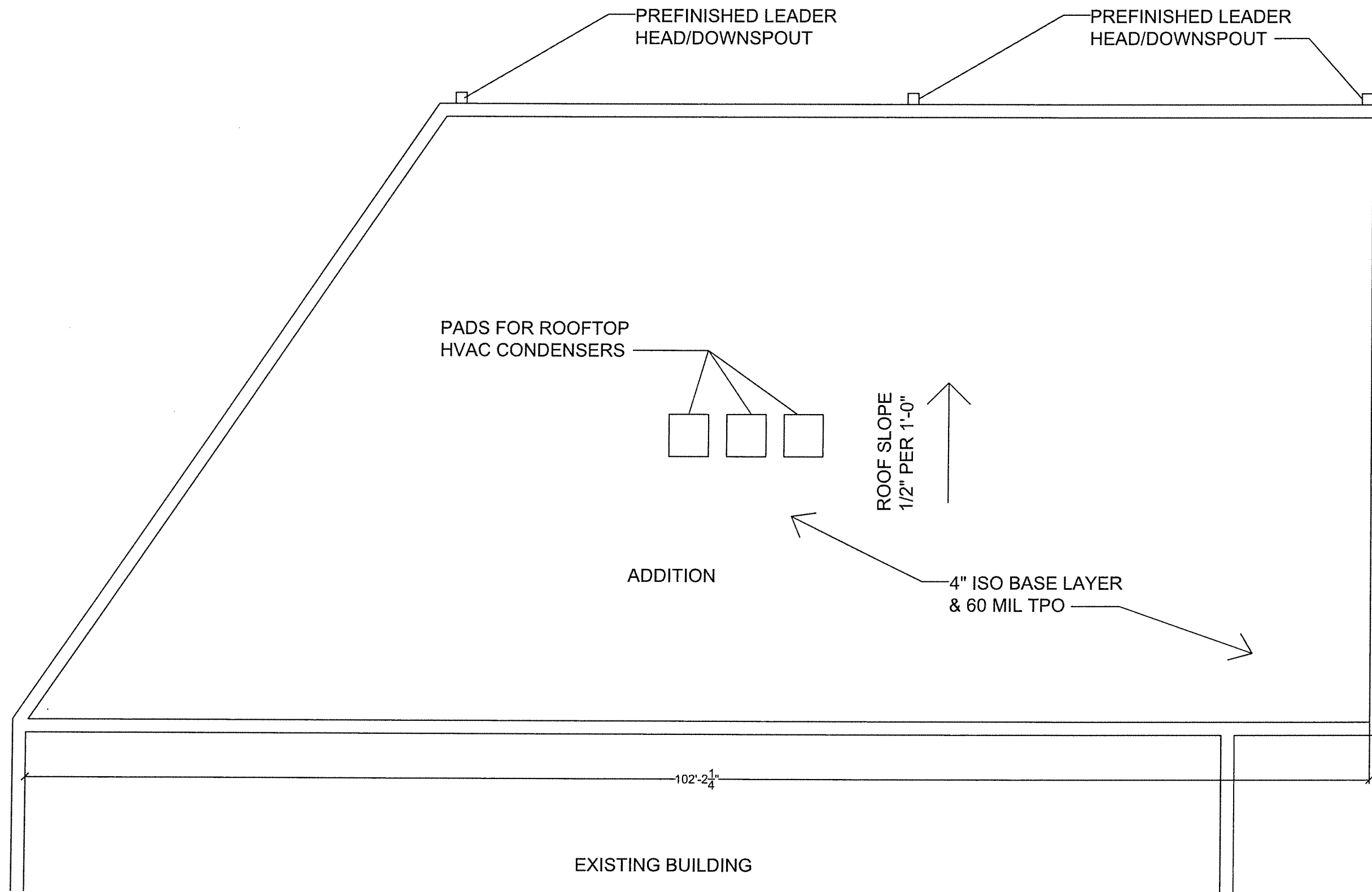
Low Cost Animal Center
 Floor Plan: 1" = 8'-0"



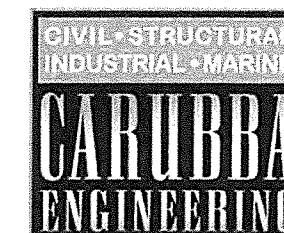


Low Cost Animal Center
Floor Plan Phase 1: 1" = 8'-0"

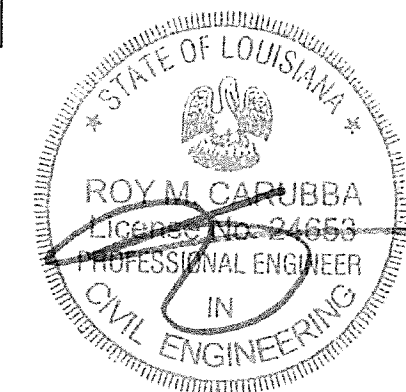


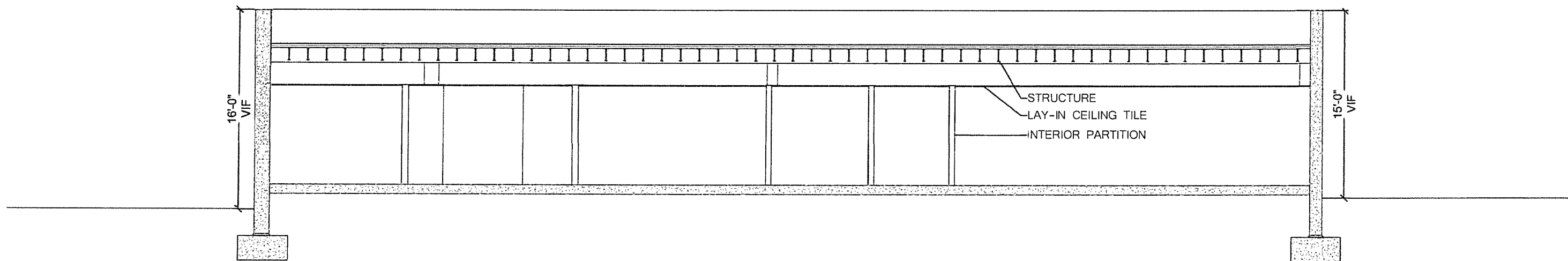


Low Cost Animal Center
 Roof Plan: 1" = 8'-0"

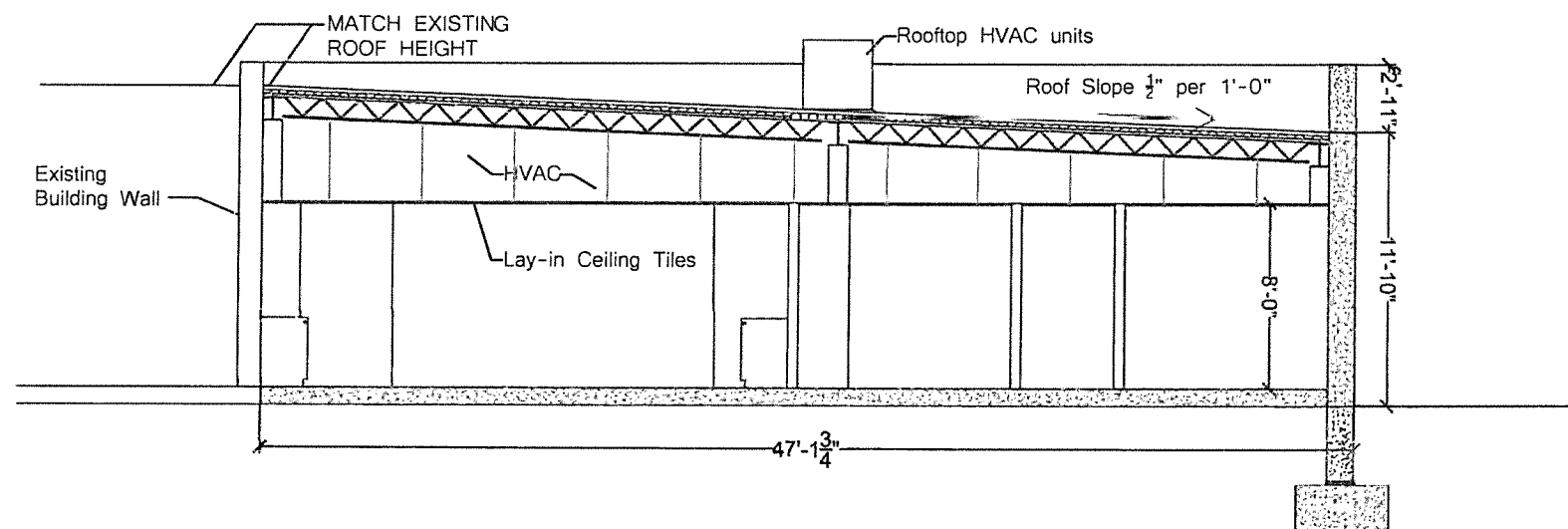


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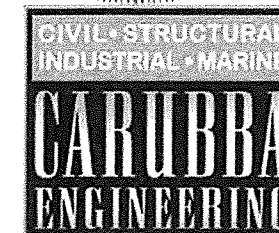
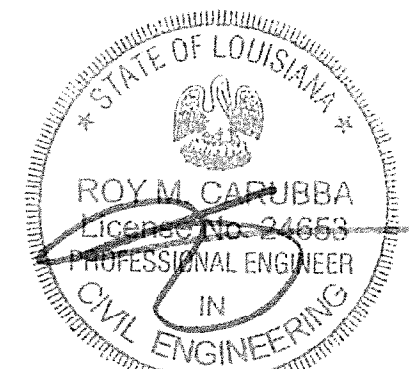
Section 02



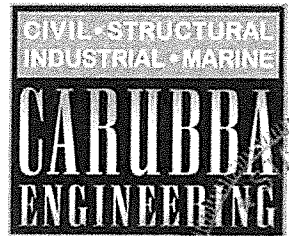
Section 01

Building Sections

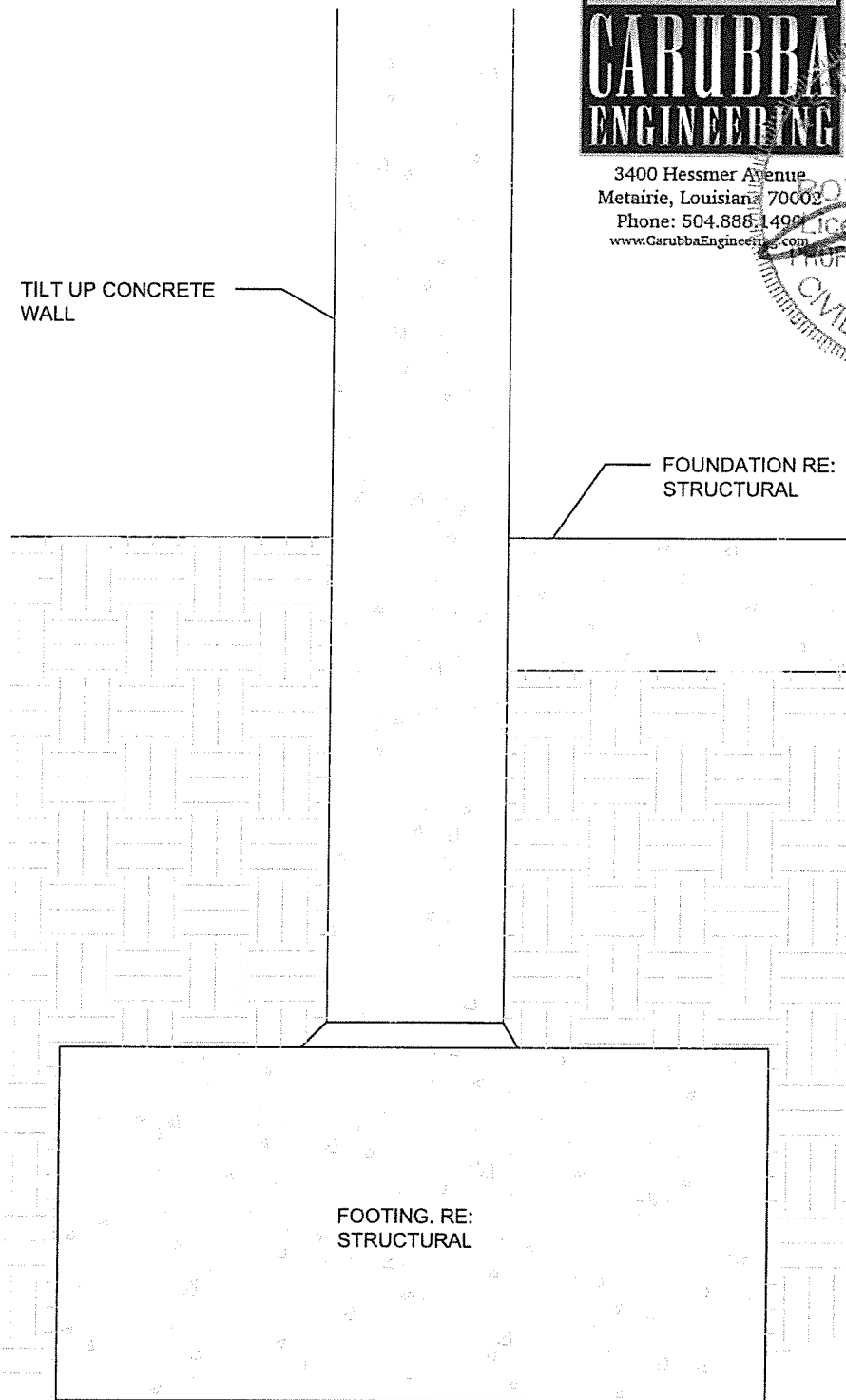
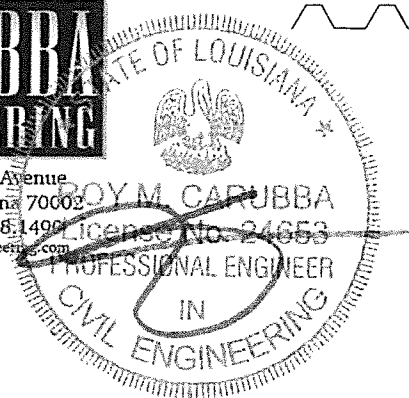
1" = 8'-0"



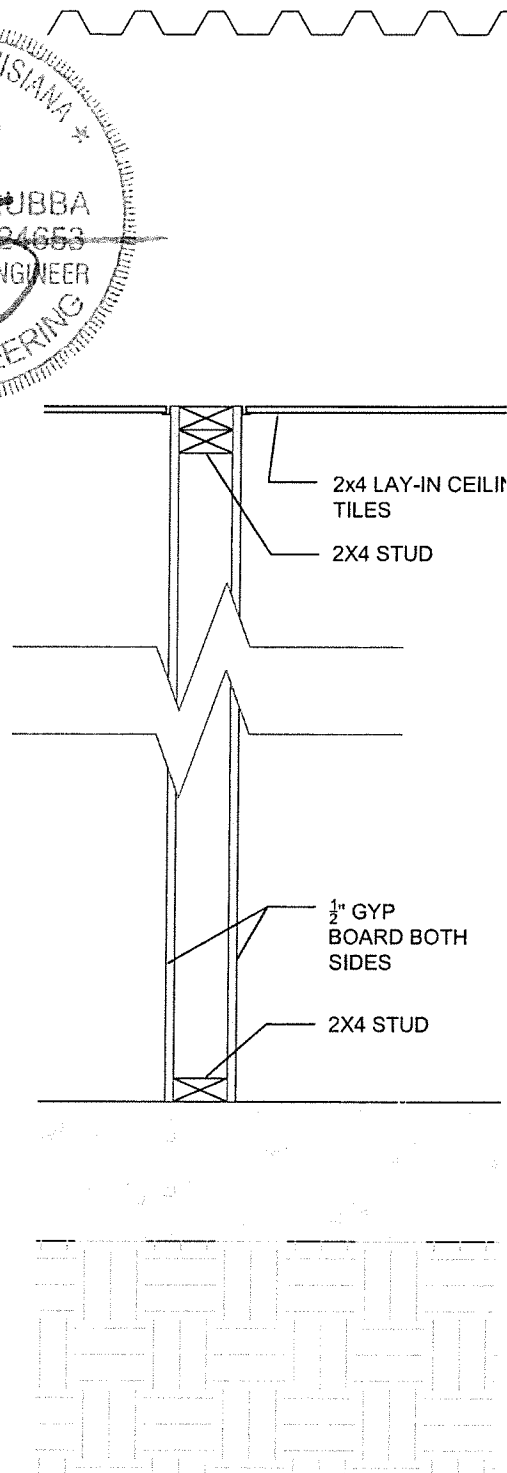
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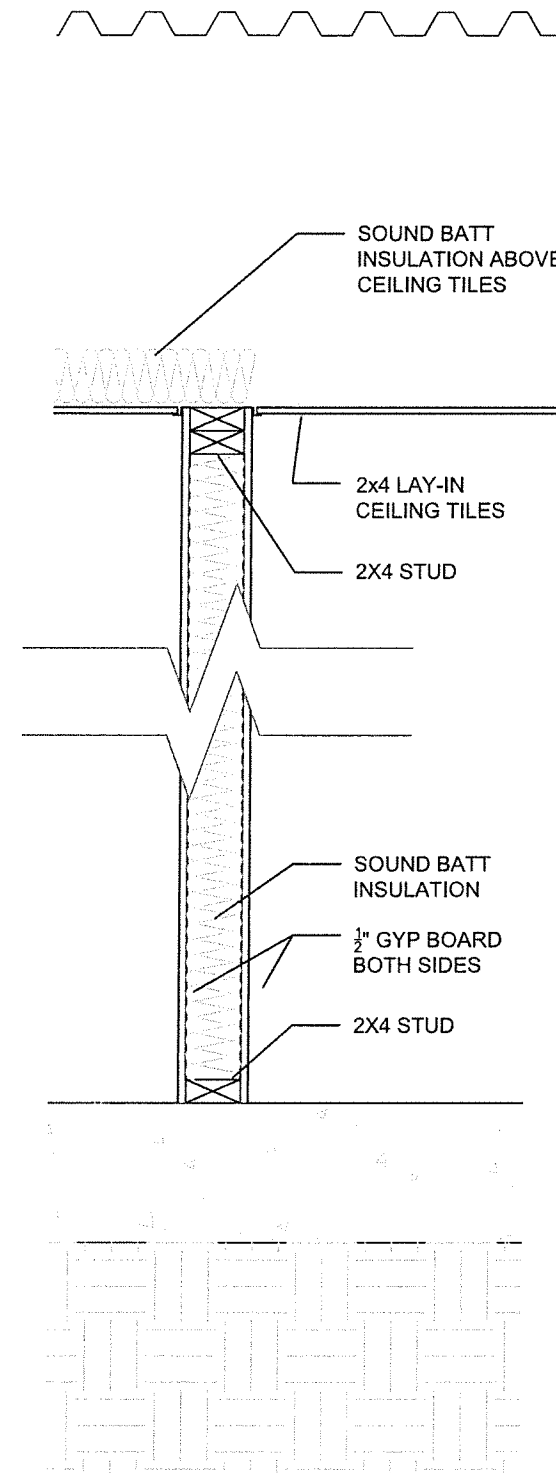
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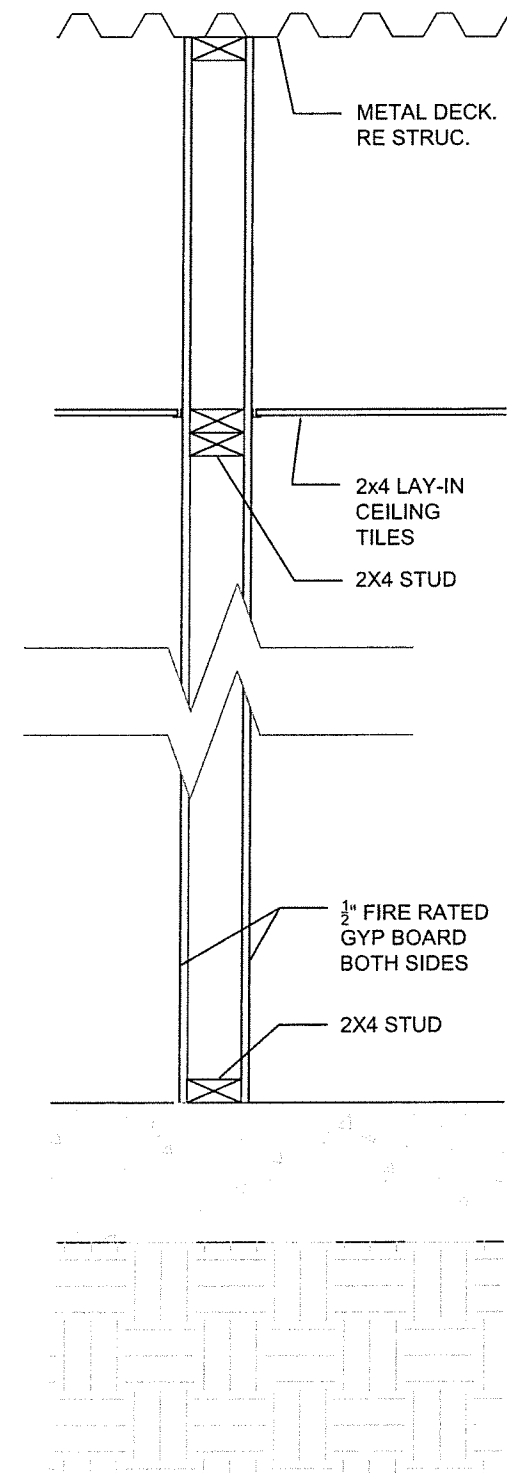
A1 - EXTERIOR WALL



A2 - INTERIOR PARTITION



A3 - INTERIOR PARTITION



A4 - 1 HR RATED INTERIOR PARTITION

Low Cost Animal Center
 Wall Types: 1" = 1'-0"

DRAWING INDEX

DRAWING #	TITLE
E-100	DRAWING INDEX
E-101	ELECTRICAL NOTES AND LEGEND
E-102	ELECTRICAL NOTES AND LEGEND
E-103	ELECTRICAL SCHEDULES
E-104	ELECTRICAL DETAILS
E-105	POWER PLAN
E-106	LIGHTING PLAN
E-107	ROOF PLAN

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NO	DATE	DESCRIPTION	BY	CHK	APP	DRN:	
0	07/25/2023	ISSUED FOR CONSTRUCTION	VC	KK	KK	DES:	
						CHK:	
						APP:	
						SCALE: N/A	SZ:
						DOC NO	

LOW COST ANIMAL MEDICAL CENTER 4300 WASHINGTON AVE. Drawing Index			
PROJ NO	DWG NO	REV	
	E-100	0	

ABBREVIATIONS

A	AMPS
AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
C	CONDUIT
CO	CONDUIT ONLY
CKT	CIRCUIT
DISC SW	DISCONNECT SWITCH
C (E)	EMPTY CONDUIT
EMT	ELECTRICAL METAL TUBING
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
F	FUSE, FUSIBLE
FACP	FIRE ALARM CONTROL PANEL
FL	FLOOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFS	GROUND FAULT SENSOR
GND	GROUND
HP	HORSEPOWER
KW	KILOWATT
KVA	KILOVOLTAMPERES
MCB	MAIN CIRCUIT BREAKER
MH or M/H	MANHOLE
MLO	MAIN LUGS ONLY
MT	MOUNT
MTD	MOUNTED
MTR	MOTOR
NF	NON-FUSED
NTS	NOT TO SCALE
PVC	POLYVINYL CHLORIDE
REC, RECPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

PLAN DRAWING SYMBOLS

	CONDUIT OR CABLE TAG (SEE CONDUIT SCHEDULE)
	WIRING ROUTED EXPOSED
	WIRING ROUTED UNDER FLOOR, BELOW GRADE OR IN SLAB
	WIRING RUN UNDERGROUND (ELECTRIC POWER, CONTROL OR LIGHTING) - SITE PLAN
	WIRING RUN UNDERGROUND (TELECOMM) - SITE PLAN
	CONDUIT TURNING UP OR TOWARDS
	CONDUIT TURNING DOWN OR AWAY
	LIGHTING AND RECEPTACLE PANELBOARD
	DISTRIBUTION PANELBOARD
	FLUORESCENT LIGHTING FIXTURE, SUFFIX INDICATES SWITCH LEG OR NIGHT LIGHT (SEE LIGHTING FIXTURE SCHEDULE FOR DETAIL).
	WIRE CONCEALED IN WALLS, CEILINGS AND FLOORS
	BELOW FLOOR JUNCTION BOX
	ELECTRIC MOTOR (CONNECTION AS NOTED)
	GROUND ROD
	ELECTRICAL NOTE DESIGNATION TAG (SPECIFIC TO EACH SHEET)
	POLE MOUNTED LIGHT FIXTURE
	WALL MOUNTED FIXTURE
	ELECTRIC HEATER ELEMENT
	INCANDESCENT OR FLUORESCENT DOWN LIGHT
	EXIT LIGHT FIXTURE, W/ DIRECTIONAL ARROWS ON FACE (SHADED) AS INDICATED
	EMERGENCY BATTERY PACK LIGHTING FIXTURE
	EMERGENCY BATTERY PACK LIGHTING FIXTURE & EXIT LIGHT
	DENOTES SWITCH DESIGN
	TELEPHONE SERVICE BOX (BY TELEPHONE CO.)
	TRANSFORMER
	ELECTRIC WATER HEATER
	METER (BY POWER CO.) PAN (BY CONTRACTOR)
	HOMERUN TO PANELBOARD "XXX". CROSSMARKS INDICATE CURRENT CARRYING CONDUCTORS. GROUND CONDUCTOR NOT SHOWN BUT SHALL BE INCLUDED IN ALL CIRCUITS. NO CROSSMARKS INDICATES 2 CONDUCTORS AND GROUND CONDUCTOR. WIRING #12 IN 3/4" C. UNLESS INDICATED OTHERWISE.

PLAN DRAWING SYMBOLS (CONT'D)

	DISCONNECT SWITCH (UNFUSED)
	FUSED DISCONNECT X - NO. OF POLES, Y - FUSE RATING, Z - SWITCH RATING R - NEMA RATING
	MOTOR STARTER
	COMBINATION MOTOR STARTER/CIRCUIT BREAKER OR
	THERMAL OVERLOAD SWITCH
	SINGLE POLE TOGGLE SWITCH - 20A, 120/277V, MTD. 48" AFF.
	SINGLE POLE DIMMING SWITCH
	3 WAY TOGGLE SWITCH - 20A, 120/277V, MTD. 48" AFF.
	WALL SWITCH SENSOR, PASSIVE INFRARED, 20, 120/277, MTD. 48" AFF.
	WALL SWITCH SENSOR, PASSIVE INFRARED, 20, 120/277, 3-WAY, MTD. 48" AFF.
	KEYLOCK LIGHT SWITCH, MTD. 48" AFF.
	TS-X TIME SWITCH
	JUNCTION BOX - USE RAISED COVER & BLANK PANEL IN FINISHED AREAS
	ELECTRIC DOOR LOCK
	RECEPTACLE PROTECTED BY GROUND FAULT CIRCUIT INTERRUPTER
	RECEPTACLE - DUPLEX, 20A, 120V, GROUNDED, NEMA 5-20R
	RECEPTACLE LOCATED ABOVE COUNTER
	RECEPTACLE LOCATED ABOVE COUNTER IN PEDESTAL ELECTRICAL BOX
	WEATHERPROOF RECEPTACLE
	RECEPTACLE FOR WALL MOUNTED TELEVISION
	RECEPTACLE - (TWO DUPLEX RECEPTACLES MOUNTED IN A SINGLE OUTLET BOX FOURPLEX), 20A, 120V, GROUNDED, NEMA 5-20R
	RECEPTACLE - 208V, 1Ø, GROUNDED
	RECEPTACLE - 208V, 3Ø, GROUNDED
	RECEPTACLE - 240V, 1Ø, L6-20R GROUNDED
	RECEPTACLE, FOR WALL HANGING CLOCK; RECESSED WITH HOOK FOR CLOCK - 20A, 120V, GROUNDED, NEMA 5-20R
	FLOOR MOUNTED RECEPTACLE - DUPLEX, 20A, 1Ø, 120V, 2 WIRE, 3 POLE, GROUNDED (SUFFIX 4 INDICATES QUAD RECEPTACLE)
	BELOW RAISED FLOOR RECEPTACLE - DUPLEX, 20A, 1Ø, 120V, 2W, 3P, GND WITH SUB-FLOOR MTD, J/B AND 5' FLEXIBLE CONDUIT "WHIP" (SUFFIX 4 INDICATES QUAD RECEPTACLE)

COLOR CODE ABBREVIATIONS

BK	BLACK
W	WHITE
R	RED
G	GREEN
O	ORANGE
BU	BLUE
A	AMBER
Y	YELLOW
R BK	RED BASE W/BLACK TRACER (TYP)

	CEILING MOUNTED FIXTURE		CEILING FAN
	RECESSED FIXTURE		CEILING FAN W/ LIGHT
	PENDANT FIXTURE		SURFACE FLUORESCENT OR LED
	RECESSED SPOTLIGHT		RECESSED FLUORESCENT OR LED
	WALL MOUNTED FIXTURE		UNDERCOUNTER FLUORESCENT OR LED
	FLOOD LIGHT		FLUORESCENT OR LED STRIP LIGHT
	PAIR - FLOOD LIGHTS		TELEVISION CABLE
	TRACK LIGHT		VENT/LIGHT
	ROPE LIGHTS		HEAT/VENT/LIGHT
	ELECTRICAL PANEL		GAS CONNECTION

TELEPHONE/COMMUNICATIONS SYMBOLS

	TELEPHONE OUTLET 1-GANG J.B. W/ 3/4" C (E) STUBBED UP ABOVE CEILING W/ PULL STRING
	COMBINATION TEL./DATA OUTLET 1-GANG J.B. W/ 3/4" C (E) STUBBED UP ABOVE CEILING W/ PULL STRING
	COMBINATION TEL./DATA FLOOR OUTLET 1-GANG J.B. W/ 3/4" C (E) STUBBED UP AS SPECIFIED W/ PULL STRING
	DATA OUTLET 1-GANG J.B. W/ 3/4" C (E) STUBBED UP ABOVE CEILING
	COAX CABLE OUTLET

VOLTAGE DROP CHART - SINGLE PHASE COPPER

3W - 120V, 208V, 240V, 277V													
CIRCUIT	CKT SIZE	AMPS	VOLTS	PH	MAX DISTANCE IN FEET								
					#12	#10	#8	#6	#4	#3	#2	#1	
120V	20	5	120	1	175	275	450	700					
	20	10	120	1	90	140	230	360	560	730			
	20	16	120	1	50	90	140	220	350	450	560		
	30	15	120	1		90	150	240	380	480	600		
208V	30	24	120	1		60	90	150	240	300	380	480	
	20	5	208	1	300	500	790						
	20	10	208	1	150	250	390	630					
	20	16	208	1	90	150	240	390	630				
	30	24	208	1		100	160	260	420	530	660		
240V	40	32	208	1			120	190	300	390	500	630	
	50	40	208	1				110	150	250	300	400	
	60	48	208	1					130	200	260	330	
	20	10	240	1	180	280	460	730					
	20	16	240	1	110	180	280	450	720				
277V	30	15	240	1			190	300	480	770	970		
	30	24	240	1			120	190	300	480	770		
	40	32	240	1				140	220	390	450	560	
	50	40	240	1				110	180	290	360	460	
277V	60	48	240	1					150	240	300	380	
	20	5	277	1	400	650	1000						
	20	10	277	1	200	330	530	840					
CONDUIT	20	16	277	1	130	200	330	520	840				
	25	20	277	1		160	260	420	670	840			
						EMT	1/2"	1/2"	1/2"	3/4"	1"	1"	1"
					RMC	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1 1/4"
					IMC	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1 1/4"
					PVC40	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1 1/4"
					PVC80	1/2"	1/2"	3/4"	3/4"	1"	1"	1"	1 1/4"
CONDUCTORS						3	3	3	3	2#6G	2#6G	2#6G	2#4G

CONDUIT FILL IS BASED ON THHN CONDUCTORS.
 1. CHARTS INDICATE MAXIMUM DISTANCE FOR A SPECIFIC CIRCUIT.
 2. CALCULATIONS ARE BASED ON A 3% VOLTAGE DROP.
 3. AMPERAGES ARE APPROXIMATE, NOT EXACT.
 4. CONDUIT FILL IS ACCORDING TO FILL % IN THE NEC, HOWEVER SOMETIMES A LARGER CONDUIT IS MORE PRACTICAL FOR WIRING PULLING PURPOSES DEPENDING ON LENGTH OF CIRCUIT. BORDER LINE FILL PERCENTAGES, THE NEXT LARGER SIZE CONDUIT IS INDICATED.

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			DOC NO			SZ:				
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GENERAL NOTES:

1. EACH CIRCUIT IS SHOWN WITH AN INDIVIDUAL HOME RUN. CONTRACTOR MAY ELECT TO COMBINE TWO OR MORE CIRCUITS IN ONE COMMON CONDUIT AND WITH COMMON NEUTRAL WHERE ALLOWED (CIRCUITS WITH HIGH CONTENT OF HARMONIC CURRENTS MAY NOT USE COMMON NEUTRAL. EXAMPLE: LIGHTING CIRCUITS WITH ELECTRONIC BALLASTS, CIRCUITS WITH NON-LINEAR ELECTRONIC POWER SUPPLIES, ETC.) NOTE: CAPACITIES OF CONDUCTORS SHALL BE REDUCED IF MORE THAN THREE CURRENT CARRYING CONDUCTORS ARE INSTALLED IN THE RACEWAYS. SEE NEC ARTICLE 310-15, B(A) "NOTES TO AMPACITY TABLES OF 0 TO 2,000 VOLTS." CONDUCTORS SHALL BE DERATED IF 4 OR MORE WIRES ARE INSTALLED IN ONE CONDUIT.
2. ALL CONDUIT AND WIRE MUST BE CONCEALED FROM VIEW. EXPOSED CONDUIT AND WIRE ARE NOT ACCEPTABLE EXCEPT IN EQUIPMENT AND STORAGE ROOMS.
3. ALL ELECTRICAL AND COMMUNICATION DEVICES (LIGHT SWITCHES, RECEPTACLES, TELEPHONE, DATA ETC.) SHALL BE RECESSED MOUNTED UNLESS NOTED OTHERWISE. FIELD VERIFY RECEPTACLE MOUNTING REQUIREMENTS WITH OWNER\ ARCH. IF NO REQUIREMENTS, MOUNT ALL DUPLEX RECEPTACLES WITH THE "U" GROUND TERMINAL ON TOP, UNLESS NOTED OTHERWISE OR AS REQUIRED BY OWNER\ARCH. NEUTRAL TERMINAL SHALL BE ON TOP FOR HORIZONTALLY MOUNTED RECEPTACLES.
4. OWNER RESERVES THE RIGHT TO MOVE ANY OUTLETS 8 FEET IN ANY DIRECTION PRIOR TO ROUGH-IN. ALL RECEPTACLES WITHIN 6 FEET OF ANY WET AREA (EXAMPLE: SINK, DISHWASHER, ETC.) SHALL HAVE GROUND FAULT PROTECTION, WHETHER SPECIFICALLY INDICATED OR NOT ON DRAWINGS.
5. SWITCHES/STARTERS FOR MECH. AND OTHER EQUIPMENT: LOCATION OF DISCONNECT SWITCHES, STARTERS, CONTROL STATIONS ETC. ARE SHOWN DIAGRAMMATICALLY ON THE DRAWINGS. INSTALL SUCH DEVICES IN COMPLIANCE WITH CODE REQUIRED CLEARANCE REQUIREMENTS. ALL SUCH DEVICES SHALL BE ACCESSIBLE AFTER AFTER EQUIPMENT ARE IN PLACE AND SATISFY CODE CLEARANCE REQUIREMENTS. REMOVE AND REINSTALL DEVICES THAT ARE INACCESSIBLE OR WITH INADEQUATE CODE CLEARANCE AT NO ADDITIONAL COST TO OWNER.
6. HVAC EQUIPMENT: OVERCURRENT DEVICES, DISCONNECT SWITCHES, CONDUIT/WIRE ARE SELECTED BASED ON EQUIPMENT SHOWN ON MECHANICAL DRAWINGS. FIELD VERIFY RATINGS OF EQUIP. SUPPLIED BY HVAC, REVISE ELECTRICAL AS REQUIRED TO MATCH ACTUAL EQUIPMENT SUPPLIED BY MECHANICAL CONTRACTOR.
7. FIRE WALL: DO NOT INSTALL RECEPTACLES, TELEPHONE, DATA OUTLETS ETC. BACK-TO-BACK IN FIRE/SMOKE PARTITIONS OR WITHIN THE SAME SPACE ENCLOSED BY TWO ADJACENT STUDS. ALSO APPLY TO ALL CORRIDOR WALLS.
8. LOCATION OF CONNECTION POINTS FOR HVAC UNITS, ETC., ARE APPROXIMATE. EXACT LOCATION OF CONNECTION POINTS AND QUANTITY SHALL BE DETERMINED BASED ON APPROVED SHOP DRAWINGS FOR THE REFERENCED EQUIPMENT.
9. PROVIDE U.L. LISTED AND APPROVED MODIFIED LUGS ON DISCONNECT SWITCHES AND/OR MAGNETIC STARTERS THAT HAVE TO ACCEPT CONDUCTORS LARGER THAN STANDARD LUG SIZES CAN ACCOMMODATE.
10. DO NOT MOUNT ANY DISCONNECT SWITCHES, STARTERS, ETC., ON ANY MECHANICAL EQUIPMENT OR HVAC DUCTS. PROVIDE UNISTRUT RACKS FOR MOUNTING OF THIS EQUIPMENT. UNISTRUT INSTALLED IN DAMP OR WET LOCATIONS TO BE HOT DIPPED GALVANIZED. MOUNT THIS EQUIPMENT WITH A AIR SPACE OF A MINIMUM OF 1" FROM ANY SURFACES. SUBMIT SHOP DRAWINGS FOR APPROVAL OF ARCHITECT FOR EACH INDIVIDUAL RACK LOCATION.
11. DO NOT LAY ANY SPECIAL SYSTEMS CABLING, RACEWAYS, ETC., ON CEILING GRID. DO NOT USE CEILING SUPPORTS FOR ANY WIRING METHOD SUPPORTS.
12. ALL FUSES ON THIS PROJECT TO BE OF THE SAME MANUFACTURER. ALL FUSES IN EACH INDIVIDUAL DISCONNECT SWITCHES SHALL BE OF THE SAME IDENTICAL TYPE, AMPERAGE AND VOLTAGE RATING. ALL FUSES SHALL BE INSTALLED RIGHT SIDE UP, AND WITH THE AMPERAGE LABEL FACING OUT. FUSES OUTDOORS OR IN WET LOCATIONS SHALL BE INSTALLED USING OXIDATION INHIBITING COMPOUND (PENETROX OR EQUAL) IN ALL FUSE HOLDERS.
13. LABEL ALL DEVICES WITH PANEL DESIGNATION, CIRCUIT NUMBER AND VOLTAGE. LABELING TO BE ACCOMPLISHED BY ENGRAVING FACEPLATES. SUBMIT METHOD OF ENGRAVING, STYLE AND HEIGHT FOR APPROVAL.
14. EVERY RACEWAY ON THIS PROJECT SHALL CONTAIN A GREEN INSULATED COPPER GROUND WIRE. THIS INCLUDES LIGHT FIXTURE WHIPS.
15. ALL EQUIPMENT FURNISHED AND ALL WORK SHALL BE IN STRICT CONFORMITY WITH ELECTRICAL SECTION OF REGULATORY INSPECTIONS FOR THE GOVERNING PARISH, COUNTY, OR STATE. FIRE MARSHALL, N.E.C. MOST RECENT EDITION & ALL OTHER APPLICABLE LAWS, ORDINANCES, CODES & RULES OF CONSTRUCTION APPLICABLE IN THE LOCALITY OF WORK.
16. PERMITS, CERTIFICATES OF INSPECTION AND APPROVAL AS APPLICABLE TO THE VARIOUS PORTIONS OF THE WORK SHALL BE OBTAINED FROM THE INSPECTION AGENCY HAVING JURISDICTION THEREON AND SHALL BE DELIVERED TO THE ARCHITECT PRIOR TO ACCEPTANCE OF THE WORK. PAY ALL FEES REQUIRED IN CONNECTION WITH VARIOUS INSPECTIONS AND PERMITS.
17. ALL LIGHTING FIXTURES, SWITCHES, RECEPTACLES, PLUGMOLD ETC., SHALL COMPLY WITH STANDARDS OF U.L. INC.
18. ELECTRICAL PLANS SHOW GENERAL WORK TO BE PERFORMED BY CONTRACTOR AND HAS BEEN PREPARED TO ASSIST THE CONTRACTOR IN PREPARING HIS PROPOSED COST FOR THE TOTAL PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK AND FINAL BID PRICE.
19. EACH BRANCH CIRCUIT AND/OR FEEDER SHALL HAVE A GREEN INSULATED EQUIPMENT GROUND CONDUCTOR
20. ALL PENETRATIONS THROUGH PARTITIONS, CEILINGS, FLOORS, ETC., SHALL BE PROPERLY SEALED TO MAINTAIN FIRE RATING OF CEILING, FLOOR, PARTITIONS, ETC.
21. THE NUMBER OF CROSSMARKS SHOWN TO INDICATE THE NUMBER OF CONDUCTORS FOR A BRANCH CIRCUIT DOES NOT INCLUDE THE EQUIPMENT GROUND CONDUCTOR.
22. UPON COMPLETION, CONTRACTOR SHALL FURNISH AS-BUILT SCHEMATIC DRAWING OF ALL VARIATIONS OF EXISTING PLANS TO OWNER.
23. TEST EACH RECEPTACLE IN THE ROOM WITH A WOODHEAD CO. "GROUND LOOP INDEPENDENCE TESTER" AND RECORD CIRCUIT NAME AND READING IN OHMS. PROVIDE TYPED REPORT TO OWNER.
24. UPON COMPLETION OF THE WORK, TEST THE NEW INDIVIDUAL SYSTEMS, INCLUDING ALL FEEDERS AND BRANCH CIRCUITS TO RECEPTACLES, LIGHTING WITH A 500 VOLT DC INSULATION TESTER (WITH AN 0-200 MEGOHM FULL SCALE.) ALL CONDUCTORS SHALL HAVE INSULATION TESTED WHEN WIRING SYSTEM IS COMPLETE AND A LOG KEPT OF THE CIRCUIT NAME, DATE AND MEGGER READINGS. RECORD FEEDER AND/OR CIRCUIT NAME, READING IN OHMS, AND SUBMIT REPORT TO ARCHITECT. CHECK FOR PROPER PHASE ROTATION. ALL TEST REPORTS SHALL BE TYPED. PROVIDE ALL INSTRUMENTS, LABOR, ETC. REQUIRED FOR TESTING. ALL TESTING SHALL BE OBSERVED BY THE ARCHITECT AND/OR REPRESENTATIVES OF ARCHITECT.

GENERAL NOTES (CONT'D):

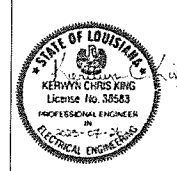
25. UPON COMPLETION OF ALL TESTS AND ACCEPTANCE, FURNISH THE OWNER A WRITTEN GUARANTEE COVERING THE ELECTRICAL WORK DONE AND EQUIPMENT INSTALLED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. DURING THE GUARANTEE PERIOD THE CONTRACTOR SHALL RECTIFY AND REPLACE ANY DEFECTIVE MATERIAL OR WORKMANSHIP AND REPAIR DAMAGE CAUSED THEREBY WITHOUT ANY ADDITIONAL COST TO THE OWNER.
26. ALL SMOKE AND HEAT DETECTORS SHALL BE MOUNTED A MINIMUM OF THREE FEET FROM HVAC GRILLES AND ONE FOOT FROM LIGHT FIXTURES. PROVIDE ADDITIONAL DETECTORS IF REQUIRED TO MEET THIS REQUIREMENT WITHOUT ADDITIONAL COMPENSATION FROM OWNER. THIS IS A CODE REQUIREMENT AND WILL BE STRICTLY ENFORCED.
27. LOOP CONDUIT FROM ONE DEVICE BOX TO THE OTHER OR ONE LIGHT FIXTURE BOX TO THE OTHER ALL SPLICES SHALL BE MADE IN THE DEVICE BOXES AND FIXTURE JUNCTION BOXES. DO NOT INSTALL ADDITIONAL JUNCTION BOXES IN CEILING OR WALLS TO BRANCH OFF CIRCUITS.
28. WHERE OVERSIZED CONDUITS OR CONDUCTORS ARE INDICATED, THE CONDUIT AND WIRE SIZE SHALL BE INSTALLED THROUGHOUT THE ENTIRE CIRCUIT.
29. ALL INSTALLATION INDICATED IN CONTRACT DOCUMENTS SHALL BE FLUSH MOUNTED IN WALLS OR CEILINGS. SURFACE MOUNTED OR EXPOSED IS ACCEPTED ONLY IN WRITING BY ARCHITECT GRANTING APPROVAL.
30. MECHANICAL EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS WITH APPROVED MECHANICAL SHOP DRAWINGS PRIOR TO START OF ROUGH-IN.
31. NOTE NFPA 72 2.3.6.1.3 WHICH STATES THAT ALL DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEANUP OF ALL TRADES IS COMPLETE AND FINAL DETECTOR COVERS ARE NOT ACCEPTABLE. IF DETECTORS ARE INSTALLED PRIOR TO THE FINAL CONSTRUCTION CLEANUP OF ALL TRADES IN THE OPINION OF THE OWNER AND ARCHITECT THESE DETECTORS SHALL BE REPLACED AT NO COST TO OWNER.
32. COORDINATE MOUNTING HEIGHTS OF ALL WALL MOUNTED EQUIPMENT, WIRING DEVICES, ETC., WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF ROUGH IN.
33. INSTALL ALL ELECTRICAL ROUGH-INS REQUIRED FOR OWNER FURNISHED EQUIPMENT. THIS INCLUDES BUT NOT LIMITED TO ALL REQUIRED BOXES, FITTINGS, ASSOCIATED WIRING, RACEWAYS, ETC. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH APPROPRIATE EQUIPMENT VENDOR PRIOR TO START OF ROUGH-IN. MAKE ALL REQUIRED FINAL TERMINATIONS.
34. PRIOR TO START OF ROUGH-IN FOR ALL LIGHT SWITCHES, COORDINATE DOOR SWING AND ADJUST LOCATION OF LIGHT SWITCH ACCORDINGLY.
35. ALL ELECTRICAL SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE 2017 NFPA 70, NATIONAL ELECTRICAL CODE.
36. EMERGENCY AND EXIT LIGHTING SHALL BE WIRED AND UNSWITCHED (WIRED AHEAD OF ANY SWITCHES) ON INDICATED CIRCUIT.
37. ALL DISCONNECTS (FUSIBLE AND UNFUSIBLE) SHALL BE HEAVY DUTY TYPE AND LOCKABLE.
38. COORDINATE INSTALLATION AND MOUNTING HEIGHT AND LOCATION OF RECEPTACLES FOR WALL MOUNTED TELEVISIONS WITH OWNER/ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
39. CEILING FANS HAVE TWO SWITCHES; SEPARATE SWITCHES FOR LIGHT AND FAN.
40. RECESSED FIXTURES - USE IC HOUSINGS IN INSULATED CEILINGS OR KEEP INSULATION A MINIMUM OF 3" FROM THE RECESSED HOUSING.
41. ALL BRANCH CIRCUITS SUPPLYING 125V, SINGLE PHASE, 15 AND 20 AMPERE OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.
42. ALL EXTERIOR RECEPTACLES, RECEPTACLES OVER COUNTERTOPS, IN BATHROOMS & IN GARAGES TO BE GFCI PROTECTED.
43. ALL OUTLETS TO BE TAMPERPROOF.
44. ELECTRICAL SYSTEMS, EQUIPMENT AND COMPONENTS, AND HEATING, VENTILATING, AIR CONDITIONING, AND PLUMBING APPLIANCES, PLUMBING FIXTURES, DUCT SYSTEMS, AND OTHER SERVICE EQUIPMENT SHALL BE LOCATED AT OR ABOVE THE REQUIRED FLOOD ELEVATION. IRC R322.
45. ELECTRICAL SYSTEMS, EQUIPMENT AND COMPONENTS, AND HEATING, VENTILATING, AIR CONDITIONING, SYSTEMS ARE PERMITTED TO BE LOCATED BELOW THE DESIGN FLOOD ELEVATION PROVIDED THEY CONFORM TO THE PROVISIONS OF THE ELECTRICAL CODE FOR WET LOCATIONS AND THE PROVISIONS OF IRC R322.1.6.
46. THE WATER HEATER MUST BE ELECTRICALLY GROUNDING. IF USING THE POWER PLUG, ENSURE THAT THE ELECTRICAL OUTLET YOU CONNECT THE WATER HEATER TO IS PROPERLY GROUNDING. IF WIRING THE WATER HEATER DIRECTLY TO A POWER SUPPLY, DO NOT ATTACH THE GROUND WIRE TO EITHER THE GAS OR THE WATER PIPING AS PLASTIC PIPE OR DIELECTRIC UNIONS MAY PREVENT PROPER GROUNDING.
47. LOCATED DISCONNECT SWITCHES FOR AIR HANDLER UNITS IN ATTIC ADJACENT TO UNITS.
48. APPLIANCES ARE SHOWN WITH JB FOR POWER CONNECTION; UNLESS ALREADY SHOWN WITH RECEPTACLE OR SWITCH ON DRAWINGS. PROVIDE APPLIANCE SPECIFIC RECEPTACLE OR SWITCH AS REQUIRED TO COMPLETE INSTALLATION.
49. CONFIRM APPLIANCE BREAKER SIZE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ADJUST ACCORDINGLY.
50. SEE THE RATING PLATE LOCATED ON THE DOUBLE WALL OVEN FRAME TO DETERMINE THE RATING OF THE PRODUCT. BREAKER, FEEDER, AND CONDUIT SIZE SHALL BE ADJUSTED ACCORDINGLY. CIRCUIT DESIGN ON THESE DRAWINGS IS BASED ON 12KW AT 240V, 1-PHASE, 60HZ.
51. ALL LIGHTING FIXTURES ARE ASSUMED TO BE 150W MAX. IF ANY LIGHTING FIXTURES EXCEED 150W, NOTIFY ENGINEER TO CONFIRM CIRCUIT SIZE PRIOR TO INSTALLATION.
52. ALL POWER CONDUCTORS AND AND CABLES RATED 600 V. ALL COMMUNICATION CONDUCTORS AND CABLES SHALL BE RATED 300 V. CONNECTORS, SPLICES, AND TERMINATIONS RATED 600 V AND 300 V TO MATCH CONDUCTORS AND CABLES.
53. PROVIDE COPPER CONDUCTORS WITH TYPE XHHW-2 INSULATION.
54. ALL ELECTRICAL EQUIPMENT AND COMPONENTS SHALL BE LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR APPLICATIONS IN WHICH USED AND FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS CONNECTED.

GENERAL NOTES (CONT'D):

55. BARE COPPER CONDUCTORS:
 - SOLID CONDUCTORS: ASTM B 3.
 - STRANDED CONDUCTORS: ASTM B 8.
 - TINNED CONDUCTORS: ASTM B 33.
 - SIZES AND TYPES OF CONDUCTORS IN FOUR SUBPARAGRAPHS BELOW ARE TYPICAL EXAMPLES. 28-KCMIL BONDING CABLE IN "BONDING CABLE" SUBPARAGRAPH BELOW IS SLIGHTLY LARGER THAN NO. 6 AWG.
56. BONDING CABLE: 28 KCMIL, 14 STRANDS OF NO. 17 AWG CONDUCTOR, 1/4 INCH (6 MM) IN DIAMETER.
57. BONDING CONDUCTOR: NO. 4 OR NO. 6 AWG, STRANDED CONDUCTOR.
58. BONDING JUMPER: COPPER TAPE, BRAIDED CONDUCTORS TERMINATED WITH COPPER FERRULES; 1-5/8 INCHES (41 MM) WIDE AND 1/16 INCH (1.6 MM) THICK.
59. TINNED BONDING JUMPER: TINNED-COPPER TAPE, BRAIDED CONDUCTORS TERMINATED WITH COPPER FERRULES; 1-5/8 INCHES (41 MM) WIDE AND 1/16 INCH (1.6 MM) THICK.
60. GROUNDING BUS: PREDRILLED RECTANGULAR BARS OF ANNEALED COPPER, 1/4 BY 4 INCHES (6.3 BY 100 MM) IN CROSS SECTION, WITH 9/32-INCH (7.14-MM) HOLES SPACED 1-1/8 INCHES (28 MM) APART. STAND-OFF INSULATORS FOR MOUNTING SHALL COMPLY WITH UL 691 FOR USE IN SWITCHBOARDS, 600 V AND SHALL BE LEXAN OR PVC, IMPULSE TESTED AT 5000 V.
61. BOLTED CONNECTORS FOR CONDUCTORS AND PIPES: COPPER OR COPPER ALLOY.
62. WELDED CONNECTORS: EXOTHERMIC-WELDING KITS OF TYPES RECOMMENDED BY KIT MANUFACTURER FOR MATERIALS BEING JOINED AND INSTALLATION CONDITIONS.
63. BUS-BAR CONNECTORS: MECHANICAL TYPE, CAST SILICON BRONZE, SOLDERLESS EXOTHERMIC-TYPE WIRE TERMINALS, AND LONG-BARREL, TWO-BOLT CONNECTION TO GROUND BUS BAR.
64. GROUND RODS: COPPER-CLAD STEEL; 3/4 INCH BY 10 FEET (19 MM BY 3 M).
65. PANELBOARDS: NEMA PB 1, LIGHTING AND APPLIANCE BRANCH-CIRCUIT TYPE.

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NOTES:



REVISIONS						BY		DATE	
NO	DATE	DESCRIPTION	BY	CHK	APP	DRN:			
0	07/25/2023	ISSUED FOR CONSTRUCTION	VC	KK	KK	DES:			
						CHK:			
						APP:			
						SCALE:		SZ:	
						DOC NO			

PROJ NO	DWG NO	E-102	REV	0
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BY _____ CHK _____ DISC/EOR _____ APPD _____

LOW COST ANIMAL MEDICAL CENTER
4300 WASHINGTON AVE.
Electrical Notes and Legend

PANEL SCHEDULE: LP												LOCATION:	ELECTRICAL CLOSET
MOUNTING METHOD:	SURFACE											BUS RATING:	400 AMP
ENCLOSURE:	NEMA 1											PHASE:	3
FEED FROM:	MDP											WIRE:	4
												AIC RATING:	42,000
DESCRIPTION	LOAD	CODE	BKR	CIR	A	B	C	CIR	BKR	CODE	LOAD	DESCRIPTION	
EXAM ROOM 7 RECEPTACLES	720.0	2	20	1	1360			2	20	2	640	EXAM ROOM 8 RECEPTACLES	
EXAM ROOM 9 RECEPTACLES	720.0	2	20	3		1440		4	20	2	720	EXAM ROOM 10 RECEPTACLES	
EXAM ROOM 11 RECEPTACLES	720.0	2	20	5			1260	8	20	2	540	EXAM ROOM 12 RECEPTACLES	
LAB RECEPTACLES	720.0	2	20	7	1440			8	20	2	720	LAB RECEPTACLES	
O.R. 2 RECEPTACLES	900.0	2	20	9		1777		10	20	2	877.2	O.R. 2 RECEPTACLES	
O.R. 2 RECEPTACLES	720.0	2	20	11			1260	12	20	2	540	DOG RUNS RECEPTACLES	
O.R. 2 RECEPTACLES	360.0	2	20	13	1260			14	20	2	900	CAT CAGES RECEPTACLES	
XRAY RECEPTACLES	540.0	2	20	15		1260		16	20	2	720	O.R. 2 RECEPTACLES	
DENTAL SUITE RECEPTACLES	360.0	2	20	17			720	18	20	2	360	DENTAL SUITE RECEPTACLES	
MEETING/BUSINESS RECEPTACLES	1080.0	2	20	19	1620			20	20	2	540	BREAK ROOM RECEPTACLES	
BREAK ROOM RECEPTACLES	360.0	2	20	21		720		22	20	2	360	BREAK ROOM RECEPTACLES	
DENTAL SUITE RECEPTACLES	900.0	2	20	23			1620	24	20	2	720	ISOLATION ROOM RECEPTACLES	
LAB RECEPTACLES	900.0	2	20	25	1620			26	20	2	720	EXAM/ISOLATION RECEPTACLES	
LIGHTS - EXAM ROOMS	928.8	1	20	27		3106		28	20	1	1556	LIGHTS - BREAK ROOM	
LIGHTS - DENTAL SUITE	250.0	1	20	29			813	30	20	1	400	LIGHTS - DENTAL SUITE	
LIGHTS - O.R. 2	350.0	1	20	31	1313			32	20	1	700	LIGHTS - O.R. 2	
LIGHTS - OUTSIDE LIGHTS	480.0	1	20	33		1610		34	20	1	807.6	LIGHTS - LAB	
LIGHTS - CAT CAGES	536.0	1	20	35			983	36	20	1	250	LIGHTS - ELECTRICIAN ROOM	
EXHAUST FANS	252.5	4	20	37	686			38	20	2	360	BREAK ROOM RECEPTACLES	
CU-1	2891.2	4		39		9472		40		5	5858	AHU-1	
	2891.2	4		41			9472	42		5	5858		
CU-2	3879.2	4		43	10915			44		5	6066	AHU-2	
	3879.2	4		45		10915		46		5	6066		
CU-3	2891.2	4		47			9472	48		5	5858	AHU-3	
	2891.2	4		49	9472			50		5	5858		
MICROWAVE RECEPTACLE	1600.0	4.1	20	51		2850		52	20	4	1000	REFRIDGERATOR	
MICROWAVE RECEPTACLE	1600.0	4.1	20	53			2850	54	20	4	1000	REFRIDGERATOR	
WASHER / DRYER	346.7	4		55	867			56		4	346.7	WASHER / DRYER	
	346.7	4		57		867		58		4	346.7		
	346.7	4		59			867	60		4	346.7		
					30554	34016	29316						
CODE	DESCRIPTION	LOAD VA	DEM.	TOTAL VA	LOAD SUMMARY			NOTES:					
1	LIGHTING	6258.4	1.25	7823	TOTAL PHASE A: 28360.2			VA					
2	REC. TO 10,000 VA	10000	1	10000	TOTAL PHASE B: 30957.3			VA					
2.1	REC. OVER 10,000 VA	7717.2	0.5	3659	TOTAL PHASE C: 27087.7			VA					
3	MOTOR	0	1	0	TOTAL CODE PHASE A: 30554.3			VA					
3.1	LARGEST MOTOR	0	1.25	0	TOTAL CODE PHASE B: 34016.4			VA					
4	CONTINUOUS	23665.7	1.25	29582	TOTAL CODE PHASE C: 29316.7			VA					
4.1	NON-CONTINUOUS	3200	1	3200									
5	HEATER	35564	1	35564	3 PHASE CONNECTED: 86406.3			VA					
6	KITCHEN	0	1	0	CONNECTED AMPS: 239.8			A					
7	MISCELLANEOUS	0	1	0	3 PHASE CODE DEMAND: 93686.3			VA					
8	SUB PANEL	0	1	0	CONNECTED DEMAND AMPS: 260.6			A					

PANEL SCHEDULE: MDP												LOCATION:	OUTSIDE, REAR OF BUILDING
MOUNTING METHOD:	SURFACE											BUS RATING:	600 AMP
ENCLOSURE:	NEMA 3R											PHASE:	3
FEED FROM:	Utility											WIRE:	4
												AIC RATING:	42,000
DESCRIPTION	LOAD	CODE	BKR	CIR	A	B	C	CIR	BKR	CODE	LOAD	DESCRIPTION	
PANEL LP	30554.3	8			1	45221		2		7	14666.7	EXAM ROOM 8 RECEPTACLES	
	34016.4	8			3		48583		4	400	7	14666.7	EXAM ROOM 10 RECEPTACLES
	29315.7	8			5			43982	6		7	14666.7	EXAM ROOM 12 RECEPTACLES
					7	0			8				LAB RECEPTACLES
SPARE					9	0			10	100			O.R. 2 RECEPTACLES
					11			0	12				DOG RUNS RECEPTACLES
					45221	48583	43982						
CODE	DESCRIPTION	LOAD VA	DEM.	TOTAL VA	LOAD SUMMARY			NOTES:					
1	LIGHTING	0	1.25	0	TOTAL PHASE A: 45221.0			VA					
2	REC. TO 10,000 VA	0	1	0	TOTAL PHASE B: 48683.0			VA					
2.1	REC. OVER 10,000 VA	0	0.5	0	TOTAL PHASE C: 43982.3			VA					
3	MOTOR	0	1	0	TOTAL CODE PHASE A: 45221.0			VA					
3.1	LARGEST MOTOR	0	1.25	0	TOTAL CODE PHASE B: 48683.0			VA					
4	CONTINUOUS	0	1.25	0	TOTAL CODE PHASE C: 43982.3			VA					
4.1	NON-CONTINUOUS	0	1	0									
5	HEATER	0	1	0	3 PHASE CONNECTED: 137886.3			VA					
6	KITCHEN	0	1	0	CONNECTED AMPS: 382.7			A					
7	EXISTING LOADS	44000	1	44000	3 PHASE CODE DEMAND: 137886.3			VA					
8	SUB PANEL	93686	1	93686	CONNECTED DEMAND AMPS: 262.7			A					

LIGHTING FIXTURE SCHEDULE									
TYPE	DESCRIPTION	Lamp Type	Lamp QTY	Lamp Watts	Voltage	Fixture Watts			Fixture VA
F1	2X4 LED BACKLIT FLAT PANEL (SATCO NUVO 65-572 OR APPROVED EQUAL)	LED	N/A	50	120	50			62.5
F2	LED WALL MOUNT EMERGENCY LIGHT, UL 924 LISTED, 90 MINUTE (COOPER SURE LITES APEL SERIES OR APPROVED EQUAL)	LED	N/A	7.2	120	7.2			9
F3	LED EXIT LIGHT (COOPER SURE LITES APX SERIES OR APPROVED EQUAL)	LED	N/A	7.2	120	7.2			9
F4	EXTERIOR LED WALL PACK WITH INTEGRATED PHOTOCCELL (SATCO NUVO 65-756 OR APPROVED EQUAL)	LED	N/A	80	120	80			100
F5	SIRGICAL LIGHTING FIXTURE (SPECIFIED BY OTHERS)	X	N/A	* 250	120	* 250			312.5

X - VALUES NOT PROVIDED.
* - VALUES ARE ASSUMED.

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NOTES:			REVISIONS				BY		DATE		LOW COST ANIMAL MEDICAL CENTER 4300 WASHINGTON AVE. Electrical Schedules
			NO	DATE	DESCRIPTION	BY	CHK	APP	DRN:		
								APP:		PROJ NO: _____ DWG NO: _____ E-103	
								SCALE:	SZ:		
								DOC NO		REV	
			0	07/25/2023	ISSUED FOR CONSTRUCTION	VC	KK	KK		0	



Entergy Inc.
P.O. Box 61000
New Orleans, LA 70161-1000

Darren A Dehesa Sr
Distribution Field Engineering
Tusane Networks
Mail Unit L-TUL-113

June 23, 2023

Subject: 4300 Washington Ave
New Orleans, La

As per your request, please see the following table that provides requested parameter data for your building's services:

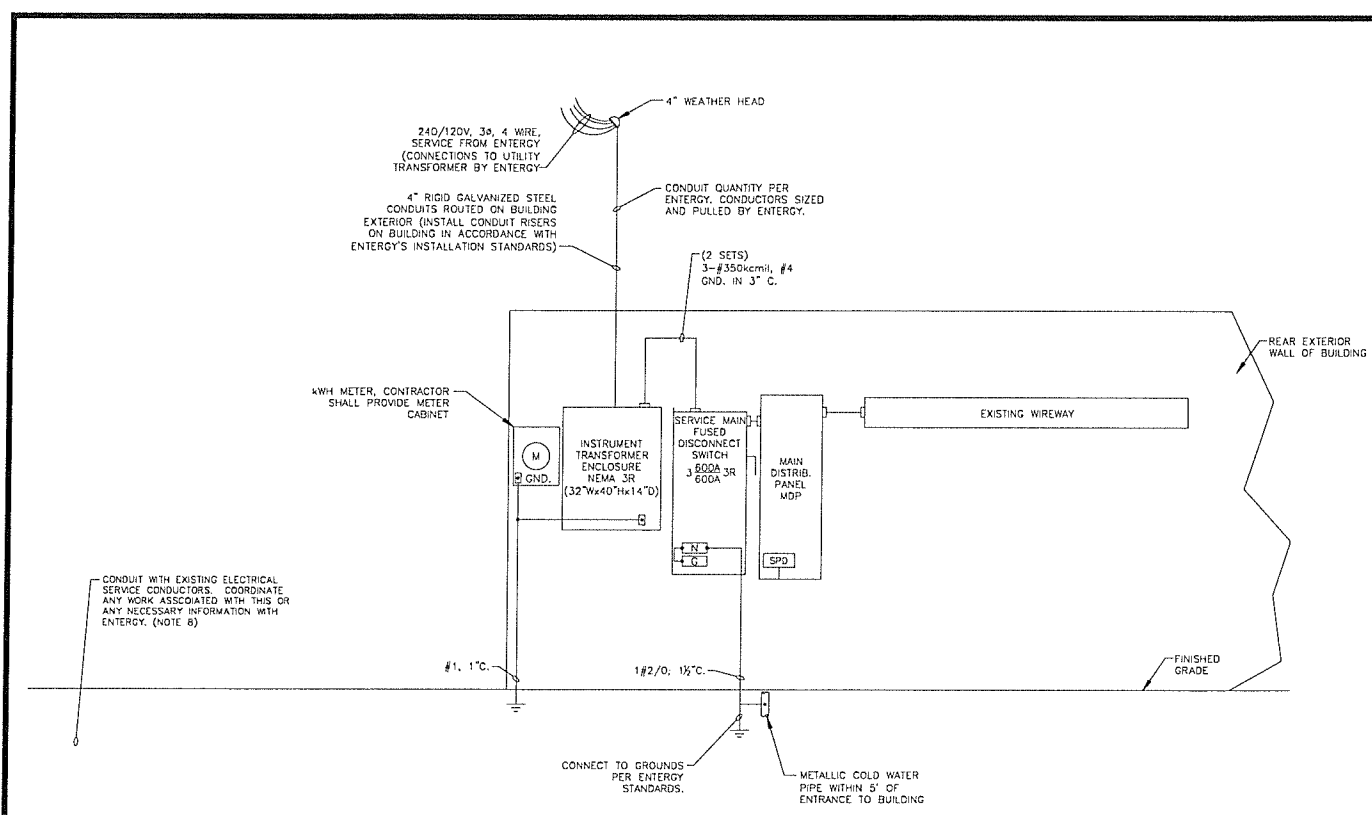
		Joliet - 2025
Substation-Feeder		22.66 / 13.20
Primary Voltage (kV)		
Primary Fault	3 PH	4858
Current - Symmetrical Amps	LLG	4494
	LL	4293
	LG (max)	3463
System Impedance	LG (min)	319
	R1	0.72
	X1	2.56
XFMR (kVA)	X1/R1	3.56
	R0	2.12
	X0	5.74
XFMR LV Rating (V)		120 / 208Y
XFMR Connection		WYE-WYE
XFMR - %IZ		Secondary Fault Current (Amps)
	2.40	17,348

The customer should be aware that the above parameters are currently valid; in the future there is the possibility of changing equipment (transformers, conductor, cable, etc.) thus changing the impedance. While there are no present plans to change facilities serving this customer, Entergy can not guarantee the same impedance for any extended length of time. Therefore, we cannot assure the fault current or motor starting ability will remain constant.

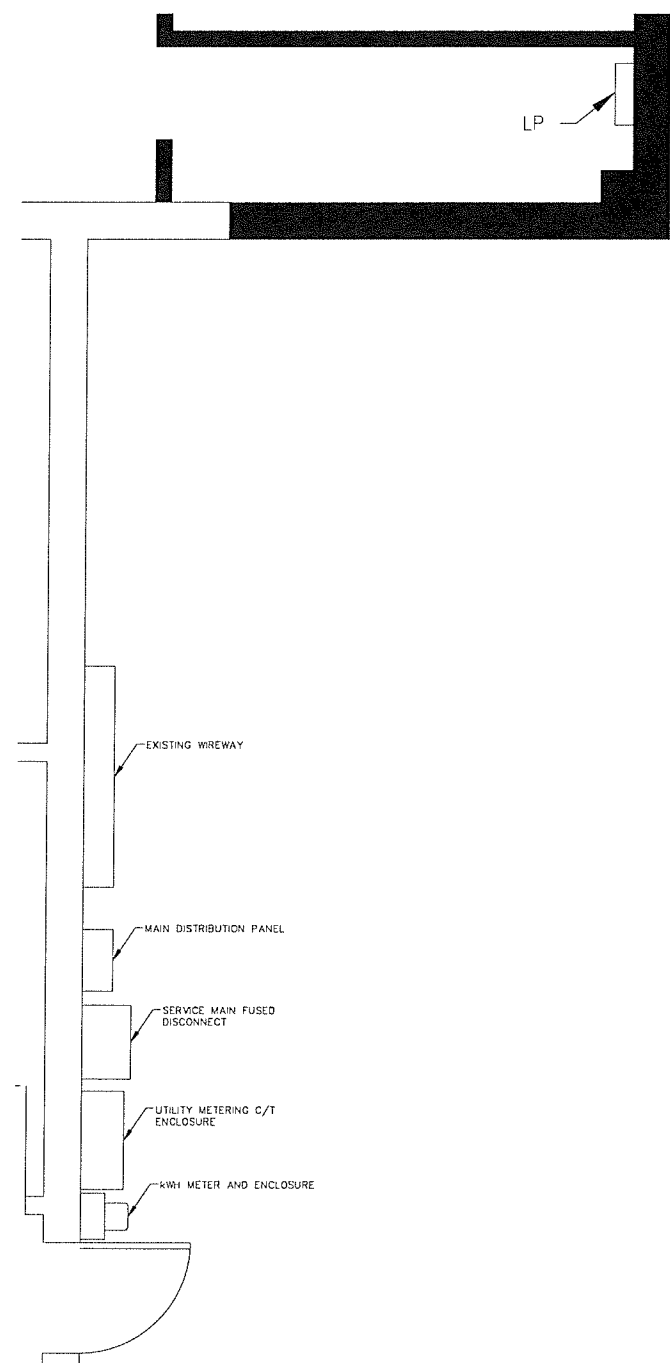
I hope the above information answers most of your concerns. If you need to discuss this further, please contact me at 504-415-1599.

Sincerely,

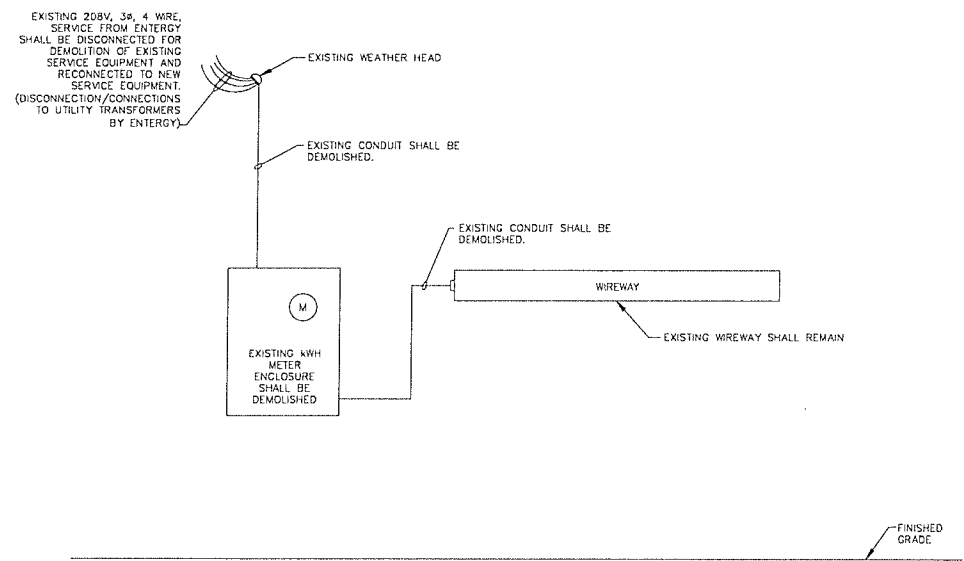
Darren A Dehesa Sr
Darren A Dehesa Sr
Distribution Field Engineering



BUILDING ELECTRICAL RISER DIAGRAM
SCALE: NOT TO SCALE



ENLARGED UTILITY SERVICE AND DISTRIBUTION EQUIPMENT PLAN
SCALE: NOT TO SCALE



EXISTING SERVICE DEMOLITION PLAN
SCALE: NOT TO SCALE

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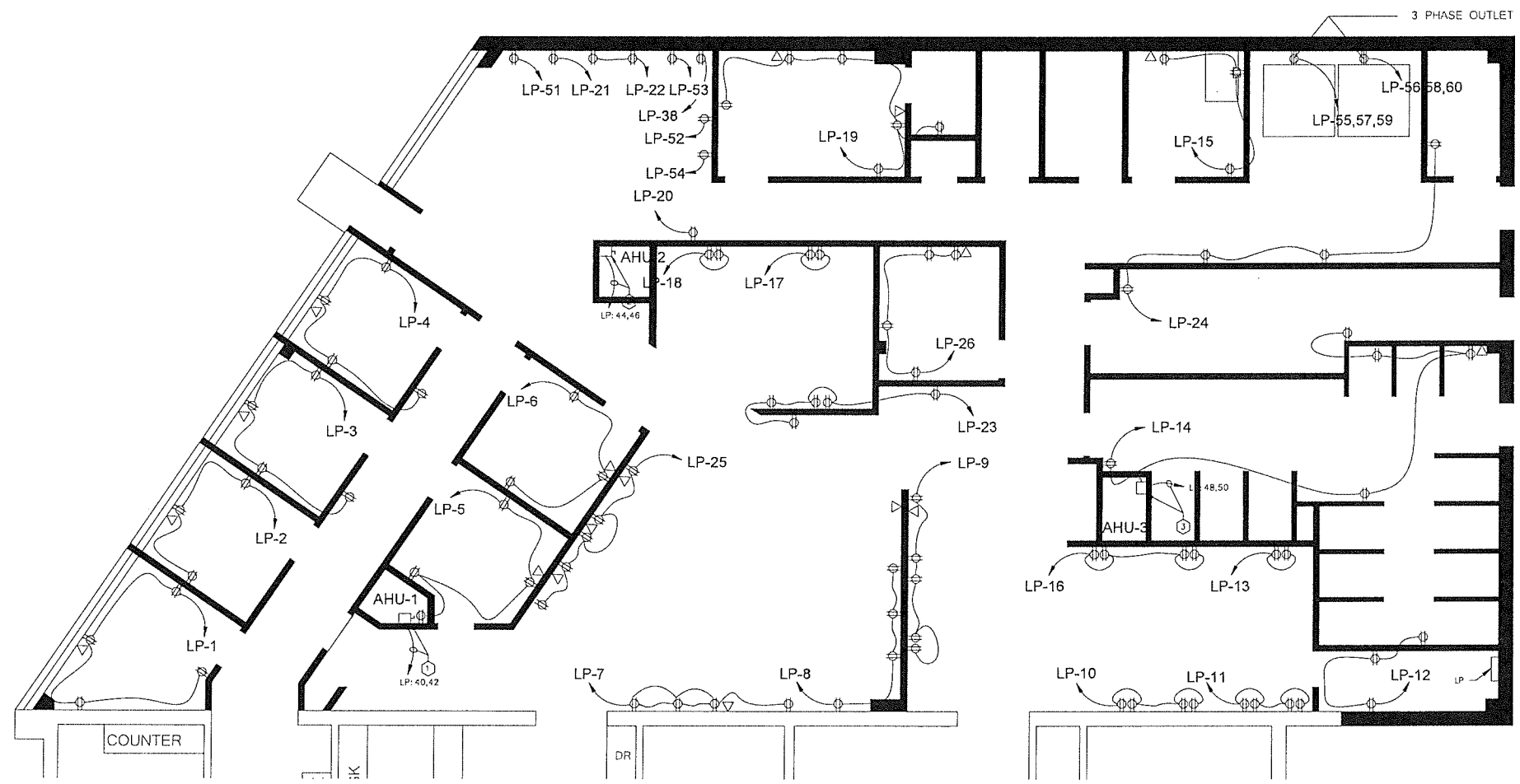
- NOTES:
- COORDINATE UTILITY SERVICE MODIFICATIONS WITH UTILITY COMPANY
 - COORDINATE SIZES, INSTALLATIONS OF SERVICE EQUIPMENTS, AND CIRCUITING WITH UTILITY COMPANY.



REVISIONS					BY		DATE	
NO	DATE	DESCRIPTION	BY	CHK	APP	DRN:		
0	07/25/2023	ISSUED FOR CONSTRUCTION	VC	KK	KK			

LOW COST ANIMAL MEDICAL CENTER
4300 WASHINGTON AVE.
Electrical Details

PROJ NO	DWG NO	REV
	E-104	0



POWER PLAN

SCALE: 3/16"=1'-0"

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







- NOTES:**
- AHU-1; 3#6, 1#10 GND., IN 1-1/2" CONDUIT; FUSED DISCONNECT SWITCH, NEMA 3R, 60A, 240V, 1-PHASE, WITH 60A FUSES.
 - AHU-2; 3#8, 1#10 GND., IN 1-1/2" CONDUIT; FUSED DISCONNECT SWITCH, NEMA 3R, 60A, 240V, 1-PHASE, WITH 40A FUSES.
 - AHU-3; 3#6, 1#10 GND., IN 1-1/2" CONDUIT; FUSED DISCONNECT SWITCH, NEMA 3R, 60A, 240V, 1-PHASE, WITH 60A FUSES.
 - CONTRACTOR SHALL ADJUST CIRCUIT SIZE TO ACCOUNT FOR VOLTAGE DROP ASSOCIATED WITH INSTALLED CIRCUIT LENGTH.
 - WATER HEATERS: WATER HEATERS ARE GAS, PER OWNER, FEEDER SIZES SHALL BE BASED ON 120V/20A CIRCUIT FOR CONTROLS ONLY. PROVIDE 3#12, 1#12 GND., IN 3/4" CONDUIT; FUSED DISCONNECT SWITCH, NEMA 3R, 30A, 240V, 3-PHASE, 3-WIRE, WITH 20A FUSES. CONTRACTORS SHALL ADJUST CIRCUIT SIZE TO ACCOUNT FOR VOLTAGE DROP ASSOCIATED WITH INSTALLED CIRCUIT LENGTH. PROVIDE FUSED DISCONNECT SWITCH AND RECEPTACLE AT EACH WATER HEATER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - ALL WATER HEATERS SHALL BE ELECTRICALLY GROUNDED IN ACCORDANCE WITH NFPA 70.

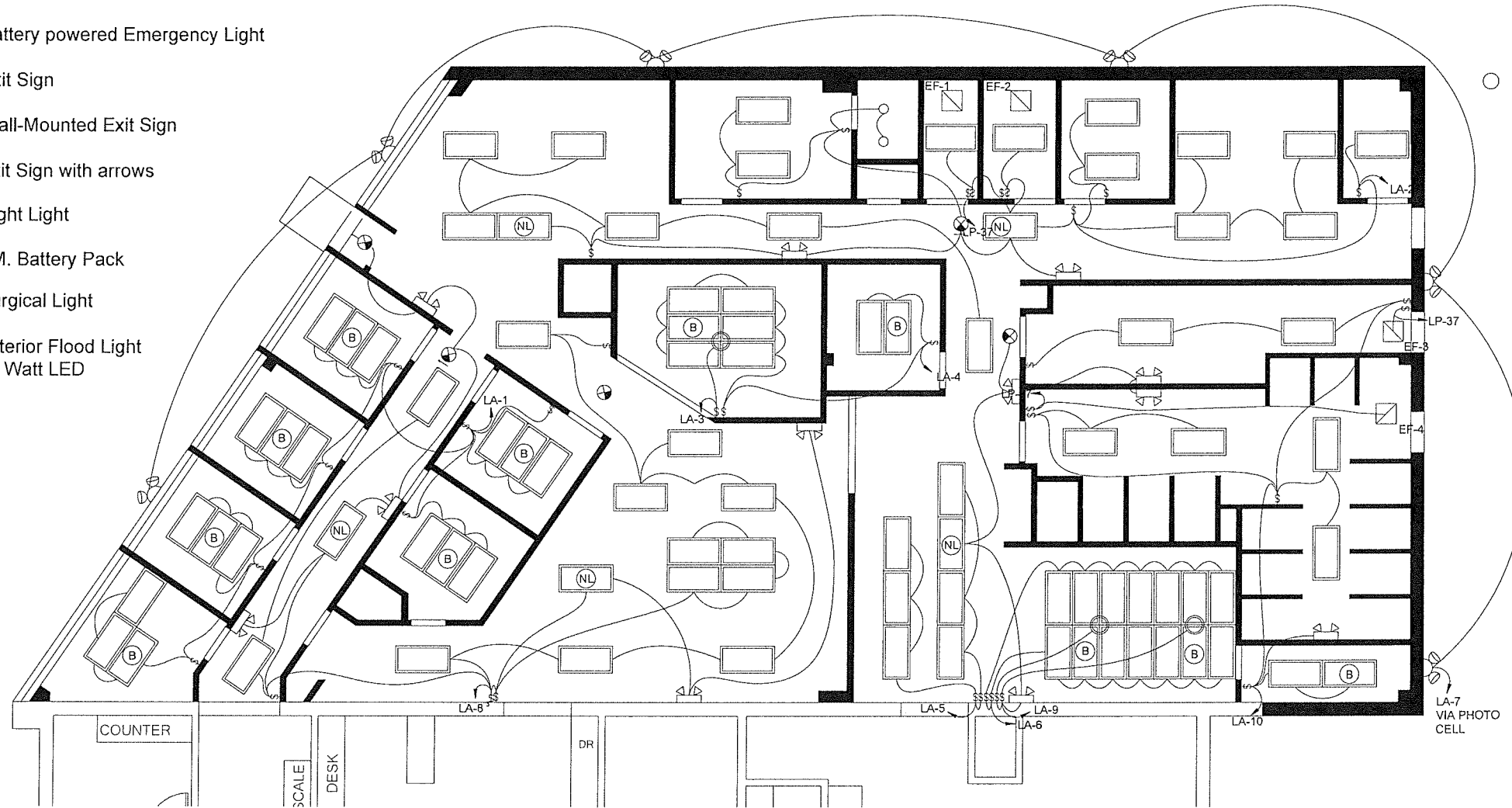


REVISIONS					BY		DATE	
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0	07/25/2023	ISSUED FOR CONSTRUCTION	VC	KK	KK	DES:		
						CHK:		
						APP:		
						SCALE:		SZ:
						DOC NO		

LOW COST ANIMAL MEDICAL CENTER 4300 WASHINGTON AVE. Power Plan			
PROJ NO	DWG NO	E-105	REV 0

BY _____ CHK _____ DISC/EOR _____ APPD _____

-  2x4 Light
-  Battery powered Emergency Light
-  Exit Sign
-  Wall-Mounted Exit Sign
-  Exit Sign with arrows
-  Night Light
-  EM. Battery Pack
-  Surgical Light
-  Exterior Flood Light 30 Watt LED



LIGHTING PLAN

SCALE: 3/16"=1'-0"

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NOTES:

1. LIGHTING FIXTURES ARE SPECIFIED BY OTHERS. LIGHTING LEVEL CALCULATIONS (FOOT CANDLES/LUMENS/LUX) ARE BY OTHERS. THESE DRAWINGS ARE TO PROVIDE POWER ONLY TO LIGHTING FIXTURES/CIRCUITS.
2. LIGHTING FIXTURES AND ASSOCIATED SUPPORTS, ETC. SPECIFIED BY OTHERS. INSTALL LIGHTING FIXTURES PER MANUFACTURERS' INSTALLATION INSTRUCTIONS AND/OR RECOMMENDATIONS. COORDINATE LIGHTING FIXTURE SUPPORTS WITH STRUCTURAL, ARCHITECTURAL, AND OTHER TRADES AS APPLICABLE TO PROVIDE COMPLETE AND SAFE INSTALLATION.



NEW ORLEANS, LA
WWW.KING-ENGINEERS.COM
504-399-1141

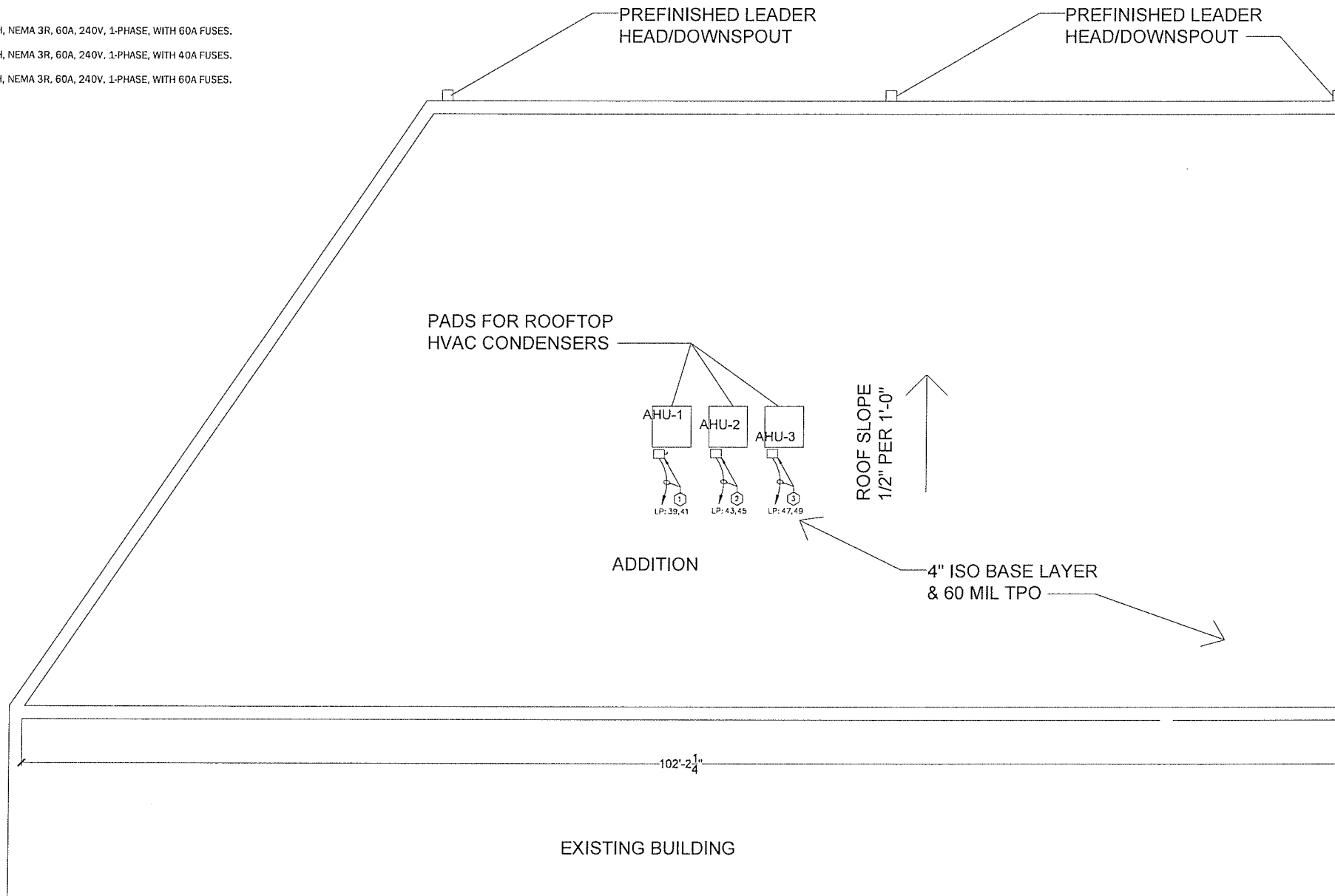
REVISIONS					BY		DATE	
NO	DATE	DESCRIPTION	BY	CHK	APP	DRN:		
0	07/25/2023	ISSUED FOR CONSTRUCTION	VC	KK	KK	DES:		
						CHK:		
						APP:		
						SCALE:		SZ:
						DOC NO		

LOW COST ANIMAL MEDICAL CENTER 4300 WASHINGTON AVE. Lighting Plan			
PROJ NO	DWG NO	E-106	REV 0

BY _____ CHK _____ DISC/EOR _____ APPD _____

ELECTRICAL SPECIFIC NOTES (THIS SHEET):

1. CU-1: 3#6, 1#10 GND., IN 1-1/2" CONDUIT; FUSED DISCONNECT SWITCH, NEMA 3R, 60A, 240V, 1-PHASE, WITH 60A FUSES.
2. CU-2: 3#8, 1#10 GND., IN 1-1/2" CONDUIT; FUSED DISCONNECT SWITCH, NEMA 3R, 60A, 240V, 1-PHASE, WITH 40A FUSES.
3. CU-3: 3#6, 1#10 GND., IN 1-1/2" CONDUIT; FUSED DISCONNECT SWITCH, NEMA 3R, 60A, 240V, 1-PHASE, WITH 60A FUSES.



ROOF PLAN

SCALE: 3/16" = 1'-0"

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NOTES:



REVISIONS					BY		DATE	
NO	DATE	DESCRIPTION	BY	CHK	APP	DRN:		
0	07/25/2023	ISSUED FOR CONSTRUCTION	VC	KK	KK	DES:		
						CHK:		
						APP:		
						SCALE:		SZ:
						DOC NO		

LOW COST ANIMAL MEDICAL CENTER
4300 WASHINGTON AVE.
ROOF PLAN

PROJ NO	DWG NO	E-107	REV	0
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BY _____ CHK _____ DISC/EOR _____ APPD _____

2x4 Light

Battery Powered Emergency Light

Exit Sign

Wall-Mounted Exit Sign

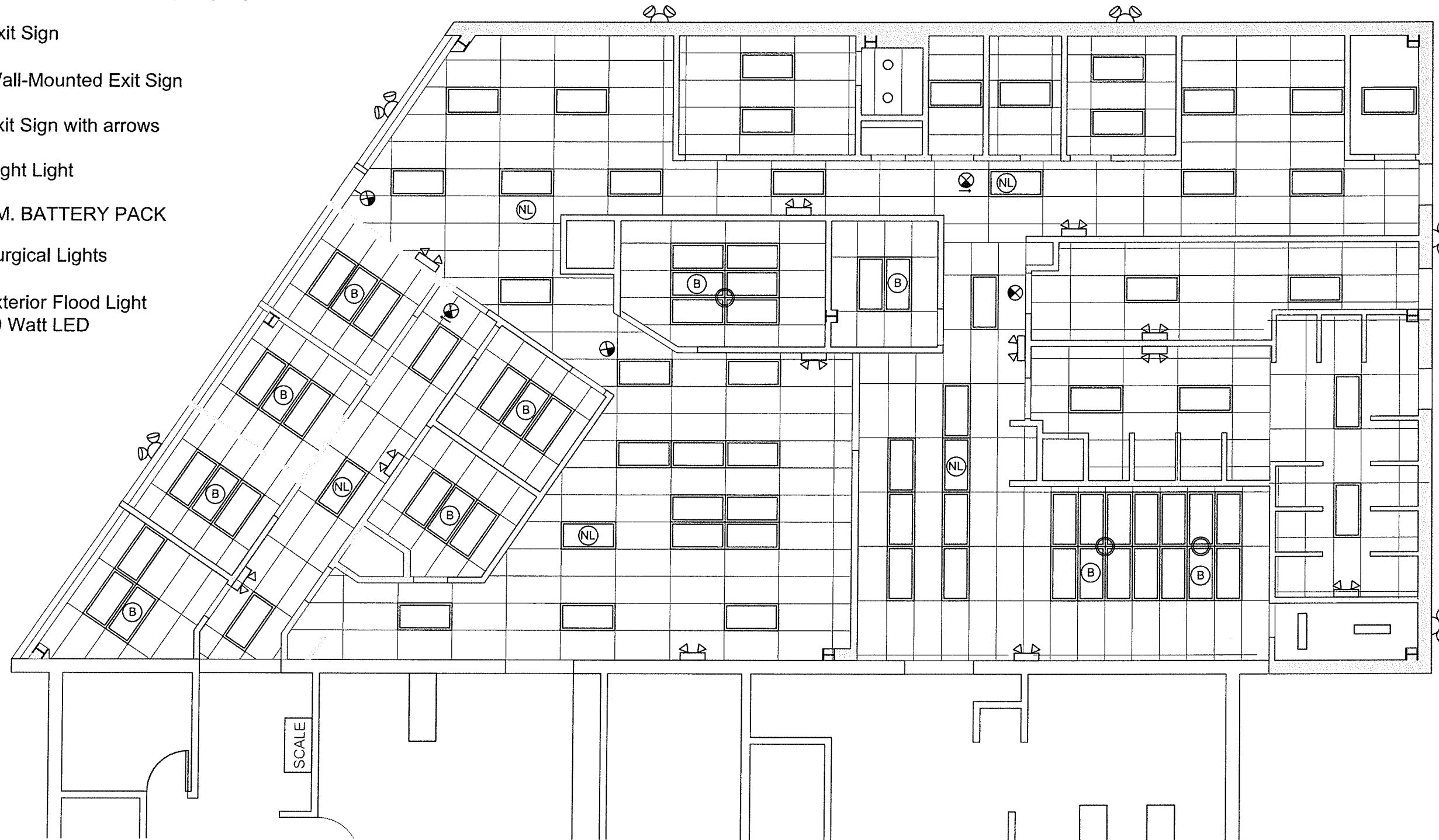
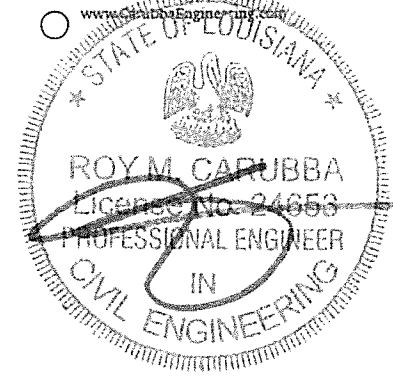
Exit Sign with arrows

Night Light

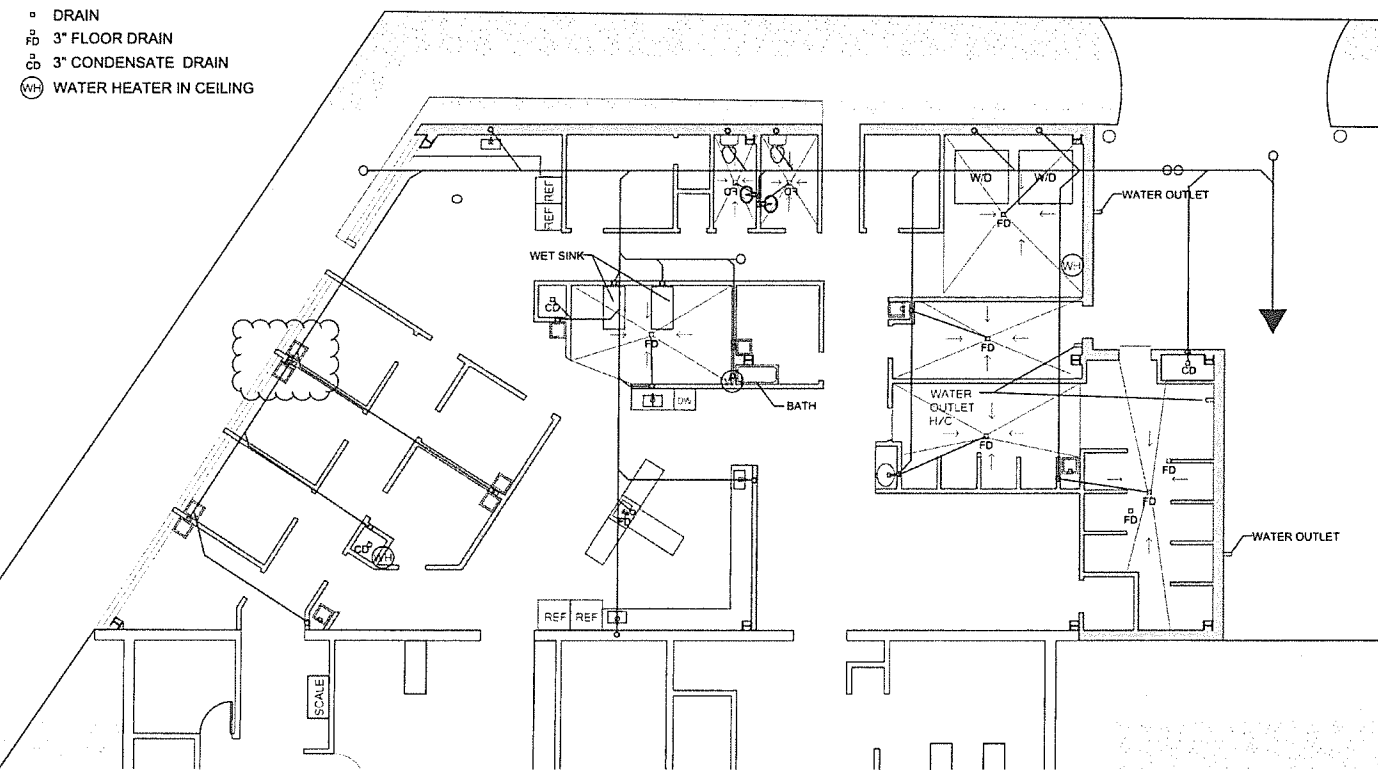
EM. BATTERY PACK

Surgical Lights

Exterior Flood Light
30 Watt LED



Low Cost Animal Center
Reflected Ceiling Plan: 1" = 8'-0"



Low Cost Animal Center
 Plumbing Plan: 1/8" = 1'-0"

LOW COST ANIMAL MEDICAL CENTER

4300 WASHINGTON AVE., NEW ORLEANS, LA 70125



Designed:	
Drawn:	GLC
Checked:	CMR
Approved:	CMR
Scale:	SHOWN
Date:	08-16-23
Project No:	
Sheet No:	P1

R&A Rabensteiner and Associates, LLC
 CONSULTING ENGINEERS
 mechanical plumbing fire protection
 122 Woodbridge Ct.
 Madisonville, La. 70471
 (805) 264-4031

PROJECT NOTES

GENERAL:

1. THE INSTALLATION SHALL COMPLY WITH ALL LAWS APPLYING TO WORK IN EFFECT.
2. THE CONTRACTOR IS URGED TO VISIT AND TO EXAMINE THE JOB SITE IN ORDER TO BECOME MORE FAMILIAR WITH ALL EXISTING CONDITIONS PERTINENT TO WORK TO BE PERFORMED THEREON. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO BE SO INFORMED.
3. ALL CONSTRUCTION WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND METHODS AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE STATE, CITY CODES, AND STANDARDS.
4. ANY DISCREPANCY WITHIN THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OR BUILDING REPRESENTATIVE PRIOR TO WORK COMMENCEMENT. WORK SHALL NOT CONTINUE UNTIL THE DISCREPANCY HAS BEEN RESOLVED.
5. ALL WORK SHALL BE COMPLETED IN A MANNER CONSISTENT WITH GOOD MECHANICAL PRACTICE AND THE REQUIREMENTS OF THE MECHANICAL CODE. ANY WORK NOT ACCEPTABLE TO THE OWNER SHALL BE REMOVED AND REPLACED AS NECESSARY, AT NO COST TO THE OWNER.
6. COORDINATE WORK WITH THAT OF OTHER TRADES AFFECTING OR AFFECTED BY WORK OF THIS SECTION. COOPERATE WITH SUCH TRADES TO ASSURE THE STEADY PROGRESS OF ALL WORK UNDER THE CONTRACT.
7. THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CONTRACT SCHEDULE ESTABLISHED.
8. THE CONTRACT DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO ENCOMPASS A SYSTEM THAT WILL NOT INTERFERE WITH THE STRUCTURAL AND ARCHITECTURAL DESIGN OF THE BUILDING. COORDINATE THE WORK TO AVOID INTERFERENCE BETWEEN PIPING, EQUIPMENT, ARCHITECTURAL, AND STRUCTURAL WORK.
9. ALL CLEARANCES FOR HVAC UNITS, DUCTWORK, PIPING, DRAINAGE AND ELECTRICAL TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. ANY DISCREPANCIES OR ISSUES TO BE ADDRESSED AT THIS STAGE.

CODES, STANDARDS, AND PERMITS:

1. PERFORM WORK IN ACCORDANCE WITH THE ACCEPTED EDITION, REVISION, AMENDMENT, OR SUPPLEMENT OF APPLICABLE STATUTES, ORDINANCES, CODES, OR REGULATIONS OF THE NATION, STATE, COUNTY, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.
2. WHEN APPROVAL STANDARDS HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITER'S LABORATORIES, INTERNATIONAL MECHANICAL CODES, ASME, AGA, AMCA, ASA, ASHRAE, ARI, CSA, ETL, FN, NEC, AND NFPA, THESE STANDARDS SHALL BE FOLLOWED WHETHER OR NOT INDICATED ON THE CONTRACT DRAWINGS AND SPECIFICATIONS. INCLUDE THE COST OF ALL WORK REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THESE AUTHORITIES.
3. ALL WORK SHALL COMPLY WITH THE LATEST STATE AND CITY CODES INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - 3.1. INTERNATIONAL MECHANICAL CODE - 2021
 - 3.2. INTERNATIONAL FUEL GAS CODE - 2021
 - 3.3. ANS/ASHRAE/IESNA 90.1 - 2007
 - 3.4. NFPA 30 - 2012
 - 3.5. NFPA 45 - 2011
 - 3.6. NFPA 55 - 2013
 - 3.7. NFPA 70 - 2011
 - 3.8. NFPA 72 - 2013
 - 3.9. NFPA 90A - 2012
 - 3.10. NFPA 90B - 2012
 - 3.11. NFPA 96 - 2011
 - 3.12. NFPA 101 - 2012
 - 3.13. THE CONTRACT DOCUMENTS

REFRIGERANT PIPING:

1. ALL REFRIGERANT PIPING TO BE TYPE ACR COPPER TUBING AS REQUIRED.
2. REFRIGERANT PIPING INDICATED ON THE DRAWINGS IS SCHEMATIC ONLY. EQUIPMENT MANUFACTURERS REPRESENTATIVE TO SIZE PIPING AND FINAL DESIGN OF THE ACTUAL PIPING LAYOUT, INCLUDING TRAPS, DOUBLE RISERS, SPECIALTIES, PIPE AND TUBE SIZE, TO ENSURE PROPER OPERATION AND COMPLIANCE WITH WARRANTIES OF CONNECTED EQUIPMENT.
3. IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO WORK WITH THE EQUIPMENT MANUFACTURERS REPRESENTATIVE IN ORDER TO DETERMINE THE REQUIRED REFRIGERANT PIPE SIZING, ROUTING, LENGTHS OF RUN, SLOPES, TRAPS, ETC. FOR PROPER INSTALLATION. DOCUMENTATION OF THE MANUFACTURERS RECOMMENDATIONS BASED SPECIFICALLY ON THE PROJECT SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER.

MECHANICAL INSULATION AND JACKETING:

1. ALL REFRIGERANT LINES TO BE INSULATED WITH A MINIMUM OF 3/4" THICK CLOSED CELL ELASTOMERIC INSULATION. EXTERIOR REFRIGERANT LINES TO BE INSULATED WITH A MINIMUM OF 1" THICK CLOSED CELL ELASTOMERIC INSULATION WITH PVC JACKETING. ALL CONDENSATE DRAIN LINE PIPING TO BE INSULATED WITH A MINIMUM OF 1/2" THICK CLOSED CELL ELASTOMERIC INSULATION.
2. CONTRACTOR SHALL MODIFY INSULATION TO PROVIDE A CLEAN STRAIGHT LOOK OVER FITTINGS. INSULATION THICKNESS AND CONDUCTIVITY SHALL MEET THE MINIMUM REQUIRED BY THE CURRENT ENERGY CODE.

SERVICE:

1. IMMEDIATELY PRIOR TO FINAL ACCEPTANCE OF PROJECT, INSPECT, CLEAN, AND TEST ALL SYSTEMS AS DESCRIBED IN THE DRAWING AND ALL ASSOCIATED SPECIFICATIONS.
2. PLACE ALL SYSTEMS IN COMPLETE WORKING ORDER, AND CLEAN EQUIPMENT AND MATERIALS THOROUGHLY RETURNING TO 'AS NEW' CONDITION PRIOR TO REQUEST FOR FINAL REVIEW. REMOVE ALL EXCESS MATERIALS AND DEBRIS. LEAVE ALL AREAS 'BROOM CLEAN'.

SUBMITTALS:

1. THE MECHANICAL CONTRACTOR TO PROVIDE REVIEWED EQUIPMENT SUBMITTALS TO THE CONSTRUCTION MANAGER. NO EQUIPMENT SHALL BE ORDERED UNTIL SUBMITTALS HAVE BEEN APPROVED, SIGNED, AND DATED.

OPERATION AND MAINTENANCE MANUALS:

1. FURNISH COPIES OF COMPLETE OPERATION AND MAINTENANCE INSTRUCTIONS, SERVICE MANUALS, AND PARTS LIST APPLICABLE TO EACH MANUFACTURED ITEM OF THE EQUIPMENT FURNISHED. BIND OPERATION AND MAINTENANCE INFORMATION IN HEAVY DUTY LOOSE-LEAF BINDERS.

OPERATING INSTRUCTIONS:

1. PROVIDE THE SERVICES OF COMPETENT REPRESENTATIVES OF THE MANUFACTURER CAPABLE OF CERTIFYING THAT THE EQUIPMENT IS INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, IS OPERATING PROPERLY, AND TO INSTRUCT OPERATING PERSONNEL DURING THE START-UP AND OPERATING TESTS OF THE COMPLETE MECHANICAL SYSTEMS. PROVE THE OPERATION OF EQUIPMENT TO THE SATISFACTION OF CONSTRUCTION MANAGER. GIVE AT LEAST SEVEN DAYS NOTICE TO CONSTRUCTION MANAGER PRIOR TO BEGINNING EQUIPMENT START-UP.

MECHANICAL GENERAL NOTES:

1. THE INSTALLATION SHALL COMPLY WITH ALL LAWS APPLYING TO WORK IN EFFECT. THE CONTRACTOR SHALL OBTAIN AND PAY ALL NECESSARY PERMITS, AND AFTER COMPLETION, FURNISH OWNER CERTIFICATIONS OF FINAL INSPECTIONS AND APPROVAL AS ISSUED BY THE INSPECTION DEPARTMENT OF THE PARISH.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CERTIFICATES OF INSPECTION, BOTH AT ROUGH-IN AND COMPLETION.
3. THE CONTRACTOR IS URGED TO VISIT AND TO EXAMINE THE JOB SITE IN ORDER TO BECOME MORE FAMILIAR WITH ALL EXISTING CONDITIONS PERTINENT TO WORK TO BE PERFORMED THEREON. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO BE SO INFORMED.

MECHANICAL NOTES: H.V.A.C.

GENERAL:

1. REFER TO MECHANICAL PLANS FOR FULL DESIGN, NOTES AND DETAILS.
2. ALL WORK SHALL BE PER IBC MECHANICAL, NEC, NFPA, UL, STATE, LOCAL INSPECTORS AND OTHER APPLICABLE CODES.
3. ALL HVAC SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH 101: 9.2., LIFE SAFETY CODE.
4. ALL MECHANICAL INSTALLATIONS MUST MEET COMMERCIAL STANDARDS INCLUDING HEATING, COOLING, DUCTWORK, ETC., AND THAT THESE INSTALLATIONS MUST BE TYPICALLY ACCESSIBLE, AS REQUIRED.
5. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY DIRECTED OTHERWISE IN WRITING.
6. CASSETTE TYPE INDOOR UNITS LOCATED IN A CEILING SPACE WITH TEMPERATURES ABOVE 80°F AND HUMIDITY OVER 80%, APPLY AN ADDITIONAL 1" THICK POLYETHYLENE INSULATION OR A SIMILAR INSULATION TO THE BODY OF THE INDOOR UNIT.
7. MAINTAIN EQUIPMENT CLEARANCES AND ACCESS REQUIREMENTS AS PER THE MANUFACTURER'S RECOMMENDATIONS.
8. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH GENERAL PRACTICES.
9. DOORS TO BE UNDERCUT 3/4" FOR PASSAGE AND MOVEMENT OF RETURN AIR AND OUTSIDE AIR AS ALLOWED.
10. GUARANTEE ALL LABOR AND MATERIAL FOR ONE YEAR FROM DATE OF ACCEPTANCE. REGISTER ALL EQUIPMENT WITH MANUFACTURER NO MORE THAN ONE WEEK AFTER INSTALLATION TO ENSURE WARRANTY. PROVIDE PROOF OF REGISTRATION TO BUILDING OWNER.
11. ELECTRICAL CONTRACTOR SHALL DO ALL POWER AND HIGH VOLTAGE WIRING. MECHANICAL CONTRACTOR SHALL DO LOW VOLTAGE CONTROL WIRING.
12. ROOFER SHALL PROVIDE PITCH POCKETS AND INSTALL ROOF CURBS, JACKS, ETC. AS REQUIRED. CONFIRM ALL WORK WITH THE BUILDING OWNER.
13. PROVIDE OPERATING AND MAINTENANCE INSTRUCTIONS INCLUDING WIRING DIAGRAM AND SERVICE MANUAL. FURNISH APPROVED OPERATING INSTRUCTIONS. MARK ALL DEVICES. INSTRUCT OWNER IN CARE AND OPERATION OF ALL EQUIPMENT.

DUCTWORK NOTES:

1. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, AND VOLUME DAMPERS ARE INDICATED ON THE CONTRACT DOCUMENTS FOR CLARITY AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.
2. CONTRACTOR SHALL VERIFY CLEARANCE REQUIREMENTS AND ROUTING OF DUCTWORK BEFORE FABRICATION BEGINS, AS DUCT RISES AND DROPS MAY BE NECESSARY DUE TO FIELD CONDITIONS.
3. DUCTWORK SHALL BE GALVANIZED STEEL. CONSTRUCTION DETAILS AND GAUGES SHALL BE ACCORDING TO NFPA BULLETIN 90A, AND SMACNA DUCT MANUAL. USE TURNING VANES AT CORNERS AND TEES; PROVIDE FRESH AIR DAMPERS AT OUTSIDE AIR INTAKES AND WHERE REQUIRED BY CODE.
4. ALL INTERIOR SUPPLY AND RETURN AIR DUCTS TO BE EXTERNALLY WRAPPED WITH 1.5" THICK R6 INSULATION.
5. ALL RIGID ROUND AIR DUCT TO BE EXTERNALLY WRAPPED WITH 1.5" R6 INSULATION.
6. ALL DUCTWORK, TURNING VANES, VOLUME DAMPERS, AND DUCT SUPPORTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT STANDARDS.
7. DUCTWORK SEAMS AND FLANGES SHALL BE SEALED AS REQUIRED. DUCTWORK INTERIOR TO THE BUILDING SHALL BE CLEAN AND DEVOID OF ANY MARKS OR DENTS.
8. DUCTWORK 90 DEGREE TURNS AND TEES SHALL BE EQUIPPED WITH TURNING VANES TO MINIMIZE STATIC PRESSURE LOSS AND POTENTIAL FOR NOISE. THIS IS NOT REQUIRED IN THE CASE OF LONG RADIUS ELBOWS.
9. ROUTING OF SHEET METAL DUCTWORK TO BE FIELD VERIFIED. EQUIVALENT DUCTWORK SIZING MAY BE USED IN ORDER TO MAINTAIN ARCHITECTURAL CEILING HEIGHT.
10. PRE-INSULATED FLEXIBLE AIR DUCT MEETING CLASS 1 OF UL STANDARD 181 MAY BE USED FOR LENGTHS NOT TO EXCEED 6 FEET TO CONNECT CEILING DIFFUSERS TO SUPPLY DUCT. ALL LOW PRESSURE ROUND FLEXIBLE DUCT TO HAVE 1.5" THICK INSULATION WITH AN R6 RATING.
11. PROVIDE START COLLARS WITH INTEGRAL MANUAL VOLUME DAMPERS AT EACH LOW PRESSURE DUCT CONNECTION.
12. CAULK AND SEAL ALL SHEET METAL JOINTS AND CONNECTIONS BEFORE INSULATING. FLASH AND SEAL ALL WALL PENETRATIONS.
13. LISTED DUCTWORK DIMENSIONS INDICATE CLEAR INSIDE DIMENSIONS.
14. BALANCE ALL AIR FLOWS TO INDICATED CFM WITHIN 10%. PROVIDE WRITTEN DOCUMENTATION AND TAB REPORT.

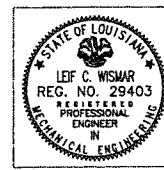
PIPING NOTES:

1. EXPOSED REFRIGERANT PIPING TO BE ACR HARD DRAWN COPPER, CLEANED CAPPED AND DEOXIDIZED, WITH WROUGHT COPPER SOLDER FITTINGS.
2. PRESSURE TEST THE COMPLETED REFRIGERANT SYSTEM WITH DRY NITROGEN. MAINTAIN 200 PSI FOR A 24 HOUR DURATION WITH NO LEAKS. PROVIDE DOCUMENTATION INCLUDING TIME, DATE STAMP.
3. EVACUATE THE REFRIGERATION SYSTEM LINE SETS TO LESS THAN 500 MICRONS BEFORE INITIAL REFRIGERANT CHARGE IS INSTALLED.
4. PROVIDE AND INSTALL TRAPEZE PIPE HANGERS EVERY 8' ON CENTER. HANGERS SHALL BE CONSTRUCTED OF UNISTRUT, ALL THREAD RODS, WASHERS AND CLAMPS (TYPICAL). HANG PIPE AS HIGH AS POSSIBLE OFFSET AS REQUIRED TO AVOID CONFLICTS WITH OTHER TRADES.
5. FOR ALL INTERIOR REFRIGERATION PIPING, INSULATE WITH 3/4" THICK CELLULOSE INSULATION (ARMAFLEX). GLUE ALL JOINTS. DO NOT TAPE JOINTS. FOLLOW MANUFACTURERS INSTALLATION PROCEDURES. ENSURE ALL REFRIGERANT LINE INSULATION IS PROPERLY SIZED WITH NO GAPS.
6. FIELD ROUTE PIPING LAYOUT TO AVOID OBSTACLES AS NEEDED.



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Leif C. Wismar, P.E., C.E.M.
MECHANICAL ENGINEER

LOW COST ANIMAL MEDICAL CENTER
 ADDITION MECHANICAL PLAN
 4500 WASHINGTON AVENUE
 NEW ORLEANS, LA 70125



job no. _____

drawn by
DC

checked by
LW

date	_____
for	_____
revisions	_____
no	_____
for	_____
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sheet contents
HVAC MECHANICAL NOTES

M100

1. All work shall be done in accordance with the current editions of the applicable codes and standards listed herein. 2. The contractor shall be responsible for obtaining all necessary permits and approvals. 3. The contractor shall be responsible for the accuracy of the information provided herein.

HVAC LEGEND	
SYMBOL	DESCRIPTION
S/A	SUPPLY AIR
R/A	RETURN AIR
CFM	CUBIC FEET PER MINUTE
OSA	OUTSIDE AIR
AHU	AIR HANDLING UNIT / FAN COIL UNIT
DOAU	DEDICATED OUTDOOR AIR UNIT
CU	CONDENSING UNIT
EF	EXHAUST FAN
☐	CEILING DIFFUSER - SQUARE
☐	RETURN AIR GRILLE OR REGISTER
☐	EXHAUST AIR GRILLE OR REGISTER
○	ROUND DUCT
MVD	MANUAL VOLUME DAMPER
MVD	MOTOR OPERATED DAMPER
⊖	THERMOSTAT
FD	FIRE DAMPER

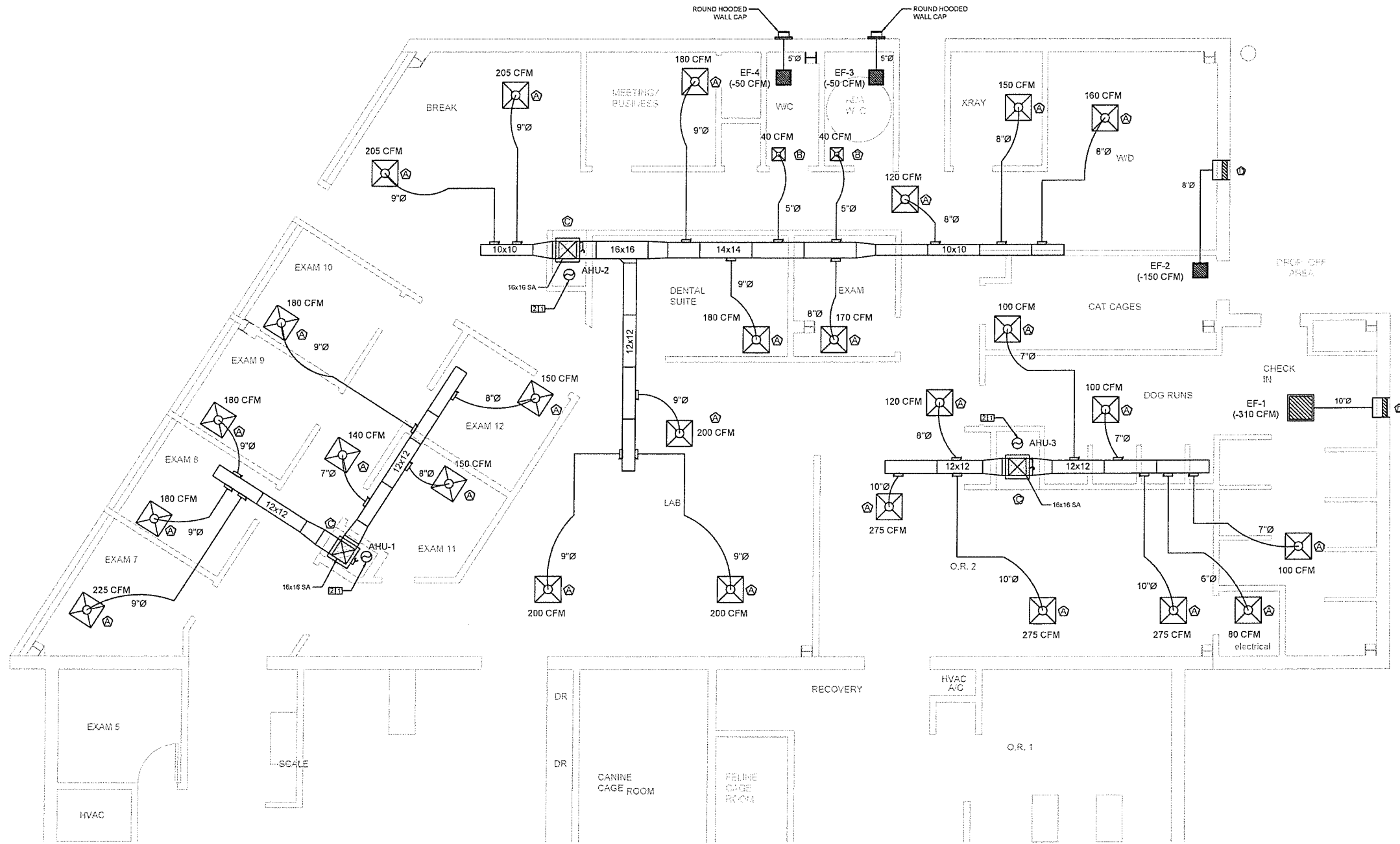
GENERAL NOTES:

1. LISTED DUCTWORK DIMENSIONS INDICATE INTERNAL, FREE AREA DIMENSIONS.
2. ALL INTERIOR SUPPLY AND RETURN AIR DUCTS TO BE EXTERNALLY WRAPPED WITH 1.5" THICK R6 INSULATION.
3. ALL RIGID ROUND AIR DUCT TO BE EXTERNALLY WRAPPED WITH 1.5" R6 INSULATION.
4. THESE PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL INCLUDE APPROPRIATE ALLOWANCES FOR OFFSETS AS REQUIRED TO ACCOMMODATE HORIZONTAL AND VERTICAL VARIATIONS IN THE LOCATIONS AND ELEVATIONS OF DUCTWORK, PIPING, ETC.
5. ALL DUCTWORK, TURNING VANES, VOLUME DAMPERS, AND DUCT SUPPORTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT STANDARDS.
6. ROUTING OF SHEET METAL DUCTWORK TO BE FIELD VERIFIED. EQUIVALENT DUCTWORK SIZING MAY BE USED IN ORDER TO MAINTAIN ARCHITECTURAL CEILING HEIGHT.
7. LOW PRESSURE ROUND FLEXIBLE DUCT TO HAVE 1.5" THICK INSULATION WITH AN R6 RATINGS. ALL INSULATION TO MEET NFPA 90, UL 161-CLASS 1, LIMIT FLEX DUCT RUNS TO 6'-0".
8. PROVIDE SHEET METAL START COLLARS WITH INTEGRAL MANUAL VOLUME DAMPERS AT EACH LOW PRESSURE ROUND RUNOUT DUCT CONNECTION.
9. CAULK AND SEAL ALL SHEET METAL JOINTS AND CONNECTIONS. FLASH AND SEAL ALL WALL PENETRATIONS AS NEEDED.

10. AFTER SYSTEM START-UP, BALANCE AIR DEVICES WITHIN 10% OF SCHEDULED AIR FLOW VALUES. PROVIDE OPERATION AND MAINTENANCE MANUALS TO BUILDING OWNER FOR ALL HVAC EQUIPMENT.
11. WALL MOUNTED THERMOSTATS TO BE INSTALLED 60" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION OF EACH THERMOSTAT WITH THE BUILDING REPRESENTATIVE.
12. MAINTAIN EQUIPMENT CLEARANCES AND ACCESS REQUIREMENTS AS PER THE MANUFACTURER'S RECOMMENDATIONS. FIELD ADJUST AS NEEDED.
13. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY DIRECTED OTHERWISE.
14. REFER TO SCHEDULES ON SHEET M103 FOR FURTHER INFORMATION ON MECHANICAL EQUIPMENT, AIR DEVICES, AND AIR BALANCING.
15. REFER TO SHEET M102 FOR MECHANICAL DETAILS.
16. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED AIR DEVICES.
17. CONTRACTOR TO FIELD VERIFY CONDENSER LOCATIONS ON ROOF.

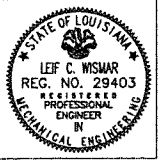
KEYED NOTES:

1. MOTORIZED OUTSIDE AIR DAMPERS: MOTORIZED OUTSIDE AIR DAMPERS TO POWER OPEN ON THE HEATING CYCLE AND POWER OPEN ON THE COOLING CYCLE FOR AHU-1, 2&3. DAMPERS TO POWER CLOSE WHEN AHU-1, 2&3 IS OFF. SEE SHEET M106 FOR SEQUENCE OF OPERATION FOR MORE DETAILS.
2. 10" Ø OUTSIDE AIR DUCT TO WEATHER PROOF GRAVITY VENT HOOD ON ROOF. SEAL ROOF PENETRATION WEATHER TIGHT. VENT HOOD SHALL INCLUDE BIRDSCREEN AND FLASHING FLANGE. GREENHECK MODEL GR5F OR APPROVED EQUAL. OSA INTAKE SHALL BE A MINIMUM DISTANCE OF 10' AWAY FROM THE NEAREST EXHAUST FAN OUTLET PLUMBING VENT, AND CONDENSING UNIT LOCATED ON ROOF. REFER TO EQUIPMENT SCHEDULE FOR OSA CFM VALUE FOR EACH AHU.



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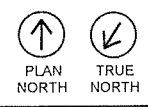
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 PLAN LAYOUT

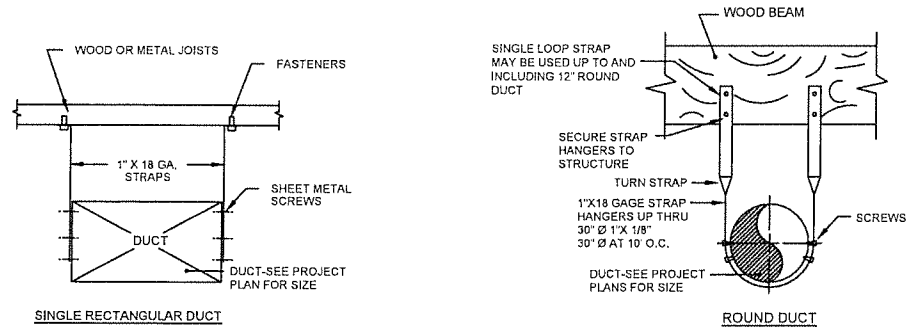
M101

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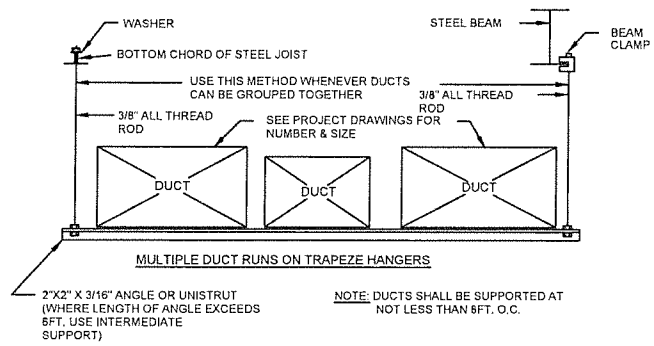
01 HVAC MECHANICAL PLAN VIEW
 SCALE: 1/4" = 1'-0"





SINGLE RECTANGULAR DUCT

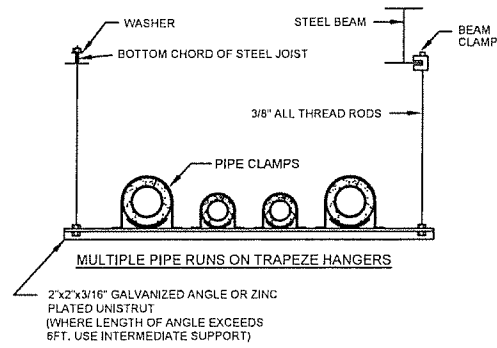
ROUND DUCT



MULTIPLE DUCT RUNS ON TRAPEZE HANGERS

HANGER AND SUPPORT DETAILS FOR DUCTWORK (TYPICAL)

SCALE: NONE



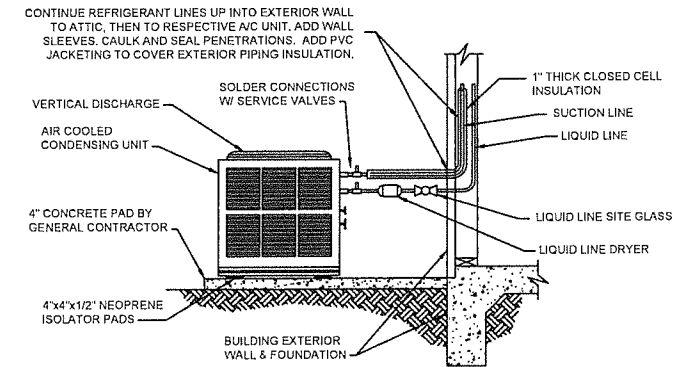
MULTIPLE PIPE RUNS ON TRAPEZE HANGERS

NOTE: PIPE SHALL BE SUPPORTED AT NOT LESS THAN 8 FT. O.C.

TRAPEZE PIPE HANGER DETAIL

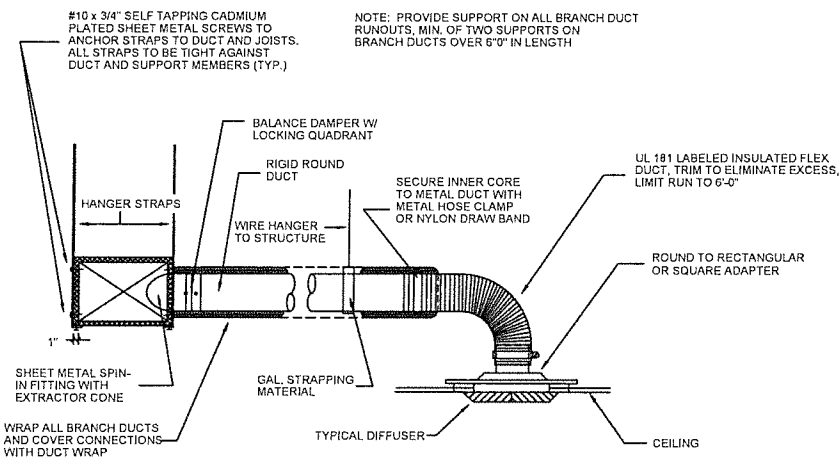
SCALE: NONE

NOTE:
REFRIGERANT LINE SIZES TO BE VERIFIED WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION



CONDENSING UNIT INSTALL DETAIL

SCALE: NONE

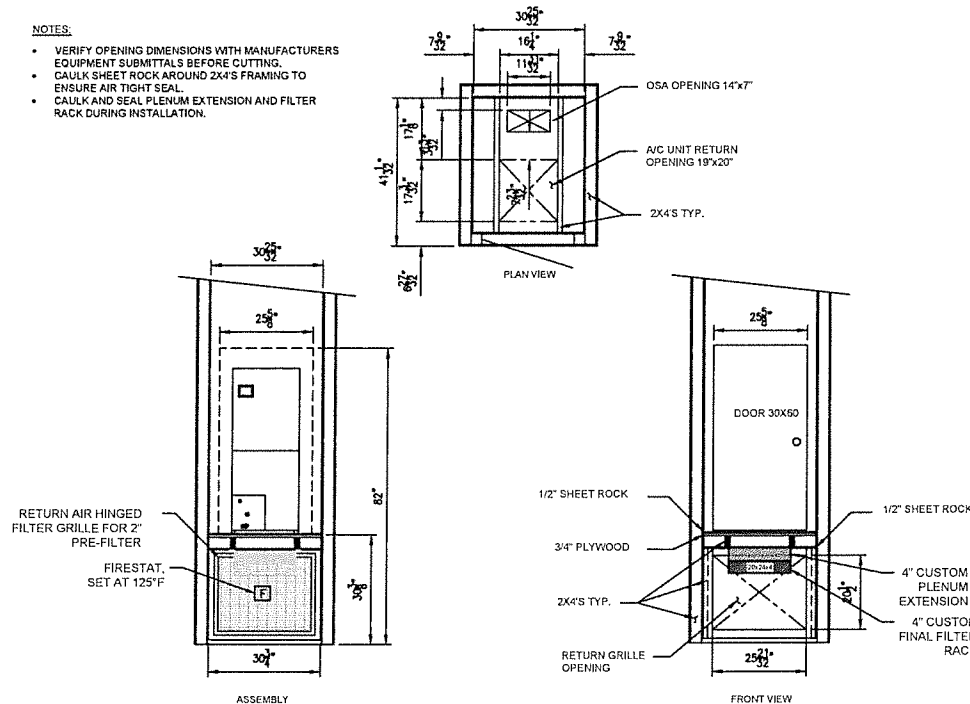


TYPICAL DIFFUSER CONNECTION (SIDE OF DUCT CONNECTION)

SCALE: NONE

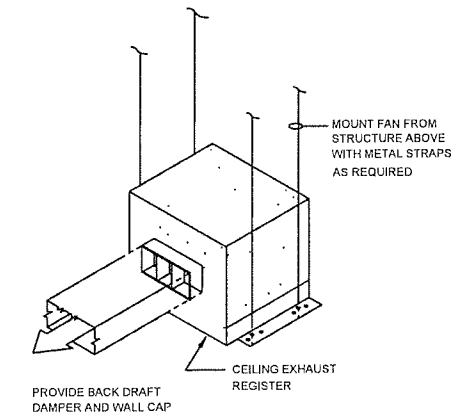
NOTES:

- VERIFY OPENING DIMENSIONS WITH MANUFACTURERS EQUIPMENT SUBMITTALS BEFORE CUTTING.
- CAULK SHEET ROCK AROUND 2X4'S FRAMING TO ENSURE AIR TIGHT SEAL.
- CAULK AND SEAL PLENUM EXTENSION AND FILTER RACK DURING INSTALLATION.



BLOWER COIL UNIT INSTALLATION DETAILS (TYPICAL)

SCALE: NONE



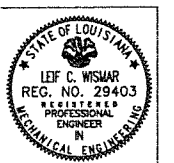
CEILING EXHAUST FAN DETAIL

SCALE: NONE



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HVAC MECHANICAL DETAILS

M102

11



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 ADDITION MECHANICAL PLAN
 4500 WASHINGTON AVENUE
 NEW ORLEANS, LA 70125



job no. _____

drawn by _____

DC

checked by _____

LW

date	_____
for	_____
revisions	_____
no.	_____
for	_____
_____	_____
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sheet contents
 HVAC MECHANICAL
 EQUIPMENT
 SCHEDULE

M104

10/11/2016

AIR HANDLING UNITS		FAN DATA		MOTOR DATA		EVAPORATOR COIL DATA				ELECTRIC HEATER DATA			ELECTRIC DATA				REMARKS										
UNIT NO.	LOCATION	TOTAL C.F.M.	O.A. C.F.M.	EXT. S.P.	MAX. B.H.P.	MAX. R.P.M.	H.P.	VOLTS	PH	TYPE	SENS. CAP. M.B.H.	TOTAL CAP. M.B.H.	AIR ENT. D.B.	AIR LVG. W.B.	SUCTION TEMP.	AMB. TEMP.		AIR PSIG	CAP. M.B.H.	KW MIN.	STAGES	ELECTRIC SERVICE	MIN AMPACITY	MAX FUSE/BRK	FULL LOAD AMPACITY		
AHU-1	EXAM ROOM AREA	1205	300	0.5	1/2	NA	1/2	208	1	ECM	36	48	80	67	59.0	57.3	45	95	-	38.0	11.3	INTEL	208/1/60	53.8/22.7	60/25	-	CARRIER AHU MODEL FE4ANF006L00, VERTICAL CONFIGURATION. (OR EQUIVALENT)
AHU-2	DENTAL SUITE AREA	2050	75	0.5	3/4	NA	3/4	208	1	ECM	48	60	80	67	59.0	57.3	45	95	-	38.0	11.3	INTEL	208/1/60	53.8/22.7	60/25	-	CARRIER AHU MODEL FE4ANF006L00, VERTICAL CONFIGURATION. (OR EQUIVALENT)
AHU-3	O.R. 2 AND LAB	1250	300	0.5	1/2	NA	1/2	208	1	ECM	36	48	80	67	59.0	57.3	45	95	-	38.0	11.3	INTEL	208/1/60	53.8/22.7	60/25	-	CARRIER AHU MODEL FE4ANF005L00, VERTICAL CONFIGURATION. (OR EQUIVALENT)

CONDENSING UNITS		SYSTEM PARAMETERS						REFRIGERANT LINE SIZES			ELECTRIC DATA				REMARKS
UNIT NO.	AHU SERVING	REFRIGERANT TYPE	COMPRESSOR QT. / STAGES	COMPRESSOR TYPE	MINIMUM OUTDOOR TEMP.	NO. OF OUTDOOR FANS	CONDENSER COILS	AMB. TEMP.	LIQUID LINE SIZE	SUCTION LINE SIZE	ELECTRIC SERVICE	MIN AMPACITY	MAX FUSE	FULL LOAD AMPACITY	
CU-1	AHU-1	PURON	1 / 2 STAGES	SCROLL	35	1	AUCU	95	3/8"	1 1/8"	208/1/60	NA	40.0	27.8	CARRIER CONDENSING UNIT MODEL 24ANB748A003, BASE UNIT. (OR EQUIVALENT)
CU-2	AHU-2	PURON	1 / 2 STAGES	SCROLL	35	1	AUCU	95	3/8"	1 1/8"	208/1/60	NA	60.0	37.3	CARRIER CONDENSING UNIT MODEL 24ANB769A003, BASE UNIT. (OR EQUIVALENT)
CU-3	AHU-3	PURON	1 / 2 STAGES	SCROLL	35	1	AUCU	95	3/8"	1 1/8"	208/1/60	NA	40.0	27.8	CARRIER CONDENSING UNIT MODEL 24ANB748A003, BASE UNIT. (OR EQUIVALENT)

- ① THERMOSTAT TO BE INFINITY TOUCH CONTROL WITH WI-FI GATEWAY.
- ② PROVIDE CARRIER RECOMMENDED HARD START KIT.

EXHAUST FAN SCHEDULE										
MARK	SERVICE	TOTAL CFM	EXT. SP.	WATTS	ELECTRIC SERVICE	TYPE	DRIVE	RPM	NECK	REMARKS
EF-1	DDG CAGES - CHECK IN	310	0.25	60	115/1/60	CENT	DIRECT	1000	8"X8"	GREENHECK MODEL SP-A410 ① ③ ④
EF-2	CAT CAGES	150	0.50	60	115/1/60	CENT	DIRECT	850	8"X8"	GREENHECK MODEL SP-A200 ① ③ ④
EF-3	ADA RESTROOM W/C	50	0.20	45	115/1/60	CENT	DIRECT	594	6"Ø	GREENHECK MODEL SP-B70 ① ② ④ ⑤
EF-4	W/C	50	0.20	45	115/1/60	CENT	DIRECT	594	6"Ø	GREENHECK MODEL SP-B70 ① ② ④ ⑤

- ① PROVIDE SOLID STATE SPEED CONTROL.
- ② PROVIDE ROUND TRANSITION DUCT REDUCER - 6" TO 4".
- ③ PROVIDE ROUND DUCT CONNECTOR - 6".
- ④ PROVIDE EXHAUST FAN ISOLATION KIT.
- ⑤ ROUND HOODED WALL CAP - 6".

MOTORIZED OSA ISOLATION DAMPER SCHEDULE								
SYMBOL	NOMINAL SIZE	BLADE PROFILE	MATERIAL	BLADE SEAL	LEAKAGE RATE @ 1" W.G.	ACTUATOR TYPE	FAIL POSITION	MANUFACTURER & MODEL
MD	10" Ø	ROUND	GALVANIZED	SILICONE	4 CFM/FT ²	24 VAC	CLOSED	GREENHECK MODEL VCDR-S3 (OR EQUIVALENT)

GRILLE - REGISTER - LOUVER SCHEDULE							
SYMBOL	NOMINAL SIZE	PATTERN	NECK SIZE	STYLE	MAX STATIC PRESSURE	MAX CFM	MANUFACTURER & MODEL
②	24x24	4-WAY	SEE PLAN	T-BAR CEILING DIFFUSER	0.060" W.G.	350	TITUS MODEL TMS (WHITE) ① ② ⑤
③	12x12	4-WAY	SEE PLAN	T-BAR CEILING DIFFUSER	0.030" W.G.	100	TITUS MODEL TMS (WHITE) ① ② ⑤
④	30"Wx24"H	35 DEGREE	-	SURFACE MOUNT RETURN AIR	0.06" W.G.	-	TITUS MODEL 350FLF2 (WHITE) ① ② ③ ⑤
⑤	18x12	35 DEGREE	-	AIR INTAKE LOUVER	0.09" W.G.	400	GREENHECK ESD-45X LOUVER ④ ⑤

- ① INCLUDE MOLDED INSULATION BLANKET.
- ② INCLUDE EQUALIZING GRID AND OPPOSED BLADE DAMPER.
- ③ HINGED BOTTOM AND KNURLED KNOB FASTENING.
- ④ INCLUDE FLANGED FRAME AND 3/4 BIRD SCREEN.
- ⑤ COLOR TO BE SELECTED BY ARCHITECT.

HVAC GENERAL NOTES:

- ALL WORK SHALL BE PER IBC MECHANICAL, NEC, NFPA, UL, STATE, LOCAL INSPECTORS AND OTHER APPLICABLE CODES.
- BALANCE ALL AIR FLOWS TO INDICATED CFM WITHIN 10%. PROVIDE WRITTEN DOCUMENTATION AND COMMISSION REPORT.
- WALL MOUNTED THERMOSTATS TO BE INSTALLED 60" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION OF EACH THERMOSTAT WITH THE BUILDING REPRESENTATIVE.
- SMOKE DETECTOR SHALL BE INTEGRATED INTO THE CONTROL SYSTEM AS REQUIRED FOR CONFORMANCE WITH NFPA 90A, THE INTERNATIONAL MECHANICAL CODE, AND ALL OTHER REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- FIRESTAT SHALL BE FIELD INSTALLED ON THE RETURN SIDE OF EACH AIR HANDLING UNIT AND INTEGRATED INTO THE CONTROL SYSTEM AS REQUIRED FOR CONFORMANCE WITH NFPA 90A, THE INTERNATIONAL MECHANICAL CODE, AND ALL OTHER REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION.
- PROVIDE PHENOLIC IDENTIFICATION LABELS FOR EACH AIR HANDLING UNIT, CONDENSING UNIT, AND ASSOCIATED TEMPERATURE CONTROLLER.
- RETURN AIR FILTERS TO CONSIST OF 30X24X2 MERV 8 RETURN AIR PRE-FILTER LOCATED AT THE RETURN AIR FILTER GRILLE. A 20X24X4 MERV 11 FINAL RETURN AIR FILTER TO BE CUSTOM LOCATED AT EACH RETURN AIR OF THE AIR HANDLING UNIT. ACCESSED TO FINAL FILTER TO BE GAINED THROUGH HINGED RETURN AIR FILTER GRILLE.
- MAINTAIN EQUIPMENT CLEARANCES AND ACCESS REQUIREMENTS AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY DIRECTED OTHERWISE IN WRITING.

SHEET METAL DUCTWORK GENERAL NOTES

- ALL SUPPLY AND RETURN AIR DUCT TO HAVE "S" AND DRIVE CONNECTIONS AND BE EXTERNALLY INSULATED WITH 1 1/2" THICK R6 INSULATION.
- ALL RIGID ROUND AIR DUCT TO BE EXTERNALLY WRAPPED WITH 1 1/2" R6 INSULATION.
- ALL DUCTWORK, TURNING VANES, VOLUME DAMPERS, AND DUCT SUPPORTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCT STANDARDS.
- ROUTING OF SHEET METAL DUCTWORK TO BE FIELD VERIFIED. EQUIVALENT DUCTWORK SIZING MAY BE USED IN ORDER TO MAINTAIN ARCHITECTURAL CEILING HEIGHT.
- LOW PRESSURE ROUND FLEXIBLE DUCT TO HAVE 1 1/2" THICK INSULATION WITH AN R6 RATING. ALL INSULATION TO MEET NFPA 90; UL 161-CLASS 1. FLEXIBLE DUCT LENGTH SHALL BE LIMITED TO 6'-0".
- PROVIDE SHEET METAL START COLLARS WITH INTEGRAL MANUAL VOLUME DAMPERS AT EACH LOW PRESSURE DUCT CONNECTION.
- CAULK AND SEAL ALL SHEET METAL JOINTS AND CONNECTIONS BEFORE INSULATING. FLASH AND SEAL ALL WALL PENETRATIONS.
- LISTED DUCTWORK DIMENSIONS INDICATE OUTSIDE DIMENSIONS.

GENERAL PIPING NOTES:

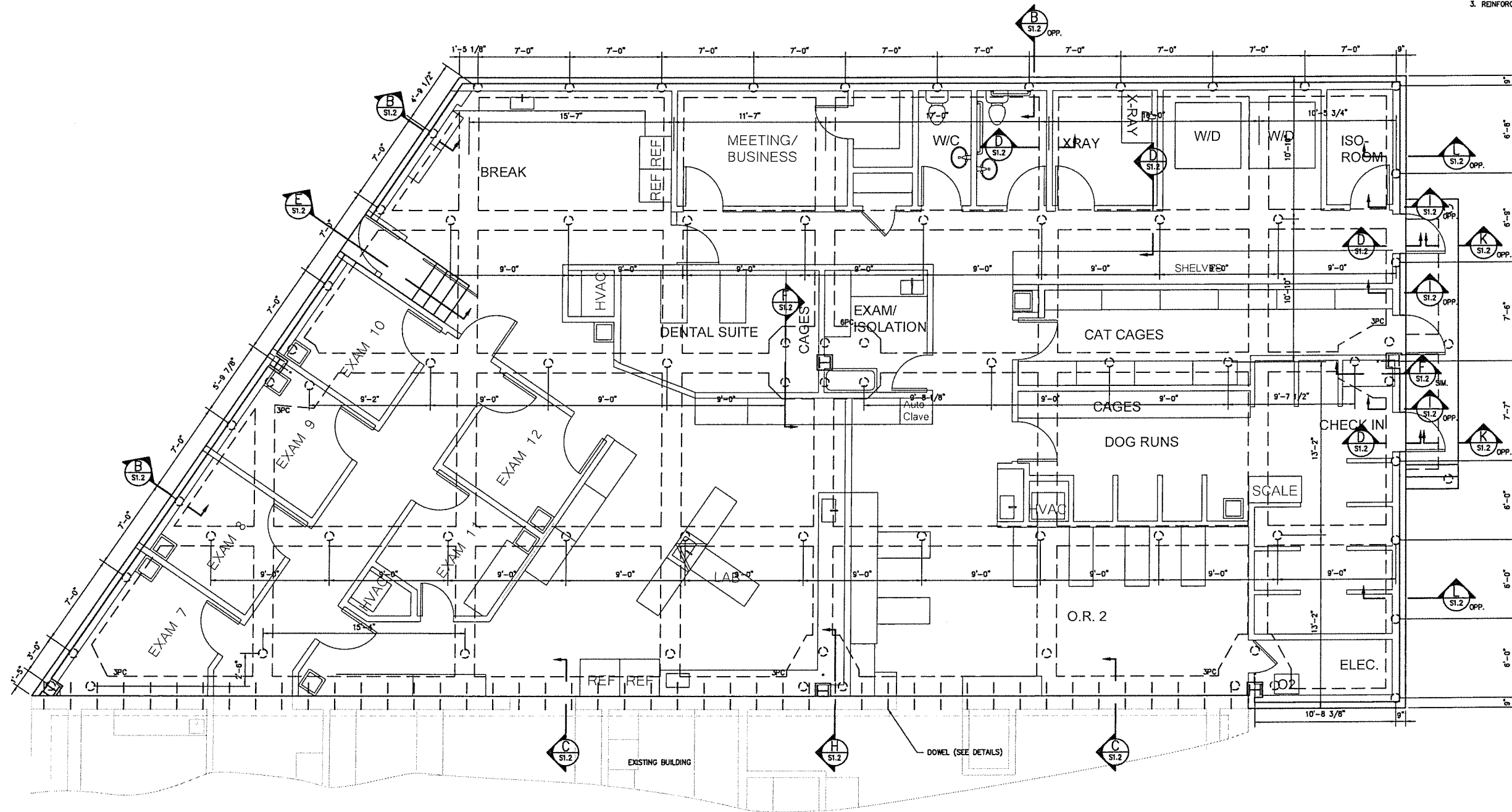
- REFRIGERANT PIPING TO BE EITHER HARD DRAWN OR SOFT DRAWN COPPER. ACCEPTABLE CONNECTION METHODS TO BE SOLDERING WITH 15% SILVER ALLOY SOLDER. LOW SILVER CONTENT ALLOY SOLDER TO BE ACCEPTABLE FOR CONNECTING OF PIPING ACCESSORIES.
- REFRIGERANT PIPING SHALL BE SIZED IN ACCORDANCE WITH THE CONDENSING UNIT MANUFACTURER'S REQUIREMENT FOR ACTUAL INSTALLED EQUIVALENT LENGTH OF RUN OF PIPING.
- PIPING ACCESSORIES SHALL INCLUDE THERMOSTATIC EXPANSION VALVES, LIQUID LINE DRYERS, SIGHT GLASSES, AS WELL AS ANY OTHER ACCESSORIES RECOMMENDED BY CONDENSING UNIT MANUFACTURER.
- PROVIDE AND INSTALL TRAPEZE PIPE HANGERS EVERY 8' ON CENTER. HANGERS SHALL BE CONSTRUCTED OF UNISTRUT, ALL THREAD RODS, WASHERS AND CLAMPS (TYPICAL). HANG PIPE AS HIGH AS POSSIBLE OFFSET AS REQUIRED TO AVOID CONFLICTS WITH OTHER TRADES.
- FOR ALL SUCTION LINE REFRIGERATION PIPING 1 1/4" AND SMALLER, INSULATE WITH 1" THICK CELLULOSE INSULATION.
- CONDENSATE DRAIN LINES TO TIE IN TO EXISTING PLUMBING TRAPS. ALL DRAIN LINES TO BE MINIMUM 1" SCHEDULE 40 PVC, INSULATE ENTIRE LENGTH WITH 1/2" FLEXIBLE CELLULAR INSULATION. CONDENSATE DRAIN LINES RUNS TO MAINTAIN DOWNHILL SLOPE OF 1/8" PER LINEAR FOOT.
- CONDENSATE DRAIN LINES TO TERMINATE AT APPROPRIATE LOCATION AS PER LOCAL CODES. ALL DRAIN LINES SHALL HAVE OVERFLOW CUT-OFF SWITCHES. IF REQUIRED USE CONDENSATE PUMPS TO RUN CONDENSATE TO NEAREST PLUMBING TRAP ACCESS. FOLLOW CONDENSATE PUMP MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
- FIELD ROUTE PIPING LAYOUT TO AVOID OBSTACLES AS NEEDED.
- ALL CONDENSING UNITS TO BE LOCATED ON ROOF DECKING. MAINTAIN SPACING BETWEEN CONDENSING UNITS AS PER THE MANUFACTURER'S RECOMMENDATIONS.

SEQUENCE OF OPERATION:

- AIR CONDITIONING SYSTEM. THERMOSTAT TO CYCLE CONDENSING UNIT ON THE COOLING CYCLE AND THE HEATER ON THE HEATING CYCLE TO MAINTAIN SPACE CONDITIONS. AIR HANDLING UNIT SHALL BE WIRED FOR AND ELECTRICALLY INTERLOCKED SUCH THAT THE CONDENSING UNIT MAY NOT RUN NOR THE ELECTRIC HEATER BE ENERGIZED UNLESS THE EVAPORATOR FAN IS OPERATIONAL. THERMOSTAT SHALL BE EQUIPPED WITH "HEAT-OFF-COOL" AND "ON-AUTO" SELECTOR CAPABILITIES AND SHALL BE WIRED FOR EITHER CONSTANT FAN OPERATION OR AUTOMATIC FAN OPERATION ON BOTH THE HEATING AND COOLING CYCLE. IF RETURN AIR TEMPERATURE RISES ABOVE FIRESTAT SET POINT THEN FIRESTAT DE-ENERGIZES UNIT EVAPORATION FAN.
- MOTORIZED OUTSIDE AIR DAMPERS: MOTORIZED OUTSIDE AIR DAMPERS TO POWER OPEN ON THE HEATING CYCLE AND POWER OPEN ON THE COOLING CYCLE. MOTORIZED OUTSIDE AIR DAMPER TO DE-ENERGIZE AND SPRING CLOSE UPON SATISFIED SPACE CONDITIONS.
- EXHAUST FANS. ALL EXHAUST FANS SHALL BE INSTALLED WITH SOLID STATE SPEED CONTROLLERS TO SET THE SPECIFIED VOLUME FLOW RATES. RESTROOM EXHAUST FANS TO BE CONTROLLED BY INDIVIDUAL WALL MOUNTED OCCUPANCY SENSOR SWITCHES. EXHAUST FANS SERVING THE DOG AND CAT AREAS (EF-1, EF-2, & EF-3) TO BE CONTROLLED BY A CENTRAL DIGITAL 7 DAY TIME CLOCK.

NOTES

1. SLAB AREA = 4,155 SQ. FT.
2. 6" SLAB TYPICAL UNLESS NOTED OTHERWISE.
3. REINFORCEMENT- (2) 4x4 4.0/4.0 WMF



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

NO.	DATE	DESCRIPTION	BY
1	05/01/2023	FOR PERMIT	MLM
2			
3			



CARUBBA ENGINEERING
 3400 Hessmer Avenue
 Metairie, LA 70002
 Phone: 504.888.1490
 www.carubbaengineering.com

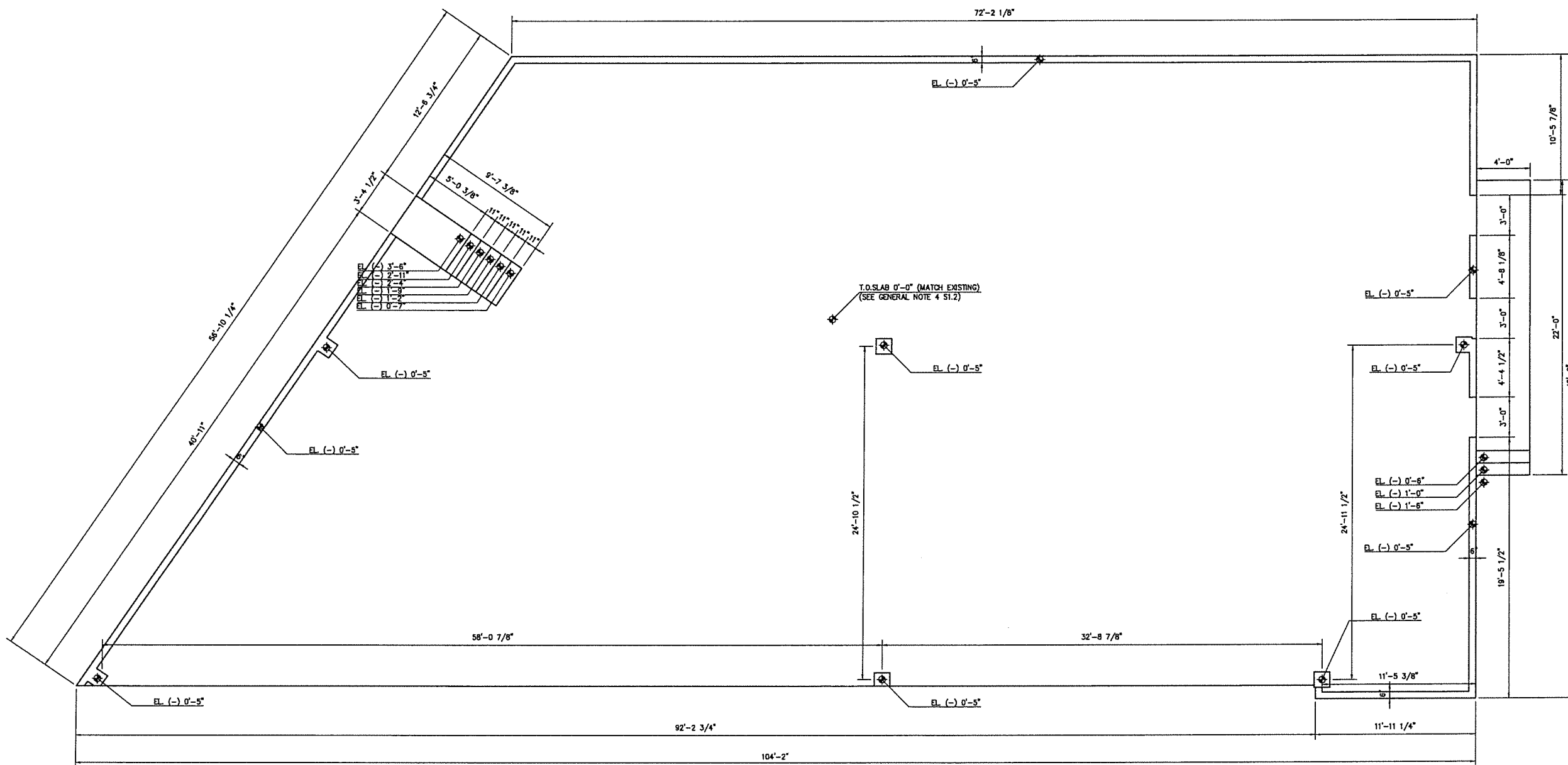
LOUISIANA

SIDNEY PULITZER JR
PROPOSED ADDITION
4300 WASHINGTON AVENUE
FOUNDATION PLAN

NEW ORLEANS

DRAWN	MLM
CHECKED	MLM
DATE	05/08/2023
CEI PROJECT NO.	2022 - 161
SHEET	S1.0

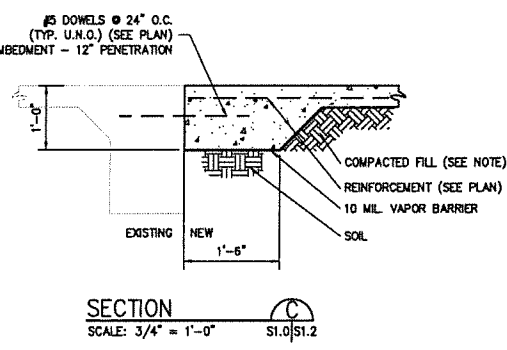
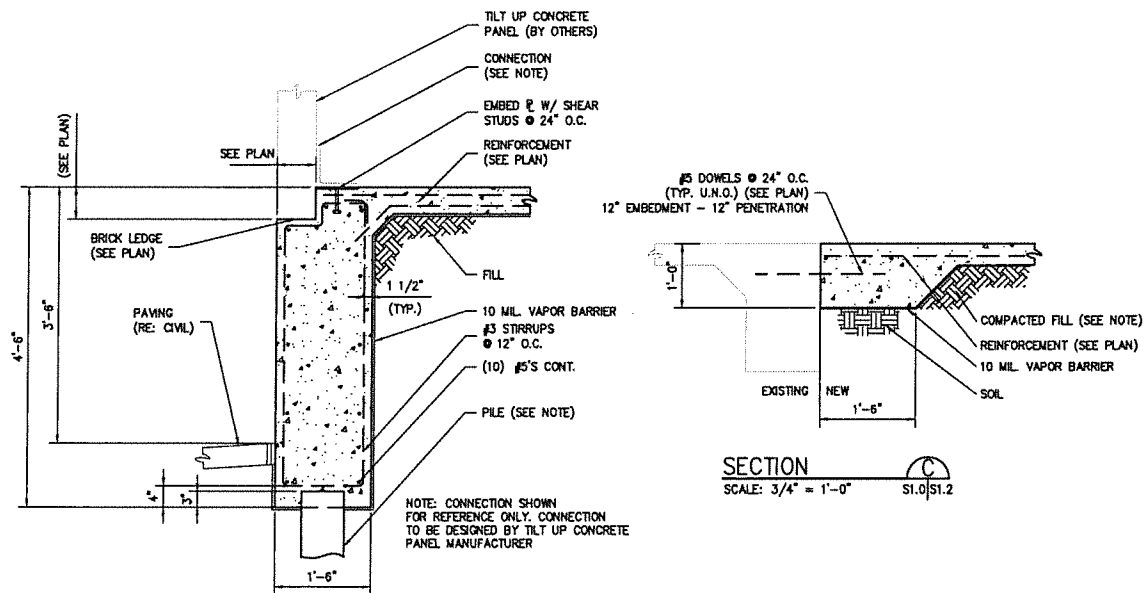




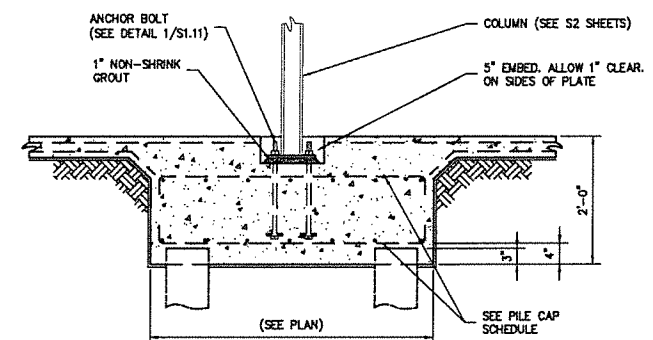
SLAB PLAN
SCALE: 1/4"=1'-0"

NEW ORLEANS	LOUISIANA	FOR PERMIT	DATE	BY
SIDNEY PULITZER JR PROPOSED ADDITION 4300 WASHINGTON AVENUE SLAB PLAN		A	05/08/2023	MTD
		MARK	DATE	BY
CARUBBA ENGINEERING CIVIL, STRUCTURAL, INDUSTRIAL, MARINE 3400 HESSMER AVENUE METAIRIE, LA 70002 PHONE: 504.888.1490 WWW.CARUBBAENGINEERING.COM				
DRAWN		MLM		
CHECKED		MTD		
DATE		05/08/2023		
CEI PROJECT NO.		2022 - 161		
SHEET		S1.1		

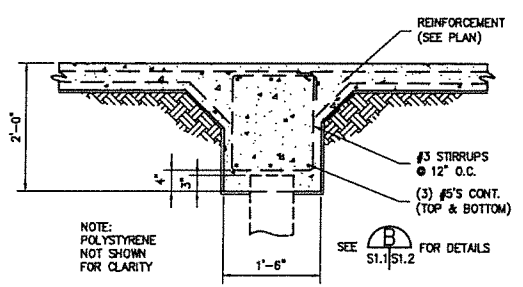




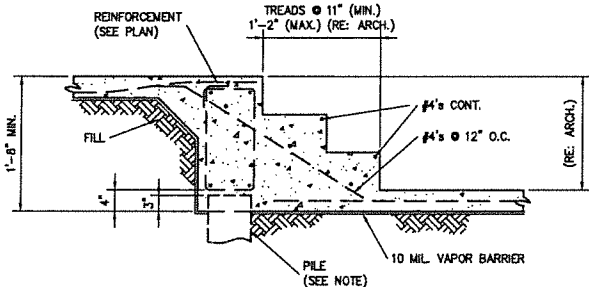
SECTION B-B
SCALE: 3/4" = 1'-0"
S1.0/S1.2



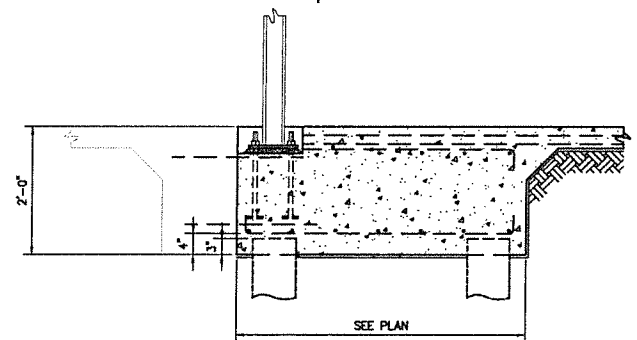
SECTION C-C
SCALE: 3/4" = 1'-0"
S1.1/S1.2



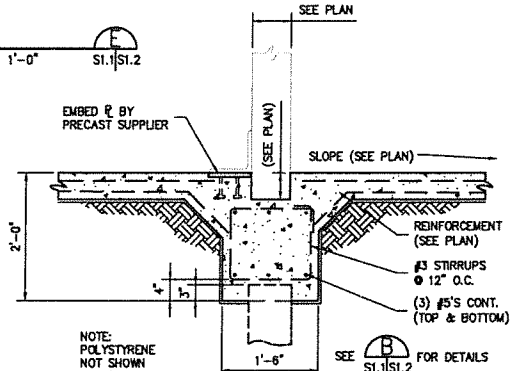
SECTION D-D
SCALE: 3/4" = 1'-0"
S1.0/S1.2



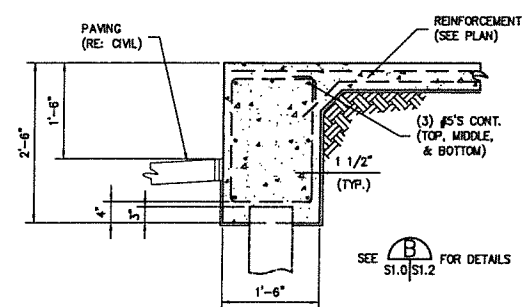
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S1.1/S1.2



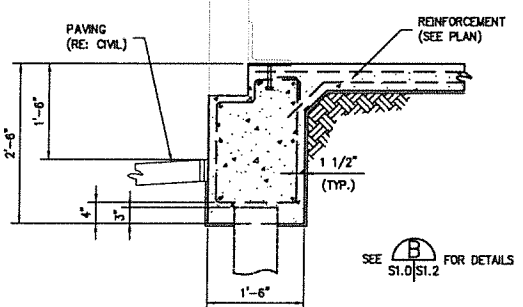
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S1.0/S1.2



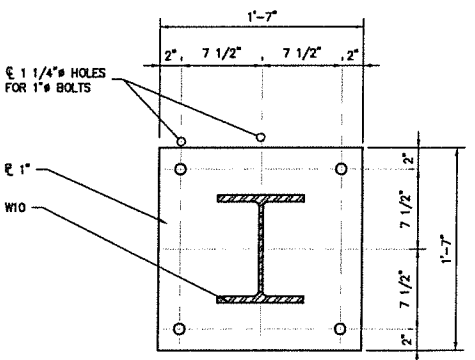
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S1.0/S2.0



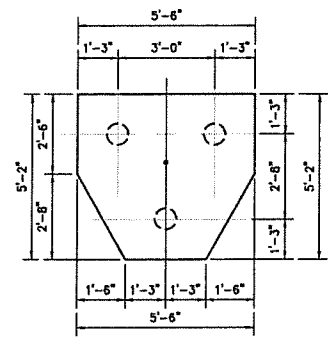
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S1.0/S1.2



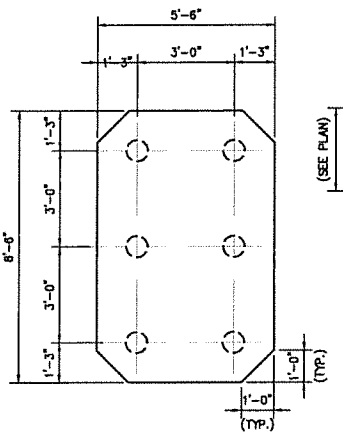
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S1.0/S1.2



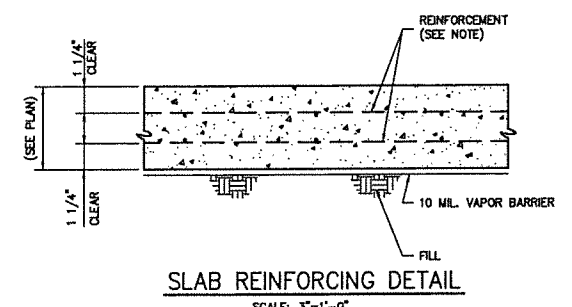
BASE P DETAIL
SCALE: 1 1/2" = 1'-0"



3 PILE CAP
SCALE: 3/8" = 1'-0"

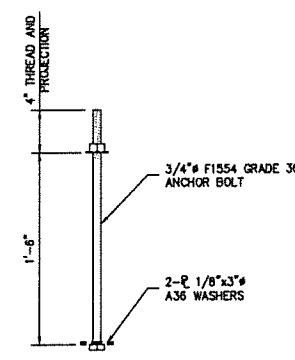


6 PILE CAP
SCALE: 3/8" = 1'-0"



SLAB REINFORCING DETAIL
SCALE: 3" = 1'-0"

PILE CAP	DEPTH	REINFORCING E.W.	
		BOTTOM	TOP
3 PC	24"	#6'S @ 8"	#5'S @ 12"
6 PC	24"	#6'S @ 8"	#5'S @ 12"



DETAIL
SCALE: 1 1/2" = 1'-0"
S1.2/S1.2

NOTES

- GENERAL**
- BEAM DIMENSIONS SHOWN ARE MINIMUM REQUIRED AND MAY NOT BE REDUCED, NOR ENLARGED WITHOUT APPROVAL OF THE ENGINEER.
 - NO FIELD OBSERVATION IS PROVIDED UNDER THIS SEAL UNLESS OTHERWISE NOTED IN WRITING ON THIS PLAN. SLAB OBSERVATIONS AFTER CONSTRUCTION WILL BE BILLED AT HOURLY RATES IF REQUESTED.
 - DISCONTINUE GRADE BEAM REINFORCING @ COLUMN PEDESTAL LOCATIONS.
 - TOP OF SLAB ELEVATION IS FOR REFERENCE ONLY. CONTRACTOR TO VERIFY REQUIRED TOP OF SLAB ELEVATION WITH PROFESSIONAL LAND SURVEYOR PRIOR TO SETTING FORMS.
 - WIDEN GRADE BEAM AT COLUMN LOCATION TO MINIMUM 24"x24".
 - CARRY REINFORCING AROUND ELEVATOR PLUNGER HOLE IF APPLICABLE.
 - DESIGN LOADS:
FLOOR LOAD: OFFICE 50 P.S.F.
ROOF LIVE LOAD 20 P.S.F.
DESIGN WIND LOAD 143 MPH - EXPOSURE CATEGORY B
IMPORTANCE FACTOR 2 ENCLOSED BUILDING - M.W.F.R.S. OR COMPONENTS AND CLADDING
- CONCRETE**
- THE CONCRETE DESIGN IS BASED UPON CONCRETE MIX YIELDING MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE DESIGN MIX SHALL BE IN ACCORDANCE WITH ACI-318 (LATEST VERSION). NO CHLORIDES SHALL BE ALLOWED.
 - LAPS, SPLICES, TIES, AND EMBEDMENT LENGTHS FOR REINFORCING STEEL SHALL BE IN ACCORDANCE WITH A.C.I. "MANUAL OF STANDARD PRACTICE, DETAILS, AND DETAILING OF CONCRETE REINFORCEMENT", A.C.I. 318, A.C.I. 315, AND IN ACCORDANCE WITH C.R.S.I. STANDARDS. CONCRETE WORK SHALL BE IN STRICT ACCORDANCE WITH A.C.I. STANDARD SPECIFICATION FOR CONCRETE AND REINFORCED CONCRETE. CONCRETE PLACEMENT SHALL CONFORM TO A.C.I. 301 AND A.C.I. 318.
 - COMPRESSION EMBEDMENT LENGTH SHALL BE 30 BAR DIAMETERS UNLESS NOTED OTHERWISE.
 - CLEAR DISTANCE BETWEEN ADJACENT LAYERS OF REINFORCEMENT SHALL BE 2 INCHES MINIMUM UNLESS NOTED OTHERWISE.
 - THE CONTRACTOR SHALL BE ALLOWED TO MAKE SPLICES IN ADDITION TO THOSE INDICATED ON THE DRAWINGS WHERE ESSENTIAL TO CONSTRUCTABILITY, SUBJECT TO ENGINEER'S APPROVAL.
 - SUBJECT TO ENGINEER'S APPROVAL, BARS MAY BE SHIFTED SLIGHTLY IN THE FIELD WHERE NECESSARY TO AVOID OPENINGS, PIPES, EMBEDDED ITEMS, OR OTHER OBSTRUCTIONS.
 - HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH ACI 318.
 - PLACEMENT, CLEARANCES, AND MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE PROVIDED IN ACCORDANCE WITH A.C.I. 318.
 - SEE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS, SLOPES, RECESSES, LEDGES, AND STEPS.
 - BOTTOMS OF EXCAVATIONS AND EARTHEN FORMS SHALL BE FLAT, LEVEL, TRUE TO GRADE AND LINE, AND COMPLETELY FREE OF LOOSE DIRT, DEBRIS, AND SLUSH. DAMPEN EARTH AGAINST WHICH CONCRETE IS POURED JUST PRIOR TO THE POUR, BUT DO NOT POUR INTO TRENCHES WITH STANDING WATER.
 - FORMS FOR EXPOSED FINISH CONCRETE: PLYWOOD, METAL, METAL-FRAMED PLYWOOD FACED, OR OTHER ACCEPTABLE PANEL-TYPE MATERIALS TO PROVIDE CONTINUOUS, STRAIGHT, SMOOTH, EXPOSED SURFACES.
 - REINFORCING STEEL SHALL BE GRADE 60 BAR CONFORMING TO THE LATEST EDITION OF ASTM.
- PILES**
- CONTRACTOR SHALL PREPARE SITE AND FOUNDATION IN STRICT ACCORDANCE WITH SOILS REPORT PREPARED BY GULF SOUTH ENGINEERING AND TESTING, INC. REPORT NO. 22-140 DATED 04/12/2023.
 - ASTM D25 TREATED PILE, 50' EMBEDMENT - DRIVEN TO REFUSAL (12 BLOWS PER FOOT FOR TWO CONSECUTIVE FEET USING A 7,500 FT. LB. DROP HAMMER.)
12" BUTT, 7" TOP,
10 TON DESIGN LOAD

DATE	05/07/2023	BY	MTD
DESCRIPTION			
MARK	A	FOR PERMIT	

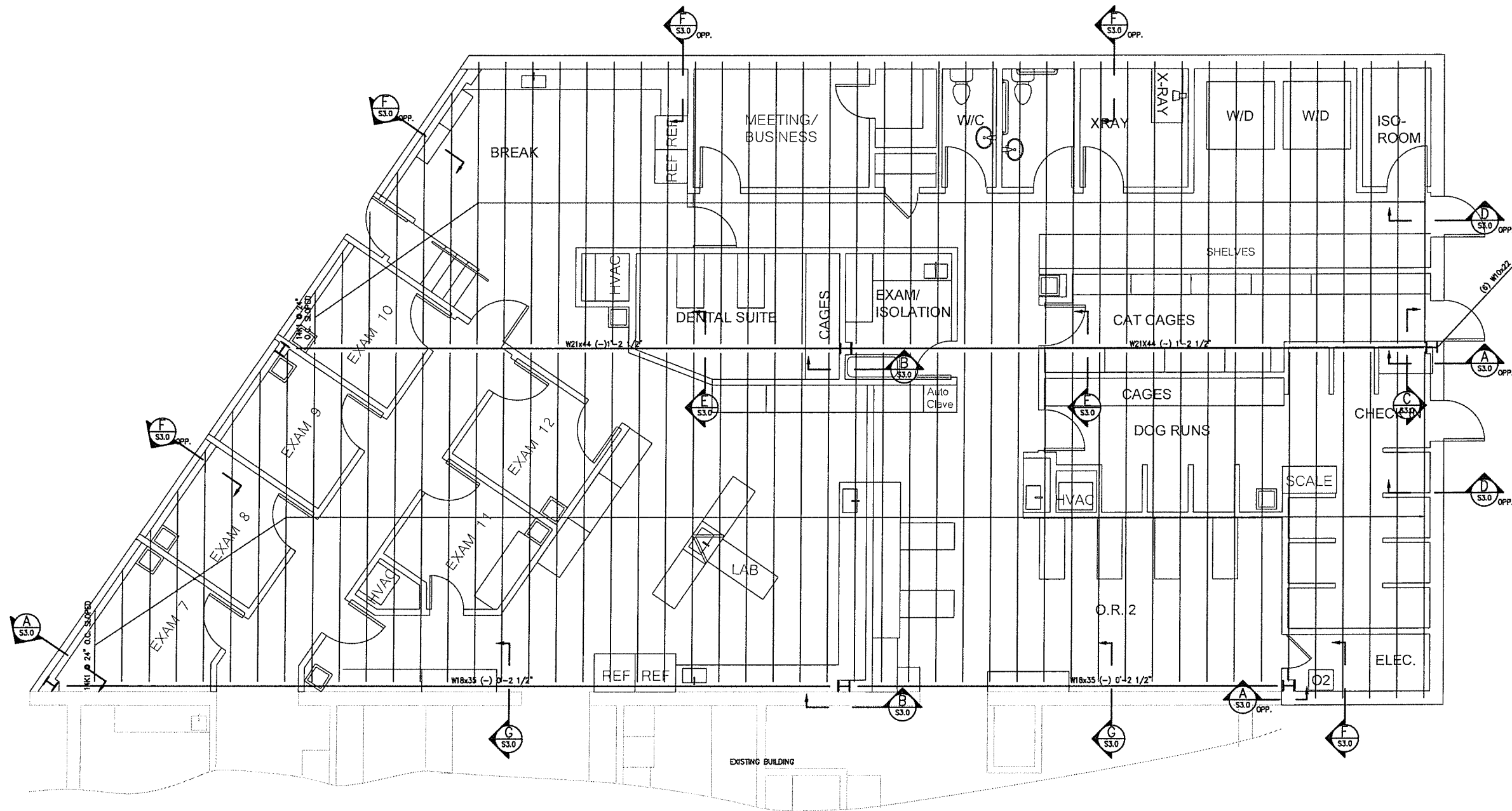
STATE OF LOUISIANA
ROYAL CARUBBA
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

CIVIL STRUCTURAL INDUSTRIAL MARINE
CARUBBA ENGINEERING
3400 Hessmer Avenue Metairie, LA 70002
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LOUISIANA
SIDNEY PULTIZER JR
PROPOSED ADDITION
4300 WASHINGTON AVENUE
FOUNDATION NOTES AND DETAILS
NEW ORLEANS

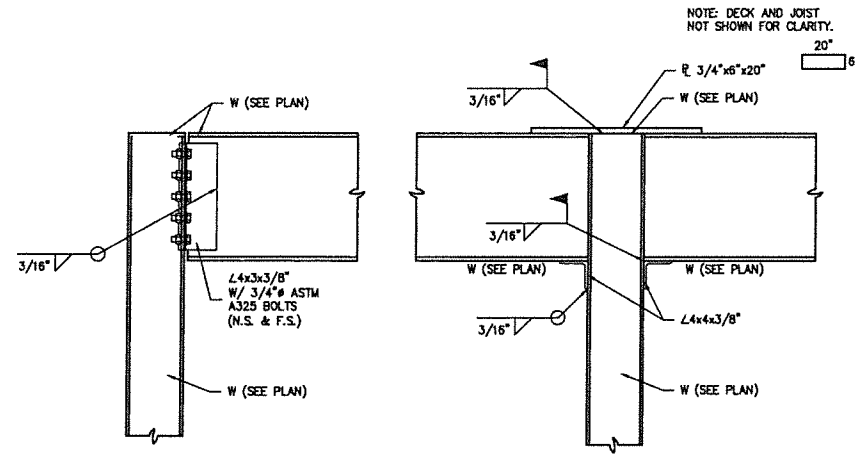
DRAWN MLM
CHECKED MTD
DATE 05/08/2023
CEI PROJECT NO. 2022 - 167
SHEET
S1.2

30th ANNIVERSARY 1993-2023
CARUBBA ENGINEERING
CIVIL STRUCTURAL

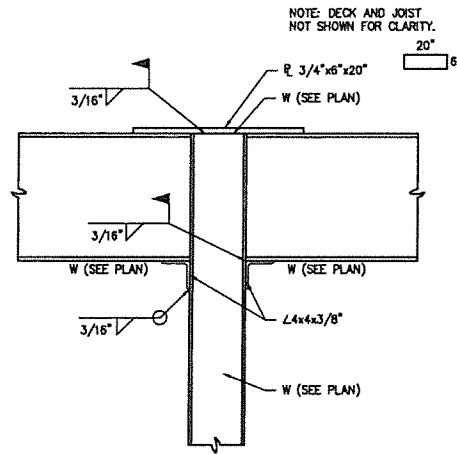


FRAMING PLAN T.O.S. = 12'-8 1/2" V.W.A.
SCALE: 1/4"=1'-0"

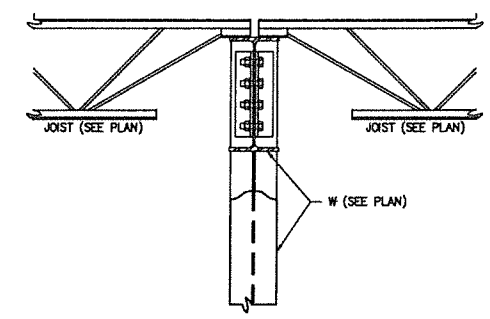
NEW ORLEANS	LOUISIANA	FOR PERMIT	DATE	MTD	BY
SIDNEY PULITZER JR		A	05/07/2023		
PROPOSED ADDITION		MARK			
4300 WASHINGTON AVENUE		DESCRIPTION			
FRAMING PLAN					
3400 Hessemmer Avenue Metairie, LA 70002 Phone: 504.888.1490 www.carubbaengineering.com					
DRAWN		MLM			
CHECKED		MTD			
DATE		05/08/2023			
CEI PROJECT NO.		2022 - 167			
SHEET		S2.0			



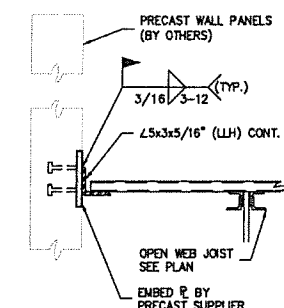
SECTION A
SCALE: 1" = 1'-0" S2.0/S3.0



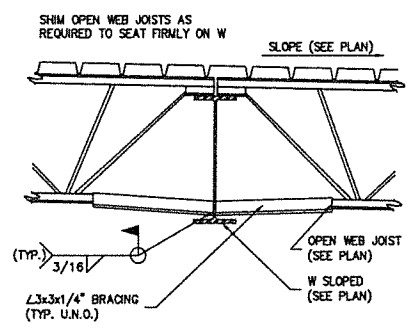
SECTION B
SCALE: 1" = 1'-0" S2.0/S3.0



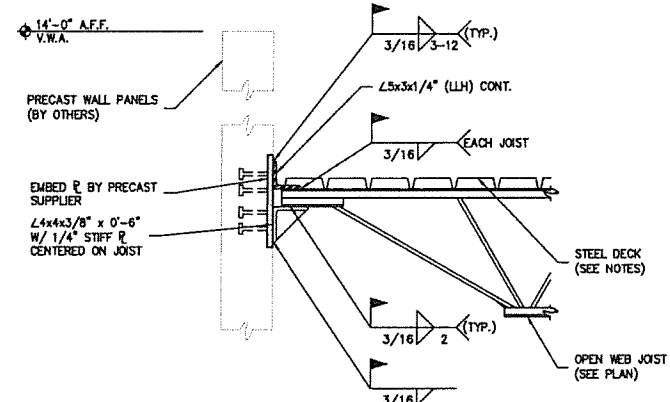
SECTION C
SCALE: 1" = 1'-0" S2.0/S3.0



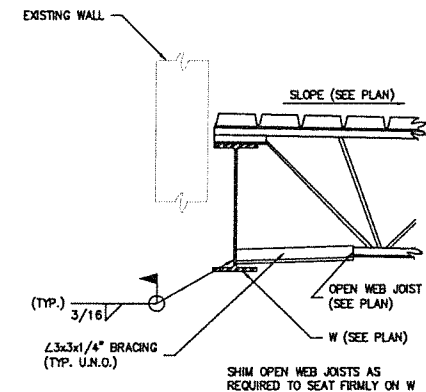
SECTION D
SCALE: 1" = 1'-0" S2.0/S3.0



SECTION E
SCALE: 1" = 1'-0" S2.0/S3.0



SECTION F
SCALE: 1" = 1'-0" S2.0/S3.0



SECTION G
SCALE: 1" = 1'-0" S2.0/S3.0

NOTES

- GENERAL**
- SHOP DRAWINGS MUST BE CHECKED BY THE FABRICATOR AND BEAR CHECKER'S INITIALS AND APPROVED BY THE GENERAL CONTRACTOR BEFORE BEING SUBMITTED FOR REVIEW. REVIEW OF SHOP DRAWINGS IS LIMITED TO CHECKING FOR CONFORMANCE WITH DESIGN DRAWINGS AND STRENGTH OF COMPONENTS. CONTRACTOR IS RESPONSIBLE FOR ANY CHANGES FROM DESIGN DRAWINGS, DIMENSIONAL ERRORS OR OMISSIONS IN SHOP DRAWINGS.
 - DESIGN LOADS:
FLOOR LOAD: OFFICE 50 P.S.F.
ROOF LIVE LOAD 20 P.S.F.
DESIGN WIND LOAD 143 MPH - EXPOSURE CATEGORY B
IMPORTANCE FACTOR 2 ENCLOSED BUILDING - M.W.F.R.S. OR COMPONENTS AND CLADDING
 - GENERAL CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION, SERVICES AND THE SITE. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IN DRAWINGS OR WITH FIELD CONDITIONS BEFORE PROCEEDING WITH WORK.
 - SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OTHER PERTINENT INFORMATION RELATED TO THE STRUCTURAL WORK AND COORDINATE AS REQUIRED.
 - THE BUILDING IS NOT STRUCTURALLY STABLE UNTIL CONNECTIONS, FRAMING, SHEAR WALLS, AND EXTERIOR LOAD BEARING METAL STUD WALLS ARE COMPLETE AND HAVE ACHIEVED DESIGN STRENGTH. CONTRACTOR IS SOLELY RESPONSIBLE TO MAINTAIN STRUCTURAL STABILITY DURING ERECTION AND CONSTRUCTION. TEMPORARY BRACING SYSTEMS ARE NOT TO BE REMOVED UNTIL STRUCTURAL WORK IS COMPLETE.
- STRUCTURAL STEEL**
- DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH LATEST AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS
 - MATERIAL
A. STRUCTURAL SHAPES, PLATES-ASTM A572 GRADE 50.
B. TUBE COLUMNS-ASTM A500-GRADE B-FY-46 KSI
C. BOLTS: CONNECTIONS ASTM A325.
ANCHOR BOLTS F1554 GRADE 36.
D. WELDING ELECTRODES: E70XX SERIES
E. PAINT: APPROVED PRIMER-2 MILS THICK. DO NOT PAINT SURFACES TO BE WELDED, EMBEDDED IN CONCRETE OR MASONRY, OR CONTACT SURFACES OF FRICTION CONNECTIONS.
 - SHOP CONNECTIONS: WELDED UNLESS OTHERWISE NOTED.
 - FIELD CONNECTIONS: 3/4" HIGH STRENGTH BOLTS, AS REQUIRED.
 - WELDING BY CERTIFIED WELDERS AND IN ACCORDANCE WITH AWS D1.1-94, STRUCTURAL WELDING CODE.
 - ELECTRODES USED FOR SUBMERGED ARC AND SHIELDED METAL ARC WELDING SHALL BE COMPATIBLE WITH THE STRUCTURAL STEEL AS SPECIFIED IN AWS AND AISC.
 - PROVIDE FRAMED BEAM CONNECTIONS AS PER AISC MANUAL, PART 4; SIZED FROM ALLOWABLE LOAD TABLES PART 2; FROM REACTIONS NOTED ON THE DESIGN DRAWINGS; OR AS DETAILED ON THE DESIGN DRAWINGS (MOST STRINGENT DESIGN GOVERNS).
 - PROVIDE TWO 3/8" STIFFENER PLATES (1 EACH SIDE) FOR BEAMS FRAMING OVER COLUMNS OR SUPPORTING COLUMNS OR HANGERS. WELD THE PLATES TO THE TOP AND BOTTOM FLANGES AND TO THE WEB.
 - SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND SITE DRAWINGS FOR DIMENSIONS AND DETAILS REQUIRED FOR STEEL WORK NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - STRUCTURAL STEEL CONTRACTOR SHALL VERIFY IN THE FIELD EXISTING CONDITIONS AT THE SITE PRIOR TO BEGINNING ANY WORK. IF EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS AS SHOWN; NOTIFY ENGINEER IMMEDIATELY AND PROVIDE A SKETCH OF THE CONDITION WITH PROPOSED MODIFICATION FOR REVIEW BY ARCHITECT.
 - PROVIDE HOLES IN THE STRUCTURAL STEEL AS REQUIRED TO ATTACH THE WOOD BLOCKING. SEE ARCHITECTURAL DRAWINGS.

FIELD QUALITY CONTROL

- INSPECTION OF FIELD ASSEMBLIES WITH HIGH STRENGTH BOLTS, IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 BOLTS. INSPECTION SHALL INCLUDE APPROVAL OF PROCEDURE FOR CALIBRATION OF WRENCHES AND INSTALLATION OF BOLTS.
- THE HIGH-STRENGTH STEEL BOLTS SHALL BE CHECKED BY A TESTING AGENCY, COST FOR SUCH TESTING SHALL BE PAID FOR BY OWNER. BOLTS SHALL BE CHECKED AFTER THEIR INSTALLATION BY A PROCEDURE OF RETIGHTENING NOT LESS THAN 10% AND IN NO CASE, LESS THAN TWO BOLTS PER JOINT. THE PROCEDURE SHALL BE AN APPROVED METHOD OF TESTING TO ESTABLISH THAT WHEN THE NUT IS RETORQUED TO ITS ORIGINAL POSITION, THE BOLT TENSION IS NOT LESS THAN THAT REQUIRED BY ITS ORIGINAL POSITION. THE BOLT TENSION IS NOT LESS THAN THAT REQUIRED BY SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A 325 BOLTS.
- SHOP DRAWINGS TO INCLUDE ERECTION PLANS AND FABRICATION DETAIL FOR STEEL FRAMING. INDICATE PAINT TO BE USED. (NON-LEAD FORMULATION)

STEEL JOISTS

- STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST STEEL JOIST INSTITUTE SPECIFICATIONS.
- BAR JOISTS ARE AT MAXIMUM DESIGN SPACING. SHIM JOISTS WHERE NECESSARY OR PROVIDE DEEPER ENDS.
- PROVIDE BRIDGING AS CALLED FOR ON THE DESIGN DRAWINGS AND IN ACCORDANCE WITH ISI STANDARDS. INCLUDE PROVISIONS FOR SAFETY DURING ERECTION. ENDS OF BRIDGING LINES SHALL BE ANCHORED TO MASONRY WALLS OR STEEL BEAMS.
- WELD STEEL JOISTS TO SUPPORTING STEEL MEMBERS, EXCEPT AT EXPANSION JOINTS.
- SUBMIT SHOP DRAWINGS SHOWING MARK NUMBERS, BRIDGING, SPECIAL CONDITIONS, ETC. PRIOR TO FABRICATION.
- PROVIDE ONE SHOP COAT OF A RUST INHIBITIVE PRIMER TO STEEL JOISTS.

STEEL DECK

- FURNISH AND INSTALL STEEL DECK IN ACCORDANCE WITH STEEL DECK INSTITUTE SPECIFICATIONS AND FACTORY MUTUAL I-28.
- DECK TYPES, UNLESS SHOWN OTHERWISE ON DRAWINGS:
ROOF DECK: WULCRAFT 1.5 A 22 GA.
- WELDING TO BE DONE IN ACCORDANCE WITH AWS D1.3, SHEET METAL WELDING CODE, UNLESS NOTED OTHERWISE.
- USE WELD WASHERS FOR 22 GA. OR LESS THICKNESS ROOF DECK IN ACCORDANCE WITH FM I-28.
- SUBMIT SHOP DRAWINGS OF DECK INCLUDING FASTENING AND SHORING.

NEW ORLEANS	LOUISIANA	DATE	05/08/2023	MTD	BY
SIDNEY PULTIZER JR		FOR PERMIT		MARK	DESCRIPTION
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4300 WASHINGTON AVENUE					
FRAMING NOTES AND DETAILS					
DRAWN MLM		DATE			
CHECKED MTD		05/08/2023			
DATE		CEI PROJECT NO.			
2022 - 167		SHEET			
S3.0					





Building/Construction
Related Permit



Date _____	Received by _____
Tracking Number _____	

DEVELOPMENT PLAN AND DESIGN REVIEW APPLICATION

Covid-19 Submittal Protocol: Please submit complete applications via email to CPCinfo@nola.gov. Applicants without the ability to submit via email should contact (504) 658-7100 to make alternative arrangements. Incomplete applications will not be accepted and will be returned to the applicant. Review time depends on the complexity of the project and can take up to 90 days.

Type of application: Design Review Interim Zoning Districts Appeal Moratorium Appeal

Property Location 4300 Washington Avenue

APPLICANT INFORMATION

Applicant Identity: Property Owner Agent

Applicant Name Carubba Engineering - John Lambertson, Jr.

Applicant Address 3400 Hessmer Avenue

City Metairie State LA Zip 70002

Applicant Contact Number 504-888-1490 Email john@carubbaengineering.com

PROPERTY OWNER INFORMATION

SAME AS ABOVE

Property Owner Name For Paws, LLC

Property Owner Address 170 Walnut Street, Unit 8F

City New Orleans State LA Zip 70118

Property Owner Contact Number 504-427-0623 Email chiliwear2@aol.com

PROJECT DESCRIPTION

4,268 SF proposed addition to existing non-profit animal medical center. Demand for low cost animal medical care continues to increase. This addition will help keep pace with the demand.

REASON FOR REVIEW (REQUIRED FOR DESIGN REVIEW)

Design Overlay District Review

- Character Preservation Corridor
- Riverfront Design Overlay
- Enhancement Corridor
- Corridor Transformation
- Greenway Corridor
- Others as required

Non-Design Overlay District Review

- Development over 40,000 sf
- Public Market
- CBD FAR Bonus
- Wireless Antenna/Tower
- Educational Facility

- Changes to Approved Plans
- DAC Review of Public Projects
- Others as Required

ADDITIONAL INFORMATION

Current Use Animal Medical Center (non-profit)

Proposed Use Animal Medical Center (non-profit)

Square Number N/A

Lot Number 2

Permeable Open Space (sf) 6016

New Development? Yes No

Addition? Yes No

Tenant Width 99

Existing Structure(s)? Yes No

Renovations? Yes No

Building Width 99

Change in Use? Yes No

Existing Signs? Yes No

Lot Width (sf) 27225

New Sign(s)? Yes No

Lot Area (sf) 27225

Building Area (sf) 8833