DRAINAGE REPORT

LA BRISA INN

Parker
MCEI FILE NO. 1343.02

PREPARED BY:

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14 March 2023
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1.1 INTRODUCTION

This drainage report was prepared for a proposed hotel reconstruction development in the City of Parker, Florida known as Panama City Marina Hotel and Restaurant. The site consists of one (1) parcel with a total area of 1.88± acres with no wetlands on site and is identified by the Bay County Property Appraiser's office as Parcel ID **25818-040-000**. A vicinity map is included within this permit application for your reference.



1.2 STORMWATER MODELING TECHNIQUES

Interconnected Channel & Pond Routing (ICPR version 3.02) was used as the stormwater management facility modeling software. This program has been accepted by numerous regulatory agencies across Florida and is accepted by FEMA for Flood Insurance projects. ICPR uses a link-node concept to idealize real-world systems. A node is a discrete location in the drainage system where conservation of mass or continuity is maintained. Links are the connections between nodes and are used to transfer or convey water through the drainage system. A Node-Link Diagram, Node Maximum Conditions (Maximum Stage Elevation) and Link Maximum Conditions (Post Development Flow Rate) has been included.

2.0 DESIGN CRITERIA

The development has been designed to meet the treatment requirements of both the City of Parker and Northwest Florida Water Management.

2.1 Water Quality

To comply with the City of Parker's requirements, the stormwater management facility (SWMF) for the proposed drainage area must provide treatment for the first 1/2" of runoff from the drainage area. The total volume must be recovered within 72 hours.

2.2 Water Quantity Criteria per ERP Applicant's Handbook Volume II, Part 3.0

Systems that meet any of the following thresholds must be designed, constructed, operated, and maintained in accordance with this Part: (a) Systems that serve projects of 40 or more acres of total land area; (b) Systems that provide for the placement of 12 or more acres of impervious surface, which also constitutes more than 40 percent of the total land area; or (c) Systems that are at any time capable of impounding a volume of water exceeding 40 acre-feet. The total site area is less than 40 acres, contains less than 12 acres of impervious area and is not capable of impounding a volume of water in excess of 40 acre-feet, and therefore **is exempt** from water quantity and flood control requirements.

2.3 Peak Discharge Attenuation Criteria to Protect Streambanks, per ERP Applicant's Handbook Volume II, Part 4.5.1

For systems serving new construction that is greater than 50 percent impervious (excluding water bodies) of the project area, the post development peak discharge rate must not exceed the pre-development peak discharge rate for the 2-year, 24-hour design storm event, utilizing a Natural Resource Conservation Service (NRCS) type III rainfall distribution with an antecedent moisture condition II. The site area contains **more than** 50% impervious area, and therefore is not exempt from peak discharge attenuation criteria to protect streambanks.

2.4 Flood Attenuation (City of Parker)

To comply with the requirements of The City of Parker, the post development peak discharge rate must not exceed the pre development discharge rate for the 25 year-24-hour storm event.

3.0 PRE-DEVELOPMENT

3.1 Background.

Drainage Area 1

This drainage area is for La Brisa Hotel reconstruction and its parking facility. The existing site has positive fall from approximate EL. 13.0 at the northeast corner to EL. 10.0 along the southern boundary. The site is bordered by Highway 98 rights of way to the west, residential properties to the east, commercial property to the north and vacant property within the government of the City of Parker to the south.

3.2 Time of Concentration (TOC_{pre})

The pre-development time of concentration was calculated using the TR-55 Manual for Small Urban Watersheds methodology which uses sheet flow, shallow concentrated flow and channel flow to determine time of concentrations. The TOC_{pre} result is summarized in Appendix B.

3.2 Geotechnical Information.

Geotechnical exploration was performed by Magnum Engineering for seasonal high water table determination and permeability rates. The soils within this area encountered during the borings were brown/gray slightly silty fine sands from the ground surface to the boring termination depth of 8-feet below existing grade. Groundwater was encountered roughly 5.0 feet below existing grade at the time of drilling. The NRCS Soil Survey indicates Type A soils on the property which was consistent with the geotechnical report.

4.0 POST DEVELOPMENT

The stormwater management system has been designed for the proposed redevelopment and consists of one (1) drainage area utilizing a dry retention pond to provide treatment and attenuation.

4.1 Receiving Waters

The receiving waters for discharges from the site will be to the groundwater and to Pitts Bayou. Groundwater was encountered during the geotechnical exploration at 5.0 feet below existing grade. Based on depth of boring, the tailwater elevation for the groundwater table was conservatively estimated to be elevation 8.0 feet, NAVD88.

4.2 Drainage Area 1 (DA 1).

Drainage Area 1 contains a dry retention pond that provides treatment for ± 1.88 acres. The treatment volume required for this drainage basin was for the first 1/2" of runoff since it was designed as an off-line system. One FDOT Inlet Type C will be installed in order to treat and attenuate the runoff prior to discharge. This drainage area has been designed for the proposed development containing 1.57 acres of onsite impervious area. The top of the pond is set at EL 12.00 and the bottom at El. 10.00.

Seasonal high groundwater was estimated during the geotechnical exploration at EL 8.00.

4.3 CN Summary

The post development site is considered to be developed with SCS Type "A" soil classification. The resulting SCS curve number calculated for the drainage area is summarized in Appendix B. The CN value in the post for the undisturbed/grassed areas are lower due to clean fill being utilized on the lot and the existing soils are very low and subject to seasonal high water table effects. The post condition will be compacted but not subject to the water table, allowing higher permeability.

4.4 Time of Concentration Summary

The post development time of concentration was calculated using the TR-55 Manual for Small Urban Watersheds methodology which uses sheet flow, shallow concentrated flow and channel flow to determine time of concentrations. The TOC_{post} result is summarized in Appendix B.

4.5 100-Year Floodplain Evaluation.

The subject parcel is not located within the 100-year floodplain according to FEMA and the Bay County GIS Flood Map.

5.0 CONCLUSION

The design of the stormwater management system for this project comply with the requirements of the following:

DRAINAGE AREA 1 SUMMARY

Drainage Area	1.88 acres
Impervious Area	1.57 acres
1/2" of Runoff Treatment Required	3,418 cf
Treatment Volume Provided	3,743 cf
Outfall: FDOT Type C Inlet	EL. 11.80
Weir (8" PVC pipe with an Elbow)	Inv. 11.00
Outfall pipes	Two (2) existing 8" PVC pipes

5.1 NWFWMD

The development meets/exceeds the requirements for first 1/2" of runoff.

5.2 FDEP

Erosion control measures will be utilized throughout the construction phase of this project to restrict any turbid runoff from leaving the construction site. Installation details for silt fences and inlet sediment barriers, where applicable, are included within this permit application.

5.3 City of Parker

The design of the stormwater management system for this project complies with the City's stormwater regulations. The city requires that the post development discharge runoff rate for the 25-year, 24-hour storm event cannot exceed the pre development discharge rate.

CRITICAL DURATION ANALYSIS
25 YEAR, 24 HOUR STORM EVENT
DRAINAGE AREA 1

Description	24 Hour
Pre-Dev Runoff (cfs)	1.06
Post –Dev Runoff (cfs)	1.05
Top Bank El (ft)	12.00
Peak Stage (ft)	11.78
Freeboard (ft)	0.22

APPENDIX A

STORAGE RETENTION CALCULATIONS

LA BRISA INN - FILE NO. 1343.02
McNeil Carroll Engineering, Inc.

REQ'D: Volume of storage (retention) for 1/2" rule or runoff from one inch of rainfall

Drainage Area =	1.88 acre	or	82,039 sq. ft		
Impervious Area =	1.57 acre	or	68,352 sq. ft		
Pervious Area =	0.31 acre				
Offsite Site =	0.00 acre		0 sq. ft		
Offsite Impervious Area =	0.00 acre		0 sq. ft	Runoff Coefficient =	0.88
Offsite Pervious Area =	0.00 acre				
Impervious Surface Area =	83.32 %		Water Quantity Criteria Required per 3.1 =		NO
Top Bank Basin Area =	0.15 acre		Peak Discharge Attenuation Required per 4.5.1=		TRUE, 2-YR, 24-HR
Soils Group =	A	(A,B,C,D,B/D)			
Fillable porosity = f =	0.30				
K_{vs}=	30.00 ft/day	use	15.00 ft/day	7.5 in/hr	
K_H=	45.00 ft/day	use	22.50 ft/day		
FS=	2.00		Length of Bottom of Basin =	137 ft	
Basin Bottom Elevation=	10.00		Width of Bottom of Basin =	21 ft	
SHWT=	8.00 ft				
Impervious Layer Elevation=	0.00				
h_b=	2.00				

Retention Required

1/2" of runoff = $\frac{\text{(site area)(0.5 in)(43560 ft}^2\text{/ac)}}{\text{12 in/ft}}$

1/2" of runoff= 3418 cf

STAGE/STORAGE

Elevation	Area (sq. ft.)	Area (acres)	Volume (cu. Ft.)	Perc (cfs)
10.00	2,890	0.066	0	0.50
10.50	3,847	0.088	1,684	0.67
11.00	4,678	0.107	3,784	0.81
11.50	5,513	0.127	6,302	0.96
12.00	6,369	0.146	9,259	1.11

Treatment Volume occurs above EL. 10.50

SOLUTION:

Storage required =	3,418 cf	or	0.078 ac-ft			
Minimum depth =	0.91 ft					
Req'd overflow set @	10.91 ft	Overflow set @	11.00 ft	Vol set/Vol req'd =	1.095	= Safety Factor

Part II - Unsaturated Vertical Flow Analysis

Treatment Volume Depth (h_v)=	1.00 ft	
Height of water to saturate (h_u)=f(h_b)=	0.60 ft	saturated lateral flow will occur
Volume infiltrated during Stage One (V_u)=	1734 cf	(Eq. 13-3; A_b h_b f)
Unsaturated vertical hydraulic conductivity (K_{vu})=	30.00 ft/day	(DRI Test)
Design Infiltration Rate (I_d)=	15.00 ft/day	(Eq. 13-1; K_{vu}/FS)
Time to saturate soil beneath the basin (t_{sat})=	0.04 days or	0.96 hours (Eq. 13-2; f h_b / I_d)

Part III - Saturated Lateral Flow Analysis

Remaining volume to be infiltrated under saturated lateral flow=	1684 cf	(storage required - volume infiltrated during Stage One)
Elevation of treatment volume at start of saturated lateral flow=	10.58 ft	
height of water in the basin at start of saturated lateral flow (h_2)=	0.58 ft	
height of water in the basin above initial GWT at start of sat lat flow (H_T)=	2.58 ft	(Eq. 13-8; $H_T=h_b+h_2$)
F_y=	0.77	(Eq. 13-6; $F_y=h_c/H_T$)
Basin length to width ratio (L/W)=	6.49	
F_x=	2.00	(from Figure 13-7)
Time to recover remaining treatment volume under saturated lateral flow		
H=	8.00 ft	
Average saturated thickness (D) =	9.00 ft	(Eq. 13-7; D=H + h_c/2)
time (t)=	0.14 days	(Eq. 13-9; $t=W^2/(4 K_H D F^2_x)$

Part IV - Total Recovery Time

Total recovery time (t_{Total})= 0.18 days or 4.3 hours

McNEIL—CARROLL ENGINEERING, INC.

APPENDIX B

CURVE NUMBER CALCULATION

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Total Runoff Area 82,039 ft^2
1.88 acres

PRE-DEVELOPMENT

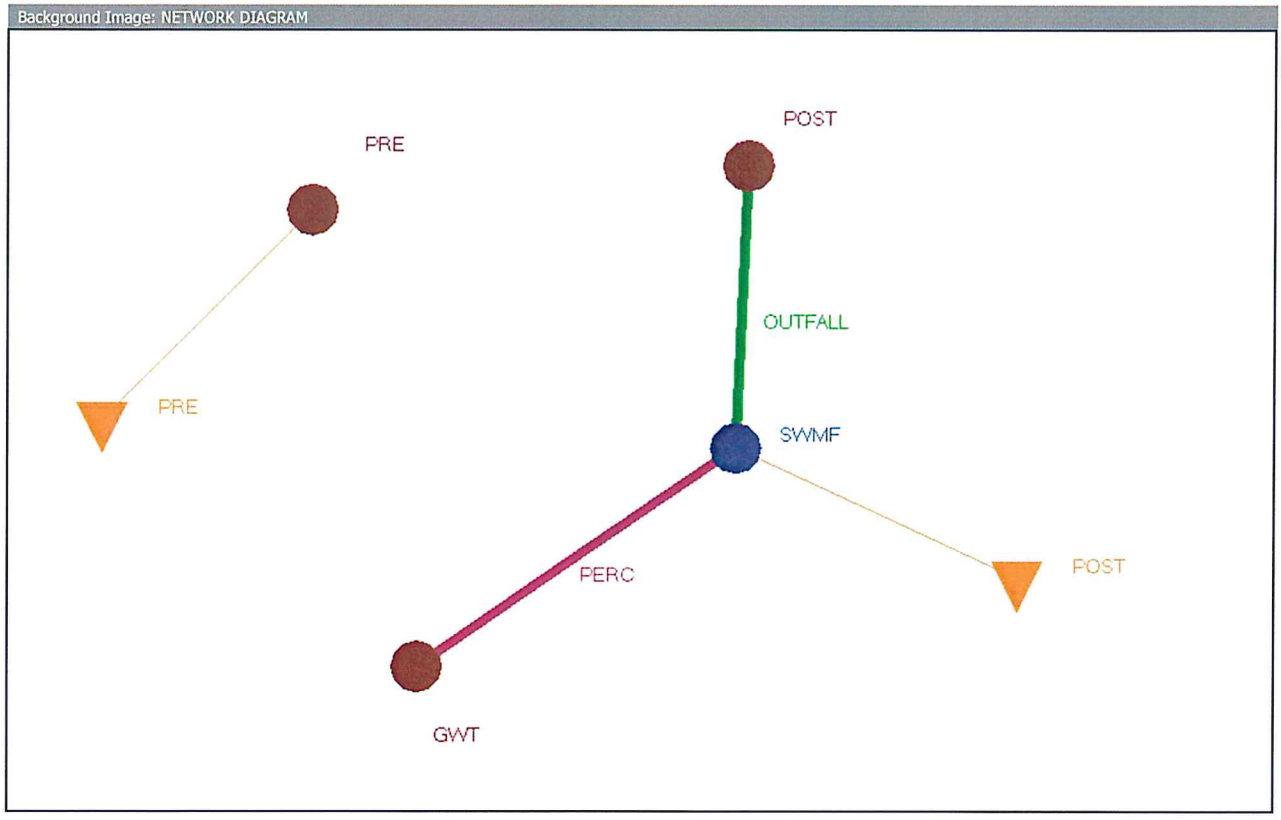
	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN SOIL GROUP				CN*A	Total
LAND USE	Area (ft^2)	%	Area (ft^2)	%	Area (ft^2)	%	Area (ft^2)	%	A	B	C	D		Area
Woods (Poor)		0.00%		0.00%		0.00%		0.00%	45	66	77	83	0	0
Woods (Fair)		0.00%		0.00%		0.00%		0.00%	36	60	73	79	0	0
Woods (Good)		0.00%		0.00%		0.00%		0.00%	30	55	70	77	0	0
Woods/Grass (Poor)	57,427	70.00%		0.00%		0.00%		0.00%	57	73	82	86	3,273,356	57,427
Woods/Grass (Fair)		0.00%		0.00%		0.00%		0.00%	40	65	76	82	0	0
Woods/Grass (Good)		0.00%		0.00%		0.00%		0.00%	32	58	72	79	0	0
Dirt		0.00%		0.00%		0.00%		0.00%	72	82	87	89	0	0
Grass (Fair)		0.00%		0.00%		0.00%		0.00%	49	69	79	84	0	0
Grass (Good)	24,612	30.00%		0.00%		0.00%		0.00%	39	61	74	80	959,856	24,612
1/8 Ac. Residential		0.00%		0.00%		0.00%		0.00%	77	85	90	92	0	0
1/5 Ac. Residential		0.00%		0.00%		0.00%		0.00%	69	80	87	90	0	0
1/4 Ac. Residential		0.00%		0.00%		0.00%		0.00%	61	75	83	87	0	0
1/3 Ac. Residential		0.00%		0.00%		0.00%		0.00%	57	72	81	86	0	0
1/2 Ac. Residential		0.00%		0.00%		0.00%		0.00%	54	70	80	85	0	0
1 Ac. Residential		0.00%		0.00%		0.00%		0.00%	51	68	79	84	0	0
2 Ac. Residential		0.00%		0.00%		0.00%		0.00%	46	65	77	82	0	0
Industrial		0.00%		0.00%		0.00%		0.00%	81	88	91	93	0	0
Gravel Parking		0.00%		0.00%		0.00%		0.00%	76	92	94	95	0	0
Streets and Roads		0.00%		0.00%		0.00%		0.00%	98	98	98	98	0	0
Standing Water		0.00%		0.00%		0.00%		0.00%	100	100	100	100	0	0
TOTALS	82,039	100%	0	0%	0	0%	0	0%		COMPOSITE CN		52	4,233,212	82,039

POST-DEVELOPMENT

	TYPE A SOILS		TYPE B SOILS		TYPE C SOILS		TYPE D SOILS		CN SOIL GROUP				CN*A	Total
LAND USE	Area (ft^2)	%	Area (ft^2)	%	Area (ft^2)	%	Area (ft^2)	%	A	B	C	D		Area
Woods (Poor)	0	0.00%	0	0.00%	0	0.00%	0	0.00%	45	66	77	83	0	0
Woods (Fair)	0	0.00%	0	0.00%	0	0.00%	0	0.00%	36	60	73	79	0	0
Woods (Good)	0	0.00%	0	0.00%	0	0.00%	0	0.00%	30	55	70	77	0	0
Woods/Grass (Poor)	0	0.00%	0	0.00%	0	0.00%	0	0.00%	57	73	82	86	0	0
Woods/Grass (Fair)	0	0.00%	0	0.00%	0	0.00%	0	0.00%	43	65	76	82	0	0
Woods/Grass (Good)	0	0.00%		0.00%	0	0.00%	0	0.00%	32	58	72	79	0	0
Dirt	0	0.00%	0	0.00%	0	0.00%	0	0.00%	72	82	87	89	0	0
Grass (Fair)	0	0.00%	0	0.00%	0	0.00%	0	0.00%	49	69	79	84	0	0
Grass (Good)	13,687	16.68%		0.00%	0	0.00%	0	0.00%	39	61	74	80	533,793	13,687
1/8 Ac. Residential	0	0.00%	0	0.00%	0	0.00%	0	0.00%	77	85	90	92	0	0
1/5 Ac. Residential	0	0.00%	0	0.00%	0	0.00%	0	0.00%	69	80	87	90	0	0
1/4 Ac. Residential	0	0.00%	0	0.00%	0	0.00%	0	0.00%	61	75	83	87	0	0
1/3 Ac. Residential	0	0.00%	0	0.00%	0	0.00%	0	0.00%	57	72	81	86	0	0
1/2 Ac. Residential	0	0.00%	0	0.00%	0	0.00%	0	0.00%	54	70	80	85	0	0
1 Ac. Residential	0	0.00%	0	0.00%	0	0.00%	0	0.00%	51	68	79	84	0	0
2 Ac. Residential	0	0.00%	0	0.00%	0	0.00%	0	0.00%	46	65	77	82	0	0
Industrial	0	0.00%	0	0.00%	0	0.00%	0	0.00%	81	88	91	93	0	0
Commercial	0	0.00%	0	0.00%	0	0.00%	0	0.00%	89	92	94	95	0	0
Streets and Roads	68,352	83.32%	0	0.00%	0	0.00%	0	0.00%	98	98	98	98	6,698,496	68,352
Standing Water	0	0.00%	0	0.00%	0	0.00%	0	0.00%	100	100	100	100	0	0
TOTALS	82,039	100%	0	0%	0	0%	0	0%		COMPOSITE CN		88	7,232,289	82,039

McNEIL—CARROLL
ENGINEERING, INC.

Background Image: NETWORK DIAGRAM



Sim	Node Name	Maximum Total Inflow Rate [cfs]	Time to Maximum Total Inflow Rate [hrs]
025-024	PRE	1.06	12.0154

Simple Basin: POST

Scenario:	TRYING POND
Node:	SWMF
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	1.8800 ac
Curve Number:	88.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Simple Basin: PRE

Scenario:	TRYING POND
Node:	PRE
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	0.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	1.8800 ac
Curve Number:	52.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	

Comment:

Node: GWT

Scenario:	TRYING POND
Type:	Time/Stage
Base Flow:	0.00 cfs
Initial Stage:	8.00 ft
Warning Stage:	9.00 ft
Boundary Stage:	

Comment:

Node: POST

Scenario:	TRYING POND
Type:	Time/Stage
Base Flow:	0.00 cfs
Initial Stage:	8.45 ft
Warning Stage:	9.00 ft
Boundary Stage:	

Comment:

Node: PRE

Scenario:	TRYING POND
Type:	Time/Stage
Base Flow:	0.00 cfs
Initial Stage:	0.00 ft
Warning Stage:	0.00 ft
Boundary Stage:	

Comment:

Node: SWMF

Scenario: TRYING POND
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 10.00 ft
Warning Stage: 11.75 ft

Stage [ft]	Area [ac]	Area [ft2]
10.00	0.0660	2875
10.50	0.0880	3833
11.00	0.1070	4661
11.50	0.1270	5532
12.00	0.1460	6360

Comment:

Drop Structure Link: OUTFALL		Upstream Pipe		Downstream Pipe	
Scenario:	TRYING POND	Invert:	10.90 ft	Invert:	10.29 ft
From Node:	SWMF	Manning's N:	0.0100	Manning's N:	0.0100
To Node:	POST	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	0.67 ft	Max Depth:	0.67 ft
Flow Direction:	Both	Bottom Clip			
Solution:	Combine	Default:	0.00 ft	Default:	0.00 ft
Increments:	0	Op Table:		Op Table:	
Pipe Count:	2	Ref Node:		Ref Node:	
Damping:	0.0000 ft	Manning's N:	0.0000	Manning's N:	0.0000
Length:	190.00 ft	Top Clip			
FHWA Code:	1	Default:	0.00 ft	Default:	0.00 ft
Entr Loss Coef:	0.50	Op Table:		Op Table:	
Exit Loss Coef:	1.00	Ref Node:		Ref Node:	
Bend Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Bend Location:	0.00 dec				
Energy Switch:	Energy				

Pipe Comment:

Weir Component		Bottom Clip	
Weir:	1	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Horizontal	Default:	0.00 ft
Geometry Type:	Circular	Op Table:	
Invert:	11.00 ft	Ref Node:	
Control Elevation:	10.50 ft	Discharge Coefficients	
Max Depth:	0.67 ft	Weir Default:	3.200
		Weir Table:	
		Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Weir Component		Bottom Clip	
Weir:	2	Default:	0.00 ft
Weir Count:	1	Op Table:	
Weir Flow Direction:	Both	Ref Node:	
Damping:	0.0000 ft	Top Clip	
Weir Type:	Horizontal	Default:	0.00 ft
Geometry Type:	Rectangular	Op Table:	
Invert:	11.80 ft	Ref Node:	
Control Elevation:	11.80 ft	Discharge Coefficients	
Max Depth:	3.08 ft	Weir Default:	3.200
Max Width:	2.00 ft	Weir Table:	
Fillet:	0.00 ft	Orifice Default:	0.600
		Orifice Table:	

Weir Comment:

Drop Structure Comment:

Percolation Link: PERC

Scenario:	TRYING POND	Surface Area Option:	Vary Based on Stage/Area Table
From Node:	SWMF		
To Node:	GWT	Vertical Flow Termination:	Horizontal Flow Algorithm
Link Count:	1	Perimeter 1:	923.00 ft
Flow Direction:	Both	Perimeter 2:	1245.00 ft
Aquifer Base Elevation:	0.00 ft	Perimeter 3:	1821.00 ft
Water Table Elevation:	8.00 ft	Distance P1 to P2:	25.00 ft
Annual Recharge Rate:	0 ipy	Distance P2 to P3:	100.00 ft
Horizontal Conductivity:	22.500 fpd	# of Cells P1 to P2:	5
Vertical Conductivity:	15.000 fpd	# of Cells P2 to P3:	10
Fillable Porosity:	0.300		
Layer Thickness:	2.00 ft		

Comment:

Simulation: DRAWDOWN

Scenario: DRAWDOWN
Run Date/Time: 1/19/2023 11:08:32 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	100.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching:	SAOR	IA Recovery Time:	24.0000 hr
Max Iterations:	6		
Over-Relax Weight Fact:	0.5 dec		
dZ Tolerance:	0.0010 ft	Smp/Man Basin Rain Opt:	No Rainfall
Max dZ:	1.0000 ft		
Link Optimizer Tol:	0.0001 ft		
Edge Length Option:	Automatic		
		Dflt Damping (1D):	0.0050 ft
		Min Node Srf Area (1D):	100 ft2
		Energy Switch (1D):	Energy

Comment:

Simulation: 025-024

Scenario: TRYING POND
Run Date/Time: 1/19/2023 11:08:40 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		30.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	15.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder:

Unit Hydrograph Folder:

Lookup Tables

Boundary Stage Set:
Extern Hydrograph Set:
Curve Number Set:

Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft

Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

Edge Length Option: Automatic

IA Recovery Time: 24.0000 hr

Smp/Man Basin Rain Opt: Global

Rainfall Name: ~FDOT-24
Rainfall Amount: 11.00 in
Storm Duration: 24.0000 hr

Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Sim	Node Name	Maximum Stage [ft]
025-024	SWMF	11.78

Sim	Node Name	Maximum Total Inflow Rate [cfs]	Time to Maximum Total Inflow Rate [hrs]
025-024	POST	1.05	12.1557

APPENDIX C

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Bay County, Florida



June 17, 2022

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:995 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 10 20 40 60

Feet: 0 45 90 180 270

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bay County, Florida
Survey Area Data: Version 21, Sep 7, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 2, 2020—Dec 8, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
27	Mandarin sand, 0 to 2 percent slopes	0.8	38.7%
42	Resota fine sand, 0 to 5 percent slopes	1.2	61.3%
Totals for Area of Interest		**2.0**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Bay County, Florida

27—Mandarin sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2w4g9
Elevation: 10 to 70 feet
Mean annual precipitation: 61 to 69 inches
Mean annual air temperature: 63 to 70 degrees F
Frost-free period: 252 to 282 days
Farmland classification: Not prime farmland

Map Unit Composition

Mandarin and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mandarin

Setting

Landform: Flats on marine terraces, rises on marine terraces
Landform position (three-dimensional): Talf, rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 7 inches: sand
E - 7 to 25 inches: sand
Bh - 25 to 57 inches: sand
C - 57 to 80 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 18 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Forage suitability group: Sandy soils on rises and knolls of mesic uplands (G152AA131FL)
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G152AA131FL)
Hydric soil rating: No

Minor Components

Chipley

Percent of map unit: 5 percent
Landform: Flats on marine terraces, rises on marine terraces, knolls on marine terraces
Landform position (three-dimensional): Interfluve, rise
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G152AA131FL)
Hydric soil rating: No

Hurricane

Percent of map unit: 4 percent
Landform: Flats on marine terraces, rises on marine terraces
Landform position (three-dimensional): Interfluve, rise, talf
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G152AA131FL)
Hydric soil rating: No

Foxworth

Percent of map unit: 3 percent
Landform: Ridges on marine terraces
Landform position (three-dimensional): Interfluve, riser
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G152AA121FL)
Hydric soil rating: No

Resota

Percent of map unit: 3 percent
Landform: Ridges on marine terraces, knolls on marine terraces
Landform position (three-dimensional): Interfluve, riser, rise
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G152AA121FL)
Hydric soil rating: No

42—Resota fine sand, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2ttl8
Elevation: 10 to 40 feet
Mean annual precipitation: 61 to 69 inches
Mean annual air temperature: 63 to 70 degrees F

Frost-free period: 252 to 282 days
Farmland classification: Not prime farmland

Map Unit Composition

Resota and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Resota

Setting

Landform: Ridges on marine terraces, knolls on marine terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 4 inches: fine sand
E - 4 to 19 inches: fine sand
Bw - 19 to 42 inches: fine sand
C - 42 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 to 50.00 in/hr)
Depth to water table: About 42 to 60 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Forage suitability group: Sandy soils on rises, knolls, and ridges of mesic uplands (G152AA121FL)
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G152AA121FL)
Hydric soil rating: No

Minor Components

Ortega

Percent of map unit: 4 percent
Landform: Ridges on marine terraces
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Linear

Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G152AA121FL)
Hydric soil rating: No

Kureb

Percent of map unit: 3 percent
Landform: Ridges on marine terraces, dunes on marine terraces
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands (G152AA111FL)
Hydric soil rating: No

Mandarin

Percent of map unit: 3 percent
Landform: Flats on marine terraces, rises on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G152AA131FL)
Hydric soil rating: No

Soil Information for All Uses

Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

Hydrologic Soil Group (La Brisa Inn)

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

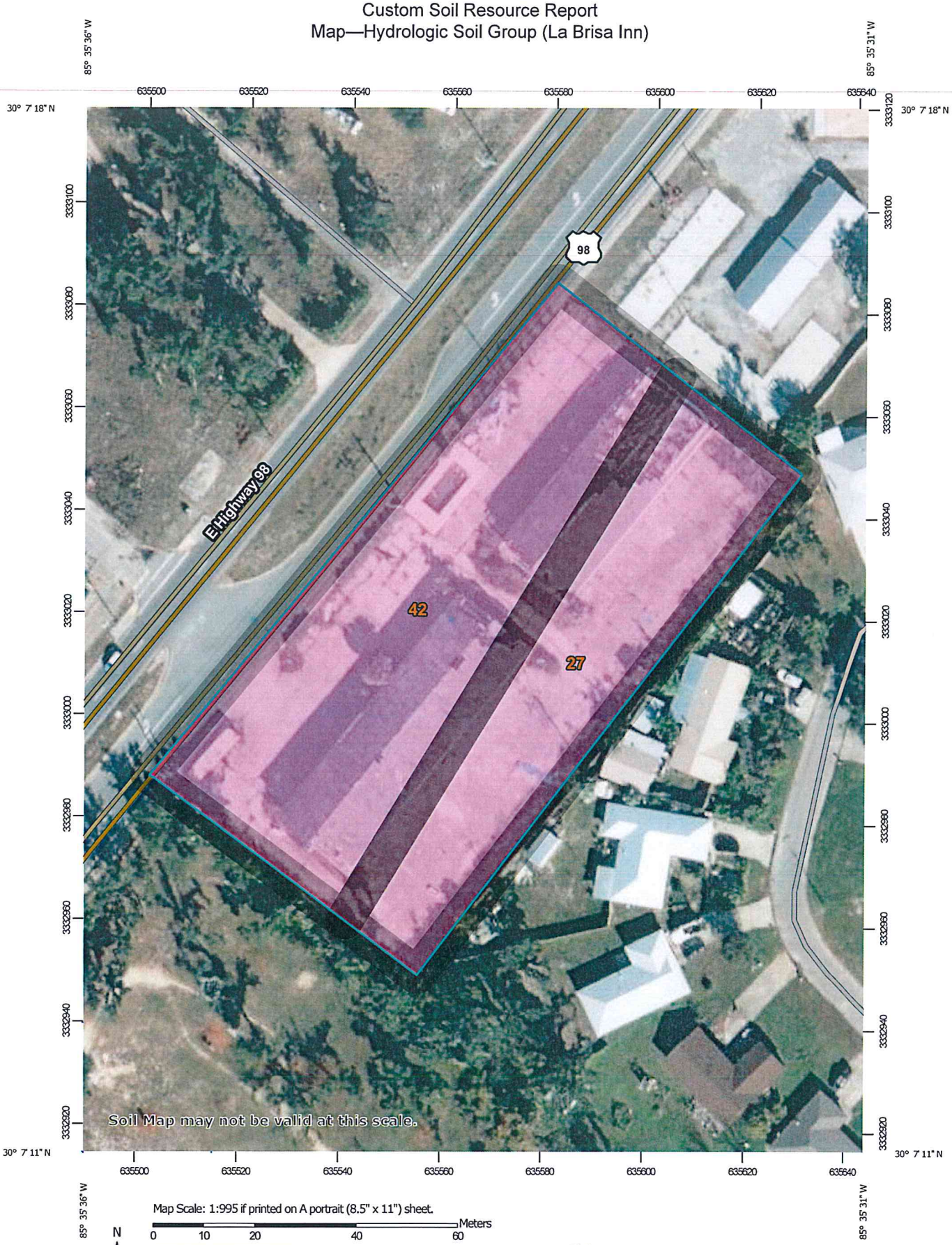
Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Custom Soil Resource Report
Map—Hydrologic Soil Group (La Brisa Inn)



Map Scale: 1:995 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 10 20 40 60

Feet: 0 45 90 180 270

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points
- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bay County, Florida
Survey Area Data: Version 21, Sep 7, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 2, 2020—Dec 8, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Table—Hydrologic Soil Group (La Brisa Inn)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
27	Mandarin sand, 0 to 2 percent slopes	A	0.8	38.7%
42	Resota fine sand, 0 to 5 percent slopes	A	1.2	61.3%
Totals for Area of Interest			**2.0**	**100.0%**

Rating Options—Hydrologic Soil Group (La Brisa Inn)

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

References

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APPENDIX D

MAGNUM ENGINEERING INC
GEOTECHNICAL ENGINEERING CONSULTANTS

GEOTECHNICAL ENGINEERING REPORT

LA BRISA
PANAMA CITY, FLORIDA

PREPARED FOR:

MR. Doug CROOK, P.E.
PANHANDLE ENGINEERING, INC.
3005 SOUTH HIGHWAY 77
LYNN HAVEN, FLORIDA 32444

1026 PIERSON DRIVE
LYNN HAVEN, FLORIDA 32444
TELEPHONE (850) 258.0994

MAGNUM ENGINEERING INC
GEOTECHNICAL ENGINEERING CONSULTANTS

February 26, 2021

Mr. Doug Crook, P.E.
Panhandle Engineering, Inc.
3005 South Highway 77
Lynn Haven, Florida 32444

SUBJECT: La Brisa - Geotechnical Services
Parker, Florida
MEI Project No. M121-107-243

Dear Mr. Slonina:

This letter forwards the results of our Geotechnical exploration for the proposed development. Our exploration consisted of One (1) 8-feet deep hand auger boring and one (1) Double Ring Infiltrometer Test (DRI) in the proposed stormwater pond area. The subsurface exploration was conducted to provide soil related information to aid in the design of an effective stormwater management system in accordance with ERP and/or local municipal regulations.

Upon completion of our field testing, the samples were brought back to the office for visual inspection, classification, and analysis by our engineering staff.

Project Information

The subject site is located east of Tyndall Parkway at the La Brisa Inn in Parker, Florida. At the time of our exploration, the site was currently a hotel site which had been damaged from Hurricane Michael back in October 2018.. Based on visual inspection, the site appeared relatively level with less than 3 feet of grade change across the site.

If any of the above information is incorrect, please inform Magnum Engineering, Inc. so that we can review and update our recommendations, as needed.

Subsurface Conditions

Figure #1 show the Boring Location Plan and Figure #2 shows the Logs of Borings for the Hand Auger borings HA-1. The test location was established in the field using a 100-foot tape and estimating right angles with reference to existing landmarks, thus, the test location should be considered approximate.

The auger boring (HA-1) generally encountered brown/gray slightly silty fine sands from the ground surface to the boring termination depth of 8-feet below existing grade.

The above subsurface descriptions are of a generalized nature, provided to highlight the major soil strata encountered. The Logs of Boring should be reviewed for specific subsurface conditions at each boring location. The stratifications shown on the Logs of Boring represent the subsurface conditions at the actual boring locations only, and variations in the subsurface conditions can and may occur between boring locations and should therefore be expected. The stratifications represent the approximate boundary between subsurface materials, and the transitions between strata may be gradual.

Please refer to the attached Logs of Borings presented as Figure #2 for a more detailed description of the soils encountered.

Groundwater Conditions

Groundwater was encountered roughly 5.0 feet below existing grade at the time of drilling (February 20, 2021), which was during a period of normal seasonal rainfall. By definition, the normal seasonal high groundwater table elevation is the highest level of the saturated zone in the soil during a year with normal rainfall. The procedure used in estimating the seasonal high groundwater table is based on adjusting the existing groundwater table encountered upward or downward, taking into consideration factors such as antecedent rainfall, redoximorphic features (identifying soil mottling) and vegetative indicators. Please refer to the table provided below for groundwater data at each boring location.

GROUNDWATER DATA

TEST LOCATION	DEPTH TO EXISTING GROUNDWATER TABLE	DEPTH TO ESTIMATED SEASONAL HIGH GROUNDWATER TABLE (ft)
HA-1	5.0 feet	4.5 feet

Large fluctuations are possible under severe weather conditions. We recommend that the Contractor verify the actual groundwater levels at the time of construction to determine potential impacts groundwater will have on construction procedures.

Double Ring Infiltrometer Test

One (1) Double Ring Infiltrometer test was performed in the field in general accordance with the procedures outlined in ASTM D-3385, ``Infiltration Rate of Soils in Field using Double Ring Infiltrometers". Testing consisted of initially clearing all surface vegetation and topsoil from within the test area. The Infiltration test was performed approximately 1.0 feet below existing grade at location DRI-1. The outer ring, which is approximately 24 inches in diameter, was then driven to a depth of 6 inches below the exposed ground surface. The inner ring, approximately 12 inches in diameter, was then centrally located within the outer ring and driven to a depth of 2 inches. The two rings were then simultaneously filled with water to a height of 4 inches above the exposed ground surface test soils. The water level was maintained at this height throughout the test period, with the required amount of water added to maintain this level in both rings recorded at time intervals of 5 minutes.

The infiltration rate for the inner ring and the annular space between the rings is determined by dividing (a) the water volume used (within each specific area) during the stabilized flow period of the test, by (b) the specific area and (c) the time interval. Infiltration rates are generally converted to units of inches per hour. The infiltration rate for the inner ring, if different than the infiltration rate of the annular area between the rings, according to ASTM, should be used as the infiltration rate for the soils.

INFILTRATION DATA

LOCATION	ORIENTATION	TEST DEPTH (feet)	SUSTAINED INFILTRATION RATE (in/hr)
DRI-1	$K_{V\ (unsaturated)}$	1.0	15.0* in/hr

Note: The above infiltration rate has not been factored and is up to the designer to apply an appropriate factor of safety.

We recommend using a transformation ratio of 1 horizontal to 1 vertical (i.e. the estimated ratio of horizontal to vertical permeability).

ENVIRONMENTAL RESOURCE PERMITTING (ERP) DESIGN PARAMETERS

DESCRIPTION	LOCATION	DESIGN PARAMTER
SUSTAINED INFILTRATION RATE (K_{VU})	DRI-1	15.0 IN/HR*
TEST DEPTH	DRI-1	1.0 FT
FILLABLE POROSITY	DRI-1	30%
DEPTH TO EXISTING GROUNDWATER TABLE	DRI-1	5.0 FT BELOW EXISTING GRADE
DEPTH TO ESTIMATED SEASONAL HIGH GROUNDWATER TABLE	DRI-1	4.5 FT BELOW EXISTING GRADE
DEPTH TO CONFINING LAYER	DRI-1	>15 FEET**

* The above infiltration rate has not been factored and it is up to the designer to apply an appropriate factor of safety.

**Based on our experience with soils in the general area.

Warranty and Limitations of Study

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either expressed or implied. Magnum Engineering, Inc. is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

Soil conditions at other locations may differ from those encountered in the test borings, and the passage of time may cause the soils conditions to change from those described in this report.

This report is intended for use by the designers of this project. While we have no objections to it being provided for review by parties to this project, it is not a specification document and is not to be used as a part of the specifications. If desired, we can assist in the development of specifications for this project based upon our exploration.

The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or his representative is therefore considered necessary to verify the subsurface conditions and to check that the soils connected construction phases are properly carried out. If significant variations or changes are in evidence, it may be necessary to reevaluate the recommendations in this report.

Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect or if additional information becomes available, a review must be made by this office to determine if any modifications in the recommendations will be necessary.

We hope this letter provides sufficient information for the present. If you have any questions or comments, please feel free to call.

Sincerely,
MAGNUM ENGINEERING, INC.

JAMES T. VICKERS, P.E.
Sr. Geotechnical Engineer
Florida Registration # 56813

JAMES T. VICKERS LICENSE No. 56813 STATE OF FLORIDA PROFESSIONAL ENGINEER

James T. Vickers, P.E.
Digitally signed by James T. Vickers, P.E.
Date: 2021.02.26 06:07:29 -06'00'

Attachments: Figure #1 – Boring Location Plan
Figure #2 – Logs of Borings
Figure #3 – Double Ring Infiltrometer Results

This item has been electronically signed and sealed by James T. Vickers, P.E. on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

MAGNUM ENGINEERING INC
GEOTECHNICAL ENGINEERING CONSULTANTS

BORING LOCATION PLAN

FIGURE # 1

Tyndall Pkwy
98
Howard Ct
HA-1/DRI-1
N
200 ft
Google Earth
© 2020 Google

MAGNUM ENGINEERING INC
GEOTECHNICAL ENGINEERING CONSULTANTS

LOGS OF BORING

FIGURE # 2

Magnum Engineering, Inc.
1026 Pierson Drive
Lynn Haven, Florida 32444
Telephone: 8502658332

BORING NUMBER HA-1

CLIENT Panhandle Engineering, Inc. **PROJECT NAME** La Brisa

PROJECT NUMBER M121-107-243 **PROJECT LOCATION** Parker, Florida

DATE STARTED 2/20/21 **COMPLETED** 2/20/21 **GROUND ELEVATION** _____ **HOLE SIZE** _____

DRILLING CONTRACTOR GeoDrill Tech, LLC **GROUND WATER LEVELS:**

DRILLING METHOD Hand Auger Boring ▽ **DEPTH TO GROUNDWATER AT TIME OF DRILLING** 5.0 ft

LOGGED BY J. Governale **CHECKED BY** J. Vickers **ESTIMATED SEASONAL HIGH GWT** —

NOTES _____ **AFTER DRILLING** —

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT	ATTERBERG LIMITS: PLASTIC LIMIT	ATTERBERG LIMITS: PLASTICITY INDEX	FINES CONTENT (%)
0.0		Brown/Gray Slightly Silty Fine SAND (SP-SM)	AU									
2.5												
5.0	▽											
7.5		Boring Termination Depth at 8.0 feet.										

GEOTECH BH COLUMNS LA BRISA.GPJ GINT STD US LAB.GDT 2/23/21

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DOUBLE RING INFILTROMETER TEST RESULTS

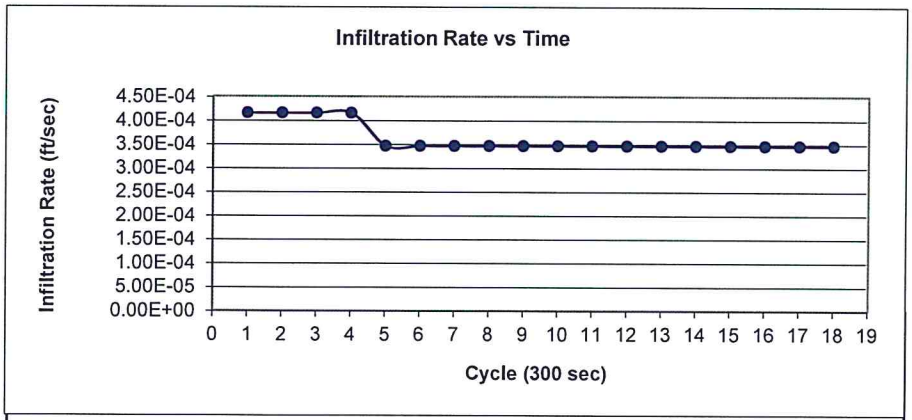
APPENDIX A

MAGNUM ENGINEERING INC
GEOTECHNICAL ENGINEERING CONSULTANTS

Double-Ring Field Infiltration Test

Test Location:	DRI-1		
Project Name:	La Brisa		
Project Location:	Parker, Florida		
Test Depth:	1 ft		
Depth to GWT:	5 ft		
Inner Ring Diameter:	12 in	0.3048 m	
Outer Ring Diameter:	24 in	0.6096 m	
Pre-Saturation	30 min		
Area Outer Ring:	3.1416 ft^2	0.00202683 m^2	
Area Inner Ring:	0.7854 ft^2	0.00050671 m^2	
Net Outer Ring Area:	2.3562 ft^2	0.00152013 m^2	

	Inner Ring		
Cycle	ElapTime (sec)	Vol Used (in^3)	Infiltration Rate (ft/sec)
1	300	169	4.15E-04
2	300	169	4.15E-04
3	300	169	4.15E-04
4	300	169	4.15E-04
5	300	141	3.46E-04
6	300	141	3.46E-04
7	300	141	3.46E-04
8	300	141	3.46E-04
9	300	141	3.46E-04
10	300	141	3.46E-04
11	300	141	3.46E-04
12	300	141	3.46E-04
13	300	141	3.46E-04
14	300	141	3.46E-04
15	300	141	3.46E-04
16	300	141	3.46E-04
17	300	141	3.46E-04
18	300	141	3.46E-04
Results	Sustained Rate	147	3.62E-04



Infiltration Rate: **1.06E-02 cm/sec** **15.0 in/hr**

FLORIDA DEPARTMENT OF
Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

SELF-CERTIFICATION FOR A STORMWATER MANAGEMENT SYSTEM IN UPLANDS SERVING LESS THAN 10 ACRES OF TOTAL PROJECT AREA AND LESS THAN 2 ACRES OF IMPERVIOUS SURFACES

Owner(s)/Permittee(s):	Rudra P, Inc.
File No:	0432678001EG
File Name:	REBUILD OF EXISTING HOTEL
Site Address:	5711 tyndall parkway Panama City FL - 32401
County:	Bay
Latitude:	30° 7' 15.1497"
Longitude:	-85° 35' 33.6638"
Total Project Area:	1.88
Total Impervious Surface Area:	1.57
Approximate Date of Commencement of Construction:	03/20/2023
Registered Florida Professional:	Robert Carroll
License No.:	57988
Company:	McNeil Carroll Engineering, Inc.

Date: March 14, 2023

Robert Carroll certified through the Department's Enterprise Self-Service Application portal that the project described above was designed by the above-named Florida registered professional to meet the following requirements:

(a)The total project area involves less than 10 acres and less than 2 acres of impervious surface;
(b)Activities will not impact wetlands or other surface waters;
(c)Activities are not conducted in, on, or over wetlands or other surface waters;
(d)Drainage facilities will not include pipes having diameters greater than 24 inches, or the hydraulic equivalent, and will not use pumps in any manner;
(e)The project is not part of a larger common plan, development, or sale; and
(f)The project does not:
1.Cause adverse water quantity or flooding impacts to receiving water and adjacent lands;

2.Cause adverse impacts to existing surface water storage and conveyance capabilities;
3.Cause a violation of state water quality standards; or
4.Cause an adverse impact to the maintenance of surface or ground water levels or surface water flows established pursuant to s. 373.042 or a work of the district established pursuant to s. 373.086, F.S.

This certification was submitted before initiation of construction of the above project. The system is designed, and will be operated and maintained in accordance with applicable rules adopted pursuant to part IV of chapter 373, F.S. There is a rebuttable presumption that the discharge from such system will comply with state water quality standards.Therefore, construction, alteration, and maintenance of the stormwater management system serving this project is authorized in accordance with s.403.814(12), F.S.

In accordance with s. 373.416(2), F.S., if ownership of the property or the stormwater management system is sold or transferred to another party, continued operation of the system is authorized only if notice is provided to the Department within 30 days of the sale or transfer.This notice can be submitted to:

FDEP Northwest District
160 Governmental Center
Pensacola, FL32502

This certification was submitted along with the following electronic documents:

File Description
civil plans
drainage report

If you have submitted this certification as a Florida Registered Professional, you may wish to sign and seal this certification, and return a copy to the Department, in accordance with your professional practice act requirements under Florida Statutes.

I, Robert Carroll, License No. 57988, do hereby certify that the above information is true and accurate, based upon my knowledge, information and belief. In the space below, affix signature, date, seal, company name, address and certificate of authorization (if applicable).

This sealed certification may be submitted to the Department, either electronically (as an attachment in Adobe PDF or other secure, digital format) at NWD_ERP_Applications@dep.state.fl.us, or as a hardcopy, at the postal address below:

FDEP Northwest District
160 Governmental Center
Pensacola, FL32502

TRAFFIC CONCURRENCY REPORT

for

LA BRISA INN
Motel Redevelopment
City of Parker, Florida

The proposed development is to reconstruct an existing 94 room motel that sustained substantial damage during Hurricane Michael in the City of Parker, Florida. The parcel is approximately 1.89 acres and the proposed development shall consist of reconstructing the existing buildings without adding any additional units that were originally built in the early 1990's..

The projected number of trips generated by the proposed development is determined by the standard trip generation rates and equations from the Institute for Transportation Engineers (ITE) Trip Generation Manual, Eleventh Edition. Per the attached Bay County Concurrency Management System, SR30A (road segment id 99) is a 4 lane principal arterial divided roadway with a Level of Service (LOS) B with more than 17,000 vpd capacity. It is not anticipated that reconstruction of this development will generate any new trips since the number of rooms remains the same.

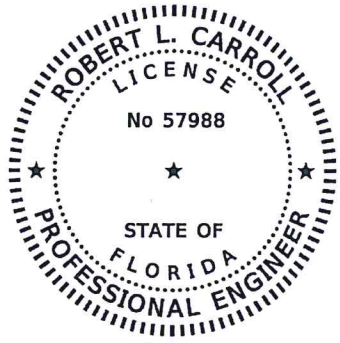
Trip Generation

The traffic demand from this project was derived from the ITE Trip Generation Manual, 11th Edition. Data in this report is presented in terms of PM Peak-Hour as well as Daily Volumes.

Description: Motel
ITE Code: 320 (Page: 568)
Unit Designation: Rooms
Expected Units: 94
Daily Trips: 311
PM Peak Trips: 39

55% Enter PM Peak = 21 vph entering project
45% Exit PM Peak = 18 vph exiting project

Total New Trips = 0 vehicles / day and 0 pm peak hour



Robert Carroll, P.E.
Fla. Reg. No. 57988
March 14, 2023

BAY COUNTY CONCURRENCY MANAGEMENT SYSTEM - STATE ROADS

ROAD	STATE ROAD AND SEGMENT	Road Segment ID	FUNC CLASS	NO. LNS	FACILITY TYPE	LOS AREA	# OF SIG	SEG. LTH	SIG/ MILE	LOS (STD) MAX VOL	COUNT STA #	2018 AADT	AVG	CURRENT LOS	AVAILABLE CAPACITY (unreal trips not included)	5% of capacity at adopted LOS AADT	8% of capacity at adopted LOS AADT	110% Maximum Volume at Adopted LOS	Trips Added to AADT	New AADT	New LOS	De minimus Impact allowed
SR 20																						
SR 20 (Segment is on the Intrastate System)	Washington Co. Line to SR 77	71	Principal Arterial	2	Undivided	Trans.	1	7.88	0.127	(C) 14,100	249	3,800		B	10,300	155	776	15,510		3,800	B	Yes
SR 20 (Segment is on the Intrastate System)	SR 77 to US 231	72	Principal Arterial	2	Undivided	Trans.	1	15.73	0.064	(C) 14,100	1927	2,621		B	11,479	155	776	15,510	39	2,660	B	Yes
SR 20	US 231 to Calhoun Co. Line	73	Principal Arterial	2	Undivided	Trans.	0	2.45	0	(C) 14,100	1	5,000		B	9,100	155	776	15,510		5,000	B	Yes
SR 22																						
SR 22 - 3rd St	East Ave to Bus 98	74	Urban Collector	2	Undivided	Urbanized	1	0.48	2.083	(D) 15,200	1602	3,300		C	11,900	167	836	16,720		3,300	C	Yes
SR 22 - 3rd St	Bus 98 to Transmitter Road/CR 2327	75	Minor Arterial	2	Undivided	Urbanized	1	0.56	1.786	(D) 16,500	5016	11,000		C	5,500	182	908	18,150		11,000	C	Yes
SR 22	Transmitter Rd to Tyndall Pkwy	76	Minor Arterial	2	Undivided	Urbanized	2	1	2.0	(D) 15,200	5192 1601	10,000 11,300	10,650	D	15,200	167	836	16,720		10,650	D	Yes
SR 22	Tyndall Pkwy to Star Ave	77	Minor Arterial	2	Undivided	Urbanized	2	1.51	1.32	(D) 16,500	5189 5195	15,000 19,000	17,000	F	(500)	182	908	18,150	2,099	19,099	F	No
SR 22 (used by Co.)	Star Ave to CR 2297	78	Minor Arterial	2	Undivided	Urbanized	0	4.06	0	(D) 16,500	1625	7,800		B	8,700	182	908	18,150	3,115	10,915	C	Yes
SR 22 (used by Co.)	CR 2297 to UB	79	Minor Arterial	2	Undivided	Urbanized	0	0.52	0	(D) 16,500	260	5,000		B	11,500	182	908	18,150	461	5,461	B	Yes
SR 22 (used in State CMS)	Star Ave to UB	80	Minor Arterial	2	Undivided	Trans.	0	4.42	0	(C) 14,100	260	5,000		B	9,100	155	776	15,510	2,614	7,614	B	Yes
SR 22	UB to Gulf Co Ln	81	Minor Arterial	2	Undivided	Trans.	0	6.2	0	(C) 14,100	260	5,000		B	9,100	155	776	15,510	461	5,461	B	Yes
SR 30A (US 98)																						
SR 30A (US 98)	Walton Co Ln to Phillips Inlet (west approach)	82	Principal Arterial	4	Divided	Urbanized	0	0.85	0	(D) 64,300	284	26,000		B	38,300	707	3,537	70,730	42	26,042	B	Yes
SR 30A (US 98)	Phillips Inlet (west approach) to Front Beach Rd	83	Principal Arterial	4	Divided	Urbanized	1	0.71	1.408	(D) 36,700	284	26,000		B	10,700	404	2,019	40,370	1,212	27,212	B	Yes
SR 30A (US 98)	PCB Parkway- Front Beach Rd to Wisteria Ln	84	Principal Arterial	4	Divided	Urbanized	0	2.3	0	(D) 36,700	216	27,500		B	9,200	404	2,019	40,370	4,029	31,529	C	Yes
SR 30A (US 98)	Wisteria Ln to Cobb Rd	85	Principal Arterial	4	Divided	Urbanized	0	2.5	0	(D) 36,700	273	30,500		C	6,200	404	2,019	40,370	445	30,945	C	Yes
SR 30A (US 98)	Cobb Rd to SR 79 (Future Intersection of Sunnyside Beach)	86	Principal Arterial	6	Divided	Urbanized	1	0.95	1.053	(D) 55,300	276	39,500		B	15,800	608	3,042	60,830		39,500	B	Yes
SR 30A (US 98)	SR 79 to Mandy Ln	87	Principal Arterial	6	Divided	Urbanized	0	0.7	0	(D) 55,300	275	46,000		C	9,300	608	3,042	60,830		46,000	C	Yes
SR 30A (US 98)	Mandy Ln to Beckrich Rd	88	Principal Arterial	4	Divided	Urbanized	5	4.5	1.111	(D) 36,700	277	51,000		F	(14,300)	404	2,019	40,370	54	51,054	F	No
SR 30A (US 98)	Beckrich Rd. to Flyover (west approach)	89	Principal Arterial	4	Divided	Urbanized	1	2.93	0.341	(D) 36,700	203	39,500		F	(7,200)	404	2,019	40,370	86	39,586	F	Yes
SR 30A (US 98)	Flyover (WA) to Hathaway Bridge (WA)	90	Principal Arterial	6	Divided	Urbanized	0	0.71	0	(D) 55,300	100	45,500		C	9,800	608	3,042	60,830		45,500	C	Yes
SR 30A (US 98)	Hathaway Bridge (WA) to 23rd St	91	Principal Arterial	6	Divided	Urbanized	2	1.39	1.439	(D) 55,300	5221 1609	68,000		B	(12,700)	608	3,042	60,830		0	B	Yes
SR 30A (US 98)	23rd St to Beck Ave	92	Principal Arterial	4	Divided	Urbanized	2	1.67	1.198	(D) 36,700	5082	39,500		F	(7,200)	404	2,019	40,370		39,500	F	Yes
SR 30A (US 98)	Beck Ave to Lisenby Ave	93	Principal Arterial	4	Divided	Urbanized	2	1.13	1.77	(D) 36,700	5043 5204	39,500 33,000	36,250	D	450	404	2,019	40,370		36,250	D	Yes
SR 30A (US 98)	Lisenby Ave to US 231/Harrison Ave	94	Principal Arterial	4	Divided	Urbanized	4	1.41	2.837	(D) 33,200	5142 1615 5131	36,000 33,000 32,500	33,833	E	(455)	365	1,826	36,320		33,833	E	Yes
SR 30A (US 98)	US 231/Harrison Ave to SR 77	95	Principal Arterial	4	Divided	Urbanized	1	0.6	1.667	(D) 36,700	5040	22,500		B	14,200	404	2,019	40,370		22,500	B	Yes
SR 30A (US 98)	SR 77 to Transmitter Rd	96	Principal Arterial	4	Divided	Urbanized	3	2.54	1.181	(D) 36,700	1620	27,500		B	9,200	404	2,019	40,370	561	28,061	B	Yes
SR 30A (US 98)	Transmitter Rd. to Wewa Highway/SR 22	97	Principal Arterial	4	Divided	Urbanized	2	2.33	0.858	(D) 36,700	5161 5193	35,000 40,000	37,500	F	(500)	404	2,019	40,370		37,500	F	Yes
SR 30A (US 98)	SR 22 to Boat Race Rd.	98	Principal Arterial	4	Divided	Urbanized	3	1.51	1.987	(D) 36,700	5194	31,000		C	5,700	404	2,019	40,370		31,000	C	Yes
SR 30A (US 98)	Boat Race Rd. to Du Pont Bridge (NA)	99	Principal Arterial	4	Divided	Urbanized	2	1.92	1.042	(D) 36,700	5181 5182	19,300		B	17,400	404	2,019	40,370		0	B	Yes
SR 30A (US 98)	Du Pont Bridge (NA) to Main Gate Tyndall AFB	100	Principal Arterial	4	Divided	Urbanized	2	2.22	0.901	(D) 36,700	1624	19,600		B	17,100	404	2,019	40,370		19,600	B	Yes
SR 30A (US 98)	Main Gate Tyndall AFB to Gulf Co Ln	101	Principal Arterial	2	Undivided	Trans.	2	16.69	0.12	(C) 14,100	214	6,700		B	7,400	155	776	15,510		6,700	B	Yes

BAY COUNTY CONCURRENCY M.

ROAD	STATE ROAD AND SEGMENT	Road Segment ID	2018 PEAK HOUR VOLUME	PEAK DIRECTION	"K100" Factor	"D100" Factor	"T" Factor	LOS (STD) MAX PEAK VOL	2018 Peak Volume	CURRENT LOS	AVAILABLE CAPACITY (project # cannot included)	1% of capacity at adopted LOS Peak	5% of capacity at adopted LOS Peak	110% Maximum Volume at Adopted LOS	Trips Added Peak Hour	New Peak Volume	New LOS	De minimus Impact allowed	AADT Service Volumes						Peak Hour 2-way Service Volumes					
																			A	B	C	D	E	F	A	B	C	D	E	F
SR 20																														
SR 20 (Segment is on the Intrastate System)	Washington Co. Line to SR 77	71	382	199	10.06	52	19.36	(C) 1,370	382	B	988	15	75	1,507		382	B	Yes		8,900	14,100	15,200				860	1,370	1,480			
SR 20 (Segment is on the Intrastate System)	SR 77 to US 231	72	261	155	9.95	59.38	11.42	(C) 1,370	261	B	1,109	15	75	1,507	4	265	B	Yes		8,900	14,100	15,200				860	1,370	1,480			
SR 20	US 231 to Calhoun Co. Line	73	483	251	9.66	52.00	18.22	(C) 1,370	483	B	887	15	75	1,507		483	B	Yes		8,900	14,100	15,200				860	1,370	1,480			
SR 22																														
SR 22 - 3rd St	East Ave to Bus 98	74	336	175	10.19	52.00	6.17	(D) 1,480	336	C	1,144	16	81	1,628		336	C	Yes			10,500	15,200	16,200				1,020	1,480	1,570		
SR 22 - 3rd St	Bus 98 to Transmitter Road/CR 2327	75	1,121	583	10.19	52.00	6.17	(D) 1,600	1,121	C	479	18	88	1,760		1,121	C	Yes		9,600	15,400	16,500				930	1,500	1,600			
SR 22	Transmitter Rd to Tyndall Pkwy	76	1,085	564	10.19	52.00	6.17	(D) 1,480	1,085	D	395	16	81	1,628		1,085	D	Yes			10,500	15,200	16,200				1,020	1,480	1,570		
SR 22	Tyndall Pkwy to Star Ave	77	1,732	901	10.19	52.00	6.17	(D) 1,600	1,732	F	(132)	18	88	1,760	211	1,943	F	No		9,600	15,400	16,500				930	1,500	1,600			
SR 22 (used by Co.)	Star Ave to CR 2297	78	795	413	10.19	52.00	6.56	(D) 1,600	795	B	805	18	88	1,760	313	1,108	C	Yes		9,600	15,400	16,500				930	1,500	1,600			
SR 22 (used by Co.)	CR 2297 to US	79	483	251	9.66	52.00	6.17	(D) 1,600	483	B	1,117	18	88	1,760	15	498	B	Yes		9,600	15,400	16,500				930	1,500	1,600			
SR 22 (used in State CMS)	Star Ave to US	80	483	251	9.66	52.00	6.17	(C) 1,370	483	B	887	15	75	1,507		180	B	Yes		8,900	14,100	15,200				860	1,370	1,480			
SR 22	US to Gulf Co Ln	81	483	251	9.66	52.00	6.17	(C) 1,370	483	B	887	15	75	1,507		483	B	Yes		8,900	14,100	15,200				860	1,370	1,480			
SR 30A (US 98)																														
SR 30A (US 98)	Walton Co Ln to Phillips Inlet (west approach)	82	2,418	1,257	9.3	52.00	6.51	(D) 6,040	2,418	B	3,622	66	332	6,644	12	2,430	B	Yes		34,200	49,800	64,200	72,800			3,220	4,660	6,040	6,860		
SR 30A (US 98)	Phillips Inlet (west approach) to Front Beach Rd	83	2,418	1,257	9.3	52.00	6.51	(D) 3,560	2,418	B	1,142	39	196	3,916	162	2,580	B	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	PCB Parkway- Front Beach Rd to Wisteria Ln	84	2,558	1,330	9.3	52.00	6.92	(D) 3,560	2,558	B	1,003	39	196	3,916	621	3,178	C	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	Wisteria Ln to Cobb Rd	85	2,837	1,475	9.3	52.00	6.34	(D) 3,560	2,837	B	724	39	196	3,916	35	2,871	C	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	Cobb Rd to SR 79 (4 lanes starts north of Summer Breeze)	86	3,674	1,910	9.3	52.00	6.34	(D) 5,360	3,674	B	1,687	59	295	5,896		3,674	B	Yes		45,000	53,700	55,300				4,370	5,200	5,360			
SR 30A (US 98)	SR 79 to Mandy Ln	87	4,278	2,225	9.3	52.00	5.59	(D) 5,360	4,278	B	1,082	59	295	5,896		4,278	B	Yes		45,000	53,700	55,300				4,370	5,200	5,360			
SR 30A (US 98)	Mandy Ln to Beckrich Rd	88	4,743	2,466	9.3	52.00	6.34	(D) 3,560	4,743	F	(1,183)	39	196	3,916	107	4,850	F	No		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	Beckrich Rd. to Flyover (west approach)	89	3,674	1,910	9.3	52.00	6.34	(D) 3,560	3,674	F	(114)	39	196	3,916	41	3,715	F	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	Flyover (WA) to Hathaway Bridge (WA)	90	4,855	2,525	10.67	52.00	3.87	(D) 5,360	4,855	C	505	59	295	5,896	(36)	4,819	C	Yes		45,000	53,700	55,300				4,370	5,200	5,360			
SR 30A (US 98)	Hathaway Bridge (WA) to 23rd St	91	0	0	9.3	52.00	3.87	(D) 5,360	0	B	5,360	59	295	5,896	(77)	(77)	A	Yes		45,000	53,700	55,300				4,370	5,200	5,360			
SR 30A (US 98)	23rd St to Beck Ave	92	3,674	1,910	9.3	52.00	3.87	(D) 3,560	3,674	F	(114)	39	196	3,916		3,674	F	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	Beck Ave to Lisenby Ave	93	3,371	1,753	9.3	52.00	4.06	(D) 3,560	3,371	C	189	39	196	3,916		3,371	C	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	Lisenby Ave to US 231/Harrison Ave	94	3,448	1,793	10.19	52.00	4.26	(D) 3,400	3,448	F	(48)	37	187	3,740		3,448	F	Yes			25,000	33,200	35,100			2,420	3,220	3,400		
SR 30A (US 98)	US 231/Harrison Ave to SR 77	95	2,293	1,192	10.19	52.00	4.76	(D) 3,560	2,293	B	1,267	39	196	3,916		2,293	B	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	SR 77 to Transmitter Rd	96	2,802	1,457	10.19	52.00	4.47	(D) 3,560	2,802	B	758	39	196	3,916	55	2,857	C	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	Transmitter Rd. to Wewa Highway/SR 22	97	3,821	1,987	10.19	52.00	3.48	(D) 3,560	3,821	F	(261)	39	196	3,916		3,821	F	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	SR 22 to Boat Race Rd.	98	3,159	1,643	10.19	52.00	3.48	(D) 3,560	3,159	C	401	39	196	3,916		3,159	C	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	Boat Race Rd. to Du Pont Bridge (NA)	99	0	0	10.19	52.00	4.41	(D) 3,560	0	B	3,560	39	196	3,916		0	B	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	Du Pont Bridge (NA) to Main Gate Tyndall AFB	100	1,997	1,039	10.19	52.00	4.92	(D) 3,560	1,997	B	1,563	39	196	3,916	657	2,654	B	Yes		29,300	35,500	36,700				2,840	3,440	3,560			
SR 30A (US 98)	Main Gate Tyndall AFB to Gulf Co Ln	101	647	337	9.66	52.00	8.65	(C) 1,370	647	B	723	15	75	1,507	657	1,304	C	Yes		8,900	14,100	15,200				860	1,370	1,480			

Land Use: 320
Motel

Description

A motel is a place of lodging that provides sleeping accommodations and provides little or no meeting space and few supporting facilities. Exterior corridors accessing rooms (immediately adjacent to a parking lot) is common for a motel. Hotel (Land Use 310), all suites hotel (Land Use 311), business hotel (Land Use 312), and resort hotel (Land Use 330) are related uses.

Additional Data

Sixteen studies provided information on occupancy rates at the time the studies were conducted. The average occupancy rate for these studies was approximately 82 percent.

The technical appendices provide supporting information on time-of-day distributions for this land use. The appendices can be accessed through either the ITETripGen web app or the trip generation resource page on the ITE website (https://www.ite.org/technical-resources/topics/trip-and-parking-generation/).

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in California, Florida, Indiana, New Jersey, New York, Oregon, South Dakota, and Texas.

For all lodging uses, it is important to collect data on occupied rooms as well as total rooms in order to accurately predict trip generation characteristics for the site.

Source Numbers

172, 187, 191, 277, 295, 300, 357, 439, 443, 598, 877, 915, 1046

Motel
(320)

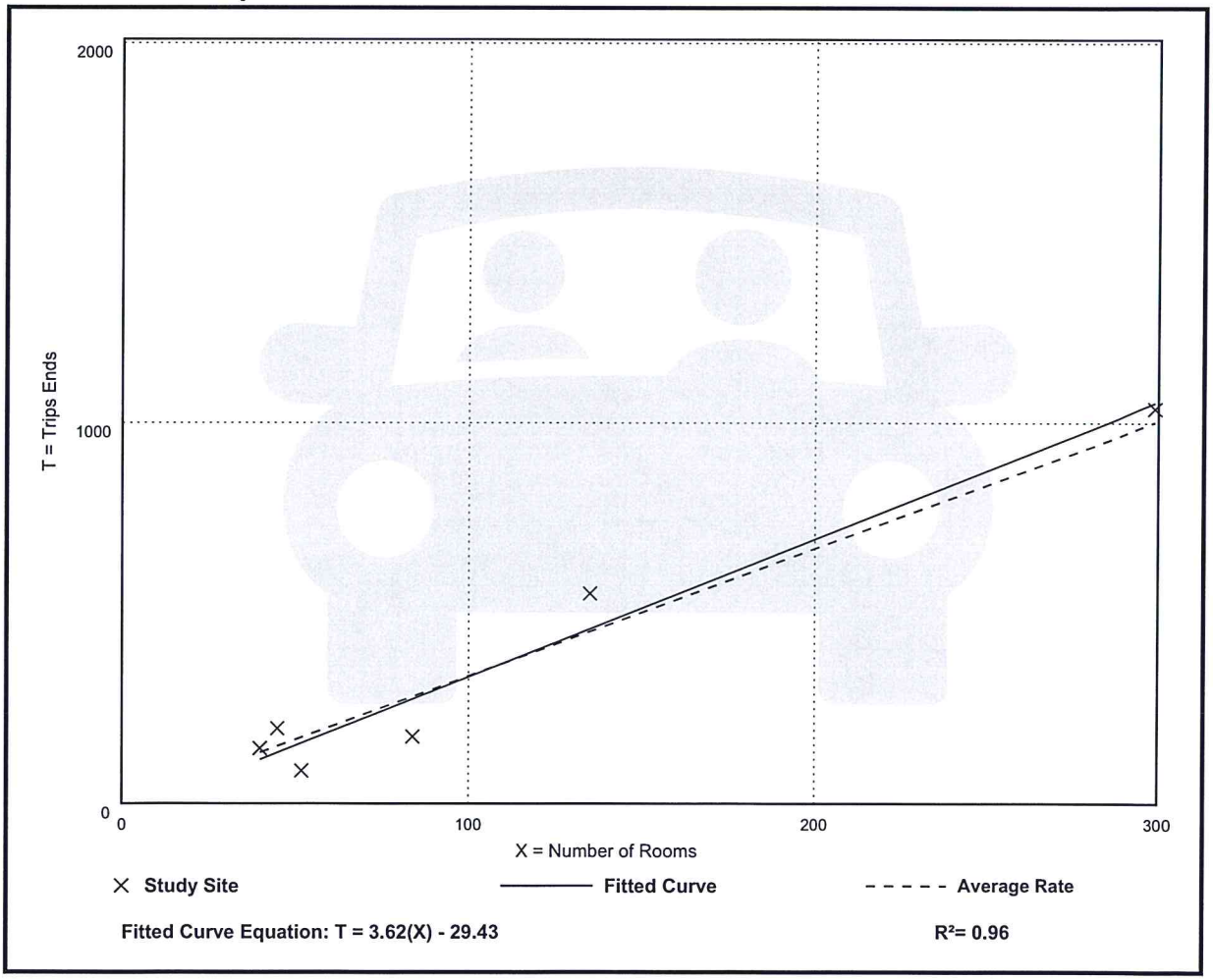
Vehicle Trip Ends vs: Rooms
On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 6
Avg. Num. of Rooms: 109
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Room

Average Rate	Range of Rates	Standard Deviation
3.35	1.65 - 4.38	0.87

Data Plot and Equation



Fitted Curve Equation: T = 3.62(X) - 29.43

R^2= 0.96

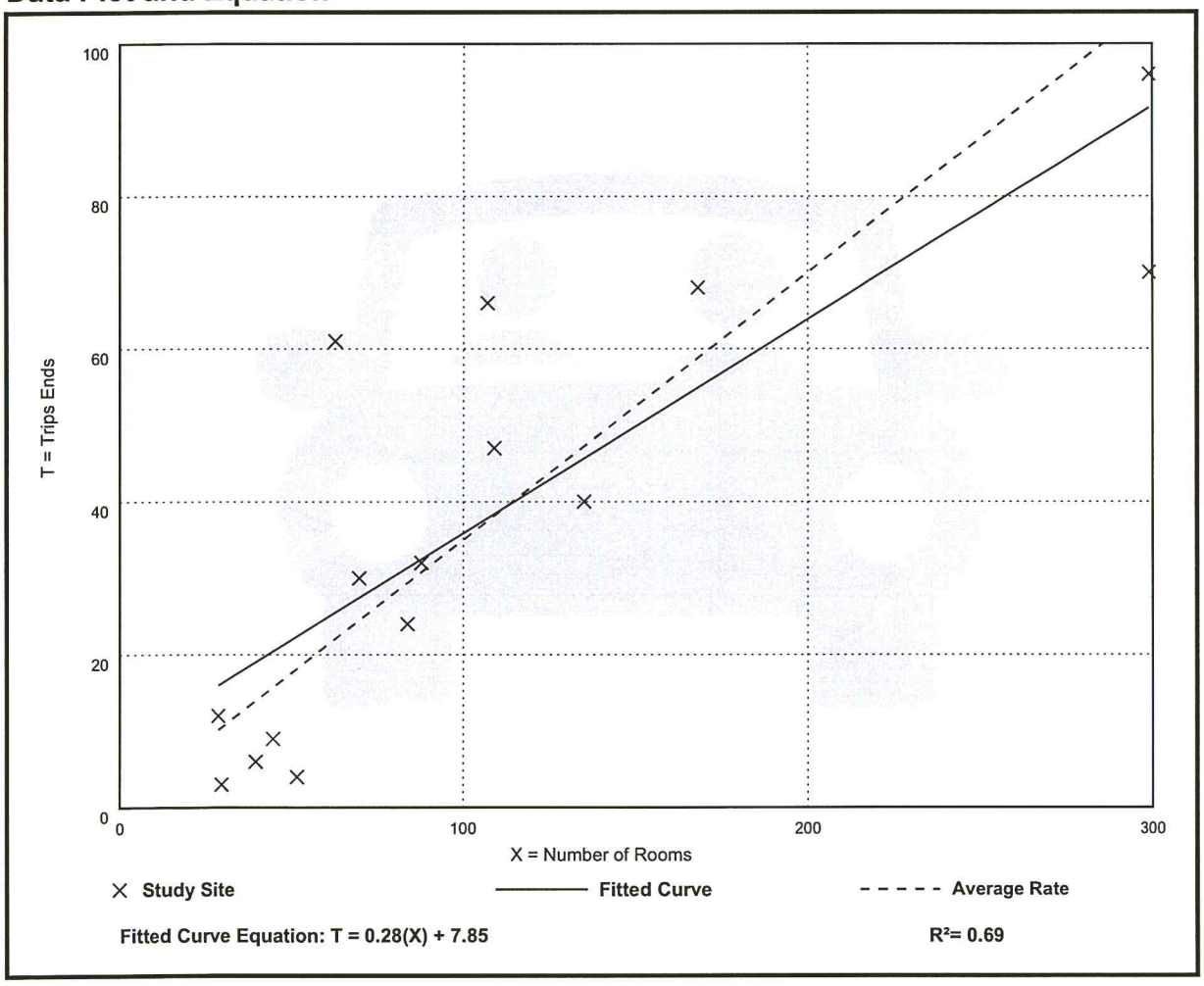
Motel
(320)

Vehicle Trip Ends vs: Rooms
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
Number of Studies: 15
Avg. Num. of Rooms: 108
Directional Distribution: 37% entering, 63% exiting

Vehicle Trip Generation per Room

Average Rate	Range of Rates	Standard Deviation
0.35	0.08 - 0.97	0.18

Data Plot and Equation



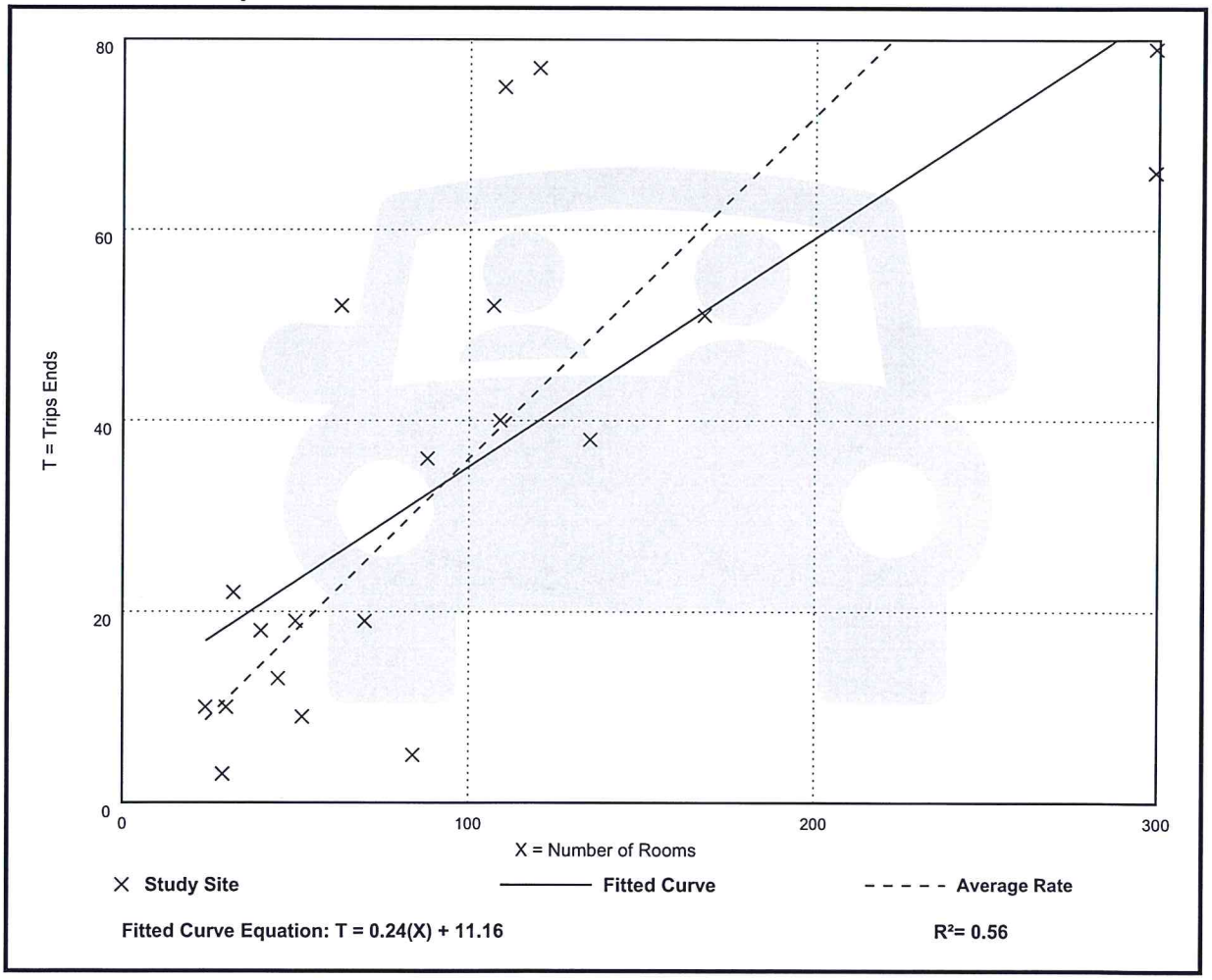
Motel
(320)

Vehicle Trip Ends vs: Rooms
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
Number of Studies: 20
Avg. Num. of Rooms: 98
Directional Distribution: 54% entering, 46% exiting

Vehicle Trip Generation per Room

Average Rate	Range of Rates	Standard Deviation
0.36	0.06 - 0.83	0.18

Data Plot and Equation



Motel
(320)

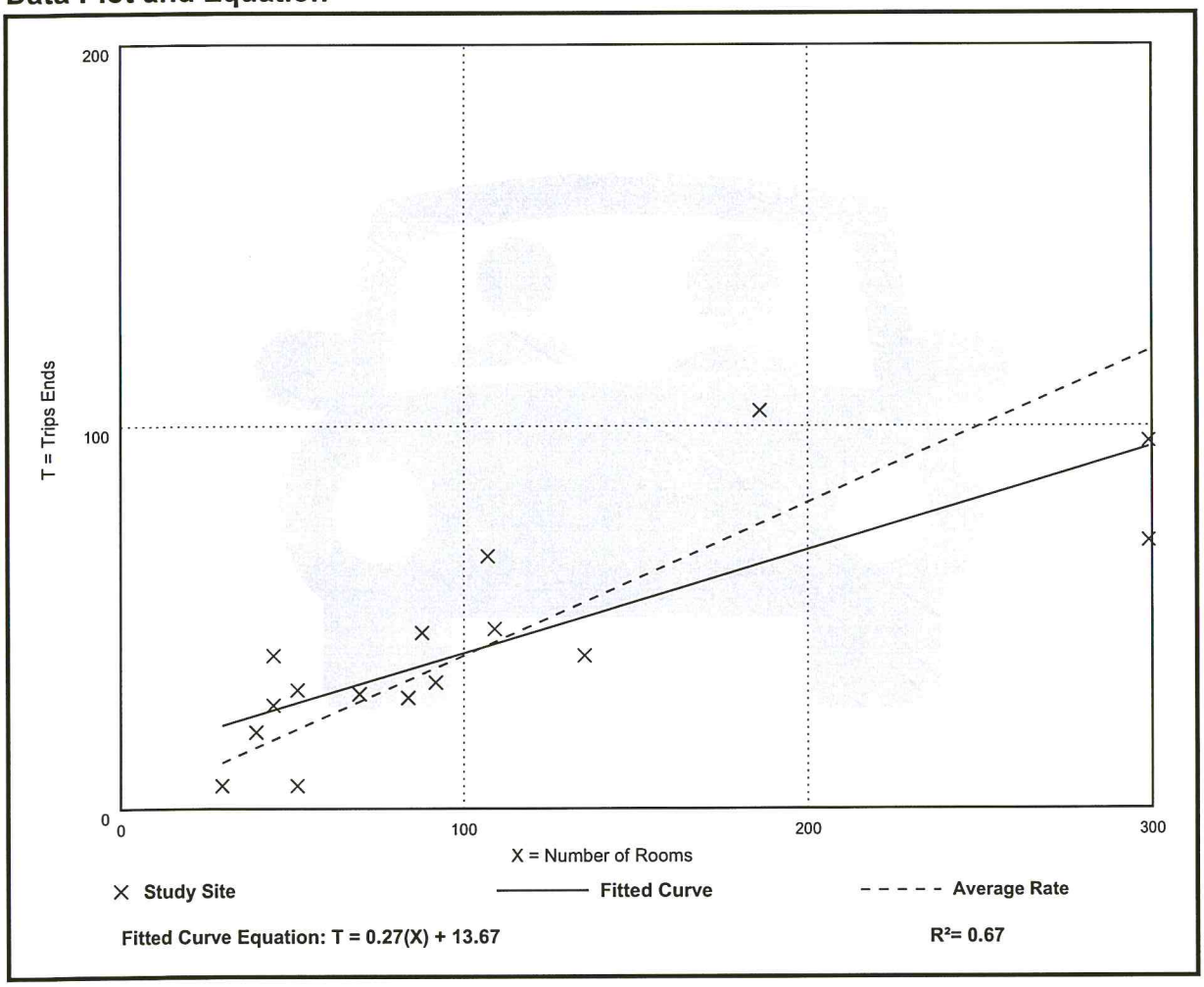
Vehicle Trip Ends vs: Rooms
On a: Weekday,
AM Peak Hour of Generator

Setting/Location: General Urban/Suburban
Number of Studies: 16
Avg. Num. of Rooms: 108
Directional Distribution: 41% entering, 59% exiting

Vehicle Trip Generation per Room

Average Rate	Range of Rates	Standard Deviation
0.40	0.12 - 0.89	0.16

Data Plot and Equation



Fitted Curve Equation: T = 0.27(X) + 13.67

R^2= 0.67

Motel
(320)

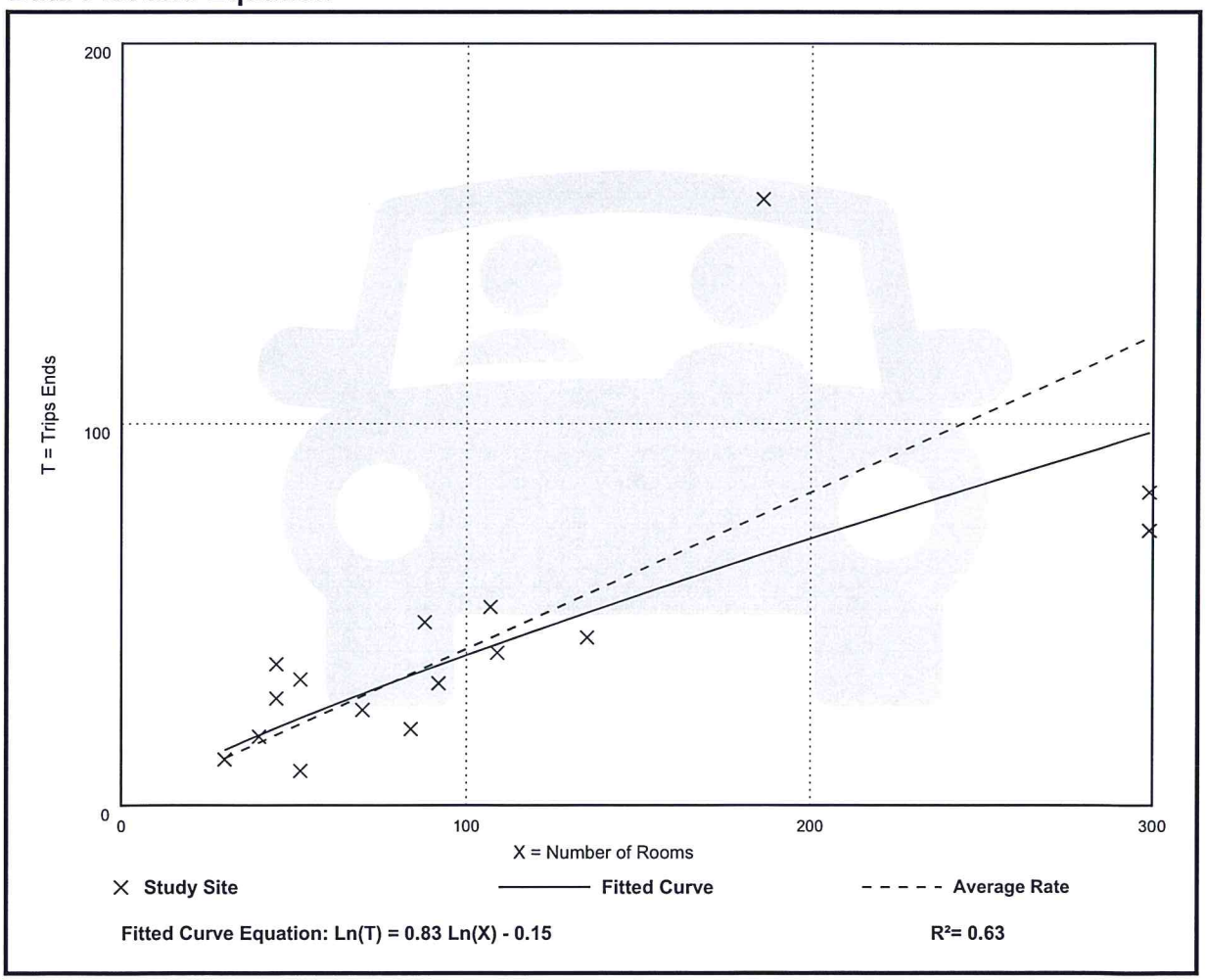
Vehicle Trip Ends vs: Rooms
On a: Weekday,
PM Peak Hour of Generator

Setting/Location: General Urban/Suburban
Number of Studies: 16
Avg. Num. of Rooms: 108
Directional Distribution: 55% entering, 45% exiting

Vehicle Trip Generation per Room

Average Rate	Range of Rates	Standard Deviation
0.41	0.17 - 0.85	0.21

Data Plot and Equation



Fitted Curve Equation: Ln(T) = 0.83 Ln(X) - 0.15

R^2= 0.63

Motel
(320)

Vehicle Trip Ends vs: Occupied Rooms
On a: Weekday

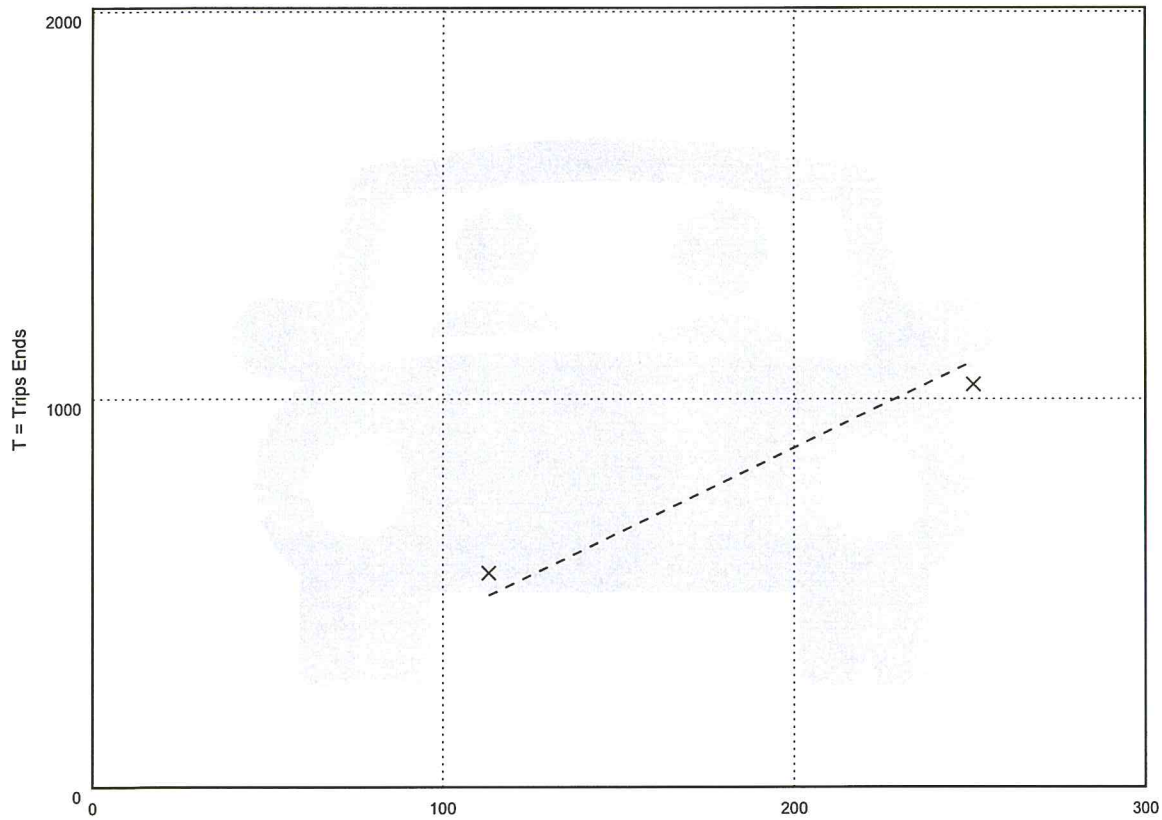
Setting/Location: General Urban/Suburban
Number of Studies: 2
Avg. Num. of Occupied Rooms: 182
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Occupied Room

Average Rate	Range of Rates	Standard Deviation
4.37	4.13 - 4.88	***

Data Plot and Equation

Caution – Small Sample Size



Fitted Curve Equation: Not Given

R^2= ***

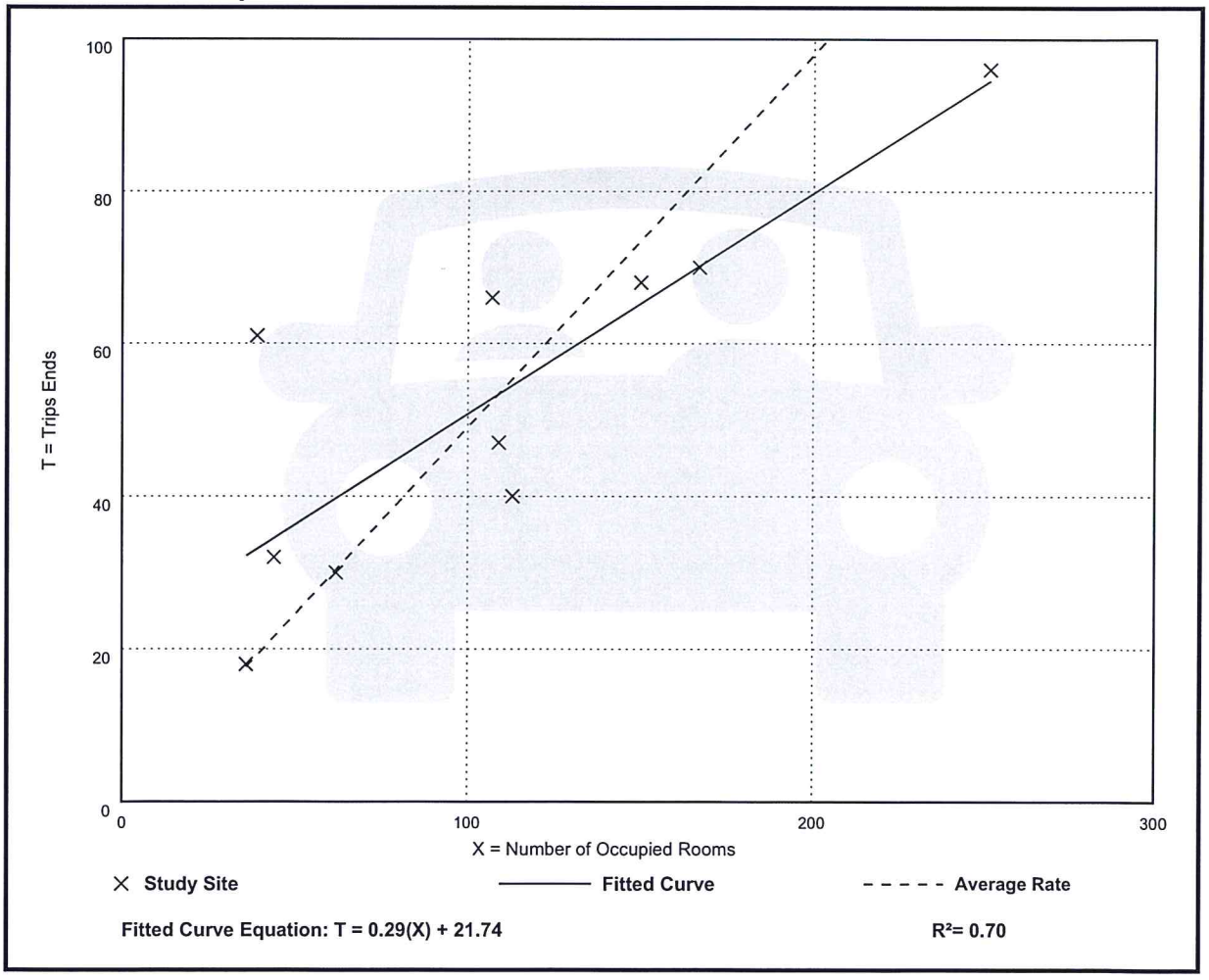
Motel
(320)

Vehicle Trip Ends vs: Occupied Rooms
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
Number of Studies: 10
Avg. Num. of Occupied Rooms: 108
Directional Distribution: 36% entering, 64% exiting

Vehicle Trip Generation per Occupied Room

Average Rate	Range of Rates	Standard Deviation
0.49	0.35 - 1.56	0.24

Data Plot and Equation



Fitted Curve Equation: T = 0.29(X) + 21.74

R^2= 0.70

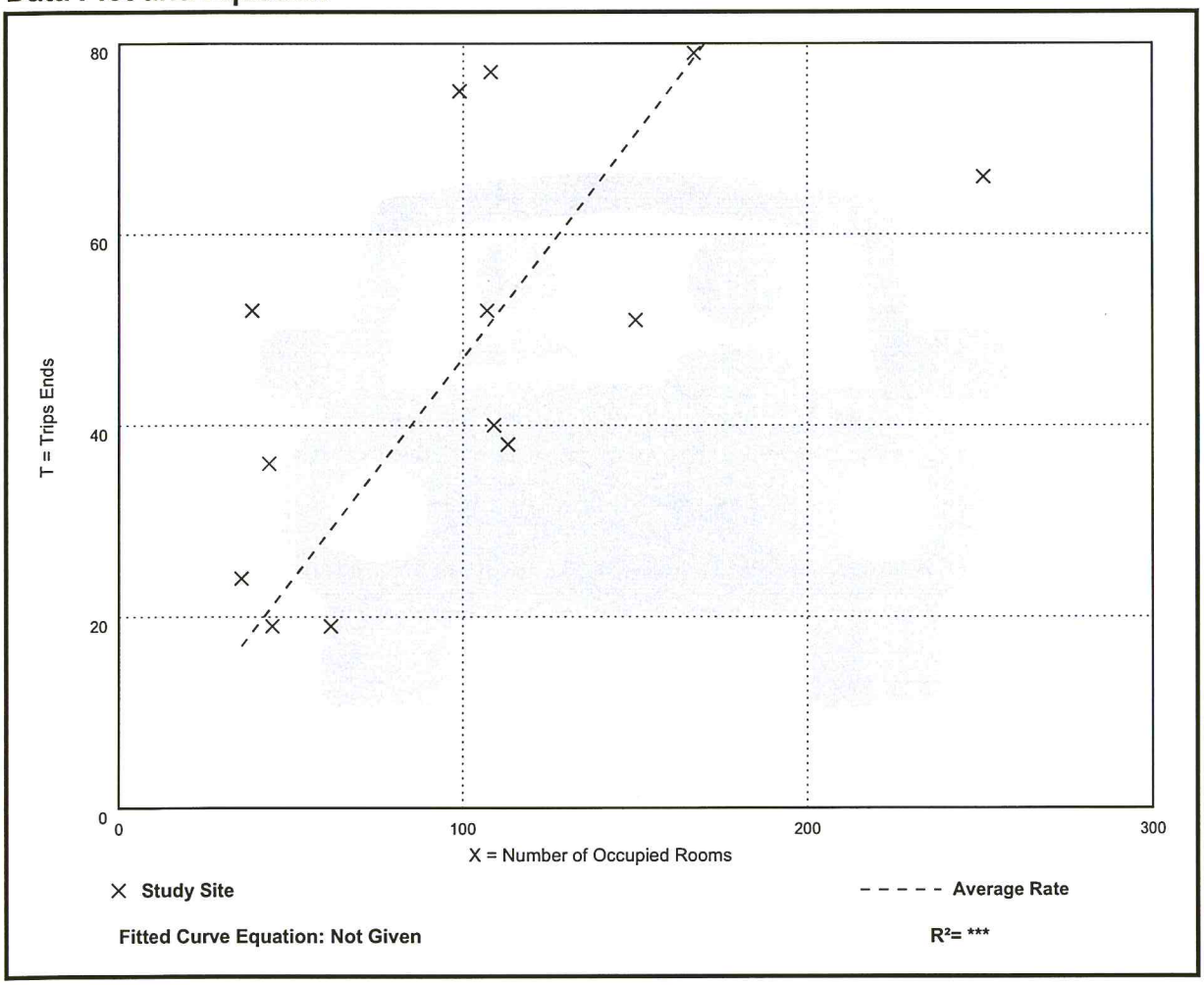
Motel
(320)

Vehicle Trip Ends vs: Occupied Rooms
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
Number of Studies: 13
Avg. Num. of Occupied Rooms: 102
Directional Distribution: 53% entering, 47% exiting

Vehicle Trip Generation per Occupied Room

Average Rate	Range of Rates	Standard Deviation
0.47	0.26 - 1.33	0.24

Data Plot and Equation



Motel
(320)

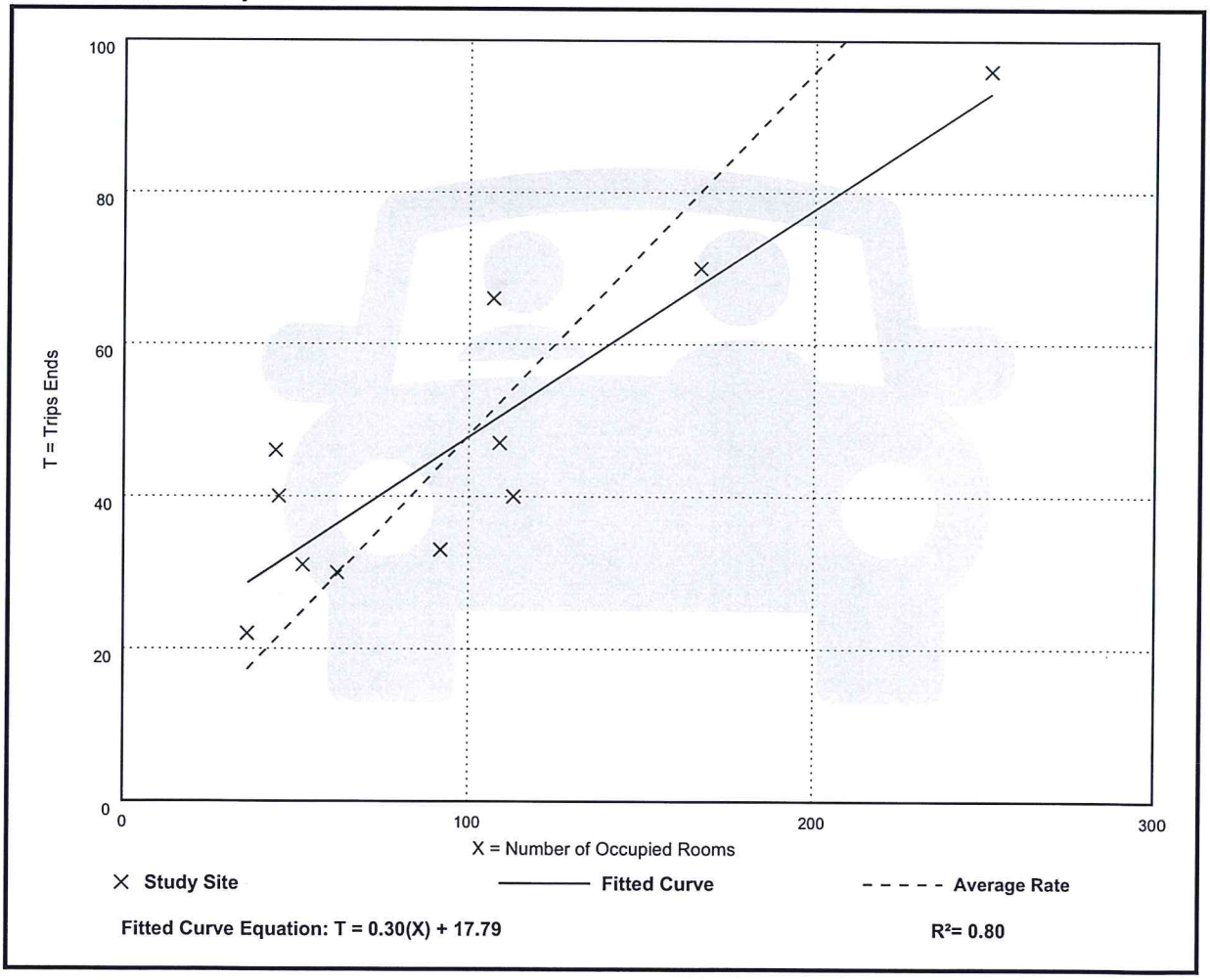
Vehicle Trip Ends vs: Occupied Rooms
On a: Weekday,
AM Peak Hour of Generator

Setting/Location: General Urban/Suburban
Number of Studies: 11
Avg. Num. of Occupied Rooms: 98
Directional Distribution: 39% entering, 61% exiting

Vehicle Trip Generation per Occupied Room

Average Rate	Range of Rates	Standard Deviation
0.48	0.35 - 1.05	0.18

Data Plot and Equation



Fitted Curve Equation: T = 0.30(X) + 17.79

R^2= 0.80

Motel
(320)

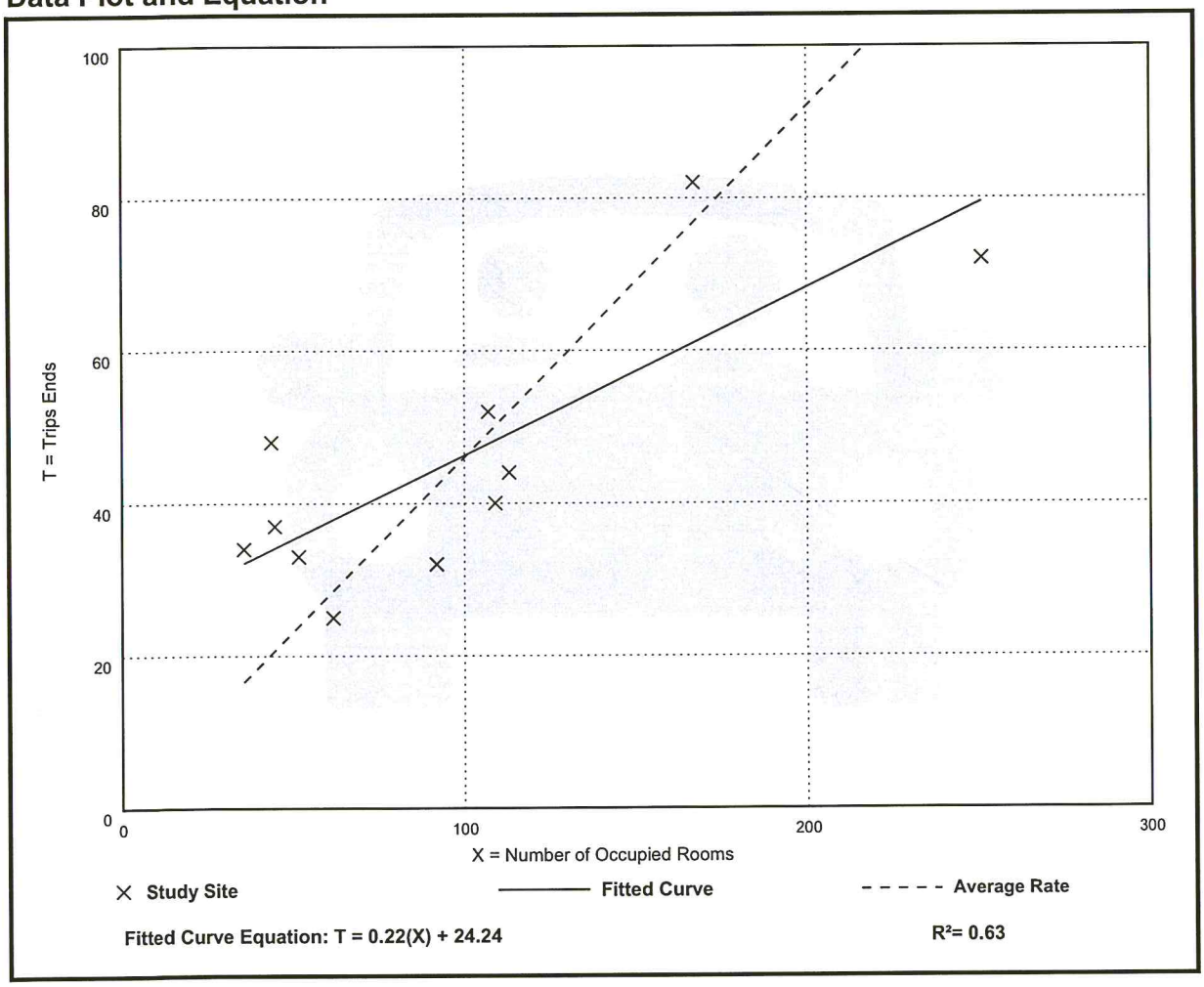
Vehicle Trip Ends vs: Occupied Rooms
On a: Weekday,
PM Peak Hour of Generator

Setting/Location: General Urban/Suburban
Number of Studies: 11
Avg. Num. of Occupied Rooms: 98
Directional Distribution: 54% entering, 46% exiting

Vehicle Trip Generation per Occupied Room

Average Rate	Range of Rates	Standard Deviation
0.46	0.29 - 1.09	0.21

Data Plot and Equation



Fitted Curve Equation: T = 0.22(X) + 24.24

R^2= 0.63

Motel
(320)

Vehicle Trip Ends vs: Occupied Rooms
On a: Saturday

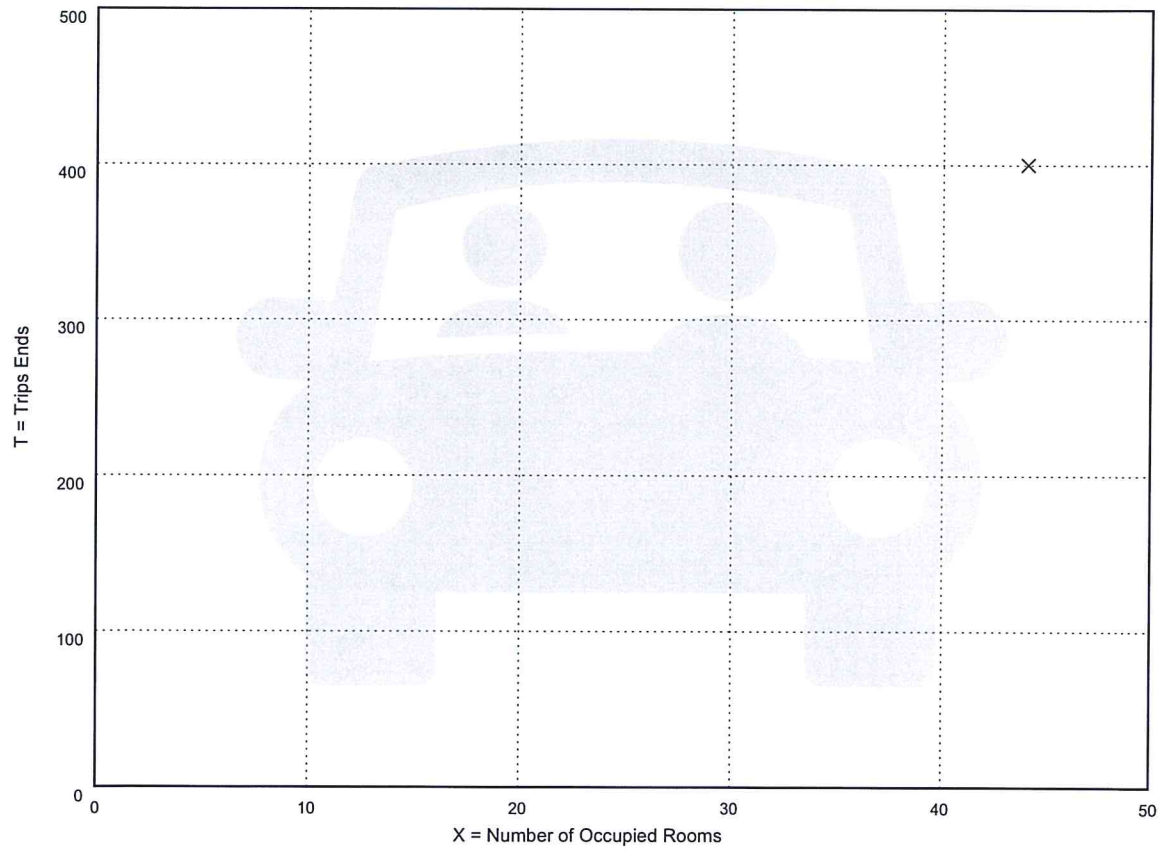
Setting/Location: General Urban/Suburban
Number of Studies: 1
Avg. Num. of Occupied Rooms: 44
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Occupied Room

Average Rate	Range of Rates	Standard Deviation
9.09	9.09 - 9.09	***

Data Plot and Equation

Caution – Small Sample Size



Fitted Curve Equation: Not Given

R^2= ***

Motel
(320)

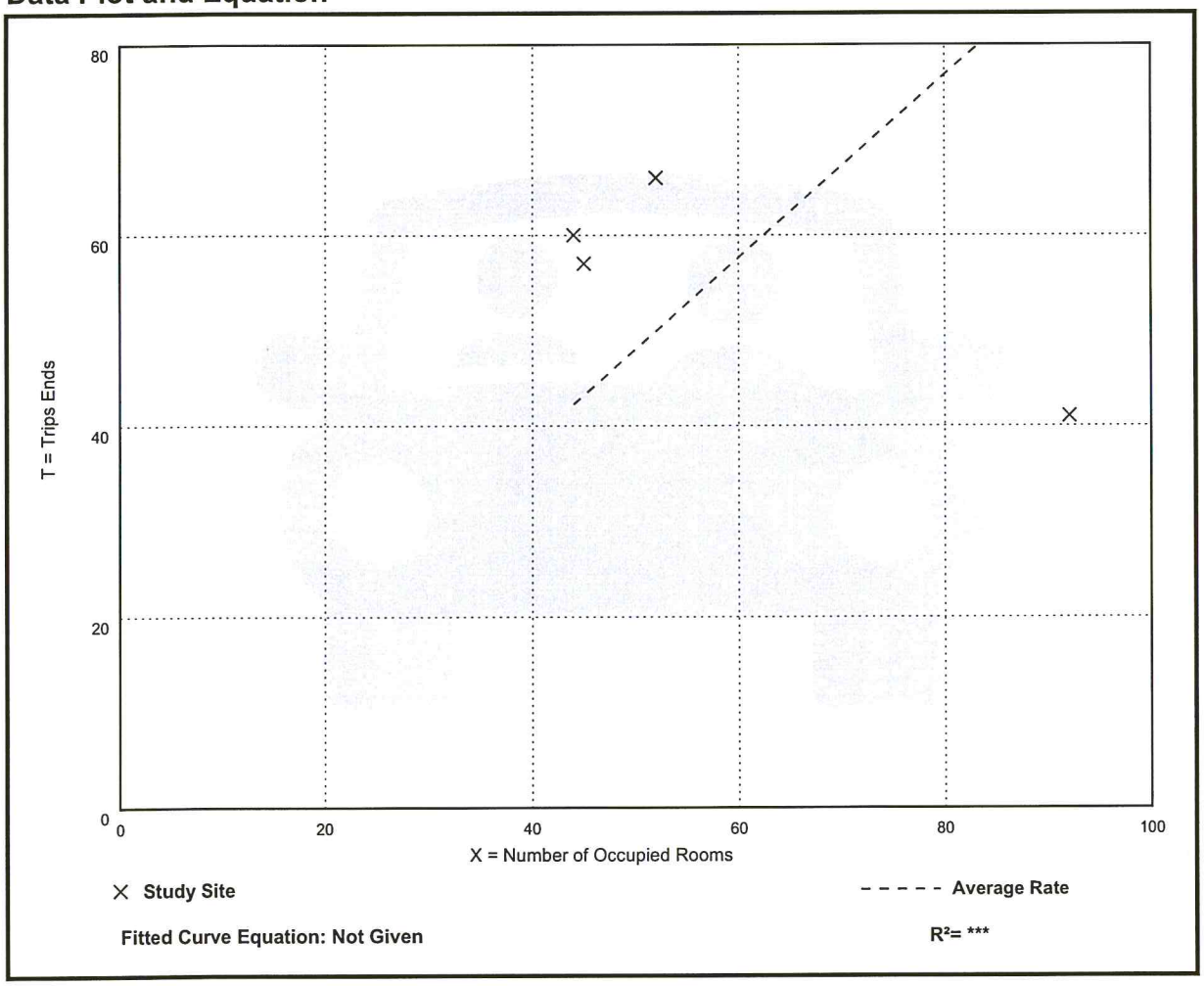
Vehicle Trip Ends vs: Occupied Rooms
On a: Saturday, Peak Hour of Generator

Setting/Location: General Urban/Suburban
Number of Studies: 4
Avg. Num. of Occupied Rooms: 58
Directional Distribution: 45% entering, 55% exiting

Vehicle Trip Generation per Occupied Room

Average Rate	Range of Rates	Standard Deviation
0.96	0.45 - 1.36	0.48

Data Plot and Equation



Motel
(320)

Vehicle Trip Ends vs: Occupied Rooms
On a: Sunday

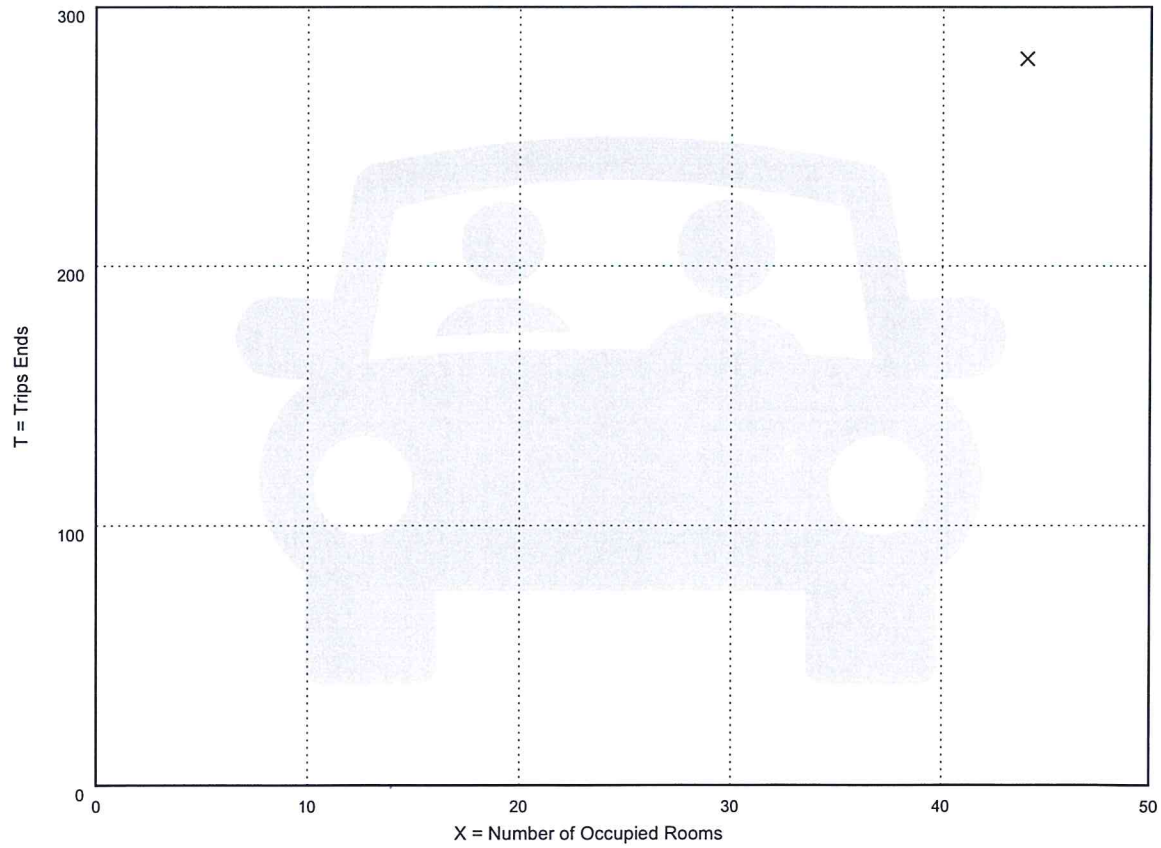
Setting/Location: General Urban/Suburban
Number of Studies: 1
Avg. Num. of Occupied Rooms: 44
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Occupied Room

Average Rate	Range of Rates	Standard Deviation
6.36	6.36 - 6.36	***

Data Plot and Equation

Caution – Small Sample Size



Fitted Curve Equation: Not Given

R^2= ***

Motel
(320)

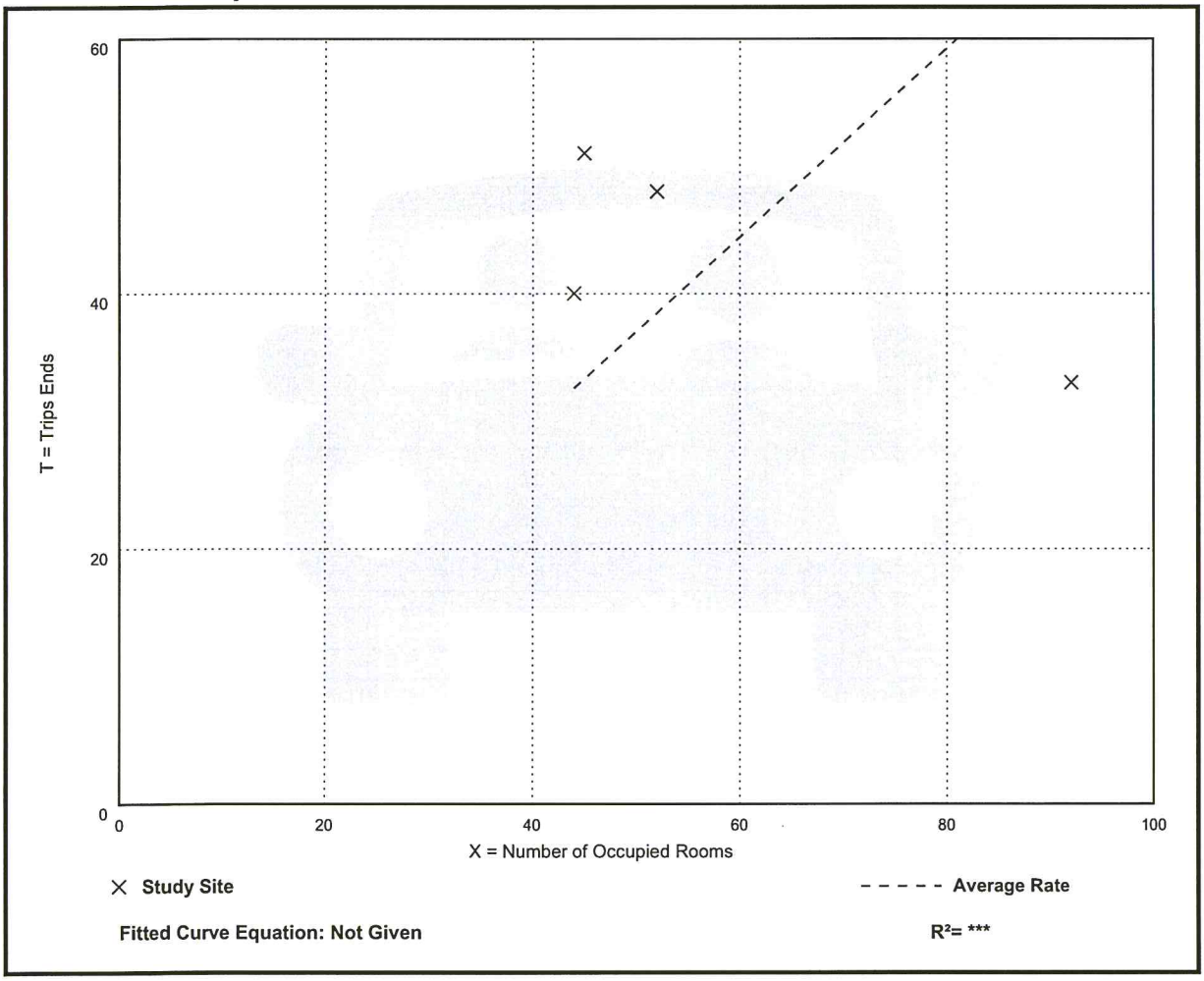
Vehicle Trip Ends vs: Occupied Rooms
On a: Sunday, Peak Hour of Generator

Setting/Location: General Urban/Suburban
Number of Studies: 4
Avg. Num. of Occupied Rooms: 58
Directional Distribution: 53% entering, 47% exiting

Vehicle Trip Generation per Occupied Room

Average Rate	Range of Rates	Standard Deviation
0.74	0.36 - 1.13	0.37

Data Plot and Equation



Motel
(320)

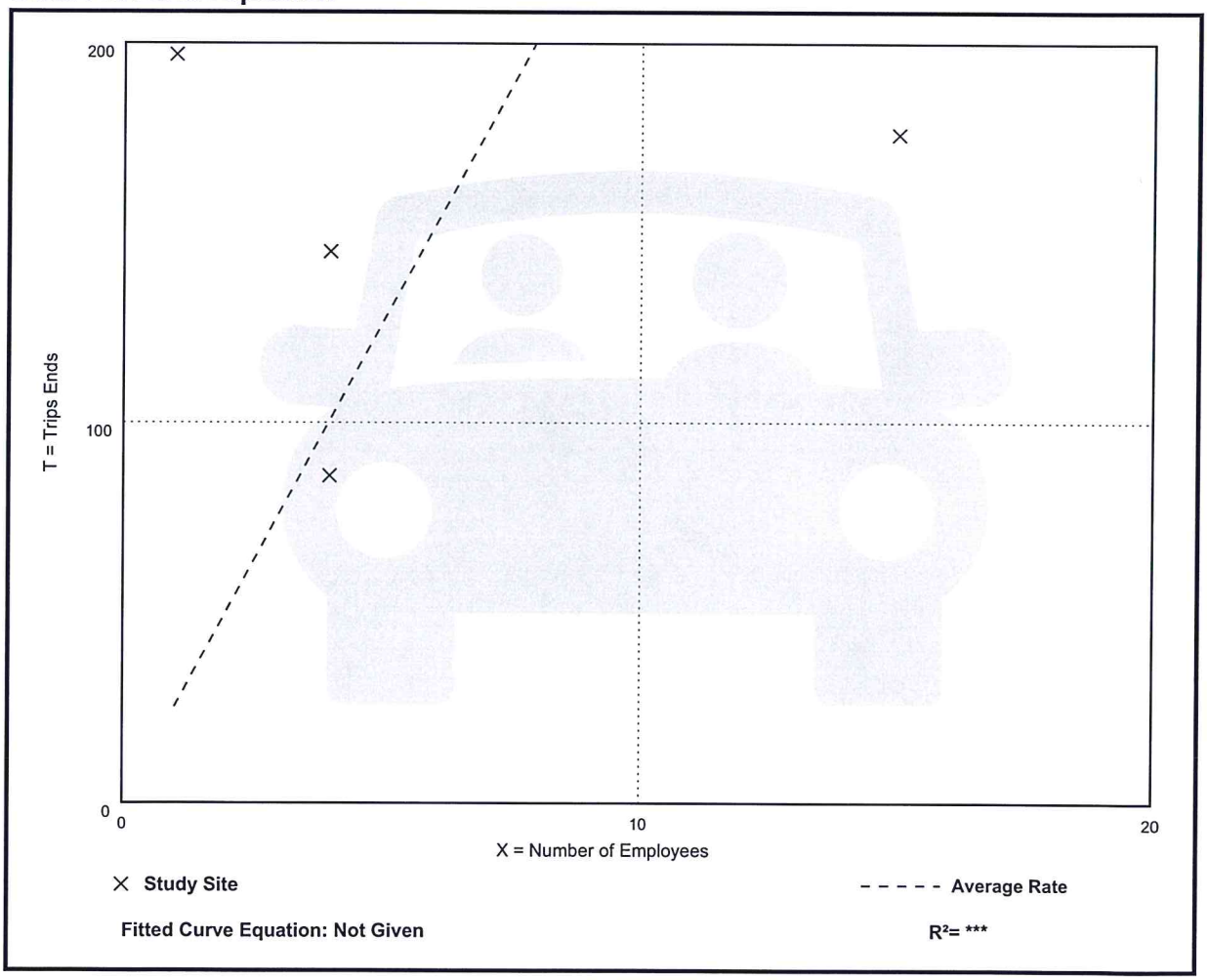
Vehicle Trip Ends vs: Employees
On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 4
Avg. Num. of Employees: 6
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
25.17	11.73 - 197.00	42.67

Data Plot and Equation



Fitted Curve Equation: Not Given

R^2= ***

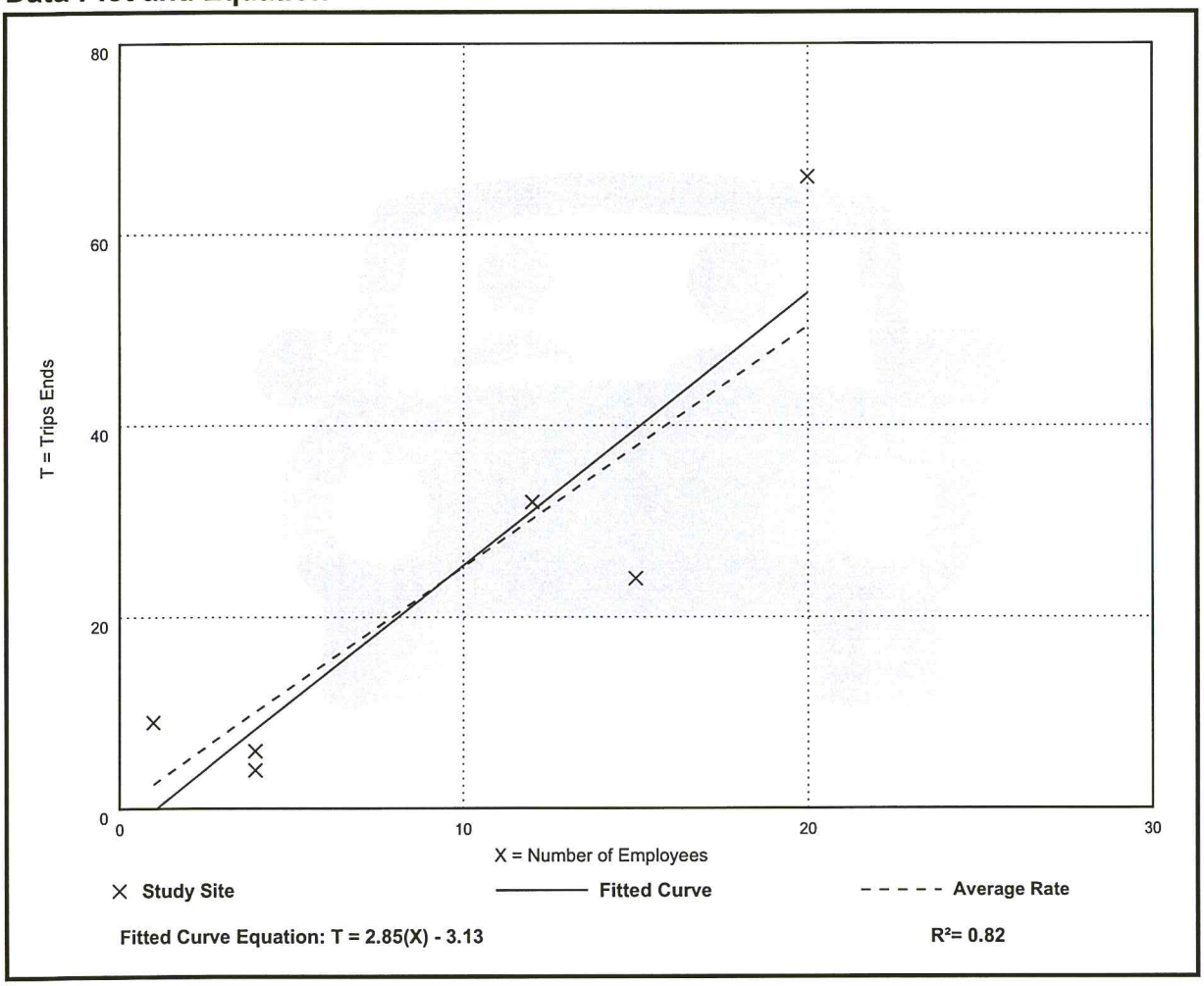
Motel
(320)

Vehicle Trip Ends vs: Employees
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
Number of Studies: 6
Avg. Num. of Employees: 9
Directional Distribution: 54% entering, 46% exiting

Vehicle Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
2.52	1.00 - 9.00	1.31

Data Plot and Equation



Fitted Curve Equation: T = 2.85(X) - 3.13

R^2= 0.82

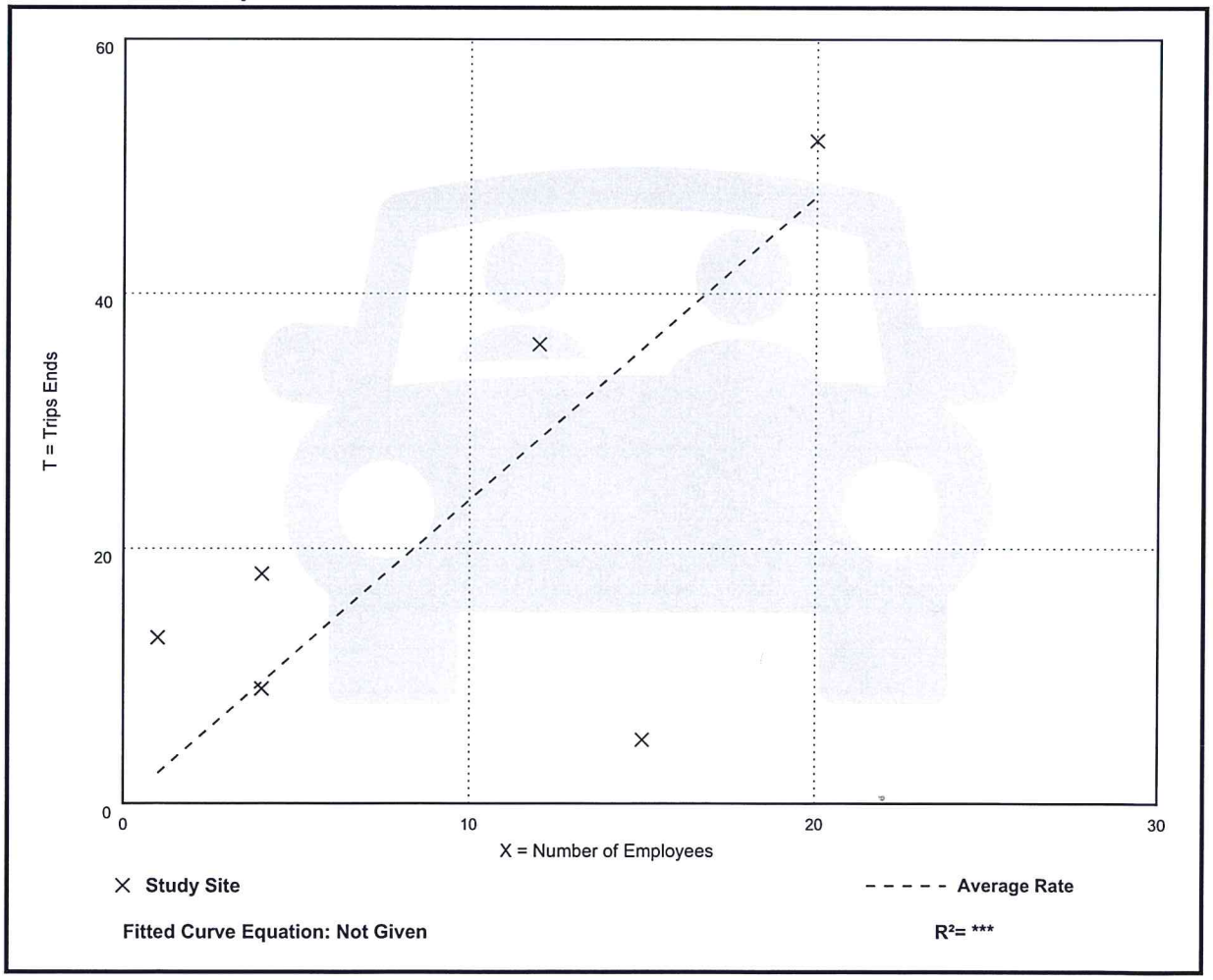
Motel
(320)

Vehicle Trip Ends vs: Employees
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
Number of Studies: 6
Avg. Num. of Employees: 9
Directional Distribution: 56% entering, 44% exiting

Vehicle Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
2.38	0.33 - 13.00	2.07

Data Plot and Equation



Motel
(320)

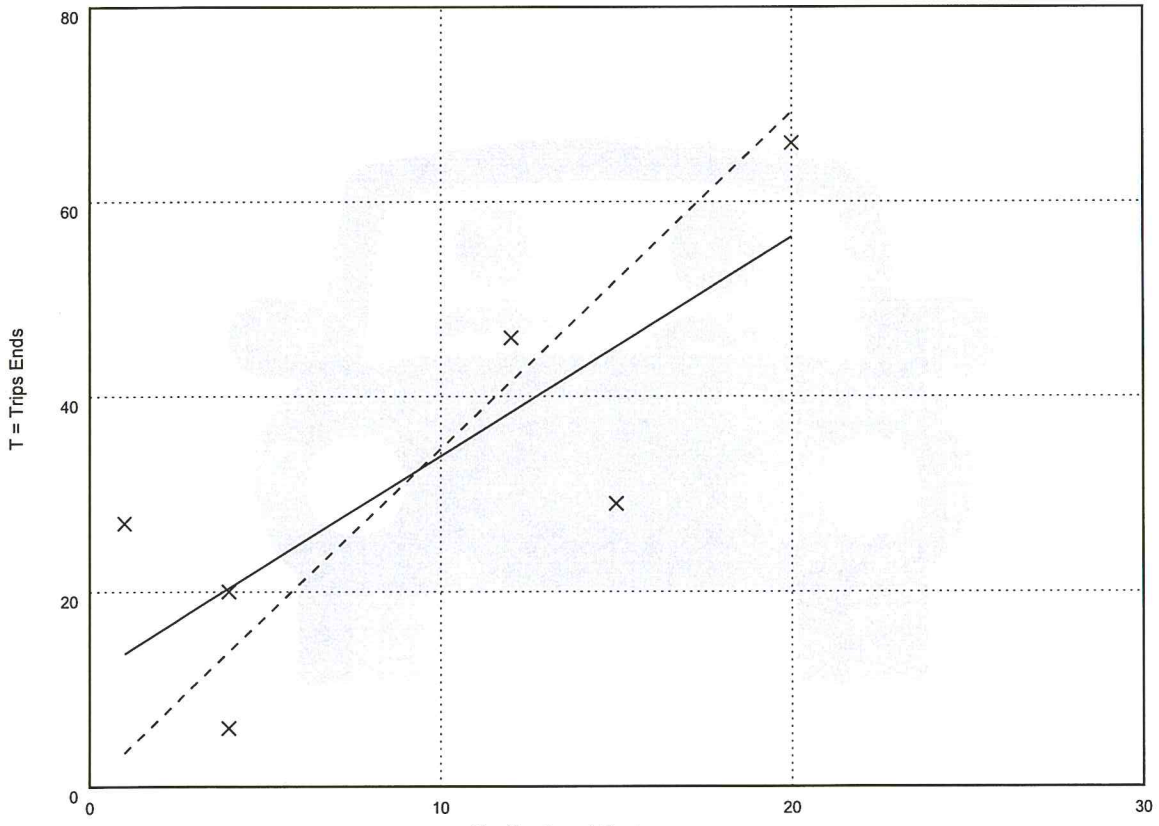
Vehicle Trip Ends vs: Employees
On a: Weekday,
AM Peak Hour of Generator

Setting/Location: General Urban/Suburban
Number of Studies: 6
Avg. Num. of Employees: 9
Directional Distribution: 45% entering, 55% exiting

Vehicle Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
3.46	1.50 - 27.00	3.63

Data Plot and Equation



Fitted Curve Equation: T = 2.25(X) + 11.37

R^2= 0.64

Motel
(320)

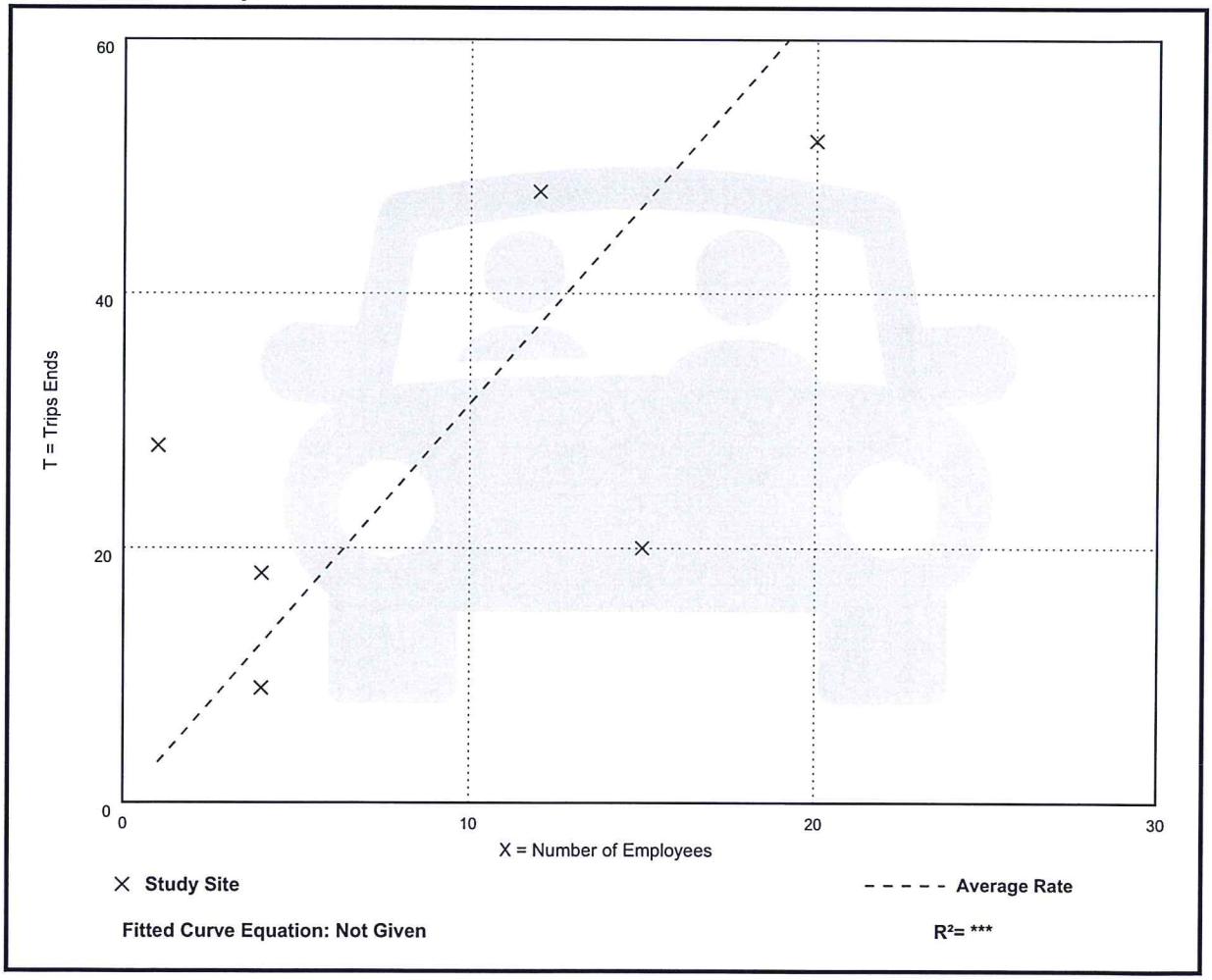
Vehicle Trip Ends vs: Employees
On a: Weekday,
PM Peak Hour of Generator

Setting/Location: General Urban/Suburban
Number of Studies: 6
Avg. Num. of Employees: 9
Directional Distribution: 61% entering, 39% exiting

Vehicle Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
3.13	1.33 - 28.00	3.85

Data Plot and Equation



Fitted Curve Equation: Not Given

R^2= ***

Motel
(320)

Vehicle Trip Ends vs: Employees
On a: Saturday

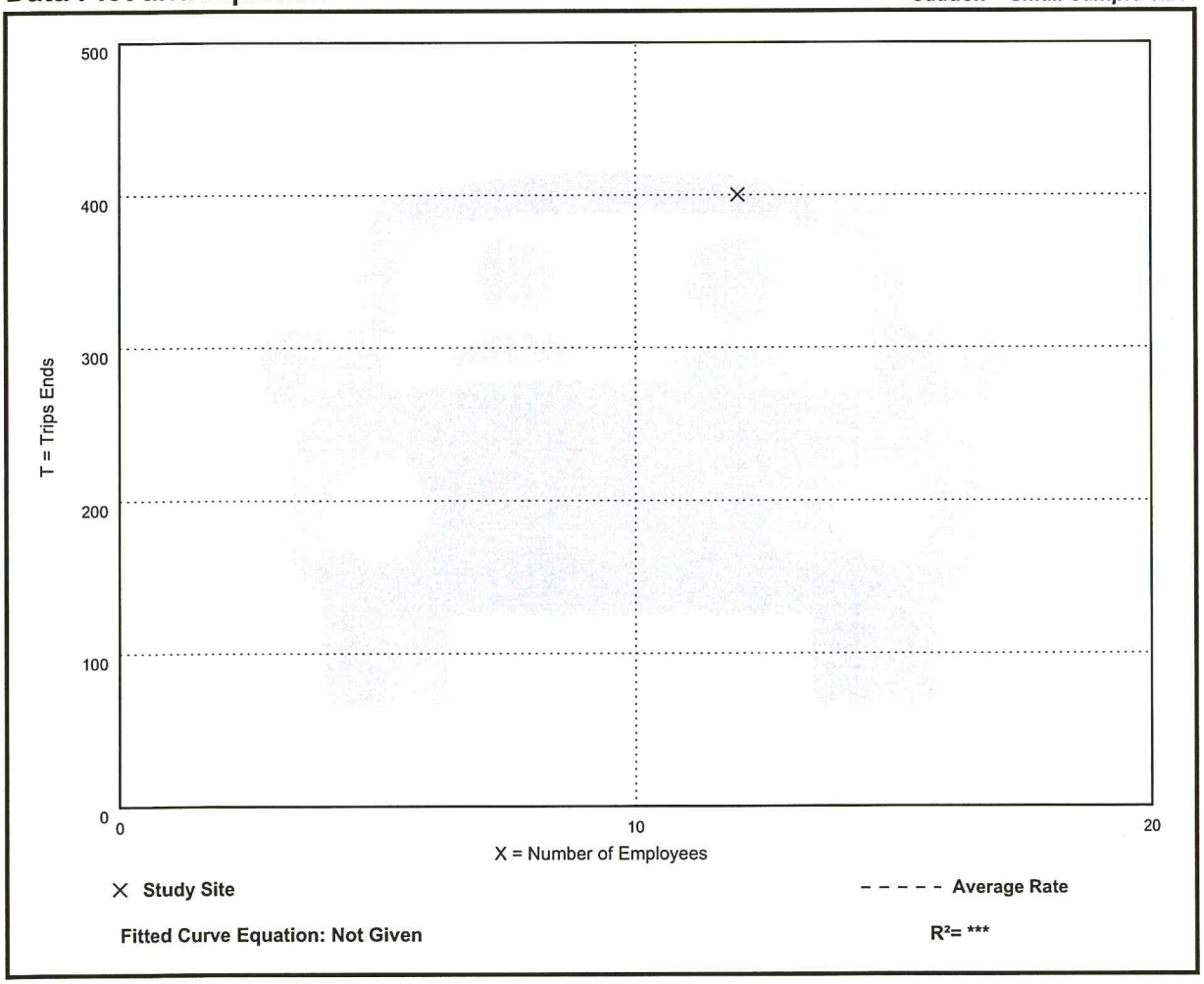
Setting/Location: General Urban/Suburban
Number of Studies: 1
Avg. Num. of Employees: 12
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
33.33	33.33 - 33.33	***

Data Plot and Equation

Caution – Small Sample Size



Motel
(320)

Vehicle Trip Ends vs: Employees
On a: Saturday, Peak Hour of Generator

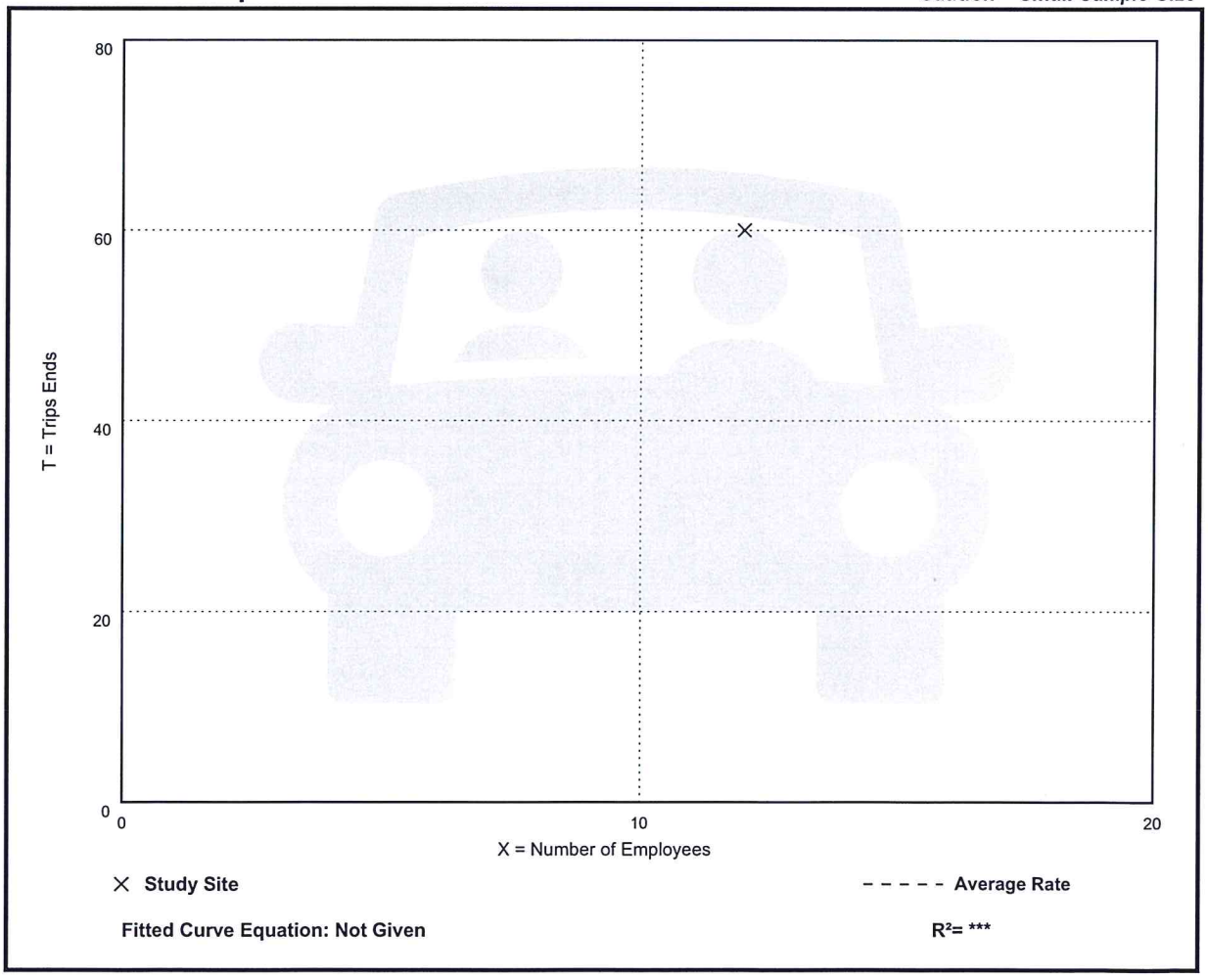
Setting/Location: General Urban/Suburban
Number of Studies: 1
Avg. Num. of Employees: 12
Directional Distribution: 38% entering, 62% exiting

Vehicle Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
5.00	5.00 - 5.00	***

Data Plot and Equation

Caution – Small Sample Size



Fitted Curve Equation: Not Given

R^2= ***

Motel
(320)

Vehicle Trip Ends vs: Employees
On a: Sunday

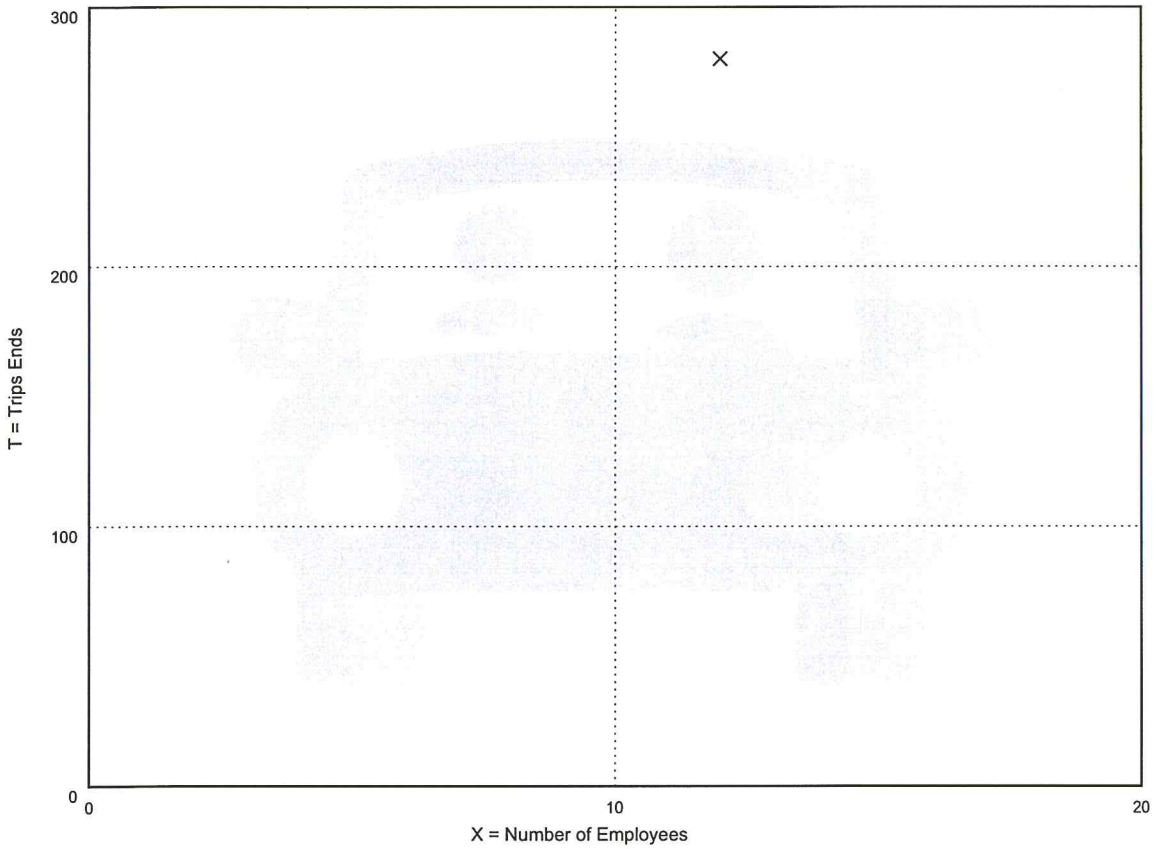
Setting/Location: General Urban/Suburban
Number of Studies: 1
Avg. Num. of Employees: 12
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
23.33	23.33 - 23.33	***

Data Plot and Equation

Caution – Small Sample Size



Fitted Curve Equation: Not Given

R^2= ***

Motel
(320)

Vehicle Trip Ends vs: Employees
On a: Sunday, Peak Hour of Generator

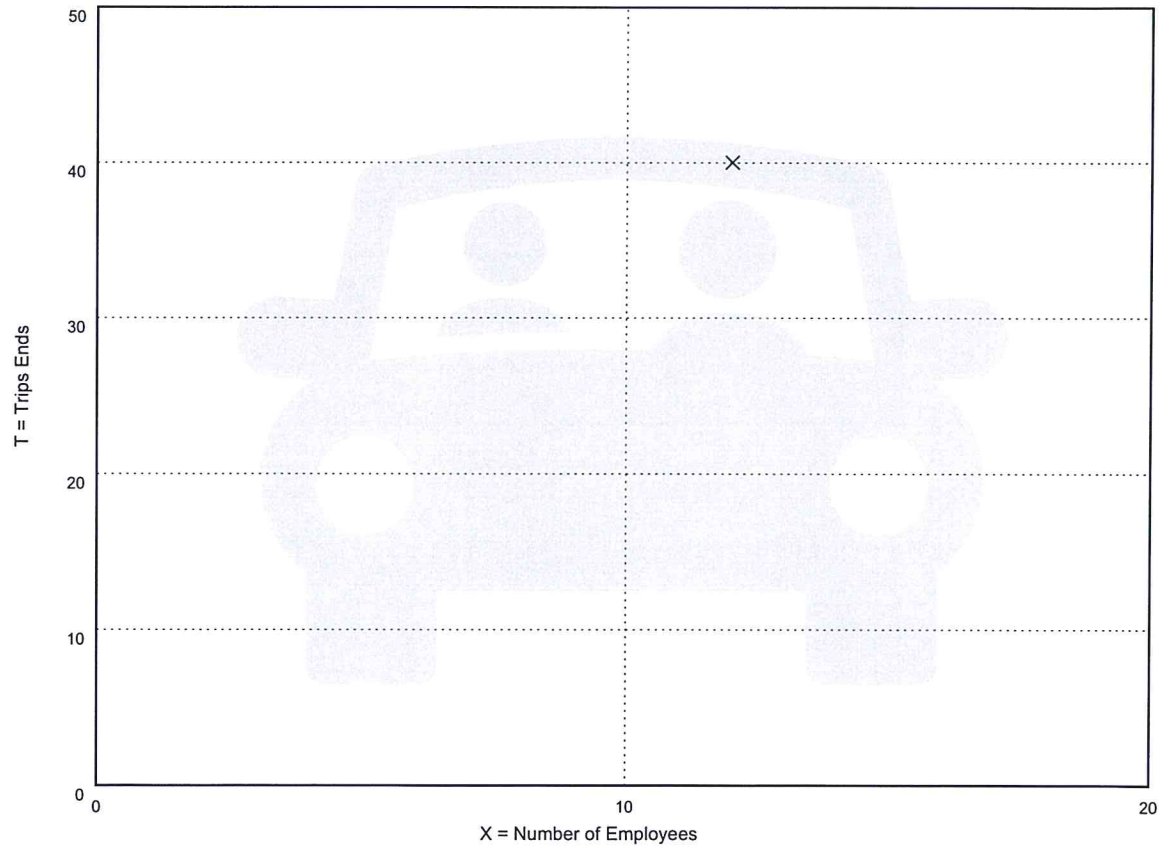
Setting/Location: General Urban/Suburban
Number of Studies: 1
Avg. Num. of Employees: 12
Directional Distribution: 54% entering, 46% exiting

Vehicle Trip Generation per Employee

Average Rate	Range of Rates	Standard Deviation
3.33	3.33 - 3.33	***

Data Plot and Equation

Caution – Small Sample Size



Fitted Curve Equation: Not Given

R^2= ***

Florida Building Code, Seventh Edition (2020) - Energy Conservation

EnergyGauge Summit® Fla/Com-2020, Effective Date: Dec 31, 2020

C401.2.3: FBC Total Building Performance Compliance Option

Compliance applying the requirements of Sections C402.5, C403.2, C404,C405.2, C405.4, C405.5, C407 and C408. The building energy cost shall be equal to or less than 85 percent of the standard reference design building.

Check List

Applications for compliance with the Florida Building Code, Energy Conservation shall include:

- ☐ This Checklist
- ☐ The full compliance report generated by the software that contains the project summary, compliance summary, certifications and detailed component compliance reports.
- ☐ The compliance report must include the full input report generated by the software as contigous part of the compliance report.
- ☐ Boxes appropriately checked in the Mandatory Section of the complaince report.

PROJECT SUMMARY

Short Desc:	LA BRISA INN	**Description:**	LA BRISA INN - PANAMA
Owner:	CHOICE HOTELS		
Address1:	5711	**City:**	PANAMA CITY
Address2:	E HIGHWAY 98	**State:**	FLORIDA
		Zip:	32404
Type:	Hotel	**Class:**	Renovation to existing buildi
Jurisdiction:	PANAMA CITY, BAY COUNTY, FL (131500)		
Conditioned Area:	26788 SF	**Conditioned & UnConditioned Area:**	27286 SF
No of Stories:	2	**Area entered from Plans**	14700 SF
Permit No:	0	**Max Tonnage**	3.9
		If different, write in:	_____
Building Rotation:	231 Deg Clockwise. Walls & windows will be rotated accordingly		

Compliance Summary

Component	Design	Criteria	Result
Gross Energy Cost (in $)	58,384.0	137,365.0	**PASSED**
LIGHTING CONTROLS			**PASSES**
EXTERNAL LIGHTING			**PASSES**
HVAC SYSTEM			**PASSES**
PLANT			**No Entry**
WATER HEATING SYSTEMS			**PASSES**
PIPING SYSTEMS			**PASSES**
Met all required compliance from Check List?			**Yes/No/NA**

IMPORTANT MESSAGE
Info 5009 -- -- -- An input report of this design building must be submitted along with this Compliance Report

CERTIFICATIONS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code

Prepared By: MITESH K. SMART Building Official: _____

Date: _____ Date: _____

I certify that this building is in compliance with the FLorida Energy Efficiency Code

Owner Agent: CHOICE HOTELS Date: _____

If Required by Florida law, I hereby certify (*) that the system design is in compliance with the Florida Energy Efficiency Code

Architect: RICHARD P. BROOKFIELD Reg No: AR14568 Signature_____

Electrical Designer: MITESH K. SMART Reg No: PE52772 Signature Mitesh Smart

Lighting Designer: MITESH K. SMART Reg No: PE52772 Signature Mitesh Smart

Mechanical Designer: MITESH K. SMART Reg No: PE52772 Signature Mitesh Smart

Plumbing Designer: MITESH K. SMART Reg No: PE52772 Signature Mitesh Smart

(*) Signature is required where Florida Law requires design to be performed by registered design professionals per C103.1.1.1.2

Project: LA BRISA INN
Title: LA BRISA INN - PANAMA CITY
Type: Hotel
(WEA File: FL_PANAMA_CITY_BAY_CO.tm3)

Building End Uses

	1) Proposed	2) Baseline
Total	*4142.80*	*11490.70*
	$58,384	*$161,606*
ELECTRICITY(MBtu/kWh/$)	4142.80	11490.70
	1213799	3366787
	$58,384	*$161,606*
AREA LIGHTS	111.60	232.10
	32685	68016
	$1,572	*$3,265*
MISC EQUIPMT	155.10	155.10
	45438	45438
	$2,186	*$2,181*
PUMPS & MISC	0.10	0.20
	33	71
	$2	*$3*
SPACE COOL	85.50	83.60
	25040	24484
	$1,204	*$1,175*
SPACE HEAT	174.90	183.70
	51239	53837
	$2,465	*$2,584*
VENT FANS	3615.60	10836.00
	1059364	3174941
	$50,955	*$152,397*

Credits Applied: None
Passing Criteria = 137365
Design (including any credits) = 58384
Passing requires Proposed Building cost to be at most 85% of Baseline cost. This Proposed Building is at 36.1%

PASSES

Project: LA BRISA INN
Title: LA BRISA INN - PANAMA CITY
Type: Hotel
(WEA File: FL_PANAMA_CITY_BAY_CO.tm3)

External Lighting Compliance

Description	Category	Tradable?	Allowance (W/Unit)	Area or Length or No. of Units (Sqft or ft)	ELPA (W)	CLP (W)
Wall Light E	Walk way less than 10 feet wide	Yes	0.50	1,987.0	994	1,270
Emergency Light X	Internally illuminated exit signs	No	5.00	14.0	70	56
Down Light C2	Entry Canopies	Yes	0.25	690.0	173	153

Tradable Surfaces: 1423 (W) Allowance for Tradable: 1566 (W) **PASSES**
All External Lighting: 1479 (W)
Complicance check includes a excess/Base allowance of 400.00(W)

Project: LA BRISA INN
Title: LA BRISA INN - PANAMA CITY
Type: Hotel
(WEA File: FL_PANAMA_CITY_BAY_CO.tm3)

Lighting Controls Compliance

Acronym	Ashrae ID	Description	Area (sq.ft)	Design CP	Min CP	Compliance
ROOM A	14,001	Hotel/Motel Guest Rooms	265	3	1	**PASSES**
ROOM A-ADA	14,001	Hotel/Motel Guest Rooms	265	3	1	**PASSES**
ROOM A-SHORT	14,001	Hotel/Motel Guest Rooms	176	3	1	**PASSES**
ROOM B	14,001	Hotel/Motel Guest Rooms	265	3	1	**PASSES**
ROOM C	14,001	Hotel/Motel Guest Rooms	270	3	1	**PASSES**
ROOM C-ADA	14,001	Hotel/Motel Guest Rooms	270	3	1	**PASSES**
ROOM C-SHORT	14,001	Hotel/Motel Guest Rooms	180	3	1	**PASSES**
FITNESS	9,003	Exercise Area (Gym)	270	2	1	**PASSES**
LOBBY	17	Office - Enclosed	427	1	1	**PASSES**
BACK OFFICE	17	Office - Enclosed	59	1	1	**PASSES**
BREAKFAST SE/	8	Food Service - Leisure Dining	383	1	1	**PASSES**
COFFEE AREA	8	Food Service - Leisure Dining	103	1	1	**PASSES**
PREP. ROOM	8	Food Service - Leisure Dining	71	1	1	**PASSES**
UNISEX BATHR(	6	Toilet and Washroom	43	1	1	**PASSES**
JAN. STG.	2	Storage & Warehouse - Inactive Storage	83	1	1	**PASSES**

PASSES

Project: LA BRISA INN
Title: LA BRISA INN - PANAMA CITY
Type: Hotel
(WEA File: FL_PANAMA_CITY_BAY_CO.tm3)

System Report Compliance

ROOM A — **ROOM A - PTAC 1** — **Constant Volume Packaged Terminal System** — **No. of Units 28**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	PTHP All Capacities (Cooling Mode)	11600	11.60	10.52			PASSES
Heating System	PTHP All Capacities (Heating Mode)	10400	3.40	2.93			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	341	0.30	0.82			PASSES

ROOM A-ADA — **ROOM A-ADA - PTAC 1** — **Constant Volume Packaged Terminal System** — **No. of Units 2**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	PTHP All Capacities (Cooling Mode)	11600	11.60	10.52			PASSES
Heating System	PTHP All Capacities (Heating Mode)	10400	3.40	2.93			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	341	0.30	0.82			PASSES

ROOM A-SHORT — **ROOM A-SHORT - PTAC 1** — **Constant Volume Packaged Terminal System** — **No. of Units 2**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance
Cooling System	PTHP All Capacities (Cooling Mode)	11600	11.60	10.52			PASSES
Heating System	PTHP All Capacities (Heating Mode)	10400	3.40	2.93			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	341	0.30	0.82			PASSES

ROOM B — **ROOM B - PTAC 1** — **Constant Volume Packaged Terminal System** — **No. of Units 12**

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Compliance

Cooling System	PTHP All Capacities (Cooling Mode)	11600	11.60	10.52		PASSES
Heating System	PTHP All Capacities (Heating Mode)	10400	3.40	2.93		PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	341	0.30	0.82		PASSES

ROOM C **ROOM C - PTAC 1** **Constant Volume Packaged Terminal System** **No. of Units** 43

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	PTHP All Capacities (Cooling Mode)	11600	11.60	10.52			PASSES
Heating System	PTHP All Capacities (Heating Mode)	10400	3.40	2.93			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	341	0.30	0.82			PASSES

ROOM C-ADA **ROOM C-ADA - PTAC 1** **Constant Volume Packaged Terminal System** **No. of Units** 4

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	PTHP All Capacities (Cooling Mode)	11600	11.60	10.52			PASSES
Heating System	PTHP All Capacities (Heating Mode)	10400	3.40	2.93			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	341	0.30	0.82			PASSES

ROOM C-SHORT **ROOM C-SHORT - PTAC 1** **Constant Volume Packaged Terminal System** **No. of Units** 4

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	PTHP All Capacities (Cooling Mode)	11600	11.60	10.52			PASSES
Heating System	PTHP All Capacities (Heating Mode)	10400	3.40	2.93			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	341	0.30	0.82			PASSES

FITNESS	FITNESS - PTAC 2	Constant Volume Packaged Terminal System	No. of Units 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	PTHP All Capacities (Cooling Mode)	11600	11.60	10.52			PASSES
Heating System	PTHP All Capacities (Heating Mode)	10400	3.40	2.93			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	341	0.30	0.82			PASSES

BREAKROOM & LOBBY	BREAKROOM & LOBBY - AHU-1	Constant Volume Air Cooled Split System < 65000 Btu/hr	No. of Units 1

Component	Category	Capacity	Design Eff	Eff Criteria	Design IPLV	IPLV Criteria	Comp-liance
Cooling System	Air Conditioners Air Cooled Split System < 65000 Btu/h Cooling Capacity	46500	16.00	13.00	8.00		PASSES
Heating System	Heat Pumps Air Cooled (Heating Mode) Split System < 65000 Btu/h Cooling Capacity	44500	9.60	8.20			PASSES
Air Handling System -Supply	Air Handler (Supply) - Constant Volume	1600	0.35	0.82			PASSES
Air Distribution System (Sup)	ADS System (Sup)		6.00	6.00			PASSES

PASSES

Plant Compliance

Description	Installed No	Size	Design Eff	Min Eff	Design IPLV	Min IPLV	Category	Comp liance

None

Project: LA BRISA INN
Title: LA BRISA INN - PANAMA CITY
Type: Hotel
(WEA File: FL_PANAMA_CITY_BAY_CO.tm3)

Water Heater Compliance

Description	Type	Category	Design Eff	Min Eff	Design Loss	Max Loss	Comp liance
GWH	Gas Storage water heater	> 75000 Btu/h; < 4000 (Btu/h)/gal	0.97	0.80	1349.88	1349.88	PASSES

PASSES

Project: LA BRISA INN
Title: LA BRISA INN - PANAMA CITY
Type: Hotel
(WEA File: FL_PANAMA_CITY_BAY_CO.tm3)

Piping System Compliance

Category	Pipe Dia [inches]	Is Runout?	Operating Temp [F]	Ins Cond [Btu-in/hr .SF.F]	Ins Thick [in]	Req Ins Thick [in]	Compl-iance
Domestic and Service Hot Water Systems	1.50	False	120.00	0.28	1.50	1.00	PASSES

PASSES

Mandatory Requirements (as applicable)

Requirements compiled by US Department of Energy and Pacific Northwest National Laboratory. Adopted for FBC with permission. Not all may be applicable

Topic	Section	Component	Description	Yes	N/A	Exempt
1. To be checked by Designer or Engineer						
Insulation	C303.2	Envelope	Below-grade wall insulation installed per manufacturer's instructions.	☐	☐	☐
Insulation	C303.2	Envelope	Slab edge insulation installed per manufacturer's instructions.	☐	☐	☐
Insulation	C303.2	Envelope	Above-grade wall insulation installed per manufacturer's instructions.	☐	☐	☐
Insulation	C402.3	Envelope	High-albedo roofs satisfy one of the following: 3-year-aged solar reflectance >= 0.55 and thermal emittance >= 0.75 or 3-year-aged solar reflectance index >= 64.0.	☐	☐	☐
Fenestration	C402.4.4	Envelope	U-factor of opaque doors associated with the building thermal envelope meets requirements.	☐	☐	☐
HVAC	C403.2.7	Mechanical	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	☐	☐	☐
HVAC	C403.2.4.8	Mechanical	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.2.4.8.1 and C403.2.4.8.2).	☐	☐	☐
SYSTEM_SPECIFIC	C403.3, C403.3.1, C403.3.2	Mechanical	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐	☐	☐
SYSTEM_SPECIFIC	C403.3.2	Mechanical	Economizer operation will not increase heating energy use during normal operation.	☐	☐	☐
SYSTEM_SPECIFIC	C403.3.3.3	Mechanical	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.3.3.3 for applicable device types and climate zones.	☐	☐	☐
SYSTEM_SPECIFIC	C403.3.3.4	Mechanical	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐	☐	☐
SYSTEM_SPECIFIC	C403.3.3.5	Mechanical	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.2.4.3 for details.	☐	☐	☐
SYSTEM_SPECIFIC	C403.3.4, C403.3.4.1, C403.3.4.2, C403.3.1	Mechanical	Water economizers provided where required, meet the requirements for design capacity, maximum pressure drop and integrated economizer control.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.1	Mechanical	Three-pipe hydronic systems using a common return for hot and chilled water are not used.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.3.1	Mechanical	Hydronic heat pump systems connected to a common water loop meet heat rejection and heat addition requirements.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.3.2	Mechanical	Multiple-cell heat rejection equipment with variable speed fan drives are controlled to operate the maximum number of fans allowed and so that all fans operate at the same fan speed required for the instantaneous cooling duty. The minimum fan speed will be the minimum allowable speed of the fan drive system in accordance with the manufacturer's recommendations.	☐	☐	☐

SYSTEM_SPECIFIC	C403.4.3.4	Mechanical	Open-circuit cooling towers having water cooled chiller systems and multiple or vairable speed condenser pumps, are designed so that tower cells can run in parallel with larger of flow crtieria.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4	Mechanical	Supply air systems serving multiple zones have VAV systems with controls configured to reduce the volume of air that is reheated, recooled or mixed in each zone. See section for details.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.1	Mechanical	Single-duct VAV systems use terminal devices configured to reduce the supply of primary supply air before reheating or recooling takes place.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.2	Mechanical	Systems that have 1 warm air duct and 1 cool air duct use terminal devices configured to reduce the flow from one duct to a minimum before mixing of air from the other duct takes place.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.3	Mechanical	Individual dual-duct or mixing heating and cooling systems with a single fan and with total capacities > 90,000 Btu/h not equipped with air economizers.	☐	☐	☐
SYSTEM_SPECIFIC	C404.2	Mechanical	Service water heating equipment meets efficiency requirements.	☐	☐	☐
SYSTEM_SPECIFIC	Table_C403.3.2(8)a	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=40.2 gpm/hp .	☐	☐	☐
SYSTEM_SPECIFIC	Table_C403.3.2(8)b	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=20.0 gpm/hp.	☐	☐	☐
SYSTEM_SPECIFIC	Table_C403.3.2(8)c	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=16.1 gpm/hp.	☐	☐	☐
SYSTEM_SPECIFIC	Table_C403.3.2(8)d	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=7.0 gpm/hp	☐	☐	☐
SYSTEM_SPECIFIC	Table_C403.3.2(8)e	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=134 kBtu/h-hp w/ Ammonia test fluid.	☐	☐	☐
SYSTEM_SPECIFIC	Table_C403.3.2(8)f	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=110 kBtu/h-hp w/ Ammonia test fluid.	☐	☐	☐
SYSTEM_SPECIFIC	Table_C403.3.2(8)g	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=157 kBtu/h-hp w/ R-507A test fluid.	☐	☐	☐
SYSTEM_SPECIFIC	Table_C403.3.2(8)h	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=135 kBtu/h-hp w/ R-507A test fluid.	☐	☐	☐
SYSTEM_SPECIFIC	Table_C403.3.2(8)i	Mechanical	Heat Rejection Equipment: Minimum Efficiency Requirement >=176 kBtu/h-hp.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.1	Mechanical	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.2	Mechanical	HVAC fan motors not oversized beyond allowable limits.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.3	Mechanical	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.4	Mechanical	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.5	Mechanical	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	☐	☐	☐
2. To be checked by Plan Reviewer						
Plan Review	C103.2	Envelope	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐	☐	☐

Plan Review	C103.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐	☐	☐
Plan Review	C103.2	Mechanical	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐	☐	☐
Plan Review	C103.2	Interior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐	☐	☐
Plan Review	C103.2	Exterior Lighting	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐	☐	☐
Insulation	C402.2.5	Envelope	Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil.	☐	☐	☐
Insulation	C402.2.4	Envelope	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐	☐	☐
Insulation	C402.2.6	Project	Radiant heating systems panels insulated to >=R-3.5 on face opposite space being heated.	☐	☐	☐
HVAC	C402.2.6	Mechanical	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐	☐	☐
Insulation	C402.2.6	Envelope	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐	☐	☐
Air Leakage	C402.5.7	Envelope	Vestibules are installed on all building entrances. Doors have self-closing devices.	☐	☐	☐
HVAC	C403.2.13	Mechanical	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐	☐	☐
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐	☐	☐
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐	☐	☐
HVAC	C403.2.4.2	Mechanical	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.4	Mechanical	Zone isolation devices and controls installed where applicable.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.4	Mechanical	Zone isolation devices and controls installed where applicable.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.7	Mechanical	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.5	Mechanical	Hot water boilers supplying heat via one- or two-pipe systems include outdoor setback control.	☐	☐	☐
HVAC	C403.2.6	Mechanical	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐	☐	☐

HVAC	C403.2.6.1	Mechanical	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.5.1	Mechanical	Hydronic and multizone HVAC system controls are VAV fans driven by mechanical or electrical variable speed drive per Table C403.2.12.5.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.5.3	Mechanical	Reset static pressure setpoint for DDC controlled VAV boxes reporting to central controller based on the zones requiring the most pressure.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2	Mechanical	The heating of fluids in hydronic systems that have been previously mechanically cooled, and the cooling of fluids that have been previously mechanically heated are limited in accordance with Sections C403.4.2.1-C403.4.2.3. Single boiler systems >500,000 Btu/h have multistaged or modulating burner.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.3.2	Mechanical	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.4	Mechanical	Hydronic systems greater than 500,000 Btu/h designed for variable fluid flow. See section language for full details.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.5	Mechanical	System turndown requirement met through multiple single-input boilers, one or more modulating boilers, or a combination of single-input and modulating boilers. Boiler input between 1.0 MBtu/h and 5 MBtu/h has 3:1 turndown ratio, boiler input between 5.0 MBtu/h and 10 MBtu/h has 4:1 turndown ratio, boiler input > 10.0 MBtu/h has 5:1 turndown ratio.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.6	Mechanical	Chilled water plants with multiple chillers have capability to reduce flow automatically through the chiller plant when a chiller is shut down. Boiler plants with multiple boilers have the capability to reduce flow automatically through the boiler plant when a boiler is shut down.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.3.1	Mechanical	Fan systems with total system motor capacity >=5 hp associated with heat rejection equipment configured to automatically modulate the fan speed to control the leaving fluid temperature or condensing temp/pressure of heat rejection device.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.3.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets minimum efficiency requirement: >=40.2 gpm/hp.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.5	Mechanical	Multiple zone HVAC systems have supply air temperature reset controls.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.6	Mechanical	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	☐	☐	☐

SYSTEM_SPECIFIC	C404.2.1	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	☐	☐	☐
SYSTEM_SPECIFIC	C404.2.1	Mechanical	Gas-fired water-heating equipment installed in new buildings: where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity-weighted-average thermal efficiency >= 90 Et. Exclude input rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	☐	☐	☐
SYSTEM_SPECIFIC	C404.4	Mechanical	All piping insulated in accordance with section details and Table C403.2.10.	☐	☐	☐
SYSTEM_SPECIFIC	C404.5, C404.5.1, C404.5.2	Mechanical	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐	☐	☐
SYSTEM_SPECIFIC	C404.6.3	Mechanical	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐	☐	☐
SYSTEM_SPECIFIC	C404.7	Mechanical	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐	☐	☐
Wattage	C405.4.1	Exterior Lighting	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐	☐	☐
Plan Review	C405.5.2	Project	Group R-2 dwelling units have separate electrical meters.	☐	☐	☐
Plan Review	C406	Project	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐	☐	☐
SYSTEM_SPECIFIC	C408.2.2.2	Mechanical	HVAC hydronic heating and cooling coils have means to balance and have pressure test connections.	☐	☐	☐

3. To be checked by Inspector

Insulation	C303.1	Envelope	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐	☐	☐
Insulation	C303.1	Envelope	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.	☐	☐	☐
Insulation	C402.2.2	Envelope	Insulation installed on a suspended ceiling having ceiling tiles is not being specified for roor/ceiling assemblies. Continuous insulation board installed in 2 or more layers with edge joints offset between layers.	☐	☐	☐
Insulation	C402.2.2	Envelope	Skylight curbs are insulated to the level of roofs with insulation above deck or R-5.	☐	☐	☐
Fenestration	C303.1.3	Envelope	Fenestration products rated in accordance with NFRC.	☐	☐	☐
Insulation	C303.2, C402.2.5	Envelope	Floor insulation installed per manufacturer's instructions. Cavity or structural slab insulation installed in permanent contact with underside of decking or structural slabs.	☐	☐	☐

Insulation	C303.2.1	Envelope	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐	☐	☐
Insulation	C303.2.1	Envelope	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.	☐	☐	☐
Insulation	C402.1.3	Envelope	Non-swinging opaque doors have R-4.75 insulation.	☐	☐	☐
Insulation	C104	Envelope	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐	☐	☐
Insulation	C104	Envelope	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐	☐	☐
Insulation	C104	Envelope	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	☐	☐	☐
Air Leakage	C402.5	Envelope	Building envelope contains a continuous air barrier that has been tested and deemed to limit air leakage <= 0.40 cfm/ft2.	☐	☐	☐
Air Leakage	C402.5.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner.	☐	☐	☐
Air Leakage	C402.5.1.1	Envelope	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐	☐	☐
Air Leakage	C402.5.1.2.1	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability <= 0.004 dfm/ft2. Air barrier penetrations are sealed in an approved manner.	☐	☐	☐
Air Leakage	C402.5.1.2.2	Envelope	The building envelope contains a continuous air barrier that is sealed in an approved manner and average assembly air leakage <= 0.04 cfm/ft2. Air barrier penetrations are sealed in an approved manner.	☐	☐	☐
Air Leakage	C402.5.2, C402.5.4	Envelope	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐	☐	☐
Air Leakage	C402.5.5, C403.2.4.3	Envelope	Stair and elevator shaft vents have motorized dampers that automatically close. Refernece section C403.2.4.3 for operational details.	☐	☐	☐
Air Leakage	C402.5.6	Envelope	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐	☐	☐
Air Leakage	C402.5.6	Envelope	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐	☐	☐
Air Leakage	C402.5.8	Envelope	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐	☐	☐
HVAC	C403.2.1	Mechanical	HVAC systems and equipment design loads calculated in accordance with ANSI/ASHRAE/ACCA Standard 183 or by an approved equivalent computational procedure	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.10	Mechanical	HVAC piping insulation insulated in accordance with Table C403.2.10. Insulation exposed to weather is protected from damage and is provided with shielding from solar radiation.	☐	☐	☐
HVAC	C403.2.3	Mechanical	HVAC equipment efficiency verified.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.3	Mechanical	PTAC and PTHP with sleeves 16 in. by 42 in. labeled for replacement only as per Footnote b to Table C403.2.3(3).	☐	☐	☐

SYSTEM_SPECIFIC	C403.2.3	Mechanical	Centrifugal fan open-circuit cooling towers having combined rated capacity >= 1100 gpm meets minimum efficiency requirement: >=38.2 gpm/hp.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.1	Mechanical	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.1.1	Mechanical	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐	☐	☐
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 °F deadband.	☐	☐	☐
HVAC	C403.2.4.1.2	Mechanical	Thermostatic controls have a 5 °F deadband.	☐	☐	☐
HVAC	C403.2.4.1.3	Mechanical	Temperature controls have setpoint overlap restrictions.	☐	☐	☐
HVAC	C403.2.4.2.1, C403.2.4.2.2	Mechanical	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.4.2.3	Mechanical	Systems include optimum start controls.	☐	☐	☐
HVAC	C403.2.4.5, C403.2.4.6	Mechanical	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	☐	☐	☐
HVAC	C403.2.6.2	Mechanical	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐	☐	☐
Air Leakage	C403.2.4.3	Mechanical	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.	☐	☐	☐
HVAC	C403.2.9.1, C403.2.9.2	Mechanical	HVAC ducts and plenums insulated in accordance with C403.2.9.1 and constructed in accordance with C403.2.9.2, verification may need to occur during Foundation Inspection.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.5.2	Mechanical	VAV fans have static pressure sensors located so controller setpoint <=1.2 w.c..	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.2	Mechanical	Two-pipe hydronic systems using a common distribution system have controls to allow a deadband >=15 °F, allow operation in one mode for at least 4 hrs before changeover, and have rest controls to limit heating and cooling supply temperature to <=30 °F.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.2.3.3	Mechanical	Two-position automatic valve interlocked to shut off water flow when hydronic heat pump with pumping system >10 hp is off.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.4.7	Mechanical	Parallel-flow fan-powered VAV air terminals have automatic controls configured to 1) turn off the terminal fan except when space heating is required or where required for ventilation, 2) turn on the terminal fan as the first stage of heating before the heating coil is activated, and 3) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or, reverse the terminal damper logic and provide heating from the central air handler by primary air.	☐	☐	☐
SYSTEM_SPECIFIC	C403.2.12.5.3	Mechanical	Systems with DDC of individual zones reporting to the central control panel configured to reset the static pressure setpoint based on zone requiring the most pressure. The DDC is capable of monitoring zone damper positions or have an alternative method of indicating the need for static pressure. See section for details.	☐	☐	☐

SYSTEM_SPECIFIC	C403.2.12.5.2	Mechanical	Static pressure sensors used to control VAV fans located such that the controller setpoint is <= 1.2 inches w.c.. Where this results in one or more sensors being located downstream of major duct splits, not less than one sensor located on each major branch.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.5	Mechanical	Condenser heat recovery system that can heat water to 85 °F or provide 60% of peak heat rejection is installed for preheating of service hot water.	☐	☐	☐
SYSTEM_SPECIFIC	C403.4.6	Mechanical	Hot gas bypass limited to: <=240 kBtu/h – 50% >240 kBtu/h – 25%	☐	☐	☐
SYSTEM_SPECIFIC	C404.3	Mechanical	Heat traps installed on supply and discharge piping of non-circulating systems.	☐	☐	☐
SYSTEM_SPECIFIC	C404.6.1	Mechanical	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐	☐	☐
SYSTEM_SPECIFIC	C404.6.1, C404.6.2	Mechanical	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.1	Mechanical	Pool heaters are equipped with on/off switch and no continuously burning pilot light.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.2	Mechanical	Time switches are installed on all pool heaters and pumps.	☐	☐	☐
SYSTEM_SPECIFIC	C404.9.3	Mechanical	Vapor retardant pool covers are provided for heated pools and permanently installed spas.	☐	☐	☐
Controls	C405.2.1, C405.2.1.1	Interior Lighting	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐	☐	☐
Controls	C405.2.1.2	Interior Lighting	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐	☐	☐
Controls	C405.2.1.3	Interior Lighting	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐	☐	☐
Controls	C405.2.2, C405.2.2.1, C405.2.2.2	Interior Lighting	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐	☐	☐

Controls	C405.2.2.2	Interior Lighting	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐	☐	☐
Controls	C405.2.3, C405.2.3.1, C405.2.3.2	Interior Lighting	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐	☐	☐
Controls	C405.2.4	Interior Lighting	Separate lighting control devices for specific uses installed per approved lighting plans.	☐	☐	☐
Wattage	C405.2.4	Interior Lighting	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐	☐	☐
Controls	C405.2.6	Exterior Lighting	Exterior lighting systems shall be provided with controls that comply with Sections C405.2.6.1 through C405.2.6.4. Decorative lighting systems shall comply with Sections C405.2.6.1, C405.2.6.2, and C405.2.6.4.	☐	☐	☐
Wattage	C405.3.1	Interior Lighting	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐	☐	☐
Mandatory Additional	C406.4	Project	Enhanced digital lighting controls efficiency package: Interior lighting has following enhanced lighting controls in accordance with Section C405.2.2: Luminaires capable of continuous dimming and being addressed individually, <= 8 luminaires controlled in combination in a daylight zone, digital control system for fixtures, "Sequence of Operations" documentation, and functional testing per Section C408.	☐	☐	☐
Mandatory Additional	C406.6	Project	Dedicate outdoor air system efficiency package: Buildings with hydronic and/or multiple-zone HVAC systems are equipped with an independent ventilation system designed to provide >= 100-percent outdoor air to each individual occupied space, as specified by the IMC. The ventilation system is capable of total energy recovery and includes HVAC system controls that manage temperature resets >= 25 percent of delta design supply-air / room-air temp. Reference section C406.6 for qualifying systems/equipment.	☐	☐	☐
Mandatory Additional	C406.7, C406.7.1	Project	Enhanced Service Water Heat System efficiency package. One of the following SWH system enhancements must satisfy 60 percent of buildings annual hot water requirements, or 100 percent if the building requirements otherwise complies with heat recovery per Section C403.9.5: Waste heat recovery (from SWH, process equipment, OR on-site renewable water-heating.	☐	☐	☐
HVAC	C408.2.2.1	Mechanical	Air outlets and zone terminal devices have means for air balancing.	☐	☐	☐
Testing	C408.2.3.2	Mechanical	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐	☐	☐
HVAC	C403.2.14, C403.2.14.1, C403.2.14.2	Mechanical	Commercial refrigerators, freezers, refrigerator-freezers and refrigeration equipment, defined in U.S. 10 CFR part 431.62, shall have an energy use in kWh/day not greater than the values of Table C403.2.14.1(1) when tested and rated in accordance with AHRI Standard 1200. Walk-in cooler and walk-in freezer refrigeration systems, except for walk-in process cooling refrigeration systems as defined in U.S. 10 CFR 431.302, shall meet the requirements of Tables C403.2.14.2(1), C403.2.14.2(2) and C403.2.14.2(3).	☐	☐	☐

4. To be checked by Inspector at Project Completion and Prior to Issuance of Certificate of Occupancy

Post Construction	C408.1.1, C408.2.5.2	Interior Lighting	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐	☐	☐
Post Construction	C408.1.1, C408.2.5.3	Mechanical	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐	☐	☐
Fenestration	C402.4.2.2	Envelope	Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value > 90 percent unless designed to exclude direct sunlight.	☐	☐	☐
Post Construction	C408.1.1	Project	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐	☐	☐
Post Construction	C408.2.1	Mechanical	Commissioning plan developed by registered design professional or approved agency.	☐	☐	☐
Post Construction	C408.2.3.1	Mechanical	HVAC equipment has been tested to ensure proper operation.	☐	☐	☐
Post Construction	C408.2.3.3	Mechanical	Economizers have been tested to ensure proper operation.	☐	☐	☐
Post Construction	C408.2.4	Mechanical	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐	☐	☐
Post Construction	C408.2.5.1	Mechanical	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐	☐	☐
Post Construction	C408.2.5.3	Mechanical	An air and/or hydronic system balancing report is provided for HVAC systems.	☐	☐	☐
Post Construction	C408.2.5.4	Mechanical	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐	☐	☐
Post Construction	C408.3	Interior Lighting	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐	☐	☐
Post Construction	C405.6	Project	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐	☐	☐
Post Construction	C405.7	Project	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐	☐	☐
Post Construction	C405.8.2, C405.8.2.1	Project	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐	☐	☐
Post Construction	C405.5.3	Project	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐	☐	☐

Input Data Report

Project Information

Project Name: LA BRISA INN **Project Title:** LA BRISA INN - PANAMA CITY

Address: 5711 **State:** FLORIDA **Zip:** 32404

Owner: CHOICE HOTELS

Building Type: Hotel **Building Classification:** Renovation to existing building

No.of Stories: 2 **GrossArea (SF):** 27,286

Bldg. Rotation: 231 Deg Clockwise. Walls & Windows will be rotated accordingly

Zones

No	Acronym	Description	Type	Area [sf]	Multi	Total Area [sf]	
1	ROOM A	ROOM A	CONDITIONED	265.0	28	7420.0	☐
2	ROOM A-ADA	ROOM A-ADA	CONDITIONED	265.0	2	530.0	☐
3	ROOM A-SHORT	ROOM A-SHORT	CONDITIONED	176.0	2	352.0	☐
4	ROOM B	ROOM B	CONDITIONED	265.0	12	3180.0	☐
5	ROOM C	ROOM C	CONDITIONED	270.0	45	12150.0	☐
6	ROOM C-ADA	ROOM C-ADA	CONDITIONED	270.0	4	1080.0	☐
7	ROOM C-SHORT	ROOM C-SHORT	CONDITIONED	180.0	4	720.0	☐
8	FITNESS	FITNESS	CONDITIONED	270.0	1	270.0	☐
9	BREAKROOM & LOBBY	BREAKROOM & LOBBY	CONDITIONED	1086.0	1	1086.0	☐
10	JAN. STG.	JAN. STG.	UNCONDITIONED	83.0	6	498.0	☐

Spaces

No	Acronym	Description	Type	Depth [ft]	Width [ft]	Height [ft]	Mult	Total Area [sf]	Total Vol[cf]	
In Zone:	**ROOM A**									
1	ROOM A	ROOM A	Hotel/Motel Guest Rooms	1.00	265.00	8.72	1	265.0	2310.8	☐
In Zone:	**ROOM A-ADA**									
1	ROOM A-ADA	ROOM A-ADA	Hotel/Motel Guest Rooms	1.00	265.00	8.72	1	265.0	2310.8	☐
In Zone:	**ROOM A-SHORT**									
1	ROOM A-SHC	ROOM A-SHORT	Hotel/Motel Guest Rooms	1.00	176.00	8.72	1	176.0	1534.7	☐
In Zone:	**ROOM B**									
1	ROOM B	ROOM B	Hotel/Motel Guest Rooms	1.00	265.00	8.72	1	265.0	2310.8	☐
In Zone:	**ROOM C**									
1	ROOM C	ROOM C	Hotel/Motel Guest Rooms	1.00	270.00	8.72	1	270.0	2354.4	☐
In Zone:	**ROOM C-ADA**									
1	ROOM C-ADA	ROOM C-ADA	Hotel/Motel Guest Rooms	1.00	270.00	8.72	1	270.0	2354.4	☐
In Zone:	**ROOM C-SHORT**									
1	ROOM C-SHC	ROOM C-SHORT	Hotel/Motel Guest Rooms	1.00	180.00	8.72	1	180.0	1569.6	☐
In Zone:	**FITNESS**									
1	FITNESS	FITNESS	Exercise Area (Gym)	1.00	270.00	8.72	1	270.0	2354.4	☐
In Zone:	**BREAKROOM & LOBBY**									
1	LOBBY	LOBBY	Office - Enclosed	1.00	427.00	8.72	1	427.0	3723.4	☐
2	BACK OFFICI	BACK OFFICE	Office - Enclosed	1.00	59.00	8.72	1	59.0	514.5	☐
3	BREAKFAST	BREAKFAST SEATTING	Food Service - Leisure Dining	1.00	383.00	8.72	1	383.0	3339.8	☐
4	COFFEE ARE	COFFEE AREA	Food Service - Leisure Dining	1.00	103.00	8.72	1	103.0	898.2	☐
5	PREP. ROOM	PREP. ROOM	Food Service - Leisure Dining	1.00	71.00	8.72	1	71.0	619.1	☐
6	UNISEX BATI	UNISEX BATHROOM	Toilet and Washroom	1.00	43.00	8.72	1	43.0	375.0	☐
In Zone:	**JAN. STG.**									
1	JAN. STG.	JAN. STG.	Storage & Warehouse - Inactive Storage	1.00	83.00	8.72	1	83.0	723.8	☐

Lighting

No	Type	Category	No. of Luminaires	Watts per Luminaire	Power [W]	Control Type	No.of Ctrl pts	
In Zone: ROOM A								
In Space: ROOM A								
1	LED	General Lighting	2	28	56	Manual On/Off	1	☐
2	LED	General Lighting	2	10	20	Occupancy sensor without Daylighting	1	☐
3	LED	Exit Sign	1	4	4	Security (continuous)	1	☐
4	LED	General Lighting	1	20	20	Manual On/Off	1	☐
In Zone: ROOM A-ADA								
In Space: ROOM A-ADA								
1	LED	General Lighting	2	10	20	Occupancy sensor without Daylighting	1	☐
2	LED	General Lighting	1	28	28	Manual On/Off	1	☐
3	LED	Exit Sign	1	4	4	Security (continuous)	1	☐
4	LED	General Lighting	1	20	20	Occupancy sensor without Daylighting	1	☐
In Zone: ROOM A-SHORT								
In Space: ROOM A-SHORT								
1	LED	General Lighting	2	28	56	Manual On/Off	1	☐
2	LED	General Lighting	2	10	20	Occupancy sensor with Daylighting On/Off	1	☐
3	LED	Exit Sign	1	4	4	Security (continuous)	1	☐
4	LED	General Lighting	1	20	20	Manual On/Off	1	☐
In Zone: ROOM B								
In Space: ROOM B								
1	LED	General Lighting	2	28	56	Manual On/Off	1	☐
2	LED	General Lighting	2	10	20	Occupancy sensor without Daylighting	1	☐
3	LED	Exit Sign	1	4	4	Security (continuous)	1	☐
4	LED	General Lighting	1	20	20	Manual On/Off	1	☐
In Zone: ROOM C								
In Space: ROOM C								
1	LED	General Lighting	2	28	56	Manual On/Off	1	☐
2	LED	General Lighting	2	10	20	Occupancy sensor without Daylighting	1	☐
3	LED	Exit Sign	1	4	4	Security (continuous)	1	☐
4	LED	General Lighting	1	20	20	Manual On/Off	1	☐
In Zone: ROOM C-ADA								
In Space: ROOM C-ADA								
1	LED	General Lighting	2	10	20	Occupancy sensor without Daylighting	1	☐
2	LED	General Lighting	1	28	28	Manual On/Off	1	☐

3	LED	Exit Sign	1	4	4	Security (continuous)	1	☐
4	LED	General Lighting	1	20	20	Manual On/Off	1	☐
In Zone: ROOM C-SHORT								
In Space: ROOM C-SHORT								
1	LED	General Lighting	2	28	56	Manual On/Off	1	☐
2	LED	General Lighting	2	10	20	Occupancy sensor without Daylighting	1	☐
3	LED	Exit Sign	1	4	4	Security (continuous)	1	☐
4	LED	General Lighting	1	20	20	Manual On/Off	1	☐
In Zone: FITNESS								
In Space: FITNESS								
1	LED	General Lighting	1	10	10	Occupancy sensor without Daylighting	1	☐
2	LED	General Lighting	5	28	140	Programmable timer without Daylighting	1	☐
In Zone: BREAKROOM & LOBBY								
In Space: LOBBY								
1	LED	General Lighting	9	28	252	Occupancy sensor without Daylighting	1	☐
2	LED	Exit Sign	1	4	4	Security (continuous)	1	☐
In Space: BACK OFFICE								
1	LED	General Lighting	1	28	28	Programmable timer without Daylighting	1	☐
In Space: BREAKFAST SEATTING								
1	LED	General Lighting	7	28	196	Occupancy sensor without Daylighting	1	☐
2	LED	Exit Sign	1	4	4	Security (continuous)	1	☐
In Space: COFFEE AREA								
1	LED	General Lighting	1	28	28	Programmable timer without Daylighting	1	☐
In Space: PREP. ROOM								
1	LED	General Lighting	2	28	56	Programmable timer without Daylighting	1	☐
In Space: UNISEX BATHROOM								
1	LED	General Lighting	1	10	10	Occupancy sensor without Daylighting	1	☐
In Zone: JAN. STG.								
In Space: JAN. STG.								
1	LED	General Lighting	1	24	24	Manual On/Off	1	☐

Walls (Walls will be rotated clockwise by building rotation value)

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Orientation	Cond-uctance [Btu/h.sf.F]	Heat Capacity [Btu/sf.F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu]	
In Zone:	**ROOM A**											
1	SW WALL	CMU Wall	24.33	8.72	1	212.2	East-SouthEast	0.1510	14.090	73.75	6.6	☐
2	NW WALL	Wood Stud Wall	12.20	8.72	1	106.4	South-SouthWest	0.0640			15.6	☐
In Zone:	**ROOM A-ADA**											
1	SW WALL	CMU Wall	24.33	8.72	1	212.2	East-SouthEast	0.1510	14.090	73.75	6.6	☐
2	NW WALL	Wood Stud Wall	12.20	8.72	1	106.4	South-SouthWest	0.0640			15.6	☐
In Zone:	**ROOM A-SHORT**											
1	SW WALL	CMU Wall	16.40	8.72	1	143.0	East-SouthEast	0.1510	14.090	73.75	6.6	☐
2	SE WALL	Wood Stud Wall	12.20	8.72	1	106.4	North-NorthEast	0.0640			15.6	☐
In Zone:	**ROOM B**											
1	SW WALL	CMU Wall	24.33	8.72	1	212.2	East-SouthEast	0.1510	14.090	73.75	6.6	☐
2	SE WALL	Wood Stud Wall	12.20	8.72	1	106.4	North-NorthEast	0.0640			15.6	☐
In Zone:	**ROOM C**											
1	SW WALL	CMU Wall	24.33	8.72	1	212.2	East-SouthEast	0.1510	14.090	73.75	6.6	☐
2	NW WALL	Wood Stud Wall	12.40	8.72	1	108.1	South-SouthWest	0.0640			15.6	☐
In Zone:	**ROOM C-ADA**											
1	NW WALL	Wood Stud Wall	12.10	8.72	1	105.5	South-SouthWest	0.0640			15.6	☐
In Zone:	**ROOM C-SHORT**											
1	SW WALL	CMU Wall	16.40	8.72	1	143.0	East-SouthEast	0.1510	14.090	73.75	6.6	☐
2	SE WALL	Wood Stud Wall	12.40	8.72	1	108.1	North-NorthEast	0.0640			15.6	☐
In Zone:	**FITNESS**											
1	SE WALL	Wood Stud Wall	12.08	8.72	1	105.4	North-NorthEast	0.0640			15.6	☐
In Zone:	**BREAKROOM & LOBBY**											

1	NE WALL	CMU Wall	48.67	8.72	1	424.4	West-North West	0.1510	14.090	73.75	6.6	☐
2	NW WALL	Wood Stud Wall	24.50	8.72	1	213.6	South-SouthWest	0.0640			15.6	☐
3	SE WALL	Wood Stud Wall	24.50	8.72	1	213.6	North-NorthEast	0.0640			15.6	☐
In Zone:	**JAN. STG.**											
1	SW WALL	CMU Wall	7.92	8.72	1	69.1	East-SouthEast	0.1510	14.090	73.75	6.6	☐

Windows (Windows will be rotated clockwise by building rotation value)

No	Description	Orientation	Shaded	U [Btu/hr sf F]	SHGC	Vis.Tra	W [ft]	H (Effec) [ft]	Multiplier	Total Area [sf]	
In Zone: BREAKROOM & LOBBY											
In Wall: NE WALL											
1	WIN 3	West-NorthWest	No	0.5000	0.25	0.76	1.67	3.50	1	5.8	☐
In Wall: NW WALL											
1	WIN 2	South-SouthWest	No	0.5000	0.25	0.76	20.00	8.00	1	160.0	☐
In Wall: SE WALL											
1	WIN 1	North-NorthEast	No	0.5000	0.25	0.76	4.00	4.00	2	32.0	☐
In Zone: FITNESS											
In Wall: SE WALL											
1	WIN 1	North-NorthEast	No	0.5000	0.25	0.76	4.00	4.00	1	16.0	☐
In Zone: ROOM A											
In Wall: NW WALL											
1	WIN 1	South-SouthWest	No	0.5000	0.25	0.76	4.00	4.00	1	16.0	☐
In Zone: ROOM A-ADA											
In Wall: NW WALL											
1	WIN 1	South-SouthWest	No	0.5000	0.25	0.76	4.00	4.00	1	16.0	☐
In Zone: ROOM A-SHORT											
In Wall: SE WALL											
1	WIN 1	North-NorthEast	No	0.5000	0.25	0.76	4.00	4.00	1	16.0	☐
In Zone: ROOM B											
In Wall: SE WALL											
1	WIN 1	North-NorthEast	No	0.5000	0.25	0.76	4.00	4.00	1	16.0	☐
In Zone: ROOM C											
In Wall: NW WALL											
1	WIN 1	South-SouthWest	No	0.5000	0.25	0.76	4.00	4.00	1	16.0	☐
In Zone: ROOM C-ADA											
In Wall: NW WALL											
1	WIN 1	South-SouthWest	No	0.5000	0.25	0.76	4.00	4.00	1	16.0	☐
In Zone: ROOM C-SHORT											
In Wall: SE WALL											
1	WIN 1	North-NorthEast	No	0.5000	0.25	0.76	4.00	4.00	1	16.0	☐

Doors

No	Description	Type	Shade?	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond. [Btu/h.sf.F]	Dens. [lb/cf]	Ht Cap. [Btu/sf.F]	R [h.sf.F/Btu]	
In Zone: ROOM A												
In Wall: NW WALL												
1	DOOR 1	Door	No	3.50	7.00	1	24.5	0.6100	0.00	0.00	1.64	☐
In Zone: ROOM A-ADA												
In Wall: NW WALL												
1	DOOR 1	Door	No	3.50	7.00	1	24.5	0.6100	0.00	0.00	1.64	☐
In Zone: ROOM A-SHORT												
In Wall: SE WALL												
1	DOOR 1	Door	No	3.50	7.00	1	24.5	0.6100	0.00	0.00	1.64	☐
In Zone: ROOM B												
In Wall: SE WALL												
1	DOOR 1	Door	No	3.50	7.00	1	24.5	0.6100	0.00	0.00	1.64	☐
In Zone: ROOM C												
In Wall: NW WALL												
1	DOOR 1	Door	No	3.50	7.00	1	24.5	0.6100	0.00	0.00	1.64	☐
In Zone: ROOM C-ADA												
In Wall: NW WALL												
1	DOOR 1	Door	No	3.50	7.00	1	24.5	0.6100	0.00	0.00	1.64	☐
In Zone: ROOM C-SHORT												
In Wall: SE WALL												
1	DOOR 1	Door	No	3.50	7.00	1	24.5	0.6100	0.00	0.00	1.64	☐
In Zone: FITNESS												
In Wall: SE WALL												
1	DOOR 1	Door	No	3.50	7.00	1	24.5	0.6100	0.00	0.00	1.64	☐
In Zone: BREAKROOM & LOBBY												
In Wall: SE WALL												
1	DOOR 1	Door	No	3.50	7.00	1	24.5	0.6100	0.00	0.00	1.64	☐
In Zone: JAN. STG.												
In Wall: SW WALL												
1	DOOR 1	Door	No	3.50	7.00	1	24.5	0.6100	0.00	0.00	1.64	☐

Roofs

No	Description	Type	Width [ft]	H (Effec) [ft]	Multi plier	Area [sf]	Tilt [deg]	Cond. [Btu/h.Sf. F]	Heat Cap [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu	
In Zone: ROOM A												
1	ROOF	Roof	265.00	1.00	1	265.0	27.00	0.0270			37.0	☐
In Zone: ROOM A-SHORT												
1	ROOF	Roof	176.00	1.00	1	176.0	27.00	0.0270			37.0	☐
In Zone: ROOM B												
1	ROOF	Roof	265.00	1.00	1	265.0	27.00	0.0270			37.0	☐
In Zone: ROOM C												
1	ROOF	Roof	265.00	1.00	1	265.0	27.00	0.0270			37.0	☐
In Zone: ROOM C-SHORT												
1	ROOF	Roof	180.00	1.00	1	180.0	27.00	0.0270			37.0	☐
In Zone: JAN. STG.												
1	ROOF	Roof	7.91	10.50	1	83.1	27.00	0.0270			37.0	☐

Skylights

No	Description	Type	U [Btu/hr sf F]	SHGC	Vis.Trans	W [ft]	H (Effec) [ft]	Multi-plier	Area [Sf]	Total Area [Sf]	
In Zone:											
In Roof:											☐

Floors

No	Description	Type	Width [ft]	H (Effec) [ft]	Multiplier	Area [sf]	Cond. [Btu/h.sf.F	Heat Cap. [Btu/sf. F]	Dens. [lb/cf]	R-Value [h.sf.F/Btu
In Zone: ROOM A										
1	FLOOR	Floor	24.33	12.20	1	296.8	0.0330			30.30 ☐
In Zone: ROOM A-ADA										
1	FLOOR	Floor	24.33	12.20	1	296.8	0.0330			30.30 ☐
In Zone: ROOM A-SHORT										
1	FLOOR	Floor	16.40	12.20	1	200.1	0.0330			30.30 ☐
In Zone: ROOM B										
1	FLOOR	Floor	24.33	12.20	1	296.8	0.0330			30.30 ☐
In Zone: ROOM C										
1	FLOOR	Floor	24.33	12.40	1	301.7	0.0330			30.30 ☐
In Zone: ROOM C-ADA										
1	FLOOR	Floor	24.33	12.10	1	294.4	0.0330			30.30 ☐
In Zone: ROOM C-SHORT										
1	FLOOR	Floor	16.40	12.40	1	203.4	0.0330			30.30 ☐
In Zone: FITNESS										
1	FLOOR	Floor	21.77	12.40	1	269.9	0.0330			30.30 ☐
In Zone: BREAKROOM & LOBBY										
1	FLOOR	Floor	44.33	24.50	1	1086.1	0.0330			30.30 ☐
In Zone: JAN. STG.										
1	FLOOR	Floor	7.91	10.50	1	83.1	0.0330			30.30 ☐

Systems

ROOM A — **ROOM A - PTAC 1** — **Constant Volume Packaged Terminal System** — **No. Of Units 28**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	11600.00	11.60		☐
2	Heating System	10400.00	3.40		☐
3	Air Handling System -Supply	341.00	0.30		☐

ROOM A-ADA — **ROOM A-ADA - PTAC 1** — **Constant Volume Packaged Terminal System** — **No. Of Units 2**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	11600.00	11.60		☐
2	Heating System	10400.00	3.40		☐
3	Air Handling System -Supply	341.00	0.30		☐

ROOM A-SHORT — **ROOM A-SHORT - PTAC 1** — **Constant Volume Packaged Terminal System** — **No. Of Units 2**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	11600.00	11.60		☐
2	Heating System	10400.00	3.40		☐
3	Air Handling System -Supply	341.00	0.30		☐

ROOM B — **ROOM B - PTAC 1** — **Constant Volume Packaged Terminal System** — **No. Of Units 12**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	11600.00	11.60		☐
2	Heating System	10400.00	3.40		☐
3	Air Handling System -Supply	341.00	0.30		☐

ROOM C — **ROOM C - PTAC 1** — **Constant Volume Packaged Terminal System** — **No. Of Units 43**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	11600.00	11.60		☐
2	Heating System	10400.00	3.40		☐
3	Air Handling System -Supply	341.00	0.30		☐

ROOM C-ADA — **ROOM C-ADA - PTAC 1** — **Constant Volume Packaged Terminal System** — **No. Of Units 4**

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	11600.00	11.60		☐
2	Heating System	10400.00	3.40		☐
3	Air Handling System -Supply	341.00	0.30		☐

ROOM C-SHORT	ROOM C-SHORT - PTAC 1	Constant Volume Packaged Terminal System	No. Of Units 4

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	11600.00	11.60		☐
2	Heating System	10400.00	3.40		☐
3	Air Handling System -Supply	341.00	0.30		☐

FITNESS	FITNESS - PTAC 2	Constant Volume Packaged Terminal System	No. Of Units 1

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	11600.00	11.60		☐
2	Heating System	10400.00	3.40		☐
3	Air Handling System -Supply	341.00	0.30		☐

BREAKROOM & LOBBY	BREAKROOM & LOBBY - AHU-1	Constant Volume Air Cooled Split System < 65000 Btu/hr	No. Of Units 1

Component	Category	Capacity	Efficiency	IPLV	
1	Cooling System	46500.00	16.00	8.00	☐
2	Heating System	44500.00	9.60		☐
3	Air Handling System -Supply	1600.00	0.35		☐
4	Air Distribution System (Sup)		6.00		☐

Plant

Equipment	Category	Size	Inst.NdEff.	IPLV

Water Heaters

W-Heater Description	Capacity	Cap.Unit	I/P Rt.	Efficiency	Loss	
1 Gas Storage water heater (4 units)	100	[Gal]	199900 [Btu/h]	0.9700 [Ef/Et]	#######[Btu/h]	☐

Ext-Lighting

	Description	Category	No. of Lumin-aires	Watts per Lumin-aire	Area/Len/No [sf/ft/No]	Control Type	Wattage [W]	
1	Wall Light E	Walk way less than 10 feet wide	127	10	1987.00	Astronomical Time	#####	☐
2	Emergency Light X	Internally illuminated exit signs	14	4	14.00	Other Independent	56.00	☐
3	Down Light C2	Entry Canopies	9	17	690.00	Photo Sensor contr	#####	☐

Piping

No	Type	Operating Temp [F]	Insulation Conductivity [Btu-in/h.sf.F]	Nomonal pipe Diameter [in]	Insulation Thickness [in]	Is Runout?	
1	Domestic and Service Hot Water Systems	120.00	0.28	1.50	1.50	No	☐

Fenestration Used

Name	Glass Type	No. of Panes	Glass Conductance [Btu/h.sf.F]	SHGC	VLT
Window	User Defined	1	0.5000	0.2500	0.7600

Materials Used

Mat No	Acronym	Description	Only R-Value Used	RValue [h.sf.F/Btu]	Thick [ft]	Cond-uctivity [Btu/h.ft.F	Density [lb/cf]	Sp. Heat [Btu/lb.F]	
8	Matl8	4 in. Face brick	No	0.4325	0.3330	0.7700	125.00	0.2200	☐
9	Matl9	Air space resistance	Yes	0.9100					☐
50	Matl50	6 in. Lightweight concrete	No	5.0000	0.5000	0.1000	40.00	0.2000	☐
7	Matl7	Gyp or Plaster Finish	No	0.1738	0.0417	0.2400	78.00	0.2600	☐

Constructs Used

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1060	Wood Stud Wall	Yes	Yes	0.06			15.6	☐

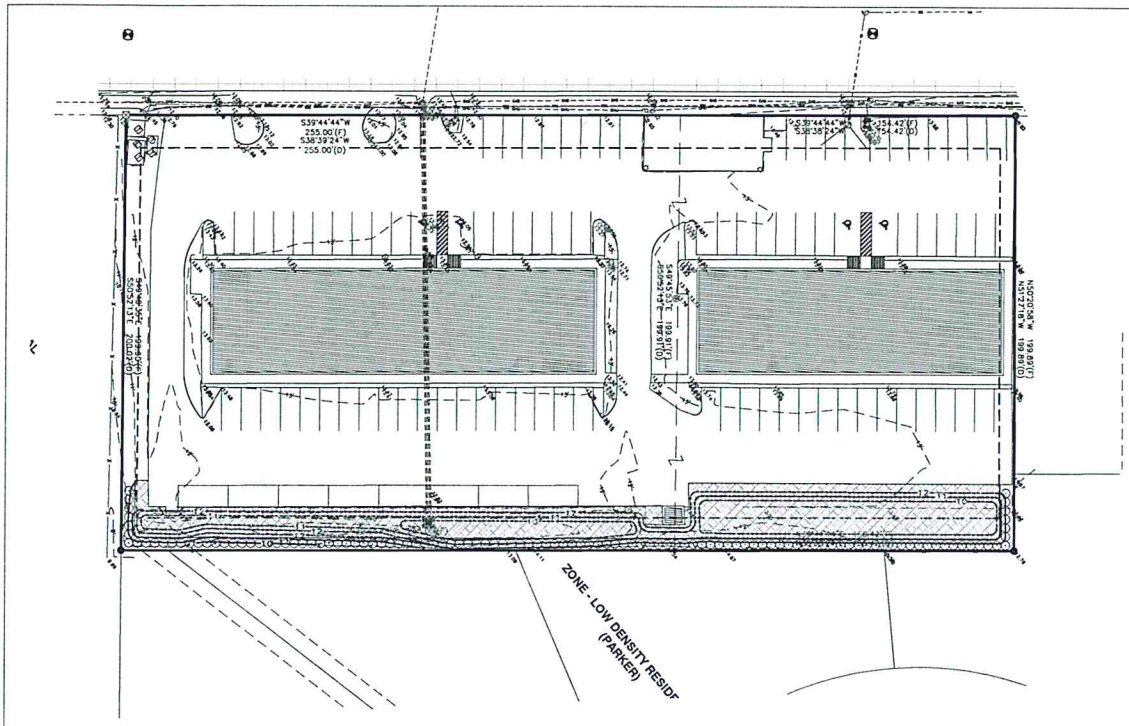
No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1061	Roof	Yes	Yes	0.03			37.0	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1062	Floor	Yes	Yes	0.03			30.3	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1063	Door	Yes	Yes	0.61			1.6	☐

No	Name	Simple Construct	Massless Construct	Conductance [Btu/h.sf.F]	Heat Cap [Btu/sf.F]	Density [lb/cf]	RValue [h.sf.F/Btu]	
1064	CMU Wall	No	No	0.15	14.09	73.75	6.6	☐

Layer	Material No.	Material	Thickness [ft]	Framing Factor	
1	8	4 in. Face brick	0.3330	0.000	☐
2	9	Air space resistance		0.000	☐
3	50	6 in. Lightweight concrete	0.5108	0.000	☐
4	7	Gyp or Plaster Finish	0.0417	0.000	☐



GRAPHIC SCALE
0 10 20 40 60 80
SCALE IN FEET

LANDSCAPE LEGEND

GROUNDCOVER
± 500s S.F. INCLUDING 10% FOR WASTE
CENTIPEDE SOD
EREMOCHLOA OPHIUROIDES

SHRUBS
114 SWEET VIBURNUM
VIBURNUM ODORATISSIMUM
3 GAL. @ O.C.

LANDSCAPE NOTES:
1. LOCATE ALL UTILITIES BEFORE DIGGING. PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
2. ELIMINATE EXISTING VEGETATION IN AREAS TO BE PLANTED. SPRAY WITH NON-SELECTIVE HERBICIDE AT MANUFACTURER'S RECOMMENDED RATE TWICE IN 14 DAYS.
3. TOP DRESS ALL AREAS TO RECEIVE PLANTINGS WITH 2" FINISHED MUSHROOM COMPOST PRIOR TO PLANTING.
4. ALL PLANT MATERIAL: FLORIDA #1 OR BETTER.
5. FERTILIZE ALL PLANTINGS WITH OSMOCOTE OR OTHER APPROVED SLOW RELEASE FERTILIZER AT MANUFACTURER'S RECOMMENDED RATE BEFORE MULCHING.
6. APPLY PRIEN OR OTHER APPROVED PRE-EMERGENT HERBICIDE TO ALL PLANTING AREAS BEFORE MULCHING.
7. MULCH ALL AREAS OF TREE, SHRUB AND GROUNDCOVER MASS PLANTINGS WITH 3" PINESTRAW MULCH.
8. QUANTITIES SHOWN IN PLANT LIST ARE FOR CONTRACTOR'S CONVENIENCE. VERIFY ALL PLANT QUANTITES SHOWN ON PLAN AND IN PLANT LIST.
9. B&B MATERIAL MAY BE SUBSTITUTED FOR CONTAINER GROWN MATERIAL PROVIDED IT EXCEEDS THE MINIMUM SIZES NOTED.
10. SEED ALL DISTURBED AREAS WITH SPECIES SHOWN ON PLAN.
11. WARRANT ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE.

IRRIGATION NOTES:
1. AUTOMATIC IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS.
2. CONTRACTOR RESPONSIBLE FOR LOCATING AND SUPPLYING ELECTRICAL POWER TO CONTROLLER.
3. CONTRACTOR TO PROVIDE AND PAY FEES FOR SEPARATE IRRIGATION METER.
4. PROVIDE BACKFLOW PREVENTION PER CITY REQUIREMENTS.
5. PROVIDE RAIN SHUT OFF DEVICE PER FLA. STATE LAW.

SOURCE DATA FOR SITE PLAN PROVIDED BY MCKEE, CARROLL ENGINEERING, INC.

23016-LABRISA

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LABRISA LANDSCAPE

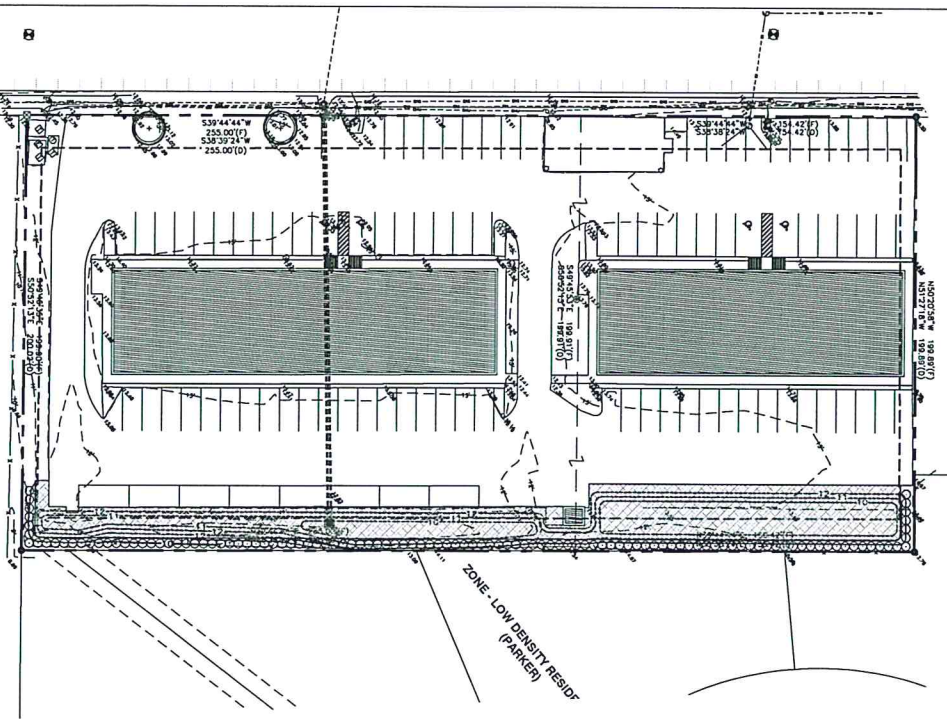
HIGHWAY 98
PARKER, FL

DATE	ISSUE/REVISION
02/03/23	PERMIT DRAWING

LANDSCAPE PLAN SHEET NUMBER

LP1

ONE OF ONE



LANDSCAPE NOTES:

1. LOCATE ALL UTILITIES BEFORE DIGGING. PROTECT ALL UTILITIES FROM DAMAGE DURING CONSTRUCTION.
2. ELIMINATE EXISTING VEGETATION IN AREAS TO BE PLANTED. SPRAY WITH NON-SELECTIVE HERBICIDE AT MANUFACTURER'S RECOMMENDED RATE TWICE IN 14 DAYS.
3. TOP DRESS ALL AREAS TO RECEIVE PLANTING WITH 2" FINISHED MUSHROOM COMPOST PRIOR TO PLANTING.
4. ALL PLANT MATERIAL FLORIDA #1 OR BETTER.
5. FERTILIZE ALL PLANTINGS WITH OSMOCOTE OR OTHER APPROVED SLOW RELEASE FERTILIZER AT MANUFACTURER'S RECOMMENDED RATE BEFORE MULCHING.
6. APPLY PREEN OR OTHER APPROVED PRE-EMERGENT HERBICIDE TO ALL PLANTING AREAS BEFORE MULCHING.
7. MULCH ALL AREAS OF TREE, SHRUB AND GROUNDCOVER MASS PLANTINGS WITH 3" PINESTRAW MULCH.
8. QUANTITIES SHOWN IN PLANT LIST ARE FOR CONTRACTOR'S CONVENIENCE. VERIFY ALL PLANT QUANTITIES SHOWN ON PLAN AND IN PLANT LIST.
9. B&B MATERIAL MAY BE SUBSTITUTED FOR CONTAINER GROWN MATERIAL PROVIDED IT EXCEEDS THE MINIMUM SIZES NOTED.
10. SOD ALL DISTURBED AREAS WITH SPECIES SHOWN ON PLAN.
11. WARRANTY ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE.
12. SEE SHEET LP2 FOR INSTALLATION DETAILS.

IRRIGATION NOTES:

1. AUTOMATIC IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS.
2. CONTRACTOR RESPONSIBLE FOR LOCATING AND SUPPLYING ELECTRICAL POWER TO CONTROLLER.
3. CONTRACTOR TO PROVIDE AND PAY FEES FOR SEPARATE IRRIGATION METER.
4. PROVIDE BACKFLOW PREVENTION PER CITY REQUIREMENTS.
5. PROVIDE RAIN SHUT OFF DEVICE PER FLA STATE LAW.

LANDSCAPE LEGEND

GROUNDCOVER

8,500± S.F. INCLUDING 10% FOR WASTE
CENTIPEDE SOD
EREMOCHLOA OPHIUROIDES

SHRUBS

114 SWEET VIBURNUM
VIBURNUM ODORATISSIMUM
3 GAL. @ O.C.

2 NATCHEZ CRAPE MYRTLE
LAGERSTROEMIA INDICA 'NATCHEZ'
30 GAL. MIN. 3 STEMS @ 1" CAL.

SOURCE DATA FOR SITE PLAN PROVIDED BY: MICHEL CARROLL ENGINEERING, INC.

23016-LABPSA

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LANDSCAPE ARCHITECT

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LABRISA LANDSCAPE

HIGHWAY 98
PARKER, FL

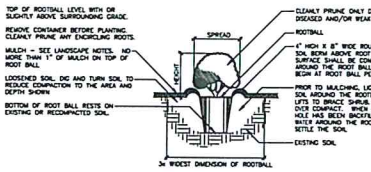
DATE	ISSUE/REVISION
02/03/23	PERMIT DRAWING
03/29/23	PER COMMENTS

REGISTERED LANDSCAPE ARCHITECT
Alan D. Holt
STATE OF FLORIDA
MARCH 29, 2023

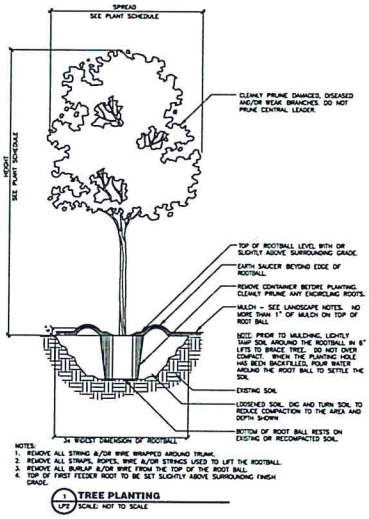
LANDSCAPE PLAN
SHEET NUMBER

LP1

ONE OF FOUR

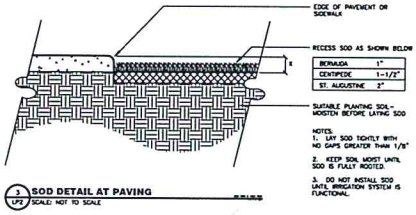


1 LP2 **PLANTING DETAIL FOR SHRUBS**
SCALE: NOT TO SCALE



NOTES:
1. REMOVE ALL STRING &/OR WIRE WRAPPED AROUND TRUNK.
2. REMOVE ALL STRAPS, ROPES, WIRE &/OR STRINGS USED TO LIFT THE ROOTBALL.
3. REMOVE ALL BURLAP &/OR WIRE FROM THE TOP OF THE ROOT BALL.
4. TOP OF FIRST FEEDER ROOT TO BE SET SLIGHTLY ABOVE SURROUNDING FINISH GRADE.

1 LP2 **TREE PLANTING**
SCALE: NOT TO SCALE



BERMUDA	1"
CENTIPEDE	1-1/2"
ST. AUGUSTINE	2"

NOTES:
1. LAY SOD TIGHTLY WITH NO GAPS GREATER THAN 1/8"
2. KEEP SOIL MOIST UNTIL SOD IS FULLY ROOTED.
3. DO NOT INSTALL SOD UNTIL IRRIGATION SYSTEM IS FUNCTIONAL.

3 LP2 **SOD DETAIL AT PAVING**
SCALE: NOT TO SCALE

SOURCE DATA FOR SITE PLAN PROVIDED BY HOWE, CARROLL ENGINEERING, INC.

23018-LABRISA

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HIGHWAY 98
PARKER, FL

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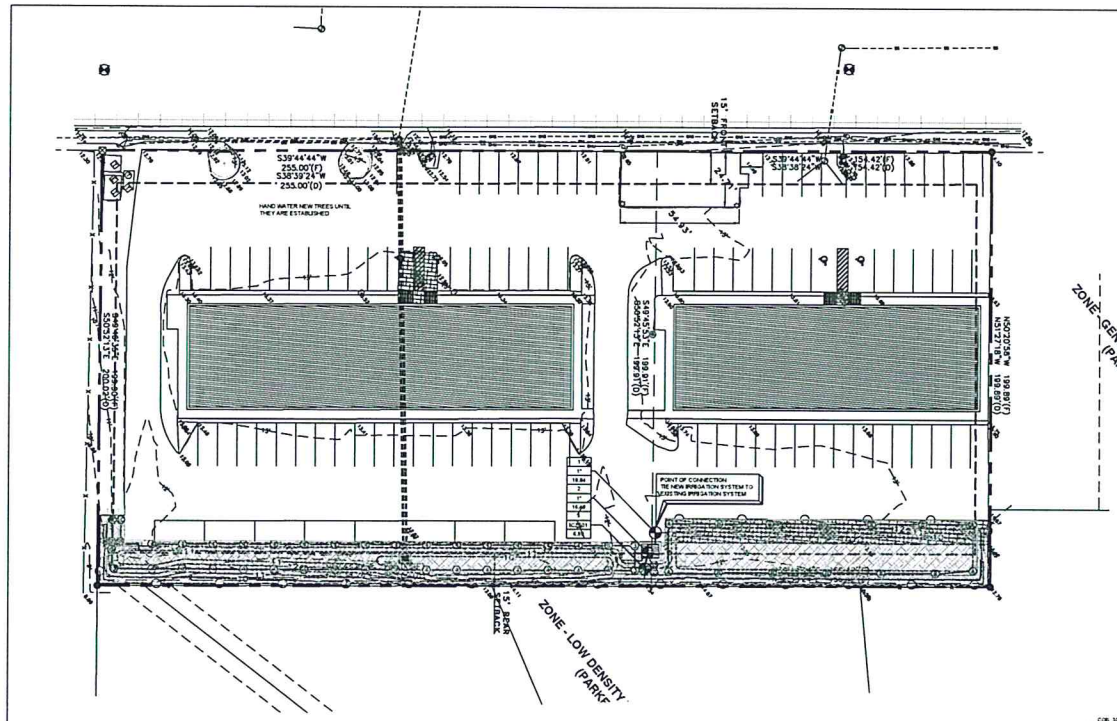


MARCH 28, 2023

LANDSCAPE PLAN SHEET NUMBER

LP2

THREE OF THREE



GRAPHIC SCALE
0 10 20 40 60 80
SCALE IN FEET

13. COIL 10' OF BLACK WIRE IN VALVE BOX.
13. ADJUST HEADS TO MAXIMIZE COVERAGE AND MINIMIZE OVERSPRAY.
14. SEE SHEET IP2 FOR INSTALLATION DETAILS.

IRRIGATION SCHEDULE

QUANTITY	KEY		MODEL (HUNTER UNLESS OTHERWISE NOTED)	GALLONS PER MINUTE
4		①	PROS-04-PRS40-CV-HP1000-90 1½" QUARTER	8.21 @ 40 PSI
32		④	PROS-04-PRS40-CV-HP1000-210 1½" HALF	8.42 @ 40 PSI
1		⑤	PROS-04-PRS40-CV-HPRES515 5' X 15'	8.21 @ 40 PSI
1		⑥	PROS-04-PRS40-CV-HPL2515 5' X 15'	8.21 @ 40 PSI
4		⑦	PROS-04-PRS40-CV-HP3530 3' X 30'	8.44 @ 40 PSI
4		⑧	PROS-04-PRS30-CV-HP1000-90 2½" QUARTER	8.76 @ 30 PSI
10		⑨	PROS-04-PRS30-CV-HP1000-210 2½" HALF	1.38 @ 30 PSI
13		1"	1" ELECTRIC REMOTE CONTROL VALVE PGV-100G-S	
1		ICZ101	1" DRIP VALVE KIT	
1			HUNTER PRO C	
1			WEATHER SENSOR	
1			FLUSH VALVE	
			RAINBIRD 670-06-12 INLINE DRIP SPACE LINE 4" OFF CURB, 12" OFF BUILDING 18" O.C.	

SOURCE DATA FOR SITE PLAN PROVIDED BY HOWE, CARROLL ENGINEERING, INC.

23016-LABRSA

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LABRISA LANDSCAPE

HIGHWAY 98
PARKER, FL

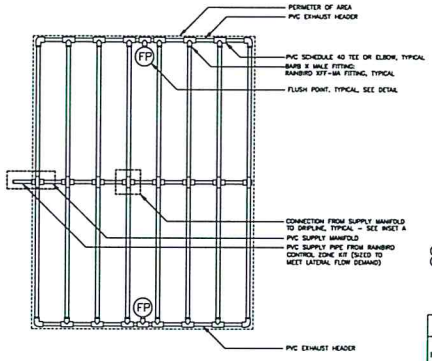
DATE	ISSUE/REVISION
01/25/23	PER COMMENTS

LICENSED LANDSCAPE ARCHITECT
Alan D. Holt
Florida
No. 1659
MARCH 24, 2023

IRRIGATION PLAN
SHEET NUMBER

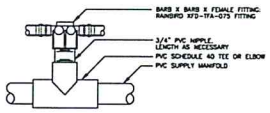
IP1

THREE OF FOUR



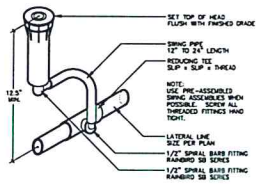
NOTES:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS ON RAIN BIRD WEB SITE (WWW.RAINBIRD.COM) FOR SUGGESTED SPACING.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING SHOWN IN THE ACCOMPANYING TABLE.
3. WHEN USING 1"MIN INSERT FITTINGS WITH DESIGN PRESSURE OVER 50PSI, IT IS RECOMMENDED THAT STAINLESS STEEL CLAMPS BE INSTALLED ON EACH FITTING.

1 XFD ON-SURFACE DRIPLINE CENTER FEED LAYOUT
SCALE: N.T.S.

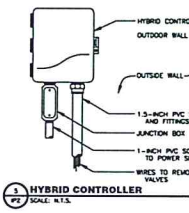


INSET A

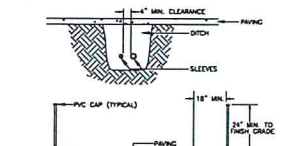
XFD Dripline Maximum Lateral Lengths (Feet)						
	12" Spacing		18" Spacing		24" Spacing	
Inlet Pressure psi	Nominal Flow (gph)		Nominal Flow (gph)		Nominal Flow (gph)	
	0.6	0.9	0.6	0.9	0.6	0.9
15	273	155	314	250	424	322
20	316	159	353	294	508	368
30	360	230	413	350	586	414
40	395	255	465	402	652	474
50	417	285	528	420	729	488
60	460	290	596	455	780	514



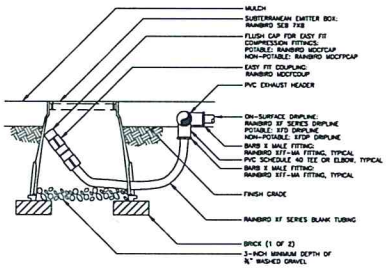
2 SPRAYHEAD DETAIL
SCALE: 1/4"=1"



3 HYBRID CONTROLLER
SCALE: N.T.S.

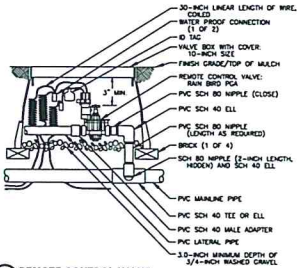


2 PIPE & WIRE TRENCHING
SCALE: N.T.S.

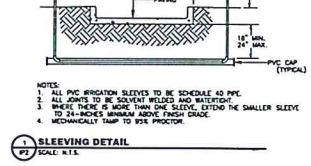


4 FLUSH POINT DETAIL
SCALE: N.T.S.

NOTE:
1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.



4 REMOTE CONTROL VALVE
SCALE: N.T.S.



NOTES:
1. ALL PVC IRRIGATION SLEEVES TO BE SCHEDULE 40 PIPE.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISH GRADE.
4. MECHANICALLY TAMP TO 95% PROCTOR.

1 SLEEVING DETAIL
SCALE: N.T.S.

SOURCE DATA FOR SITE PLAN PROVIDED BY HOWEL CARROLL ENGINEERING, INC.

23018-LABRISA

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LABRISA LANDSCAPE

HIGHWAY 98
PARKER, FL

DATE	ISSUE/REVISION
01/19/23	PER COMMENTS

REGISTERED LANDSCAPE ARCHITECT ALAN D. HOLT STATE OF FLORIDA
WHO IS 2023

IRRIGATION DETAILS
SHEET NUMBER

IP1

FOUR OF FOUR

MECHANICAL LEGENDS

	FLOW ARROW
	FLEXIBLE CONNECTOR
	DOOR UNDERCUT (WHERE SHOWN)
	ROUND DUCT SECTION/SUPPLY
	ROUND DUCT SECTION/RETURN
	RETURN / EXHAUST DUCT TURNING DN
	RETURN / EXHAUST DUCT TURNING UP
	SUPPLY / OUTSIDE DUCT TURNING DN
	SUPPLY / OUTSIDE DUCT TURNING UP
	EXISTING DUCT
	FLEXIBLE DUCT CONNECTION
	DUCT ELBOW, TURNING VANES
	DUCT ELBOW, RADIUS
	DUCT ELBOW, MITERED
	DUCT TRANSITION RECTANGULAR TO RECTANGULAR
	DUCT TRANSITION RECTANGULAR TO ROUND
	VOLUME DAMPER - RECTANGULAR
	VOLUME DAMPER - ROUND
	CONTROL DAMPER
	SMOKE DETECTOR
	MECHANICAL THERMOSTAT
	RECTANGULAR SHEET METAL DUCT
	ROUND SHEET METAL DUCT
	FLEXIBLE AIR DUCT DUCT
	ACCESS PANEL/DRAW CEILABLE CEILING
	REFRIGERANT PIPING (LINE SET)
	3-WAY THRUW
	3-WAY THROW
	3-WAY OPPOSITE THROW
	3-WAY CORNER THROW
	3-WAY THROW
	RETURN AIR GRILL
	TAP CONNECTION - RECTANGULAR
	TAP CONNECTION - ROUND
	CONDENSATE DRAIN (WASTE LINE)
	CONDENSATE DRAIN (WASTE LINE)
	PIPE UP
	PIPE DOWN
	PIPE ELBOW
	PIPE REDUCTION
	PIPE CAP/BLIND
	BALL VALVE
	BUTTERFLY VALVE
	POINT OF CONNECTION TO NEW PIPE OR DUCTWORK
	POINT OF REMOVAL FOR DEMOLITION
	BACKDRAFT DAMPER

MECHANICAL ABBREVIATIONS

#	AMPERES	HE	HOSE BIB
AC	AIR CONDITIONING	HC	HEATING COIL
AD	ACCESS DOOR	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HR	HEIGHT
AHU	AIR HANDLING UNIT	LAT	LEAVING AIR TEMPERATURE
AP	ACCESS PANEL	LWT	LEAVING WATER TEMPERATURE
APPROX	APPROXIMATELY	LVT	LEAVING WATER TEMPERATURE
AS	AIR SEPARATOR	MAN	MANUFACTURER
BCD	BACKDRAFT DAMPER	MCA	MINIMUM CIRCUIT AMPACITY
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BTUD	BUTTERFLY DUCT	MOCP	MAXIMUM OVERLOAD PROTECTION
BVL	BUTTERFLY LOUVER	NTS	NOT TO SCALE
BTUH	BRITISH THERMAL UNITS PER HOUR	OA	OUTSIDE AIR
CC	CEILING CFM	PD	PRESSURE DROP
CD	CONDENSATE DRAIN	PSI	POUNDS PER SQUARE INCH
CFM	CUBIC FEET PER MINUTE	PVC	POLYVINYL CHLORIDE
COS	CEILING	R	RISE
d	DIAMETER	RA	RETURN AIR FROM AIR
D	DROP	RAG	RETURN AIR GRILLE
DB	DRY BULB	RH	RELATIVE HUMIDITY
DL	DIAMELINE	RLA	RATED LOAD AMPS
DN	DOWN	RTU	ROOFTOP UNIT
DI	DIRECT EXPANSION	SA	SUPPLY AIR
EA	EXHAUST AIR	SF	SUPPLY FAN
EAT	ENTERING AIR TEMPERATURE	SPEC	SPECIFICATION
EF	EXHAUST	SQFT	SQUARE FEET
ESP	EXTERNAL STATIC PRESSURE	TAB	TRANSFER AIR DUCT
F	DEGREES FAHRENHEIT	TEMP	TEMPERATURE
FD	FIRE DAMPER	TYP	TYPICAL
FL	FLOOR	VC	UNDERCUT
FLEX	FLEXIBLE	VG	UNDERGROUND
FPM	FEET PER MINUTE	VD	VOLUME DAMPER (MANUAL)
GALV	GALVANIZED	W	WATT

MECHANICAL SPECIFICATIONS

FOLLOWING IS, BRIEFLY THE INSTALL

DIAGRAMS PLATES and/or LABELS PROVIDE ENOUGH ELECTRICAL and WIRING PLATES, LABELS FOR PERMANENT MARKING ON ALL FACILITY EQUIPMENT, INDICATE THE NAME, NUMBER AND ELECTRICAL PANEL FOR FROM THE EQUIPMENT.

PIPING

PROVIDE PIPING DETAILS, HANGERS AND SUPPORTS AS PER CODES AS INDICATED ON DRAWINGS AND SPECIFICATIONS.

REFRIGERANT PIPING: REFRIGERANT PIPING SHALL BE INSULATED WITH 4" THICK FLEXIBLE ELASTOMERIC CLOSED CELL INSULATION. WHERE INSULATION EXPOSED TO ULTRA VIOLET RADIATION, SHALL BE PROTECTED WITH ONE COAT OF WATER BASED POLYURETHANE PAINT FOR PROTECTION FROM SUNLIGHT. CHEMICAL AND UV PROTECTION.

PIPING: CONDENSATE DRAIN PIPING: ALL CONDENSATE DRAIN LINES SHALL BE SCHEDULE 40 PVC WITH SOLVENT TYPE FITTINGS AND SOLVENT CEMENT. BENDS OVER DRAINLINES SHALL HAVE 2" FREEDOM TO THE BOTTOM SEAM WITH SUPER BUFFER. SUITABLE BUFFER SHALL BE PROVIDED ON FLOOR. HANGERS OR VERTICAL SUPPORTS, SUPPORT LOCATION MAY CAUSE PIPING ON SUSPENDED ENTIRE PIPE FREE TO FALL. LOCATE EQUIPMENT AND ACCESS OF DISCONNECTION AND PIPING TO PROVIDE MAINTENANCE. PIPING SHALL BE INSTALLED TO PROVIDE CLEARANCE FOR ALL PIPE AND DUCTWORK SHOWN ON PLANS AND CLEAR BOOKS DIMENSIONS. TRANSMISSION OF DUCTWORK PIPING ETC.

PROVIDE FLEXIBLE CONNECTIONS AT ALL UNIT SUPPLY AIR. ALL DUCTS SHALL BE FASTENED TO AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. PROVIDE AS PER PLANS.

AIR DISTRIBUTION DETAILS:

AIR DISTRIBUTION DETAILS SHALL BE PLANNED IN TEES AND SHALL BE SUBMITTED IF APPROVAL BEFORE UPGRADING. APPROVED TO SHALL APPLY AS LOW AND FINISH OF ALL AIR DISTRIBUTION DETAILS.

DUCTS:

DUCT WORK AND AIR DUCTS, EXHAUST FANS SHALL BE IN CONFORMANCE AND PROVIDED WITH CONSTRUCTION OF DUCTS AND ALL START DAMPER.

AIR TREATMENT SYSTEMS:

AIR HANDLER UNITS SHALL BE EQUIPPED WITH HEAVY AIR FILTER WITH MERV RATING AS PER PLANS AND SPECIFICATIONS. FILTER SHALL BE IN THE AIR HANDLER UNIT OR IN THE RETURN DUCT AS PER PLANS.

PACKAGED TERMINAL HEAT PUMP UNIT:

PACKAGE TERMINAL HEAT PUMPS SHALL BE AS PER THE SYSTEM SHALL BE MANUFACTURED TO PERFORM, COMPLIANT AND LABELED. REFER TO THE SCHEDULE FOR ALL UNIT SHALL BE PROGRAMMABLE THERMOSTATS AND SHALL BE LOCATED AS WATER HEAT PUMP SYSTEMS HEATING SHALL POINT PROVIDE TYPICAL CONFIGURATION AND PIPING AND PROVIDE ALL ACCESSORIES AS PER SYSTEM WITH MANUFACTURER'S SPECIFICATIONS. ACCESS, POINT PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR A COMPLETE OPERABLE SYSTEMS.

THE POWER SUPPLY FOR ELECTRICAL EQUIPMENT SHALL COMPLY WITH CURRENT EDITION OF NEC PROVISIONS IN THE LOCAL CODES AND ORDINANCES. WHERE SPECIFIED, EQUIPMENT SHALL BE LISTED AND LABELED BY NRTL. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT OR PLASTIC INSULATION SHALL BE RELIABLE WIRING.

HVAC CONTROLLER SHALL BE SCHEDULED AS PER MANUFACTURER'S SPECIFICATIONS AND ELECTRICAL CIRCUIT. LOCATE EQUIPMENT AND ACCESS TO DISCONNECTION AND PIPING TO PROVIDE MAINTENANCE AND SERVICE CLEARANCES (CLEARANCES).

HEAT SYSTEM HEAT PUMP:

HEAT SYSTEM HEAT PUMPS SHALL BE AS THERE, REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE PROGRAMMABLE THERMOSTATS AVAILABLE FOR HEATER. SINGLE STAGE POWER SUPPLY AND PLUGS WITH A FILTER. PROVIDE AS PER EXTENDED WARRANTY OF COMPRESSOR PARTS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR A COMPLETE OPERABLE SYSTEMS.

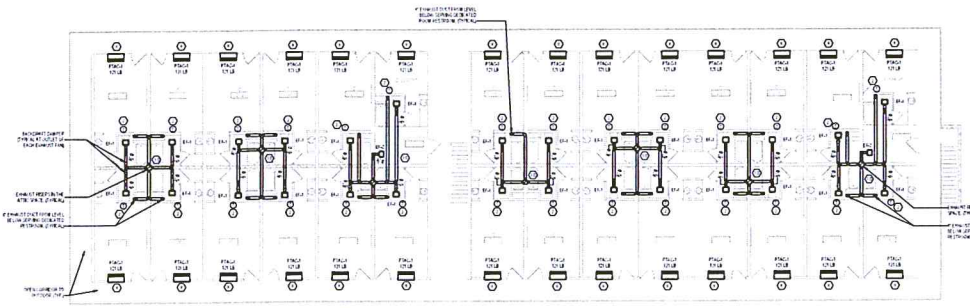
HVAC EQUIPMENT SHALL BE SCHEDULED AS PER MANUFACTURER'S SPECIFICATIONS AND ELECTRICAL CIRCUIT. LOCATE EQUIPMENT AND ACCESS TO DISCONNECTION AND PIPING TO PROVIDE MAINTENANCE AND SERVICE CLEARANCES (CLEARANCES).

TESTING, ADJUSTING AND BALANCING FOR HVAC:

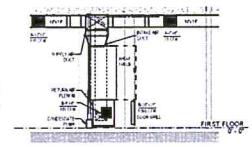
- PER CODE TESTING AND BALANCING PROCEDURES CONDUCTED BY THE CONTRACTOR AUTHORIZED BY THE NATIONAL STANDARDS OF TESTING, BALANCING OR AS PER STATE/LOCAL STANDARDS AS SPECIFIED. ADJUSTING AND BALANCING TO EVERY MECHANICAL SYSTEM AS PER THE SECTION.
- CONTRACTOR'S FIELD STATION SHALL CONSIST OF THE FOLLOWING AS A MINIMUM, INCLUDING ITEMS:
  - DUCTWORK FOR DUCTS, PIPES, AND EQUIPMENT CONNECTION INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY FOR THE PROCEDURES.
  - WITH TEST PROBES AND TESTING, BALANCING, WITH PLANE HOLES BROKEN FOR SAME PATTERN, AND THE AREAS ALLOWED TO EACH SUPPLY AND RETURN AIR OUTLET.
    - INSTALLING AIR BALANCE DEVICES THAT MAY BE REQUIRED ADDITIONALLY, BEFORE BALANCING, COVERING OF WORK DONE AND PROVIDING ACCESS TO SECTION AND EVALUATION.
- DURING EQUIPMENT AND INSTALLATION, PERFORM TESTING, ADJUSTING AND BALANCING AS SPECIFIED BELOW:
  - TEST AND ADJUST SYSTEMS FOR FAN RATE AND WATER FLOW RATES AS PER THE FOLLOWING TOLERANCES:
    - SUPPLY, RETURN AND EXHAUST SYSTEMS, +/- 10 PERCENT.
    - HEATING WATER FLOW RATES, PLUS OR MINUS 10 PERCENT.
    - CONDENSATE FLOW RATES, PLUS OR MINUS 10 PERCENT.
  - PREPARE A TESTING AND BALANCING REPORT THAT IS TO BE USED AS THE BASIS FOR ADJUSTMENTS AND FOR TESTING SYSTEMS AND BALANCED SYSTEMS.
    - INCLUDE A SYSTEM DIAGRAM SHOWING LOCATIONS OF THE POINTS WHERE READINGS WERE TAKEN FOR TESTING, BALANCING AND ADJUSTING.
    - INCLUDE A LIST OF EQUIPMENT USED FOR PROCEDURES, ALONG WITH PROOF OF CALIBRATION.

MECHANICAL NOTES

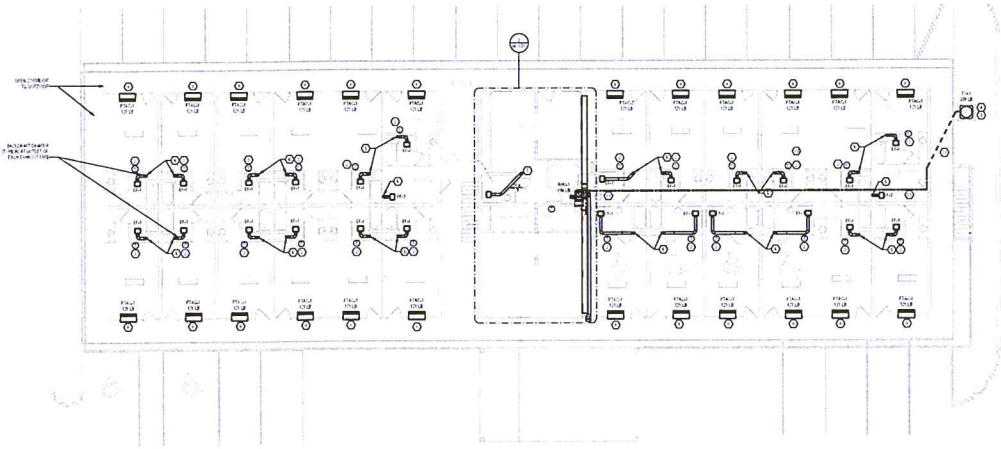
1. PROVIDE ACCESS PANELS (LOCATION, SIZE) AND CEILINGS REQUIRED FOR OPERATION, BALANCING INSPECTION AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT.
2. PROVIDE CLEAR ACCESS TO FIRE DAMPERS, SMOKE DAMPERS, AND FIRE/SMOKE DAMPERS.
3. THE SEC LOCATION WITHOUT ELECTRICAL REQUIREMENTS AND SERVICE CLEARANCES OF EQUIPMENTS (INSTALLED BY MECHANICAL SHALL BE COORDINATED WITH ALL OTHER TRADES.
4. ALL EQUIPMENT PIPING AND VALVES SHALL HAVE IDENTIFICATION LABELS AND TAGS PER SPECIFICATIONS. WHERE PIPE SHALL BE SUPPORTED TO ACTUAL OF CONDENSATE SHALL BE REMOVED WITH HEAVY DUTY INSULATED PLUMBER AS ACT FOR PROTECTION THROUGHOUT. CHEMICAL AND UV PROTECTION.
5. ALL BARE METAL IN PROJECTS SHALL BE PRIMED AND PAINTED TO PREVENT ANY RUST. BUILDING BUT NOT LIMITED TO FIELD PAINTING, THE SUPPORTS, ALL METAL HARDWARE, ETC.
6. PIPINGS AN ALREADY STARTING UNDER ALL AIR HANDLING UNITS TO FACILITIES, UNITS LOCATED WITHIN THE CEILING OF BUILDING FOR THE STRUCTURE, PIPINGS FLOOR, HANGERS, OR VARIOUS TECHNIQUES, SUPPORT LOCATION MAY CAUSE PIPING ON SUSPENDED ENTIRE PIPE FREE TO FALL. LOCATE EQUIPMENT AND ACCESS OF DISCONNECTION AND PIPING TO PROVIDE MAINTENANCE. PIPING SHALL BE INSTALLED TO PROVIDE CLEARANCE FOR ALL PIPE AND DUCTWORK SHOWN ON PLANS AND CLEAR BOOKS DIMENSIONS. TRANSMISSION OF DUCTWORK PIPING ETC.
7. ALL DUCTWORK & AIR SCHEMATICALLY FOLLOWS ALL TRANSITIONS, TURNING VANES, EQUIVALENT FITTING ETC. TO ALLOW SMOOTH AIR FLOW. DUCT FITTINGS SHALL DEPICT DIMENSION, POSITION OF THE SEAT IS THE FULL SIZE OF THE SEAT OF DUCTWORK.
8. ALL MATERIALS, PIPING AND DUCTWORK SHALL BE SUPPLIED NEW AND IN THE LATEST GOOD TYPES OF IMPROVED, UNDER BOTTOM OF DUCTS, SECURELY FASTEN SUPPORTS TO THE BUILDING STRUCTURE SUSPENDED FROM APPROVED TYPE HANGERS AT SPACING AS PER SPECIFICATIONS AND LOCAL CODES. ALL DUCTWORK SHALL BE INSTALLED WITH APPROVED SEALANT TO STEEL DUCT BARRIER MATERIALS IS APPLIED WITH GALVANIZED STEEL STRAP HANGERS AND THE SIDES AND BOTTOM OF DUCTS SHALL BE STRAPPED TO HANGERS.
9. ALL APPROVAL OF INSTALL DUCT SHALL HAVE AVAILABLE FOR ALL DUCTWORK SHALL HAVE LONG PULLEY ELEMENT PROVIDED. SHEET METAL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST APPROVED SMACNA STANDARDS. ALL DUCTWORK SHALL BE FABRICATED OF NEW, GALVANIZED SHEET METAL AND SHALL BE INSTALLED WITH AS FEW JOINTS AS POSSIBLE. ALL DUCTWORK



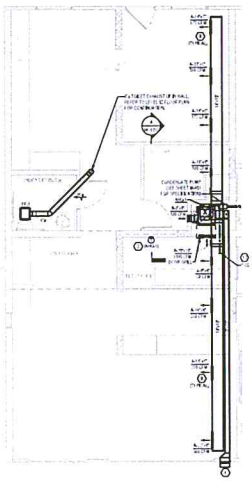
2 MECHANICAL FLOOR PLAN - BUILDING A - SECOND FLOOR
1/8" = 1'-0"



4 AHU - 1 SECTION
3/8" = 1'-0"



1 MECHANICAL FLOOR PLAN - BUILDING A - FIRST FLOOR
1/8" = 1'-0"



3 OFFICE AREA - ENLARGED PLAN
1/4" = 1'-0"

KEY NOTES:

ARCHITECTURAL DESIGN + ASSOCIATES, INC
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Ormond Beach, FL 32174
Ph. 386-676-7686

LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

MECHANICAL FLOOR PLAN - BUILDING A

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:43:22 -04'00'

E-SIGN

SEAL

MITESH K. SMART
PROF. ENGINEER

NO.	DATE	DESCRIPTION

01-27-2023

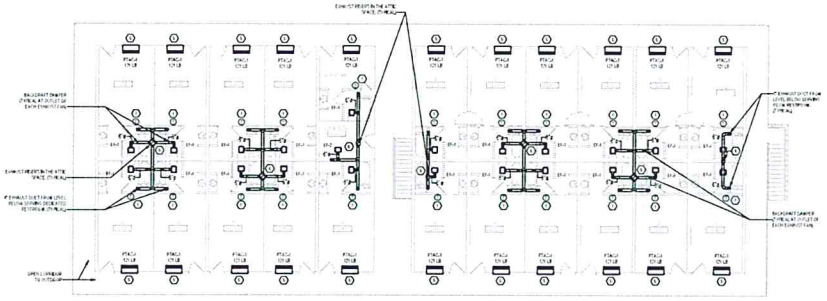
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M-101

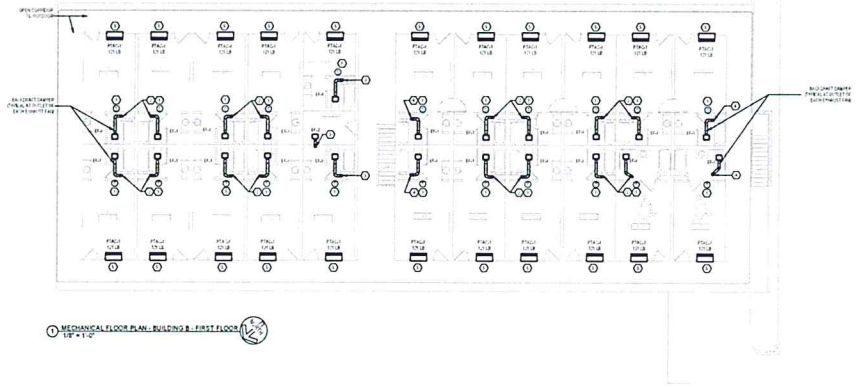
CONSTRUCTION DOCUMENTS

KEY NOTES:

1. ALL THERMOSTATS TO BE MOUNTED AT MOUNTING HEIGHT AND FOLLOWING MANUFACTURER'S RECOMMENDATIONS.
2. 8" TOILET EXHAUST DUCT AND TERMINATE AT ROOF OR SOFFIT.
3. 8" TOILET EXHAUST DUCT AND TERMINATE AT ROOF OR SOFFIT.
4. 8" TOILET EXHAUST DUCT AND TERMINATE AT ROOF OR SOFFIT.
5. NEW PTAC UNITS ARE SHOWN IN LOCATION OF PREVIOUSLY REMOVED PTAC UNITS. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EXISTING PTAC UNITS PRIOR TO INSTALLATION OF NEW UNITS. USE SAME LOCATION, SIZE AND TYPE OF EXISTING PTAC UNITS WHERE POSSIBLE. NOTIFY ARCHITECT PRIOR TO INSTALLATION OF NEW UNITS IF EXISTING OPENINGS ARE NOT SUFFICIENT FOR NEW UNITS.
6. CONTRACTOR TO FIELD VERIFY CONDITIONS AND INSTALL ALL THE P.T.A.C. UNIT, EXHAUST DUCT, ELECTRIC SERVICE AND CONNECTIONS REQUIRED IN ATTIC SPACE.



2 MECHANICAL FLOOR PLAN - BUILDING B - SECOND FLOOR
1/8" = 1'-0"



1 MECHANICAL FLOOR PLAN - BUILDING B - FIRST FLOOR
1/8" = 1'-0"

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PANAMA CITY, FLORIDA

MECHANICAL FLOOR PLAN - BUILDING B

Mitesh Smart
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Date: 2023.01.27 06:43:50 -04'00'

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MITESH K. SMART
PROF. ENGINEER
SEAL

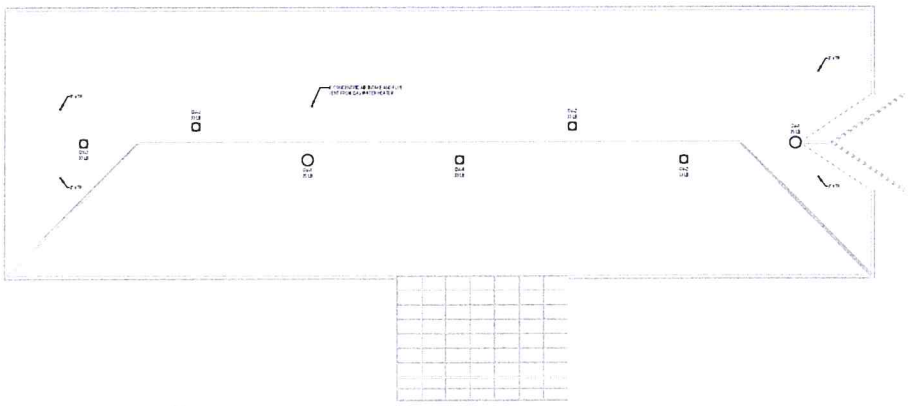
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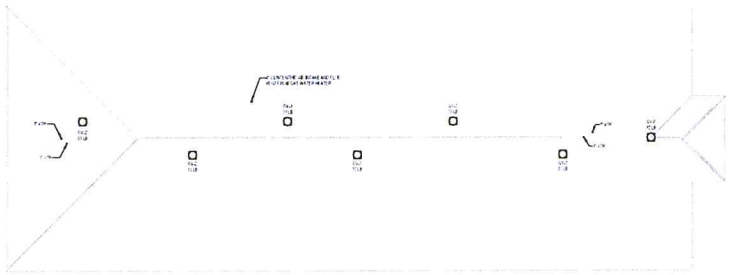
SHEET NUMBER

M-102

CONSTRUCTION DOCUMENTS



1 MECHANICAL ROOF PLAN - BUILDING A
1/8" = 1'-0"



2 MECHANICAL ROOF PLAN - BUILDING B
1/8" = 1'-0"

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MECHANICAL ROOF PLAN

Mitesh Smart
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Date: 2023.01.27 08:44:17 -04'00'

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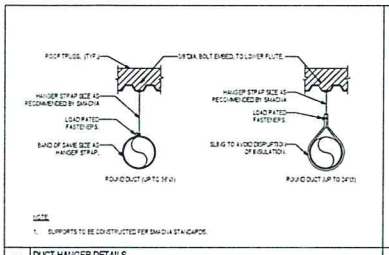
MITESH K. SMART
PROF. ENGINEER

REVISION	DATE	DESCRIPTION

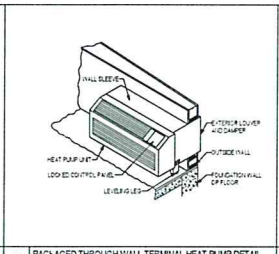
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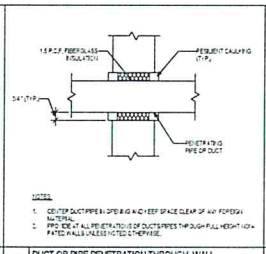
M-103



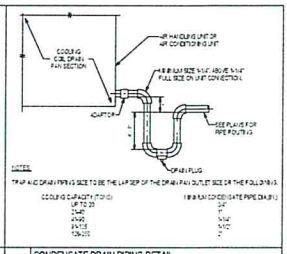
04 DUCT HANGER DETAILS
N.T.S.



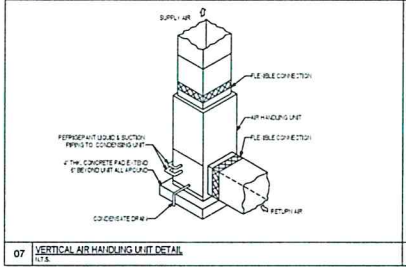
03 PACKAGED THROUGH WALL TERMINAL HEAT PUMP DETAIL
N.T.S.



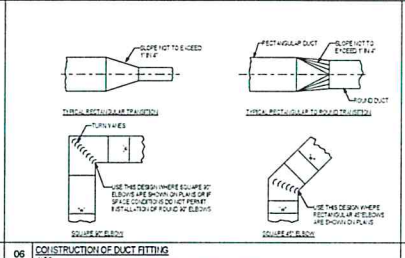
02 DUCT OR PIPE PENETRATION THROUGH WALL
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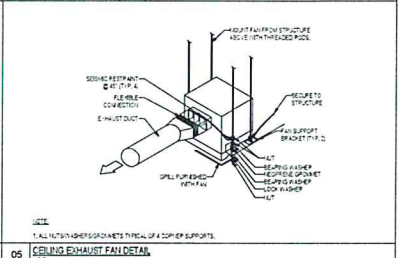
01 CONDENSATE DRAIN PIPING DETAIL
N.T.S.



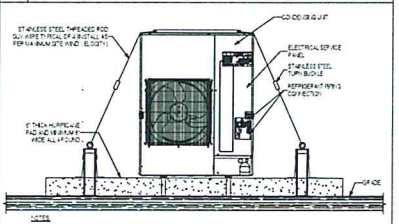
07 VERTICAL AIR HANDLING UNIT DETAIL
N.T.S.



06 CONSTRUCTION OF DUCT FITTING
N.T.S.



05 CEILING EXHAUST FAN DETAIL
N.T.S.



08 CONDENSING UNIT MOUNTED AT GRADE DETAIL
N.T.S.

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LA BRISA INN
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MECHANICAL DETAILS

Mitesh Smart
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Date: 2023.01.27 06:44:50 -04'00'

E-SIGN

MITESH K. SMART
PROF. ENGINEER
SEAL

NO#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER
M-501

CONSTRUCTION DOCUMENTS

GRAVITY VENTILATOR SCHEDULE

MARK	GV1	GV2	GV3	GV4	GV5
TYPE	GRAVITY	GRAVITY	GRAVITY	GRAVITY	GRAVITY
NET FREE AREA	SQ FT	SQ FT	SQ FT	SQ FT	SQ FT
AIR FLOW RATE (MIN. CFM)	CFM	CFM	CFM	CFM	CFM
THROAT AREA (SQ FT)	SQ FT	SQ FT	SQ FT	SQ FT	SQ FT
THROAT VELOCITY (FT/MIN)	FPM	FPM	FPM	FPM	FPM
DAMPER MATERIAL AND THICKNESS (GAUGE)	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL	GALVANIZED STEEL
CURB OR FLANGE	CURB	CURB	CURB	CURB	CURB
ROOF TYPE	GABLE/HIP/FLAT	GABLE/HIP/FLAT	GABLE/HIP/FLAT	GABLE/HIP/FLAT	GABLE/HIP/FLAT
MODEL NUMBER	SIMILAR TO	SIMILAR TO	SIMILAR TO	SIMILAR TO	SIMILAR TO

NOTES:
1. PROVIDE WITH ALUMINUM BIRD SCREEN.
2. PROVIDE WITH ROOF CURB, INSTALL UNIT LEVEL AND SEAL THE ROOF WITH ROOF SUPPLIED FLASHING.
3. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE CODES AND REQUIREMENTS.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	SIZE (IN.)	TYPE	FACE MATERIAL	MOUNTING TYPE	NECK SIZE (IN.)	REMARKS
A	24"x24"	4-WAY	ALUMINUM	SURFACE	AS SHOWN	SUPPLY AIR GRILLE WITH OPPOSED BLADE DAMPER
	12"x12"	4-WAY	ALUMINUM			
	10"x10"	4-WAY	ALUMINUM			
	8"x8"	4-WAY	ALUMINUM			
B	24"x24"	EGG-CRATE	ALUMINUM	SURFACE	AS SHOWN	RETURN AIR GRILLE WITH OPPOSED BLADE DAMPER
	12"x12"	EGG-CRATE	ALUMINUM			

SPLIT SYSTEM HEAT PUMP SCHEDULE

INDOOR UNIT	NOMINAL SYSTEM CAPACITY (TONS)	4
	SUPPLY AIR (CFM)	1600
	PRESSURE DROP ACROSS AIR COIL	0.5
	MINIMUM EFFICIENCY	15
	AMPS	6.5
	EXTERNAL STATIC PRESSURE (IN W.G.)	0.1
OUTDOOR UNIT	TYPE (1-PH, 3-PH)	SINGLE
	COOLING CAPACITY (MBH)	48.0
	SEASONAL EFFICIENCY (MIN) (SEER/IEER)	14.5
	ALTITUDE ADJUSTED HEATING CAPACITY	32.0 KW
	FUSE AMPS	50 A
	MCA / MOCP	25/40
	ELECTRICAL SERVICE (VOLTS)	208/1
	ACCESSORIES	2
	WEIGHT (LBS)	70 lbs
	REFRIGERANT	R-410A
	SEER/EER RATING	14.5/11.5
	HSPF RATING	8.5

NOTES:
1. PROVIDE REMOTE WIRED WALL MOUNTED PROGRAMMABLE DIGITAL THERMOSTAT.
2. UNIT SHALL BE WITH FUSE/BREAKER SIZED PER NAMEPLATE INFORMATION.
3. PROVIDE WITH LOW VOLTAGE REMOTE CONNECTION.
4. PROVIDE WITH FACTORY SUPPLIED CONDENSATE DRAIN PAN WITH BACK TO BACK DRAIN OUTLETS.
5. PROVIDE DRAIN TRAP FOR EACH UNIT.
6. PROVIDE CONDENSATE DRAIN PAN WITH OVERFLOW SWITCH TO SHUT OFF UNIT.
7. PROVIDE WITH FACTORY INSTALLED CONTROL BOARD TO ACT.
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PACKAGED TERMINAL HEAT PUMP SCHEDULE

	UNIT DESIGNATION	PTHC-1	PTHC-2
	LOCATION TYPE	HEATING UNIT	HEATING UNIT
	SUPPLY AIR (CFM)	700	350
	MIN OUTDOOR AIR (CFM)	90	90
	ADJUSTED TOTAL CAP.	11.8	6.4
	EER	11.8	11.8
COOLING	GROSS COOLING CAP. (BTU/HR)	11.8	6.4
CAPACITY	NOMINAL TONS	1	0.5
HEAT PUMP HEATING	HEATING CAPACITY (BTU/HR)	11.4	6.1
ELECTRIC	HEATING CAPACITY (BTU/HR)	11.4	6.1
HEATING	HEATING CAPACITY (KW)	3	1.5
ELECTRIC	SUPPLY	208/1 PH	208/1 PH
RATING	MCA / MOCP	20/30	20/30
	UNIT WEIGHT (LBS)	Per Code	Per Code
GENERAL	HEIGHT (IN.)	120	120
INFORMATION	MANUFACTURER	TRANE	TRANE
	MODEL NUMBER	PTHC12H4KA	PTHC12H4KA
	UNIT NOTES	ALL	ALL

NOTES:
1. PROVIDED WITH WALL MOUNTED WALL AND NOTED PROGRAMMABLE DIGITAL THERMOSTAT.
2. UNIT SHALL BE WITH FUSE/BREAKER SIZED PER NAMEPLATE INFORMATION.
3. PROVIDED WITH 24 HOUR SMART TIMER.
4. PROVIDED WITH BUILDING FLOW ARRANGEMENT.
5. PROVIDED WITH A TEMPERATURE SENSOR.
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FBC ENERGY CONSERVATION CODE, C403.2.1 CALCULATION OF HEATING AND COOLING LOADS

PROJECT NAME: LA BRISA INN
PROJECT ADDRESS: 5711 EAST HIGHWAY 98 PANAMA CITY, FLORIDA 32404
DESIGN METHOD USED: ASHRAE HANDBOOK OF FUNDAMENTALS
SUMMER OUTDOOR DRY BULB USED (0.4%): 91.2 °F
SUMMER OUTDOOR WET BULB USED (0.4%): 78.8 °F
WINTER OUTDOOR DRY BULB USED (99.6%): 29.2 °F
WINTER OUTDOOR WET BULB USED (99.6%): 25.3 °F
INDOOR DESIGN TEMPERATURE (SUMMER, OCCUPIED MODE): 75 °F
INDOOR DESIGN TEMPERATURE (SUMMER, UNOCCUPIED MODE): 85 °F
RELATIVE HUMIDITY: 50% RH
INDOOR DESIGN TEMPERATURE (WINTER, OCCUPIED MODE): 70 °F
INDOOR DESIGN TEMPERATURE (WINTER, UNOCCUPIED MODE): 60 °F
CLIMATE ZONE: 1A

ZONE	AREA (SF)	COOLING CAPACITY			GRAINS OF MOISTURE OF AIR			HEATING CAPACITY
		TOTAL (MBH)	SENSIBLE (MBH)	LATENT (MBH)	ENTERING	LEAVING	DIFFERENCE	TOTAL (MBH)
RTU-01	1700	6.8	4.8	1	84.7	63.7	21	6
RTU-02	1700	6.7	4.7	0.9	113.8	67.7	46.1	5.9
ANNEX	1700	48.4	37.8	10.6	83.4	69.9	13.5	34.1

*ABOVE LISTED CAPACITIES INCLUDE OUTSIDE AIR REQUIRED TO MEET FBC MECHANICAL

EXHAUST FAN SCHEDULE

UNIT NO.	EF-1
TYPE	IN-LINE CENTRIFUGAL
MODEL	GREENHECK SP-A
CFM	1000
ESP (IN. W.G.)	0.5
MOTOR HP	1/4
RPM	1100
VOLTS	115
PHASE	1
OPERATION	CONTINUOUS
CONTROL	SEE ELECTRICAL
WEIGHT (LBS)	70
DRIVE	DIRECT
MANUFACTURER	GREENHECK
MODEL NO.	SP-A 1000-VG
REMARKS	1, 2, 3

NOTES:
1. CONTRACT SHALL VERIFY FINAL MOTOR AND PULLEY SIZE.
2. PROVIDE WITH BACKDRAFT DAMPER, GRAVITY TYPE, AS SHOWN.
3. PROVIDE WALL MOUNTED SPEED CONTROLLER.
4. PROVIDE WITH A TIME DELAY SWITCH, ON/OFF, ADJUSTABLE FROM 1 TO 20 MINUTES.
5. PROVIDE WITH BIRD SCREEN.

VENTILATION SCHEDULE

SPACE	TYPE	NET AREA (SF)	NO. OF PEOPLE (PER UNIT)	OUTSIDE AIR RATE		OUTDOOR AIR RATE (CFM) BASED ON BREATHING ZONE	TOTAL AIR DISTRIBUTION (CFM) SUPPLIED	EXHAUST AIR (CFM)	ENERGY RECOVERY (CFM)
				PEOPLE (CFM/PERSON)	AREA (CFM/SF)				
BASE									
LOBBY	Offices, gallery, general	427	10	5	0.06	74	1	74	NO
BACK OFFICE	Offices, gallery, general	90	1	5	0.06	10	1	10	NO
MEET ROOM	Conference / Meeting	75	5	5	0.06	29	1	29	NO
GUEST WASH	Restroom - Public	50	0	5	0.06	3	1	3	NO
EMPLOYEE LOUNGE	Food and beverage service / Dining rooms	350	15	7.5	0.18	162	1	162	NO
	TOTAL								308
PTAC-1									
UNIT 1	Hotels, motels, resorts and dormitories / Bedroom/living room	200	-	-	0.06	12	1	12	NO
	TOTAL								20
PTAC-2									
UNIT 2 & 3	Hotels, motels, resorts and dormitories / Bedroom/living room	200	-	-	0.06	12	1	12	NO
	TOTAL								20
PTAC-3									
UNIT 4 & UNIT 5	Hotels, motels, resorts and dormitories / Bedroom/living room	400	-	-	0.06	24	1	24	NO
	TOTAL								20
PTAC-4									
UNIT 6	Hotels, motels, resorts and dormitories / Bedroom/living room	200	-	-	0.06	12	1	12	NO
	TOTAL								20
PTAC-5									
UNIT 7	Hotels, motels, resorts and dormitories / Bedroom/living room	279	-	-	0.06	17	1	17	NO
	TOTAL								20
PTAC-6									
UNIT 8 & UNIT 9	Hotels, motels, resorts and dormitories / Bedroom/living room	279	-	-	0.06	17	1	17	NO
	TOTAL								20
PTAC-7									
UNIT 10	Hotels, motels, resorts and dormitories / Bedroom/living room	400	-	-	0.06	24	1	24	NO
	TOTAL								20
PTAC-8									
UNIT 11	Sports and recreational / Health club/exercise room	279	-	5	0.06	34	1	34	NO
	TOTAL								40

ISP

ARCHITECTURAL DESIGN + ASSOCIATES INC
AA26001959
801 S. Yonge St, Suite 4
Ormond Beach, FL 32174
Ph. 386-676-2066

LA BRISA INN
5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

MECHANICAL SCHEDULES

Mitesh Smart
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Date: 2023.01.27 06:45:22 -04'00'

E-SIGN

MITESH K. SMART LICENSE No. 57772 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

DESCRIPTION	DATE

01-27-2023

SHEET NUMBER

M-601

CONSTRUCTION DOCUMENTS

PLUMBING SPECIFICATIONS

GENERAL PROVISIONS

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT PARAMETERS: PROVIDE MANUFACTURER'S STANDARD PRINTED LITERATURE OR REFERENCE TO A SPECIFIC PRODUCT AND NUMBER, APPLICABLE TO THE PRODUCTS INSTALLED, INCLUDING THE MANUFACTURER'S NAME AND ADDRESS. DELETE ANY REFERENCE TO MATERIALS NOT APPLICABLE TO THE PROJECT. PROVIDE WRITTEN LIFETIME WARRANTY FOR ALL EQUIPMENT AND MATERIALS, EXCEPT THAT WHERE THE WARRANTY TO BE OFFERED IS LESS THAN THE STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY. WHERE SPECIFIED EQUIPMENT OR MATERIALS EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY, AND NO SPECIFIED WARRANTY PERIOD SHALL BE REDUCED. IN NO CASE SHALL THE WARRANTY PERIOD AVAILABLE BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE PLUMBING WORK WITH ELECTRICAL WORK, AND PERFORM IT IN STRICT ACCORDANCE WITH THE ELECTRICAL SERVICE IN GENERAL, AND EXCEPT AS OTHERWISE SPECIFIED, INSTALLING ALL EQUIPMENT BUILT FOR ELECTRICAL OPERATION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MOTORS AND EQUIPMENT.

UTILITY CONNECTIONS: ELIMINATE THE CONNECTION OF PLUMBING SYSTEMS WITH CITY SEWER (UNDERGROUND) PIPES AND SERVICES. COMPLY WITH THE RULES AND REGULATIONS OF APPLICABLE GOVERNING AUTHORITIES. OBTAIN ALL PERMITS AND CERTIFICATES. PROVIDE A SINGLE CONNECTION OF EACH SERVICE EXCEPT WHERE MULTIPLE CONNECTIONS ARE REQUIRED.

EXISTING PIPING INSTALLATION

ALL CONNECTIONS TO AND COLD WATER PIPING SHALL BE COPPER TYPE L JOINTS AND FITTINGS SHALL BE WROUGHT COPPER SOLDER JOINT FITTINGS, SAFFLEX VALVES TO BE SOLDER TAIL PORT BRONZE BODY BALL TYPE WITH PROVIDED WHITE ALL VALVES TO BE BALL WITH LEVER TYPE SOLDER JOINT CONNECTIONS TO THE EXISTING WATER SUPPLY PIPING. PROVIDE A NEW SHUT-OFF VALVE AT EACH FIXTURE. ALL VALVES SHALL BE PROVIDED TO BE SOLDER CONNECTION OF TYPE, GRADE, SIZE, ETC. THROUGHOUT INSTALL CONNECTIONS TO DISSIMILAR METALS. PIPING SUPPORTS TO BE COPPER CLOAK HANGERS WITH ALL THREAD ROD AND APPROPRIATE PLUMBING ATTACHMENT TO BUILDING STRUCTURE. CONTRACTUAL HANGER SPACING TO BE PER MOST RESTRICTIVE PERMIT REQUIREMENTS FOR SIZE AND LAYOUT OF PIPE RUNS. INSTALL SUPPLY AIR VENT AND DRAIN.

WATER HAMMER ARRESTERS SHALL BE SIOUX CHIEF PRECHARGED COMPRESSED CHAMBER REMOVABLE STEEL CASING AND BELLOWS. PROVIDE SIZES COMPLYING WITH PDI-WH 201 STANDARD SIZING. ATTACH TO BRANCH PIPE AS NEAR AS POSSIBLE TO QUICK-ACTING VALVE OR FIXTURE SUPPLY.

BALL VALVES: BALL VALVES SHALL BE 2 PIECE BRONZE OR BRASS BODY, WITH FULL PORT, BLOWOUT PROOF STEM AND ADJUSTABLE PACKING NUT WITH HANDLE OF LEVER. VALVES SHALL BE TESTED FOR NOT LESS THAN 600 PSI WOG AT 150 DEGREES F. VALVES SHALL BE IN APPROVED LOCATIONS TO PERMIT ACCESS TO ALL FITTINGS, PARTICULAR ATTENTION SHALL BE GIVEN TO ACCESS TO VALVES.

GATE VALVES: VALVES 2 INCHES AND SMALLER SHALL BE ALL BRONZE, RISING STEM, SOLDER ENDED GATE VALVES WITH SOLID WEDGE DISC, RATED AT 125 PSIG WOG. VALVES SHALL BE APPROVED FOR USE WITH DRINKING WATER. VALVES SHALL BE AS FOLLOWS: NIBCO T-134 OR EQUAL.

GLOBE VALVES: VALVES 2 INCHES AND SMALLER SHALL BE BRONZE, RISING STEM, BRONZE DISC AND SEAT, SOLDER ENDED WITH RENEWABLE SEAT AND POLISHED DISC. VALVES SHALL BE RATED AT 125 PSIG WOG. VALVES SHALL BE APPROVED FOR USE WITH DRINKING WATER. VALVES SHALL BE AS FOLLOWS: NIBCO T-235 OR EQUAL.

CHECK VALVES: VALVES 2 INCHES AND SMALLER SHALL BE BRONZE BODY WITH BRONZE SEAT AND DISC AND SHALL BE RATED AT 125 PSIG WOG. VALVES SHALL BE AS FOLLOWS: NIBCO T-413 OR EQUAL.

INSULATION MATERIALS

PIPE INSULATION SHALL BE AS FOLLOWS:

PIPE TYPE	PIPE SIZE	INSULATION THICKNESS
COLD (DRIPPED)	1/2" TO 1-1/2"	1/2"
	2" AND LARGER	1"
HOT WATER RECIRC.	ALL SIZES	1"

**INSULATION TO BE SUPPLIED BY ENERGY STAR AND MAY NOT BE CUT TO FIT AT JOB LOCATION.

COPPER COLD WATER PIPE INSULATION SHALL BE OMITTED WHERE INSTALLED IN A SPACE WHICH WILL NOT BECOME WARM OR WHERE ENTRAPMENT OF PIPE TO CONDENSE DO NOT CUT OR PIERCE INSULATION EXCEPT WHERE PIPE HAS BEEN APPROVED TO INSTALL PIPE TO.

HOT WATER SYSTEM SERVICE

PLUMBING CONTRACTOR SHALL PROVIDE BALANCING VALVES, TEMPERING VALVES, & FLOW FOR ALL RESTROOMS TO ENSURE HOT IS BEING NOT WATER IS TEMPERED TO PROPER VALVES SHALL BE ALL SUPPLY PIPING SHALL BE PROVIDED BETWEEN EXISTING BUILDING AND WHERE IT CONNECTS TO EXISTING AND BRANCH PIPES TO POINT OF AND BALANCE HOT WATER SYSTEM. ALL BALANCING VALVES SHALL BE SHALL LIST FOR WATER QUALITY FOR WATER QUALITY AND SYSTEM SHALL BE REVISED & ADJUSTED AS NECESSARY UNTIL SYSTEM IS BALANCED.

VENTING, WASTE AND VENT PIPING SYSTEM

ALL SANITARY DRAIN AND VENT PIPING ABOVE AND BELOW GROUND SHALL BE SCHEDULE 40 PVC TYPE DWV PLASTIC PIPE. THE SPRINGS TO WITHIN 3 FEET AND WITHIN 3 FEET OF BUILDING DRAIN TYPE, EXCEPT WHERE OTHERWISE NOTED. PIPING TO ACTIVE SOIL SHALL BE CLEANED AND FREE FROM ALL DEBRIS AND ANY DIRECT CONNECTIONS TO ACTIVE SOIL SHALL BE MADE WHERE SHOWN. SOLVENT CEMENT SHALL CONFORM TO ASTM D 2564 AND BE APPROVED TO ALL CLEAN AND LUBRICATED PIPE AND FITTINGS AND ARE DRY. ALL JOINTS ARE TO BE ALL PIPING TO BE INSTALLED AT A MINIMUM SLOPE OF 1/4 INCH PER FOOT OR AS SHOWN ON PLANS UNLESS OTHERWISE NOTED. ALL PIPING SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/4 INCH PER FOOT FOR SIZES 3 TO 4 INCH, AND 1/8 INCH PER FOOT FOR SIZES 6 INCH AND LARGER.

VALVES & CLEANOUTS

ALL MATERIALS (INCLUDING PIPE AND NON-MANUFACTURED) SHALL COMPLY WITH THE APPLICABLE NSF STANDARDS AND STANDARDS ACCEPTED AND IN THE FOLLOWING REFERENCES:

1. 2018 (THE EDITION OF SCHEDULE FOR) GAS CODE.
2. LATEST EDITION OF NFPA 54.

GATE BRONZE GATE VALVES AND ANGULAR SHUTOFF VALVES
PROVIDE A GATE VALVE IN CONVENIENT LOCATION AND MANUAL SHUTOFF VALVE FOR ALL SHUTOFF BALL VALVES, SHUTOFF VALVES ON THE GAS SUPPLY TO EACH APPLIANCE OR THE EQUIPMENT SHALL BE TYPE.

PIPE, TUBES AND FITTINGS
STEEL PIPE SHALL BE ASTM A53, BLACK STEEL, SCHEDULE 40, TYPE S, STANDARD, GRADE B.
1. PIPE SHALL BE MANUFACTURED BY STEEL MILL AND BEARS THE MILL'S NAME OR TRADEMARK.
2. WITH THREADED, WELDING FITTING AT THE TIME OF THE PIPE MILL TEST, AND SQUARE CUT ENDS.
3. STEEL PIPE SHALL BE COLD DRAWN SEAMLESS OR ERW WITH FULL LENGTH SEAT OF WELDING BEAD AND THREADED ENDS.

ALL VALVES SHALL BE OF RIGHT QUALITY, TYPE AND APPROVED OF BY MATERIAL USED HEREIN.

VALVE INSTALLATION
1. INSTALL ALL VALVES AND CLEANERS IN AN APPROVED MANNER AND IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS DOORS WHERE NECESSARY.

PLUMBING LEGENDS

- COND DRAIN
- GALVANIZED WATER SUPPLY
- HOT WATER SUPPLY
- SANITARY
- VENT
- DIRECTION OF FLOW IN PIPE
- PIPE UP
- PIPE DN
- TEE UP
- TEE DN
- CAP
- P-TRAP
- CLEAN OUT PLUG
- CHANGE IN PIPE ELEVATION
- 90° ELBOW
- WALL HYDRANT
- HOSE BIBB
- FLOOR DRAIN
- FLOOR CLEANOUT
- 2 WAY EXTENSION CLEANOUT
- WALL CLEANOUT
- TRENCH DRAIN
- PIPE TO SPEE ARROW
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- PUMP
- 3 WAY VALVE
- BACKFLOW PREVENTER
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- CONTROL VALVE
- DIAPHRAGM VALVE
- GATE VALVE
- GLOBE VALVE
- MULTI-PURPOSE VALVE
- PLUG VALVE
- RELIEF VALVE
- STEAM TRAPS
- VACUUM BREAKER VALVE
- SOLENOID VALVE
- STRAINER
- PIPE UNION
- AUTOMATIC AIR VENT
- PRESSURE GAUGE
- THERMOMETER
- FLOW SWITCH
- PRESSURE SWITCH
- TEMPERATURE SWITCH
- CONNECT TO EXISTING

PLUMBING NOTES

1. THE PLUMBING SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
2. DRAWINGS ARE DIAGRAMMATIC, AND INTENT IS TO OBTAIN WORK SHALL BE FULLY AND AS POSSIBLE EXACT EQUIPMENT LOCATIONS AND PIPING ROUTING SHALL BE SUBJECT TO BUILDING LAYOUT PLAN AND ARCHITECTURAL DETAILS.
3. PROVIDE ALL MATERIALS AND EQUIPMENT AS SHALL COMPLY WITH LOCAL CODES.
4. PIPE PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE CONSTRUCTED PER APPLICABLE ALL CONSTRUCTION DETAILS.
5. DRAWINGS ARE TO APPROXIMATE ROUTING OF PIPING AND DO NOT INCLUDE ALL OFFSETS, FITTINGS, VALVES AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION. CONTRACTOR SHALL COORDINATE EXACT ROUTING OF PIPING WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL WORK. PROVIDE ALL OFFSETS, FITTINGS, VALVES AND ACCESSORIES REQUIRED TO AVOID INTERFERENCES AND OBSTRUCTIONS.
6. SUPPORT ALL PIPING, EQUIPMENT ETC. FROM BUILDING STRUCTURAL MEMBERS, DO NOT INSTALL ON PERFORATED METAL TO SUPPORT PIPING. DO NOT SUPPORT PIPING FROM OTHER PIPING, DUCTWORK, AND/OR EQUIPMENT.
7. ALL PLUMBING WORK SHALL BE STATED HEREIN OR USEFUL BUYER CHOICE (ALTHOUGH ANOTHER ACCESSIBLE FLOOR DRAIN UNLESS NOTED OTHERWISE, LOCATE AND ARRANGE VALVES, DRAIN FITTINGS, ETC. TO BE ACCESSIBLE THROUGH ACCESS DOORS. ALL SYSTEMS TO BE EITHER DRAIN, PROVIDE ACCESS PANEL OR FLOOR DRAIN IN NON-ACCESSIBLE INSTALLATIONS.
8. PROVIDE UNIONS IN PIPING BETWEEN EQUIPMENT OR VALVES AT ALL LOCATIONS AND AS WHERE NEEDED OF PLUMBING CODES.
9. ALL EQUIPMENT SHALL BE NOTED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
10. ALL EQUIPMENT, PIPING AND PLANTS SHALL BE LOCATED TO MAKE SURE SHALL HAVE OF USE SPACE AROUND OUT AT OUTLET.
11. ALL PIPING SYSTEM PIPING SHALL NOT BE INSTALLED IN FLOOR OF SHAFTS, ELEVATOR MACHINE ROOMS, ELECTRICAL ROOMS AND SIMILAR TYPES TO SWITCHGEAR LINE VALVES, ALONG EXTERIOR WALLS OF SUMP PUMP DISCHARGE PIPING. CONTACT ARCHITECT/ENGINEER OF RECORD FOR ANY DEVIATIONS OR ANY OTHER PIPING.
12. ALL EQUIPMENT SHALL BE VENTILATED AND STORAGE SHALL NOT ONLY SHALL BE INSTALLED TIGHT TO STRUCTURE AT LOCATIONS SHOWN ON PLANS, SEE COLUMN SCHEDULES, ETC.
13. PROVIDE CLEANOUTS AT BASES OF WET AT HORIZONTAL OFFSETS OF ALL WASTE PIPE STACKS AND STORM PIPING.
14. ALL DRAIN PIPING SHALL BE ACCESSIBLE IF LOCATED ABOVE CEILINGS, OR BEHIND FINISHED WALLS. PROVIDE ACCESS DOOR IN CEILING OR WALL AS SITE PLANS OR LOCATIONS NEW ARCHITECT.
15. VALVE NOTED OTHERWISE ALL VERTICAL PIPING DROPS TO FIXTURES HOSE BIBB FAUCETS, ETC. MUST BE CONCEALED IN THE WALL.
16. PROVIDE TEMPERATURE REGULATING VALVE (THERMOSTATIC MIXING VALVE) AT ALL FIXTURES IN PUBLIC RESTROOMS. ADJUST TEMPERATURE TO 110°F MAXIMUM.
17. ALL EQUIPMENT SHALL BE INSTALLED AT LEAST AS FAR AS THE MINIMUM DISTANCE FROM WALL OR OTHER OBSTRUCTIONS AS RECOMMENDED BY MANUFACTURER.
18. WHERE A FLOOR DRAIN IS TO BE INSTALLED ADJACENT TO EQUIPMENT FOR DRAINAGE PURPOSES, THE EXACT LOCATION OF THE FLOOR DRAIN SHALL BE COORDINATED WITH THE EQUIPMENT TO ENSURE THAT ANY EQUIPMENT EXACT ELEVATIONS OF FLOOR DRAIN OPENINGS ARE NOT BE CONFIGURED TO THE TRUE WITH FINISHED FLOOR (GRADE AND SLOPE).

PLUMBING ABBREVIATIONS

AC	AIR CONDITIONING	HWR	HOT WATER RETURN
AD	AREA DRAIN	IRR	IRRIGATION
AFF	ABOVE FINISHED FLOOR	WH	INSTANTANEOUS WATER HEATER
AWH	AUTOMATIC FLUSHING	LT	LAVATORY TYP.
BFP	BACKFLOW PREVENTION DEVICE	L	LAVATORY
BF	BELOW FLOOR	MH	MAN HOLE
BG	BELOW GRADE	MTD	NOT TO SCALE
BOP	BOTTOM OF PIPE	OHD	OVERFLOW ROOF DRAIN
BT	BATHTUB	PC	PLUMBING CONTRACTOR
BTW	BETWEEN THERMAL LIMITS PER NOM	PRV	PRESSURE RELIEF VALVE
C	CONDENSATE	S	SANITARY
CP	CONDENSATE PUMP	P	PUMP
CV	CHECK VALVE	PVF	PLUMBING & FUTURE
CWS	CAD WATER SUPPLY	RD	ROOF DRAIN
DW	DISHWASHER	SS	SERVICE SINK
DN	DOWN	SH	SHOWER
EJ	EJECTOR SUMP	SK	SINK
EWC	ELECTRIC WATER COOLER	ST	STORM
EXH	EMERGENCY EYE WASH	TW	TEMPERATURE
ET	EXPANSION TANK	UP	SUMP PUMP
FCO	FLOOR CLEANOUT	TD	TRENCH DRAIN
FD	FLOOR DRAIN	VTR	VENT THROUGH ROOF
FS	FLOOR SINK	WHA	THERMOSTATIC MIXING VALVE
GPM	GALLONS PER MINUTE	CW	WATER CLOSET (TOILET)
HWH	HOT WATER HEATER	CTP	WHEEL CHAIR
HB	HOSE BIBB	WCO	WALL CLEANOUT
HD	HYD DRAIN	WC	WATER CLOSET
HWCP	HOT WATER CIRCULATION PUMP	WD	WALKER DITCH
HWS	HOT WATER SUPPLY	WHA	WATER HAMMER ARRESTOR

MINIMUM SLOPE REQUIREMENTS

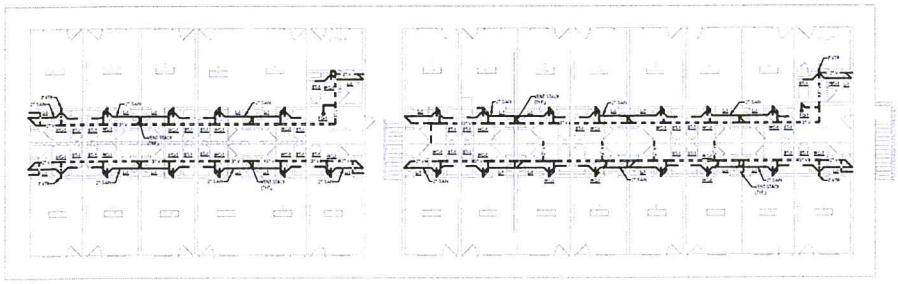
SIZE (Inches)	MINIMUM SLOPE (Inches PER FOOT)
2 inch & less	1/4
3 & 4	1/8
6 inch & larger	1/16

GENERAL NOTES

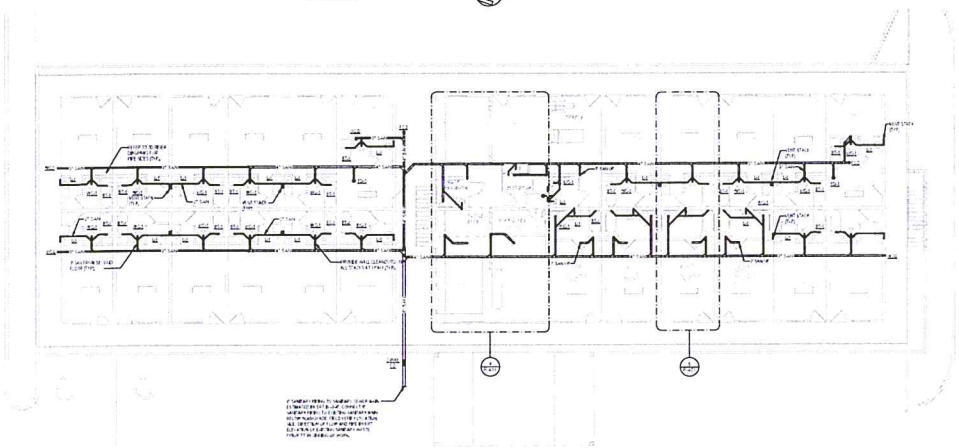
1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CODES AND STANDARDS REFERENCED THEREUNDER. IF THE UTILITIES SHALL HAVE COMPLETE DRAWINGS CONSTRUCTION STANDARDS.
   2018 FLORIDA BUILDING CODE 7TH EDITION
   - PLUMBING CODE
   - FUEL GAS CODE
   - MECHANICAL CODE
   - ENERGY CONSERVATION CODE
   - 2018 NFPA 101 LIFE SAFETY CODE
2. THE PLUMBING TRADE IS RESPONSIBLE FOR COORDINATION OF ALL FIELD DIMENSIONS, LOCATION AND CONDITIONS PRIOR TO THE INSTALLATION OF ANY MATERIALS AND ENGINEERING OF WORK. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES THAT SHALL EXIST BETWEEN THE DRAWINGS AND FIELD CONDITIONS.
3. THE CONTRACTOR SHALL PAY FOR WATER, TEMPORARIES, LIGHTS AND TEMPORARY FIRE, SYSTEM DRAWING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING WORK.
4. ALL PLUMBING FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL ADA REQUIREMENTS.
5. ALL MATERIALS AND WORK SHALL CONFORM WITH ALL APPLICABLE CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION FOR SAFETY AND HEALTH REGULATIONS POSTING DANGER SIGNS AND OTHER PRECAUTIONS AS MAY BE REQUIRED BY LAW, HEALTH REGULATIONS.
7. ALL EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH OSHA REGULATIONS FOR TRENCH PROTECTION.
8. THE CONTRACTOR SHALL COORDINATE WORK WITH CONTRACTORS TO ENSURE ALL EQUIPMENT AND MATERIALS ARE DELIVERED FOR INSTALLATION AT THE PROPER TIME.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING BUILDING AND ITS CONTENTS CAUSED BY HIS WORK. ALL DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE OWNER.
10. ALL EQUIPMENT AND MATERIALS TO BE NEW AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
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13. THE CONTRACTOR SHALL COORDINATE WORK WITH CONTRACTORS TO ENSURE ALL EQUIPMENT AND MATERIALS ARE DELIVERED FOR INSTALLATION AT THE PROPER TIME.
14. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION AND CUTTING AND PATCHING WORK.
15. PRIOR TO INSTALLATION, CONFIRM SIZE AND EXACT FINAL LOCATION OF WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL FIELD DIMENSIONS.
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DRAWING INDEX - PLUMBING

P-001	PLUMBING LEGENDS, GENERAL NOTES & SPECIFICATIONS
P-100	PLUMBING UNDERSLAB & UNDERGROUND PLAN
P-101	PLUMBING ROOF PLAN
P-200	PLUMBING RISER DIAGRAM
P-201	PLUMBING DETAILS
P-300	PLUMBING SCHEDULES
P-400	PLUMBING FIXTURE DETAILS



② SECOND FLOOR SANITARY PLAN - BUILDING A
1/8" = 1'-0"



① FIRST FLOOR SANITARY PLAN - BUILDING A
1/8" = 1'-0"

ISP

ARCHITECTURAL DESIGN + ASSOCIATES INC.
AA26001959
801 S Yonge St. Suite 4
Ormond Beach FL 32174
Ph. 386-676-2686

LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

PLUMBING SANITARY FLOOR PLANS - BUILDING A

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:46:32 -04'00'

E-SIGN

MITESH K. SMART
PROF. ENGINEER
SEAL

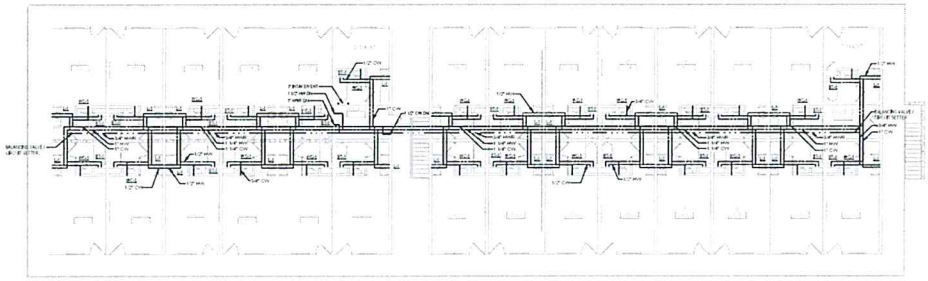
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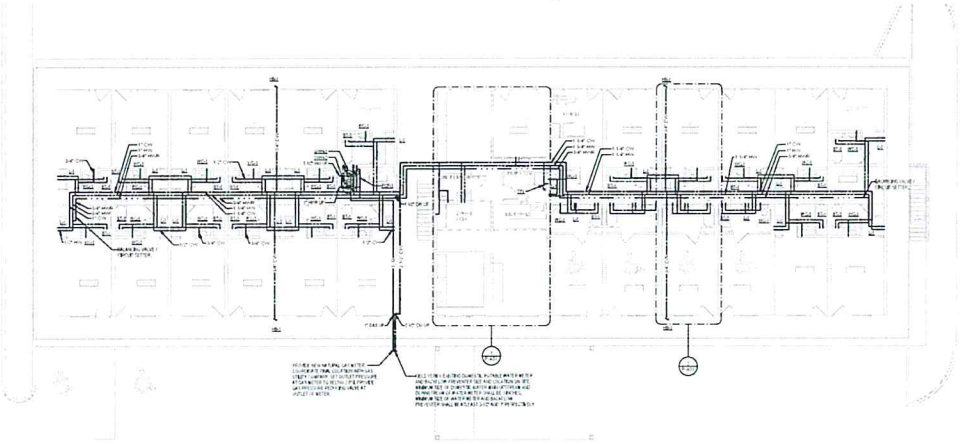
SHEET NUMBER

P-101

CONSTRUCTION DOCUMENTS



2 SECOND FLOOR DOMESTIC WATER PLAN - BUILDING A
1/8" = 1'-0"



1 FIRST FLOOR DOMESTIC WATER PLAN - BUILDING A
1/8" = 1'-0"

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&
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PLUMBING DOMESTIC WATER FLOOR PLANS
- BUILDING A

Mitesh Smart
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Date: 2023.01.27 06:46:55 -04'00'

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MITESH K. SMART
No.82772
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PROFESSIONAL ENGINEER

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MITESH K. SMART
PROF. ENGINEER

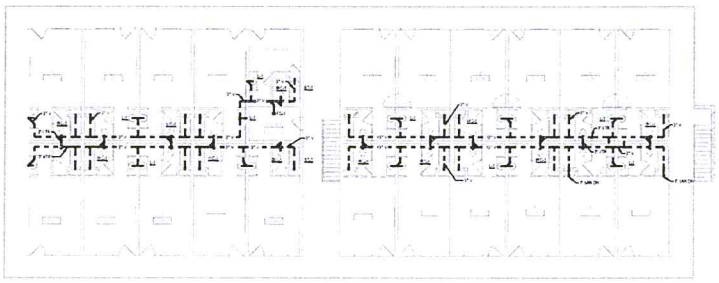
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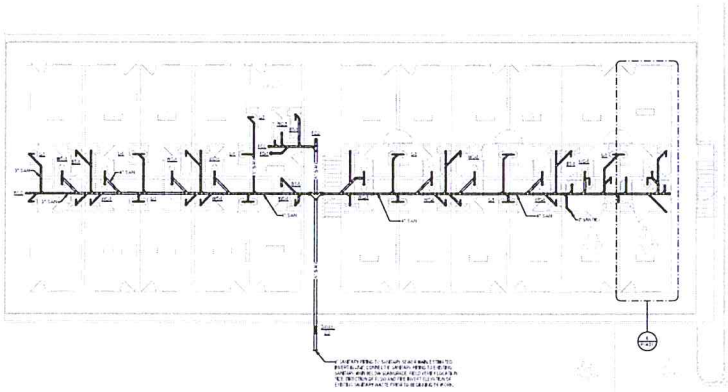
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P-102

CONSTRUCTION DOCUMENTS



2 SECOND FLOOR SANITARY PLAN - BUILDING B
1/8" = 1'-0"



1 FIRST FLOOR SANITARY PLAN - BUILDING B
1/8" = 1'-0"

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PLUMBING SANITARY FLOOR PLANS - BUILDING B

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:47:29 -04'00'

E-SIGN

MITESH K. SMART
PROF. ENGINEER
SEAL

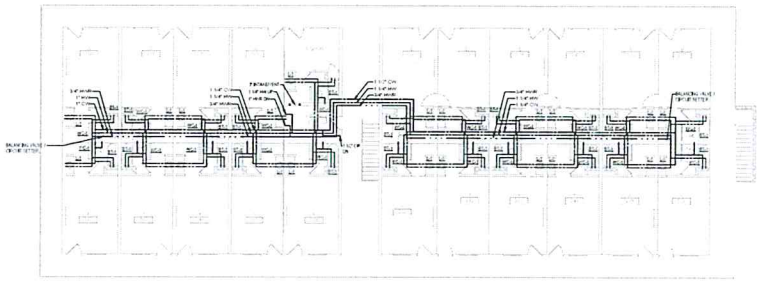
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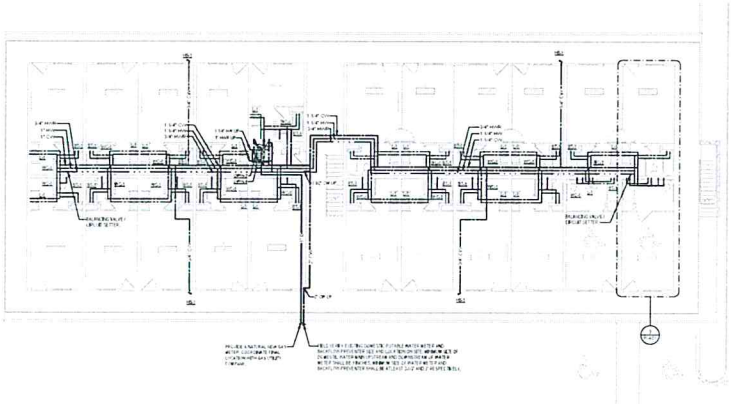
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P-103

CONSTRUCTION DOCUMENTS



2 SECOND FLOOR DOMESTIC WATER PLAN - BUILDING B
1/8" = 1'-0"



1 FIRST FLOOR DOMESTIC WATER PLAN - BUILDING B
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ISP

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PANAMA CITY, FLORIDA

PLUMBING DOMESTIC WATER FLOOR PLANS - BUILDING B

Mitesh Smart Digitally signed by Mitesh Smart Date: 2023.01.27 06:48:03 -04'00'

E-SIGN

MITESH K. SMART
PROF. ENGINEER

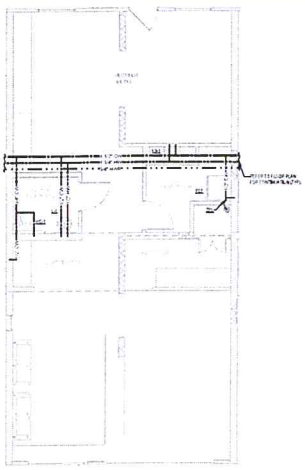
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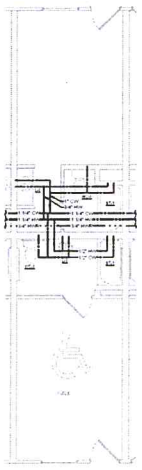
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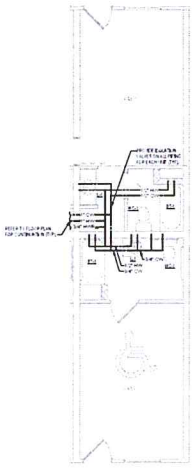
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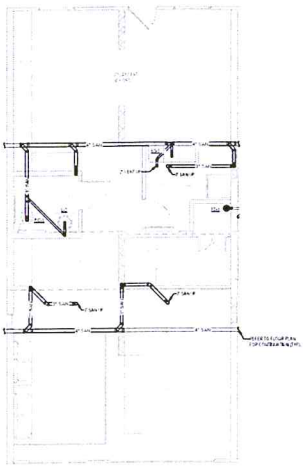
1 LOBBY LAYOUT - DOMESTIC WATER PLAN
1/4" = 1'-0"



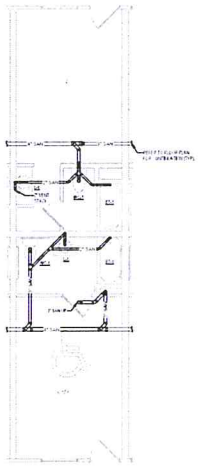
2 DOUBLE FULL SIZE ROOM AND HANDICAP - DOMESTIC WATER PLAN
1/4" = 1'-0"



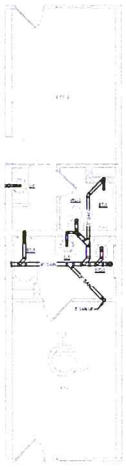
3 KING ROOM AND HANDICAP ACC. KING ROOM - DOMESTIC WATER PLAN
1/4" = 1'-0"



4 LOBBY LAYOUT - SANITARY PLAN
1/4" = 1'-0"



5 DOUBLE FULL SIZE ROOM AND HANDICAP - SANITARY PLAN
1/4" = 1'-0"



6 KING ROOM AND HANDICAP ACC. KING ROOM - SANITARY PLAN
1/4" = 1'-0"

ISP

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Ph. 386.676.2666

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PLUMBING ENLARGED

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:48:33 -04'00'

E-SIGN

MITESH K. SMART
No. 52772
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

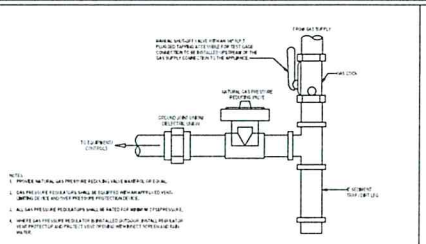
NO.	DATE	DESCRIPTION

01-27-2023

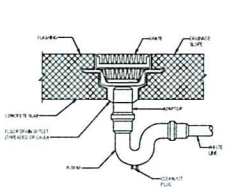
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P-401

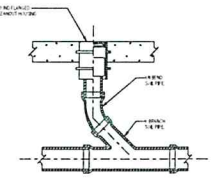
CONSTRUCTION DOCUMENTS



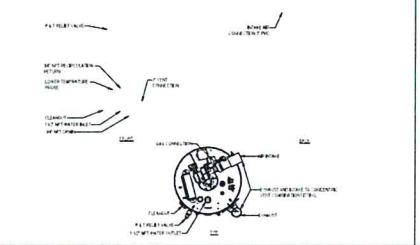
07 GAS CONNECTION TO EQUIPMENT
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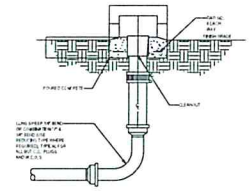
04 FLOOR DRAIN
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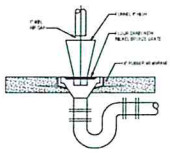
01 SANITARY CLEANOUT FLOOR SLAB
N.T.S.



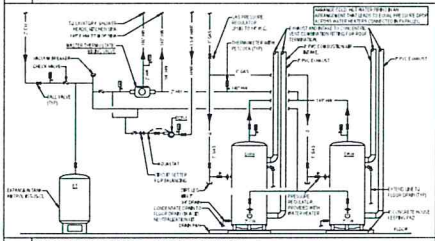
08 GAS WATER HEATER
N.T.S.



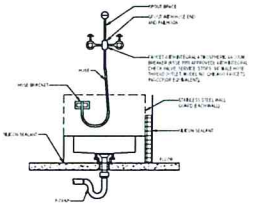
05 GRADE CLEANOUT
N.T.S.



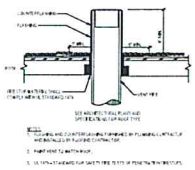
02 INDIRECT DRAIN
N.T.S.



09 GAS WATER HEATERS - PIPING SCHEMATIC
N.T.S.



06 MOP SINK VACUUM BREAKER DETAIL
N.T.S.



03 VENT THRU ROOF
N.T.S.

ISP

ARCHITECTURAL DESIGN ASSOCIATES INC
AA26001959
801 S. Yonge St. Suite 4
Ormond Beach, FL 32174
Ph. 386-676-2660

LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

PLUMBING DETAILS

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:49:18 -04'00'

E-SIGN

MITESH K. SMART
PROF. ENGINEER
SEAL

NO.	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

P-501

CONSTRUCTION DOCUMENTS

RECIRCULATION PUMP SCHEDULE

TAG	PUMP STYLE	FLOW RATE (GPM)	PUMP HEAD RANGE (FT)	MAX OPERATING PRESSURE (PSI)	RPM	MOTOR CONNECTION (IN/OUT)	MAX POWER INPUT (WATT)	ELECTRICAL DATA VOLTAGE	PHASE	CURRENT (AMP)	MODEL NUMBER	MANUFACTURER	LENGTH WEIGHT (LBS)
RCIRC-1	DIRECT, HOT WATER	N/A	8.6	125	1	1"NPTM	92.4	115	1	0.72	2NH7	TACO	9

NOTES:
1. ALL LEAD FREE CERTIFIED RECIRCULATION PUMP.
2. PROVIDE WITH STRAINER UPSTREAM OF PUMP.
3. PROVIDE WITH WATER VALVE AND UNION WITH SELECTIVE FITTINGS.
4. PROVIDE WITH AQUASTAT AND TIMER ADJUSTED AS NEEDED.

TOTAL PLUMBING FIXTURE DEMAND CALCULATION - BUILDING A

FIXTURE	DESCRIPTION	OCCUPANCY	QTY.	DRAINAGE FIXTURE UNITS	SUBTOTAL	LOAD VALUES (WATER SUPPLY FIXTURE UNITS (WSFU))			LOAD VALUES (WATER TOTAL SUPPLY FIXTURE UNITS (WSFU))			REMARKS
						COLD	HOT	TOTAL	COLD	HOT	TOTAL	
-	BATHROOM GROUP	PRIVATE	19	1	29	2.7	1.5	3.6	14.5	9.5	18	
WC-1	WATER CLOSET	PUBLIC	1	4	4	5.0	-	5.0	5.0	-	5.0	
LV	LAVATORY	PUBLIC	2	1	2	1.5	1.5	2.5	3.0	3.0	6.0	
KS-1	KITCHEN SINK	PUBLIC	1	2	2	3.0	3.0	4.5	3.0	3.0	6.0	
HB-1	HOSE BIBB	-	4	-	-	2.5	-	2.5	6.0	-	6.0	
					37.5	GPM			16.0	9.5	23.1	WSFU
	RECIRCULATION DEMAND FOR BUILDING A				9	DIAMETER OF PIPE (INCHES)			1.5	1"	1.5"	GPM
									2"	2"	2.5"	INCHES DIA.

TOTAL PLUMBING FIXTURE DEMAND CALCULATION - BUILDING B

FIXTURE	DESCRIPTION	OCCUPANCY	QTY.	DRAINAGE FIXTURE UNITS	SUBTOTAL	LOAD VALUES (WATER SUPPLY FIXTURE UNITS (WSFU))			LOAD VALUES (WATER TOTAL SUPPLY FIXTURE UNITS (WSFU))			REMARKS
						COLD	HOT	TOTAL	COLD	HOT	TOTAL	
-	BATHROOM GROUP	PRIVATE	44	1	29	2.7	1.5	3.6	11.8	6.6	15.6	
HB-1	HOSE BIBB	-	4	-	-	2.5	-	2.5	9.5	-	9.5	
					29	GPM			12.1	6.6	16.7	WSFU
					9	DIAMETER OF PIPE (INCHES)			1.5	1"	1.5"	GPM
									2"	1.25"	2"	INCHES DIA.

PLUMBING FIXTURE SCHEDULE

FIXTURE MARK	FIXTURE TYPE	WASTE CONN.	TRAP	VENT CONN.	H/W CONN.	C/W CONN.	MANUFACTURER / MODEL #	DESCRIPTION
WC-1	PUBLIC & PRIVATE	3"	INTEG.	2"	3/4"	-	KOHLER WELLWORTH K-3988-TR	16" x 14" x 29 3/4", ELONGATED TWO-PIECE FLOOR MOUNT TOILET, 1.28 GPF, ATTACHED CHINA, COLOR SELECTED BY OWNER, WITH CLOSE-COUPLED TOILET SEAT & TANK
LV-1	PUBLIC/PRIVATE	2"	1 1/2"	2"	1/2"	1/2"	AMERICAN STANDARD ADVANTAGE COUNTERTOP SINK 0476.028	WHITE VITREOUS CHINA, 20 x 17 x 7 1/2" DEEP, COUNTERTOP, FRONT OVERFLOW, ADA COMPLIANT, FAUCET: AMERICAN STANDARD, MONTERREY 4720.175.295 CHROME, 1.2GPM, PRESSURE COMPENSATING, HANDLE RESISTANT SPRAY, WHEEL RESISTANT BLADE HANDLES, LEAD DRAIN AND POP UP DRAIN, ADA COMPLIANT
ST-1	PRIVATE	2"	2"	2"	1/2"	1/2"	KOHLER STERLING TOWLET	28 INCH, HIGH GLOSS FINISH, ARCHITECTURAL GRADE PVC DRAIN (ASTM D1784) WITH 1 3/4" COMPRESSION WASHER SLIDE EVENLY, UNIFORMLY, FAUCET SHALL BE STANDARD CERAMIC MIXING VALVE WITH METAL LEVER HANDLE, TUB SHOWER DIVERTER/STOP WITH ESCUTCHEON, PRESSURE BALANCING VALVE MODEL NUMBER MUST BE LOW FLOW COMPLIANT, 2.5 GPM, TWO WAY TUB FILLER/DIVERTER, METAL LEVER HANDLE, TUB SPOUT WITH DIVERTER, 5 1/2" LONG, TWO WAY, BATH & SHOWER, LUXURY, ACRE SEAL APPROVED THERMOSETTING MOVING HEAD.
KS-1	PUBLIC	2"	2"	2"	1/2"	1/2"	ELKAY LUSTERTONE LRAD	STAINLESS STEEL, NICKEL BEARING, CORRUGATED STEEL BOWL DEPTH 7", GOOSE CORNERS, 3" RADIUS, SERVING FAUCET DECK HOLES, SEAT BELOW OUTSIDE EDGE OF SINK, FAUCET: KOHLER K-22172, 1.5 GPM MANUFACTURER RATE, CERAMIC DISC VALVES.
HB-1						3/4"	JOHN GUEST	LOCATION: CERAMIC SIDE MOUNT, 9 GPH CAPACITY, NON-FREEZE, ANTI-SIPHON, AUTHORITY DRAINING
FD-1	-	3"	3"	2"	-	-	ZURN Z1900	BACKWATER VALVE BODY WITH FLASHING COLLAR AND ADJUSTABLE STAINLESS STEEL MESH TRAP WITH CONNECTION.
FCO-1		SEE PLAN	SEE PLAN				ZURN Z1441	CAST IRON CLEANOUT WITH ROUND ACID RESIST NICKEL BRONZE TOP

NOTES:
1. PROVIDE ALL ADA LAVATORIES AND SINKS NOT PROTECTED BY AN ARCHITECTURAL SHIFT PANEL PROVIDE WITH JOHN GUEST PIPING COVERS.

WATER HAMMER ARRESTOR SCHEDULE

FIXTURES	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

GAS WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	STORAGE CAPACITY (GALLONS)	GAS CONSUMPTION INPUT (KBTUH)	RECOVERY @ 90°F RISE (GPH)	ELECTRICAL DATA VOLTAGE	PHASE	CONNECTION HW (IN)	CONNECTION CW (IN)	CONNECTION GAS (IN)	CONNECTION VENTING	WEIGHT (LBS)
WHG-1	A.O. SMITH	GAS TANK WITH STANDING	199	199.9	276	115	1	1 1/2"	1 1/2"	3/4"	4"	194

NOTES:
1. PROVIDE WITH VERTICAL LONG FLOW HEAT AND CYCLE TOTRAP TRAP.
2. SET AT 120°F MAX WATER TEMPERATURE FROM HEATER OUTLET. SET AT 110°F HOT WATER TEMPERATURE AT FIXTURE AT THE FARTHEST FIXTURE FROM THE HEATER.
3. PROVIDE WITH MANUFACTURER'S RECOMMENDED RELIEF VALVE.
4. PROVIDE WITH EXPANSION TANK.
5. PROVIDE ALL APPROVED METHODS AND INSTALLATIONS AS REQUIRED BY THE MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE ALL REQUIRED ACCESSORIES FOR THE HEATER INSTALLATION AS REQUIRED BY THE MANUFACTURER'S RECOMMENDATIONS.

ISP

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801 S. Yonge St. Suite 4
Ormond Beach, FL 32174
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LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

PLUMBING SCHEDULES

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:49:50 -04'00'

E-SIGN

LICENSE No.82772 STATE OF FLORIDA

SEAL

MITESH K. SMART
PROF. ENGINEER

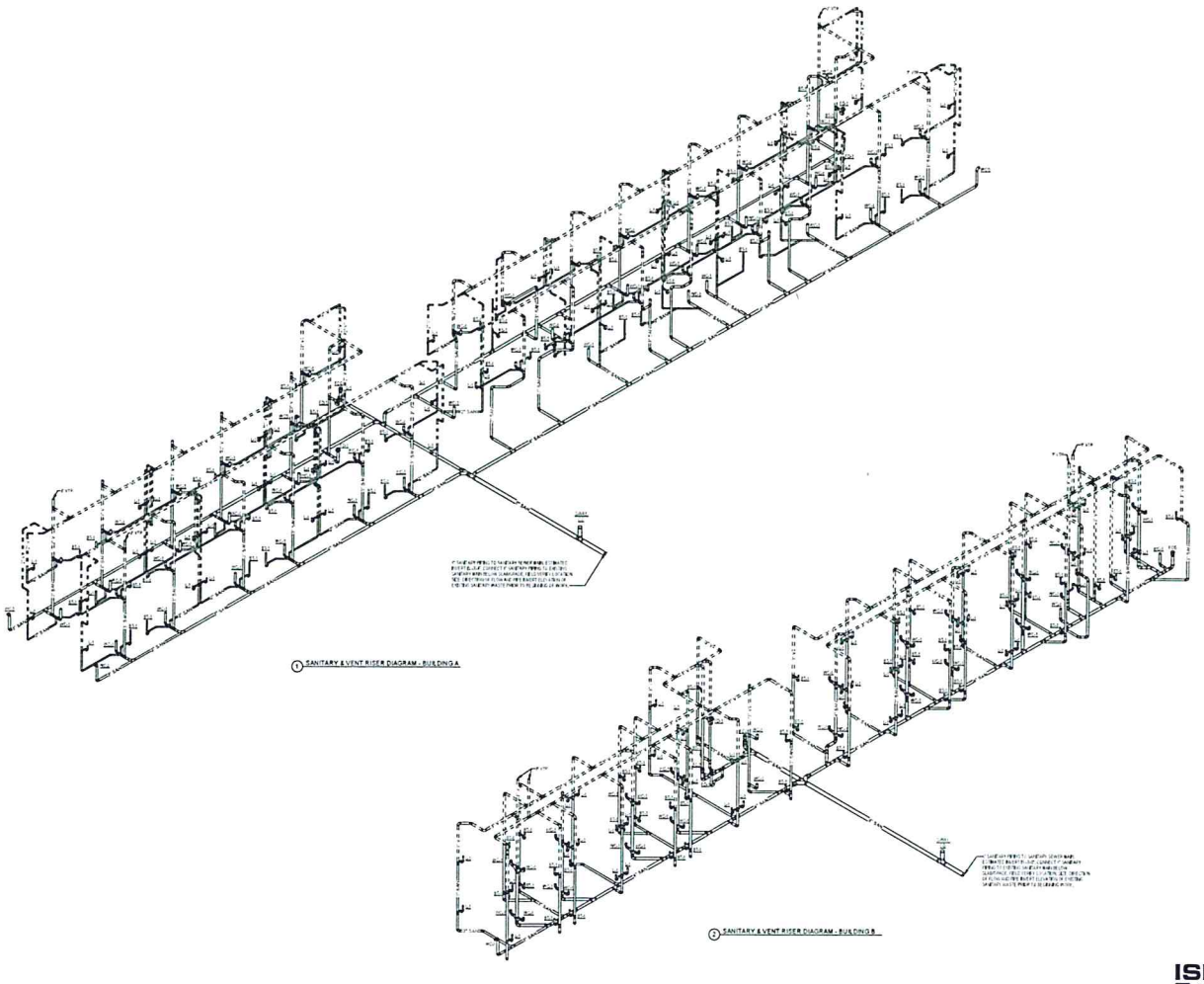
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01-27-2023

SHEET NUMBER

P-601

CONSTRUCTION DOCUMENTS



1 SANITARY & VENT RISER DIAGRAM - BUILDING A

2 SANITARY & VENT RISER DIAGRAM - BUILDING B

ISP

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PANAMA CITY, FLORIDA

PLUMBING SANITARY RISERS - BUILDING A & B

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:50:26 -04'00'

E-SIGN

MITESH K. SMART
No.52772
STATE OF FLORIDA
PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

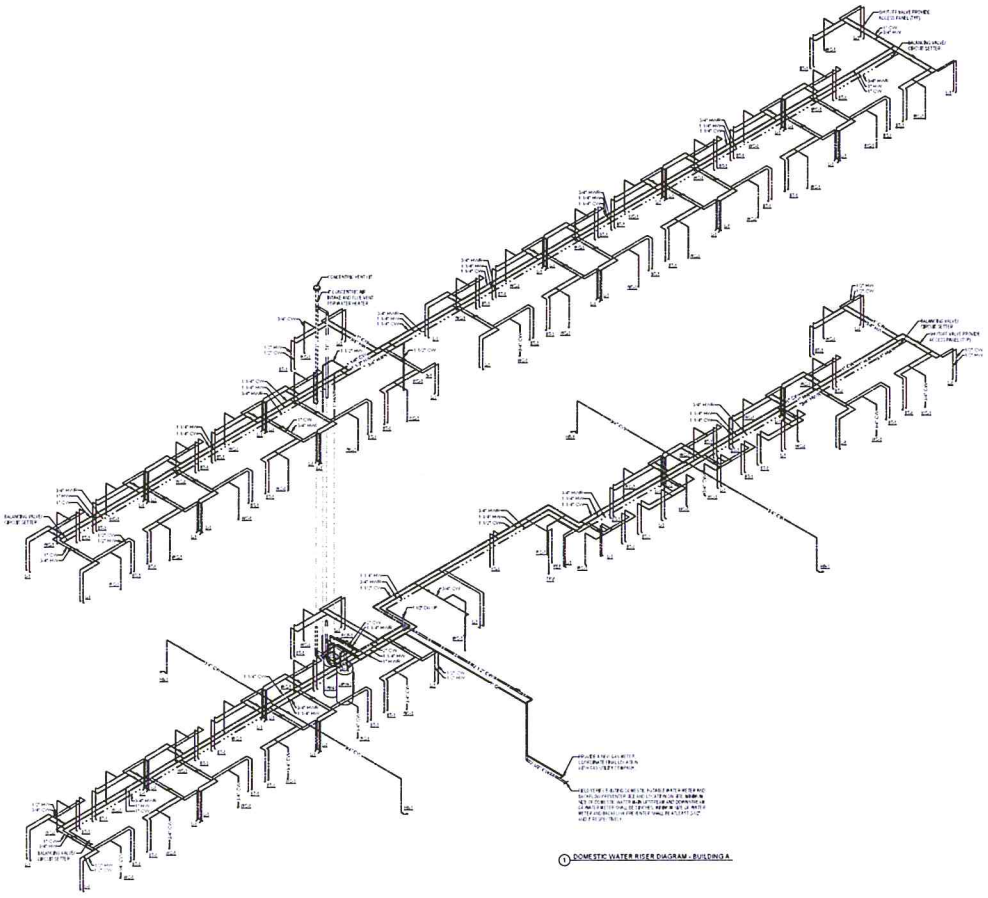
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01-27-2023

SHEET NUMBER

P-701

CONSTRUCTION DOCUMENTS



1 DOMESTIC WATER RISER DIAGRAM - BUILDING A

ISP

ARCHITECTURAL DESIGN + ASSOCIATES INC
AA26001959
801 S Yonge St Suite 4
Ormond Beach FL 32174
Ph. 386-676-2646

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5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

PLUMBING DOMESTIC WATER RISERS - BUILDING A

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:51:08 -04'00'

E-SIGN

SEAL

MITESH K. SMART
PROF. ENGINEER

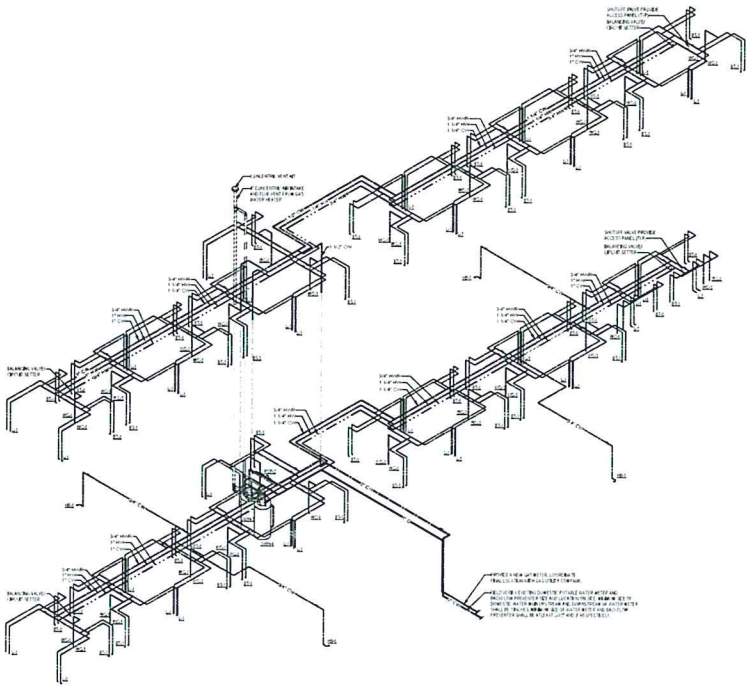
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01-27-2023

SHEET NUMBER

P-702

CONSTRUCTION DOCUMENTS



1 DOMESTIC WATER RISER DIAGRAM - BUILDING B

ISP INTERNATIONAL SERVICE PARTNERS, LLC

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801 S. Yonge St. Suite 4
Ormond Beach FL 32174
Ph. 386-676-2666

LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

PLUMBING DOMESTIC WATER RISERS - BUILDING B

Mitesh Smart Digitally signed by Mitesh Smart Date: 2023.01.27 06:51:39 -04'00'

E-SIGN

MITESH K. SMART
No 52772
STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

NO#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

P-703

CONSTRUCTION DOCUMENTS

DIVISION 26 - ELECTRICAL SPECIFICATIONS

GENERAL ELECTRICAL INSTALLATION REQUIREMENTS

A. THE CONTRACTOR SHALL PERFORM ALL WORK IN STRICT COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE FLORIDA ELECTRICAL CODE AS SET BY THE DEPARTMENT OF COMMERCE AND ANY AHJ.

B. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FULLY RATED FOR THE SERVICE INTENDED AND INSTALLED IN THE MANNER RECOMMENDED BY THE MANUFACTURER. ALL EQUIPMENT SHALL BE INSTALLED SO THAT ACCESS FOR OPERATION AND MAINTENANCE IS NOT IMPAIRED.

C. IF THE NEED IS DISCOVERED AT THE JOB SITE FOR ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE SUFFICIENT AND CLEAR RESULTS THAT ARE FULLY SUBSTANTIATED BY ENGINEERING CALCULATIONS AND SUBMIT THEM TO THE ENGINEER OF RECORD FOR APPROVAL BEFORE PROCEEDING WITH THE WORK IN QUESTION. THE CONTRACTOR SHALL NOT PROCEED WITH ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

D. ALL WORK SHALL BE PERFORMED BY LICENSED AND QUALIFIED ELECTRICIANS EMPLOYED BY THE CONTRACTOR OR SUBCONTRACTOR.

E. ELECTRICAL SYSTEMS SHALL BE INSTALLED IN A COMPLETE INSTALLATION WHETHER ALL DETAILS ARE NOT FULLY SHOWN OR SPECIFIED. IF ANY DETAILS OF CONSTRUCTION ARE OMITTED FROM THE DRAWINGS AND SPECIFICATIONS, THEY SHALL BE SUPPLIED AND INCLUDED IN THE WORK AS IF THEY CONSTITUTED A PART OF THE CONTRACT.

F. TEMPORARY WIRING:
1. THE CONTRACTOR SHALL PROVIDE AND REMOVE WHEN NO LONGER REQUIRED, ALL TEMPORARY WIRING THAT MAY BE REQUIRED FOR THE PROPER EXECUTION OF THE WORK.
2. ALL TEMPORARY WIRING SHALL BE INSTALLED IN A WORKMANLIKE MANNER AND SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE NEC.
3. TEMPORARY WIRING SHALL BE REMOVED FROM THE BUILDING BEFORE THE FINAL INSPECTION.

G. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER OF RECORD BEFORE INSTALLATION.

H. ALL EQUIPMENT SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION AND SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE IF DAMAGED.

I. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL EQUIPMENT WITH ALL OTHER TRADES TO ENSURE PROPER SPACE AND ACCESS.

J. ALL PENETRATIONS OF FIRE-RATED ASSEMBLIES SHALL BE SEALED WITH APPROVED FIRESTOPPING MATERIALS TO MAINTAIN THE RATING OF THE ASSEMBLY.

K. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE OWNER AT THE COMPLETION OF THE PROJECT.

L. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER. THE CONTRACTOR SHALL KEEP THE JOB SITE CLEAN AND FREE OF DEBRIS DAILY.

M. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, INSPECTIONS, AND FEES REQUIRED FOR THE ELECTRICAL WORK.

N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANY FOR THE INSTALLATION OF THE SERVICE.

O. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS, HANGERS, AND BRACING FOR ALL ELECTRICAL EQUIPMENT AND RACEWAYS.

P. ALL EXPOSED CONDUIT SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO BUILDING LINES AND NEATLY ROUTED.

Q. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CUTTING AND PATCHING FOR THE ELECTRICAL WORK.

R. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE OSHA SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY.

S. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY EQUIPMENT AND PROCEDURES FOR THE PROTECTION OF WORKERS AND THE PUBLIC.

T. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL AND BARRICADES FOR THE PROTECTION OF THE PUBLIC DURING CONSTRUCTION.

U. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY NOISE CONTROL MEASURES TO COMPLY WITH LOCAL ORDINANCES.

V. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY DUST CONTROL MEASURES TO COMPLY WITH LOCAL ORDINANCES.

W. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY VIBRATION CONTROL MEASURES TO COMPLY WITH LOCAL ORDINANCES.

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ELECTRICAL SYSTEMS

A. ALL ELECTRICAL WORK SHALL BE PERFORMED BY WORKERS QUALIFIED IN THE TRADE INVOLVED.

B. PRIOR TO STARTING ANY WORK, THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AFFECTING THE WORK.

C. ALL MATERIALS SHALL BE NEW, UNLESS OTHERWISE NOTED, AND SHALL BEAR THE LABEL OF AN APPROVED TESTING LABORATORY.

D. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

E. ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER.

F. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.

G. ALL PENETRATIONS OF FIRE-RATED ASSEMBLIES SHALL BE SEALED WITH APPROVED FIRESTOPPING MATERIALS.

H. ALL EQUIPMENT SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.

I. THE CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO THE OWNER AT THE COMPLETION OF THE PROJECT.

J. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY.

K. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY EQUIPMENT AND PROCEDURES FOR THE PROTECTION OF WORKERS AND THE PUBLIC.

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CONDUIT SYSTEMS

A. MINIMUM SIZE CONDUIT SHALL BE 1/2 INCH UNLESS OTHERWISE NOTED.

B. CONDUIT SHALL BE CONCEALED IN FINISHED AREAS.

C. CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.

D. CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 10 FEET.

E. CONDUIT SHALL BE BONDED AND GROUNDED.

F. CONDUIT SHALL BE PROTECTED FROM CORROSION.

G. CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 4 INCHES OF CONCRETE COVER WHERE EMBEDDED IN CONCRETE.

H. CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 12 INCHES OF EARTH COVER WHERE BURIED.

I. CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 6 INCHES OF CLEARANCE FROM HOT PIPES.

J. CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 12 INCHES OF CLEARANCE FROM FLUE PIPES.

K. CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 6 INCHES OF CLEARANCE FROM STEAM PIPES.

L. CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 12 INCHES OF CLEARANCE FROM HOT WATER PIPES.

M. CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 6 INCHES OF CLEARANCE FROM COLD WATER PIPES.

N. CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 12 INCHES OF CLEARANCE FROM GAS PIPES.

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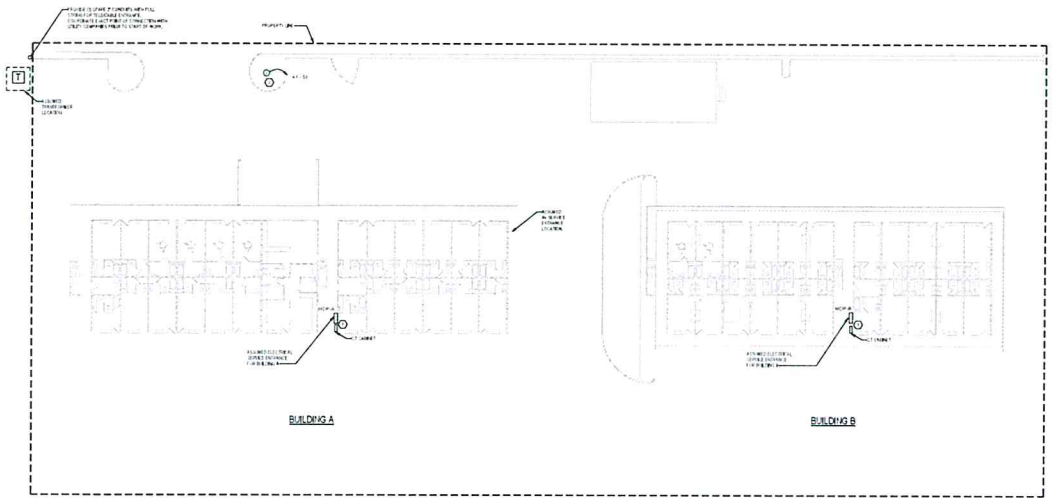
BBB. CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 12 INCHES OF CLEARANCE FROM HOT WATER PIPES.

CCC. CONDUIT SHALL BE INSTALLED WITH A MINIMUM OF 6 INCHES OF CLEARANCE FROM COLD WATER PIPES.

DDD. CONDUIT S

GENERAL NOTES:

KEY NOTES:



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

ISP

ARCHITECTURAL DESIGN & ASSOCIATES INC
AA26001959
801 S. Yonge St. Suite 4
Ormond Beach, FL 32174
Ph. 386.676.2660

LA BRISA INN
5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

SITE PLAN

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 06:52:51 -04'00'

E-SIGN

SEAL

MITESH K. SMART
PROF. ENGINEER

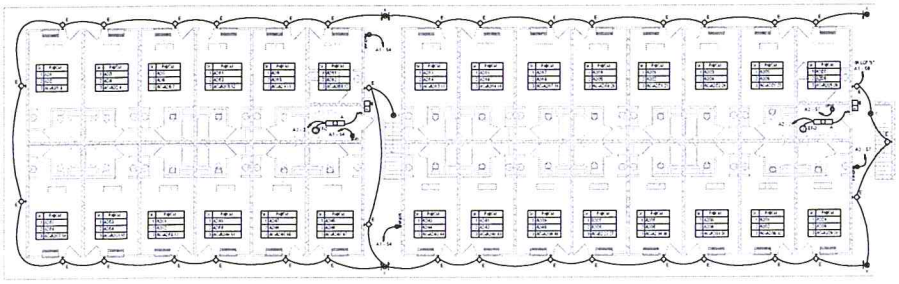
NO.	DATE	DESCRIPTION

01-27-2023

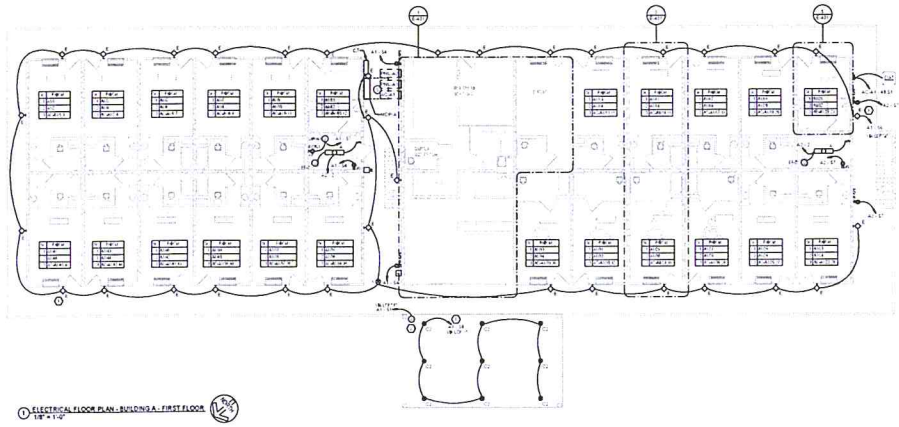
SHEET NUMBER

E-100

CONSTRUCTION DOCUMENTS



2 ELECTRICAL FLOOR PLAN - BUILDING A - SECOND FLOOR
1/8" = 1'-0"



1 ELECTRICAL FLOOR PLAN - BUILDING A - FIRST FLOOR
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO ALL MANUFACTURERS SPECIFICATIONS AND COORDINATE ELECTRICAL CONNECTIONS AS REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF ALL EQUIPMENT WITH THE OTHER TRADES.
2. VERIFY AND COORDINATE EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT AND MAKE ALL CHANGES AND ADJUSTMENTS PRIOR TO INSTALLATION AND ENTRANCE.
3. COORDINATE WITH MECHANICAL ELECTRICAL CONTRACTOR AND ALL PURCHASE OF EQUIPMENT AND DEVICES.
4. REFER ALSO TO DETAILS AND NOTES OF DRAWINGS AND SPECIFICATIONS OF ALL OTHER PLANS AND CONTRACTOR SHALL NOTIFY THE PLANS EXAMINER PRIOR TO INSTALLATION.
5. COORDINATE AND VERIFY EXACT LOCATION OF SERVICE AND ELECTRICAL PANELS WITH ARCHITECTS DRAFT OF THE PLANS.
6. PROVIDE BOLLARDS PROTECTION NEAR THE PANELS TO PROTECT THE UNIT FROM DAMAGE.

KEY NOTES:

1. ALL EXTERIOR LIGHTS ARE TO BE CONTROLLED THROUGH ELECTRICAL CONTROL PANEL LOCATED INSIDE ELECTRICAL ROOM.
2. PROVIDE LIGHTS IN SMOKE PROOF ENCLOSURE CONTROLLED THROUGH ELECTRICAL CONTROL PANEL LOCATED INSIDE ELECTRICAL ROOM.

ISP

ARCHITECTURAL DESIGN ASSOCIATES INC
AA26001959
801 S. Yonge St. Suite 4
Ormond Beach, FL 32174
Ph. 386-676-2686

LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

ELECTRICAL FLOOR PLAN - BUILDING A

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 07:28:42 -04'00'

E-SIGN

MITESH K. SMART
PROF. ENGINEER

NO#	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

E-101

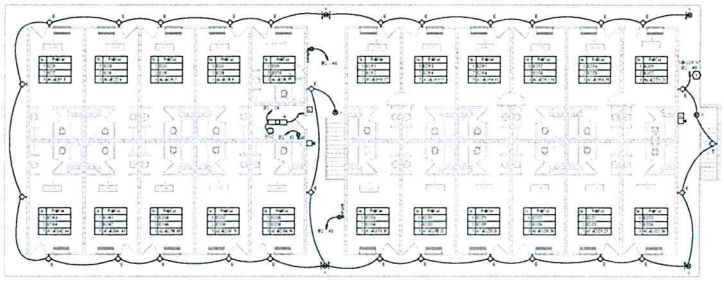
CONSTRUCTION DOCUMENTS

GENERAL NOTES:

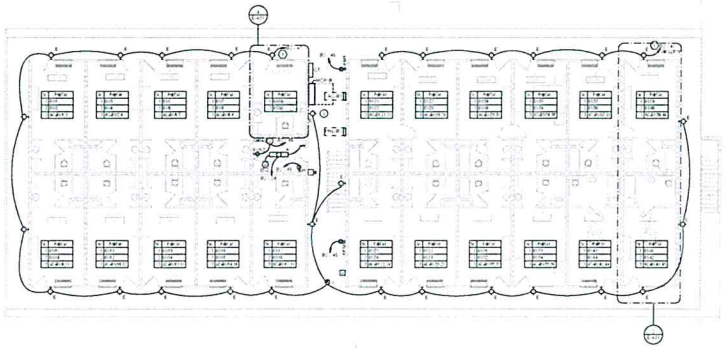
1. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL EQUIPMENT NOT SHOWN ON ELECTRICAL DRAWINGS.
2. VERIFY AND COORDINATE ALL ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S LITERATURE PRIOR TO INSTALLATION OF EQUIPMENT.
3. COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO PURCHASE OF EQUIPMENT OR DEVICES.
4. FIRE ALARM SYSTEM SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH NFPA 72 AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
5. ALL EXTERIOR LIGHTS SHALL BE CONTROLLED THROUGH LIGHTING CONTROL PANEL (LCP).
6. PROVIDE 3 SQUARE X 2 INCH DEEP PULL BOXES AT EACH CORNER OF BUILDING.
7. ALL EXTERIOR LIGHTS SHALL BE CONTROLLED THROUGH LIGHTING CONTROL PANEL (LCP).
8. PROVIDE 3 SQUARE X 2 INCH DEEP PULL BOXES AT EACH CORNER OF BUILDING.

KEY NOTES:

1. ALL EXTERIOR LIGHTS SHALL BE CONTROLLED THROUGH LIGHTING CONTROL PANEL (LCP).



2 ELECTRICAL FLOOR PLAN - BUILDING B - SECOND FLOOR
1/8" = 1'-0"



1 ELECTRICAL FLOOR PLAN - BUILDING B - FIRST FLOOR
1/8" = 1'-0"

ISP

ARCHITECTURAL DESIGN
&
ASSOCIATES, INC.
AA26001959
801 S. Yonge St. Suite 4
Ormond Beach, FL 32174
Ph. 386.676.2656

LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

ELECTRICAL FLOOR PLAN - BUILDING B

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 07:31:17 -04'00'

E-SIGN

STATE OF FLORIDA
No.82772
MITESH K. SMART
PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

I CERTIFY THAT TO THE BEST OF THE ARCHITECT'S KNOWLEDGE, INFORMATION AND BELIEF, THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT ARE IN COMPLIANCE WITH THE APPLICABLE PROVISIONS OF THE FLORIDA BUILDING CODE AND THE FLORIDA FIRE PREVENTION CODE IN EFFECT AT THE TIME OF PERMITTING. THIS CERTIFICATION IS LIMITED TO THE ABOVE-REFERENCED CODES AND DOES NOT INCLUDE ANY OTHER LAWS, RULES, REGULATIONS OR ORDINANCES OF THE STATE OF FLORIDA OR ANY OF ITS POLITICAL SUBDIVISIONS.

MARK	DATE	DESCRIPTION

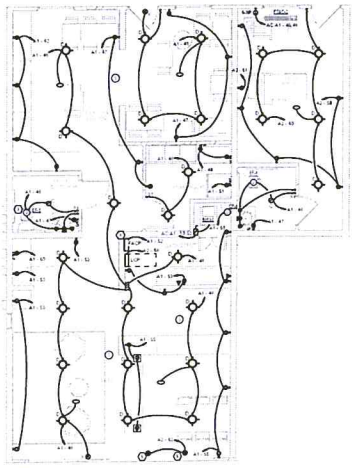
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SHEET NUMBER

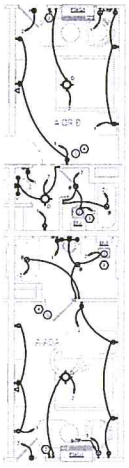
E-102

CONSTRUCTION DOCUMENTS

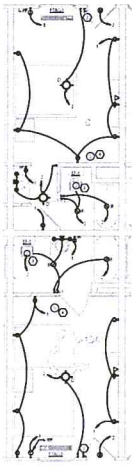
These drawings and specifications, and copies thereof, furnished by the architect are and shall remain the property of the architect. They are not to be used in whole or part for any other project without the written permission of the architect. Visual contact with these drawings and specifications shall constitute prima facie evidence of the acceptance of these restrictions.



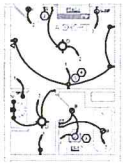
1 OFFICE - ELECTRICAL PLAN
1/4" = 1'-0"



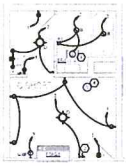
2 DOUBLE FULL SIZE ROOM AND HANDICAP - ELECTRICAL PLAN
1/4" = 1'-0"



3 KING ROOM AND HANDICAP ACC. KING ROOM - ELECTRICAL PLAN
1/4" = 1'-0"



4 A SHORT - ELECTRICAL PLAN
1/4" = 1'-0"



5 C SHORT - ELECTRICAL PLAN
1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS & EXACT PLACEMENT OF ALL DEVICES & EQUIPMENT. IN CASE OF ANY DISCREPANCIES, CONFLICTS WITH OTHER DRAWINGS, CONTACT ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING.
2. VERIFY AND FIELD VERIFY EXACT LOCATIONS OF ALL ELECTRICAL EQUIPMENT AND FIXTURES WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION OF EQUIPMENT.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS PRIOR TO PURCHASE OF EQUIPMENT OR FIXTURES.
4. FIRE ALARM SYSTEM: REFER TO FIRE ALARM PLANS FOR SCOPE OF WORK AND FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FIRE ALARM SYSTEM PERMIT PRIOR TO INSTALLATION.
5. ALL RECEPTACLES IN WET ROOMS SHALL BE TAMPER RESISTANT.

KEY NOTES:

1. COORDINATE FIRE ALARM CONTROL PANEL FACTORY LOCATION WITH ELECTRICAL CONTRACTOR. COORDINATE WITH FIRE ALARM DRAWINGS PRIOR TO INSTALLATION.
2. PROVIDE EXIT SIGNS AT LOCATIONS SHOWN ON PLANS AND AS REQUIRED BY CODE.
3. CONNECT EXHAUST FAN TO LIGHTING CIRCUIT IN CEILING. SWITCH IN THE WALL.
4. DEVICE TYPE AND SMOKE DETECTOR TO BE COORDINATED WITH OWNER.
5. SHOW ARROW INDICATING DIRECTION OF EXIT AT EXIT DOOR PER NFPA 101 LSC.

ISP

ARCHITECTURAL DESIGN + ASSOCIATES INC
AA26001959
801 S Yonge St. Suite 4
Ormond Beach, FL 32174
Ph. 386-676-2666

LA BRISA INN
5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

ELECTRICAL ENLARGED PLANS

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 07:31:51 -04'00'

E-SIGN

MITESH K. SMART
PROF. ENGINEER

NO.	DESCRIPTION	DATE

01-27-2023

SHEET NUMBER

E-401

CONSTRUCTION DOCUMENTS

LRP SCHEDULE

RELAY NO	DESCRIPTION	VOLTAGE
1	[illegible]	120
2	[illegible]	120
3	[illegible]	120
4	[illegible]	120
5	[illegible]	120
6	-	120
7	-	120
8	-	120

LIGHTING CONTROL PANEL GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE NEW LIGHTING CONTROL PANEL.

2. THE ELECTRICAL LIGHTING CONTROL SHALL CONTROL THE FOLLOWING THROUGHOUT ITS PROXIMITY (OPEN WIRING, DIRECTIVE, ALLEY, ETC.). THESE LIGHTS SHALL HAVE LOW-VOLTAGE OVERRIDES.

3. ALL OTHER ROOMS ARE NOT CONNECTED TO THE BUILDING LIGHTING CONTROL SYSTEM. THE LIGHTING CONTROL IN THESE ROOMS IS CONTROLLED BY INDIVIDUAL SWITCHES OR LOCAL MOTION SENSORS. REFER TO THE ALTERNATE SWITCH REQUIREMENT.

4. CONTRACTOR IS RESPONSIBLE FOR ALL TESTS AND PROGRAMMING OF LIGHTING CONTROLS.

NOTES OF LIGHTING:

1. THE LCP LIGHTING CONTROLS PROVIDES TIME OF DAY CONTROL FOR ALL LIGHTING AS WELL THE LIGHTS ARE NORMALLY NOT IN OPERATION CONTROLLED BY THE ASTRONOMICAL TIMER.

2. THE OCCUPANCY SENSOR FUNCTION AS PER USER SWITCHES. THE LIGHTS ARE TURNED ON BY THE OCCUPANCY SENSOR DURING THE NIGHT AND THE LIGHTS ARE TURNED OFF BY THE LIGHTING CONTROL FOR A PERIOD OF UP TO 30 MINUTES. THE OCCUPANCY SENSOR TURNS ON THE LIGHTS AT THE ZONE THEY ARE WIRED TO, TURN ON TO THE SPECIFIED TIME PERIOD.

AUTOMATIC INSTALLATION:

1. PRIOR TO INSTALLATION, BOTH THE INSTALLING ELECTRICAL PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEM DEVICE TO BE INSTALLED IS LISTED AND IDENTIFIED. INSTRUCTIONS AND MANUFACTURER'S CUT SHEETS ARE ALSO PROVIDED AND BE PROPERLY INSTALLED. THE INSTALLER SHALL BE CERTIFIED AND HAVE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS AVAILABLE AT THE TIME OF INSTALLATION. THE INSTALLER SHALL COMPLY WITH ALL CURRENT LOCAL AND STATE ENERGY CODE REQUIREMENTS.

LIGHTING FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	LAMP	VOLTAGE	MOUNTING	DESCRIPTION
A	[illegible]	[illegible]	LED	120 V	[illegible]	[illegible]
B	[illegible]	[illegible]	LED	120 V	[illegible]	[illegible]
C	[illegible]	[illegible]	LED	120 V	[illegible]	[illegible]
D	[illegible]	[illegible]	LED	120 V	[illegible]	[illegible]
E	[illegible]	[illegible]	LED	120 V	[illegible]	[illegible]
F	[illegible]	[illegible]	LED	120 V	[illegible]	[illegible]
G	[illegible]	[illegible]	LED	120 V	[illegible]	[illegible]
H	[illegible]	[illegible]	LED	120 V	[illegible]	[illegible]

LIGHTING FIXTURE SCHEDULE NOTES:

1. CATALOG NUMBERS AND MANUFACTURER ARE TO INDICATE TYPE AND QUALITY OF FIXTURE DESIRED. SUBMIT CUT SHEETS OF ALTERNATE MANUFACTURERS FOR ARCHITECT AND OWNER APPROVAL PRIOR TO PURCHASE OF ANY FIXTURES. APPROVED SAMPLE OF EQUAL QUALITY MUST BE DELIVERED TO SITE FOR INSPECTION PRIOR TO PURCHASE.

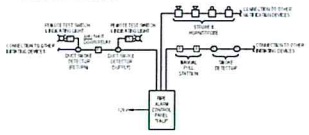
2. ALL LAMPS SHALL BE LED TYPE ONLY.

3. ALL EXTERIOR LIGHTING SHALL BE LOCATED OUT OF WATTLES TO AVOID INTERFERENCE.

4. ALL LIGHTING IN UNOCCUPIED AREA SHALL BE CONTROLLED BY OCCUPANCY SENSOR. REFER TO LIGHTING CONTROL PLAN.

NOTES:

1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED PER NFPA 72 AND THE APPROVED CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND SECURE A PERMIT PRIOR.



2 TYPICAL FIRE ALARM RISER DIAGRAM
N.T.S.

VOLTAGE DROP AND AIC CALCULATION

NO.	DESCRIPTION	AMP	VOLT	PH	WIRE SIZE	AWG	DIST (FT)	% V DROP	AIC
1	MDP # 1 (FROM TRANSFORMER)	1792	208	3	4 SETS - 600 MCM, 1#...	600	100	1.09%	10742
2	MDP # 2 (FROM TRANSFORMER)	1792	208	3	4 SETS - 600 MCM, 1#...	600	450	1.71%	10742
3	MDP # 1 PANEL A1	224	208	3	#4 CU	#4	70	0.31%	13896
4	MDP # 1 PANEL A2	224	208	3	#4 CU	#4	40	0.17%	13896
5	MDP # 1 PANEL A3 AC	672	208	3	2 SETS - #3/0 CU, 1#6 CU	#3	70	0.79%	11746
6	MDP # 1 PANEL A4 AC	672	208	3	2 SETS - #3/0 CU, 1#6 CU	#3	70	0.79%	11746
7	MDP # 1 PANEL B1	700	208	3	#4 CU	#4	110	0.51%	13896
8	MDP # 1 PANEL B2	700	208	3	#4 CU	#4	70	0.32%	13896
9	MDP # 1 PANEL B3 AC	672	208	3	#4 CU	#3	70	0.79%	11746
10	MDP # 1 PANEL B4 AC	672	208	3	#4 CU	#3	70	0.79%	11746

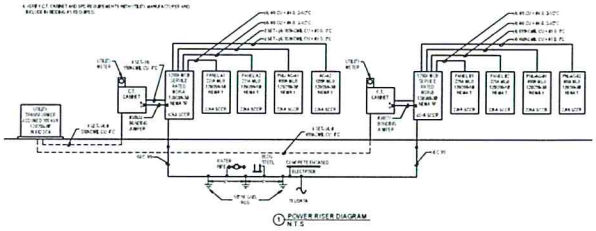
RISER NOTES:

1. CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY PRIOR TO START OF WORK AND SHALL INCLUDE ALL NECESSARY EQUIPMENT, CABINET, HARDWARE AND ACCESSORIES, TRANSFORMER ACCESS VAULT, SERVICE METERING AND CONDUIT SYSTEMS AS PER UTILITY COMPANY REQUIREMENTS.

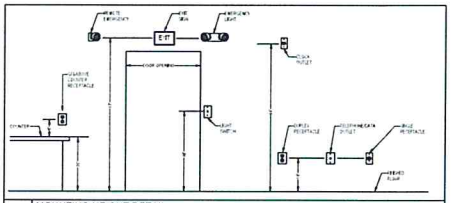
2. PRIOR TO START OF THE WORK, CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF POINT OF CONNECTION AND NOTIFY OWNER IF THERE IS ANY DISCREPANCY.

3. PANEL MDP IS PROGRAMMABLE TYPE ELECTRONIC PANEL.

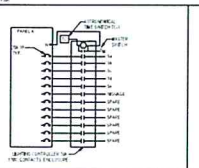
4. VERIFY CT CABINET AND SPECIFIC REQUIREMENTS WITH UTILITY COMPANY BEFORE ORDERING AND INSTALLING.



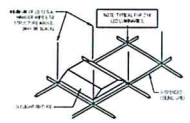
1 POWER RISER DIAGRAM
N.T.S.



01 MOUNTING HEIGHT DETAIL
N.T.S.



02 LIGHTING CONTROL PANEL DETAIL
N.T.S.



03 LIGHT SUPPORT DETAIL
N.T.S.

ISP

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PANAMA CITY, FLORIDA

ELECTRICAL RISER, PANEL SCHEDULES AND DETAILS

Mitesh Smart — Digitally signed by Mitesh Smart Date: 2023.01.27 07:32:32 -04'00'

E-SIGN

STATE OF FLORIDA — LICENSE No. 82772 — MITESH K. SMART — PROFESSIONAL ENGINEER

SEAL

MITESH K. SMART
PROF. ENGINEER

NUM	DATE	DESCRIPTION

01-27-2023

SHEET NUMBER

E-501

CONSTRUCTION DOCUMENTS

Branch Panel: A1

Location: COMMON
Supply From: MDP-A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 V 3ph
Phases: 3
Wires: 4

A.I.C. Rating: 22 kA
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	C/T	Wire Size (PH,NU,G)	Brkr	A (VA)	B (VA)	Brkr	Wire Size (PH,NU,G)	C/T	Circuit Description	CKT
1	1.1 HALL/OFFICE	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.2 LOBBY	2
3	1.3 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.4 LOBBY	4
5	1.5 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.6 LOBBY	6
7	1.7 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.8 LOBBY	8
9	1.9 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.10 LOBBY	10
11	SHORT RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	SHORT LOBBY	12
13	1.13 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.14 LOBBY	14
15	1.15 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.16 LOBBY	16
17	1.17 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.18 LOBBY	18
19	SHORT RECEPTION	1	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1 Pole	1200	576	1 Pole	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1	1.20 LOBBY	20
21	1.21 RECEPTION	1	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1 Pole	1440	720	1 Pole	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1	1.22 LOBBY	22
23	ACU-1 (1.23 RECEPTION)	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1440	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	ACU-2 (1.24 LOBBY)	24
25	ACU-1 (1.25 RECEPTION)	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1440	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	ACU-2 (1.26 LOBBY)	26
27	ACU-1 (1.27 RECEPTION)	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1440	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	ACU-2 (1.28 LOBBY)	28
29	1.29 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.30 LOBBY	30
31	1.31 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.32 LOBBY	32
33	1.33 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.34 LOBBY	34
35	1.35 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.36 LOBBY	36
37	SHORT RECEPTION	1	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1 Pole	1200	576	1 Pole	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1	1.38 LOBBY	38
39	1.39 RECEPTION	1	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1 Pole	1440	720	1 Pole	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1	1.40 LOBBY	40
41	ACU-1 (1.41 RECEPTION)	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1440	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	ACU-2 (1.42 LOBBY)	42
43	ACU-1 (1.43 RECEPTION)	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1440	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	ACU-2 (1.44 LOBBY)	44
45	1.45 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.46 LOBBY	46
47	1.47 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.48 LOBBY	48
49	1.49 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.50 LOBBY	50
51	1.51 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.52 LOBBY	52
53	1.53 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.54 LOBBY	54
55	1.55 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	1.56 LOBBY	56
57	SPARE	-	-	-			-	-	-	SPARE	58
59	SPARE	-	-	-			-	-	-	SPARE	60
61	SPARE	-	-	-			-	-	-	SPARE	62
63	SPARE	-	-	-			-	-	-	SPARE	64
65	SPARE	-	-	-			-	-	-	SPARE	66
67	SPARE	-	-	-			-	-	-	SPARE	68
69	SPARE	-	-	-			-	-	-	SPARE	70
71	SPARE	-	-	-			-	-	-	SPARE	72
73	SPARE	-	-	-			-	-	-	SPARE	74
75	SPARE	-	-	-			-	-	-	SPARE	76
77	SPARE	-	-	-			-	-	-	SPARE	78
79	SPARE	-	-	-			-	-	-	SPARE	80
81	SPARE	-	-	-			-	-	-	SPARE	82
83	SPARE	-	-	-			-	-	-	SPARE	84
85	SPARE	-	-	-			-	-	-	SPARE	86
87	SPARE	-	-	-			-	-	-	SPARE	88
89	SPARE	-	-	-			-	-	-	SPARE	90
91	SPARE	-	-	-			-	-	-	SPARE	92
93	SPARE	-	-	-			-	-	-	SPARE	94
					0 VA	0 VA					
					Total Load: 11,520 VA	Total Load: 11,136 VA					
					Total Amps: 96 A	Total Amps: 93 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
LIGHTING LOAD	5,760 VA	125.00%	7,200 VA	Total Conn. Load: 23,904 VA
EQUIPMENT LOAD	16,144 VA	69.90%	11,286 VA	Total Est. Demand: 18,486 VA
				Total Conn.: 198 A
				Total Est. Demand: 154 A

Notes:
PROVIDE AND INSTALL PANEL A1 TYPICAL POSITION SECTION. MAY BE COMBINED INTO A SINGLE 84 POSITION PANEL WITH AHJ APPROVAL

Branch Panel: A2

Location: COMMON
Supply From: MDP-A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 V 3ph
Phases: 3
Wires: 4

A.I.C. Rating: 22 kA
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	C/T	Wire Size (PH,NU,G)	Brkr	A (VA)	B (VA)	Brkr	Wire Size (PH,NU,G)	C/T	Circuit Description	CKT
1	2.1 HALL/OFFICE	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.2 LOBBY	2
3	2.3 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.4 LOBBY	4
5	2.5 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	SHORT LOBBY	6
7	2.7 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.8 LOBBY	8
9	2.9 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.10 LOBBY	10
11	2.11 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.12 LOBBY	12
13	2.13 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.14 LOBBY	14
15	2.15 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.16 LOBBY	16
17	2.17 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.18 LOBBY	18
19	SHORT RECEPTION	1	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1 Pole	1200	576	1 Pole	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1	2.20 LOBBY	20
21	2.21 RECEPTION	1	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1 Pole	1440	720	1 Pole	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1	2.22 LOBBY	22
23	ACU-1 (2.23 RECEPTION)	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1440	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	ACU-2 (2.24 LOBBY)	24
25	ACU-1 (2.25 RECEPTION)	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1440	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	ACU-2 (2.26 LOBBY)	26
27	ACU-1 (2.27 RECEPTION)	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1440	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	ACU-2 (2.28 LOBBY)	28
29	2.29 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.30 LOBBY	30
31	2.31 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.32 LOBBY	32
33	2.33 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.34 LOBBY	34
35	2.35 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.36 LOBBY	36
37	SHORT RECEPTION	1	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1 Pole	1200	576	1 Pole	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1	2.38 LOBBY	38
39	2.39 RECEPTION	1	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1 Pole	1440	720	1 Pole	2 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	1	2.40 LOBBY	40
41	ACU-1 (2.41 RECEPTION)	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1440	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	ACU-2 (2.42 LOBBY)	42
43	ACU-1 (2.43 RECEPTION)	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1440	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	ACU-2 (2.44 LOBBY)	44
45	2.45 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.46 LOBBY	46
47	2.47 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.48 LOBBY	48
49	2.49 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.50 LOBBY	50
51	2.51 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.52 LOBBY	52
53	2.53 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole	1200	1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.54 LOBBY	54
55	2.55 RECEPTION	3/4	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	2 Pole		1152	2 Pole	3 #12 THHN, 1 #12 THHN, 1 #12 THHN, 1 #12 THHN, 3/4" C	3/4	2.56 LOBBY	56
57	SPARE	-	-	-			-	-	-	SPARE	58
59	SPARE	-	-	-			-	-	-	SPARE	60
61	SPARE	-	-	-			-	-	-	SPARE	62
63	SPARE	-	-	-			-	-	-	SPARE	64
65	SPARE	-	-	-			-	-	-	SPARE	66
67	SPARE	-	-	-			-	-	-	SPARE	68
69	SPARE	-	-	-			-	-	-	SPARE	70
71	SPARE	-	-	-			-	-	-	SPARE	72
73	SPARE	-	-	-			-	-	-	SPARE	74
75	SPARE	-	-	-			-	-	-	SPARE	76
77	SPARE	-	-	-			-	-	-	SPARE	78
79	SPARE	-	-	-			-	-	-	SPARE	80
81	SPARE	-	-	-			-	-	-	SPARE	82
83	SPARE	-	-	-			-	-	-	SPARE	84
					0 VA	0 VA					
					Total Load: 11,520 VA	Total Load: 11,136 VA					
					Total Amps: 96 A	Total Amps: 93 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
LIGHTING LOAD	5,760 VA	125.00%	7,200 VA	Total Conn. Load: 23,904 VA
EQUIPMENT LOAD	16,144 VA	69.90%	11,286 VA	Total Est. Demand: 18,486 VA
				Total Conn.: 198 A
				Total Est. Demand: 154 A

Notes:
PROVIDE AND INSTALL PANEL A2 TYPICAL POSITION SECTION. MAY BE COMBINED INTO A SINGLE 84 POSITION PANEL WITH AHJ APPROVAL

Branch Panel: AC-A1

Location: COMMON
Supply From: MDP-A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 V 3ph
Phases: 3
Wires: 4

A.I.C. Rating: 22 kA
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	C/T	Wire Size (PH,NU,G)	Brkr	A (VA)	B (VA)	C (VA)	Brkr	Wire Size (PH,NU,G)	C/T	Circuit Description	CKT
1	1.1 RTU-1	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole	4000	4000		2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	1.2 RTU-2	2
3	1.3 RTU-3	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole		4000	4000	2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	1.4 RTU-4	4
5	1.5 RTU-5	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole	4000	4000		2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	1.6 RTU-6	6
7	1.7 RTU-7	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole		4000	4000	2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	1.8 RTU-8	8
9	1.9 RTU-9	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole	4000	4000		2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	1.10 RTU-10	10
11	1.11 RTU-11	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole		4000	4000	2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	1.12 RTU-12	12
13	SHORT RTU-13	1	2 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	1 Pole	4000	4000		1 Pole	2 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	1	1.14 RTU-14	14
15	1.15 RTU-15	1	2 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	1 Pole		4000	4000	1 Pole	2 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	1	1.16 RTU-16	16
17	1.17 RTU-17	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole	4000	4000		2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	ACU-2 (1.18 RTU-18)	18
19	ACU-1 (1.19 RTU-19)	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole		4000	4000	2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	ACU-2 (1.20 RTU-20)	20
21	ACU-1 (1.21 RTU-21)	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole	4000	4000		2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	ACU-2 (1.22 RTU-22)	22
23	ACU-1 (1.23 RTU-23)	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole		4000	4000	2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	ACU-2 (1.24 RTU-24)	24
25	ACU-1 (1.25 RTU-25)	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole	4000	4000		2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	ACU-2 (1.26 RTU-26)	26
27	ACU-1 (1.27 RTU-27)	1	2 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	1 Pole		4000	4000	1 Pole	2 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	1	ACU-2 (1.28 RTU-28)	28
29	SPARE	-	-	-				-	-	-	SPARE	30
31	SPARE	-	-	-				-	-	-	SPARE	32
33	SPARE	-	-	-				-	-	-	SPARE	34
35	SPARE	-	-	-				-	-	-	SPARE	36
37	SPARE	-	-	-				-	-	-	SPARE	38
39	SPARE	-	-	-				-	-	-	SPARE	40
41	SPARE	-	-	-				-	-	-	SPARE	42
					0 VA	0 VA	0 VA					
					Total Load: 48,000 VA	Total Load: 48,000 VA	Total Load: 48,000 VA					
					Total Amps: 400 A	Total Amps: 400 A	Total Amps: 400 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC LOAD	144,000 VA	100.00%	144,000 VA	Total Conn. Load: 144,000 VA
				Total Est. Demand: 144,000 VA
				Total Conn.: 1,200 A
				Total Est. Demand: 1,200 A

Notes:
PROVIDE AND INSTALL PANEL A1 TYPICAL POSITION SECTION. MAY BE COMBINED INTO A SINGLE 84 POSITION PANEL WITH AHJ APPROVAL

Branch Panel: AC-A2

Location: COMMON
Supply From: MDP-A
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 V 3ph
Phases: 3
Wires: 4

A.I.C. Rating: 22 kA
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	C/T	Wire Size (PH,NU,G)	Brkr	A (VA)	B (VA)	C (VA)	Brkr	Wire Size (PH,NU,G)	C/T	Circuit Description	CKT
1	2.1 RTU-1	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole	4000	4000		2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	2.2 RTU-2	2
3	2.3 RTU-3	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole		4000	4000	2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	2.4 RTU-4	4
5	2.5 RTU-5	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole	4000	4000		2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	2.6 RTU-6	6
7	2.7 RTU-7	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole		4000	4000	2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	2.8 RTU-8	8
9	2.9 RTU-9	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole	4000	4000		2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	2.10 RTU-10	10
11	2.11 RTU-11	3/4	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	2 Pole		4000	4000	2 Pole	3 #8 THHN, 1 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	3/4	2.12 RTU-12	12
13	SHORT RTU-13	1	2 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	1 Pole	4000	4000		1 Pole	2 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	1	2.14 RTU-14	14
15	2.15 RTU-15	1	2 #8 THHN, 1 #8 THHN, 1 #8 THHN, 3/4" C	1 Pole		4000	4000	1

Branch Panel: B1

Location: CORRIDOR
Supply From: MDP-B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 3-wye
Phases: 3
Wires: 3

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

Ckt	Circuit Description	C (*)	Wire Size (PH,NEU,G)	Brkr	A (VA)	B (VA)	Brkr	Wire Size (PH,NEU,G)	C (*)	Circuit Description	Ckt
1	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	720		1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	2
3	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1440	1440	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	4
5	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	6
7	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	8
9	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	10
11	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	12
13	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	14
15	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	16
17	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	18
19	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	20
21	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	22
23	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	24
25	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	26
27	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	28
29	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	30
31	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	32
33	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	34
35	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	36
37	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	38
39	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	40
41	A-KLICHEN RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1440	1080	1#12, 1#12, 1#12, G	3/4	A-KICH (LIGHTS)	42
43	A-KLICHEN RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1440	1080	1#12, 1#12, 1#12, G	3/4	A-KICH (LIGHTS)	44
45	SPARE	--	--	--	--	--	--	--	--	SPARE	46
47	SPARE	--	--	--	--	--	--	--	--	SPARE	48
49	SPARE	--	--	--	--	--	--	--	--	SPARE	50
51	SPARE	--	--	--	--	--	--	--	--	SPARE	52
53	SPARE	--	--	--	--	--	--	--	--	SPARE	54
55	SPARE	--	--	--	--	--	--	--	--	SPARE	56
57	SPARE	--	--	--	--	--	--	--	--	SPD	58
			Total Load	14411 VA	11815 VA	1440 VA					
			Total Amps	120 A	98 A	12 A					

Legend

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
LIGHTING (LIGHT)	2255 VA	100.00%	2255 VA	
RECEPTACLE (LIGHT)	12156 VA	68.80%	8715 VA	Total Conn. Load: 14411 VA
				Total Est. Demand: 10970 VA
				Total Conn.: 120 A
				Total Est. Demand: 91 A

Notes:
PROCURE AND INSTALL PANEL AS TWO (2) POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 42 POSITION PANEL WITH AHJ APPROVAL.

Branch Panel: AC-B1

Location: CORRIDOR
Supply From: MDP-B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:

Ckt	Circuit Description	C (*)	Wire Size (PH,NEU,G)	Brkr	A (VA)	B (VA)	C (VA)	Brkr	Wire Size (PH,NEU,G)	C (*)	Circuit Description	Ckt
1	A-L2.1 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.2 PTAC-1	2
3	A-L2.3 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.4 PTAC-1	4
5	A-L2.5 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.6 PTAC-1	6
7	A-L2.7 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.8 PTAC-1	8
9	A-L2.9 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.10 PTAC-1	10
11	A-L2.11 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.12 PTAC-1	12
13	SPARE	--	--	--	--	--	--	--	--	SPARE	14
15	SPARE	--	--	--	--	--	--	--	--	SPARE	16
17	SPARE	--	--	--	--	--	--	--	--	SPARE	18
19	SPARE	--	--	--	--	--	--	--	--	SPARE	20
21	SPARE	--	--	--	--	--	--	--	--	SPARE	22
23	SPARE	--	--	--	--	--	--	--	--	SPARE	24
			Total Load	10080 VA	10080 VA	0 VA					
			Total Amps	84 A	84 A	0 A					

Legend

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC (LOAD)	17920 VA	100.00%	17920 VA	
				Total Conn. Load: 17920 VA
				Total Est. Demand: 17920 VA
				Total Conn.: 84 A
				Total Est. Demand: 84 A

Notes:
PROCURE AND INSTALL PANEL AS TWO (2) POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 42 POSITION PANEL WITH AHJ APPROVAL.

Switchboard: MDP-B

Location: BUILDING B
Supply From: UTILITY TRANSFORMER
Mounting: SURFACE
Enclosure: NEMA 3R

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65 kAIC
Mains Type: MCB
Mains Rating: 1,200 A
MCB Rating: 1,200 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Amps
1	PANEL AC-B1	3	400 A	400 A	17920 VA	
2	PANEL AC-B2	3	400 A	400 A	17920 VA	
3	PANEL B1	3	225 A	225 A	14411 VA	
4	PANEL B2	3	225 A	225 A	13564 VA	
5						
6	SPD	3	125 A	125 A	0 VA	
				Total Conn. Load:	63815 VA	
				Total Amps:	184 A	

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC (LOAD)	35840 VA	100.00%	35840 VA	
LIGHTING (LOAD)	2255 VA	100.00%	2255 VA	Total Conn. Load: 63815 VA
RECEPTACLE (LOAD)	25956 VA	68.80%	17855 VA	Total Est. Demand: 55950 VA
				Total Conn.: 184 A
				Total Est. Demand: 162 A

Notes:

Branch Panel: B2

Location: CORRIDOR
Supply From: MDP-B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 3-wye
Phases: 3
Wires: 3

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

Ckt	Circuit Description	C (*)	Wire Size (PH,NEU,G)	Brkr	A (VA)	B (VA)	Brkr	Wire Size (PH,NEU,G)	C (*)	Circuit Description	Ckt
1	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	720		1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	2
3	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1440	1440	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	4
5	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	6
7	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	8
9	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	10
11	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	12
13	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	14
15	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	16
17	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	18
19	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	20
21	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	22
23	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	24
25	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	26
27	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	28
29	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	30
31	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	32
33	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	34
35	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	36
37	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	38
39	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1080	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	40
41	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1440	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	42
43	A-LIVING RECEPTACLE	3/4	1#12, 1#12, 1#12, G	20 A/1	1800	1440	1080	1#12, 1#12, 1#12, G	3/4	A-LIV (LIGHTS)	44
45	SPARE	--	--	--	--	--	--	--	--	SPARE	46
47	SPARE	--	--	--	--	--	--	--	--	SPARE	48
49	SPARE	--	--	--	--	--	--	--	--	SPARE	50
51	SPARE	--	--	--	--	--	--	--	--	SPARE	52
53	SPARE	--	--	--	--	--	--	--	--	SPARE	54
55	SPARE	--	--	--	--	--	--	--	--	SPARE	56
57	SPARE	--	--	--	--	--	--	--	--	SPD	58
			Total Load	12241 VA	11815 VA	1440 VA					
			Total Amps	102 A	98 A	12 A					

Legend

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
LIGHTING (LIGHT)	4787 VA	100.00%	4787 VA	
RECEPTACLE (LIGHT)	12156 VA	68.80%	11181 VA	Total Conn. Load: 16943 VA
				Total Est. Demand: 15521 VA
				Total Conn.: 141 A
				Total Est. Demand: 129 A

Notes:
PROCURE AND INSTALL PANEL AS TWO (2) POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 42 POSITION PANEL WITH AHJ APPROVAL.

Branch Panel: AC-B2

Location: CORRIDOR
Supply From: MDP-B
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kA
Mains Type: MLO
Mains Rating: 400 A
MCB Rating:

Notes:

Ckt	Circuit Description	C (*)	Wire Size (PH,NEU,G)	Brkr	A (VA)	B (VA)	C (VA)	Brkr	Wire Size (PH,NEU,G)	C (*)	Circuit Description	Ckt
1	A-L2.13 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.14 PTAC-1	2
3	A-L2.15 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.16 PTAC-1	4
5	A-L2.17 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.18 PTAC-1	6
7	SPARE	--	--	--	--	--	--	--	--	SPARE	8
9	A-L2.19 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.20 PTAC-1	10
11	A-L2.21 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.22 PTAC-1	12
13	A-L2.23 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.24 PTAC-1	14
15	A-L2.25 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.26 PTAC-1	16
17	A-L2.27 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.28 PTAC-1	18
19	A-L2.29 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.30 PTAC-1	20
21	A-L2.31 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.32 PTAC-1	22
23	A-L2.33 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.34 PTAC-1	24
25	A-L2.35 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.36 PTAC-1	26
27	A-L2.37 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.38 PTAC-1	28
29	A-L2.39 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.40 PTAC-1	30
31	A-L2.41 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.42 PTAC-1	32
33	A-L2.43 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.44 PTAC-1	34
35	A-L2.45 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.46 PTAC-1	36
37	A-L2.47 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.48 PTAC-1	38
39	A-L2.49 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.50 PTAC-1	40
41	A-L2.51 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.52 PTAC-1	42
43	A-L2.53 PTAC-1	3/4	2#10, 1#10, 1#10, G	30 A/2	1440	1440		2#10, 1#10, 1#10, G	3/4	A-L2.54 PTAC-1	44
45	SPARE	--	--	--	--	--	--	--	--	SPARE	46
47	SPARE	--	--	--	--	--	--	--	--	SPARE	48
49	SPARE	--	--	--	--	--	--	--	--	SPARE	50
51	SPARE	--	--	--	--	--	--	--	--	SPARE	52
53	SPARE	--	--	--	--	--	--	--	--	SPARE	54
55	SPARE	--	--	--	--	--	--	--	--	SPARE	56
57	SPARE	--	--	--	--	--	--	--	--	SPD	58
			Total Load	13824 VA	13824 VA	13824 VA					
			Total Amps	115 A	115 A	115 A					

Legend

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC (LOAD)	41472 VA	100.00%	41472 VA	
				Total Conn. Load: 41472 VA
				Total Est. Demand: 41472 VA
				Total Conn.: 115 A
				Total Est. Demand: 115 A

Notes:
PROCURE AND INSTALL PANEL AS TWO (2) POSITION SECTIONS. MAY BE COMBINED INTO A SINGLE 42 POSITION PANEL WITH AHJ APPROVAL.

ISP
INTERNATIONAL SPACES PARTNERS, LLC
190 S.E. 6 WAY AVE., UNIT 16
DANIA BEACH, FL 33176
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AA26001959
601 S. Yonge St. Suite 4
Ormond Beach, FL 32174
Ph. 386-676-2060

LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

PANEL SCHEDULES

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 07:34:40 -04'00'

E-SIGN

SEAL

MITESH K. SMART
PROF. ENGINEER

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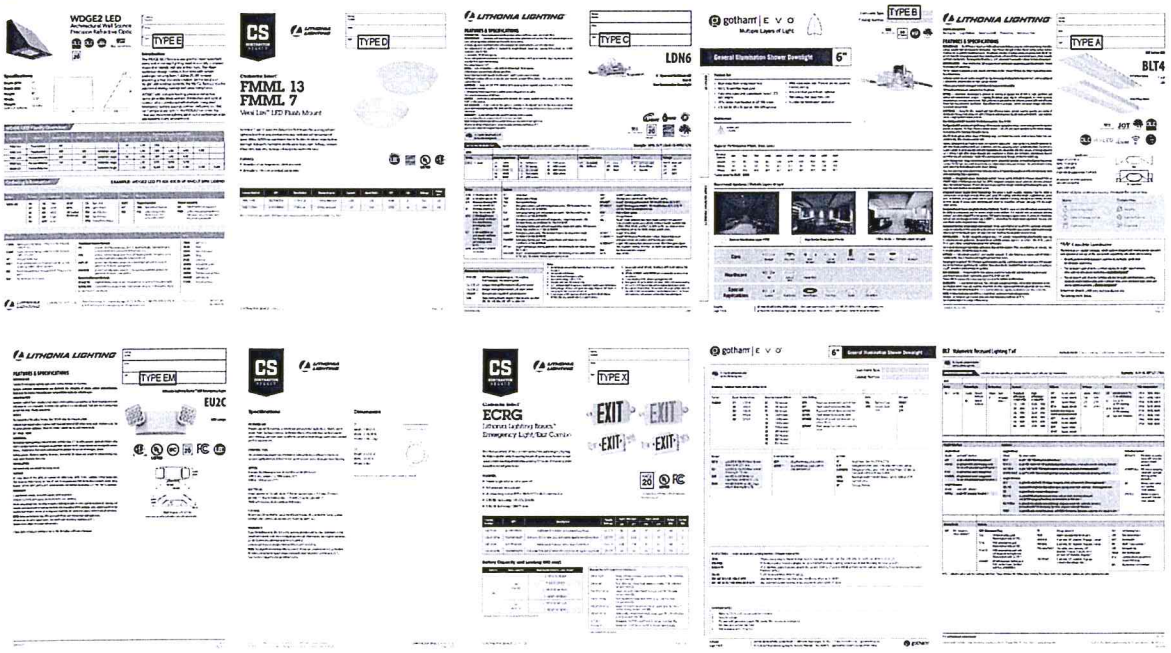
01-27-2023

SHEET NUMBER

E-602

CONSTRUCTION DOCUMENTS

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LA BRISA INN

5711 EAST HIGHWAY 98,
PANAMA CITY, FLORIDA

LIGHTING SPECIFICATIONS

Mitesh Smart
Digitally signed by Mitesh Smart
Date: 2023.01.27 07:35:25 -04'00'

E-SIGN

MITESH K. SMART LIC. NO. 52772 STATE OF FLORIDA PROFESSIONAL ENGINEER

SEAL

MITESH K SMART
PROF. ENGINEER

DESCRIPTION	DATE

01-27-2023

SHEET NUMBER

E-901

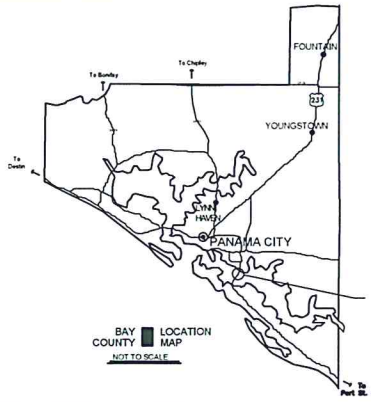
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ELECTRICAL DOCUMENTS

REPAIR DRAWINGS FOR:
LA BRISA INN
5711 EAST HWY 98
PANAMA CITY, FLORIDA

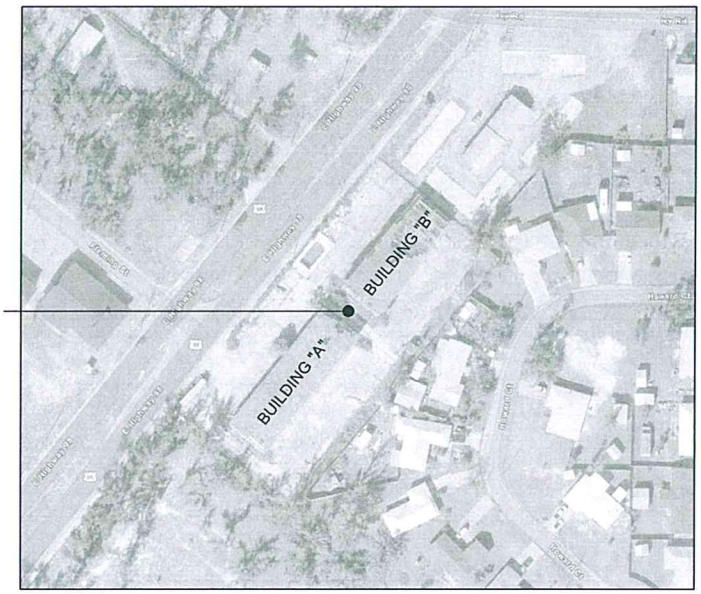
PROJECT INFO:
PARCEL NUMBER - 25818-040-000
LAND USE ZONING - GENERAL COMMERCIAL (PKR)
FLOOD ZONE - X
SQ. FT. CALCULATIONS:
BUILDING "A" TOTAL HEATED AND COOLED - 16,596 SQ. FT.
BUILDING "B" TOTAL HEATED AND COOLED - 12,800 SQ. FT.
BUILDING "A" FOOTPRINT - 11,408 SQ. FT.
BUILDING "B" FOOTPRINT - 9,022 SQ. FT.
AREA OF LOT - 1.882 ACRES
BUILDING CLASSIFICATION (BOTH BUILDINGS) - R-1 TYPE III

ANY MODIFICATIONS, WHETHER IN-FIELD OR PRIOR TO CONSTRUCTION, MUST BE SUBMITTED, REVIEWED, AND APPROVED BY THE EOR BEFORE MODIFICATIONS TAKE PLACE. MK WEBER BEARS NO LIABILITY FOR ANY MODIFICATIONS MADE OUTSIDE OF THIS SIGNED AND SEALED PLAN SET WITHOUT PRIOR APPROVAL. ANY REQUESTS FOR MODIFICATIONS, WHETHER PRIOR TO CONSTRUCTION OR IN-FIELD, MUST BE SUBMITTED TO THE EOR IN WRITING. THE OWNER AND/OR CONTRACTOR UNDERSTANDS THAT ANY REQUESTED MODIFICATIONS TO THE PLAN SET MAY TAKE SEVERAL WEEKS TO PROCESS AND SHOULD PLAN ACCORDINGLY. THERE IS NO GUARANTEE THAT REQUESTED MODIFICATIONS WILL BE APPROVED. ANY MODIFICATIONS REQUESTED MUST BE REFLECTED IN A REVISED SET OF DRAWINGS THAT BEAR THE EOR'S SIGNATURE AND SEAL.



SITE LOCATION

5711 EAST HWY 98



AERIAL MAP VIEW
NOT TO SCALE

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BUILDING "A" SECOND FLOOR DAMAGE LAYOUT	S2.1
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STUCCO WALL SYSTEM DETAIL	S3.2
LOBBY HEADER DETAIL	S3.3
TYP. WALL REPAIR DETAIL	S3.4
TYP. DETAILS	S3.5

MK WEBER
structural engineering
3200 W. 23RD STREET
PANAMA CITY, FL 32405
MKWEBER.COM
FL CERTIFICATE OF AUTHORIZATION # 33120

MICHAEL K. WEBER LICENSE No. 75798 STATE OF FLORIDA PROFESSIONAL ENGINEER
Michael K Weber
Digitally signed by Michael K Weber
Date: 2022.09.15 09:35:05 -05'00'

EOR: MICHAEL K. WEBER P.E.
STRUCTURAL ENGINEER
FLORIDA P.E. # 75798

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REPAIR DRAWINGS FOR:
LA BRISA INN
5711 EAST HWY 98
PANAMA CITY, FLORIDA

REV.	DESCRIPTION	DATE

JOB NUMBER	20157-2
DRAWN BY	JCC
CHECKED BY	MKW
PLOT DATE	8/19/2022

SHEET TITLE: COVER SHEET

DRAWING NUMBER: C0.0

STRUCTURAL NOTES

GENERAL

1. DESIGN CODE DATA
   - 2018 INTERNATIONAL BUILDING CODE (IF APPLICABLE)
   - 2020 FLORIDA STATE BUILDING CODE
   - ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
   - ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY
   - ANSI/AF&PA NDS-2005, NATIONAL DESIGN SPECIFICATION FOR WOOD STRUCTURE
   - ACI 530-09/ ASCE 5-09/ TMS 402/602-16 BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES

2. BUILDING OCCUPANCY CATEGORY= II (PER ASCE 7-16 TABLE 1-1).

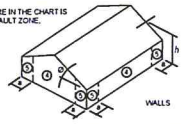
3. DESIGN LOADS.
   - DEAD LOADS: ROOF/FLOOR = 20 PSF
   - LIVE LOADS: ROOF = 20 PSF

   WIND SPEED = 140 MPH (ULT)
   EXPOSURE = C
   ENCLOSURE CLASSIFICATION = ENCLOSED
   Kd= 0.85
   KZT= 1.0
   BASE VELOCITY PRESSURE, QH= 40.2 PSF
   - FLOOR LIVE LOADS: 1ST STORY = 40 PSF
   - FLOOR LIVE LOADS: 2ND STORY = 40 PSF

COMPONENTS AND CLADDING				
ROOFS	DESIGN PRESSURE (ULT)		DESIGN PRESSURE (ASD)	
TRIBUTARY AREA 10 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)
ZONE 1 max	28.8	87.6	17.3	52.6
ZONE 2 max	28.8	127.8	17.3	76.7
ZONE 3 max	28.8	152.0	17.3	91.2
TRIBUTARY AREA 100 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)
ZONE 1 max	19.3	27.3	11.6	16.4
ZONE 2 max	19.3	70.3	11.6	42.2
ZONE 3 max	19.3	79.6	11.6	47.8
WALLS	DESIGN PRESSURE		DESIGN PRESSURE	
TRIBUTARY AREA 10 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)
ZONE 4	47.4	51.5	28.5	30.9
ZONE 5	47.4	63.5	28.5	38.1
TRIBUTARY AREA 100 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)
ZONE 4	40.3	44.3	24.2	26.6
ZONE 5	40.3	49.3	24.2	29.6

* WHEN SUB-ZONES ARE SHOWN, THE PRESSURE IN THE CHART IS BASED UPON THE MAX PRESSURE IN THE DEFAULT ZONE.

EXAMPLE: ZONE 3 CONTAINS THE MAX PRESSURE FOR ALL SUB-ZONES OF THE # 3, SUCH AS 3E & 3R



SEE FBC R301.2(7) FOR FULL PICTORIAL OF DESIGN PRESSURES

MATERIAL SPECIFICATIONS

CONCRETE

FOOTINGS AND FOUNDATION WALLS — 3,500 PSI @ 28 DAYS
SLAB ON GRADE — 3,500 PSI @ 28 DAYS
ALL OTHER CIP CONCRETE NOT NOTED — 3,500 PSI @ 28 DAYS
CONCRETE REINFORCING STEEL — 60 KSI, ASTM A615
WELDED WIRE REINFORCEMENT — 65 KSI, ASTM A185
ANCHOR RODS — ASTM F1554 (SEE SCHEDULE FOR GRADE)
ADHESIVE ANCHORS — HILTI HAS-E THREADED ROD WITH HIT HY INJECTION ADHESIVE OR EQUAL
MECHANICAL ANCHORS — HILTI KWIK BOLT III OR EQUAL
POWDER DRIVEN FASTENERS — HILTI DS OR EQUAL

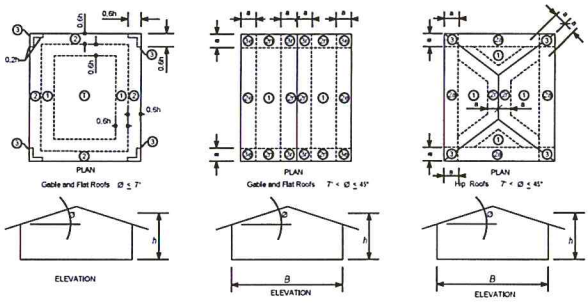
MASONRY

CONCRETE MASONRY UNITS — F'm= 1,500 PSI, ASTM C90 NORMAL WEIGHT UNITS
MORTAR: TYPE S- BELOW GRADE — 1,800 PSI, ASTM C270
MORTAR: TYPE N- ABOVE GRADE — 750 PSI, ASTM C270
MASONRY GROUT — 3,000 PSI, ASTM C476
MASONRY REINFORCING STEEL — 60 KSI, ASTM A615
JOINT REINFORCEMENT — #9, ASTM A82

STEEL
L 5x3-1/2x5/16, Fy = 50 KSI

GENERAL (CONTINUED)

4. MAXIMUM ALLOWABLE DEFLECTION CRITERIA
   - ROOF: L/360 LIVE LOAD, L/240 TOTAL LOAD
   - FLOORS: L/480 LIVE LOAD, L/360 TOTAL LOAD (WOOD I-JOISTS ONLY)
   - FLOORS: L/360 LIVE LOAD, L/240 TOTAL LOAD
5. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON OR EXISTING STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND ALL JOB SITE SAFETY.
8. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO THE START OF CONSTRUCTION - RESOLVE ANY DISCREPANCY WITH DESIGNER / ENGINEER. DO NOT SCALE DRAWINGS.
9. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL AND OTHER DESIGN CONSULTANT'S DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS. ANY APPARENT DISCREPANCIES, LIMITATIONS OR CONCERNS RESULTING FROM THIS COORDINATION SHOULD BE RESOLVED WITH THE DESIGNER / ENGINEER IMMEDIATELY.
10. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTING. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY IMMEDIATELY.
11. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF ALL BUILDING MATERIALS AND COMPONENTS. COMPONENT LOCATIONS ARE SHOWN FOR DESIGN INTENT, NOT EXACT LOCATION. SPECIFICALLY, INDEPENDENTLY PREPARED SHOP DRAWINGS ARE REQUIRED OF ALL TRADES FOR COORDINATION AND BEST PRACTICE. ERRORS OR OMISSIONS IN INSTALLATION DUE TO THE CONTRACTOR'S FAILURE TO COORDINATE THE WORK WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



CONCRETE CONSTRUCTION

1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 318, ACI 315, ACI 301, AND ACI 307.
2. ALL CONCRETE, UNLESS SPECIFICALLY NOTED, SHALL BE NORMAL WEIGHT (145 PCF).
3. THE COMPRESSIVE STRENGTH OF ALL GROUT USED TO PROVIDE LEVEL BEARING OF COLUMN BASE PLATES SHALL MEET OR EXCEED THE COMPRESSIVE STRENGTH OF THE SUPPORTING CONCRETE MEMBER.
4. CONCRETE REINFORCING SHALL HAVE THE FOLLOWING MINIMUM PROTECTIVE COVER
   CONCRETE CAST AGAINST EARTH = 3"
   CONCRETE EXPOSED TO EARTH OR WEATHER
   - #6 THROUGH #18 BARS = 2"
   - #5 BAR AND SMALLER = 1-1/2"

   CONCRETE WITH INTERIOR EXPOSURE: SLABS, WALLS, JOISTS
   - #14 AND #18 BARS = 1-1/2"
   - #11 BAR AND SMALLER = 3/4"
5. UNLESS NOTED OTHERWISE ON THE DRAWINGS ALL REINFORCING SHALL BE LAPPED TO DEVELOP ITS CAPACITY AS FOLLOWS: (SEE TABLE FOLLOWING THIS SECTION)
6. SLAB-ON-GRADE SHALL HAVE CLASS 'A' TOLERANCE.
7. A 6-MIL (MIN.) POLYETHYLENE VAPOR BARRIER WITH JOINTS LAPPED NOT LESS THAN 6" SHALL BE PLACED BETWEEN THE SAND BASE AND THE CONCRETE FLOOR.
8. CALCIUM CHLORIDE AND OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
9. PLACING OF CONCRETE SHALL BE DONE IN CONFORMANCE WITH ACI-306 FOR COLD WEATHER AND ACI-305 FOR HOT WEATHER.

BAR SIZES	STANDARD	TOP BAR	"B" SPLICE	HOOK
#3	13"	16"	16"	6"
#4	20"	24"	24"	8"
#5	26"	44"	44"	10"
#6	36"	60"	60"	12"
#7	52"	82"	82"	14"

NOTE: MULTIPLY LAP LENGTHS BY 1.3 FOR TOP BAR CONDITIONS. TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF CONCRETE BELOW.

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Michael K Weber Digitally signed by Michael K Weber Date: 2022.08.26 09:26:05 -05'00'

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STRUCTURAL ENGINEER
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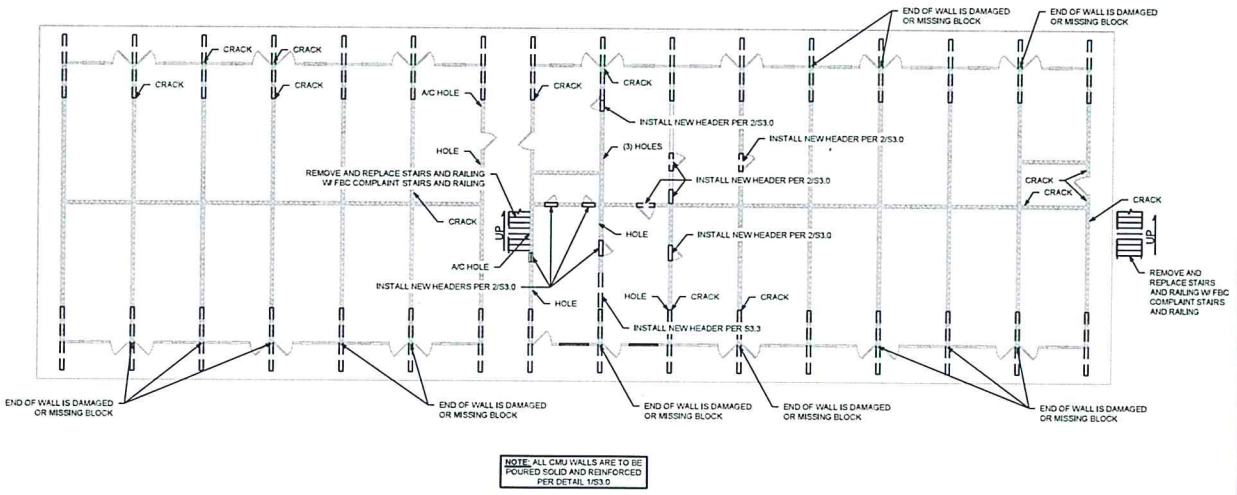
REPAIR DRAWINGS FOR:
LA BRISA INN
5711 EAST HWY 98
PANAMA CITY, FLORIDA

REV.	DESCRIPTION	DATE

JOB NUMBER	20157-2
DRAWN BY:	JCC
CHECKED BY:	MKW
PLOT DATE	8/19/2022

SHEET TITLE
STRUCTURAL NOTES

DRAWING NUMBER
S1.0



NOTE: ALL CMU WALLS ARE TO BE POURED SOLID AND REINFORCED PER DETAIL 1/S3.0

1 BUILDING "A" FIRST FLOOR DAMAGE LOCATIONS
1/16"=1'-0"(11x17) 1/8"=1'-0"(24x36)

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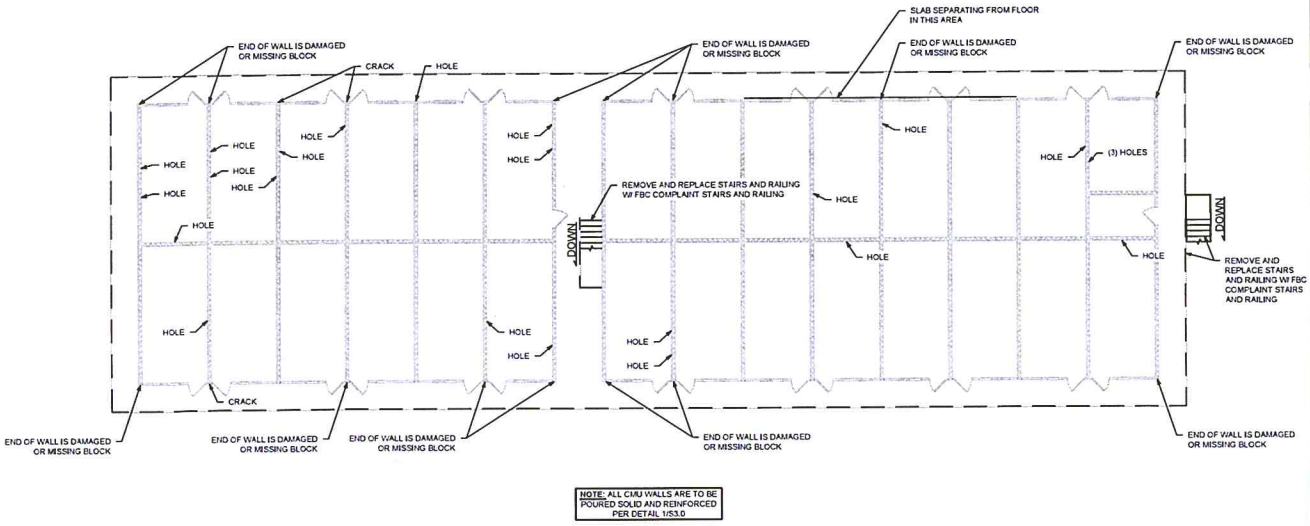
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SHEET TITLE
EXISTING STRUCTURE LAYOUT

DRAWING NUMBER
EX1.0

E S N W



NOTE: ALL CMU WALLS ARE TO BE POURED SOLID AND REINFORCED PER DETAIL 1/S3.0

1 BUILDING "A" SECOND FLOOR DAMAGE LOCATIONS
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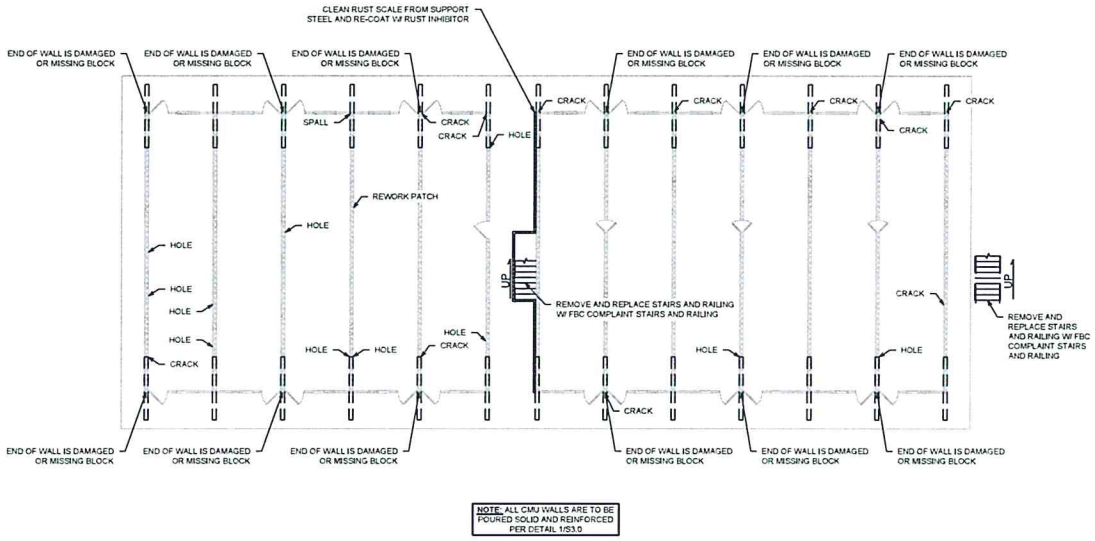
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SHEET TITLE
DEMOLITION PLAN

DRAWING NUMBER
D1.0

E S N W



NOTE: ALL CMU WALLS ARE TO BE POURED SOLID AND REINFORCED PER DETAIL 1/S3.0

1 BUILDING "B" FIRST FLOOR DAMAGE LOCATIONS
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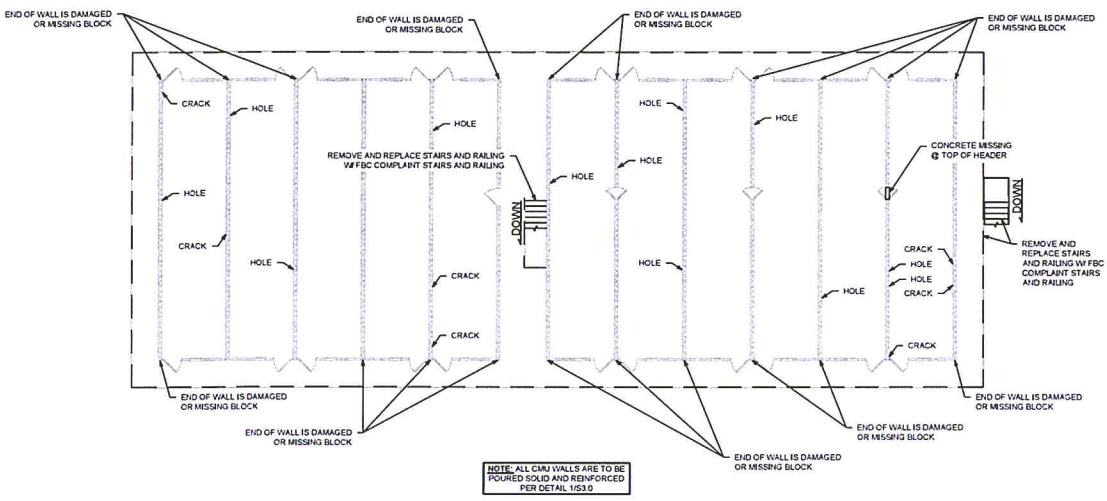
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SHEET TITLE

DRAWING NUMBER
S2.1

E S N W



NOTE: ALL CMU WALLS ARE TO BE POURED SOLID AND REINFORCED PER DETAIL 1/S3.0

1 BUILDING "B" SECOND FLOOR DAMAGE LOCATIONS

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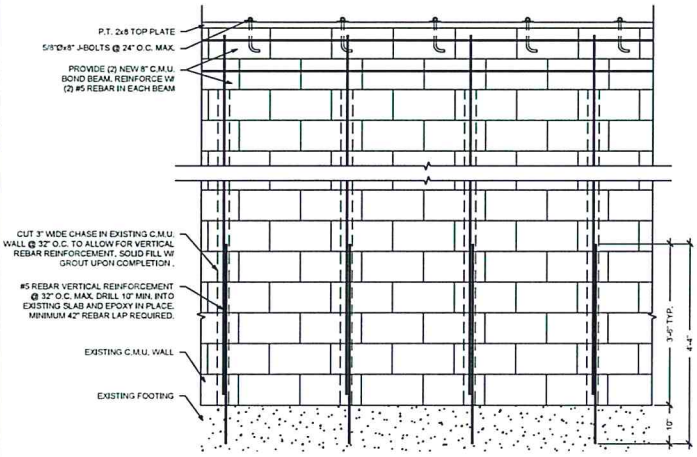
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PLOT DATE:	6/13/2022

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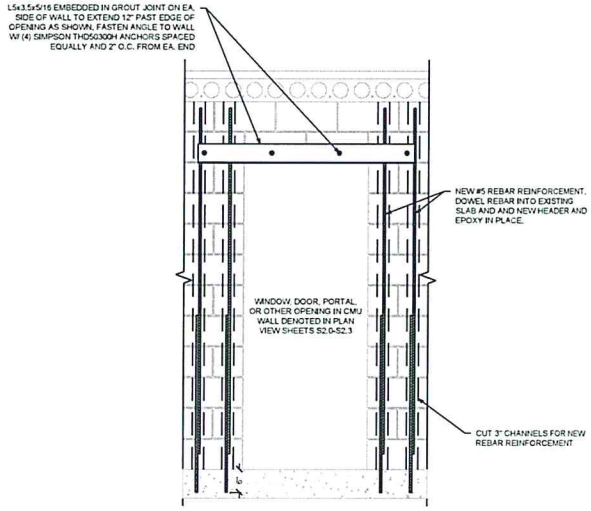
DRAWING NUMBER

S2.2

E S N W



1 CMU WALL REPAIR DETAIL
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)



2 TYP. HEADER DETAIL
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)

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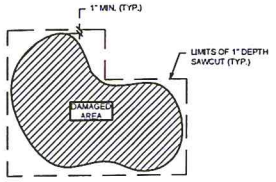
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SHEET TITLE
C.M.U. WALL REPAIR DETAIL

DRAWING NUMBER
S3.0



1 REPAIR CUT AREA DETAIL
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)

NOTE:

1. PREP AREA MUST BE SSD (SATURATED SURFACE DRY) PRIOR TO PLACEMENT OF REPAIR MORTAR

2. USE SIKAQUICK - 1000 OR SIKACRETE - 211 OR APPROVED EQUAL FOR FULL DEPTH REPAIR.

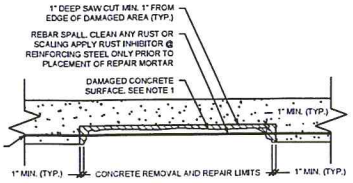
3. USE DURAPREP AC OR ARMATEC-110 EPOCHEM THREE COMPONENT BONDING AGENT OR REPAIR MORTAR SCRUB COAT AT REINFORCEMENT & CONCRETE SURFACES PRIOR TO PLACEMENT OF CONCRETE.

4. PROVIDE SHORING @ UNSUPPORTED SLAB SPANS DURING DEMO & UNTIL 85% CONCRETE STRENGTH IS DEVELOPED. SUBMIT SHORING PLAN TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING WORK.

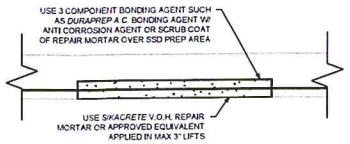
5. SEE MFG. DATA SHEETS FOR APPLICATION & CURE TIME INFORMATION.

6. USE ONE OF THE FOLLOWING EPOXY ADHESIVES OR APPROVED EQUAL.
- HILTI HIT HY200 - INJECTION ADHESIVE
- SIMPSON SET XP
- SIMPSON SET-3G

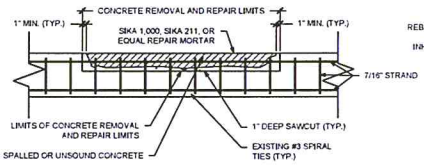
7. FOR FULL DEPTH REPAIRS. A PUMPABLE 5,000 PSI BATCH MIX MAY BE USED. SUBMIT TO ENGINEER FOR APPROVAL PRIOR TO USE.



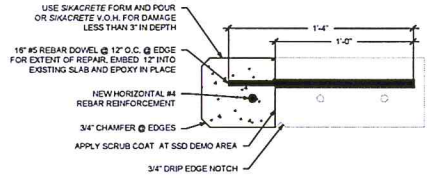
2 OVERHEAD REPAIR PREP SECTION
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)



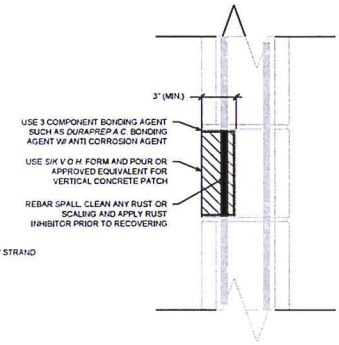
3 OVERHEAD REPAIR SECTION
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)



4 BALCONY/WALKWAY FLOOR SPALL REPAIR
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)



5 BALCONY EDGE SPALL REPAIR
1-1/2"=1'-0"(11x17) 3"=1'-0"(24x36)



6 BLOCK WALL SPALL REPAIR
1-1/2"=1'-0"(11x17) 3"=1'-0"(24x36)

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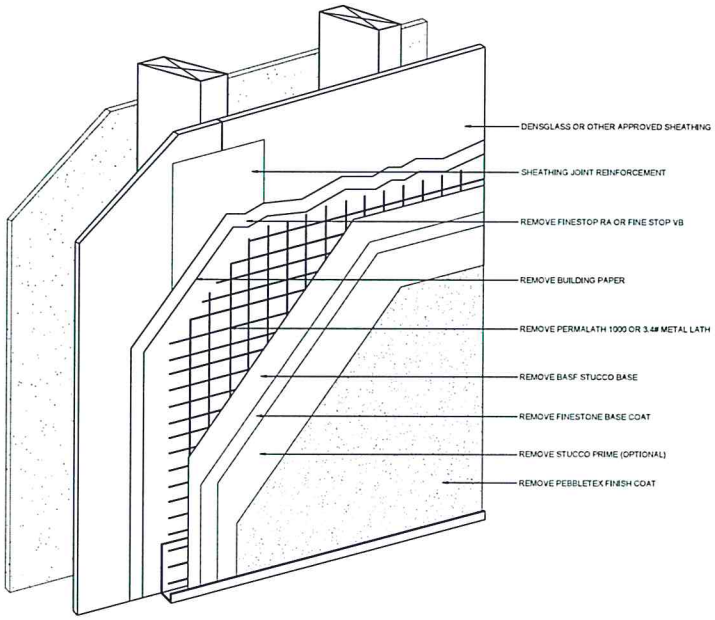
REPAIR DRAWINGS FOR:
LA BRISA INN
5711 EAST HWY 98
PANAMA CITY, FLORIDA

REV.	DESCRIPTION	DATE

JOB NUMBER	20157-2
DRAWN BY:	JCC
CHECKED BY:	MKW
PLOT DATE:	6/19/2022

SHEET TITLE
SPALL REPAIR DETAILS

DRAWING NUMBER
S3.1



1 FINESTONE STUCCO PLUS WALL SYSTEM OVER METAL STUDS
NOT TO SCALE

NOTE:
1. REMOVE ALL MATERIALS UNTIL ONLY DENSGLASS SHEATHING REMAINS.
2. ONCE DENSGLASS IS VISIBLE ADD THE MISSING FASTENERS ACCORDING TO TABLE BELOW.
3. AFTER THE FASTENING PATTERN FOR THE DENSGLASS IF CORRECT RESEAL ALL JOINTS AND SCREW HEADS WITH MANUFACTURERS SPECIFIED JOINT REINFORCEMENT & SEALANT.
4. ONCE SEALED, PROCEED W/ MANUFACTURERS INSTRUCTIONS AS DIRECTED TO RE-APPLY ALL MATERIALS.

Fastening and Framing

Thickness	Framing Spacing	Panel Orientation	Fastener Spacing – Wood Framing[4]	Fastener Spacing – Metal Framing[4]
1/2" (12.7 mm)	24" (610 mm) o.c. max[1]	Parallel or Perpendicular	8" (203 mm) o.c. field & perimeter	8" (203 mm) o.c. along framing
5/8" (15.9 mm)	24" (610 mm) o.c. max[1]	Parallel or Perpendicular	8" (203 mm) o.c. field & perimeter	8" (203 mm) o.c. along framing

1. Only for mechanically attached claddings. When specified behind EIFS, maximum framing spacing for 1/2" (12.7 mm) DensGlass® Sheathing is 16" (406 mm) o.c.
2. Fastener spacing around the perimeter of the wall and along intermediate vertical framing members, to meet the racking shear strength listed in the shear properties table. Fastener spacing is 4" (102 mm) o.c. around the perimeter of each panel and 8" (203 mm) o.c. along vertical framing members.
3. For racking strength substance, apply panel edges parallel with framing spaced a maximum of 16" (406 mm) o.c. for both 1/2" (12.7 mm) and 5/8" (15.9 mm) DensGlass Sheathing.
4. Fire-rated assemblies may require additional fasteners, see specific assembly details.

Fastener*	1/2" (12.3 mm) Thick Sheathing	5/8" (15.9 mm) Thick Sheathing	Description	Application
	Length			
	1" (25 mm)	1-1/4" (32 mm)	Bugle head fine thread, corrosion-resistant drill point drywall screw	DensGlass Sheathing to heavy-gauge metal framing (18 gauge or thicker)
	1" (25 mm)	1-1/4" (32 mm)	Bugle head fine thread, corrosion-resistant sharp point drywall screw	DensGlass Sheathing to light-gauge metal framing (framing (20-25 gauge)
	1-1/4" (32 mm)	1-5/8" (41 mm)	Bugle head, rust resistant, coarse thread sharp point screw	DensGlass Sheathing to wood framing
	1-1/4" (32 mm)	1-1/4" (32 mm) metal 1-5/8" (41 mm) wood	Wafer head, corrosion resistant screws, drill or sharp point	DensGlass Sheathing to heavy-gauge or light-gauge metal or wood framing
	1-1/2" (38 mm)	1-3/4" (45 mm)	11-gauge, galvanized nail	DensGlass Sheathing to wood framing

**For screws, meet or exceed ASTM C1002 or C954. Contact fastener manufacturer for correct amount of corrosion resistance.*

DENSGLASS MANUF. FASTENING PATTERN EXCERPT

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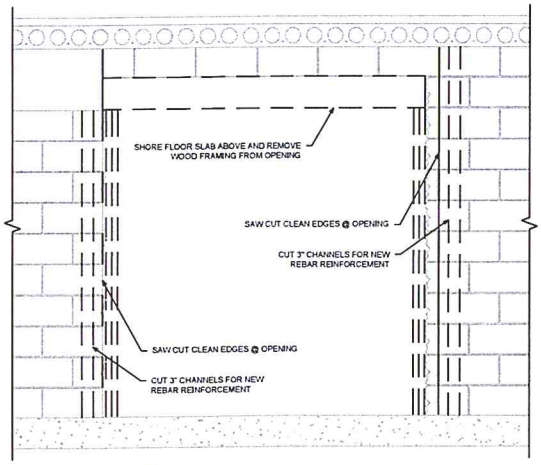
REPAIR DRAWINGS FOR:
LA BRISA INN
5711 EAST HWY 98
PANAMA CITY, FLORIDA

REV.	DESCRIPTION	DATE

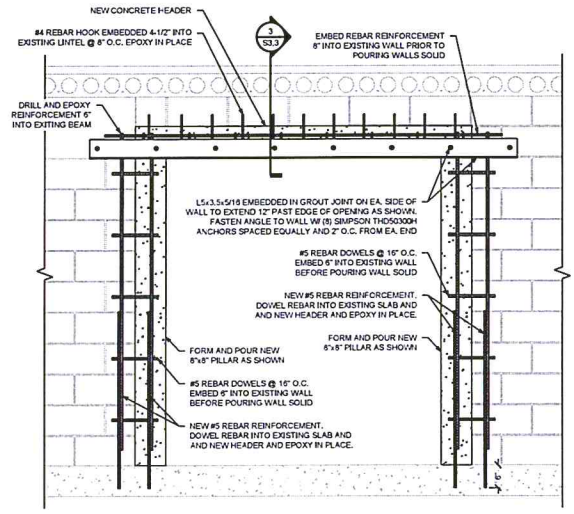
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DRAWN BY:	TBC
CHECKED BY:	MKW
PLOT DATE:	8/10/2022

SHEET TITLE
STUCCO WALL SYSTEM

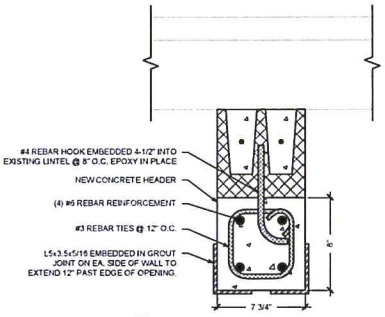
DRAWING NUMBER
S3.2



1 HEADER AT LOBBY DEMO
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)



2 NEW HEADER AT LOBBY DOOR
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)



1 HEADER AT LOBBY DEMO
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)

WEBER
structural engineering
3200 W. 23RD STREET
PANAMA CITY, FL 32405
MKWEBER.COM
FL CERTIFICATE OF AUTHORIZATION # 33120

MICHAEL K. WEBER LICENSE No. 75798 STATE OF FLORIDA PROFESSIONAL ENGINEER

Michael K. Weber
Digitally signed by Michael K. Weber
Date: 2022.06.25 08:26:25 -05'00'

EOR: MICHAEL K. WEBER P.E.
STRUCTURAL ENGINEER
FLORIDA P.E. # 75798

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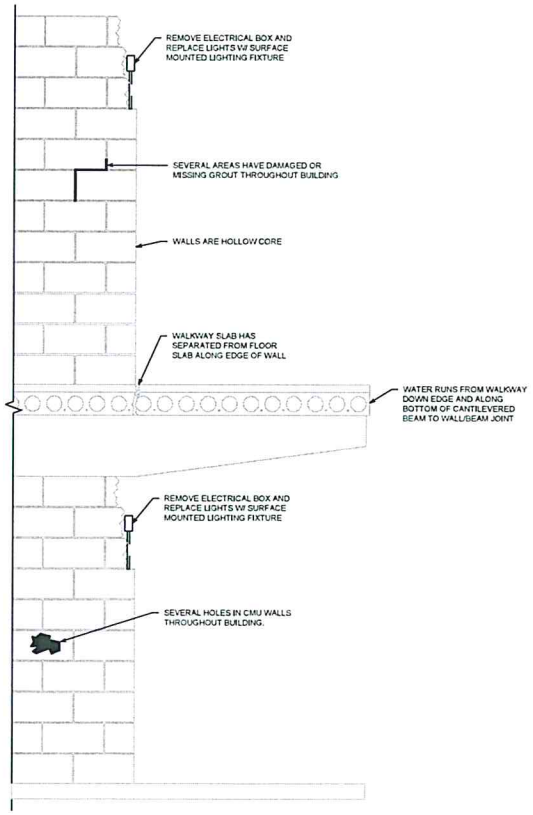
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LA BRISA INN
5711 EAST HWY 98
PANAMA CITY, FLORIDA

REV.	DESCRIPTION	DATE

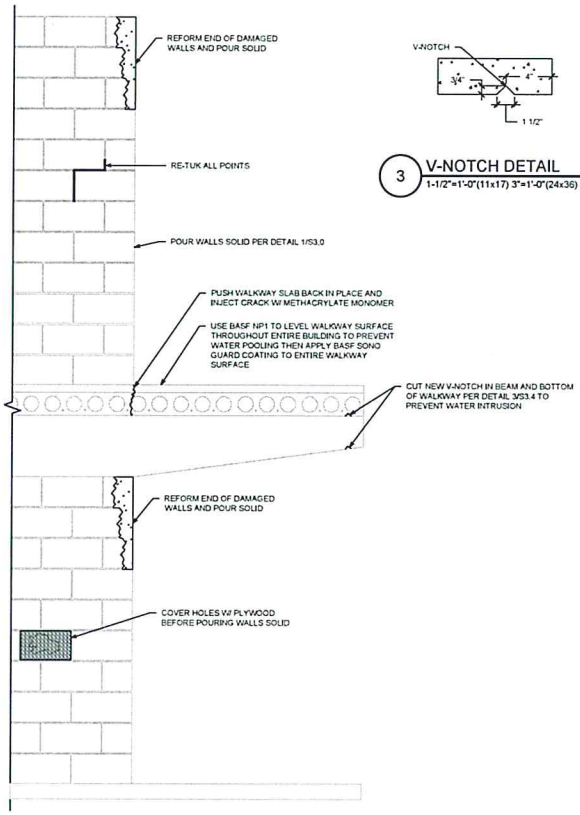
JOB NUMBER	20157-2
DRAWN BY	JCC
CHECKED BY	MKW
PLOT DATE	6/10/2022

SHEET TITLE
C.M.U. WALL REPAIR DETAIL

DRAWING NUMBER
S3.3



1 TYPICAL DAMAGE DETAIL
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)



2 TYPICAL REPAIR DETAIL
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)

3 V-NOTCH DETAIL
1-1/2"=1'-0"(11x17) 3"=1'-0"(24x36)

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Michael K Weber
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REPAIR DRAWINGS FOR:
LA BRISA INN
5711 EAST HWY 98
PANAMA CITY, FLORIDA

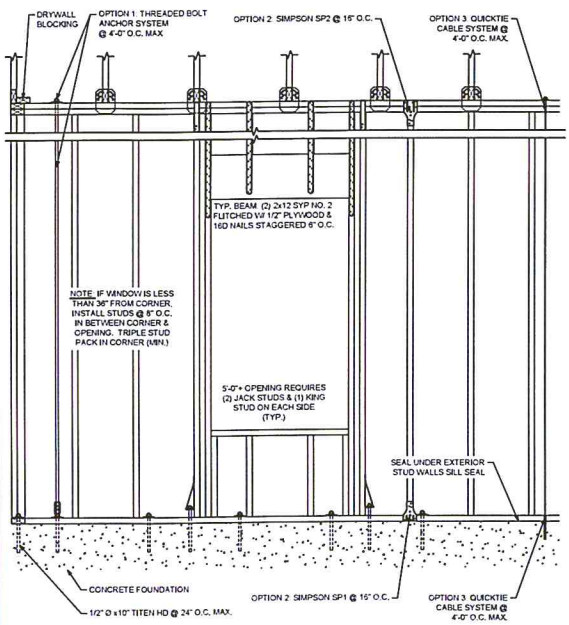
REV.	DESCRIPTION	DATE

JOB NUMBER	20157-2
DRAWN BY	JCC
CHECKED BY	MKW
PLOT DATE	5/19/2022

SHEET TITLE
C.M.U. WALL REPAIR DETAIL

DRAWING NUMBER
S3.4

OPENING SIZE	No. OF JACK STUDS	No. OF KING STUDS	No. OF BEAM STRAPS	No. OF JAMB STUD TIES	OPENING HOLD DOWN	CORNER HOLD DOWN
8'	2	2	2	2	HDU2-SDS2.5	HDU2-SDS2.5
7'	2	2	2	2	HDU2-SDS2.5	HDU2-SDS2.5
6'	2	2	2	2	HDU2-SDS2.5	HDU2-SDS2.5
5'	2	1	1	1	HDU2-SDS2.5	HDU2-SDS2.5
4'	1	1	1	1	HDU2-SDS2.5	HDU2-SDS2.5
3'	1	1	1	1	HDU2-SDS2.5	HDU2-SDS2.5



1 TYP. WALL CONNECTION DETAILS
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)

NOTE:
AT EXISTING CONCRETE, IN LIEU OF ANCHOR BOLTS, USE OPTIONAL THREADED ROD WITH MIN. 6" EMBEDDED & EPOXIED INTO PLACE WITH SIMPSON AT-XP ADHESIVE OR OTHER ANCHOR BOLT SYSTEM TO BE SUBMITTED AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO INSTALLATION

WALL CONNECTION OPTIONS:

OPTION 1 - THREADED BOLT SYSTEM: 5/8" ROD SYSTEM @ 6' O.C. & WITHIN 12" OF CORNER & EACH OPENING SIDE.

OPTION 2 - SIMPSON SP1 & SP2 HOLD DOWNS @ 16" O.C.

OPTION 3 - QUICKTIE CABLE SYSTEM: QTG @ 4'-0.C & WITHIN 12" OF EACH OPENING, WITH QTR WITHIN 12" OF CORNERS

HURRICANE ANCHOR CLIP
CONNECTOR: H10A
UPLIFT: 1015 LBS

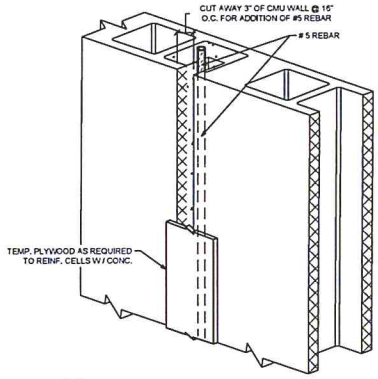
TOP PLATE STUD TIE
CONNECTOR: SP2
UPLIFT: 1065 LBS

JACK STUD TOP PLATE TIE
CONNECTOR: SPH4
UPLIFT: 620 LBS
(CENTERED LOAD 1320 LBS)

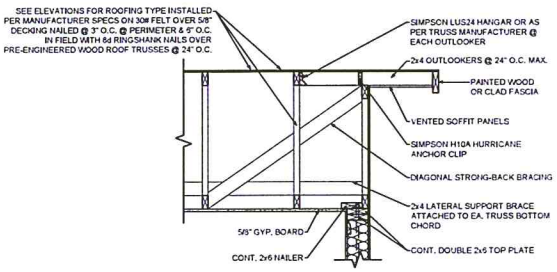
BEAM STRAP
CONNECTOR: CS16
UPLIFT: 1705 LBS

BOTTOM PLATE STUD
CONNECTOR: SP1
UPLIFT: 585 LBS

OPENING & CORNER HOLD DOWN
CONNECTOR: HD3B
OR HDU2-SDS2.5
UPLIFT: 3075 LBS



2 CMU WALL REINFORCEMENT DETAIL
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)



3 GABLE ENDWALL SECTION
1/2"=1'-0"(11x17) 1"=1'-0"(24x36)

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MICHAEL K. WEBER LICENSE No. 75798 STATE OF FLORIDA PROFESSIONAL ENGINEER
Michael K Weber
Digitally signed by Michael K Weber
Date: 2022.08.08 -05'00'

EOR: MICHAEL K. WEBER P.E.
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FLORIDA P.E. # 75798

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REPAIR DRAWINGS FOR:
LA BRISA INN
5711 EAST HWY 98
PANAMA CITY, FLORIDA

REV.	DESCRIPTION	DATE

JOB NUMBER	20157-2
DRAWN BY	JCC
CHECKED BY	MKW
PLOT DATE	8/19/2022

SHEET TITLE
TYPICAL STRUCTURAL DETAILS

DRAWING NUMBER
S3.5