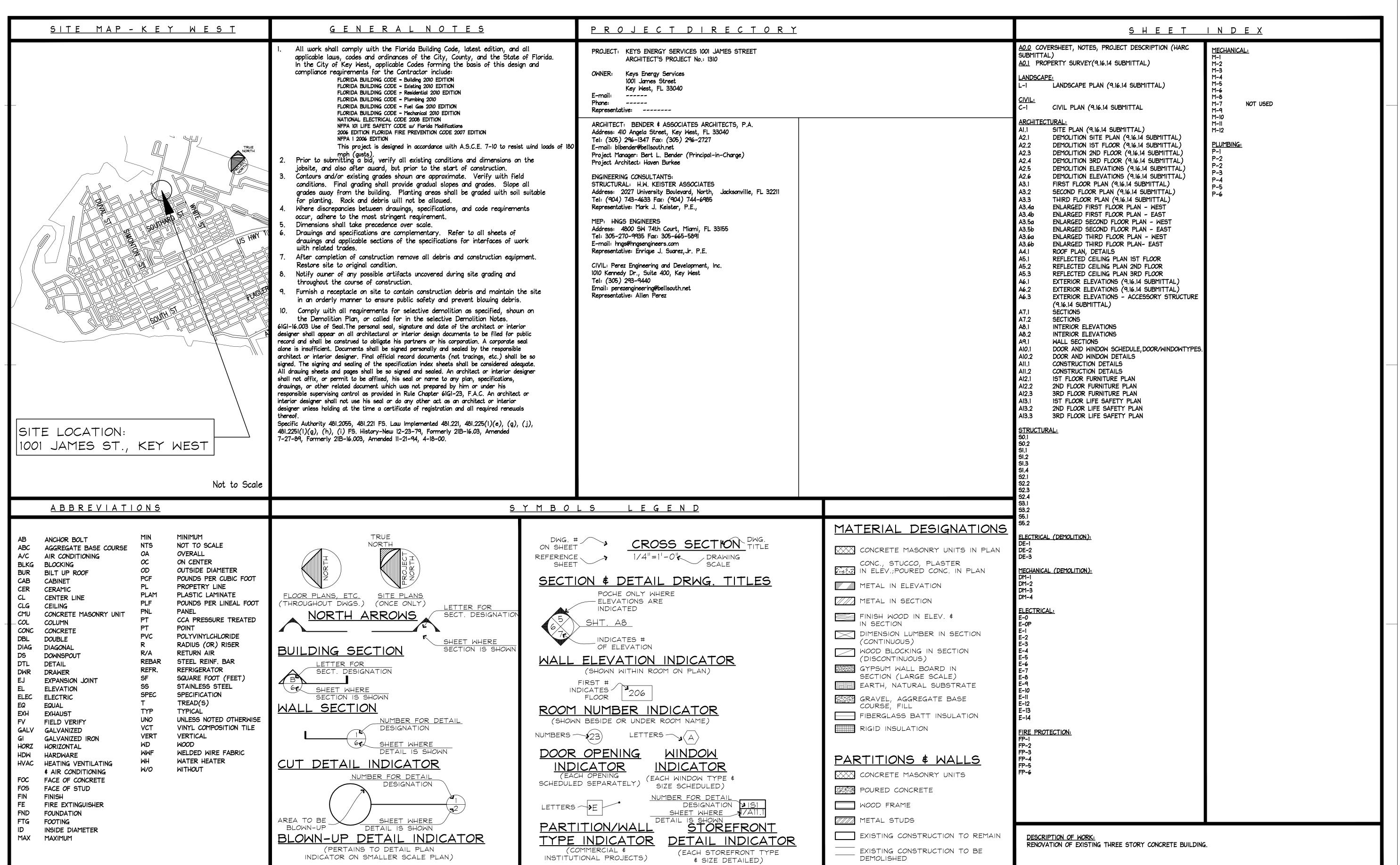
CITY COMMISSION 9.16.14

Keys Energy Services

1001 JAMES STREET

CITY COMMISSION MEETING 9.16.14



ENERGY SERVICES
1001 JAMES STREET
Key West, Florida 33040

410 Angela Street Key West, Florida 33040

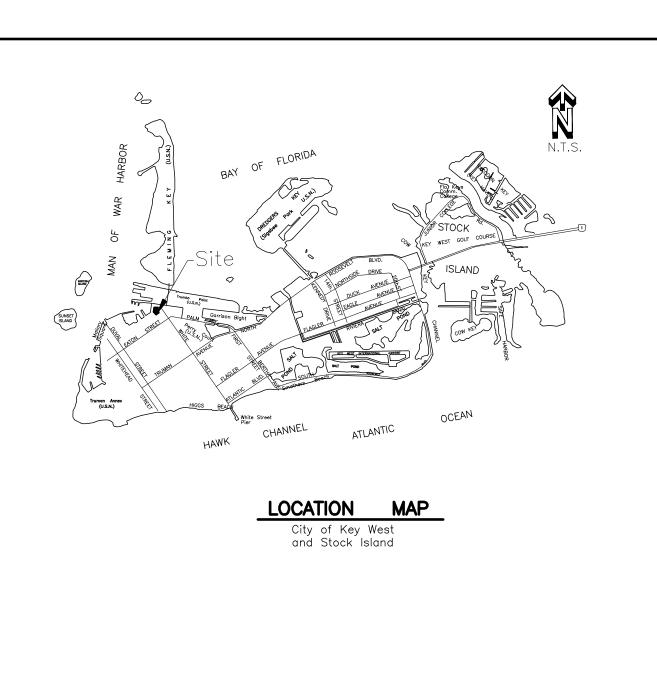
Key West, Florida 33040
Telephone (305) 296-1347
Facsimilie (305) 296-2727
Florida License AAC002022

Project Nº: 1310

SITE MAP
PROJECT DIRECTORY
GENERAL NOTES
ABBREVIATIONS
SHEET INDEX
SYMBOL LEGEND

Date: 8/17/14

A.0



LEGAL DESCRIPTION:

Utility Easement

200.00 m. & d.

3 Story C.B.S. Building

200.00 m. & d.

NOT VALID UNLESS EMBOSSED WITH RAISED SEAL & SIGNATURE

JAMES STREET 351

40' R/W)

"Keys Energy"

No. 1001

F.FL. 5.99

A parcel of land in Square 19 and/or in the filled land contiguous to the Northerly and Northwesterly boundary of said Square 19, on the Island of Key West, Florida according to the William A. Whitehead's map of said Island and being more particularly described by metes and

James Street and the Northeasterly property line of Grinnell Street, said land hereinafter described, bear Northwesterly along the Northeasterly property line of Grinnell Street for a distance of 190 feet to a point; thence at right angles and Northeasterly and parallel with the a point; thence at right angles and Southeasterly and parallel with the Northeasterly property line of Grinnell Street for a distance of 190 feet right angles and Southwesterly along the Northwesterly property line of subject to an encroachment of 9 inches along the Northwesterly boundary of this Parcel No.1.

LEGAL DESCRIPTION: (Utility Easement)

particularly described as follows: Commencing at the intersection of the Easterly Right-of-Way Line of Trumbo Road and the Northeasterly Right—of—Way Line of Grinnell Street; thence S.40°00'00"E., along the said Northeasterly Right—of—Way line of having: a radius of 25.00 feet, a central angle of 15°40'21", a chord curve to the right, having: a radius of 25.00 feet, a central angle of

On the Island of Key West, Monroe County, Florida and being more

the point of tangency of said curve; thence S.49°58'00"W., a distance of 126.60 feet to the point of curvature of a curve to the right, having: a radius of 25.00 feet, a central angle of 15°40'21", a chord bearing of S.57°48'10"W. and a chord length of 6.82 feet; thence along the arc of said curve, an arc length of 6.84 feet to the point of tangency of said chord length of 10.60 feet; thence along the arc of said curve, an arc length of 11.78 feet to the point of tangency of said curve; thence S.50°00'00"W., a distance of 200.04 feet to the said Northeasterly Northeasterly Right-of-Way Line of Grinnell Street a distance of 20.00 feet to the Point of Beginning.

LEGAL DESCRIPTION: (Common Entrance Easement):

particularly described as follows: Commencing at the intersection of the Easterly Right-of-Way Line of Trumbo Road and the Northeasterly Right—of—Way Line of Grinnell Street; thence S.40°00'00"E., along the said Northeasterly Right—of—Way Line of Grinnell Street a distance of 55.52 feet to the Point of Beginning; thence N.50°00'00"E., a distance of 40.00 feet; thence S.40°00'00"E., a distance of 28.00 feet; thence S.50°00'00"W., a distance of 40.00 feet to the said Northeasterly Right-of-Way Line of Grinnell Street; thence N.40°00'00"W., a distance of 28.00 feet to the Point of Beginning. Parcel contains 1120 square feet or 0.03 acres, more or less.

Parcel contains 16247 square feet or 0.37 acres, more or less.

	LEGEN	ID	
A/C BAL BM CB Q CONC C.B.S. CUP COV'D D ELEV F.FL. FD FIB FIP INV IRR	Air Conditioner Balcony Bench Mark Catch Basin Center Line Clean Out Concrete Concrete Block Stucco Concrete Utility Pole Covered Deed Elevation Finished Floor Elevation Found Found Iron Bar Found Iron Pipe Invert Irregular	M N.T.S. O.R. OH P PB P.O.C. R/W SIB SIP SPK STY UP WM WV	Official Records Over Head Plat Plat Book Point Of Beginning
	SYMBO	LS	
—————————————————————————————————————	Concrete Utility Pole Sanitary Sewer Clean Out Fire Hydrant	Ž E	Street Light Wood Utility Pole Electric Junction Box

Monumentation: Set 1/2" Iron Pipe, P.L.S. No. 2749
 Found 1/2" Iron Pipe
 Found 1/2" Iron Bar $\Delta = \text{Set P.K. Nail, P.L.S. No. 2749}$ ▲ = Found P.K. Nail

North arrow based on plat assumed median Reference Bearing: R/W Grinnell Street 3.4 denotes existing elevation Elevations based on N.G.V.D. 1929 Datum Bench Mark No.: D-121 Elevation: 3.914 Field Work performed on: 1/23/14 All angles 90°00'00" unless otherwise described TC = top of curve BC = bottom of curve

SURVEYOR'S NOTES:

Utility Board of the City of Key West 1001 James Streets, Key West, Fl.			
BOUNDARY SURVEY	Dwn No.: 14-211		
Scale: 1"=20' Ref. 120-21 1516 K Date: 4/29/14 169-52 Flood Zone: AE	Dwn. By: F.H.H. Flood Elev. 7'	ISLAND SURVE	YINC
REVISIONS AND/OR ADDITIONS		ENGINEERS PLANNERS	S :
c/dwq/keys		3152 Northside Drive Suite 201 Key West, Fl. 33040	(305) Fax. fhilde L.B.

Commencing at the intersection of the Northwesterly property line of intersection also to be known as the Point of Beginning of the parcel of Northwesterly property line of James Street for a distance of 200 feet to to a point on the Northwesterly property line of James Street; thence at

James Street for a distance of 200 feet, back to the Point of Beginning;

Grinnell Street a distance of 49.52 feet to the Point of Beginning; thence N.50°00'00"E., a distance of 283.90 feet to a point on a curve to the left, having: a radius of 7.15 feet, a central angle of 84°24'47", a chord bearing of S.83°08'39"E. and a chord length of 9.61 feet; thence along the arc of said curve, an arc length of 10.53 feet to the point of tangency of said curve; thence N.54*38'57"E., a distance of 71.76 feet; thence N.65*38'21"E., a distance of 52.30 feet to the point of curvature of a curve to the left, bearing of N.57°48'10"E. and a chord length of 6.82 feet; thence along the arc of said curve, an arc length of 6.84 feet to the point of tangency of said curve; thence N.49°58'00"E., a distance of 159.26 feet to a point on a 90°00'00", a chord bearing of S.04°58'00"W. and a chord length of 35.36 feet; thence along the arc of said curve, an arc length of 39.27 feet to

curve; thence S.65°38'21"W., a distance of 64.32 feet; thence S.54°38'57"W., a distance of 14.99 feet to the point of curvature of a curve to the left, having: a radius of 7.50 feet, a central angle of 94°40'57", a chord bearing of S.07°18'29"W. and a chord length of 11.03 feet; thence along the arc of said curve, an arc length of 12.39 feet to the point of tangency of said curve; thence S.40°02'00"E., a distance of 12.05 feet; thence S.49°58'00"W., a distance of 127.50 feet; thence N.40°02'00"W., a distance of 25.48 feet to the point of curvature of a curve to the left, having: a radius of 7.50 feet, a central angle of 89°58'00", a chord bearing of N.85°01'00"W. and a Right-of-Way Line of Grinnell Street; thence N.40°00'00"W., along the said

On the Island of Key West, Monroe County, Florida and being more

SURVEYORS 5) 293-0466 . (305) 293-0237 deb1@bellsouth.net . No. 7700

I HEREBY CERTIFY that the attached BOUNDARY SURVEY

there are no visable encroachments unless shown hereon.

Professional Land Surveyor & Mapper No. 2749

FREDERICK H. HILDEBRANDT

State of Florida

Professional Engineer No. 36810

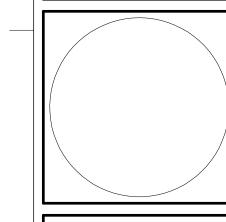
is true and correct to the best of my knowledge and beleif; that it meets the minimum

techncial standards adopted by the Florida Board of Land Surveyors, Chapter 61G17—6,

Florida Statue Section 472.027, and the American land Title Association, and that

GRINNELL ST (50' R/W)

3.5′± ∕ over



410 Angela Street Key West, Florida 33040 Telephone (305) 296-1347 Facsimilie (305) 296-2727 Florida License AAC002022

Issociates \boldsymbol{V} ender

BProject Nº: 1310 SURVEY

Date: 8/17/14

TREE BRACING NOTES:

- 2" and larger caliper trees braced by guying:
- 1. Choose the correct size and number of stakes and size of hose and wire. Guying shall be completed within 48 hours of planting the tree.
- Cut lengths of staking hose to extend 2 inches past tree trunk when wrapping around.
- Space stakes evenly on outside of water ring and drive each firmly into ground. Stakes should be driven at a 30 degree angle with the point of the stake toward the tree until 4 to 5 inches are left showing.
- Place the hose around the trunk just above the lowest branch.
- 5. Thread the wire through the hose and past the stake, allowing approximately 2 feet of each of the two ends beyond the
- stake before cutting the wire. Twist wire at rubber hose to keep it in place.
- 7. Pull wire down and wind both ends around stake twice. Twist wire back onto itself to secure it before cutting off the excess.
- 8. The above procedures are to be followed for each stake, keeping the tree straight at all times. There should be a 1 to 3 inch sway in the tree (the wires should not be pulled tight) for best establishment.
- 9. Flag the guy wires with surveyor's flagging or approved equal for safety.
- 10. Guys are not to be removed until approved by landscape contractor.

Specimen trees and tall palms braced with props:

- 11. Choose the correct size, length, and number of props to be used (pressure treated (PT) 2"x4", 4"x4").
- 12. Wrap at least 5 layers of burlap around trunk of the palm at least 4 inches wider than the battens being used. Battens should be mounted at a point 1/3 of the distance from ground to the clear trunk of the tree or palm, but not less than 4 feet, whichever is greater.
- 13. Select the proper length and size of battens (PT 2"x4"x12"-16")
- 14. Use the same number of battens as props being used.
- 15. Place the battens vertically and evenly spaced against the burlap.
- 16. Secure the battens in place with metal or plastic banding straps. DO NOT NAIL INTO TREE.
- 17. Wedge lower end of prop into soil and secure with a 2"x4"x30" stake. Props should be installed at a 30 to 40 degree angle from the battens and of sufficient length to reach the ground. NOTE: ON STRAIGHT TREES OR PALMS OR TREES, SPACE PROPS EQUAL DISTANCE AROUND TREE OR PALM. ON CURVED PALMS OR TREES, SPACE PROPS AGAINST THE FRONT OF THE CURVE OF THE PALM.
- 18. Cut a smooth angle at the end of the props. Align with and nail into battens. DO NOT PENETRATE TREE OR PALM WITH
- 19. If it appears that additional construction work will take place near to or in the vicinity of the newly braced trees or palms, then props are to be clearly labeled with the statement, "DO NOT REMOVE."
- 20. Props are not to be removed until approved by the landscape contractor.

END

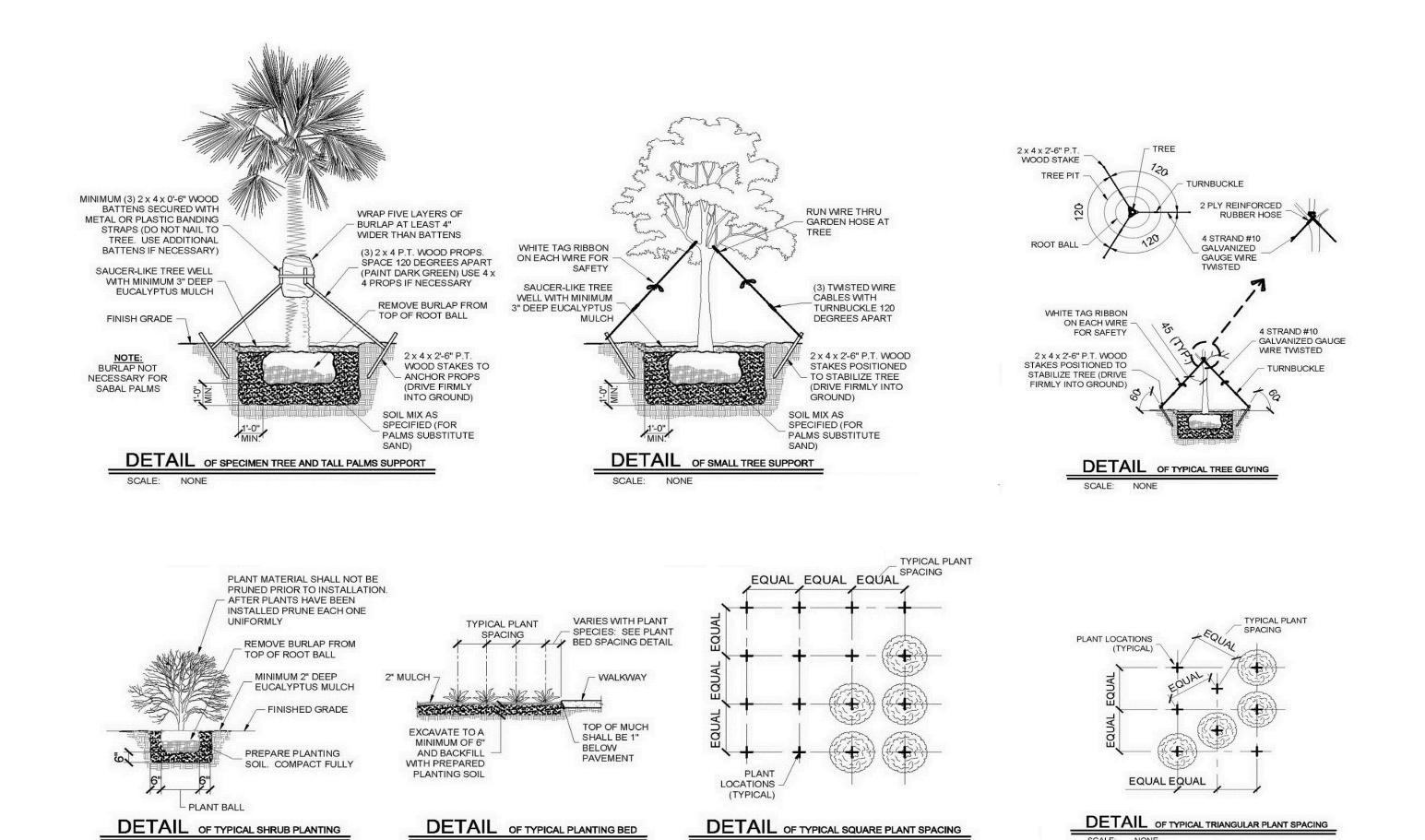
GENERAL LANDSCAPE NOTES:

- 1. Changes may occur during the normal course of implementation. Verbal change orders will not be honored. Any changes must be submitted to landscape architect in writing as a change order to be reviewed and approved in
- 2. All newly planted areas to receive 100% coverage by automatic irrigation system (drip preferred) unless otherwise directed by OWNER. Landscape contractor to coordinate installation of irrigation system with irrigation contractor. Irrigation time clock to be HARD WIRED on completion – responsibility of irrigation contractor. Landscape contractor to hand water or arrange for watering during planting until irrigation system is 100% operable. This is the responsibility of the landscape contractor.
- 3. Landscape contractor to become familiar with the scope of work as well as the site, digging conditions, and any obstacles
- Landscape contractor shall locate and verify all underground utilities prior to digging.
- 5. All Plant material is to be Florida No. 1 or better. Florida Department of Agriculture Grades and Standards, Parts I & II, 1975,
- All trees to be staked in a good workmanlike manner. No nail staking permitted. (Refer to planting details)
- Landscape plan shall be installed in compliance with all local codes.
- 8. All tree holes to be back filled around and under root ball with washed beach sand. All shrub beds to be installed with washed beach sand. (See spec)
- 9. All trees, shrubs and ground covers shall be guaranteed for six months from date of final acceptance. All palms are to be guaranteed for one year.
- 10. All planting beds shall be weed and grass free.
- 11. All trees, palms, shrubs and ground cover plants shall be fertilized at installation according to manufacturers' recommendations. Type and amount of fertilizer is up to discretion of Landscape Contractor in order to avoid "burn" on plants that may already contain fertilizer from nursery and ensure proper establishment to maintain contractors warranty.
- 12. Planting plan shall take precedence over plant list in case of discrepancies.
- 13. No change shall be made without prior consent of Landscape Architect. 14. All material shall be subject to availability at time of installation. Substitutions may be made after consultation with Landscape Architect
- 15. Landscape Contractor to coordinate his work with the General Contractor, Irrigation Contractor, and the Electrical
- Contractor. 16. All existing plant material to remain shall be protected.
- 17. All trees to be relocated will get root pruned 30 days min. (or more if required by the species). Upon relocation, thin out 30% of the relocated trees' canopy.
- 18. After removal or relocation of existing trees and palms, backfill tree pit with washed beach sand, and sod disturbed area, if
- 19. All trees on sod area shall receive a mulch ring 2" in diameter typical.
- 20. All trees shall have 2" caliper at D.B.H. minimum for a 10' height tree.
- 21. All 1 gallon material to have 12" spread minimum, all 3 gallon material to have 20-24" spread minimum.
- 22. Landscape contractor to be County and City licensed where work is to be performed. Liability and Workman's' comp insurance is required for each and every employee to be on-site at any time during implementation. Paperwork to this effect to be provided on request within 2 business days. END

IRRIGATION NOTES:

- 1. All Lady Palms (Rhapis spp.), Heliconia, and Bamboos to have single bubbler. All Major Palms to have two bubblers on opposing sides of root ball. Bubblers to be hidden from view.
- 2. Irrigation contractor to coordinate location of main lines with Landscape Contractor prior to implementation. Avoid root balls of trees and large plant materials. Refer to landscape drawings.
- 3. All pipe to be PVC schedule 40, 8" minimum cover.
- 4. All heads installed on flexible PVC pipe and fittings.
- Pressurized backflow, rain switch, and multi-programmable controller with battery backup required.
- All crossings under permanent concrete to be sleeved two times the sprinkler pipe size with schedule 40 PVC.
- All valves to have flow control and be installed in green valve boxes with room to work in future. All valve boxes to be located away from walkways, garden paths, and groundcovers – keep to back of beds.
- 9. All sprinklers to be commercial grade Toro 570 Series 4" and 12" and installed out of sight.
- 10. Irrigation contractor to measure water available on-site and use no more than 75% of available GPM. 11. Water connection to the house, including shut-off valves, shall not be altered by pressurized backflow.
- 12. All wire splices to be in valve boxes and clearly labeled at back of time clock. All wire splices to be installed with
- water proof connections.
- 13. 2 spare wires to be run to the last valve in each direction.
- 14. Controller to be hard-wired at time of completion and included in irrigation contractors bid.
- 15. System to provide 100% controlled coverage on completion. Additions/modifications from irrigation plan may be
- 16. Irrigation contractor to be County and City licensed where work is to be performed. Liability and Workman's' comp insurance is required for each and every employee to be on-site at any time during implementation. Paperwork to this effect to be provided on request within 2 business days.
- 17. As-built irrigation drawing to be provided prior to final payment.

END



PLANT LIST

TBD BLACK Eucalyptus Mulch

TBD Planting soil

Qty.	Botanical Name	Common Name	Specifications	Photo
	ES AND PALMS	\$ 1999; C.A. 700 (1740 S.O.) (1903 S.C.) (1994 - 1905 A. 1997 S.C.) (1997 700 A.		No. 1 Selleytechnic (176, 174)
1	Ardisia escalanoides	Marlberry	6' PH, very full	
4	Bursera simaruba	Gumbo Limbo	12' PH, FF#1	
10	Capparis cynophallophora	Jamaica Caper	4' PH	
5	Chrysophyllum oliviforme	Satinleaf	8' PH, FF#1	
1	Coccoloba diversifolia	Pigeon Plum	8' PH x 3' spread	
7	Coccothrinax argentata	Florida Silver Palm	15 gallon	
	Guiacum sanctum	Lignum Vitae	5' PH x 5' spread, specimen	Yes
6	Gymanthes lucida	Crabwood	25 gallon	
5	Lysiloma latisilliquum	Tamarind	12' PH x 6' spread, standard FF#1	
3	Myrcianthes fragrans	Simpson Stopper	45 gallon, multi-trunk specimens, Plant Creations Nursery	
2	Pseudophoenix sargentii	Buccaneer Palm	5' PH, fat & heavy, (1) double, (1) single	
1	Swietenia mahogani	Mahogany	14-16' PH, FF#1	
23	Sabal Palmetto	Same	Regenerated, slicks, mix of 10-24' CT with leans	
15	Serenoa repens 'cericeus'	Silver Saw Palmetto	3' x 3' PH	
1	Thrinax morisii	Silver Thatch Palm	Double trunk, 4' PH	
SHR	UBS AND GROUNDCOVERS			
21	Baccharis halimifolia	Groundsel Bush	15 gallon, full, Doug Ingram & Sons Nursery	
37	Borischia arborescens	Sea Oxeye Daisy	1 gallon	
145	Ernodiea littoralis	Golden Creeper	1 gallon	
153	Hymenocalis latifolia	Spider Lily	3 gallon	
916	Liriope sp. 'Isabella'	DWARF Isabella Liriope	1 gallon, full	
67	Phyllanthus sp.	Phyllanthus	1 gallon, Doug Ingram & Sons Nursery	
240	Pilea depressa	Pilea	1 gallon	
40	Polypodium scolopendria	Wart Fern	1 gallon	
18	Psychotria ligustrifolia	DWARF Wild Coffee	7 gallon, full	
250	Stachytarpheta jamaciensis	DWARF Blue Porterweed	1 gallon	
230	Tradescantia microfolia	Argentine Ivy	1 gallon, Plant Creations Nursery	
7	Tripsacum dactyloides	Fakahatchee Grass	3 gallon	
22	Xylosma sp.	Xylosma	7 gallon, full, Plant Creations Nursery	
73	Zamia floridana	Coontie	7 gallon, full	
ADD	ITONAL ITEMS			

1" minimum

50/50 sand/soil mix

KEYS ENERGY SERVICES

1001 JAMES STREET KEY WEST, FL 33040

Date: 08-07-2014

	RE	VISIONS			
No.	Date	Remarks			
7. 1	8-12-2014	Revised planting plan & quantities			
e e					

	DRAWING LIST
A. C	OVER SHEET
	Tree Bracing Notes
	General Landscape Notes
	Irrigation Notes
	Planting Details
	Plant List and Specifications
B. LC	D-1
	Planting Plan

Provide

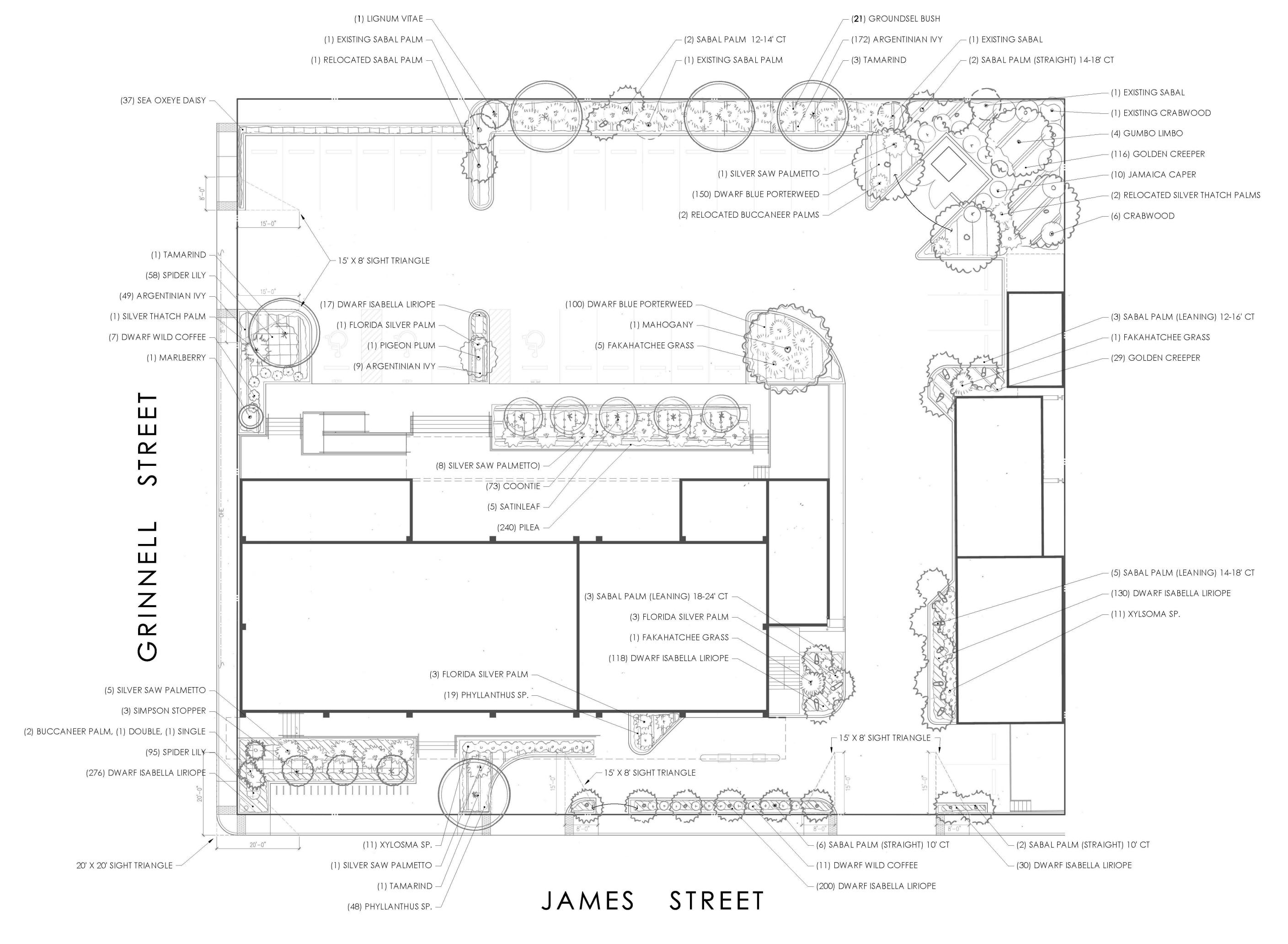
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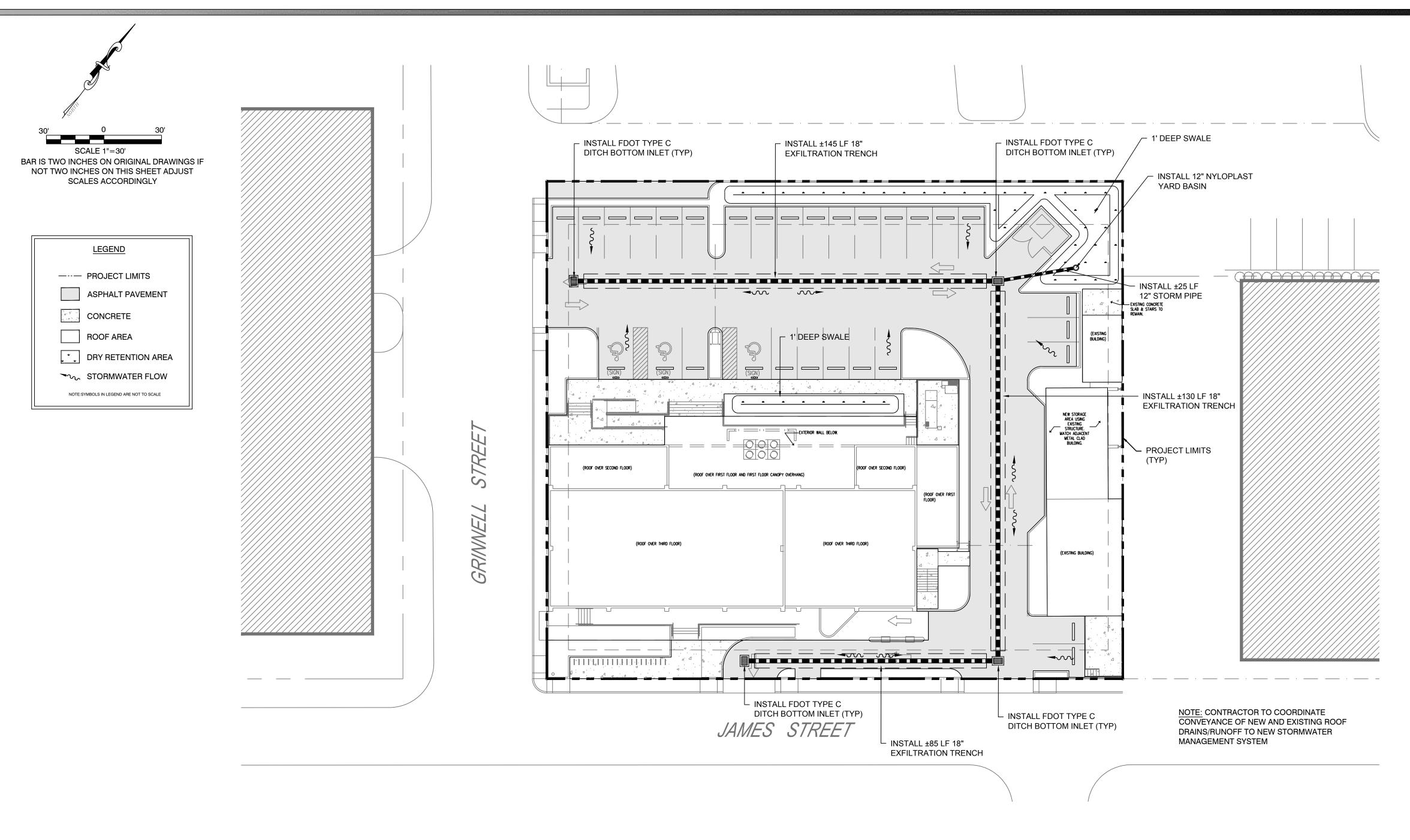


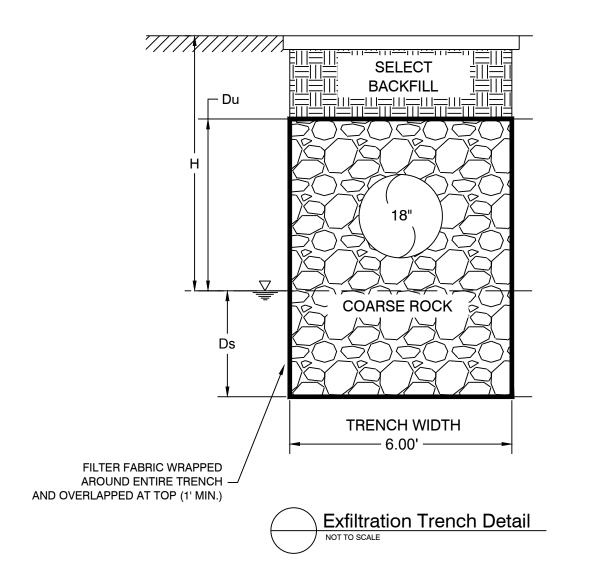
CRAIG REYNOLDS landscape architecture

craigreynolds.net 517 Duval Street, Suite 204

305.292.7243 Key West, Florida 33040







Water Quantity - Predevelopment					
Project Area	A =	0.794	ac	34,605	
Pervious Area		0.049	ac	2,119	
Impervious Area		0.746	ac	32,486	
% Impervious		93.88%			
Rainfall for 25yr/24hr event	P ₂₄ =	9	in		
Rainfall for 25yr/3day event	$P_{72} =$	12.23	in		
Depth to Water Table		2	ft		
Predeveloped Available Storage		1.88	in		
Soil Storage	S =	0.12	in		
$Q_{\text{pre}} = \frac{(P72 - 0.2S)^2}{(P72 + 0.8S)}$	Q _{pre} =	12.09	in		
Runoff Volume from 25 year/ 3 day storm	V _{25yr/72h} =	9.61	ac-in		
Project Area Pervious Area Impervious Area % Impervious	Α =	0.794 0.127 0.667 84.0%	ac ac ac	34,605 5,549 29,056	
Rainfall for 25yr/24hr event	P ₂₄ =	9	in		
Rainfall for 25yr/3day event	P ₇₂ =	12.23	in		
Depth to Water Table		2	ft		
Developed Available Storage		1.88	in		
Soil Storage	S =	0.30	in		
$Q_{post} = \frac{(P_{24} - 0.2S)^2}{(P_{24} + 0.8S)}$	$Q_{post} =$	11.88	in		
Runoff Volume from 25 year/ 3 day storm	V _{25yr/72h} =	9.43	ac-in		
Postdevelopment - Predevelopment					
$Q_{pre-post} = Q_{post} - Q_{pre}$	$Q_{pre-post} =$	-0.22	in		
Pre/Post Volume = Q _{pre-post} x A	V _{pre-post} =	-0.17	ac-in		

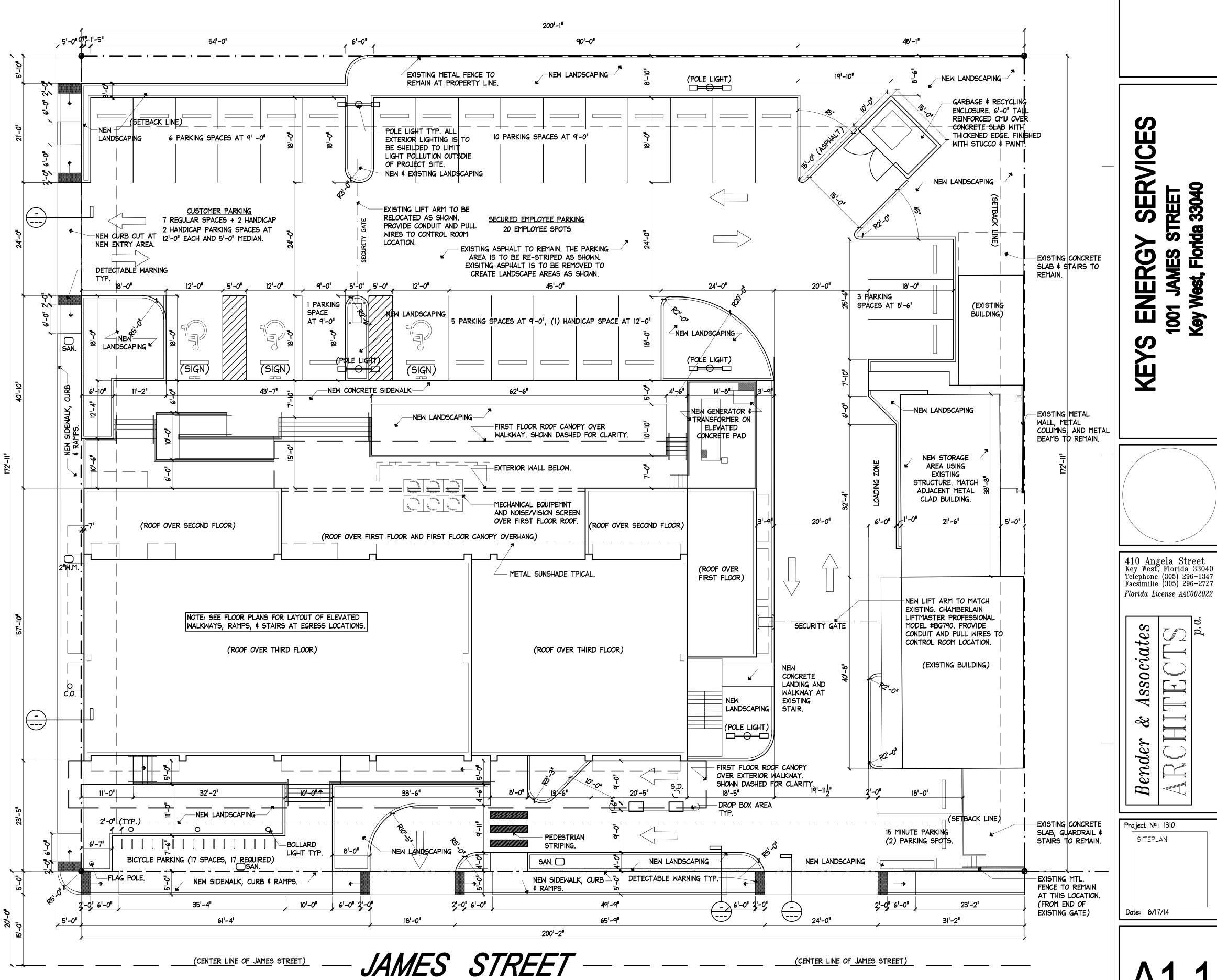
Water Quality Calculatio	ns - 25yr/	72hr Des	ign Stori	m	
Water Quality					
Project Area		0.794	ac	34,605	st
Surface Water		0.000	ac	0	sf
Roof Area		0.283	ac	12,342	sf
Pavement/Walkways		0.384	ac	16,714	sf
Pervious area		0.127	ac	5,549	sf
Impervious area for water Quality					
(Site area for Water Quality - Pervious area)		0.384	ac	16,714	sf
% Impervious		48%			
A) One inch of runoff from project area	_	0.794	ac-in	_	
B) 2.5 inches times percent impervious		0.959	ac-in		
(2.5 x percent impervious x (site area - surface w	vater))			-	
Comparision of Water Quality Methods					
		0.794	<	0.959	
		ac-in		ac-in	
Total Volume Required	0.959	ac-in		3,482	C.
Swale Volume Provided	0.313	ac-in		1,137	C
Exfiltration Provided	0.689			2,501	C
Total Provided	1.002	ac-in		3,638	C1

Exfilitration Trench De	sign	
equired trench length (L) =		
V		
K (H2W+2H2Du - Du^2 +2H2Ds) + 1.39x10^	`-4(W)(Du)	
Assumed Hydraulic Conductivity, K= 0	0.0000145	
H =	3	ft
W =	6	ft
Du =	1.5	ft
Ds =	3.5	ft
Volume of Trench , V =	0.646	ac-in
Trench Length Required =	337	FT

Y SERVICES		REVISIONS:	ORIGINAL: APRIL 2014		CIVIL
S STREET	1001 JAMES STREET	23			
, FL 33040	KEY WEST, FL 33040			ALLEN E. PEREZ, P.E.	PER
	DRAINAGE PLAN	9		Florida P.E. NO. 51468 August 13, 2014	Q CERT
J	1]	J]	

PROJECT STATISTIC			
FEMA FLOOD ZONE	ZONE 'AE(7)' EXIS'	TING FINISHED FLOOR: 6'-0" ABV. MSL.	
ZONING DESIGNATION	HRCC-2		
LOT SIZE	34,600 S.F.		
NO. OF UNITS	1 BUILDING UNDER	SCOPE. 3 BUILDINGS ON SITE	
	REQUIRED	EXISTING	PROPOSED
BUILDING COVERAGE 34,600 S.F. X 50%	17,300 S.F. MAX.	13,500 S.F.	13,450 S.F.
BUILDING HEIGHT	35'-0" MAX.	43'-11" (EXISTING)	43'-11" (EXISTING)
IMPERVIOUS SURFACE 34,600 S.F. X 60%	20,760 S.F. MAX.	33,215 S.F.	30,100 S.F.
FLOOR AREA	17,300 S.F. (FAR)	23,060 S.F. (21,450 S.F. MAIN BUILDING)	22,300 S.F. (19,500 S.F. MAIN BUILDING)
FRONT SETBACK	10'-0" MIN.	12'-6"	12'-6"
STREET SIDE SETBACK	7'-6" MIN.	0'-5" (3'-6" OVER AT ROOF CANOPY & SHADE STRUCTURES)	0'-5" (3'-6" OVER AT ROOF CANOPY & SHADE STRUCTURES)
SIDE SETBACK	5'-0" MIN.	2-1/2" TO ACCESSORY STRUCTURE 56'-10" TO MAIN BUILDING	2-1/2" TO ACCESSORY STRUCTURE 56'-10" TO MAIN BUILDING
REAR SETBACK	15'-0" MIN.	68'-8"	68 ¹ -8 ¹¹
PARKING SPACES	65	44 PLUS 50 AT ADJACENT PARKING GARAGE	30 PLUS 50 AT ADJACENT PARKING GARAGE.
FLOOR AREA & RATIO	.50	.67	.64
OPEN SPACE AREA \$ RATIO	6,920 S.F. (20%)	1,385 S.F. <i>(4%)</i>	4,500 S.F. (14%)

NOTE: EXISTING FINISH FLOOR ELEVATION IS AT 6'-0" ABOVE MEAN SEA LEVEL. THE PROPOSED RENOVATION OF THE BUILDING INCLUDES FLOOD PROOFING MEASURES TO 10'-6" ABOVE MEAN SEA LEVEL (3'-6" ABOVE BASE FLOOD ELEVATION).



SCALE: 3/32"=1'-0" PROJECT NORTH

CITY COMMISSION 9.16.14

Associates

જ

Bender

Project Nº: 1310

SITEPLAN

SERVICES

ENERGY

1001 JAMES Key West, Flori

. ALL FIXTURES AND FINISHES ARE TO BE REMOVED. INTERIOR PARTITION WALLS, ALL EXTERIOR DOORS, AND ALL EXTERIOR WINDOWS ARE TO BE REMOVED. WHERE EXISTING INTERIOR WALLS ARE INDICATED TO REMAIN THE EXISTING DRYWALL IS TO BE REMOVED. AT THE INTERIOR STAIRWELL THE EXISTING PLASTER

FINISH IS TO REMAIN 2. ALL CONCRETE COLUMNS, CONCRETE/CMU EXTERIOR WALLS, CONCRETE FLOOR SLABS, AND OTHER STRUCTURAL FRAMING MEMBERS ARE TO REMAIN

3. REMOVE ALL ROOFING, FLASHING, AND DRAINS. 4. SEE MEP PLANS FOR MORE DETAILS AND NOTES ON DEMOLITION OF MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS. 5. ALL EXTERIOR CONDUIT, WIRES, PLUMBING, SHUTTERS, EQUIPMENT STANDS, JUNCTION BOXES, AND ÉLECTRICAL FIXTURES

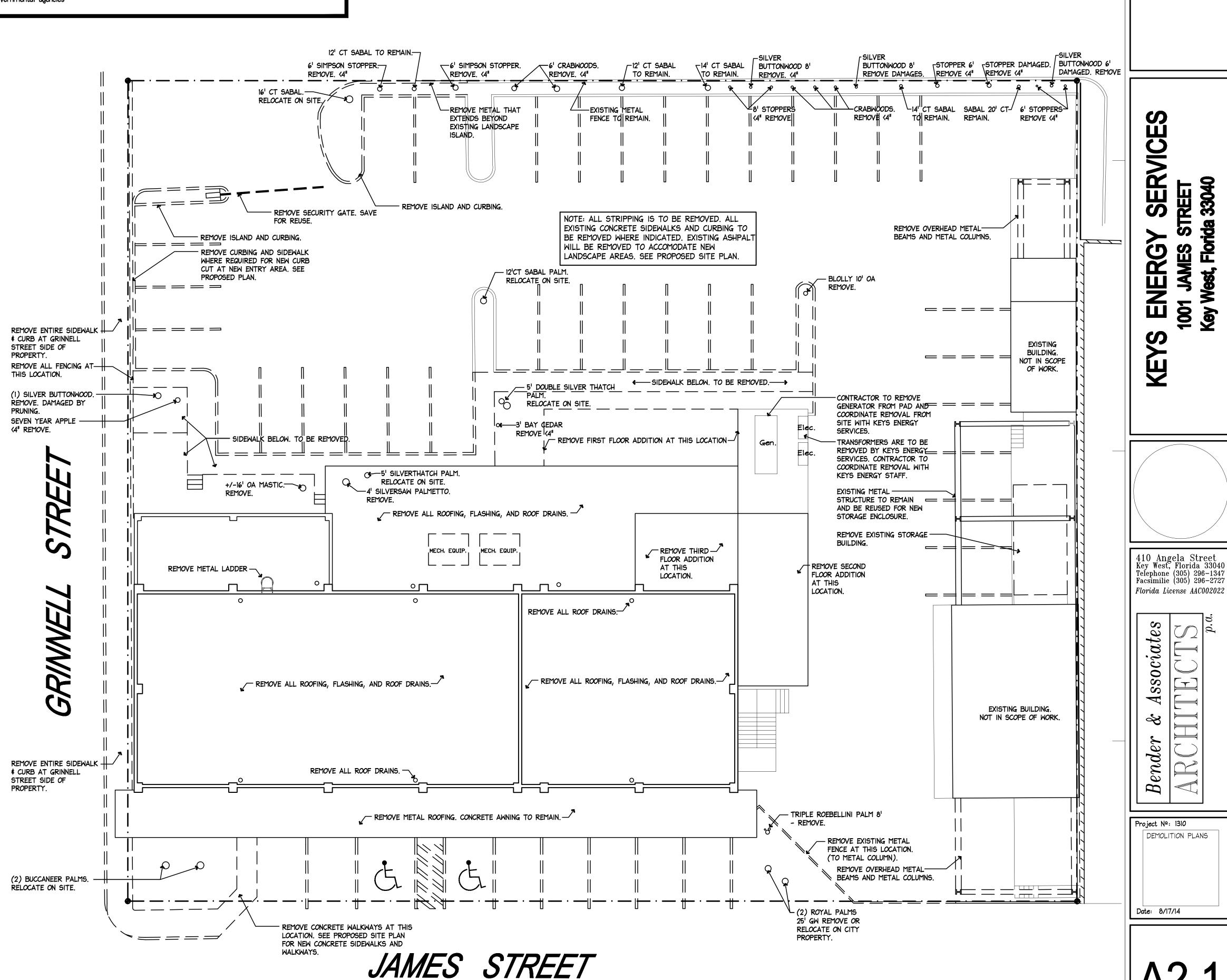
ARE TO BE REMOVÉD. 6. ASBESTOS ABATEMENT WILL BE REQUIRED FOR THIS PROJECT. REFER TO THE SPECIFICATIONS FOR 'EE&G ENVIRONEMNTAL SERVICES' LIMITED ASBESTOS PRE-RENOVATION INSPECTION REPORT.

DEMOLITION NOTES

- Remove all miscellaneous fasteners such as nails, screws and clips, as required, to allow patching of existing finishes. Some fasteners will not be able to be removed without extensive damage to historic finishes. Subject to concurrence by the Architect, such fasteners may remain, but must be treated to inhibit rust after cutting back
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- general public and workers connected with the project. Provide bracing and shoring as required to protect the safety of the general public and workers connected with the project.

1 DEMOLITION SITE PLAN

A2.1 SCALE: 1/8"=1'-0"



CITY COMMISSION 9.16.14

1. ALL FIXTURES AND FINISHES ARE TO BE REMOVED. INTERIOR PARTITION WALLS, ALL EXTERIOR DOORS, AND ALL EXTERIOR WINDOWS ARE TO BE REMOVED. WHERE EXISTING INTERIOR WALLS ARE INDICATED TO REMAIN THE EXISTING DRYWALL IS TO BE REMOVED. AT THE INTERIOR STAIRWELL THE EXISTING PLASTER

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DEMOLITION NOTES

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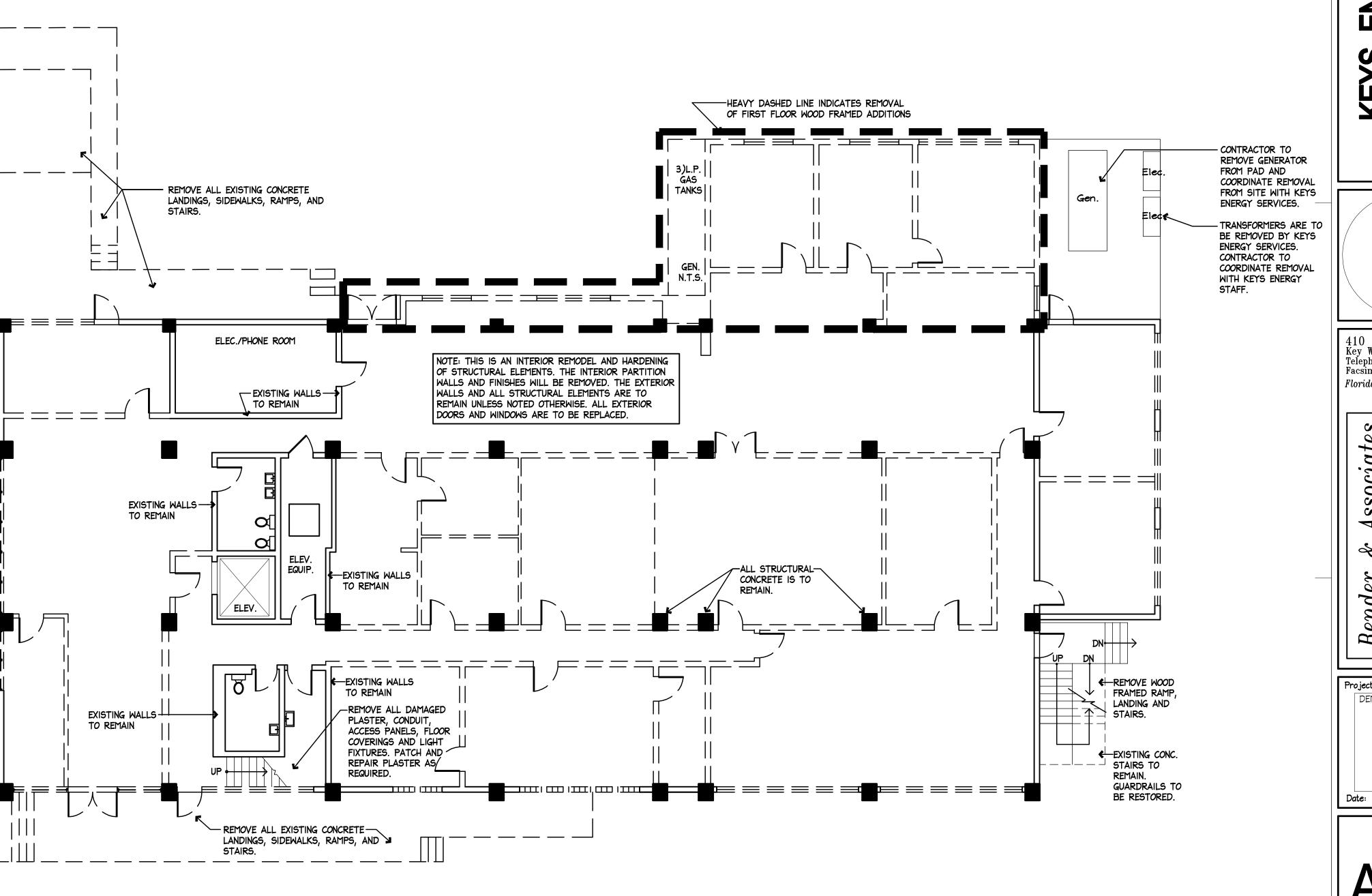
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SERVICES 1001 JAMES Key West, Flori

CITY COMMISSION 9.16.14

410 Angela Street Key West, Florida 33040 Telephone (305) 296-1347 Facsimilie (305) 296-2727 Florida License AAC002022

ssociates W શ્ર ender B

Project Nº: 1310 DEMOLITION PLAN Date: 8/17/14

1 DEMOLITION PLAN: FIRST FLOOR A2.2 SCALE: 1/8"=1'-0"

1. ALL FIXTURES AND FINISHES ARE TO BE REMOVED. INTERIOR PARTITION WALLS, ALL EXTERIOR DOORS, AND ALL EXTERIOR WINDOWS ARE TO BE REMOVED. WHERE EXISTING INTERIOR WALLS ARE INDICATED TO REMAIN THE EXISTING DRYWALL IS TO BE REMOVED. AT THE INTERIOR STAIRWELL THE EXISTING PLASTER

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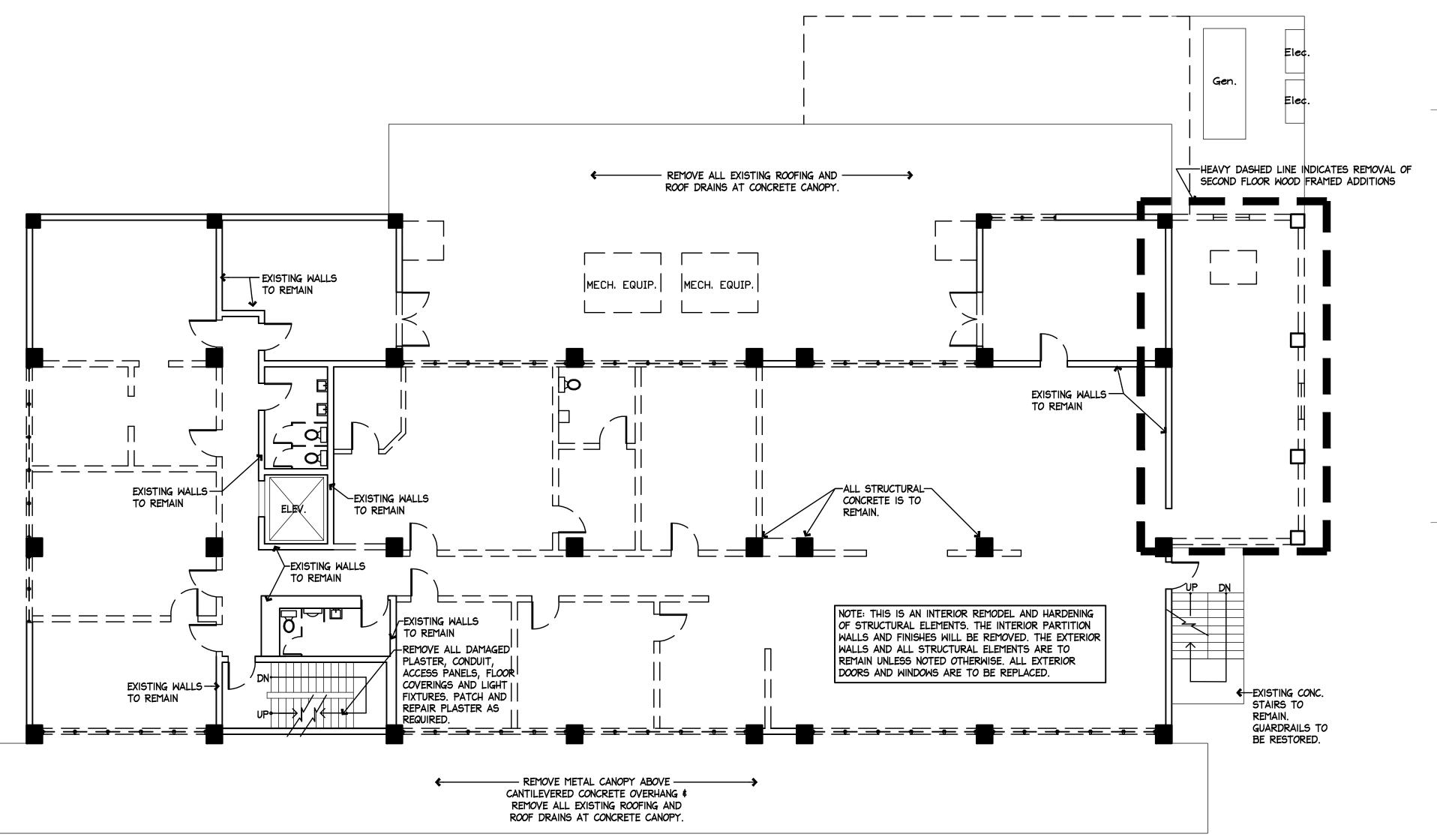
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DEMOLITION NOTES

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CITY COMMISSION 9.16.14 SERVICES **ENERGY** 1001 JAMES Key West, Flori 410 Angela Street Key West, Florida 33040 Telephone (305) 296-1347 Facsimilie (305) 296-2727 Florida License AAC002022 Issociates W શ્ર

Bender

Project Nº: 1310

Date: 8/17/14

DEMOLITION PLANS

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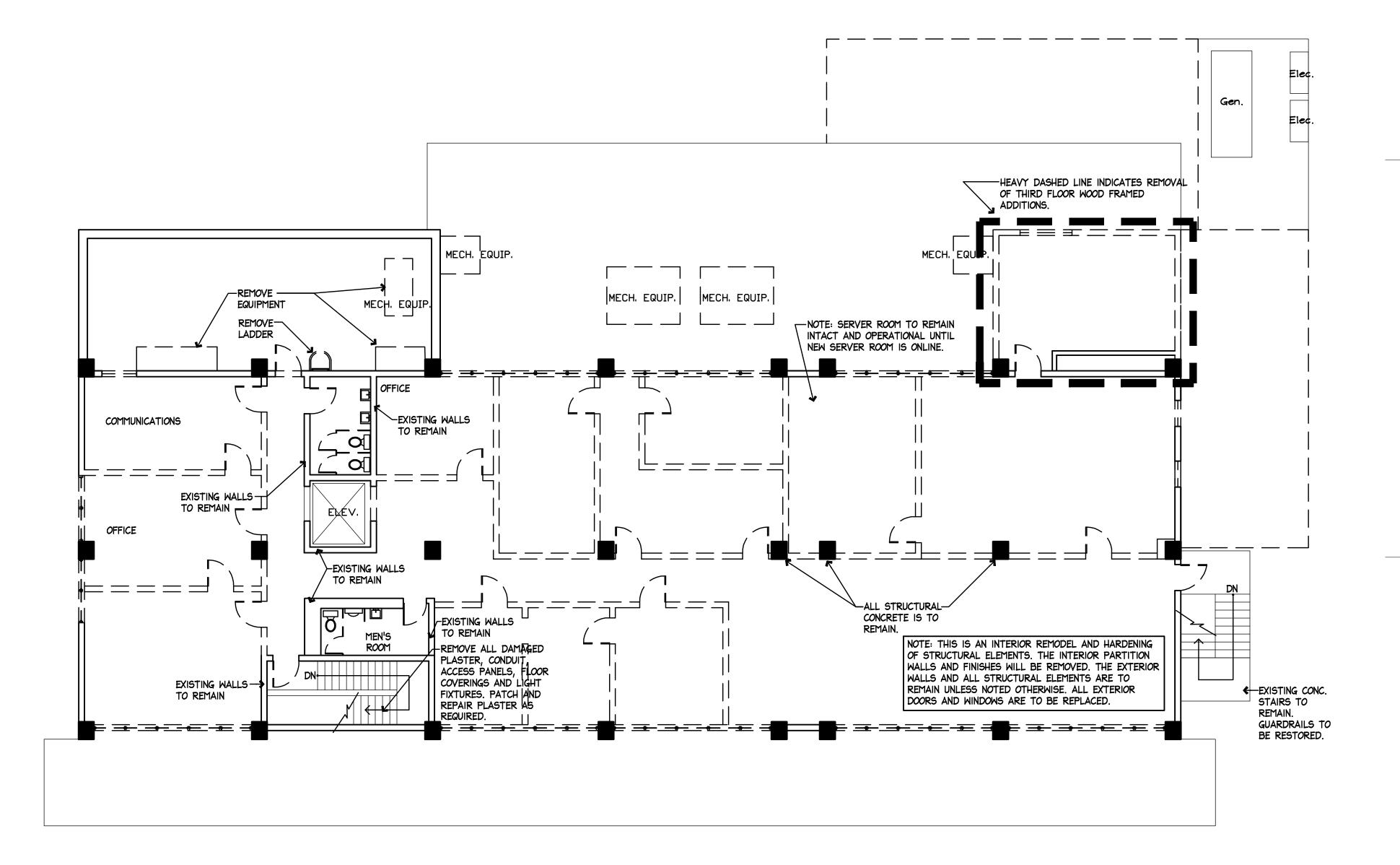
DEMOLITION NOTES

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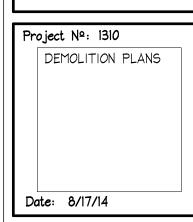


CITY COMMISSION 9.16.14

SERVICES 1001 JAMES Key West, Flori



ssociates W જ Bender



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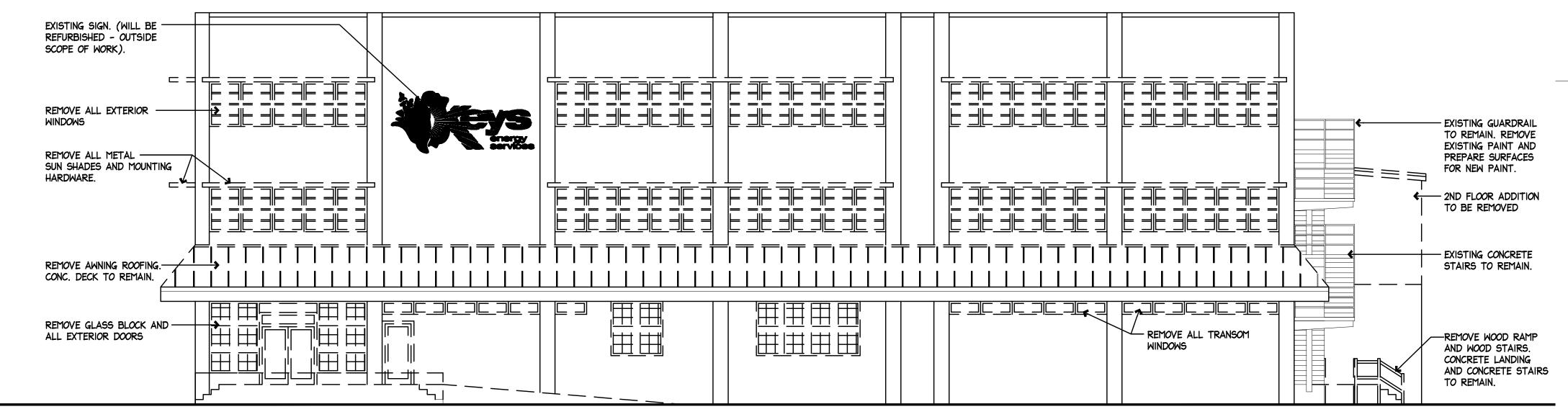
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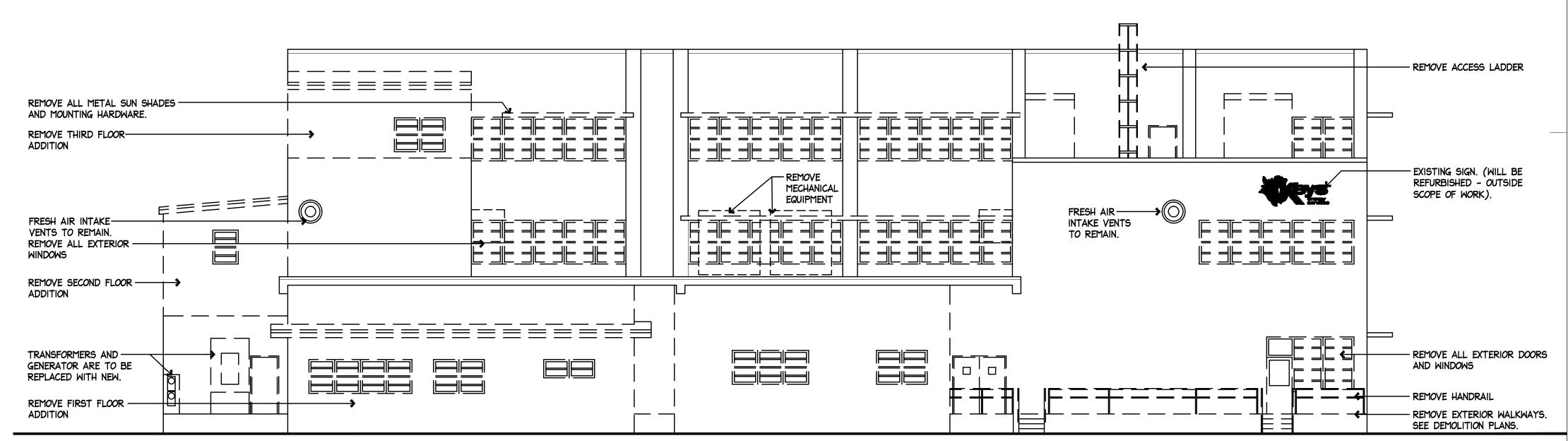
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I DEMOLITION PLAN: SOUTH ELEVATION A2.5 SCALE: 1/8"=1'-0"



2 DEMOLITION PLAN: NORTH ELEVATION A2.5 SCALE: 1/8"=1'-0"

SERVICES MES STREET Florida 33040 ENERGY Key West, **18** KEY

CITY COMMISSION 9.16.14

410 Angela Street Key West, Florida 33040 Telephone (305) 296-1347 Facsimilie (305) 296-2727 Florida License AAC002022

Associates વ્ Bender

Project Nº: 1310 DEMOLITION ELEVATIONS Date: 8/17/14

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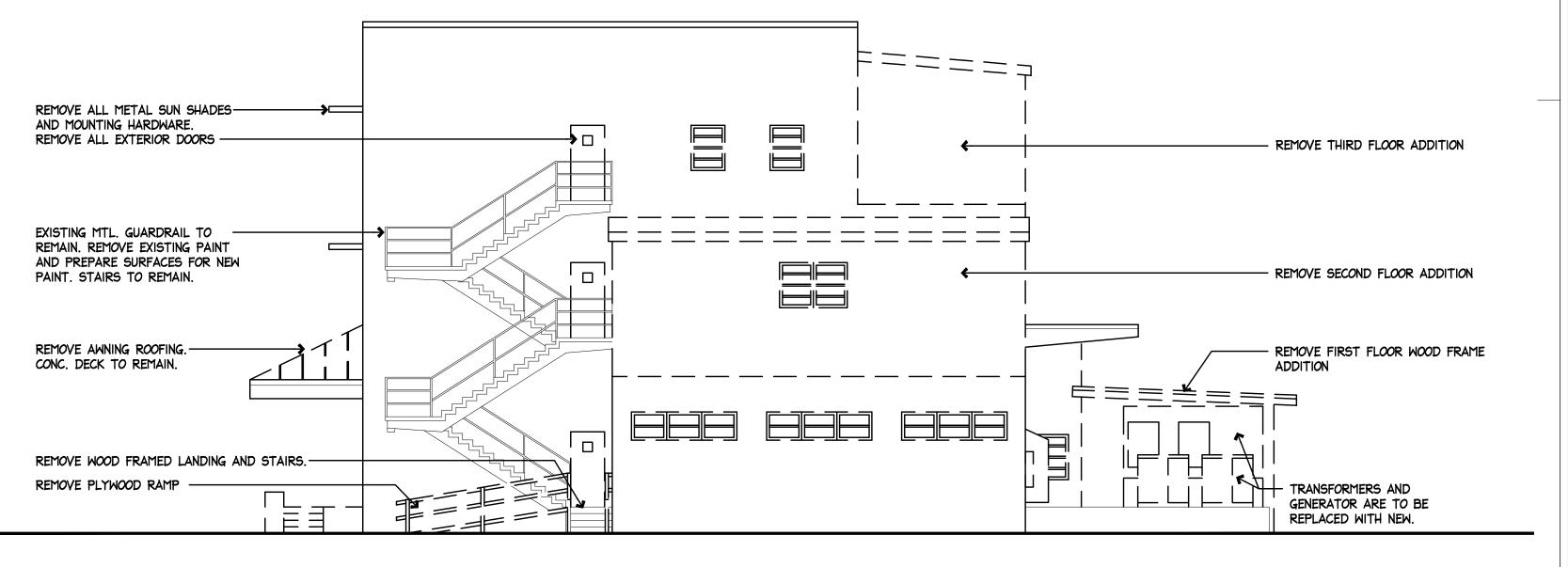
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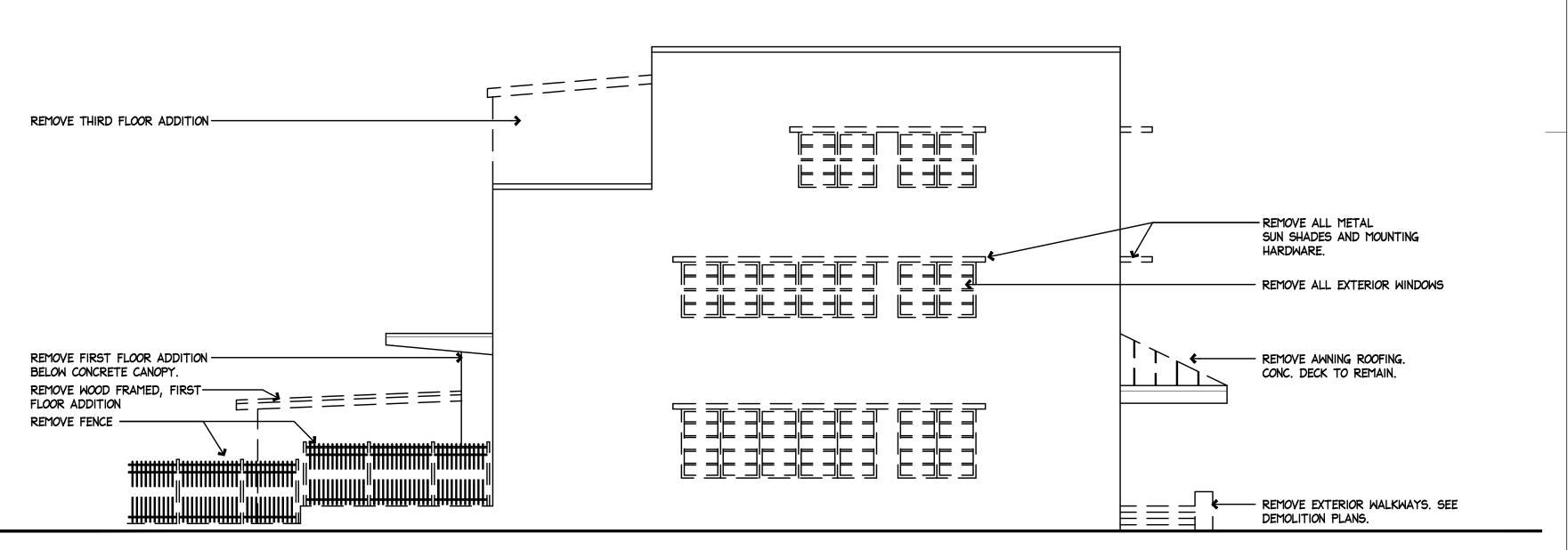
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2 DEMOLITION PLAN: EAST ELEVATION A2.6 SCALE: 1/8"=1'-0"



2 DEMOLITION PLAN: WEST ELEVATION A2.6 SCALE: 1/8"=1'-0"

SERVICES **ENERGY** 1001 JAMES Key West, Flori **KEYS**

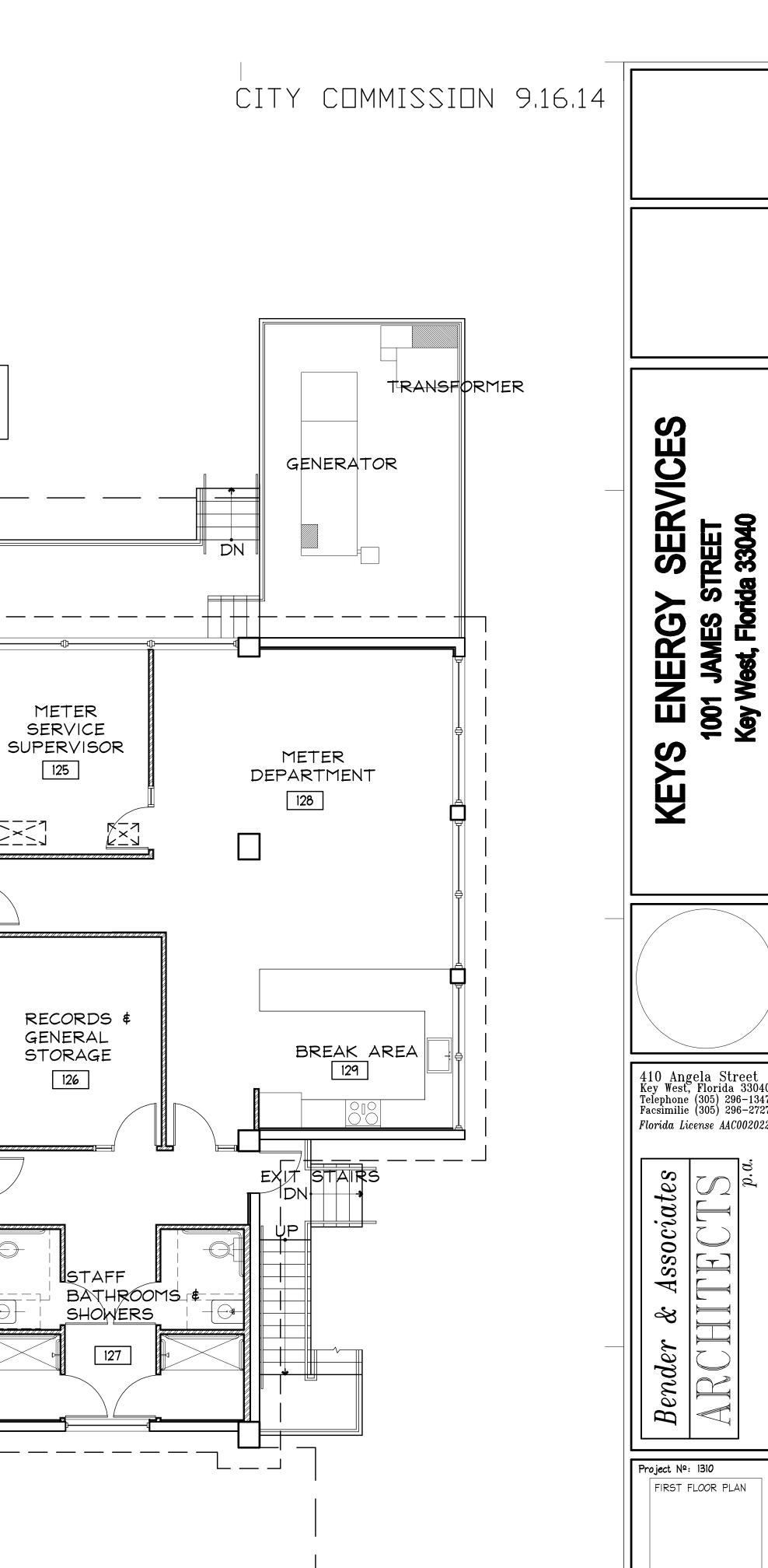
CITY COMMISSION 9.16.14

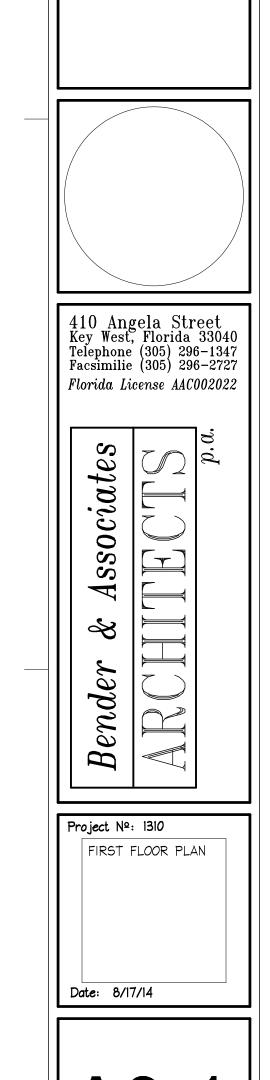
410 Angela Street Key West, Florida 33040 Telephone (305) 296-1347 Facsimilie (305) 296-2727 Florida License AAC002022

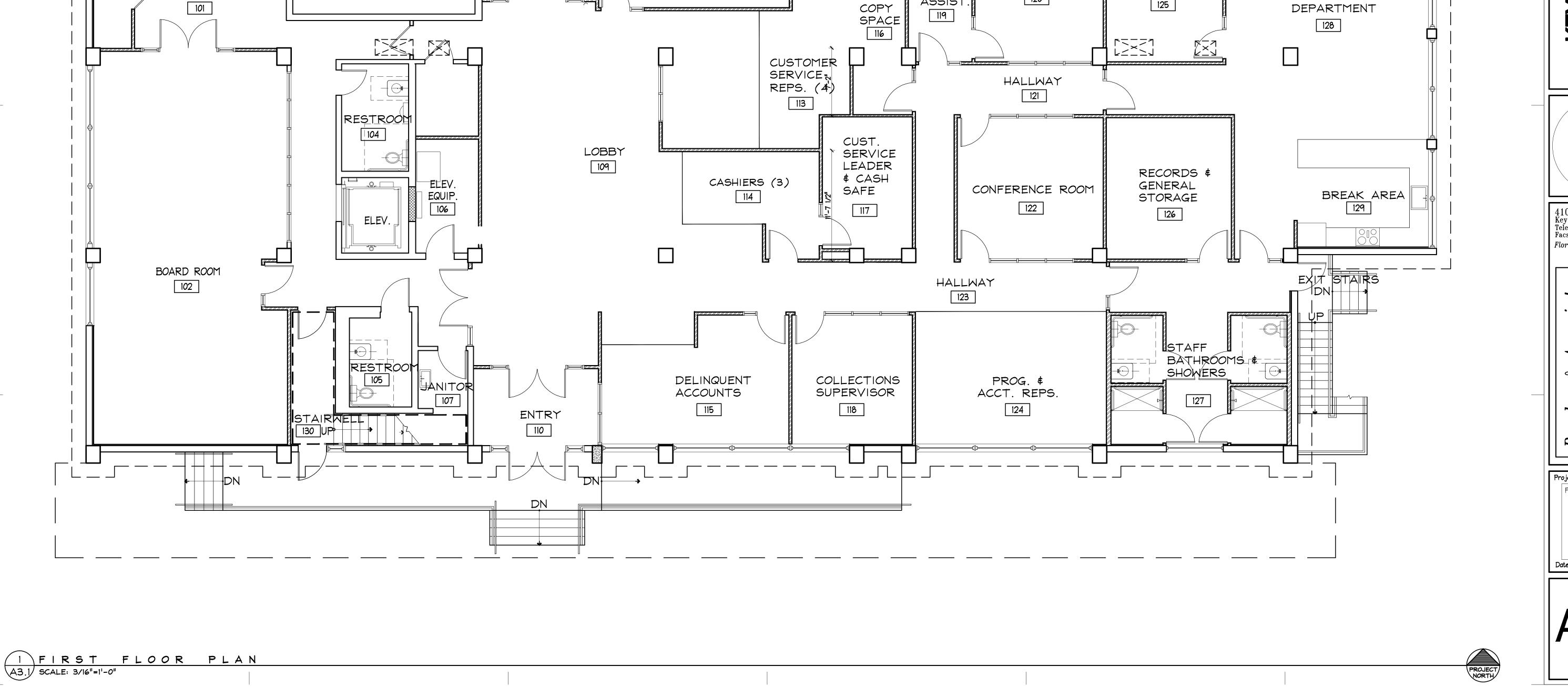
Associates ઋ Bender

Project Nº: 1310 DEMOLITION ELEVATIONS

Date: 8/17/14







WORKSPACE FOR CUST. SERV. REPS.-PHONES +

12

STAFF.

ASSIST

119

INTERNET

ENTRY

108

EXISTING ELEC./PHONE ROOM

103

BOARD ROOM

LOBBY & STORAGE

101

CUSTOMER

SUPERVISOR

SERVICE

111

NOTE: EXISTING FINISH FLOOR ELEVATION IS AT 6'-0" ABOVE MEAN SEA LEVEL. THE PROPOSED RENOVATION OF THE BUILDING INCLUDES FLOOD PROOFING MEASURES TO 10'-6" ABOVE MEAN SEA LEVEL (3'-6" ABOVE BASE FLOOD ELEVATION).

CUSTOMER

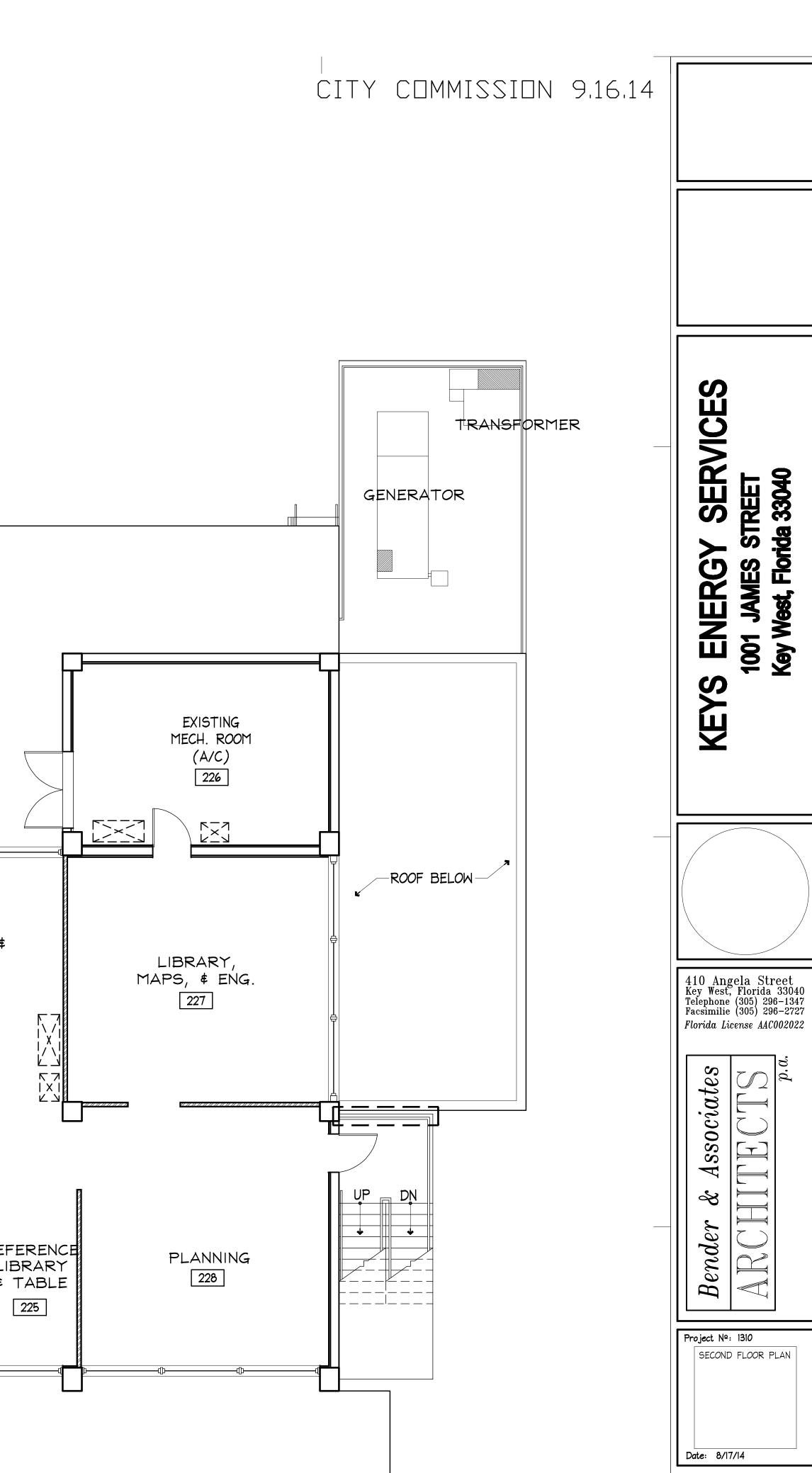
SERVICE

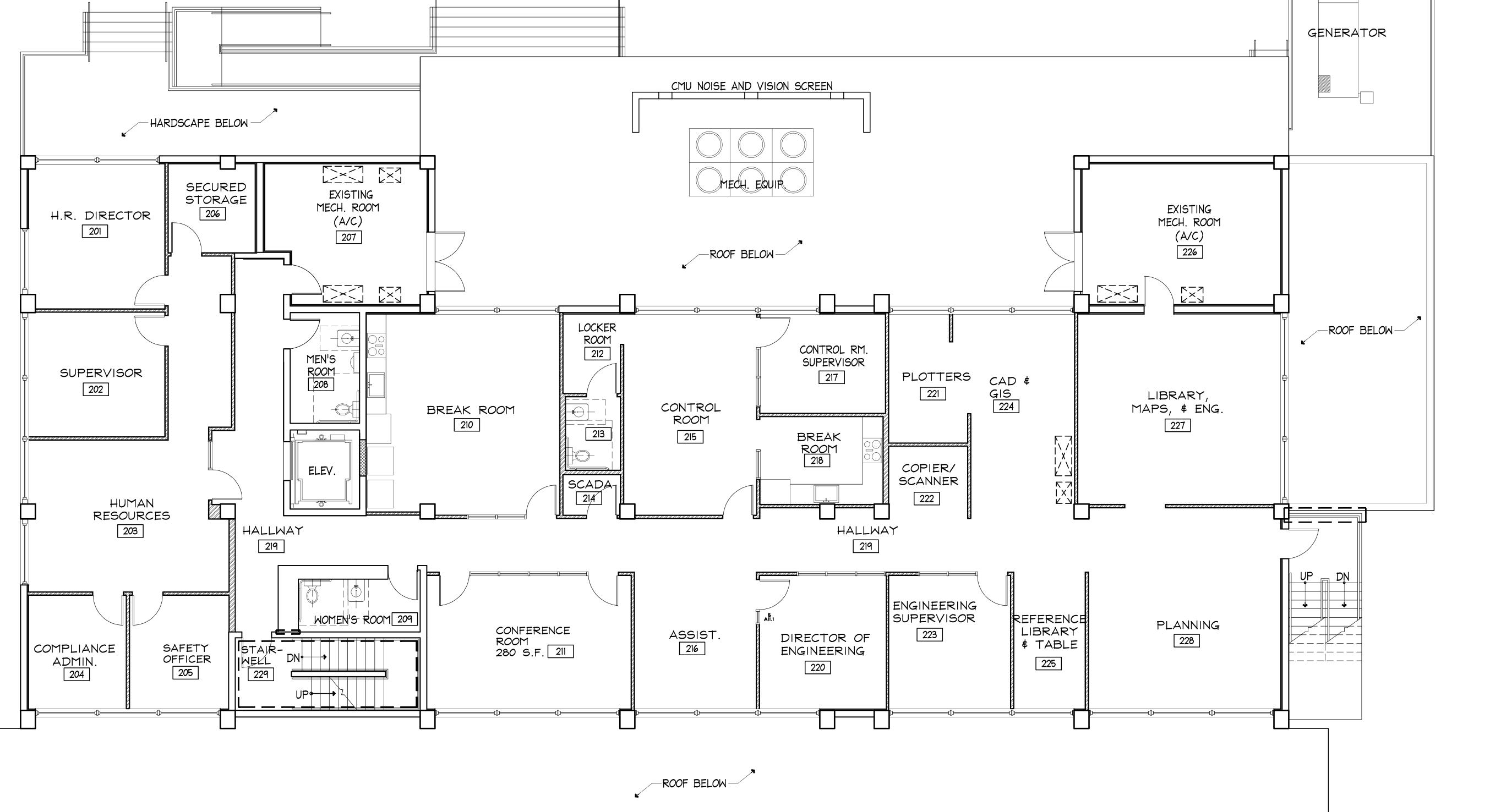
DIRECTOR

125

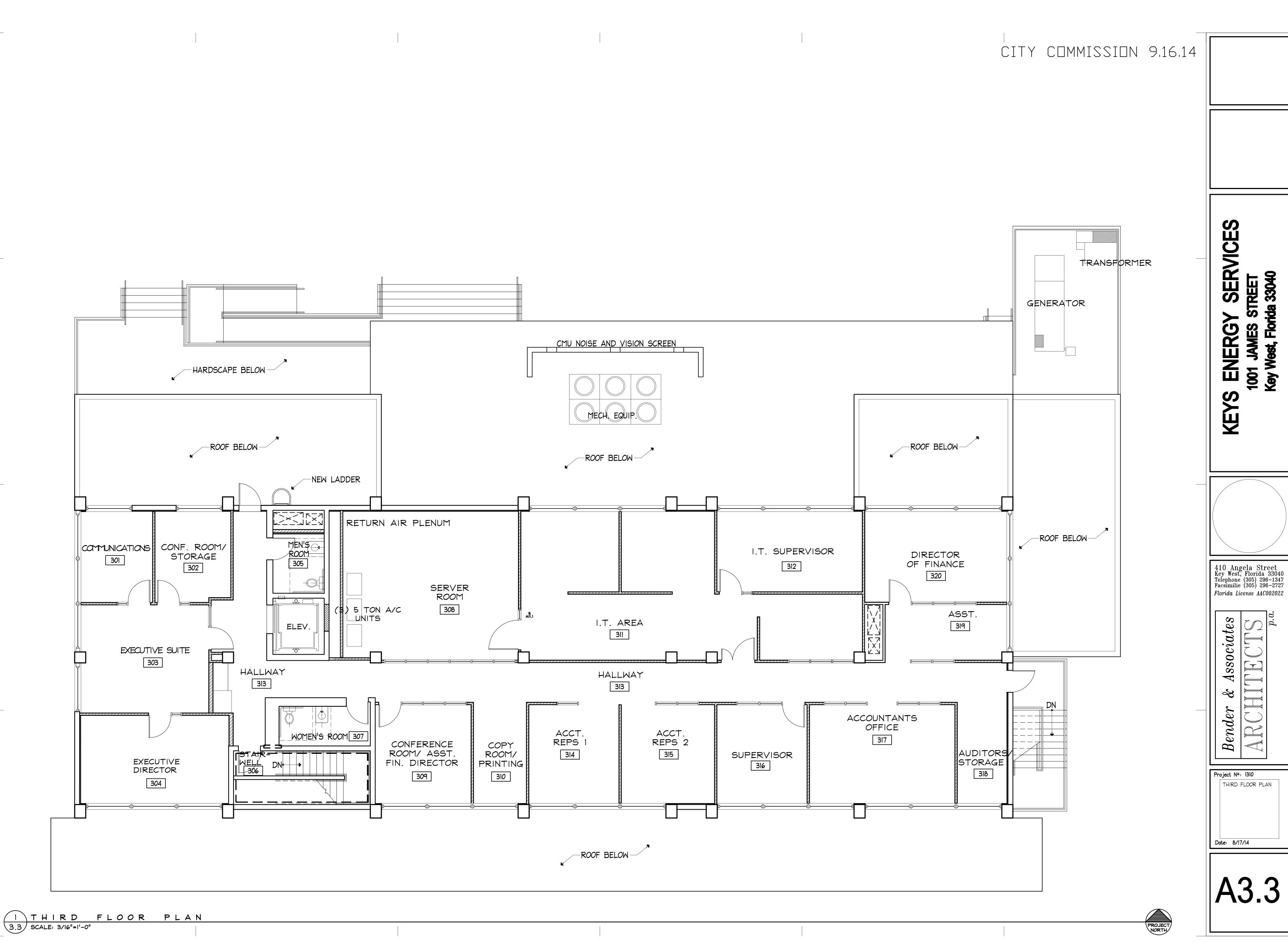
120

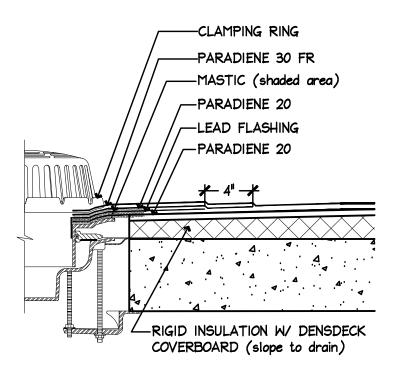
1 FIRST FLOOR PLAN





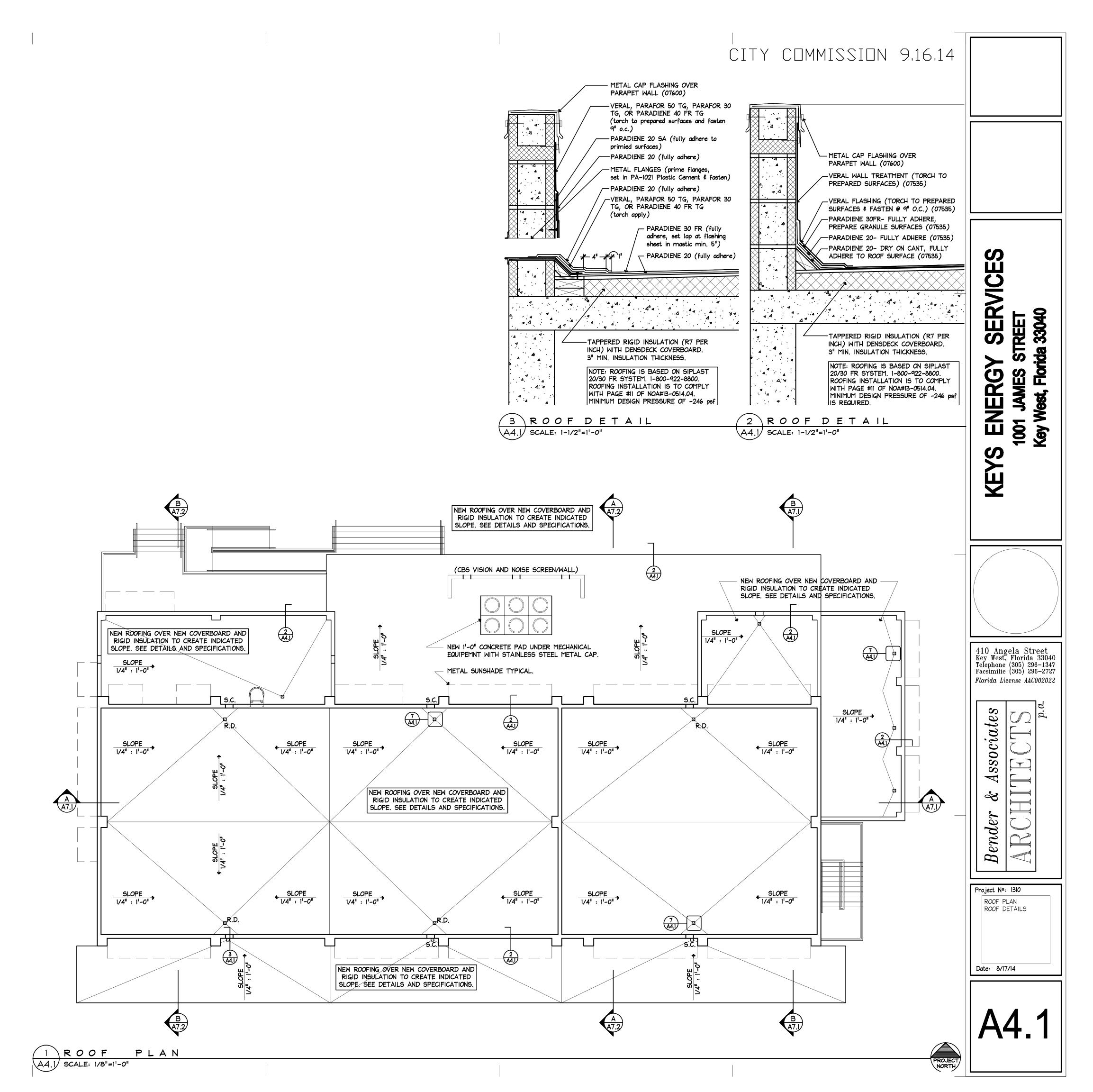
SECOND FLOOR PLAN 3.2 SCALE: 3/16"=1'-0"





7 ROOF DETAIL

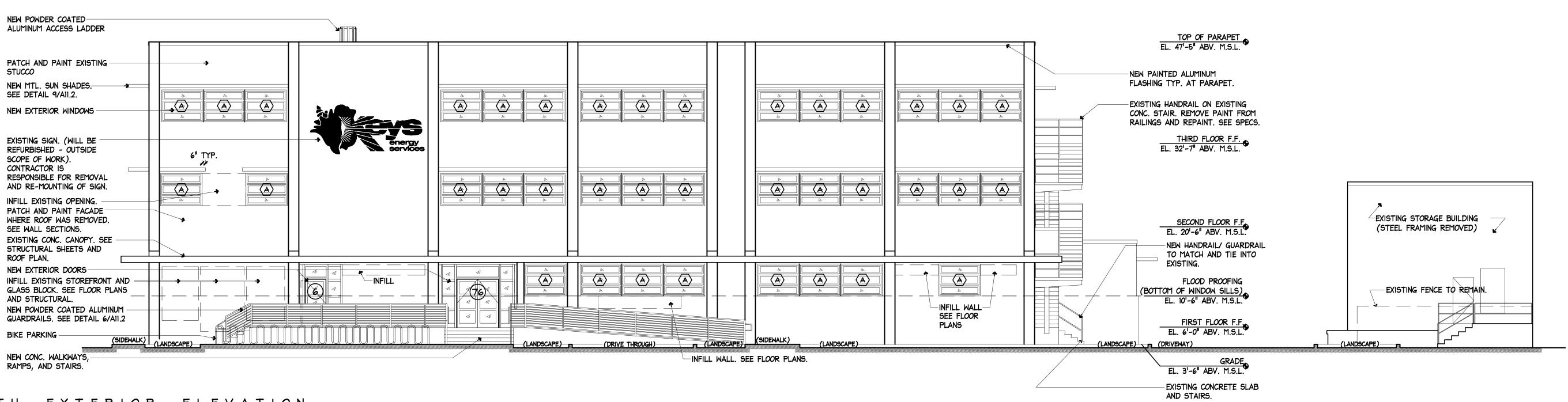
A4.1 SCALE: 1-1/2"=1'-0"



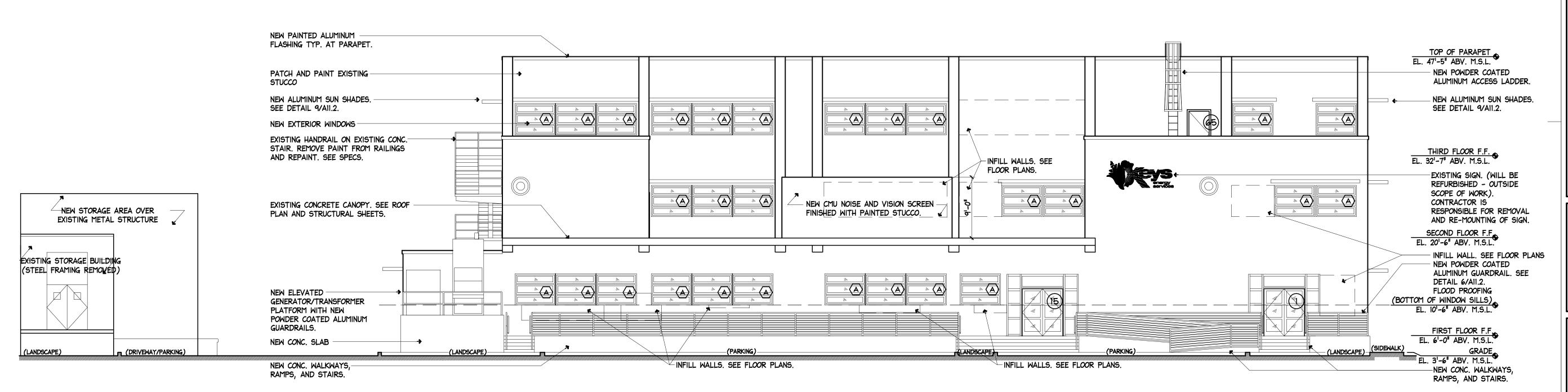
CITY COMMISSION 9.16.14

GENERAL EXTERIOR ELEVATION NOTE:

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2 SOUTH EXTERIOR ELEVATION
A6.1 SCALE: 1/8"=1'-0"



NORTH EXTERIOR ELEVATION

A6.1 SCALE: 1/8"=1'-0"

A6.1

SERVICES

KEY

410 Angela Street Key West, Florida 33040 Telephone (305) 296-1347 Facsimilie (305) 296-2727

Florida License AAC002022

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Project №: 1310

Date: 8/17/14

EXTERIOR ELEVATIONS

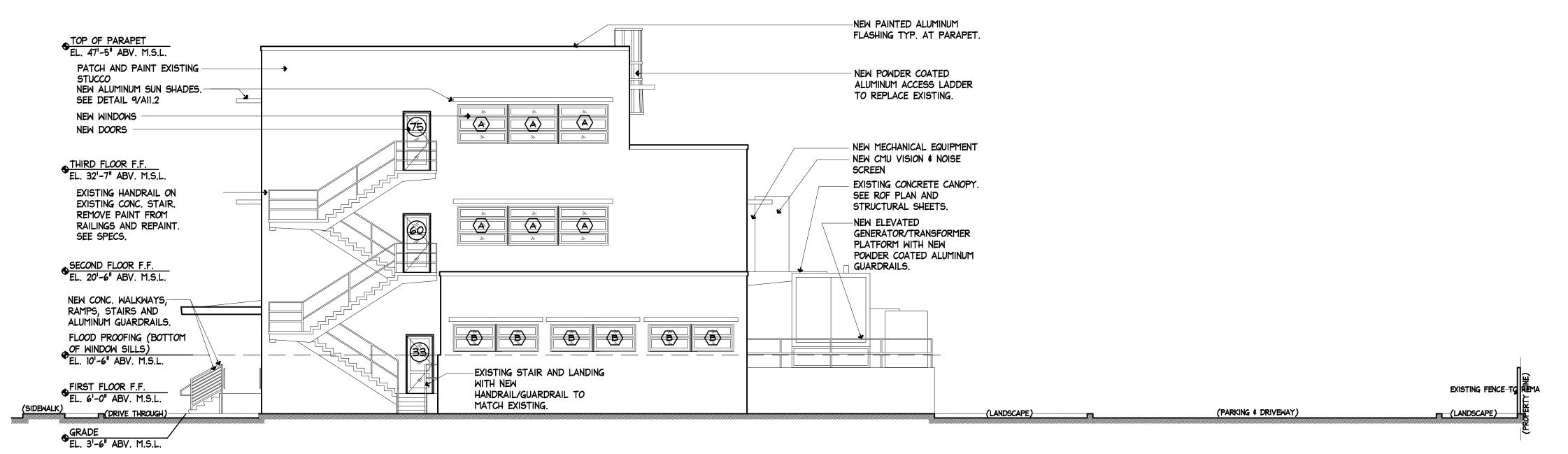
MES STREET, Florida 33040

1001 JAMI Key West, I

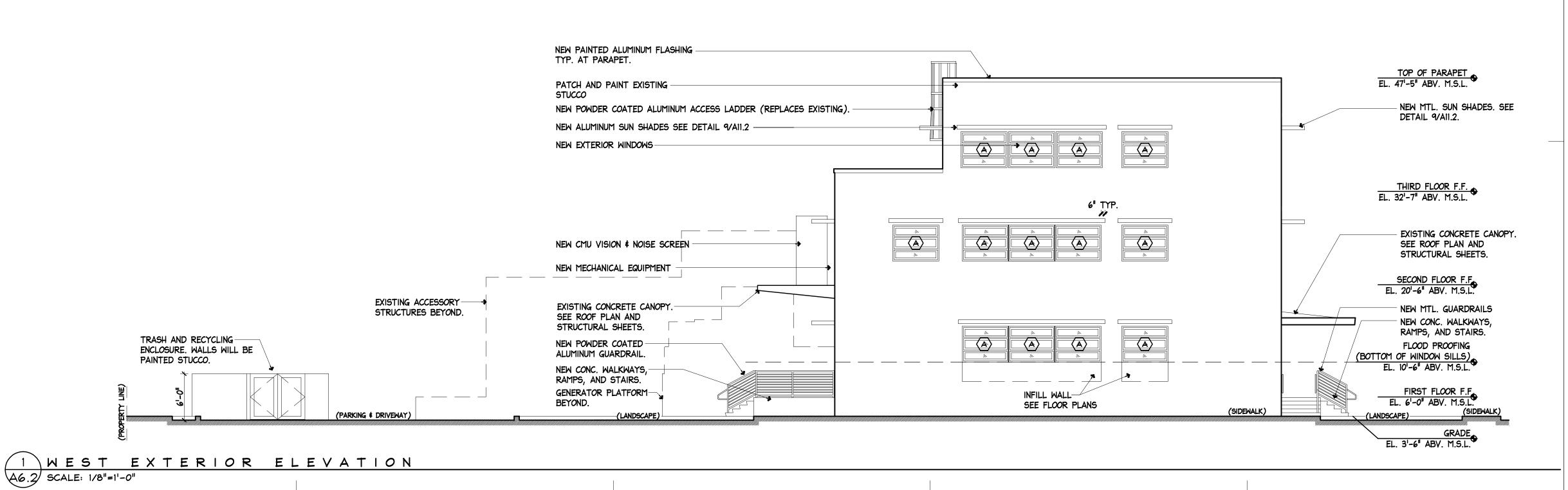


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2 EAST EXTERIOR ELEVATION
A6.2 SCALE: 1/8"=1'-0"



KEYS ENERGY SERVICES
1001 JAMES STREET
Key West, Florida 33040

410 Angela Street

A10 Angela Street
Key West, Florida 33040
Telephone (305) 296-1347
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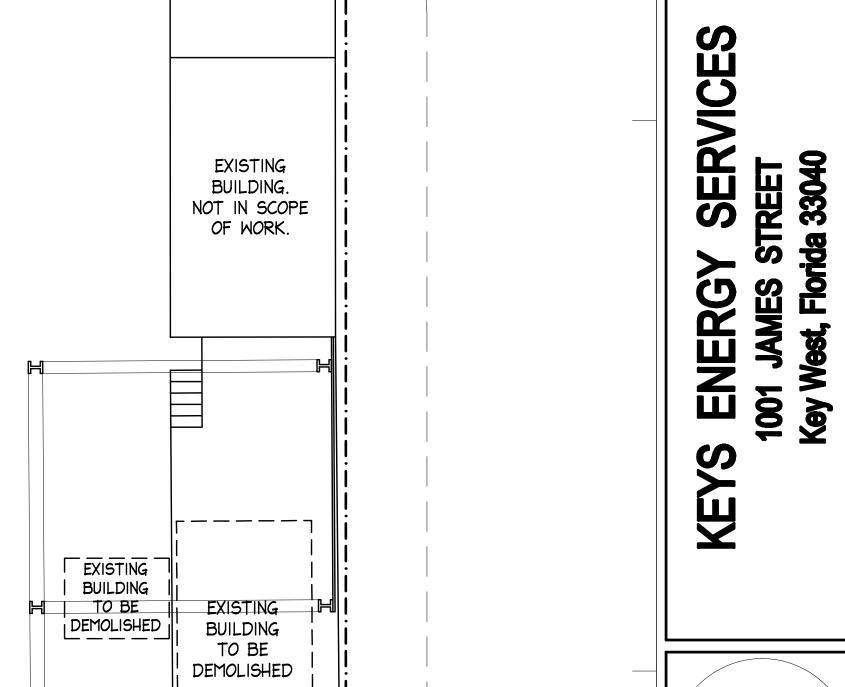
Project Nº: 1310

EXTERIOR ELEVATIONS

Date: 8/17/14

A6.2

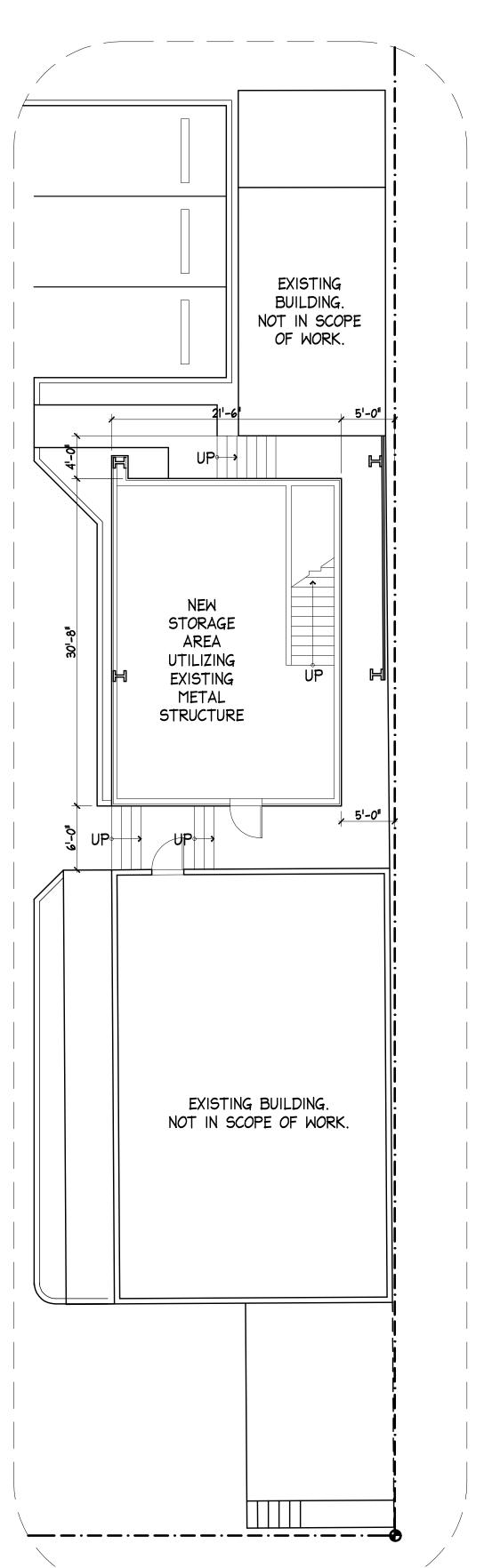
METAL FRAMING
TO BE REMOVED

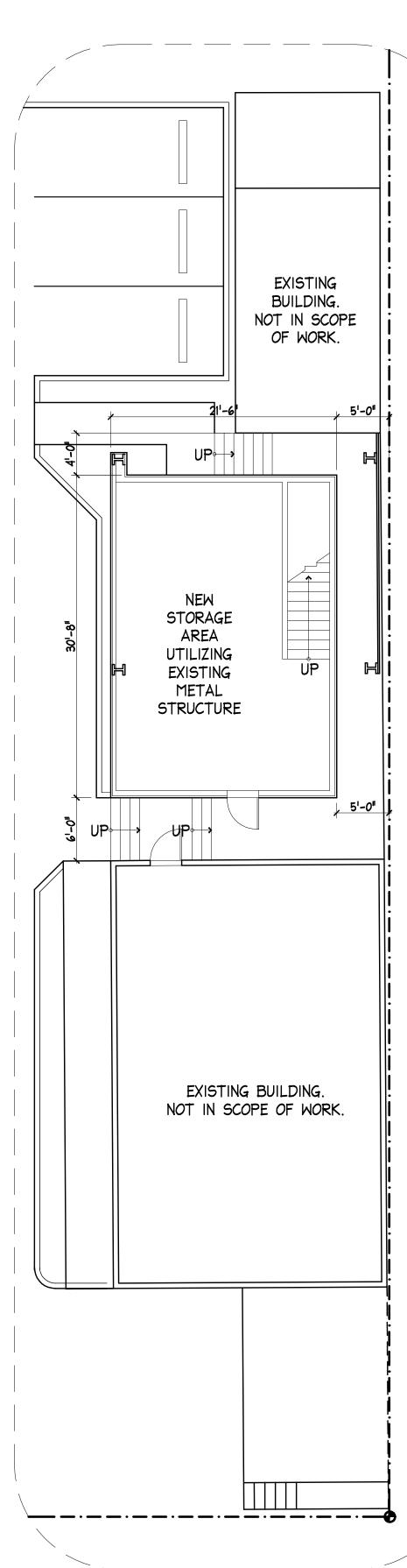


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Project №: 1310 Date: 8/17/14





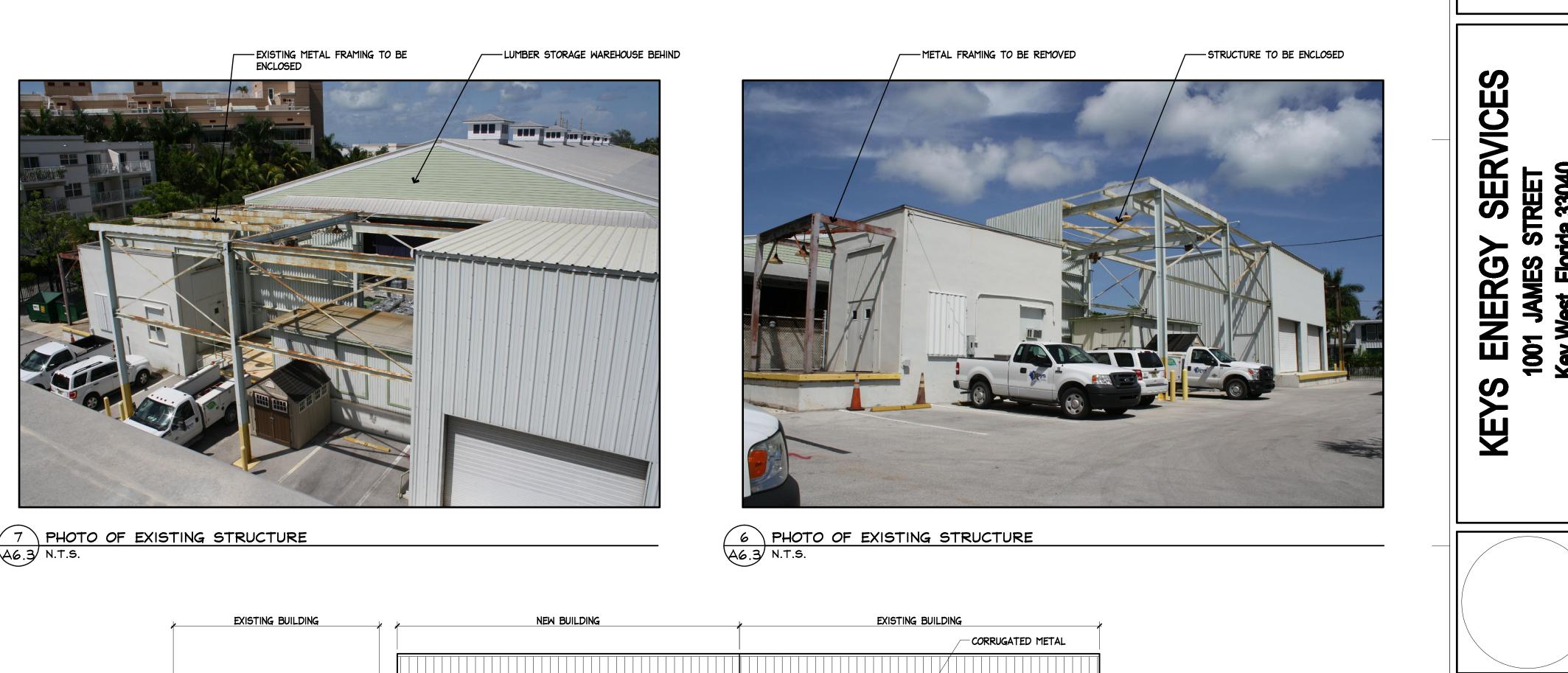
EXISTING BUILDING. NOT IN SCOPE OF WORK.

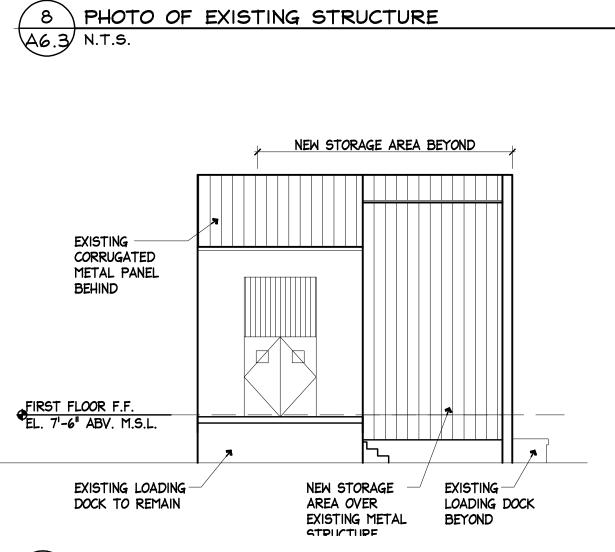
NEW
STORAGE
AREA
UTILIZING
EXISTING
METAL
STRUCTURE

EXISTING BUILDING. NOT IN SCOPE OF WORK.

| K METAL FRAMING | TO BE REMOVED

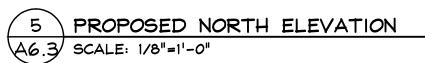
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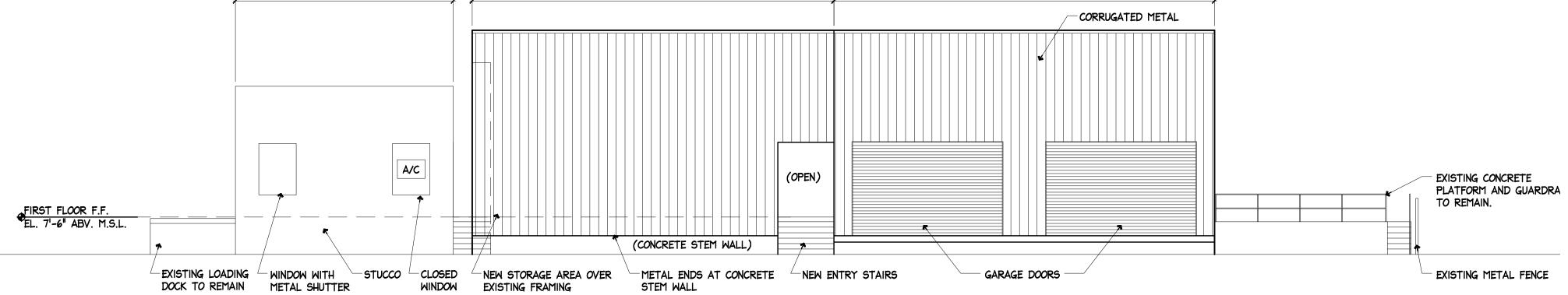


A6.3 SCALE: 1/8"=1'-0"

LUMBER STORAGE WAREHOUSE BEHIND

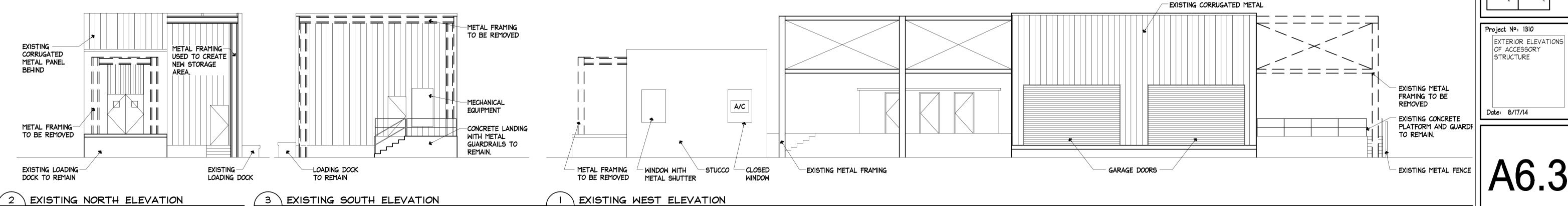


A6.3 SCALE: 1/8"=1'-0"





A6.3 SCALE: 1/8"=1'-0"



410 Angela Street Key West, Florida 33040 Telephone (305) 296-1347 Facsimilie (305) 296-2727

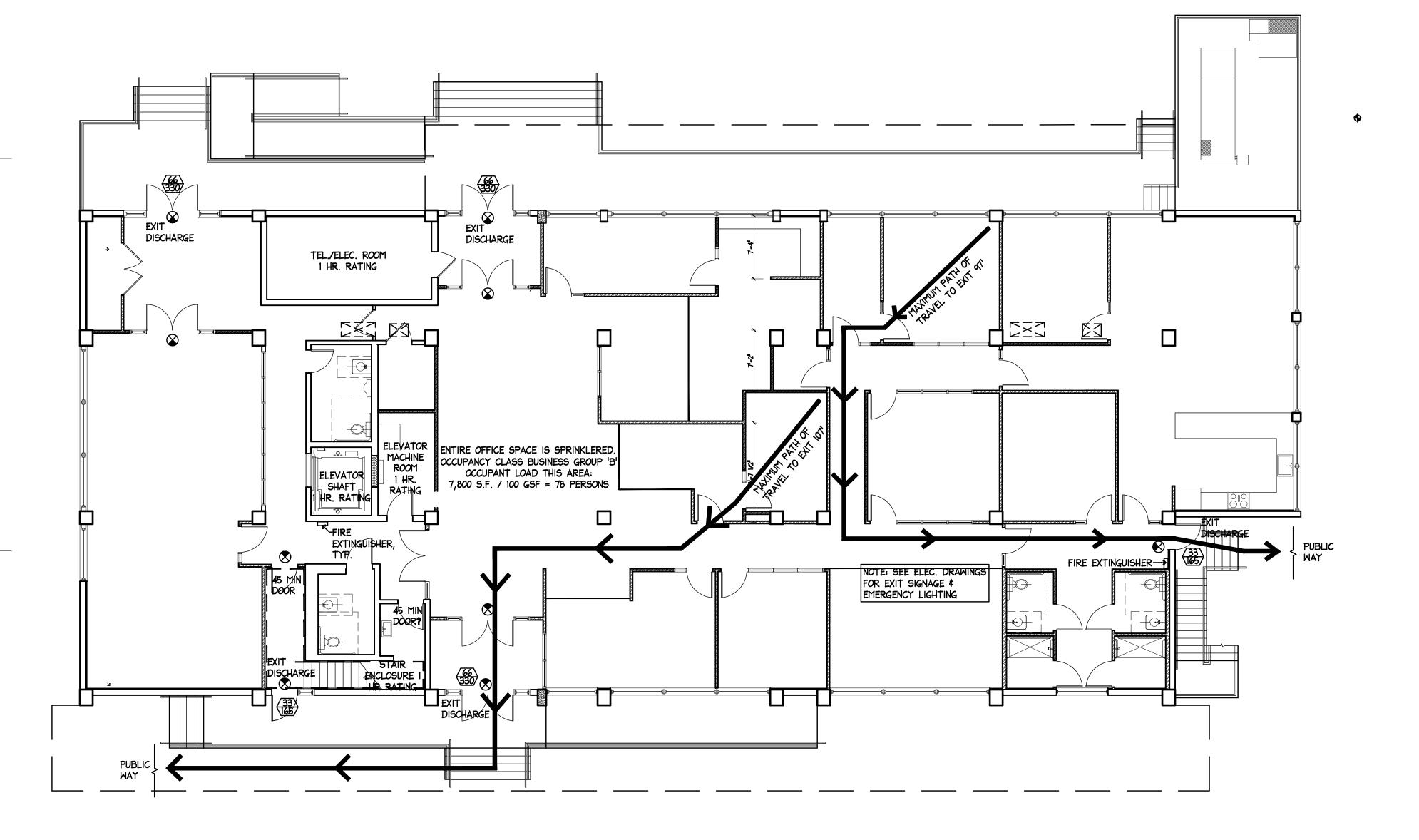
Florida License AAC002022

Associates

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Bender

STRUCTURE







FLORIDA BUILDING CODE 2010, BUILDING

2010 BUILDING
CODE SECTION Occupancy Classification:

Section 304 Offices: Group 'B' Business

Building Area:

7,800 s.f. 1st Floor: 6,300 s.f. 2nd Floor: 3rd Floor: 5,400 s.f.
Total: 19,500 s.f.

<u>Construction Type:</u> Type II-B construction, sprinklered.
Primary structural frame: 0 hours. Exterior / Interior Bearing walls: 0 hours. Exterior Non-bearing walls: 0 hours. Interior Non-bearing walls: 0 hours. Floor construction / Secondary members: 0 hours.

Allowable Building Heights \$ Areas: Table 503 (Automatic sprinkler system increase per Section 504.2)

Group # Stories Allowed: Area: Bldg. Height Area: Bldg. Height: 19,000sf/floor 75'

Table 1004.1.1 Occupancy Loads:

1st Floor: B Business 7,800 s.f. / 100 gross = 78 persons 2nd floor: B Business 6,300 s.f. / 100 gross = 63 persons 3rd Floor: B Business 5,400 s.f. / 100 gross = 54 persons

Roof construction / secondary members: 0 hours.

Table 707.3.9 Fire Resistant Separations: <u>Separation:</u> 2 hours. <u>Group:</u> B- Business

Table 1021.1 Number of Exits Required:

1st floor: 2 2nd floor: 2 3rd floor: 2

Exit Access Travel Distance: Occupancy Group: B-Business <u>Travel Distance:</u> 135' (300' allowable) OK.

Section 1005.1 <u>Egress Width:</u>
Existing Building:

1st Floor: 80 persons \times .3" = 24": (36" provided) 2nd Floor: 64 persons \times .3" = 19.2" (36" provided) 3rd Floor: 56 persons \times .3" = 16.8" (36" provided)

Section 1009.1 Minimum Stair Width: 44" clear (EXISTING)

Section 705.8.1, Allowable Area of Openings:

Buildings whose exterior bearing walls, exterior nonbearing walls and exterior primary structural frame are not required to be fire resistance rated shall be permitted to have

unlimited unprotected openings.

Plumbing, Table 403.1 <u>Plumbing Fixtures:</u> Business Occupancy:

Water Closets: 1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50.

6 required, 8 provided (4 male, 4 female)

1 per 40 for the first 80 \$ 1 per 80 for the

4 required, 8 provided (4 male, 4 female)

Drinking Fountains: 1 per 100.

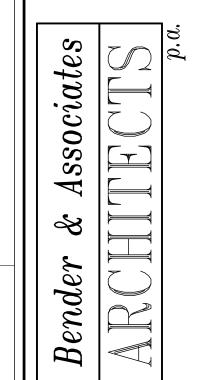
2 required, 2 provided (1 barrier free)



FIRE SPRINKLER HEAD

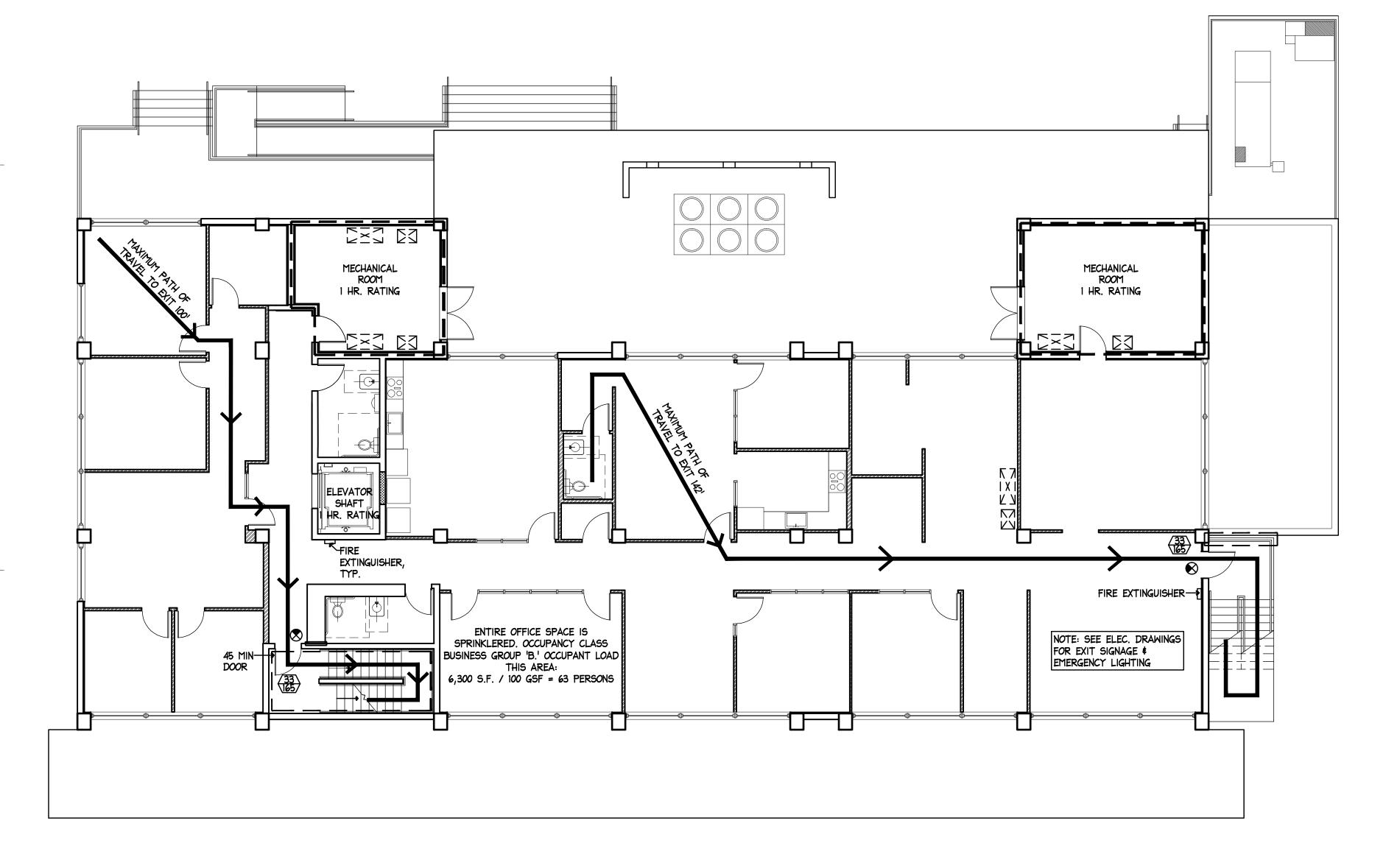












SECOND FLOOR LIFE SAFETY PLAN A13.1 SCALE: 1/8"=1'-0"



KEYS ENERGY SERVICES - T&D BUILDING LIFE SAFETY CODE CALCULATIONS FLORIDA BUILDING CODE 2010, BUILDING

2010 BUILDING CODE SECTION Occupancy Classification:

Section 304 Offices: Group 'B' Business

Building Area:

7,800 s.f. 6,300 s.f. 1st Floor: 2nd Floor: 3rd Floor: 5,400 s.f.
Total: 19,500 s.f.

<u>Construction Type:</u> Type II-B construction, sprinklered.

Primary structural frame: 0 hours.

Exterior / Interior Bearing walls: 0 hours. Exterior Non-bearing walls: 0 hours. Interior Non-bearing walls: 0 hours. Floor construction / Secondary members: 0 hours. Roof construction / secondary members: 0 hours.

Allowable Building Heights \$ Areas:

(Automatic sprinkler system increase per Section 504.2)

Group # Stories Allowed: Area: Bldg. Heights Areas: Bldg. Heig Area: Bldg. Height: 19,000sf/floor 75'

Table 1004.1.1 Occupancy Loads:

1st Floor: B Business
7,800 s.f. / 100 gross = 78 persons
2nd floor: B Business
6,300 s.f. / 100 gross = 63 persons
3rd Floor: B Business 5,400 s.f. / 100 gross = 54 persons

Table 707.3.9 Fire Resistant Separations: <u>Separation:</u> 2 hours. <u>Group:</u> B- Business

Table 1021.1 Number of Exits Required:

1st floor: 2 2nd floor: 2 3rd floor: 2

Exit Access Travel Distance: Occupancy Group: B-Business <u>Travel Distance:</u> 135' (300' allowable) OK.

Section 1005.1 <u>Egress Width:</u>
Existing Building:

1st Floor: 80 persons $x \cdot 3^{"} = 24^{"}$: (36" provided)
2nd Floor: 64 persons $x \cdot 3^{"} = 19.2^{"}$ (36" provided)
3rd Floor: 56 persons $x \cdot 3^{"} = 16.8^{"}$ (36" provided)

Section 1009.1 Minimum Stair Width: 44" clear (EXISTING)

Section 705.8.1, Allowable Area of Openings: Buildings whose exterior bearing walls, exterior nonbearing walls and exterior primary structural frame are not required to be fire resistance rated shall be permitted to have

unlimited unprotected openings.

Plumbing, Table 403.1 <u>Plumbing Fixtures:</u> Business Occupancy:

Water Closets: 1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50.

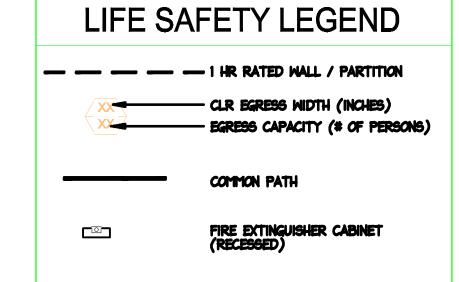
6 required, 8 provided (4 male, 4 female)

1 per 40 for the first 80 \$ 1 per 80 for the

4 required, 8 provided (4 male, 4 female)

Drinking Fountains: 1 per 100.

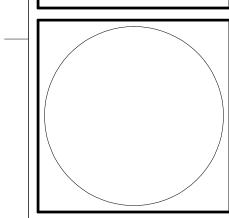
2 required, 2 provided (1 barrier free)



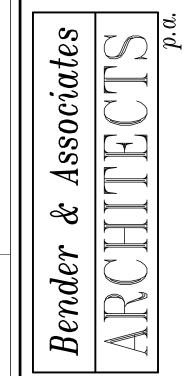
FIRE ALARM HORN / VISUAL ALARM FIRE PULL STATION SPEAKER (PUBLIC ANNOUNCEMENT) STROBE LIGHT SMOKE DETECTOR HEAT DETECTOR EMERGENCY EXIT EMERGENCY LIGHTING FIXTURE

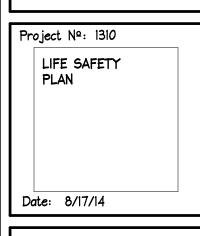
FIRE SPRINKLER HEAD





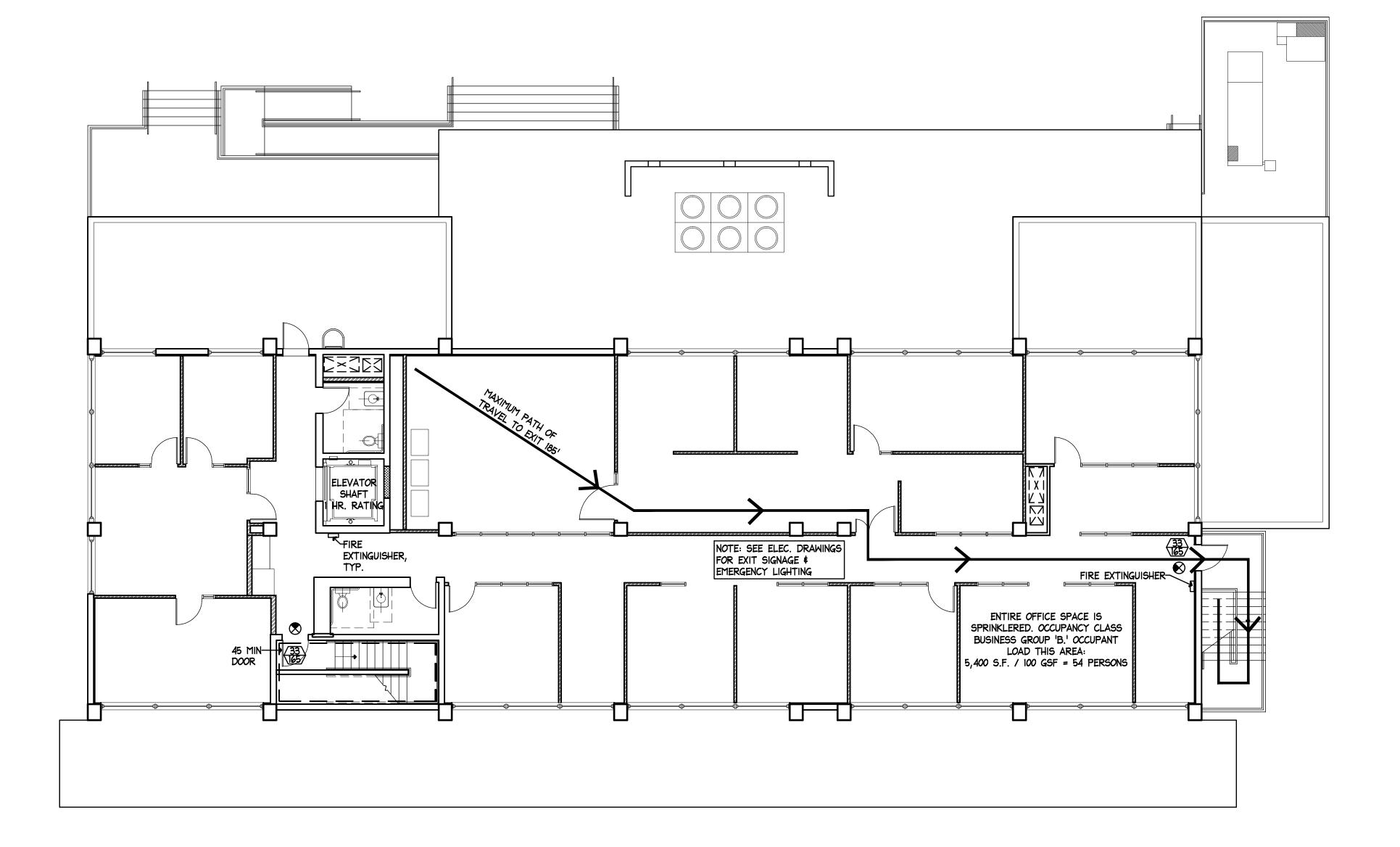
410 Angela Street Key West, Florida 33040 Telephone (305) 296–1347 Facsimilie (305) 296–2727 Florida License AAC002022





A13.2









2010 BUILDING
CODE SECTION Occupancy Classification:

Section 304 Offices: Group 'B' Business

Building Area:

FLORIDA BUILDING CODE 2010, BUILDING

7,800 s.f. 6,300 s.f. 1st Floor: 2nd Floor: 3rd Floor: 5,400 s.f.
Total: 19,500 s.f.

<u>Construction Type:</u> Type II-B construction, sprinklered.

Primary structural frame: 0 hours.

Exterior / Interior Bearing walls: 0 hours. Exterior Non-bearing walls: 0 hours. Interior Non-bearing walls: 0 hours. Floor construction / Secondary members: 0 hours. Roof construction / secondary members: 0 hours.

Allowable Building Heights \$ Areas:

(Automatic sprinkler system increase per Section 504.2)

Group # Stories Allowed: Area: Bldg. Heights Areas: Bldg. Heig Table 503 Area: Bldg. Height: 19,000sf/floor 75'

Table 1004.1.1 Occupancy Loads:

1st Floor: B Business
7,800 s.f. / 100 gross = 78 persons
2nd floor: B Business
6,300 s.f. / 100 gross = 63 persons
3rd Floor: B Business 5,400 s.f. / 100 gross = 54 persons

Table 707.3.9 Fire Resistant Separations: <u>Separation:</u> 2 hours. <u>Group:</u> B- Busin**e**ss

Table 1021.1 <u>Number of Exits Required</u>:

1st floor: 2 2nd floor: 2 3rd floor: 2

Exit Access Travel Distance: Occupancy Group: B-Business <u>Travel Distance:</u> 135' (300' allowable) OK.

Section 1005.1 <u>Egress Width:</u>
Existing Building:

1st Floor: 80 persons $x \cdot 3^{"} = 24^{"}$: (36" provided)
2nd Floor: 64 persons $x \cdot 3^{"} = 19.2^{"}$ (36" provided)
3rd Floor: 56 persons $x \cdot 3^{"} = 16.8^{"}$ (36" provided)

Section 1009.1 Minimum Stair Width: 44" clear (EXISTING)

Section 705.8.1, Allowable Area of Openings: Buildings whose exterior bearing walls, exterior nonbearing walls and exterior primary structural frame are not required to be fire resistance rated shall be permitted to have

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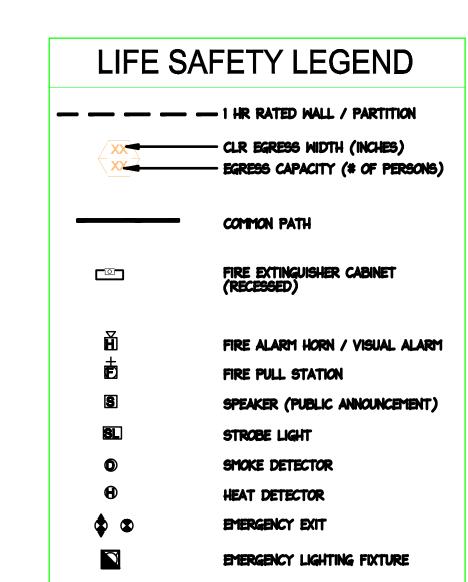
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4 required, 8 provided (4 male, 4 female)

Drinking Fountains: 1 per 100.

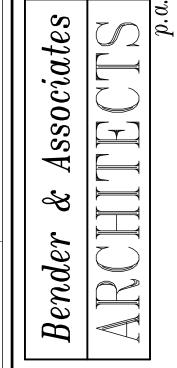
2 required, 2 provided (1 barrier free)

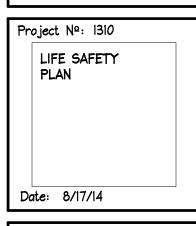


FIRE SPRINKLER HEAD







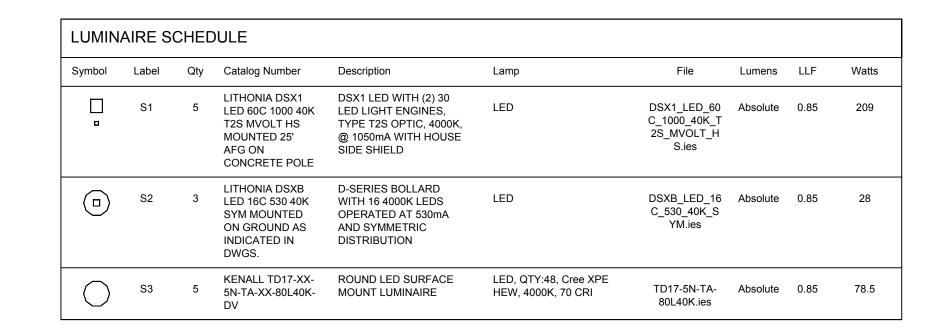




4800 SOUTH WEST 74 COURT

ENGINEERS | CARLOS GARCIA, P.E. (ELECTRICAL) FL REG. #0014104

MIAMI, FLORIDA 33165 (305) 270-9935 Fax (305)666-5891 □ ENRIQUE J. SUAREZ, P.E. (MECHANICAL) FL REG. #0015794



S	TATISTICS					
De	escription	Symbol	Avg	Max	Min	Max/Min
PA	ARKING AREA (Z=0')	+	3.5 fc	6.0 fc	0.5 fc	12.0:1
UN	NDER CANOPY (Z=0')	+	6.9 fc	12.7 fc	3.2 fc	4.0:1

SURFACE SCH	EDULE					
	Reflec	tances		Normal		
Name	Front	Back	X	Υ	Z	Area (ft²)
BLDG	30%	30%				
CANOPY	40%	40%	0.0	-1.0	0.0	0.65
CANOPY	40%	40%	0.0	1.0	0.0	0.8
CANOPY	40%	40%	1.0	0.0	0.0	2.0
CANOPY	40%	40%	1.0	0.0	0.0	2.0
CANOPY	40%	40%	0.0	1.0	0.0	27.05
DUMPSTER	0%	0%				

	Location								Aim	
No.	Label	X	Υ	Z	МН	Orientation	Tilt	X	Υ	Z
	S1	590.9	-2565.6	25.0	25.0	0.0	0.0	590.9	-2564.4	0.0
2	S1	664.0	-2565.3	25.0	25.0	0.0	0.0	664.0	-2564.1	0.0
3	S1	676.4	-2641.0	25.0	25.0	90.0	0.0	677.6	-2641.0	0.0
4	S1	590.9	-2509.2	25.0	25.0	180.0	0.0	590.9	-2510.4	0.0
5	S1	663.7	-2506.7	25.0	25.0	180.0	0.0	663.7	-2507.9	0.0
6	S2	538.7	-2673.4	3.0	3.0	0.0	0.0	538.7	-2673.4	0.0
7	S2	561.0	-2673.4	3.0	3.0	0.0	0.0	561.0	-2673.4	0.0
8	S3	536.0	-2659.0	11.0	11.0	0.0	0.0	536.0	-2659.0	0.0
9	S3	566.0	-2659.0	11.0	11.0	0.0	0.0	566.0	-2659.0	0.0
10	S3	596.0	-2659.0	11.0	11.0	0.0	0.0	596.0	-2659.0	0.0
11	S3	626.0	-2659.0	11.0	11.0	0.0	0.0	626.0	-2659.0	0.0
12	S3	656.0	-2659.0	11.0	11.0	0.0	0.0	656.0	-2659.0	0.0
13	S2	721.0	-2669.4	3.0	3.0	0.0	0.0	721.0	-2669.4	0.0

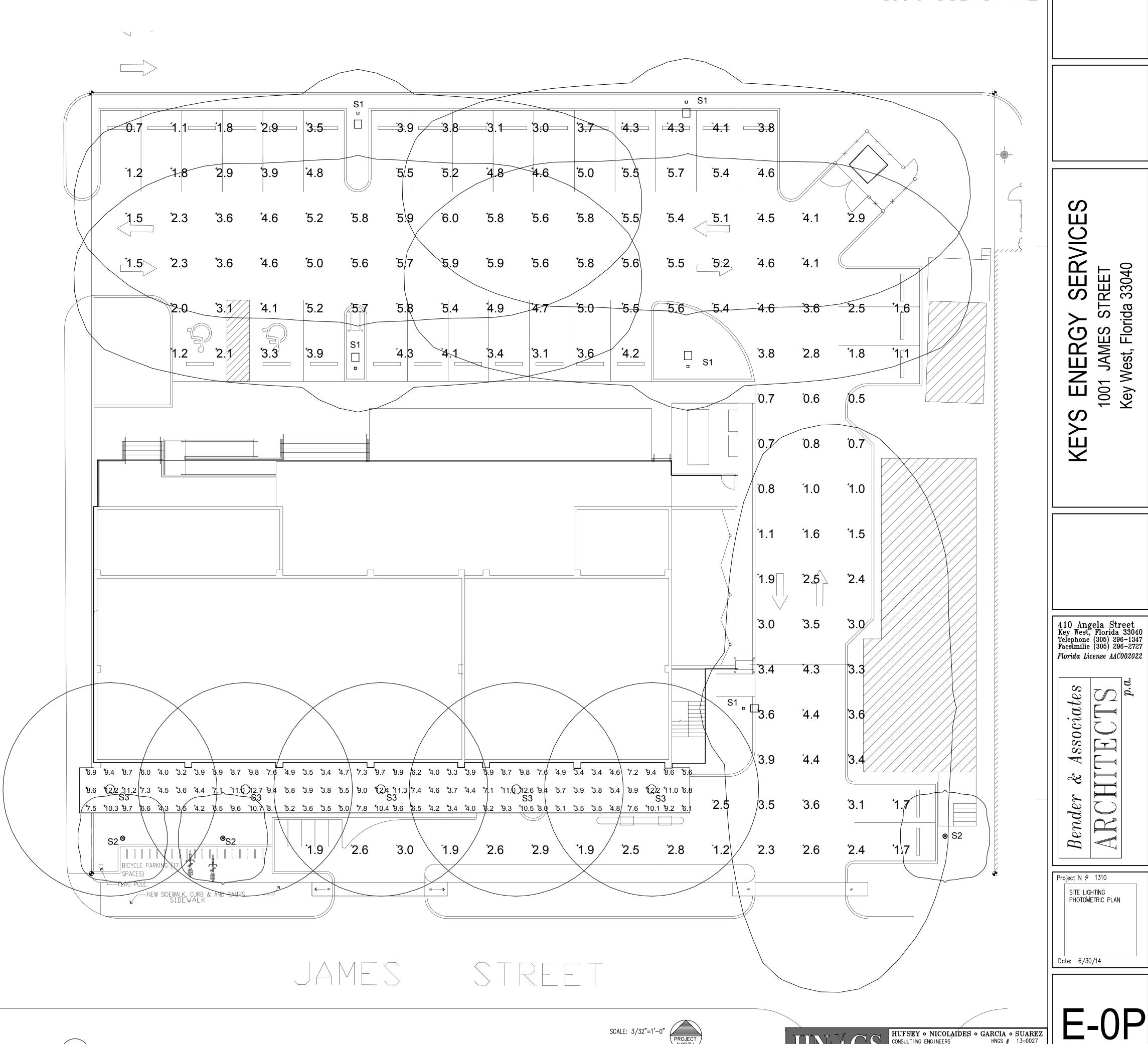
NOTES

1. CALCULATIONS HAVE BEEN PERFORMED ACCORDING TO IES STANDARDS AND PRACTICE. SOME DIFFERENCES BETWEEN MEASURED VALUES AND CALCULATED RESULTS MAY OCCUR DUE TO TOLERANCES IN CALCULATION METHODS, TESTING PROCEDURES, COMPONENT PERFORMANCES, MEASURED CONDITIONS SUCH AS TECHNICAL AND FIELD VOLTAGES AND TEMPERATURE VARIATIONS. INPUT DATA SUCH AS ROOM DIMENSIONS, REFLECTANCES, FURNITURE, LIGHT LOSS FACTOR, FURNITURE, ARCHITECTURAL ELEMENTS AND FOLIAGE SIGNIFICANTLY AFFECT THE LIGHTING CALCULATIONS. IF THE REAL ENVIRONMENT DO NOT MATCH INPUT DATA DIFFERENCES WILL OCCUR BETWEEN MEASURED AND CALCULATED VALUES.

2. CONCRETE POLES ARE TO BE 34' OVERALL LENGTH AND 25' ABOVE GROUND OR AS INDICATED BY BORING TEST RESULTS -SUPPLIED BY OTHERS.

3. WIND LOAD CALCULATIONS, TO MEET SOUTH FLORIDA WIND LOAD REQUIREMENTS, MUST BE PREPARED AND SUBMITTED AS PART OF THE SUBMITTAL PROCESS. SAID CALCULATIONS MUST BE SIGNED AND SEALED BY FLORIDA REGISTERED ENGINEER.

4. POINT-BY-POINT CALCULATIONS PROGRAM USED - VISUAL SERIAL # 5101 5260 4589 0193, VERSION 2.06.0211



MILLENIUM EDGE™

MR13/MR17 SERIES – FLAT FACE LOW PROFILE

PRODUCT FEATURES:

- » Surface mount ceiling or wall; 13"Dia.×3"D (MR13FFL), 17"Dia.×4"D (MR17FFL)
- » Peace of Mind Guarantee® against breakage available
- » Dust and water protected to IP64 standards
- » Full cut-off for IDA-Approved™ Dark Sky installations
- » ADA compliant



PROJECT INFORMATION							
Job Name							
Fixture Type							
Catalog Number							
Approved by							

SPECIFICATIONS:

BASEPLATE: Marine grade die-cast aluminum. Integral heat sinks. Baseplate flange interlocks and wraps around lens base producing maximum moisture deflection and resistance to prying. Baseplate provided with four-point mounting holes, one wireway hole and temporary junction box mounting breakouts. Standard black or white exterior TGIC polyester powder coat — 5-step pre-

REFLECTOR: Full reflector/wire cover - 92% reflectivity.

LENS: UV-stabilized, high impact resistant, virgin injection molded polycarbonate. Close tolerance push/turn/lock-in-place mating of injection molded lens and lens base. Lens and lens base secured with one concealed captive Torx® with center pin fastener.

LENS BASE: Lens base shields lamp from viewing angles. High impact resistant, injection molded opaque black, bronze or white polycarbonate.

GASKETING: Die-cut, closed cell neoprene self adhesive gasket seals baseplate to mounting surface. Closed cell, silicone "O" ring gaskets positioned and friction secured in gasket channels of lens base, baseplate and optional surface adapter.

HARDWARE: One stainless steel Torx® with center pin fastener.

ELECTRICAL: Fluorescent magnetic ballasts – 120V/277V power factor corrected, fluorescent electronic 120/277/347 and dual voltage ballasts high power factor (<10%THD). Replaceable high-brightness ANSI 3500K (80 CRI min.), 4000K (70 CRI min.), or 5000K

(70 CRI min.) white LED array. 120-277VAC, high power factor electronic driver. See options for higher CRI lamp availability

WARRANTY: One (1) year warranty against defects in materials and workmanship.

Five (5) year warranty on LED lamps and driver for defects resulting in a fixture lumen depreciation of 30% or greater.

LISTINGS: Luminaire is certified to UL Standards by either Underwriters Laboratory or Intertek Testing Laboratory for wet location. (listing includes Emergency Battery Pack "El" option). UL certified IP64 per IEC 60598. IESNA-designated full cut-off. ÍDA-Approved™ Dark-Sky Friendly Fixture. All Kenall SSL Luminaires are tested to the IESNA LM-79-08 standard requiring spectroradiometric measurements for CRI and CCT as well as goniophotometric measurements for lighting distributions and total luminous flux.















ORDERING INFORMATION (Ex: MR13FFD-PP-DB-20L50K-1-DCC-DV)

Model Lens Type Finish Voltage Options Accessories Lamp Type Lamp Qty Lamp Type PP

Model

MR13FFL 13"Dia. MR17FFL 17"Dia.

Lens Type

Pearlescent Polycarbonate PP

Finish

MB Matte Black MW Matte White Dark Bronze DR

Lamp Type (Qty/Ballast/Volt./Starting Temp)

20 Watt 3500K LED (1/120-277V/-22°F) MR13FFL only 20I 35K 20 Watt 4000K LED (1/120-277V/-22°F) MR13FFL only 20 Watt 5000K LED (1/120-277V/-22°F) MR13FFL only 20L40K 20150K 40 Watt 3500K LED (1/120-277V/-22°F) MR17FFL only 40L35K 40 Watt 4000K LED (1/120-277V/-22°F) MR17FFL only 40L40K 40150K 40 Watt 5000K LED (1/120-277V/-22°F) MR17FFL only 40L57K 40 Watt 5700K LED (1/120-277V/-22°F) MR17FFL only

Lamp Type (Qty/Ballast/Voltage/Starting Temp) 7 Watt Twin (1,2/MB/120,277/0°F)

13 ₹ 13 Watt Twin (1,2/MB/120,32°F) (277V requires a diecast surface adapter) 130 13 Watt Quad (1,2/RS/120,277,347/0°F) (MR17FFL only)

18 Watt Quad (1,2/RS/120,277,347/0°F) 18Q (MR17FFL only)

26 Watt Quad (1,2/RS/120,277,347/0°F) 26Q (MR17FFL only)

Lamp Quantity

One Lamp 2 Two Lamps

Driver Type (LED only)

DCC Dimming Constant Current SCC Standard Constant Current

Voltage

120 120 Volts 277 Volts 277 347▲ 347 Volts

DV▲ 120-277 Volts, electronic ballasts & LED driver only

Options

LEL

One-Lamp WL Emergency Pack (32°F) with Die-Cast Surface Adapter (SA)- Non ADA

One-Lamp WL Emergency Pack (32°F) with Recessed Backbox - ADA Compliant (n/a with 347V & LED)

LED Emergency Battery Backup with Die-cast Surface Adapter (SA)- Non ADA Photo Control – Shielded Button Type

(Requires Surface Adapter) Adapter (SA) – Non ADA (120 or 277V only)

FS Single Fuse & Holder NAT Natatorium Environment Option Minimum 80 CRI (4000K LED only) R80

RMP± Retrofit Mounting Plate (See Tech Sheet) Wiremold 500 Ready (See Tech Sheet) WMR‡

Accessories

Die-Cast Surface Adapter 9500 Torx® Screwdriver

- * Max. 14 total system watts for MR13FFL or 36 total system watts for MR17FFL
- ▼ 277 volts surface adapter required
- ‡ n/a with Surface Adapter
- ▲ n/a with BPC

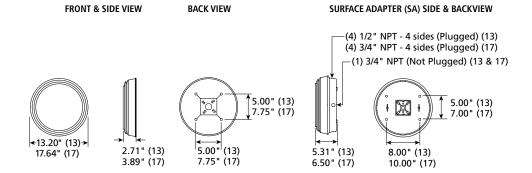




MILLENIUM EDGE™

MR13/MR17 SERIES - FLAT FACE LOW PROFILE HOUSING

DIMENSIONAL DATA







F: 847-360-1781

MILLENIUM FINITE™

FN SERIES – LOW PROFILE

PRODUCT FEATURES:

- » Surface wall mount; 9" & 15'
- » Full cutoff Type II, III, IV or IVN optic patterns
- » Dark-Sky friendly
- » Designlights Consortium listed (DLC)
- » Peace of Mind Guarantee®



PROJECT INFORMATION							
Job Name							
Fixture Type							
Catalog Number							
Approved by							

SPECIFICATIONS

HOUSING: High-impact resistant, UV-stabilized injection molded polycarbonate. Marine-grade die-cast aluminum ballast/driver housing.

DOOR: High-impact resistant, UV-stabilized injection molded polycarbonate with detachable hinge. Secured to housing with four (4) captive, recessed Torx® (or optional Phillips head) stainless steel screws. Lens sealed with closed-cell silicone gasket and secured to door frame with heavy gauge stainless steel brackets.

GASKETING: Closed cell, silicone "O"ring gasket seals joint between polycarbonate housing and die-cast aluminum ballast housing and joint between polycarbonate housing and polycarbonate lens frame assembly. Thick gauge, die-cut, closed cell neoprene with self-adhesive gasket seals joint between housing and mounting surface or accessory surface conduit adapter

ELECTRICAL: LED: Replaceable high-brightness ANSI 4000K (65 CRI min.), 5000K (65 CRI min.), and 5700K (70 CRI min.) white LED array. See Options for higher CRI lamp availability. 120-277VAC High Power Factor Electronic Dimming Constant Current driver. Fluorescent electronic 120/277/347 and dual voltage ballasts high power factor (<10% THD), HID ballasts high power factor. Metal halide lamps utilize pulse start technology. Shock absorbing, medium base lamp sockets provided for HID lamps. See Lamp Type for electronic halide ballast option.

INSTALLATION: Fixture is factory pre-wired and includes gasketed, 16-gauge stainless steel quick mounting plate. Once four-point mounted to wall (required for Peace of Mind Guarantee®) or accessory surface conduit adapter, allows quick mounting with hook-and-lock mechanism. Quick mounting plate bolts to wall (fasteners by other), fixture attaches to mounting plate with two (2) captive Torx® (or optional Phillips head) screws, which are concealed but accessible from bottom.

SURFACE CONDUIT ADAPTER (ACCESSORY): Marine-grade die-cast aluminum construction includes die-cut gaskets and two 3/4" threaded connection ports. Once four-point mounted to wall (required for Peace of Mind Guarantee®) allows same quick mounting (hook-and-lock) capability as described in the Installation section above.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric information, go to www.kenall.com.

WARRANTY: One (1) year warranty against defects in materials and workmanship. Five (5) year warranty on LED lamps and driver for defects resulting in a fixture lumen depreciation of 30% or greater.

LISTINGS: Luminaire is certified to UL Standards by either Underwriters Laboratory or Intertek Testing Laboratory for wet location. UL certified IP64 per IEC 60598. IESNA-designated full cut-off. IDA-Approved[™] Dark-Sky Friendly Fixture. Product listed on Designlights Consortium QPL.













ORDERING INFORMATION (Ex: FN9L-4-7-MB-26L50K-DV-FS)

Optic System Lens Type Options Model Finish Lamp Type Lamp Otv Voltage Accessories

Model

9" Full Cutoff Low Profile FN9I FN15L 15" Full Cutoff Low Profile

Optic System

Type II Type III (LED only) Type IV (LED only) 4

(Available with one lamp only on the 15")

4N Type IV Narrow (LED only)

Lens Type

.187" Clear Polycarbonate (n/a with two lamps or HID)

.250" Clear Tempered Glass (STD w/HID)

Finish

Dark Bronze DB Matte Black MB MW Matte White

Custom Color (Consult factory)

Lamp Type (Qty/Ballast/Volt/Starting Temp)

26L40K 26 Watt 4000K LED 26 Watt 5000K LED 26L50K 26 Watt 5700K LED 26L57K

18 Watt Quad (2/RS/120/277,347/0°F) 180 26P 26 Watt PLT (1,2/RS/120/277,347/0°F) 32P 32 Watt PLT (1/RS/120/277,347/0°F)

15'

26L40K 26 Watt 4000K LED 26L50K 26 Watt 5000K LED 26L57K 26 Watt 5700K LED 50 Watt 4000K LED 50L40K 50L50K 50 Watt 5000K LED 50L57K 50 Watt 5700K LED 80L40K 80 Watt 4000K LED 80L50K 80 Watt 5000K LED 80L57K 80 Watt 5700K LED

26 Watt Quad (1,2/RS/120,277,347/0°F) 26Q 32P 32 Watt PLT (1,2/RS/120,277,347/0°F) 42 Watt PLT (1,2/RS/120,277,347/0°F) 42P

50 Watt MH (1/HPF/120,277,347/-20°F) 50M 50 Watt HPS (1/HPF/120,277,347/-40°F) **50S** 70M 70 Watt MH (1/HPF/120,277,347/-20°F) **70ME** 70 Watt MH (1/EB/120,277/-20°F) 70 Watt HPS (1/HPF/120,277,347/-40°F) Lamp Quantity (See Lamp Type)

One Lamp 24 Two Lamps

Voltage

120 Volts 120 277 277 Volts 347 Volts 347

D۷ 120-277 Volts (fluorescent or LED only)

Ontions

Integral Emergency Battery Backup (Available with FN15L, 26 Watt LED only) LEL 2C

Two Circuit Wiring (2 Lamp Quantity only) (n/a in LED)

Single Fuse & Holder FS РΗ Phillips Head Fasteners

Hot/Cold Quartz Restrike (15" only) (HID only) ORC

Two Quartz sockets (max. 50W ea.) (15" only) (HID only)

Accessories

50QL 50 Watt DC Bayonet Base Quartz Lamp (15" only)

9500 Torx® Screwdriver Die-Cast Surface Adapter

* n/a with LED Option





MILLENIUM FINITE™

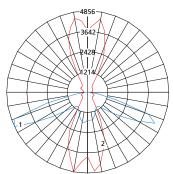
FN SERIES – Technical Data

PERFORMANCE

	Initial Delivered Lumens (lm)								
Model	Lamp Type	Type 2	Type 3	Type 4	Type 4N	Efficacy (Im/W)	Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (hrs)
	26L40K	1699	1741	1695	1783	58-61	29	350	60,000
FN9L	26L50K	1811	1855	1806	1900	62-66	29	350	60,000
	26L57K	1936	1983	1931	2031	67-70	29	350	60,000
	26L40K	1769	1907	1842	1788	61-66	29	350	60,000
	26L50K	1884	2032	1963	1905	65-70	29	350	60,000
	26L57K	2015	2172	2098	2037	69-75	29	350	60,000
	50L40K	3685	3618	3705	3556	65-67	55	350	60,000
FN15L	50L50K	3927	3856	3948	3789	69-72	55	350	60,000
	50L57K	4199	4122	4221	4057	74-77	55	350	60,000
	80L40K	4653	4569	4679	4490	58-61	77	525	50,000
	80L50K	4958	4868	4985	4784	62-65	77	525	50,000
	80L57K	5301	5205	5330	5115	66-69	77	525	50,000

Information above was tested with the Clear Polycarbonate lens. Subject to change without notice. Visit www.kenall.com for IES files and additional information.

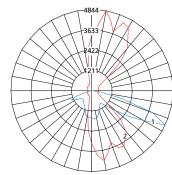
Model: FN15L-2-7-xx-80L50K-DV



 $\label{eq:maximum Candela} \mbox{Maximum Candela} = 4856 \mbox{ Located At Horizontal Angle} = 260, \mbox{Vertical Angle} = 65$

- 1 Vertical Plane Through Horizontal Angles (260-80) (Through Max. Cd.)
 2 Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

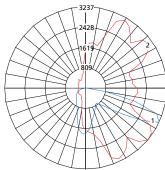
Model: FN15L-3-7-xx-80L50K-DV



 $\label{eq:maximum Candela} \mbox{Maximum Candela} = 4844 \mbox{ Located At Horizontal Angle} = 80, \mbox{Vertical Angle} = 65$

- 1 Vertical Plane Through Horizontal Angles (80-260) (Through Max. Cd.)
 2 Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

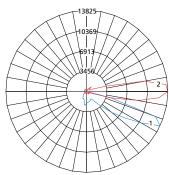
Model: FN15L-4-7-xx-80L50K-DV



Maximum Candela = 3237 Located At Horizontal Angle = 320, Vertical Angle = 65

- 1 Vertical Plane Through Horizontal Angles (320-140) (Through Max. Cd.)
- 2 Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

Model: FN15L-4N-7-xx-80L50K-DV



Maximum Candela = 13825 Located At Horizontal Angle = 0, Vertical Angle = 65

- 1 Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
- 2 Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)





P: 800-4-Kenall

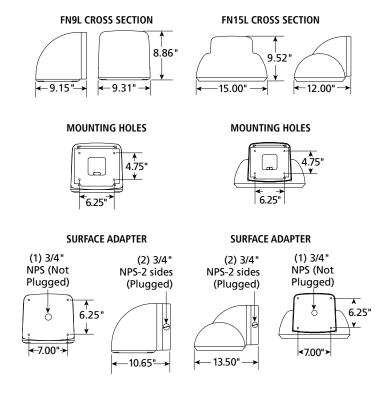
1020 Lakeside Drive Gurnee, Illinois 60031

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MILLENIUM FINITE™

FN SERIES – Technical Data

DIMENSIONAL DATA





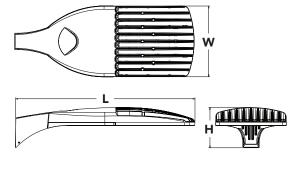
F: 847-360-1781



Specifications

1.2 ft² EPA: 33" Length: (83.8 cm) 13" Width: (33.0 cm) 7-1/2" Height:

Weight 27 lbs (max): (12.2 kg)



Catalog Numbe

Notes

Туре

Introduction

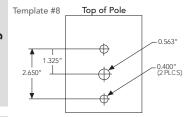
The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing 100 -400W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

DSX1 LED									
Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting	Control options	Other options	Finish (required)
DSX1 LED	Forward optics 30C 30 LEDs (one engine) 40C 40 LEDs (two engines) 60C 60 LEDs (two engines) Rotated optics¹ 60C 60 LEDs (two engines)	530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000 K (80 CRI min.) 40K 4000 K (70 CRI min.) 50K 5000 K (70 CRI) AMBPC Amber phosphor converted ²	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium T5M Forward throw medium T5VS Type V very short T5S Type V short T5M Type V medium T5W Type V wide	MVOLT ³ 120 ³ 208 ³ 240 ³ 277 ³ 347 ⁴ 480 ⁴	Shipped included SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor 5 RPUMBA Round pole universal mounting adaptor 5 KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) 6	Shipped installed PER NEMA twist-lock receptacle only (no controls) ⁷ DMG 0-10V dimming driver (no controls) ⁸ DCR Dimmable and controllable via ROAM® (no controls) ⁹ DS Dual switching ^{10.11} PIR Motion sensor, 8-15' mounting height ¹² PIRH Motion sensor, 15-30' mounting height ¹² BL30 Bi-level switched dimming, 30% ^{11,13} BL50 Bi-level switched dimming, 50% ^{11,13}	Shipped installed HS House-side shield 14 WTB Utility terminal block 15 SF Single fuse (120, 277, 347V) 16 DF Double fuse (208, 240, 480V) 16 L90 Left rotated optics 17 R90 Right rotated optics 17	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white



Accessories

DLL127F 1.5 JU Photocell - SSL twist-lock (120-277V) 18 DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V) 18 DLL480F 1.5 CUL JU Photocell - SSL twist-lock (480V) 18 SCU Shorting cap 18 DSX1HS 30C U House-side shield for 30 LED unit DSX1HS 40C II House-side shield for 40 LFD unit DSX1HS 60C U House-side shield for 60 LED unit PUMBA DDBXD U* Square and round pole universal mount ing bracket adaptor (specify finish) Mast arm mounting bracket adaptor (specify finish) ⁶ KMA8 DDBXD U

For more control options, visit DTL and ROAM online

DSX1 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS	Single unit	DM29AS	2 at 90° *
DM28AS	2 at 180°	DM39AS	3 at 90° *
DM49AS	4 at 90° *	DM32AS	3 at 120° **

Fxample: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.

> *Round pole top must be 3.25" O.D. minimum. **For round pole mounting (RPA) only.

Tenon Mounting Slipfitter**

	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	N/A	N/A	N/A	N/A
2-7/8"	AST25-190	AST25-280	N/A	AST25-320	N/A	N/A
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

- Rotated optics only available with 60C.
- AMBPC only available with 530mA or 700mA.
- MWOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options). Not available with single board, 530mA product (30C 530, or 60C 530 DS). Not available with DCR, BL30 or BL50.
- available as a separate combination accessory: PUMBA (finish) U. Requires "SPA" mounting option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included). Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option.

- DMG option for 347v or 480v requires 1000mA Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347 or 480V. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net. N/A with BL30, BL50, DS, PIR or PIRH.
- Requires 40C or 60C. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. N/A with PER, DCR, WTB, PIR, or PIRH.
- Requires an additional switched circuit.
- -ODP control; PIRH specifies the Motion Sensor Guide for details. SensorSwitch SBGR-6-ODP control; see Motion Sensor C Dimming driver standard. Not available with DS or DCR.
- Dimming driver standard. MVOLT only. Not available with DCR.
- Also available as a separate accessory; see Accessories information

- Also available as a separate accessory, see Accessories information.
 WTB not available with DS.
 Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
 Available with 60 LEDs (60C option) only.
 Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Contro



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/-10%. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current	System	Dist.	(30	000 K. 8	30K 30 minii	num C		(40	000 K. 7	40K '0 mini	mum Cl		50K (5000 K, 70 CRI)				
	(mA)	Watts	Type	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW	Lumens	В	U	G	LPW
			T1S	5,290	1	0	1	78	6,524	2	0	2	96	7,053	2	0	2	104
			T2S	5,540	1	0	1	81	6,833	2	0	2	100	7,387	2	0	2	109
			T2M	5,360	1	0	2	79	6,611	2	0	2	97	7,147	2	0	2	105
			T3S	5,479	1	0	1	81	6,757	1	0	2	99	7,305	2	0	2	107
			T3M	5,452	1	0	2	80	6,724	2	0	2	99	7,269	2	0	2	107
	700 mA	68 W	T4M	5,461	1	0	2	80	6,736	2	0	2	99	7,282	2	0	2	107
			TFTM	5,378	1	0	2	79	6,633	1	0	2	98	7,171	1	0	2	105
			T5VS	5,708	2	0	0	84	7,040	3	0	0	104	7,611	3	0	1	112
			T5S	5,639	2	0	0	83	6,955	2	0	0	102	7,519	3	0	0	111
30C			T5M	5,710	3	0	1	84	7,042	3	0	1	104	7,613	3	0	2	112
			T5W	5,551	3	0	1	82	6,847	3	0	2	101	7,401	3	0	2	109
(30 LEDs)			T1S	7,229	2	0	2	69	9,168	2	0	2	87	9,874	2	0	2	94
(0 0 1111)			T2S	7,572	2	0	2	72	9,603	2	0	2	91	10,342	2	0	2	98
			T2M	7,325	2	0	2	70	9,291	2	0	2	88	10,005	2	0	3	95
			T3S	7,488	2	0	2	71 71	9,496	2	0	2	90	10,227	2	0	2	97
	1000 mA	105 W	T3M T4M	7,451 7,464	2	0	2	71	9,450 9,467	2	0	2	90	10,177	2	0	2	97
	1000111A	103 W	TFTM	7,404	1	0	2	70	9,323	2	0	2	89	10,193	2	0	3	96
			T5VS	7,801	3	0	1	74	9,894	3	0	1	94	10,655	3	0	1	101
			T5S	7,803	3	0	2	74	9,774	3	0	1	93	10,526	3	0	1	100
			T5M	7,707	3	0	0	73	9,897	3	0	2	94	10,658	4	0	2	102
			T5W	7,586	3	0	2	72	9,621	4	0	2	92	10,363	4	0	2	99
			T1S	6,876	2	0	2	77	8,639	2	0	2	97	9,345	2	0	2	105
			T2S	7,202	2	0	2	81	9,049	2	0	2	102	9,788	2	0	2	110
			T2M	6,968	2	0	2	78	8,755	2	0	2	98	9,469	2	0	3	106
			T3S	7,122	2	0	2	80	8,948	2	0	2	101	9,679	2	0	2	109
			T3M	7,088	2	0	2	80	8,905	2	0	2	100	9,632	2	0	2	108
	700 mA	89 W	T4M	7,100	2	0	2	80	8,920	2	0	2	100	9,649	2	0	2	108
			TFTM	6,992	1	0	2	79	8,785	2	0	2	99	9,502	2	0	2	107
	400		T5VS	7,421	3	0	0	83	9,323	3	0	1	105	10,085	3	0	1	113
			T5S	7,331	2	0	0	82	9,210	3	0	1	103	9,962	3	0	1	112
40C			T5M	7,423	3	0	2	83	9,326	3	0	2	105	10,087	4	0	2	113
100			T5W	7,216	3	0	2	81	9,066	4	0	2	102	9,807	4	0	2	110
(40 LED=)			T1S	9,521	2	0	2	69	11,970	2	0	2	87	12,871	3	3	0	93
(40 LEDs)			T2S	9,972	2	0	2	72	12,558	3	0	3	91	13,481	3	0	3	98
			T2M	9,648	2	0	3	70	12,149	3	0	3	88	13,043	3	0	3	95
			T3S	9,862	2	0	2	71	12,418	2	0	2	90	13,331	2	0	2	97
			T3M	9,814	2	0	2	71	12,358	3	0	3	90	13,267	3	0	3	96
	1000 mA	138 W	T4M	9,831	2	0	2	71	12,379	2	0	3	90	13,290	2	0	3	96
			TFTM	9,681	2	0	2	70	12,191	2	0	3	88	13,087	2	0	3	95
			T5VS	10,275	3	0	1	74	12,937	3	0	1	94	13,890	4	0	1	101
			T5S	10,150	3	0	1	74	12,782	3	0	1	93	13,721	3	0	1	99
			T5M	10,278	4	0	2	74	12,942	4	0	2	94	13,894	4	0	2	101
			T5W	9,991	4	0	2	72	12,582	4	0	2	91	13,507	4	0	2	98
			T1S	10,226	2	0	2	78	12,871	3	0	3	98	13,929	3	0	3	106
			T2S	10,711	2	-	2	82	13,481	3	0	3	103	14,589	3	0	3	111
			T2M T3S	10,363	2	0	2	79 81	13,043	2	0	2	100 102	14,115 14,427	3	0	3	108
			T3M	10,592	2	0	2	80	13,331	3	0	3	102	14,427	3	0	3	110
	700 mA	131 W	T4M	10,559	2	0	2	81	13,207	2	0	3	101	14,382	3	0	3	110
	700 IIIA	1317	TFTM	10,339	2	0	3	79	13,087	2	0	3	100	14,163	2	0	3	108
			T5VS	11,036	3	0	1	84	13,890	4	0	4	106	15,032	4	0	1	115
			T5S	10,902	3	0	1	83	13,721	3	0	1	105	14,849	4	0	1	113
			T5M	11,039	4	0	2	84	13,894	4	0	2	106	15,036	4	0	2	115
60C			T5W	10,732	4	0	2	82	13,507	4	0	2	103	14,617	4	0	2	112
			T1S	14,017	3	0	3	67	17,632	3	0	3	84	19,007	3	0	3	91
(60 LEDs)			T2S	14,681	3	0	3	70	18,467	3	0	3	88	19,908	3	0	3	95
			T2M	14,204	3	0	3	68	17,867	3	0	3	85	19,260	3	0	3	92
			T3S	14,518	3	0	3	69	18,262	3	0	3	87	19,687	3	0	3	94
	1000 mA 200 W		T3M	14,448	3	0	3	69	18,173	3	0	4	87	19,591	3	0	4	94
				14,473	3	0	3	69	18,205	3	0	3	87	19,625	3	0	4	94
	1000 mA	209 W	T4M	14,4/3						-	-	_	_					_
	1000 mA	209 W	T4M TFTM	14,253	2	0	3	68	17,928	3	0	4	86	19,326	3	0	4	92
	1000 mA	209 W			2	0	3	68 72	17,928 19,028	3	0	1	86 91	19,326 20,512	3	0	1	92
	1000 mA	209 W	TFTM	14,253	-	-	_	-		-	-	_	_		-	-	-	_
	1000 mA	209 W	TFTM T5VS	14,253 15,127	4	0	1	72	19,028	4	0	1	91	20,512	4	0	1	98

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Amb	Ambient					
0°C	32°F	1.02				
10°C	50°F	1.01				
20°C	68°F	1.00				
25°C	77°F	1.00				
30°C	86°F	1.00				
40°C	104°F	0.99				

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000					
	DSX1 LED 60C 1000								
Lumen Maintenance	1.0	1.0 0.95 0.93							
Factor	DSX1 LED 60C 700								
	1.0	0.99	0.98	0.96					

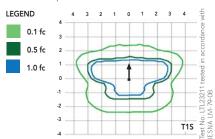
Electrical Load

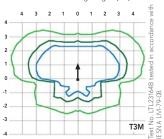
					Curre	nt (A)		
Number of LEDs	Drive Current (mA)	System Watts	120	208	240	277	347	480
	530	52	0.52	0.30	0.26	0.23		
30	700	68	0.68	0.39	0.34	0.30	0.24	0.17
	1000	105	1.03	0.59	0.51	0.45	0.36	0.26
	530	68	0.67	0.39	0.34	0.29	0.23	0.17
40	700	89	0.89	0.51	0.44	0.38	0.31	0.22
	1000	138	1.35	0.78	0.67	0.58	0.47	0.34
	530	99	0.97	0.56	0.48	0.42	0.34	0.24
60	700	131	1.29	0.74	0.65	0.56	0.45	0.32
	1000	209	1.98	1.14	0.99	0.86	0.69	0.50

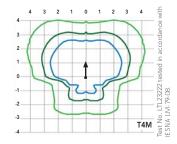
Photometric Diagrams

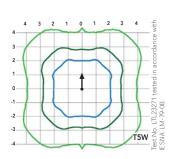
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 1 homepage.

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (20)









FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). LowEPA (1.2 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 4000 K (70 minimum CRI) or optional 3000 K (80 minimum CRI) or 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly product, meaning it is consistent with the LEED® and Green Globes criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of 30, 40 or 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L96/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD < 20%, and an

expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV or 6kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERISTM series pole drilling pattern. Optional terminal block, tool-less entry, and NEMA photocontrol receptacle are also available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D 672,492 S. International patent pending.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Full warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Specifications subject to change without notice.





D-Series LED Bollard Luminaire

Designed to Perform. Built to Last. The D-Series LED Bollard is designed to perform the way a bollard should – with zero uplight. An optical leap forward, this luminaire will meet the most stringent of lighting codes. The D-Series LED Bollard's rugged construction, durable finish and long-lasting LEDs will provide years of maintenance-free service.

Quick FACTS

- Replaces up to 100W MH
- Lumen packages up to 2,245 lumens
- Input watts from 16 39W
- Asymmetric and Symmetric optical distributions
- Available in 3000K, 4000K & 5000K CCT
- Super durable finish for enhanced color and gloss retention







Key **FEATURES**

- Energy savings of 70% vs. 100W metal halide bollards
- 20+ years expected service life with outstanding lumen maintenance
- Sturdy 8" aluminum shaft is rugged and durable, matching existing bollard dimensions while lasting much longer
- Three-point mounting is both secure and adjustable, allowing for easy leveling and 360° rotation during installation
- Optional cold temperature (-20C) emergency battery backup provides illumination along paths of egress during times of power loss

D-SERIES LED BOLLARD										
DISTRIBUTION	SYMMETRIC	ASYMMETRIC								
LUMENS (4000K)	2,064	1,588								
INPUT WATTS	39W	31W								



D-Series LED Bollard Luminaire

ORDERING INFORMATION

EXAMPLE: DSXB LED 16C 700 40K SYM MVOLT DDBXD

DSXB LED								
Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Control options	Other options	Finish (required)
DSXB LED	Asymmetric 12C 12 LEDs ¹ Symmetric 16C 16 LEDs ²	350 350 mA 450 450 mA ³ 530 530 mA 700 700 mA	30K 3000K 40K 4000K 50K 5000K AMBLW Amber limited wavelength ⁴	ASY Asymmetric ¹ SYM Symmetric ²	MVOLT ⁵ 120 ⁵ 208 ⁵ 240 ⁵ 277 ⁵ 347	Shipped installed PE Photoelectric cell, button type DMG 0-10V dimming driver (no controls) ELCW Emergency battery backup 6	Shipped installed SF Single fuse (120, 277, 347V) 7 DF Double fuse (208, 240V) 7 H24 24" overall height H30 30" overall height H36 36" overall height FG Ground-fault festoon outlet L/AB Without anchor bolts	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for DSXB



NOTES

- 1 Only available in the 12C, ASY version.
 - Only available in the 16C, SYM version.
- 3 450mA is only available with AMBLW.
- 4 AMBLW is only available with 450mA.
- 4 AVIOLUS is only available with 450mm.
 5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- 6 Not available with 347V.
- 7 Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.







August 19, 2014

Bender & Associates Haven Burkee

Please see my responses below to Donna Bosold's e-mail received earlier today 8/19/14.

Please see the anticipated dates listed below for the Keys Energy Services Renovation project located at 1001 James Street Key West, FL.

- 1. Anticipated date for City Commission Approval September 16, 2014
- 2. Anticipated date for Appeal date Closure November 4, 2014
- 3. Anticipated date of GMP completion October 1, 2014
- 4. Anticipated date of GMP Approval October 15, 2014
- 5. Anticipated date of Permit Submittal October 15, 2014
- 6. Anticipated date of Construction Commencement January 4, 2015
- 7. Anticipated date of Construction Completion March 30, 2016
- 8. Anticipated date of Occupancy April 4, 2016

At this time Biltmore Construction Co., Inc. does not anticipate any weekend or Holiday work on this project. If weekend work is needed it will be performed within restricted working hours of 8:00am to 4:00pm.

Biltmore Construction co., Inc will be installing construction site fencing around the entire site with a dust and site screening attached.

Respectfully

Tony Jenkins
Biltmore Construction Co., Inc.