ABBREVIATIONS

A

ACOUS.	ACOUSTICAL
A.C	AIR CONDITIONING
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE
AGGR.	AGGREGATE
AL.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASB.	ASBESTOS
ASPH.	ASPHALT

B

BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BLKHD.	BULKHEAD
BM.	BEAM
BOT.	BOTTOM

C

CAB.	CABINET
CARP.	CARPET
C.B.	CATCH BASIN
CEM.	CEMENT
CER.	CERAMIC
C.I.	CAST IRON
C.G.	CORNER GUARD
CLG.	CEILING
CLKG.	CAULKING
CLO.	CLOSET
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
C.O.	CASED OPENING
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CORR.	CORRIDOR
CTSK.	COUNTERSUNK
CNTR.	COUNTER
C.T.	CERAMIC TILE
CTR.	CENTER

D

DBL.	DOUBLE
DEPT.	DEPARTMENT
D.F.	DRINKING FOUNTAIN
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
D.O.	DOOR OPENING
DR.	DOOR
DWR.	DRAWER
DS.	DOWN SPOUT
D.S.P.	DRY STANDPIPE
DWG.	DRAWING

E

E.	EAST
EA.	EACH
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENCL.	ENCLOSURE
E.P.	ELECTRICAL PANEL BOARD
EQ.	EQUAL
EQPT.	EQUIPMENT
E.S	EMERGENCY OVERFLOW SCUPPER
E.W.C.	ELECTRIC WATER COOLER
EXST.	EXISTING
EXPO.	EXPOSED
EXP.	EXPANSION
EXT.	EXTERIOR

F

F.A.	FIRE ALARM
F.B.	FLAT BAR
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CAB.
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH
FL.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUDS
FPRF.	FIREPROOF
F.S.	FULL SIZE
FT.	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
F.V.	FIELD VERIFY
F.V.C.	FIRE VALVE CABINET

G

GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.C.	GENERAL CONTRACTOR
GL.	GLASS
GND.	GROUND
GR.	GRADE
GYP.	GYPSUM
G.W.B.	GYPSUM WALLBOARD

H

H.B.	HOSE BIB
H.C.	HOLLOW CORE
HDWD.	HARD WOOD
HDWE.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HGT.	HEIGHT

I

I.D.	INSIDE DIAMETER (DIM.)
IN.	INCH
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT

J

JAN.	JANITOR
JST.	JOIST
JT.	JOINT

K

KIT.	KITCHEN

L

LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
L.F.	LINEAR FEET
LKR.	LOCKER
LT.	LIGHT
LTG.	LIGHTING
LTWT.	LIGHT WEIGHT

M

MAX.	MAXIMUM
M.C.	MEDICINE CABINET
MACH.	MACHINE
MECH.	MECHANICAL
MEMB.	MEMBRANE
MET.	METAL
MFR.	MANUFACTURER
MH.	MANHOLE
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
M.L.	MATCH LINE
M.O.	MASONRY OPENING
MTD.	MOUNTED
MUL.	MULLION

N

N.	NORTH
N.I.C.	NOT IN CONTRACT
NO. OR #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE

O

O.A.	OVERALL
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIMENSION
OFF.	OFFICE
OPNG.	OPENING
OP. HD.	OPPOSITE HAND
OPP.	OPPOSITE

P

PRCST.	PRE-CAST
P.L.	PROPERTY LINE
P.T.	PRESSURE TREATED
PL.	PLATE
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
POL.	POLISHED
PR.	PAIR
PT.	POINT
P.T.D.	PAPER TOWEL DISPENSER
PTN.	PARTITION
PTR.	PAPER TOWEL RECEPTACLE

Q

Q.T.	QUARRY TILE

R

R.	RISER
RAD.	RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
REFL.	REFLECTED
REFR.	REFRIGERATOR
RF.	ROOF
RGTR.	REGISTER
REINF.	REINFORCED
REQ.	REQUIRED
RESIL.	RESILIENT
RM.	ROOM
R.O.	ROUGH OPENING
RWD.	REDWOOD
R.W.L.	RAIN WATER LEADER

S

S.	SOUTH
SABF	SOUND ATTENUATION FIRE BLANKETS
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
SCHED.	SCHEDULE
S.D.	SOAP DISPENSER
SECT.	SECTION
SH.	SHELF
SHR.	SHOWER
SHT.	SHEET
SIM.	SIMILAR
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
SPEC.	SPECIFICATION
SQ.	SQUARE
S.ST.	STAINLESS STEEL
S.SK.	SERVICE SINK
STA.	STATION
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRL.	STRUCTURAL
SUSP.	SUSPEND
SYM.	SYMMETRICAL

T

TRD.	TREAD
T.B.	TOWEL BAR
T.C.	TOP OF CURB
TEL.	TELEPHONE
TEMP.	TEMPERED
T. & G.	TONGUE AND GROOVE
THK.	THICK
TOIL.	TOILET
T.P.	TOP OF PAVEMENT
T.P.D.	TOILET PAPER DISPENSER
T.V.	TELEVISION
T.W.	TOP OF WALL
TYP.	TYPICAL
T.O.B.	TOP OF BEAM
T.O.C.	TOP OF CONCRETE
T.O.S.	TOP OF SLAB

U

UNF.	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
UR.	URINAL
	UNDERWRITERS LAB

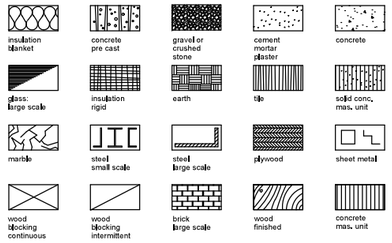
V

V.I.F.	VERIFY IN FIELD
VERT.	VERTICAL
V.T.	VINYL TILE
VEST.	VESTIBULE
V.B.	VAPOR BARRIER

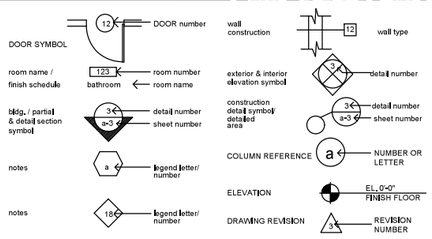
W

W.	WEST
WT.	WEIGHT
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W/O	WITHOUT
WP.	WATERPROOF
WSCT.	WAINSCOT

MATERIAL LEGEND



SYMBOL LEGEND



PROJECT TEAM

OWNER:	S F LAND LLC 6565 COLLINS AVE MIAMI BEACH, FL 33141 TEL 305 666 2122
DESIGN/PROJECT ARCHITECT:	BEILINSON GOMEZ ARCHITECTS PA JOSE L. GOMEZ AR0015416 8101 BISCAYNE BLVD., SUITE 309-310 MIAMI, FL 33138-4664 TEL. (305) 559.1250 FAX. (305) 551.1740
LANDSCAPE ARCHITECT:	GARDNER + SEMLER DESIGN LANDSCAPE ARCHITECTURE CORP. ID # 0000266 17670 NW 78th AVE., SUITE 214 MIAMI, FL 33015 TEL. (305) 392.1016

APPLICABLE CODES

GOVERNING ZONING CODE:	MIAMI BEACH, FLORIDA CODE ORDINANCE
BUILDING CODE:	FLORIDA BUILDING CODE 2017
EXISTING BUILDING:	FLORIDA BUILDING CODE: EXISTING BUILDING CODE 2017
STRUCTURAL:	FLORIDA BUILDING CODE 2017
PLUMBING:	FLORIDA BUILDING CODE 2017 - PLUMBING
MECHANICAL:	FLORIDA BUILDING CODE 2017 - MECHANICAL
ELECTRICAL:	FLORIDA BUILDING CODE - 2017 EDITION
ACCESSIBILITY:	FLORIDA BUILDING CODE 2017 - CHAPTER 11 FACBC
FIRE PROTECTION:	FLORIDA FIRE PREVENTION CODE - 2017 EDITION

DRAWING INDEX

ARCHITECTURAL

PROJECT INFORMATION

SCOPE OF WORK

THE SCOPE OF THIS PROJECT IS AN OPEN PARKING LOT ON GRADE FOR A TOTAL OF 57 PARKING SPACES.

LEGAL DESCRIPTION

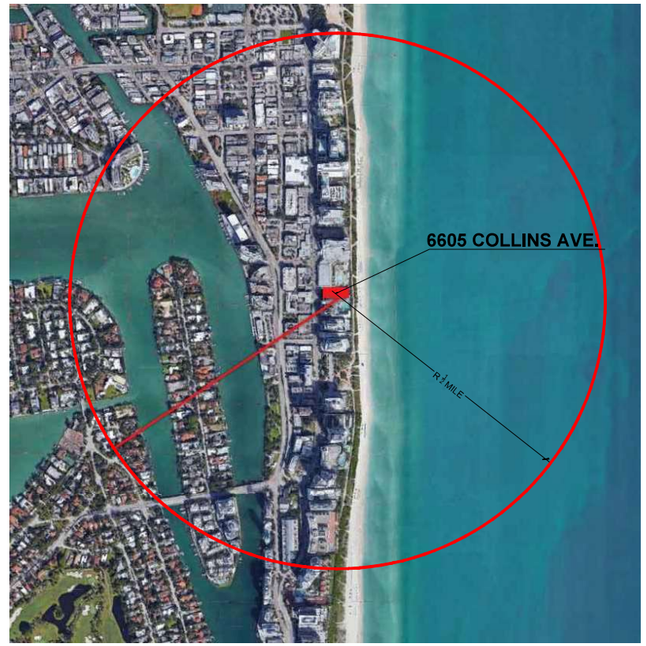
LOT 43, BLOCK 1, AMENDED PLAT OF SECOND FRONT SUBDIVISION, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 28, PAGE 28, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

ZONING SUMMARY

PROJECT ADDRESS:	6605 COLLINS AVE	
HISTORIC DISTRICT:	N/A	
ZONING DISTRICT:	RM-3 (RESIDENTIAL MULTIFAMILY, HIGH INTENSITY)	
PRESENT / PROPOSED OCCUPANCY:	VACANT LOT / OPEN AIR PARKING LOT	
	REQUIRED	PROVIDED
LOT AREA	MIN. 7,000 S.F.	MIN. 25,072 S.F. / 0.576 ac
LOT WIDTH	MIN. 50 F.	75.33 F.
HEIGHT	MAX. 200 F. (OCEAN FRONT)	N/A
SETBACK REQUIREMENTS AT GRADE PARKING LOT		
FRONT	20 F.	20'-0"
SIDE INTERIOR	5 F.	North 8'-6" / South 8'-10"
REAR	50 F. (OCEAN FRONT)	50'-0"

REQUEST FROM D.R.B.

1. DESIGN REVIEW APPROVAL FOR AN OPEN AIR PARKING LOT
2. A VARIANCE OF SECTION 130-70, ALLOWING PORTIONS OF THE TEMPORARY PARKING LOT TO CONSIST OF CONCRETE, ASPHALT, AND PAVERS, WHEN PAVERS ARE REQUIRED FOR ALL SURFACES ON THE TEMPORARY PARKING LOT.



DESIGN R. BOARD - FINAL SUBMITTAL 10-08-19

DESIGN REVIEW APPROVAL

BEILINSON GOMEZ ARCHITECTS

ARCHITECTURE AA0001062
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6605 COLLINS AVENUE
6605 COLLINS AVENUE
MIAMI BEACH, FL 33141

DATE	REVISION

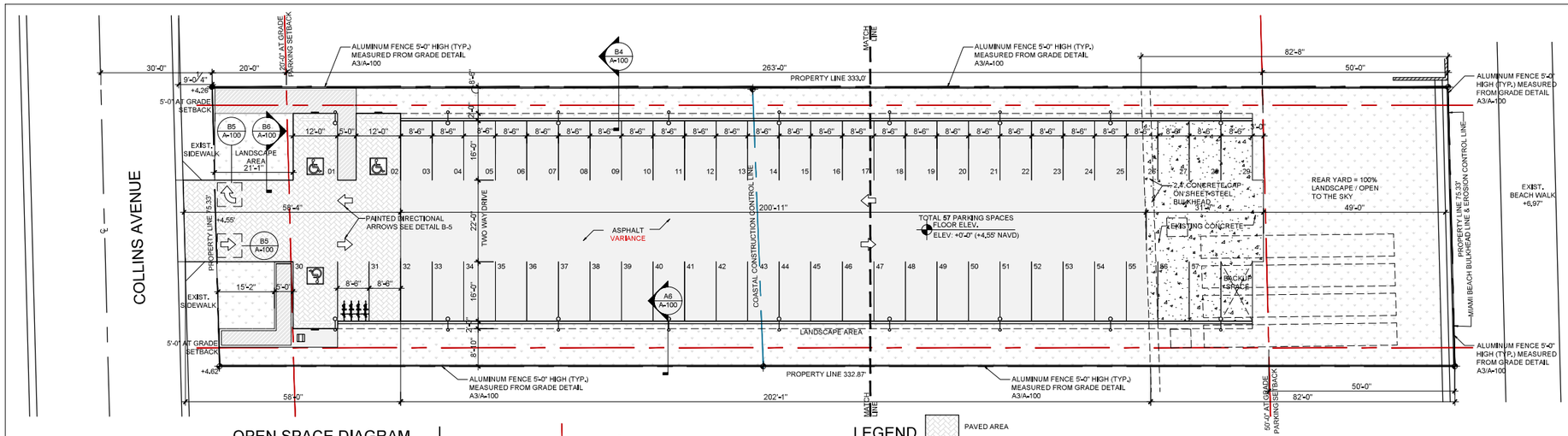
DWG. TITLE
PROJECT INFORMATION INDEX

SCALE
N.T.S.

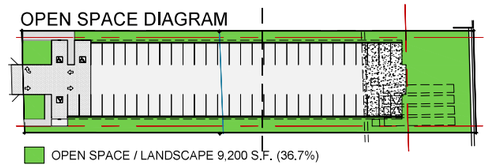
PROJECT NO.
2018-24

DATE
10-07-19

SHEET NUMBER
A-001



OPEN SPACE DIAGRAM



OPEN SPACE / LANDSCAPE 9,200 S.F. (36.7%)

PAVED AREA 2,200 S.F. (8.8%)

TOTAL 11,400 S.F. (45.5%)

LEGEND

PAVED AREA

EXISTING CONCRETE

ASPHALT

LANDSCAPE

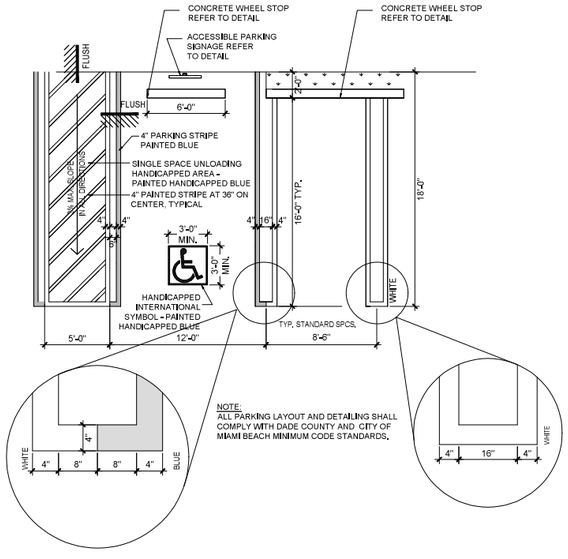
NOTES :
1. REFER TO LANDSCAPE FOR ALL PLANTING.

PARKING ON GRADE

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

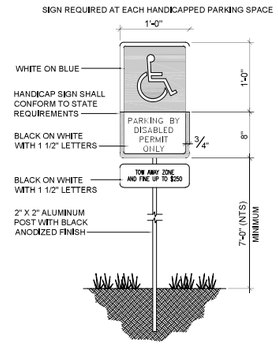
C1 OVERALL SITE PLAN

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



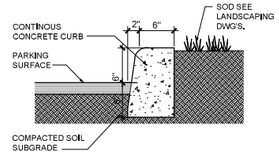
A1 PARKING DETAILS

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



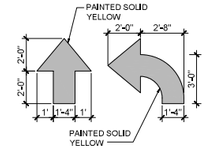
B3 SIGN DETAIL

SCALE: N.T.S



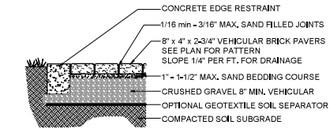
B4 CONCRETE CURB SECTION

SCALE: 1" = 1'-0"



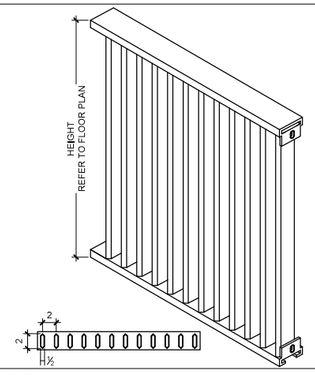
B5 DIRECTION ARROWS

SCALE: N.T.S



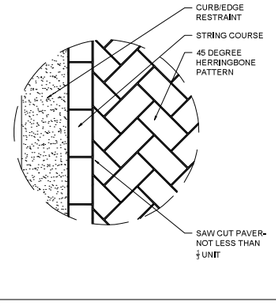
B6 PAVERS SECTION

SCALE: 1" = 1'-0"



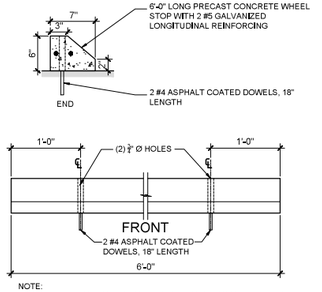
A3 ALUMINUM FENCE (TYP. DETAIL)

SCALE: N.T.S.



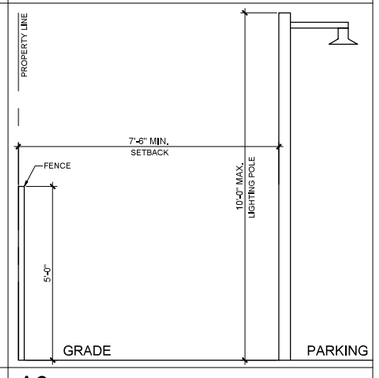
A4 PAVERS TYP. DETAIL

SCALE: 1" = 1'-0"



A5 WHEEL STOP TYP. DETAIL

SCALE: 1" = 1'-0"



A6 FENCE AND LIGHTING POLE (TYP.)

SCALE: 1" = 2'-0"

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MIAMI BEACH, FL 33141

DATE	REVISION

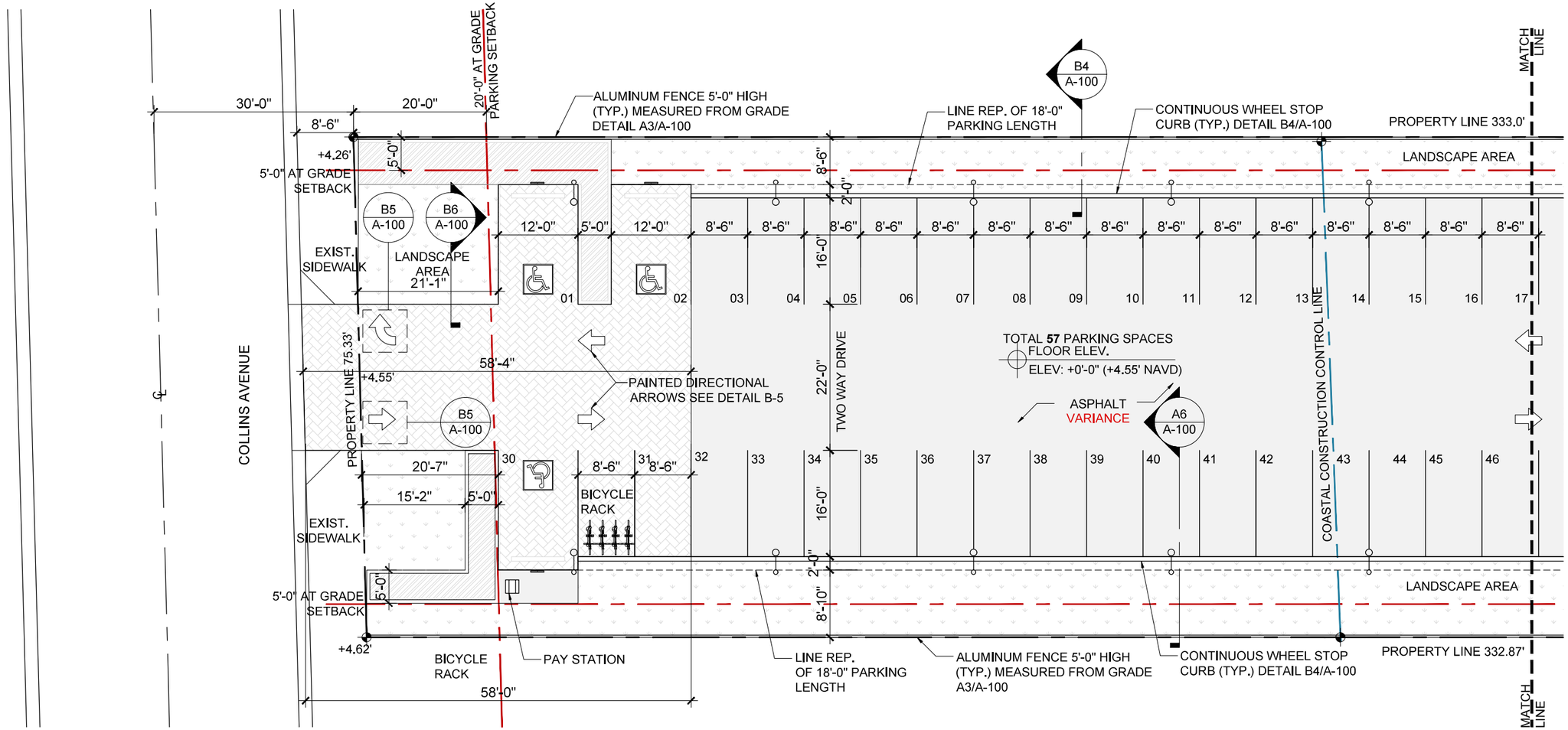
DWG. TITLE
OVERALL SITE PLAN AND SITE DETAILS

SCALE
AS SHOWN

PROJECT NO.
2018-24

DATE
10-07-19

SHEET NUMBER
A-100



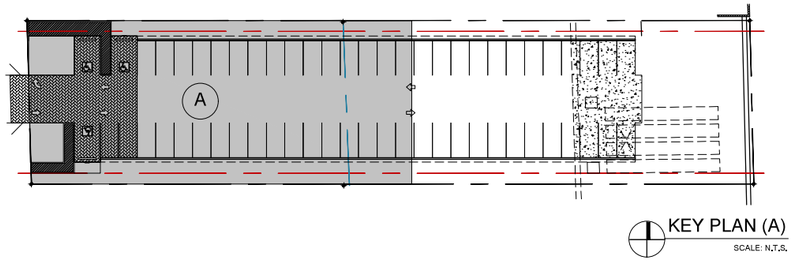
ENLARGED (A) SITE PLAN
SCALE: 1/8" =1'-0"

LEGEND

- PAVED AREA
- EXISTING CONCRETE
- ASPHALT
- LANDSCAPE

NOTES :

1. REFER TO LANDSCAPE FOR ALL PLANTING.



KEY PLAN (A)
SCALE: N.T.S.

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MIAMI BEACH, FL 33141

DATE	REVISION

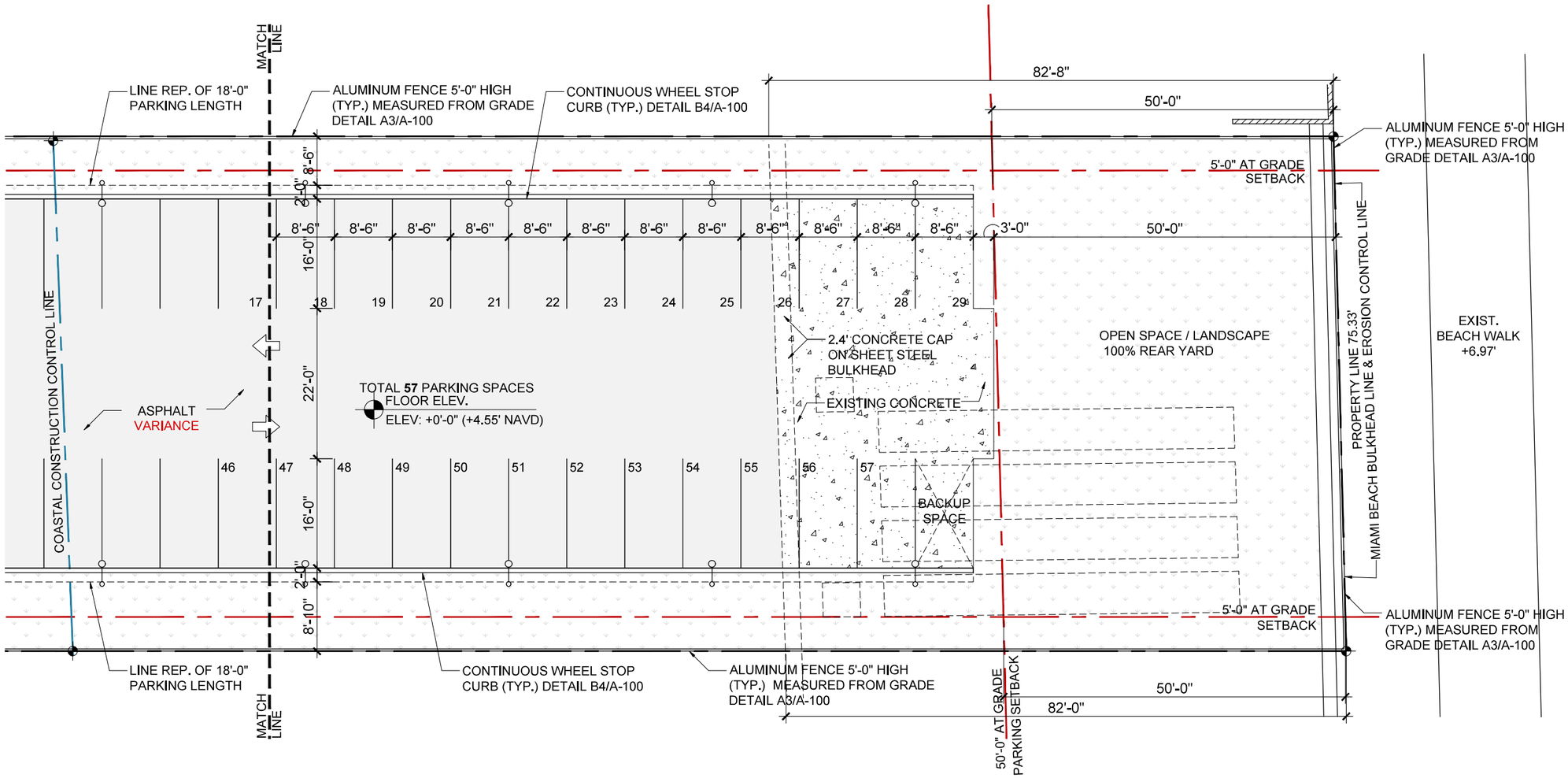
DWG. TITLE
ENLARGED (A) SITE PLAN

SCALE
AS SHOWN

PROJECT NO.
2018-24

DATE
10-07-19

SHEET NUMBER
A-101



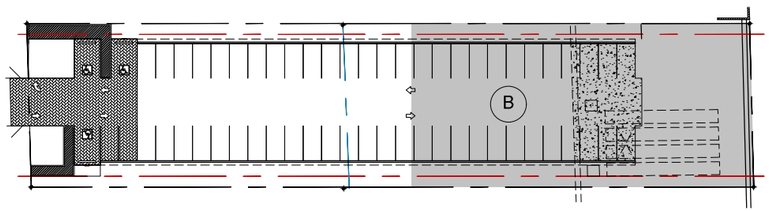
ENLARGED (B) SITE PLAN
SCALE: 1/8" =1'-0"

LEGEND

- PAVED AREA
- EXISTING CONCRETE
- ASPHALT
- LANDSCAPE

NOTES :

1. REFER TO LANDSCAPE FOR ALL PLANTING.



KEY PLAN (B)
SCALE: N.T.S.

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MIAMI BEACH, FL 33141

DATE	REVISION

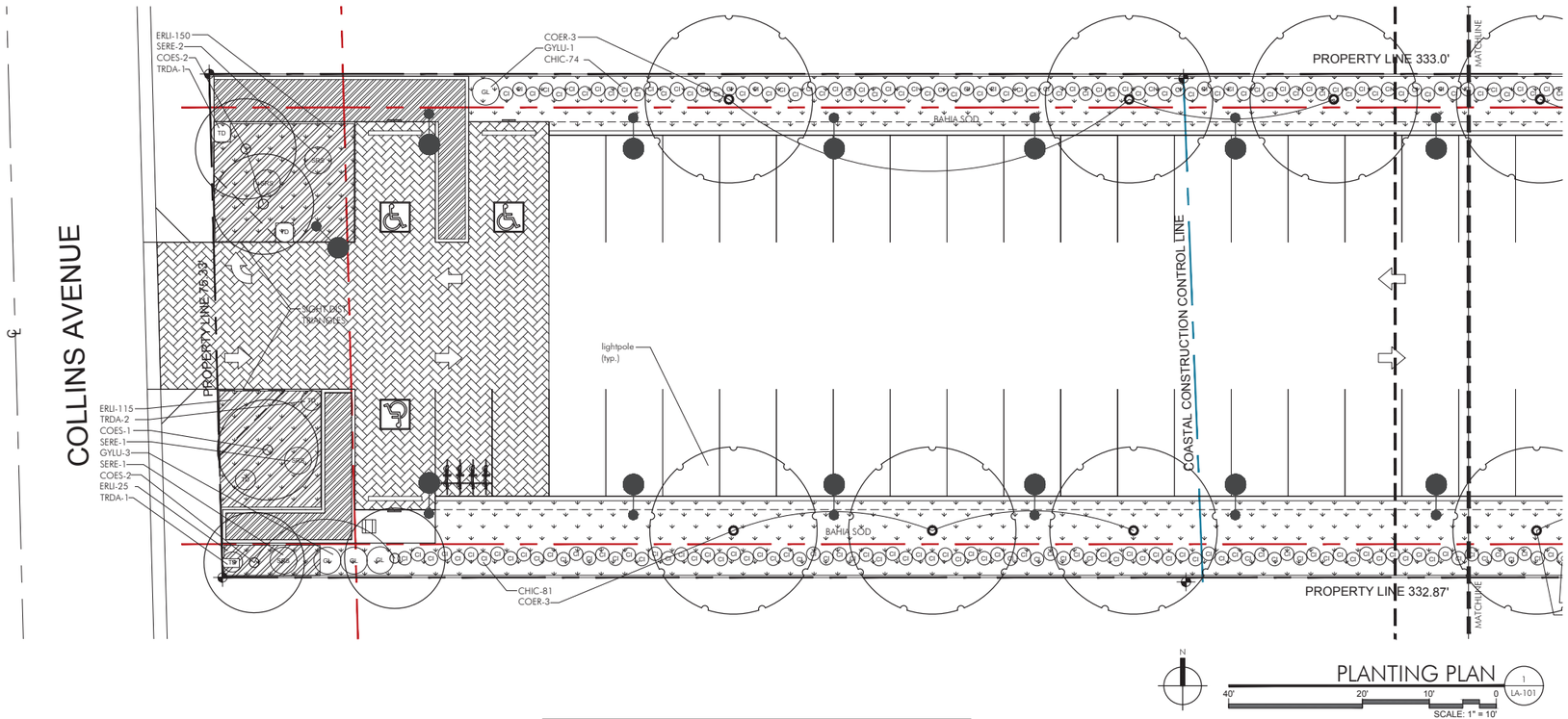
DWG. TITLE
ENLARGED (B) SITE PLAN

SCALE
AS SHOWN

PROJECT NO.
2018-24

DATE
10-07-19

SHEET NUMBER
A-102



NOTE: THERE ARE NO EXISTING TREES ON THIS SITE

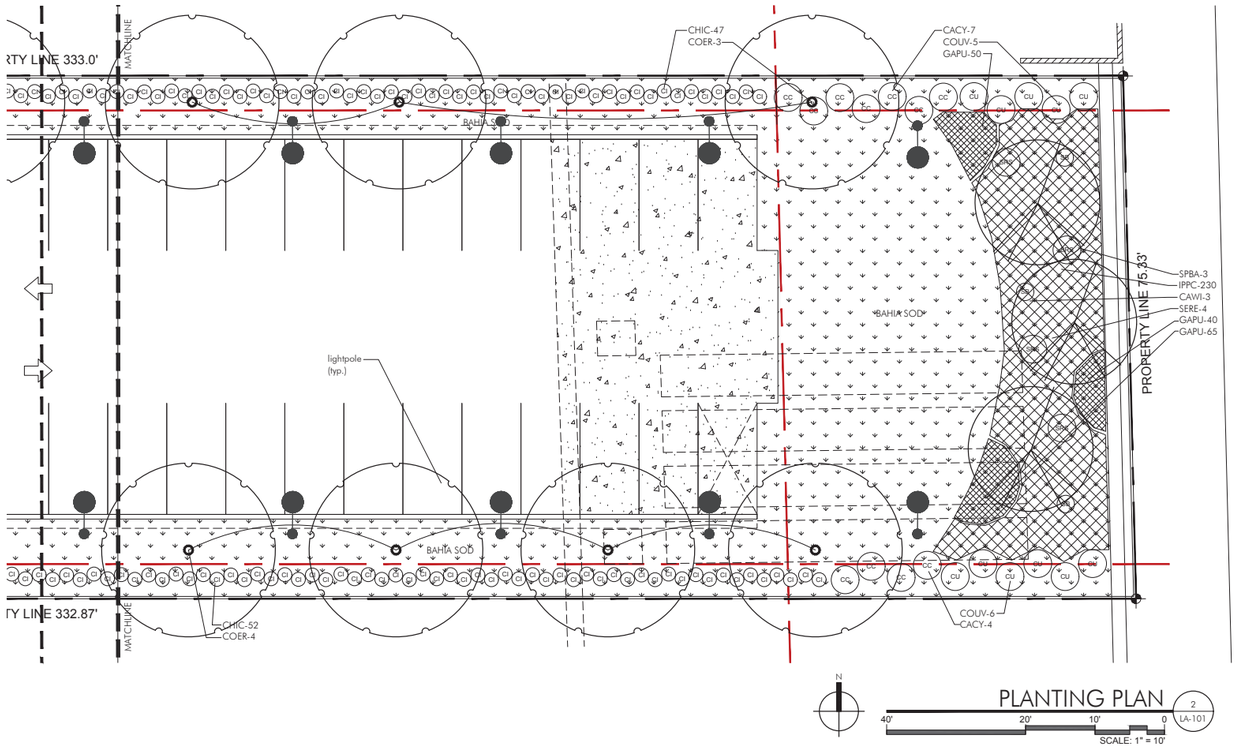
PLANT LIST				
TREES				
KEY	PLANT NAME	QTY.	UT.	SIZE
CAWI	Canella winterana …Wild Cinnamon	3	ea.	12' tall x 5' spread, 2" DBH min.
COER	Conocarpus erectus …Green Buttonwood	13	ea.	12' tall x 5' spread, 2" DBH min.
COES	Conocarpus erectus 'Sericeus' …Silver Buttonwood	5	ea.	12' tall x 5' spread, 2" DBH min., 4' CT single leader
SHRUBS AND GROUNDCOVERS				
KEY	PLANT NAME	QTY.	UT.	SIZE
CACY	Capparis cynophallophora …Jamaica Caper	11	ea.	6' tall OA, full to ground
CHIC	Chrysobalanus icaco …Cocoplum	254	ea.	18"x18", install 24" o.c.
COUV	Coccoloba uvifera …Seagrape	11	ea.	6' tall OA, full to ground
ERLI	Ernodea littoralis …Golden Creeper	290	ea.	3 gal cans, full, install 18" o.c.
GAPU	Gaillardia pulchella …Blanket Flower	155	ea.	1 gal cans, full, install 12" o.c.
GYLU	Gymnanthes lucida …Crabwood	4	ea.	6' tall OA, full to ground
IPPC	Ipomea pes-caprae …Railroad Vine	230	ea.	1 gal cans, full, install 24" o.c.
SERE	Serenoa repens 'Silver Form' …Saw Palmetto	8	ea.	24"x24", silver color
SPBA	Spartina bakerii …Sand Cordgrass	3	ea.	3 gal cans, full
TRDA	Tripsacum dactyloides …Fakahatchee Grass	5	ea.	3 gal cans, full
MISCELLANEOUS				
sod	Bahia Sod	as req.	s.f.	solid sod
	Planting Soil 70% Silica Sand 30% Everglades Muck	as req.	c.y.	
	Amerigrow Pinebark Mulch	as req.	c.y.	2" layer in all shrub beds

CITY OF MIAMI BEACH
LANDSCAPE LEGEND

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS

Zoning District__RM-3___ Lot Area _25,071 s.f._ Acres___0.58_____ __

	REQUIRED/ ALLOWED	PROVIDED
OPEN SPACE		
A. Square feet of required Open Space as indicated on site plan: Lot Area = ___25,071___ s.f.x _____ % = _____ s.f.	_____	7,176
B. Square feet of parking lot open space required as indicated on site Number of parking spaces __61___ x 10 s.f. parking space =	610	610
C. Total square feet of landscaped open space required: A+B=	_____	7,786 [31.05%]
LAWN AREA CALCULATION		
A. Square feet of landscaped open space required	_____	
B. Maximum lawn area (sod) permitted= ___30____ % x _7,574_ s.f.	2272	0 (BAHIA)
TREES		
A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements= ___28___ trees x ___0.58__ net lot acres - number of existing trees=	17	17
B. % Natives required: Number of trees provided x 30% =	6	17
C. % Low maintenance / drought and salt tolerant required: Number of trees provided x 50%=	9	17
D. Street Trees (maximum average spacing of 20' o.c.) ____75___ linear feet along street divided by 20'=	4	4
E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): _____ linear feet along street divided by 20'=	0	0
SHRUBS		
A. Number of shrubs required: Sum of lot and street trees required x 12=	252	296
B. % Native shrubs required: Number of shrubs provided x 50%=	126	296
LARGE SHRUBS OR SMALL TREES		
A. Number of large shrubs or small trees required: Number of required shrubs x 10%=	26	26
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=	13	26



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Date: 2019.10.08 13:40:52 -04'00'

DATE	REVISION

DWG. TITLE
PLANTING PLAN

SCALE
AS SHOWN

PROJECT NO.
2018-24

DATE
08-07-19

SHEET NUMBER
LA-101

LANDSCAPE SPECIFICATIONS
PART 1 - GENERAL

1.1 SCOPE
A. Contractor shall provide all labor, materials, equipment, supervision, and related work necessary to complete the landscape work in accordance with the intent of the landscape plans, schedules and these specifications. The extent of work is shown on the drawings which are a part of this document.

1.2 CONTRACTOR QUALIFICATIONS
A. Landscape installation work to be performed by a Contractor Certified by the Florida Nurserymen, Growers and Landscape Association (FNGLA) as a Certified Landscape Contractor. Any pruning to be supervised by an Arborist, certified by the International Society of Arboriculture (ISA) and licensed in Miami-Dade County.

1.3 INVESTIGATION OF UTILITIES
A. Prior to beginning work, the Contractor shall be responsible to locate existing underground utilities. Check with all utility companies and Sunshine State, call (811).

1.4 SUBSTITUTIONS
A. Only materials specified will be accepted, unless approved in writing by the Landscape Architect in advance.

1.5 PLANT SIZES
A. All plant sizes shall equal or exceed the minimum sizes as specified in the plant list. When plant sizes are specified as a range of size, installed materials shall average the mean of the range specified. Plants shall be measured following pruning, with branches in normal position. All necessary pruning shall be done at the time of planting.

1.6 PLANT QUALITY
A. All plant material shall be equal to or better than Florida No. 1 as classified by "Grades and Standards for Nursery Plants" by the Division of Plant Industry, Florida Department of Agriculture. They shall have a growth habit that is normal for the species; healthy, vigorous, free from insects, disease and injury.

B. The Owner or Landscape Architect reserves the right to refuse any plant material which does not conform to the intent of the written specifications or design.

C. CIRCLING ROOTS FOUND ON CONTAINER-GROWN MATERIAL WILL NOT BE ACCEPTED UNLESS REMEDIAL ROOT PRUNING, APPROVED BY THE LANDSCAPE ARCHITECT IS DONE BEFORE PLANTING.

1.7 PLANT QUANTITY
A. The plant quantities shown on the plant list are to be used only as an aid to bidders. In the case of discrepancy between the plant list and the plan, the quantity on the plan shall override the plant list.

1.8 UNIT PRICES
A. The successful bidder shall furnish to the Owner and the Landscape Architect, a unit price breakdown for all materials. The Owner may, at his discretion, add to or delete from the materials utilizing the unit price breakdown submitted to and accepted by the Owner.

1.9 SUBMITTALS
A. Fertilizer: The Contractor shall submit to the Owner and Landscape Architect documentation that all the fertilizer used for the project is of the analysis specified and placed at the rates specified in section 2.2 FERTILIZER.

B. Planting soil: The Contractor shall submit a sample of the planting soil (approximately 1 cu. Ft.) for approval by the Landscape Architect prior to delivery to the site.

1.10 CLEAN-UP & MAINTENANCE OF TRAFFIC
A. Follow procedures in FDOT Index 600 for maintenance of traffic during construction.

B. At the end of each work day, the Contractor shall remove debris and shall barricade the un-filled holes in a manner appropriate in the path of pedestrians and motorists.

C. Upon completion of the work or any major portion of the work or as directed by the Landscape Architect, all debris and surplus material from his work shall be removed from the job site.

1.11 MAINTENANCE PRIOR TO ACCEPTANCE
A. The Contractor is responsible to maintain the plantings until they are accepted under the provisions of 1.12 "ACCEPTANCE OF INSTALLATION".

1. Plants: Begin maintenance immediately following the final plant installation operation for each plant and continue until all plant installation is complete and accepted. Maintenance shall include watering all plants, weeding, mulching, pest and disease control, tightening and repairing of guys, repair of braces, removal of dead growth, resetting of plants to proper grade or up-right position, restoration of plant saucer, litter pick-up in plant beds and other necessary operations to assure specified minimum grade of Florida No. 1.

2. Turf Areas: Begin maintenance of turf immediately following the placement of sod and continue until sod installation is complete and accepted. Maintenance shall include but not be limited to, watering, leveling, mowing, weed and pest control, fungus and disease control and other necessary operations as determined by the Landscape Architect and good nursery practice.

3. Re-setting or straightening trees and palms:
The Contractor shall re-set and/or straighten trees and palms as required at no additional cost to the Owner unless caused by sustained winds of 75 mph or more. Then, the costs of the operations may be charged to the owner. Re-set trees within 48 hours.

1.12 ACCEPTANCE OF INSTALLATION
A. Inspection: Inspection of the work, to determine completion of contract work, exclusive of the possible replacement of plants and turf, will be made by the Landscape Architect at the conclusion of the maintenance period. Written notice requesting such an inspection and submitted by the Contractor at least ten (10) days prior to the anticipated date.

1.13 GUARANTEE
A. Guarantee all plants for a period of one year (CCD). Guarantee shall commence from the date of written acceptance. Plant material which is on the site and scheduled to be relocated is not covered by the guarantee except in the case of Contractor's negligence or work that has been done in an unworkman-like manner. The Contractor is not responsible for loss due to acts of god, (i.e.) sustained winds of 75 mph or more, floods, frost, lightning, vandalism or theft.

1.14 REPLACEMENT
A. Replacement shall be made during the guarantee period as directed by the Landscape Architect within ten (10) days from time of notification. For all replacement plant material, the guarantee period shall extend for an additional forty-five (45) days beyond the original guarantee period. The Contractor shall be responsible to provide water to the replacement plants in sufficient quantity to aid in their establishment. At the end of the guarantee period, inspection will be made by the Landscape Architect, upon written notice requesting such inspection and submitted by the Contractor at least five (5) days before the anticipated date. Replacement plants must meet the requirements of Florida No. 1 at time of inspection. Remove from the site all plants that are dead or in a state of unsatisfactory growth, as determined by the Landscape Architect. Replace these and any plants missing due to the Contractor's negligence as soon as conditions permit.

1. Materials and Operations: All replacement plants shall be of the same kind and size as indicated on the plant list. The Contractor shall supply and plant the plants as specified under planting operations.

2. Cost of Replacements: A sum sufficient to cover the estimated cost of possible replacements, including material and labor will be retained by the Owner and paid to the Contractor after all replacements have been satisfactorily made and approved by the Landscape Architect.

PART 2 - MATERIALS

2.1 PLANTING SOIL
A. Planting soil for trees, shrubs and ground covers shall be of the composition noted on the plans, measured by volume.

B. Soil for Sodded Areas: shall be coarse lawn sand.

2.2 FERTILIZER
A. Fertilizer for trees, palms, shrubs, and groundcovers shall be as follows: LESCO Palm Special 13-3-13 or equal, Sulfur coated with iron and other minor elements and maximum of 2% chlorine, or brand with equal analysis. The fertilizer shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original unopened containers, bearing the manufacturer's guaranteed analysis. Fertilizer for sod and seeded areas shall be 8-6-8, 50% organically derived nitrogen, or equal.

2.3 WATER
A. The Contractor shall provide potable water on site, available from the start of planting. The Contractor is responsible to ascertain the location and accessibility of the water source. The Contractor is responsible to provide the means of distribution (i.e. water truck, hoses, etc.) for distribution of water to the planting areas.

2.4 MULCH
A. Mulch shall be shredded Melaleuca mulch (Florimulch) as manufactured by Forestry Resources, Inc., or equal.

2.5 ROOT BARRIER MATERIAL
A. Root barrier material shall be 24" deep polypropolylene panels by DeepRoot or approved equal.

B. Install per details in the plans.

PART 3 - INSTALLATION PROCEDURES

3.1 LAYOUT
A. Verify location of all underground utilities and obstructions prior to excavation.

3.2 HERBICIDE TREATMENT
A. In all areas infected with weed and/or grass growth, a systemic herbicide shall be applied per manufacturer's rates. When it has been established where work will be done, the systemic herbicide shall be applied in accordance with manufacturer's labeling to kill all noxious growth. Contractor shall schedule his work to allow more than one application to obtain at least 95% kill of undesirable growth. If necessary, Contractor shall conduct a test to establish suitability of product and applicator to be used on this project, prior to execution of the full application.

3.3 PLANT PIT EXCAVATION AND BACKFILLING
A. Trees: See the Planting and Bracing Details and notes.

B. All planting holes shall be hand dug where machine dug holes may adversely affect utilities or improvements.

C. Shrubs and Groundcover: Shrubs and groundcover shall be planted in a soil bed as described in the notes and details. Space shrubs and provide setback from curb and pavements as shown in the plans.

D. Watering of field-grown plants: Thoroughly puddle in water to remove any air pockets in the plant hole.

3.4 WATERING
A. The Contractor is responsible to provide the water for all new plants and transplants and means of distribution (i.e. hand watering or water truck) during the maintenance period and extending into the period after acceptance until the full schedule as listed below is complete. Water for trees and other large field grown plants shall be supplemented by hand or water truck, in addition to the irrigation system, (if one is provided). Contractor can adjust watering schedule during heavy rain season upon approval of the Landscape Architect.

AMOUNT OF WATER PER APPLICATION
For trees up to 5 inch caliper - 5 gallons
From 5 to 8 inch caliper - 25 gallons
9 inch and up caliper - 50 gallons

FREQUENCY OF WATER
Daily for the first week
3 times per week for weeks 2 - 5
2 times per week for weeks 6 - 8
1 time per week for weeks 9 - 12

B. Water in plants by thoroughly soaking of the entire root ball immediately after planting. For large trees and shrubs, add water while backfilling hole to eliminate any air pockets in the soil around the root ball.

C. Water shrubs, sod and groundcover a minimum of once daily for a week or until an irrigation system is fully operational. If no irrigation system is to be installed, the Contractor shall be responsible for watering the shrub, sod, and groundcover for the time specified above, after installation of each section of the planting installed.

3.5 FERTILIZING
A. Add fertilizer on top of the surface of shrubs beds and tree and palms root balls two (2) months after installation. Fertilize sod within two (2) days after installing after planting of each segment of the job. Fertilizer shall be applied after soil has been well moistened. Fertilizer shall be washed off of plant leaves and stems immediately after application. Apply at the following rates:

1. Trees and Large Shrubs: One (1) pound per inch of trunk diameter, spread evenly over the root ball area.

2. Shrubs: One half (1/2) handful per shrub, spread evenly over the root ball area.

3. Groundcover: Twelve (12) pounds per 100 sq. ft. of bed area.

4. Sod: Twelve (12) pounds per 1,000 sq. ft. Wash fertilizer off blades immediately after spreading.

3.6 MULCHING
A. Spread mulch two (2) inches thick uniformly over the entire surface of shrubs and groundcover beds, depth measured after settling, unless otherwise specified in the plans. Provide 36" diameter bed of mulch, measured from outer edge of the trunk, for all trees and palms planted in sod areas. Keep mulch away from contact with the trunk. Create a 6" high ring of mulch at the outer edge of tree and palm holes.

3.7 GUYING AND BRACING
A. See the details bound herewith or made part of the plans.

3.8 SODDING
A. Provide a blanket of lown sand as described in the notes in these plans. Prior to planting, remove stones, sticks, etc. from the sub-soil surface. Excavate existing non-conforming soil as required so that the finish grade of sod is flush with adjacent pavement or top of curb as well as adjacent sod in the case of sod patching.

B. Place sod on moistened soil, with edges tightly butted, in staggered rows at right angles to slopes. The sod shall be rolled with a 500 pound hand roller immediately after placing.

C. Keep edge of sod bed a minimum of 18" away from groundcover beds and 24" away from edge of shrub beds and 36" from trees, measured from the edge of plant or tree trunk.

D. Sod shall be watered immediately after installation to uniformly wet the soil to at least two inches below the bottom of sod strips.

E. Apply fertilizer to the sod as specified in Section 3.5.

F. Excavate and remove excess soil so top of sod is flush w/top of curb or adjacent pavement, or adjacent existing sod.

PLANT BED PREPARATION NOTES

1. In all areas where new sod and shrub and groundcover masses are to be planted, kill all existing weeds by treating with Round-up prior to beginning soil preparation.

2. In all shrub and groundcover beds, prepare soil as described for either condition, over the entire area to be planted:

Condition A:
If any compacted road base or asphalt or rocky soil is encountered, remove compacted material entirely to allow an 18" depth of planting soil per plant list unless otherwise stated. Backfill the entire area of the shrub and groundcover beds with 18" planting soil (as specified in Plans) to within 2 inches of the adjacent pavement or top of curb. Remove all debris and rocks and pebbles larger than 2 inches in size and level the grade before planting.

Condition B:
Where no compacted soil is encountered, thoroughly mix 6 inches of planting soil per plant list into the existing soil to a depth of 18 inches unless otherwise stated. If required, excavate and remove the existing soil to lower the grade, so that the prepared mix is finished to a minimum of 2 inches below top of curb or adjacent walkway. Remove all debris and rocks and pebbles larger than 2 inches in size and level the grade before planting.

For all sod areas, spread a 2" deep layer of lawn sand prior to sodding. Remove all debris and rocks and pebbles larger than 2 inches in size and level the grade before sodding. Remove, if required, existing soil so that top of sod is flush with and adjacent top of curb or pavement.

For Trees and shrubs larger than 7 gallon, Add Diehard® transplant innoculant supplied by Horticultural Alliance, Inc. (800-628-6373) or equal. Mix into top 8-10 inches of planting hole, making sure it is contact with the root ball. Add at a rate specified by manufacturer (typically 4oz. per 1 inches of trunk caliper or 7 gallon can).

SPACING OF PLANTS (SEE PLANT SPACING DETAIL)

1. Plants shall be planted sufficiently away from edges of pavements or curbs, to allow for growth toward the edges of the bed.

PROTECTION OF PLANTS

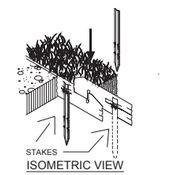
1. The Contractor shall be responsible to protect existing trees and shrubs in and adjacent to the area of work. Erect barriers as necessary to keep equipment and materials, any toxic material, away from the canopy drip line of trees and shrubs. DO NOT PILE SOIL OR DEBRIS AGAINST TREE TRUNKS OR DEPOSIT NOXIOUS BUILDING SUPPLIES OR CHEMICALS WITHIN THE DRIP LINE.

PERMALOC CLEAN LINE
ALUMINUM LANDSCAPE EDGING
PERMALOC CORPORATION, 13555 BARRY STREET HOLLAND, MI. 49424
(800) 356-9600 PHONE: (616) 399-9600 Fax: (616) 399-9779 WWW.PERMALOC.COM

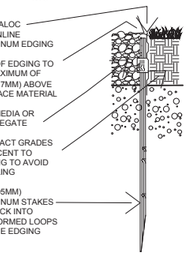
SIZE:
☐ ⅛" X 5½" (3.2MM X 140MM), 0.072" (1.82MM) THICK
w/ 0.135" (3.43MM) EXPOSED TOP LIP

FINISH LEGEND:
(MF) MILL FINISH-NATURAL ALUMINUM

NOTES:
1. INSTALL PER MANUFACTURER'S "INSTALLATION GUIDELINES"
2. 8'-0" (2.44 M) SECTIONS TO INCLUDE (3) 12" (305 MM) ALUMINUM STAKES. 16'-0" (4.88 M) SECTIONS TO INCLUDE (5) 12" (305 MM) ALUMINUM STAKES.
3. CORNERS - CUT BASE EDGING UP HALFWAY AND
4. FORM A CONTINUOUS CORNER. PERMALOC CLEANLINE AS MANUFACTURED BY
5. PERMALOC CORPORATION, HOLLAND MI. (800) 356-9660, (616) 399-9600 CONTRACTORS NOTE: FOR PRODUCT AND
6. PURCHASING INFORMATION VISIT:WWW.PERMALOC.COM



ISOMETRIC VIEW
NTS



ALUMINUM EDGING DETAIL
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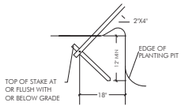
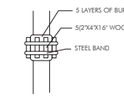
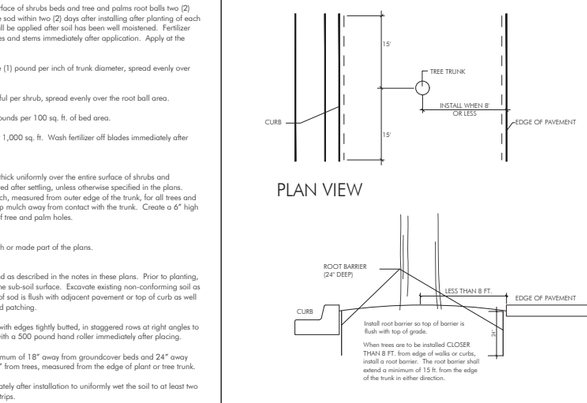


DETAIL A
N.T.S.



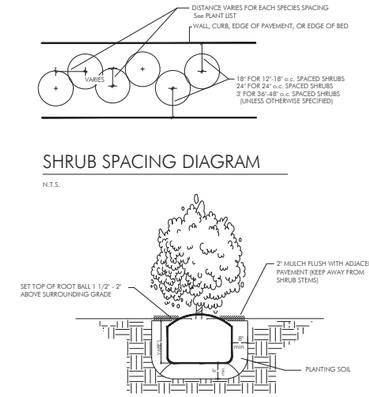
BATTEN DETAIL B
N.T.S.

PLANTING & BRACING DETAIL FOR LEANING/CROOKED PALMS
N.T.S.



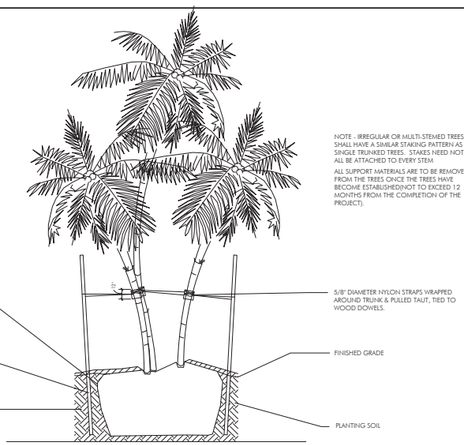
PLAN VIEW

ROOT BARRIER INSTALLATION DETAIL
N.T.S.

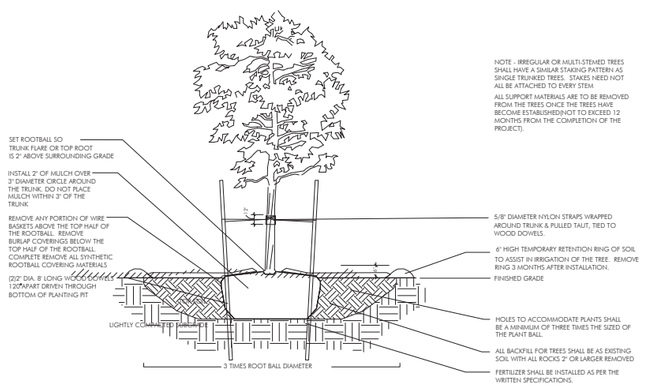


SHRUB SPACING DIAGRAM
N.T.S.

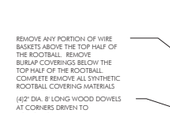
SHRUB INSTALLATION DETAIL
N.T.S.



MULTI-TRUNKED TREE/PALM BRACING DETAIL
N.T.S.



PLANTING & BRACING DETAIL UNDER 3 1/2" CALIPER
N.T.S.



DETAIL A
N.T.S.

BATTEN DETAIL B
N.T.S.

PLANTING & BRACING DETAIL OVER 3 1/2" CALIPER
N.T.S.

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C O R P . I D # 0 0 0 0 0 2 6 6

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Date: 2019.10.08 12:56:37 -04'00'

△	DATE	REVISION

DWG. TITLE
PLANTING NOTES SPECIFICATIONS, AND DETAILS

SCALE
AS SHOWN

PROJECT NO.
2018-24

DATE
08-07-19

SHEET NUMBER
LA-102

IRRIGATION MATERIALS LIST

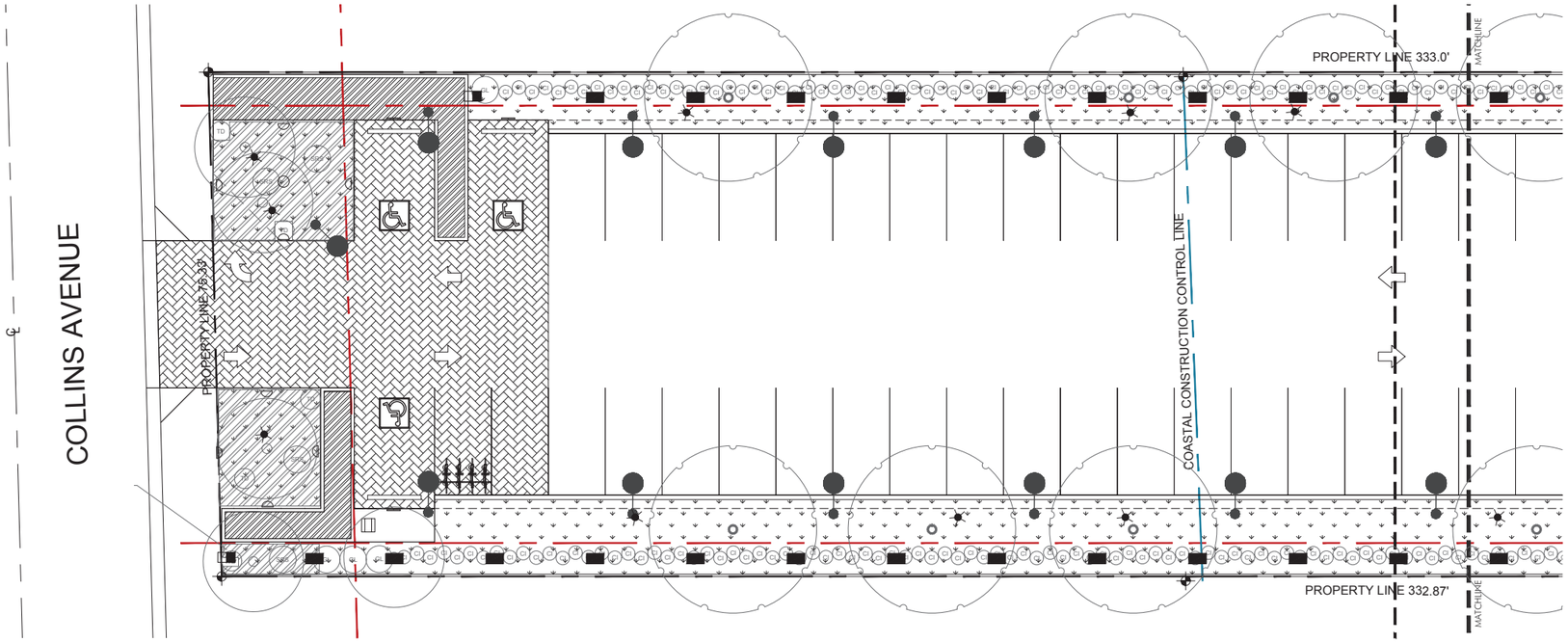
KEY	ITEM	QTY.
———	PVC laterals shall be Class 200 PVC (sized as shown on plans)	as required
—— ——	MAIN shall be Class 200 PVC	as required
= = = =	PVC sleeves shall be Class 200 PVC (sized double the width of the pipe running through it)	as required
	Flexible PVC or Polypipe (for swing joints)	as required
WM	WATER METER (See Civil Plans)	1
EC	Electric Controller RAINBIRD ESP-Me Series Controller	1
△	Rainbird RSD Series Rain Sensor (locate in area of free rainfall)	1
	RAINBIRD 200-PESB 2" Electromechanical Solenoid Control Valve	as required
	Irrigation Control Wire	as required
	RAINBIRD Spray Heads 1800 @ 30 PSI Series w/MPR nozzles 6" pop-up in grass areas 12" pop-up on risers in shrub beds	as required
	15-sst (1.21 gpm)	
	15-cst (1.21 gpm)	
	15-est (.61 gpm)	
	9-sst (1.73 gpm)	
	10-F (1.58 gpm)	
	10-TQ (1.18 gpm)	
	10-H (.79 gpm)	
	10-T (.53 gpm)	
	10-Q (.39 gpm)	
	5-F (.41 gpm)	
	5-TQ (.33 gpm)	
	5-H (.20 gpm)	
	5-T (.13 gpm)	
	5-Q (.10 gpm)	
	RAINBIRD 1300A-F Adjustable Flood Bubbler 1300A-F (1.5 gpm)	as required

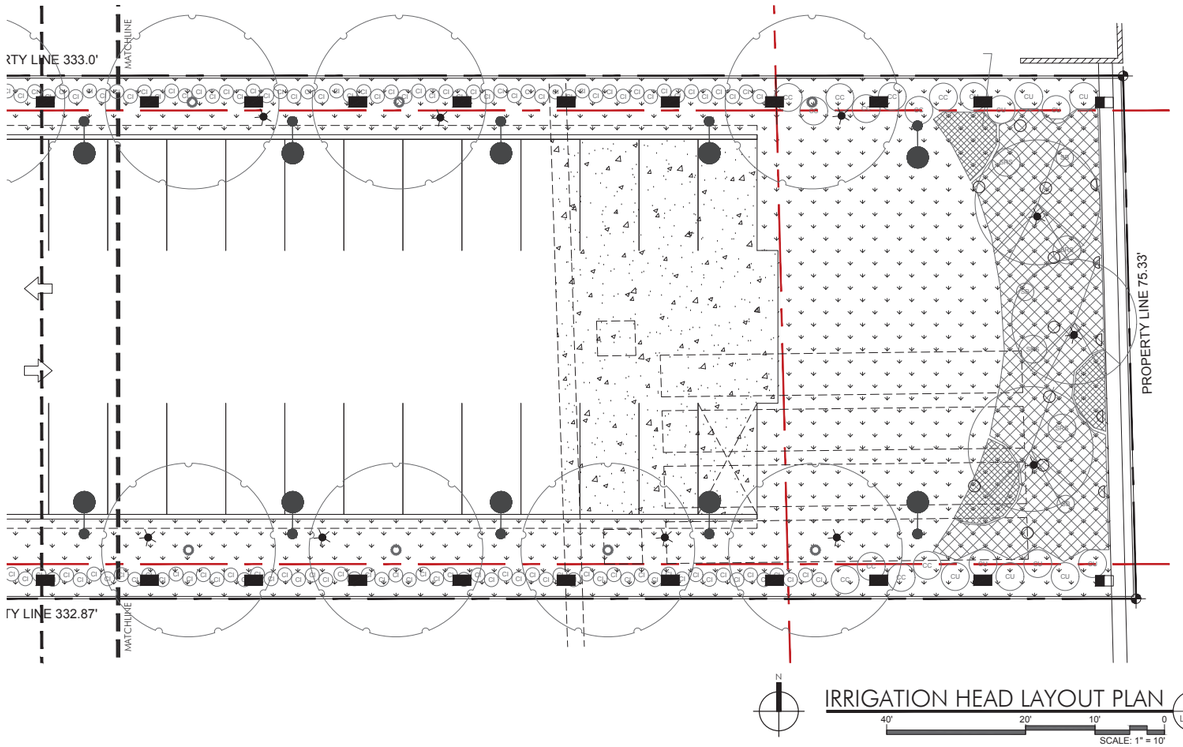
LATERAL PIPE SIZING

The Contractor is responsible to properly size all laterals. All laterals shall be sized according to the following schedule. Total gallonage per pipe section shall be calculated be adding the GPM per head for every head downstream of the pipe.

PIPE SIZING CHART

SIZE	GPM
¾"	0-8 GPM
1"	8-14 GPM
1¼"	14-24 GPM
1½"	24-32 GPM
2"	32-50 GPM
2½"	50-75 GPM
3"	60-110 GPM
4"	110-190 GPM





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Date: 2019.10.08 13:41:01 -04'00'

△	DATE	REVISION

DWG. TITLE
IRRIGATION PLAN

SCALE
AS SHOWN

PROJECT NO.
2018-24

DATE
08-07-19

SHEET NUMBER
LA-201

GENERAL NOTES:

1. SCOPE OF WORK: The Contractor shall furnish all labor, machinery, tools, supplies, and equipment as necessary to construct and provide an operating system, as indicated in the Plans. The work shall include, but not be limited to, furnishing materials (pipe, valves, sprinkler heads, fittings, controllers, electrical, wire and fittings, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, backfilling, compaction, repair of road or pavement surfaces, controller and low voltage feed to the valves, clean-up, maintenance and guarantee, and as-built plans.

2. Contractor shall coordinate with General Contractor or other pertinent Contractors on the job to insure that sleeves are provided and installed under hard surfaces to allow access to all areas to be irrigated. All sleeves shall be constructed of Class 200 PVC. Bury all sleeves a minimum of 18" below the surface. Sleeve to be double the size if the pipe running through it. Sleeve shall extend 24" past the edge of pavement into the area to be irrigated.

3. GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

4. REPAIR UTILITIES: The Contractor shall be responsible to verify the location of all utilities by hand excavation or other appropriate measures before performing any work that may result in damage to utilities structures, or property. The Contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to his operations. All costs involved in disruption of service and repairs due to negligence on part of the Contractor shall be his responsibility.

5. AS-BUILT DRAWINGS: Prints of the plans will be supplied to the Contractor for recording "as-built" information. Immediately upon installation of any work which deviates from what is shown on the Plans, the Contractor shall clearly indicate such changes in red pencil on the prints. Such changes shall include, but not be limited to, changes in (1) materials; (2) sizes of material; (3) location; and (4) quantities.

6. The entire installation shall fully comply with all applicable local and state codes and ordinances. The Contractor shall take out all required plumbing and electrical applications and permits, arrange for all necessary inspections and shall pay all fees and expenses in connection with same as part of work under the contract.

7. UNIT PRICES: The successful bidder shall furnish, to the Owner, a unit price breakdown for all materials. The Owner may at his own discretion, add to or delete from the materials, using the unit price breakdown submitted to and accepted by the Owner.

8. MAINTENANCE PERIOD: The irrigation system shall be maintained for a period of 90 days after final acceptance of installation. Maintenance shall include checking of the system 2 times per week. Contractor shall be responsible to replace/repair any broken or malfunctioning parts of the system including those damaged by accidents or vandalism. Repairs shall be made immediately at the time of inspection or when notified by the Landscape Architect.

9. The irrigation system shall provide 100% coverage with a minimum of 90% overlap of water spray.

10. The system is design to provide sprinkler precipitation rates that are nearly equal in each zone. Mixing of sprinklers with widely varying precipitation rates in a zone will not be accepted.

11. Irrigation mainline shall be made of Class 200 PVC and all laterals shall be Class 200 PVC, except flexible PVC (or Toro funny pipe) for flexible swing joint and Schedule 40 PVC risers for spray heads in shrub areas. Schedule 80 galvanized steel pipe is to be used for all above ground fittings. Pipe locations shall be adjusted in the field. When laying out mains and laterals, locate pipe near edges of pavement or against buildings wherever possible, to allow space for plant rootballs. Coordinate pipe locations with plantings. Bury all mains and laterals 18" min. below surface. Depth shall be measured to top of pipe.

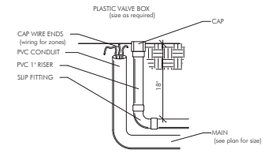
12. Keep pop-up sprinkler heads a minimum of 8" from edges of pavement and curbing, and heads on risers a minimum of 18", or as indicated in the pans.

13. All heads located in shrub or groundcover beds shall be installed on a riser as per details in the plans. All other heads shall be installed on a swing joint as per details in the plans.

14. Place irrigation control wire in conduit in the same trench as mains and under the main. ASI wire shall be #14 or larger solid copper U.L. approved underground direct burial cable and shall be continuous with no splices from controller to solenoid valve.

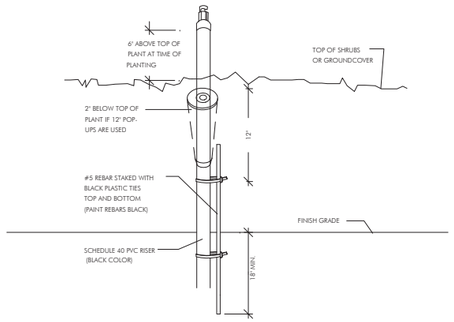
15. Valve locations are schematic and shall be adjusted in the field. Each valve shall be in a separate valve box (10" x 16") min.). When grouping valve boxes in grass or groundcover areas, set boxes a minimum of 12" apart to allow grass or groundcover to grow between them. When possible, hide valve boxes in shrub beds, a minimum of 12" from edge of beds. Set all valve boxes, concrete or plastic, in ground with cover flush with finish grade, and level, with a minimum of 6" of pea gravel at the bottom of the box, with at least 2" of clearance from the bottom of the valve to the top of the gravel.

16. TESTING: Notify the Landscape Architect in writing when testing will be conducted. Conduct test in the presence of the Landscape Architect. After all PVC assembly is completed the lines shall be flushed to insure that no rocks, sand, or other foreign debris remains in the lines. The mains shall be filled with water and all outlets shall be capped and plugged. The main shall be pressurized to 100 PSI for a minimum of one hour. No section of the main will be approved if the pressure drops more than 5 PSI at the end of the one hour period. Leaks shall be repaired immediately and the system shall be re-tested until found satisfactory by the Landscape Architect.



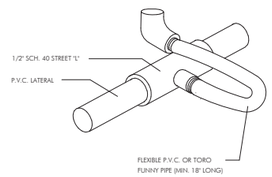
DETAIL OF STUB-OUT FOR FUTURE USE

N.T.S.



SPRINKLER ON RISER DETAIL FOR SHRUB AREAS

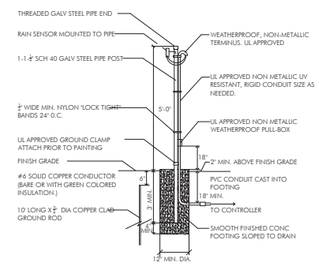
N.T.S.



FLEXIBLE SWING JOINT DETAIL

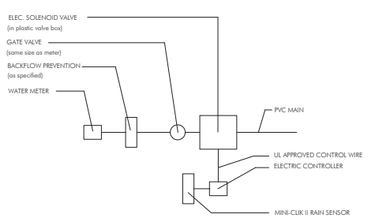
N.T.S.

NOTE:
ALL WIRE CONNECTIONS SHALL BE APPROVED WATERTIGHT CONNECTIONS.
FINISH ENTIRE ASSEMBLY, EXCEPT FOR EQUIPMENT, WITH FLAT BLACK ACRYLIC ENAMEL PAINT.
PRIME METALLIC SURFACES WITH ZINC CHROMATE PRIOR TO FINISHING.



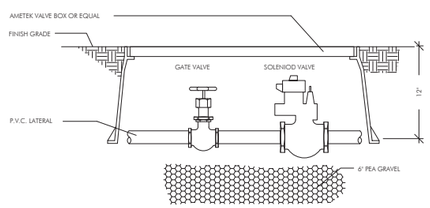
RAIN SENSOR DETAIL

N.T.S.



CONNECTION TO METER DETAIL

N.T.S.



TYPICAL SOLENOID VALVE ASSEMBLY

N.T.S.

BEILINSON GOMEZ
ARCHITECTURE
ARCHITECTURE AAC001062
JOSE L. GOMEZ AR0015416
8101 BISCAYNE BLVD.
SUITE 309
MIAMI FL 33138-4664
TEL. (305) 559.1250
FAX (305) 551.1740
beilinsonarchitectspa.com

GSLA DESIGN
GARDNER + SEMLER
LANDSCAPE ARCHITECTURE
WWW.GSLADESIGN.COM
17670 NW 78th AVE., SUITE 214
MIAMI, FL 33015
P 305.392.1016 F 305.392.1019
CORP. ID#00000266

6605 COLLINS AVENUE
6605 COLLINS AVENUE
MIAMI BEACH, FL 33141

Digitally signed by Taylor Koehl Semler
DN: c=US, st=Florida, l=Miami, ou=Landscape Architecture LA 6667205, o=GSLA Design Inc, cn=Taylor Koehl Semler, email=Koehl@gsladesign.com
Date: 2019.10.08 13:01:38 -04'00'

DATE	REVISION

DWG. TITLE
IRRIGATION NOTES SPECIFICATIONS, AND DETAILS

SCALE
AS SHOWN

PROJECT NO.
2018-24

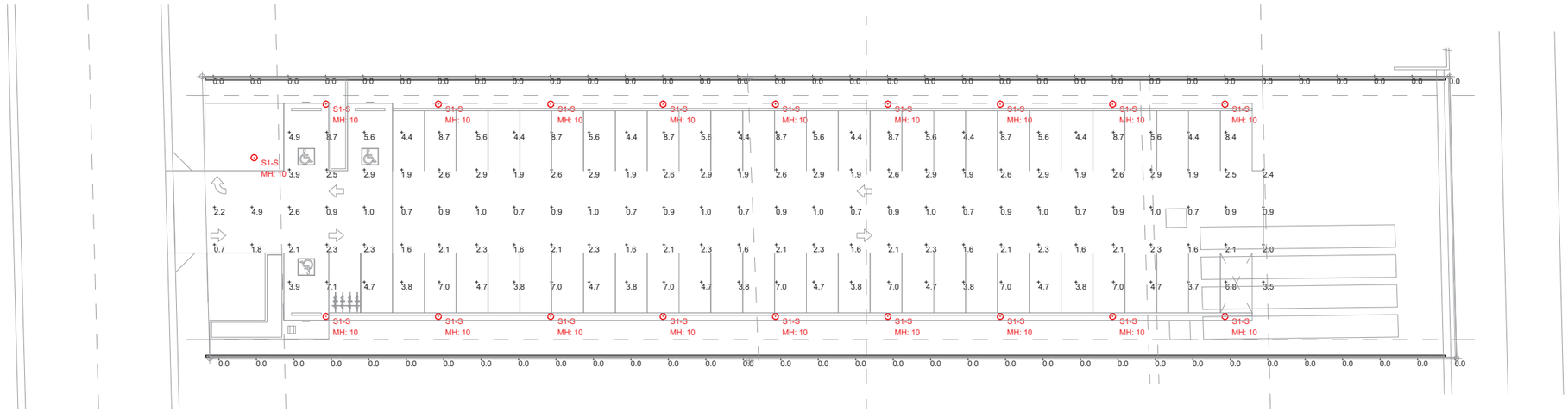
DATE
08-07-19

SHEET NUMBER
LA-202

6605 COLLINS LOT

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MFR	CATALOG NUMBER	VOLTS	LAMPS	WATTS	MOUNTING	DIMMING (If Req)	REMARKS
S1-S	LED AMBER STREET LIGHT WITH 180º BACKSHIELD	ANP	BVA2001-P117LD4-D-T3-AMB-HSS180-XX-FINISH (MOUNTED ON VALMONT POLE #0908-30404TE-XX-FINISH)	UNV	LED	117W	10' POLE		NOTE 1, NOTE 2, NOTE 3



Photometrics Calculation Software Generated Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
⊙	19	S1-S	SINGLE	3912	3912	1.350	114.2	114.2

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Property Line - North	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
Property Line - South	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
Site	Illuminance	Fc	3.32	8.7	0.7	4.74	12.43

6605 COLLINS LOT

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MFR	CATALOG NUMBER	VOLTS	LAMPS	WATTS	MOUNTING	DIMMING (If Req)	REMARKS
S1-S	LED AMBER STREET LIGHT WITH 180° BACKSHIELD	ANP	BVA2001-P117LD4-D-T3-AMB-HSS180-XX-FINISH (MOUNTED ON VALMONT POLE #0908-30404TE-XX-FINISH)	UNV	LED	117W	10' POLE		NOTE 1, NOTE 2, NOTE 3

NOTE 1: ADVISE FINISH

NOTE 2: ADVISE MOUNTING ARM

NOTE 3: MOUNTED ON VALMONT 10' ALUMINUM DIRECT-BURIAL POLE #0908-30404TE-XX-FINISH

FOR QUESTIONS PERTAINING TO THIS FIXTURE SCHEDULE PLEASE CONTACT SANDY LANGNER @ LIGHTING DYNAMICS (954) 214-4296; SLANGNER@LIGHTINGDYNAMICS.COM

LIGHTING DYNAMICS INCORPORATED

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions. This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions utilizing current industry standard lamp ratings in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and other variable field conditions.

NOTES:

No.	Revision/Issue	Date
4	PHOTOMETRIC STUDY	10/08/19
3	PHOTOMETRIC STUDY	10/07/19
2	PHOTOMETRIC STUDY	08/28/19
1	PHOTOMETRIC STUDY	08/07/19

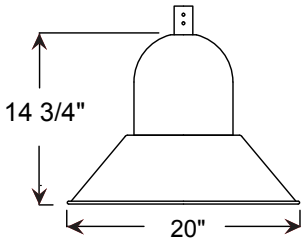
LIGHTING DYNAMICS, INC.
7835 West Commercial Blvd.
Tamarac, FL 33351
(954) 944-0286
www.lightingdynamics.com

Project Name and Address

6605 COLLINS LOT
Lighting Study - Site
Miami Beach, FL

FILE P:\PROJECTS\2019\AUGUST
CLIENT TWR Engineers

Project	6605 Collins Lot	Sheet	L1
Date	10/08/19		
Scale	1/16" = 1'-0"	DRAWN BY	RH / SR



Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

Specifications

Material:
All parts are durable 356 cast aluminum and high strength aluminum spinnings. All hardware provided shall be stainless steel or zinc plated steel.

Fixture Mounting:
Pendant Mount: Pin mount to tenon. Fits 3" and 4" poles.

Drivers:
Universal voltage 120-277 is standard. 0-10V dimming is standard for LED platforms.

See page 2 for LED engine and driver specifications.

Electrical:
Approximately 12" of pull wire extends from luminaire. Additional pull wire provided for post mount arms and wall mounts.

Finish:
A polyester powder coat high quality finish is electro-statically applied and baked at 430° for exceptional durability and color retention. Products undergo an intensive five-step cleansing and pretreatment process for maximum paint adhesion.

Marine grade finish provides superior salt, humidity and UV protection. This coating withstands up to 3000 hours of continuous salt spray, comes with a 5-year warranty and is available in either a textured or gloss surface.

Modifications:
Consult factory for custom or modified designs.

BVA2001 - LED

Dark Sky Friendly.

Weight: 6.5 lbs
EPA: 0.86
BUG: *See table below

Catalog Logic

BVA2001	P078LD4	D	T5	40K	- PC -	PA1613	- 72
Luminaire Series	Light Source & Wattage	Dimming	Optic	CCT	Accessories	Mounting	Finish

Catalog Number

1	2	3	4	5	6	7
BVA2001		D						

1 LIGHT SOURCE & WATTAGES

P029LD4	(29w Platform; 400ma Driver)
P046LD4	(46w Platform; 400ma Driver)
P078LD4	(78w Platform; 400ma Driver)
P117LD4	(117w Platform; 400ma Driver)

2 DIMMING

D (Dimming)

See page 2 table for LED engine and driver specs, voltage and dimming protocols.

3 OPTICS

T2 (Type II)
T3 (Type III)
T5 (Type V)

4 COLOR TEMPERATURE (CCT)

27K	(2700K)
30K	(3000K)
35K	(3500K)
40K	(4000K)

5 ACCESSORIES

HSS90	(90° House Side Shield, polished)
HSS120	(120° House Side Shield, polished)
4ST36	(3 Ft, 1 1/4" Ridged Stem & Canopy)
PEND-CH3	(3 Ft Pendant Chain & Canopy)
***EMG-LED20HV**	(20w, High Voltage LED Emergency Driver, remote placement, for use with Platforms and Towers, 78w or less)
HLMSPC-06	(High-Low Motion Sensor/Photocell; 15' - 30' Sensor Mounting Height)
HLMSPC-10	(High-Low Motion Sensor/Photocell; 8' - 15' Sensor Mounting Height)
PA-BF	(Post Arm Ball Fitter)
PA-BFS	(Post Arm Ball Fitter w/Swivel)
PC	(Button Photo Cell)
SP	(Surge Protector, 10kA & 10kV)
TLPC	(Twist Lock photo cell & receptacle)
TL	(Twist Lock receptacle only)
TL5	(5-pin Twist Lock receptacle)
TL7	(7-pin Twist Lock receptacle)

***For Emergency lumen output data, see Resources section at www.ANPlighting.com.**

6 MOUNTING SOURCE

Post Mount Arms *See Page 3 for Style/Size		Wall Mount Arms *See Page 3 for Style/Size	
PA0413	**PA6213**	**WM0413**	**WM5163**
PA1613	**PA8453**	**WM1613**	**WM5603**
PA1753		**WM1763**	
PA2023		**WM1773**	
PA2313		**WM2313**	
PA2613		**WM3003**	
PA3113		**WM3203**	
PA3213		**WM3553**	
PA3533		**WM4513**	
PA5153		**WM5143**	
Column Mount *See Page 3 for Style/Size			
CM Column Mount			

7 FINISHES

Standard Grade	Marine Grade		Standard Grade	Marine Grade	
40	**NA**	Raw Unfinished	**53**	**100**	Copper Clay
41	**101**	Black	**56**	**109**	Silver
42	**102**	Forest Green	**61**	**106**	Black Verde
43	**114**	Bright Red	**70**	**118**	Painted Chrome
44	**107**	White	**71**	**105**	Painted Copper
45	**112**	Bright Blue	**72**	**108**	Textured Black
46	**123**	Sunny Yellow	**73**	**125**	Matte Black
47	**120**	Aqua Green	**76**	**121**	Textured Architectural Bronze
49	**NA**	Galvanized	**77**	**127**	Textured White
50	**111**	Navy	**78**	**124**	Textured Silver
51	**103**	Architectural Bronze	**10**	**130**	Aspen Green
52	**104**	Patina Verde	**11**	**131**	Cantaloupe
12	**133**	Lilac	**13**	**132**	Putty

Consult factory for additional paint charges and availability

*BUG RATING TABLE

B1-U0-G1	**P046LD4NT340K**
B1-U0-G1	**P046LD4NT540K**
B3-U0-G1	**P078LD4NT340K**
B2-U0-G2	**P078LD4NT540K**
B3-U0-G2	**P117LD4NT340K**
B4-U0-G2	**P117LD4NT540K**

07302018

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

LED PERFORMANCE

PLATFORM

LED Wattage	CCT	Typical Luminous Flux	System Wattage	Typical Efficacy
29W	2700K	2670	30w	89
	3000K	2670	30w	89
	3500K	3209	30w	107
	4000K	3465	30w	116
46W	2700K	4004	46w	87
	3000K	4004	46w	87
	3500K	4814	46w	105
	4000K	5197	46w	115
78W	2700K	7041	80w	88
	3000K	7041	80w	88
	3500K	8464	80w	106
	4000K	9138	80w	114
117W	2700K	10561	120w	88
	3000K	10561	120w	88
	3500K	12696	120w	106
	4000K	13707	120w	114

PLATFORM SPECIFICATION:

- Efficacy ranges from 80-116 lumens per watt
- Customized lens precisely directs the light
- Operating temperature of -30C to 55C
- Life: L70 is 60,000 hours
- PLATFORM CCT: 2700K, 3000K,3500K, and 4000K
- TOWER CCT: 4000K
- CRI: >70
- Parallel circuitry ensures consistent light output in the event of single LED failure

PLATFORM DRIVER SPECIFICATION:

- Operates at 400mA
- Dimmable down to 10%
- Built in surge protection
- Constant current output 50/60HZ
- Driver Efficiency > 90% power factor above 99%
- 120 – 277 volts
- 0-10V dimming protocol is standard

PLATFORM LISTINGS

- Fully compliant with the RoHS Directive
- Certifications: ETL
- Rated IP65 with an optional IP66 rating

WARRANTY

See www.ANPlighting.com for complete fixture warranty.

LED warranty information

- 7 year limited warranty* on Platform LED engines
- 5 year limited warranty* on Platform Drivers

*Limited Warranty: A typical year is defined as 4380 hours of operation. Failure defined as more than 10% of the total platform LED's not operating.

ACCESSORIES

HSS90 & HSS120

4ST36

PEND-CH3

EMG-LED20HV

HLMSPC-06 & HLMSPC-10

PA-BF

PA-BFS

PC

TLPC

TL

TL5 & TL7

07302018

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

POST MOUNTS | See Post Arm Section on Website for Specification Sheets and additional post arms.

PA0413 28” x 38 3/8”

PA1613 26 1/2” x 55 1/8”

PA1753 26 1/8” x 36 3/4

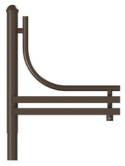
PA2023 21 1/4” x 16”

PA2313 24” x 28 1/2”

PA2613 39 1/2” x 46”

PA3113 25” x 15 1/4”

PA3213 21 7/8” x 26 1/8”



PA3533 29” x 38 1/2”

PA5153 14 1/4” x 19 3/4”

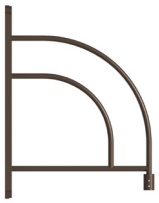
PA6213 22 3/4” x 26 1/2”

PA8453 70” x 37 1/2”

COLUMN MOUNT

CM 5 3/4” SQ x 3 1/2” H

WALL MOUNTS | See Wall Mount Section on Website for Specification Sheets and additional wall mount arms.



WM0413 26 1/2” x 38 5/8”

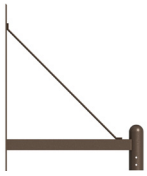
WM1613 28 3/8” x 57”

WM1763 28 3/4” x 42”

WM1773 20” x 30”

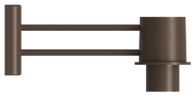
WM2313 23” x 31 7/8”

WM3003 11” x 8 7/8”



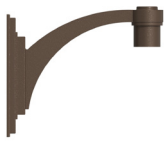
WM3203 18” x 24”

WM3553 28 1/4” x 36 1/2”



WM4513 17” x 8”

WM5143 14 3/4” X 16 1/2”



WM5163 15 3/4” x 13 3/4”

WM5603 17 7/8” x 14”

07302018

1-800-548-3227
ANPlighting.com

valmont STRUCTURES ALUMINUM

8′ TO 30′ ROUND TAPERED EMBEDDED (DIRECT BURIAL) POLES

- 8' to 30' mounting heights.
- Tenons, brackets, and arms designed for single or multiple luminaire mounting.
- Luminaires may be mounted on tenons, brackets or shaft may be drilled to manufacturer's mounting specifications.

SPECIFICATIONS

All aluminum alloys shall comply with metallurgical and mechanical properties set forth in the Aluminum Association Standards.

Shaft: The shaft shall be spun tapered from all new seamless 6063 alloy aluminum tubing and shall be heat treated to produce a T6 temper. Each shaft shall have a minimum of 6" straight length at the top. Top straight section serves as a slipfitter for a luminaire or for the hub of the appropriate Valmont bracket or tapered arm. Alternatively, the straight section may be drilled for mounting luminaires. The shaft shall be cone tapered to the base diameter. All Valmont shafts shall be polished with fine grain aluminum oxide cloths, resulting in a high quality circumferential satin brushed finish. After finishing, each pole shall be wrapped for protection in shipment.

Direct Embedment: Unless otherwise specified, the length of the embedded section of a 4" diameter shaft shall be 3', 5" and 6" shall be 4', 7" and 8" shall be 5'. A 1-1/2" diameter grommetted wire inlet hole located 1' 6" below grade shall be included. The embedded section of the pole shall be coated inside and outside with zinc rich paint.

Special Finishes: Natural anodize, duranodic, or painted finishes may be specified as an addition to the satin brushed finish, if required. All aluminum parts and accessories shall receive a finish similar to that specified.

Ground Lug: Each pole shall include a 5/16″-18 tapped provision for ground connector.

Handhole: Available as an option.

Anti-Rotation Device: Available as an option.

CATALOG LOGIC

Feet and Inches	Top Diameter	Base Diameter	Wall Thickness	Shape of Shaft	Base or Mounting	Fixture Mounting	Finishes	Options
				T	E			

Feet & Inches*	Diameter*	Wall Thickness*	Shape of Shaft	Base or Mounting	Fixture Mounting	Finishes	Options
0708 – 8′ **0908** – 10′ **1108** – 12′ **1308** – 14′ **1508** – 16′ **1708** – 18′ **1908** – 20′ **2408** – 25′ **2908** – 30′	TOP DIAMETER IN INCHES **30** – 3″ **40** – 4″ **45** – 4-1/2″ BASE DIAMETER* IN INCHES **40** – 4″ **50** – 5″ **60** – 6″ **70** – 7″ **80** – 8″	THICKNESS IN 32NDS OF AN INCH **4** – 4/32″or 0.125″ Wall **5** – 5/32″or 0.156″ Wall **6** – 6/32″or 0.188″ Wall	**T** – Tapered Round	**E** – Embedded	**D1** – 1@90° **D2** – 2@180° **D3** – 3@120° **D4** – 4@90° **D5** – 2@90° **D6** – 3@90° **P2** – 2-3/8″x 4 Tenon **P9** – Other Tenon (Please Specify)	POLYESTER POWDER **DBL** – Black **DBR** – Bright Red **DCG** – Charcoal Gray **DDB** – Dark Bronze **DMB** – Med Bronze **DNA** – Natural Alum **DSB** – Steel Blue **DSS** – Sandstone **DTG** – Dark Green **DWH** – White **SC** – Special Color (Please Specify) ANODIZED **204** – Clear Natural **311** – Light Bronze* **312** – Med Bronze* **313** – Dark Bronze* **335** – Black* * Duranodic Anodize BRUSHED **SBF** – Satin Brushed Finish	See Accessory Section (Please Specify with Code #)

* For available Base Diameter, Wall Thickness and Length Combinations, see Dimensional Load Data Table that follows.

Customer Approval:

signature date

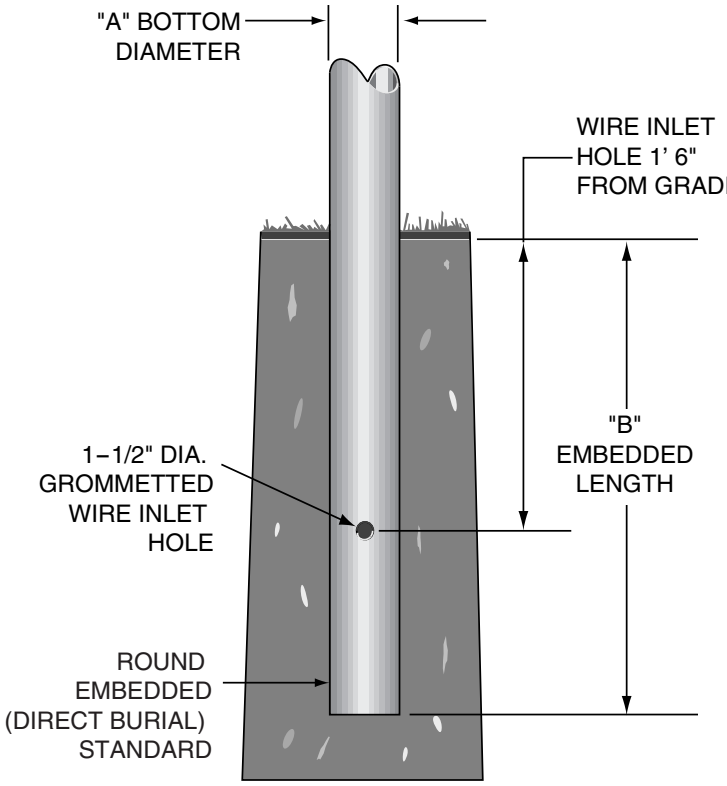
Job Name: _____ Quote: _____

Client Name: _____

Created By: _____ Date: _____

8′ TO 30′ ROUND TAPERED EMBEDDED (DIRECT BURIAL) POLES

ANCHOR BASE AND BOLT DETAIL



A BOTTOM DIAMETER	B* EMBEDDED LENGTH
4″	3′
5″	4′
6″	4′
7″	5′
8″	5′

* 5′ minimum embedded length for Canadian market.

DIMENSIONAL AND LOAD DATA

TYPICAL WEIGHT AND ALLOWABLE SIZE OF LUMINAIRES*							DIMENSIONS OF POLES					
NOMINAL MOUNTING HEIGHT	TYPICAL LUMINAIRE WEIGHT (LBS.)	EFFECTIVE PROJECTED AREA IN SQUARE FEET AT: 70 MPH	80 MPH	90 MPH	100 MPH	110 MPH	EXPOSED HEIGHT	OVERALL SHAFT LENGTH	TOP	BASE	WALL	MODEL NUMBER**
8′	75	19.1	14.4	11.1	8.8	7.1	7′8″	10′8″	3″	4″	.125″	0708- 30404TE
10′	75	14.3	10.6	8.1	6.3	5.0	9′8″	12′8″	3″	4″	.125″	0908- 30404TE
12′	75	11.0	8.0	6.0	4.5	3.5	11′8″	14′8″	3″	4″	.125″	1108- 30404TE
12′	75	18.5	13.8	10.5	8.3	6.6	11′8″	15′8″	3″	5″	.125″	1108- 30504TE
14′	75	8.5	6.0	4.4	3.2	2.4	13′8″	16′8″	3″	4″	.125″	1308- 30404TE
14′	75	14.8	10.8	8.2	6.3	5.0	13′8″	17′8″	3″	5″	.125″	1308- 30504TE
16′	75	7.1	5.0	3.5	2.4	1.7	15′8″	18′8″	3″	4″	.125″	1508- 30404TE
16′	75	12.0	8.6	6.4	4.8	3.8	15′8″	19′8″	3″	5″	.125″	1508- 30504TE
16′	75	15.3	11.1	8.4	6.5	5.1	15′8″	19′8″	3″	5″	.156″	1508- 30505TE
18′	75	9.7	6.7	4.9	3.6	2.7	17′8″	21′8″	3″	5″	.125″	1708- 30504TE
18′	150	12.2	8.7	6.4	4.9	3.8	17′8″	21′8″	3″	5″	.156″	1708- 30505TE
18′	150	19.1	14.1	10.8	8.5	6.9	17′8″	21′8″	4″	6″	.156″	1708- 40605TE
20′	75	8.2	5.5	3.8	2.6	1.9	19′8″	23′8″	3″	5″	.125″	1908- 30504TE
20′	75	10.4	7.2	5.1	3.7	2.8	19′8″	23′8″	3″	5″	.156″	1908- 30505TE
25′	150	10.5	7.1	5.1	3.8	2.9	24′8″	28′8″	4″	6″	.156″	2408- 40605TE
25′	150	13.5	9.4	6.9	5.3	4.2	24′8″	28′8″	4″	6″	.188″	2408- 40606TE
30′	150	11.1	7.5	5.3	4.0	3.0	29′8″	34′8″	4″	7″	.156″	2908- 40705TE
30′	150	16.7	12.0	9.1	7.0	5.5	29′8″	34′8″	4.5″	8″	.156″	2908- 45805TE

* EPA calculations are based on a 1.3 Gust Factor. Variations from sizes listed above, available upon inquiry at the factory. Satisfactory performance of lighting poles is dependent upon the pole being properly attached to a supporting foundation of adequate design. Valmont does not design or offer recommendations for foundations.
** Model number does not include mounting options or finish designation.