

CREIGHTON CONSTRUCTION AND MANAGEMENT, LLC

INDEX OF SHEETS											
Sheet Identification	Sheet Title										
	COVER										
	SURVEY										
SP-101	SITE PLAN										
SP-102	VEHICLE CIRCULATION PLAN										
SP-103	PERVIOUS / IMPERVIOUS EXHIBIT										
	CIVIL PLANS										
GI-001	LEGEND										
GI-002	CONSTRUCTION SPECIFICATIONS										
GI-003	GENERAL NOTES										
CG-101	EROSION AND SEDIMENT CONTROL										
CD-101	DEMOLITION PLAN										
CP-101	PAVING, GRADING, DRAINAGE AND UTILITY PLAN										
CP-501 - CP-504	ENGINEERING DETAILS										
CM-101	PAVEMENT MARKING AND SIGNAGE PLAN										
	LANDSCAPE PLANS										
LD-101	TREE DISPOSITION PLAN										
LP-001	LANDSCAPE NOTES										
LP-101	LANDSCAPE PLAN										
LP-501	LANDSCAPE DETAILS										
	ARCHITECTURAL PLANS										
A-120	FLOOR PLAN										
A-121	ROOF PLAN										
A-200-202	EXTERIOR ELEVATIONS										
PAGES 1-7	SIGN PLANS										
PH-01	PHOTOMETRIC PLAN										



PROJECT No. 11007.02 DATE: 05/14/2020





SITE AREA CALCULATIONS:	REQUIRED	PROPOSED	
IMPERVIOUS AREAS			
PROPOSED BUILDING (INCLUDES OVERHANGS AND FUEL CANOPY)	27,165 SF MAX	8,081	SF
VEHICLE USE AREAS (ASPHALT & CONCRETE PAVEMENT)	N/A	19,401	SF
SIDEWALKS/CONCRETE (INCLUDES 50% OF OVERALL 7,191 SF			
PERVIOUS PAVEMENT AREA)	_	7,642	SF
TOTAL IMPERVIOUS (SF)	35,315 SF MAX	35,124	SF
TOTAL IMPERVIOUS (%) PER SECTION 23.3-18.c	65%	64.6%	
PERVIOUS AREAS			
PERVIOUS PAVEMENT (CALCULATED AT 50% OF OVERALL 7,191 SF A	REA)	3,596	SF
LANDSCAPE PLANTING AREA	_	15,612	
TOTAL PERVIOUS AREAS (SF)		19,208	
TOTAL PERVIOUS AREAS (%)	35%	35.4%	

D

















T.O. CMU 22' - 0"
BUILDING MEDALLION
HEDULE
MANUFACTURER - COLOR
ILLIAMS - AESTHETIC WHITE - SW 7037 - LRV 46
ORAL STONE BY CULTURED STONE - FOSSIL REEF
ORAL STONE BY CULTURED STONE - CHAMPAGNE
ILLIAMS - SEAL SKIN SW 7675
ILLIAMS - SEAL SKIN SW 7675
ZE
ORKS OR THOMPSON AWNING - TO MATCH IT COLOR W/REAR GUTTER CONNECTIONS
D CORP EASTMAN WHITE - PY - 25

HIGH CANOPY 30' - 0''

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Description Schedule
PROJECT W 2191107 2191107 0ATE 05.082020 DATE DA, AC CHECKED GA





GAS CANOPY LEFT 7 SCALE: 1/4" = 1'-0"









DUMPSTER LEFT ELEVATION 2 SCALE: 1/4" = 1'-0"





DUMPSTER REAR ELEVATION 4 SCALE: 1/4" = 1'-0"

		EXTERIOR N	IATERIALS SCHEDULE
COLOR	NO.	MATERIAL	MANUFACTURER - COLOR
	MR-1	MEMBRANE ROOFING	DUROLAST - WHITE
	ST-1	PAINTED STUCCO	SHERWIN WILLIAMS BALANCED BEIGE - SW 7037 - LRV 46
	ST-2	PAINTED STUCCO	SHERWIN WILLIAMS - AESTHETIC WHITE - SW 7035 - LRV 73
	V-1	VENEER STONE	EQUAL TO CORAL STONE BY CULTURED STONE - FOSSIL REEF
	V-2	WATERTABLE/ SILL	EQUAL TO CORAL STONE BY CULTURED STONE - CHAMPAGNE
	P-3	EXTERIOR HOLLOW METAL DOORS, FRAMES, TRASH ENCLOSURE GATE, GRAVEL GUARDS AND LIGHT POLES	SHERWIM WILLIAMS - SEAL SKIN SW 7675
	P-6	EXTERIOR BOLLARDS	SHERWIM WILLIAMS - SEAL SKIN SW 7675
	S-1	ALUMINUM STOREFRONT GLAZING, CAP FLASHING, DOWNSPOUTS & SCUPPERS	DARK BRONZE
	C-1	PREFINISHED ALUMINUM CANOPY	AWNING WORKS OR THOMPSON AWNING - TO MATCH STOREFRONT COLOR W/REAR GUTTER CONNECTIONS
	FC-1	FUEL CANOPY FASCIA	REYNOBOND CORP EASTMAN WHITE - PY - 25

PRELIMINARY ENGINEERING PLANS



RELATIONSHIP BETWEEN NGVD 1929 AND NAVD 1988

DATUM	DIFFERENCE	ELEV.
NGVD 1929	+1.52 FEET	1.52'
NAVD 1988		0.00'

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON NAVD 1988 DATUM

LAND DESCRIPTION:

THE SOUTH 220 FEET OF THE EAST HALF (1/2) OF TRACT 5 OF THE SUBDIVISION OF THE WEST HALF (1/2) OF SECTION 21, TOWNSHIP 44 SOUTH, RANGE 43 EAST, PLAT BOOK 5, PAGE 12, LESS THE SOUTH 20 FEET THEREOF, LESS THE EAST 25 FEET THEREOF AND LESS THAT PARCEL TAKEN FOR 10TH AVENUE AND STATE ROAD 9 (I-95) RIGHT-OF-WAY, BEING PARCEL No. 520.1-R SECTION 93220-2405, ALL OF THE PUBLIC RECORDS OF PALM BEACH COUNTY. FLORIDA, TO WIT.

7-ELEVEN 41361 1900 10th AVENUE NORTH LAKE WORTH, FLORIDA 33461

FOR



LOCATION MAP SECTION 21, TOWNSHIP 44 S, RANGE 43 E FOLIO #38434421020050030

	IND	EX OF SHEETS						
Sheet Sequence No.	Sheet Identification	Sheet Title						
		COVER						
1		SURVEY						
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CITY OF LAKE WOR PALM BEACH COUN FLORIDA DEPARTM FLORIDA DEPT OF I SOUTH FLORIDA W

FEMA FLOOD ZONE:

THE PROPERTY IS LOCATED WITHIN FLOOD ZONE X AS SHOWN ON F.I.R.M. NUM. 12099C0589F, BEARING A MAP EFFECTIVE DATE OF10/05/2017.

THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



PREPARED FOR: CREIGHTON CONSTRUCTION AND MANAGEMENT, LLC 900 S.W. PINE ISLAND ROAD, SUITE 202, CAPE CORAL, FL 33991

PERMIITTING AGENCIES	PERMIT NO.	EXPIRES
ТН		
ITY LAND DEVELOPMENT		
ENT OF ENVIRONMENTAL PROTECTION		
HEALTH IN PALM BEACH COUNTY		
ATER MANAGEMENT DISTRICT		



	Gener	ral Symbols		Paving a	nd Grading		Abbreviations	Abbreviations Continued				
Existing	Proposed	Description	Existing	Proposed	Description	General						
			*~~	*~	Elow Directional Arrow	AADT	Annual Average Daily Traffic	NO.	Number			
ν. Ψ	ν ψ •	Centerline & Baseline of Survey or Construction		 £	Pavement Marking Arrows	ABAN	Abandon	PC	Point Of Curvature			
		Building Access (ADA)	1	1	Ston Bar	ADJ	Adjust	PCC	Point Of Compound Curvature			
\triangleright	\triangleright	Building Access (NON-ADA)				APPROX.	Approximate	P.G.L.	Profile Grade Line			
(A.1) 24' WIDE	(A-1) 24' WIDE	Driveway Turnout Identification (Per FDOT Index 515) w/	<u>*******</u>	<u>.)</u>	Concrete Sidewalk	A.C.	Asphalt Concrete	PI	Point Of Intersection			
		Drive Width	• <u>;•;•;•;</u>			ACCM PIPE	Asphalt Coated Corrugated Metal Pipe	POC	Point On Curve			
(CR-A)	(CR-A)	Sidewalk Curb Ramp (Per FDOT Index 304)	7777		Pavement Area	BIT.	Bituminous	РОТ	Point On Tangent			
		Proposed Section Marker			Existing Pavement/Concrete/Landscape Removal Area	BC	Back Of Curb	PRC	Point Of Reverse Curvature			
25	20	Flag Pole			Milling And Resurfacing	BD.	Bound	PROJ	Project			
A	٨	GPS Point	626263	800000	Accessibility Code	BL	Baseline	PROP	Proposed			
	<u> </u>	Hav Bales			Soil Tracking Prevention Device	BLDG	Building	РТ	Point Of Tangency			
		Meil Pox	100000	Drainage	>/Iltilities	ВМ	Benchmark	PVC	Point Of Vertical Curvature			
۳ ۲ 00		Main Box	Evisting	Bronosed	Description	во	By Others	PVI	Point Of Vertical Intersection			
5.0	5.02			rioposed		BOS	Bottom Of Slope	PVT	Point Of Vertical Tangency			
5.20	5.20	Minor Contour Elevation	6	G		BR.	Bridge	PVMT	Pavement			
Ū.	Ū	Parking Meter			Yard Drain	CAP	Corrugated Aluminum Pipe	PWW	Paved Water Way			
PL	Æ	Property Line			Exfiltration Trench	СВ	Catch Basin	R	Radius Of Curvature			
	14.48	Grade Elevation			Catch Basin With Filter Fabric Insert	CBCI	Catch Basin With Curb Inlet	R&D	Remove And Dispose			
	14.98				Curb Type 5	cc	Cement Concrete	RCP	Reinforced Concrete Pipe			
	14.48	Top Of Curb Elevation/Pavement Elevation			Curb Type 6	CCM		RD	Road			
— —	⊕ -	Soil Test Boring Hole			Pipe Culvert - Mitered End Section	CEM		RDWY	Roadway			
€ B.M. NO. 1/2	€ B.M. NO. 112	Survey Bench Mark			Pipe Culvert - Straight Endwall		Curb Inlet	REM	Remove			
Line Types			C	C	Pipe Culvert - U - Type Endwall			RET	Retain			
Existing	Proposed	Description	© E G D S	© E G D S	Manhole - Communication, Electric, Gas, Drn, San Sew			REFWALL				
		= County Bound					Contenine Corrugated Metal Pipe	ROW				
				<u> </u>	Valve Box - Gas, San. Sew, Water, Non-Potable Water		County		Railroad			
	///////////////////////////////////////	Demolition Line	Ĺ	1	22.5 degree Bend	CONC	Concrete	R&R	Remove And Reset			
		Easement Line	Ĺ	1	45 degree Bend	CONT	Continuous		Shouldor			
		Property Line	Г	Ľ	90 degree Bend	CONST	Construction		Sower Manholo			
+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	Limited Access Line/Non-Vehicular Access		•	Utility Crossing	CR GR	Crown Grade		Street			
-++++++++++++++	+++++++++++++++++++++++++++++++++++++++	Railroad	<u>``</u> _	Ŭ-	Fire Hydrant	DHV	Design Hourly Volume	STA	Station			
		Right Of Way		•	Proposed Bacteriological Sampling Point	DI	Drop Inlet		Stopping Sight Distance			
		Canal Or Drainage Ditch	PS#	PS#	Pump Station	DIA	Diameter	SW	Sidewalk			
			GT	GT	Grease Trap	DIP	Ductile Iron Pipe		Tangent Distance Of Curve/Truck %			
		Shore Line	ST	ST	Septic Tank	DWY	Driveway		Tangent			
<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	Tree Line		@		ELEV (OR EL.)	Elevation	TEMP	Temporary			
C _X	C	Aerial Communication Line			Monitoring Well	ЕМВ	Embankment	тс	Top Of Curb			
CC	— — — c—	Underground Communication Line			Water Well	EOP	Edge Of Pavement	тоѕ	Top Of Slope			
SD _x	SD	Underground Storm Drain Line (Double Line 24" And Over			Sanitary Sewer Cleanout	EXIST (OR EX)	Existing	TSV	Tapping Sleeve and Valve			
SS _v	SS	Underground Sanitary Line	BFP	BEP		EXC	Excavation	ТҮР	Typical			
E	F		(444)	(NN)	Back Flow Preventor	F&C	Frame And Cover	UP	Utility Pole			
						F&G	Frame And Grate	VAR	Varies			
		Underground Electric	Ľ	Ľ	Electric Handhole	FDN.	Foundation	VERT	Vertical			
W _x	W	Underground Water Line	ELEC	ELEC	Electric Meter	FLDSTN	Fieldstone	VC	Vertical Curve			
NPW _x	NPW	Underground Non Potable Water Line		W	Water Meter	GAR	Garage	WCR	Wheel Chair Ramp			
FM x	FM	Underground Force Main		X		GD	Ground	WIP	Wrought Iron Pipe			
	—X= ^{12'} =X—	Gate	\longrightarrow	\rightarrow	Guy wire	GI	Gutter Inlet	wм	Water Meter/Water Main			
XX	<u> </u>	- Chain Link Fence	00	00	Light Pole	GIP	Galvanized Iron Pipe	X-SECT	Cross Section			
		Wood Fonce		•••	Relocated Or Adjusted Light Pole	GRAN	Granite	-				
V	v		φ	Ģ	Wood Power Pole	GRAV	Gravel					
	AA				Concrete Utility Pole	GKU	Guard	-				
SF	SF	Silt Fence	۲	۲	Traffic Signal Pole (Concrete, Wood, Metal)		High Density Polyethylene					
***************************************		Staked Turbidity Barrier	<u></u>	Ť	Pedestrian Signal Head (Pole Or Pedestal Mounted)		Headwall	-				
		Turbidity Barrier	-0-	<u> </u>	Post Mounted Sign	НМА	Hot Mix Asphalt	1				
		Guard Rail	.	+	Street Sign		Horizontal	-				
		Roadway Centerline	ģ	ä	High Mast Lighting Tower		Hydrant	-				
		2 - 4 Skip		M	Controller Cabinet (Base Mounted)	INV	Invert	1				
					Controller Cabinet (Pole Mounted)	JCT	Junction	-				
			<	<	Traffic Signal Head (Span Wire Mounted)	L	Length Of Curve	1				
		в- 10 Skip		-1	Traffic Signal Head (Pedestal Mounted)	LB	Leach Basin	1				
		10 - 30 Skip	•	• •	Traffic Signal Head (Mast Arm Mounted)	LP	Light Pole	1				
		10 - 10 - 20 Skip		N: 623025.4322	Coordinate values shown on proposed improvements	LT	Left	1				
		Curb		E- 850262 1796	are relative to the coordinate values indicated on the	MAX	Maximum	1				
		Curb And Gutter		L. 000202.1700	Right-of-Way, property corners or reference monument	мв	Mailbox	1				
	Lan	ndscaping				MEG	Match Existing Grade					
Existing	Proposed	Description				мн	Manhole					
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>	Buch				MIN	Minimum					
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~					NIC	Not In Contract	J				
<u>6</u>	ಟ											
Å	*	Palm Tree										

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CONSTRUCTION SPECIFICATIONS

Section 20 - General Specifications Paving Grading Drainage and Earthwork 20. General

- 20.1. It is the intent of these specifications to describe the minimum acceptable technical requirements for the materials and workmanship construction of site improvements for this project. Such improvements may generally include, but not to be limited to, clearing, grading, paving, removal of existing pavement storm drainage, water ines and sanitary sewers.
- 20.2 It is the intent that the Florida Department of Transportation (FDOT) "Standard Specifications for Road and Bridge Construction: (current edition) together with "Supplemental Specifications to the Standard fications for Road and Bridge Construction" (current edition), and the FDOT Roadway and Traffic Design Standards (current edition) be used where applicable for the various work, and that where such wording therein refers to the State of Florida and its Department of Transportation and personnel, such wording is intended to be replaced with the wording which would provide proper terminology; thereby making such "Standard Specifications for Road and Bridge Construction" together with the "FDOT Roadway and Traffic Design Standards" as the "Standard Specifications" for this project. If within particular section, another section, article or paragraph is referred to it shall be part of the Standard Specifications also. The Contractor shall abide by all local and State laws, regulations and building codes which have jurisdiction in the area.
- 20.3. The Contractor shall furnish all labor, materials and equipment and 22.3. Pipe backfill requirements for pipe backfill crossing roads or parking perform all operations required to complete the construction of a paving areas shall be as defined in the section 125-8, of the Standard and drainage system as shown on the plans, specified herein, or both, It Specifications. Pipeline backfill shall be placed in 6 inch lifts and is the intent to provide a complete and operating facility in accordance compacted to 100% of the standard proctor (AASHTO T–99 specifications) 3 with these specifications and the construction drawings. The material 22.4, Location of drainage structures shall govern, and pipe length may and equipment shown or specified shall not be taken to exclude any other incidentals necessary to complete the work,
- 20.4. All labor, materials, and methods of construction shall be in strict 22.5. Distance and lengths shown on plans and profile drawings are accordance with the plans and construction specifications and the accordance with the plans and construction standards adopted by the unit of 22.6. Filter fabric shall be Mirafi, Typar or equal conforming to section 985 which has jurisdiction and responsibility for the Where conflicts or omissions exist, the jurisdictional government construction. government Engineering Department's standards shall govern 23. Asphalt Paving substitutions and deviations from plans and specifications shall be 23.1. Where new asphalt meets existing asphalt the existing asphalt shall permitted only when written approval has been issued by the Engineer
- 20.5. Guarantee all materials and equipment to be furnished and/or installed by the Contractor under this contract, shall be guaranteed for a period of (I) one year from the date of final acceptance thereof, against defective materials, design and workmanship. Upon receipt of notice from the owner of failure of any part of the guaranteed equipment or materials, during the guarantee period, the affected part or materials shall be replaced promptly with new parts or materials by the contractor, at no expense to the owner. In the event the Contractor fails to make necessary replacement or repairs within (7) seven days after potification by the owner, the owner may accomplish the work at the expense of the contractor.

21 Earthwork

- 21.1. All areas within the project limits shall be cleared and grubbed prior 23.4. Limerock base shall be prepared, compacted and graded and shall to construction. This shall consist of the complete removal and disposa of all trees, brush, stumps, roots, grass, weeds, rubbish and all other obstructions resting on or protruding through the surface of the existing ground to a depth of 1. All work shall be in accordance with section 110 of the Standard Specifications.
- 21.2 None of the existing limerock material from demolished pavement is to be incorporated in the new limerock base, unless noted in plans. The existing limerock material from demolished pavement may be incorporated into the stabilized subgrade / subbase, or stabilized shoulder.
- 21.3. Fill material shall be classified as A-I, A-3, or A-2-4 in accordance with AASHTO N-145 and shall be free from vegetation and organic 23.5. Limerock base material shall be placed in maximum 6" lifts. Bases material. Not more than 12% by weight of fill material shall pass the no. 200 sieve
- 21.4. All fill material in areas not to be paved shall be compacted to 95% of the maximum density as determined by AASHTO T-99
- to establish conformance with the specifications and suitably for the uses intended. The Contractor shall notify the Engineer at least 24 nours prior to the time he will be ready for an inspection or test. The 24. Concrete Construction Contractor shall follow City and County inspection procedures. The 24.1. Concrete sidewalk shall be in accordance with section 522 of the Contractor shall not proceed with any phase of work dependent on an inspection or test of an earlier phase of work, prior to that test or nspection passing. The Contractor shall be responsible for providing certified material test results to the Engineer of record prior to the release of final certification by the Engineer. Test results must include, but may not be limited to, densities for subgrade and limerock, utilities, excavation, asphalt gradation reports, concrete cylinders, etc.
- 21.6. When encountered, muck shall be completely removed from the center line (10) ten feet bevond the edge of pavement each side. All such material shall be replaced by approved granular fill.
- 21.7. When encountered within drainage swales, hardpan shall be removed to full depth for a width of (5) five feet at the invert and replaced with granular materials.
- 21.8. All underground utilities and drainage installations shall be in place prior to subgrade compaction and pavement construction.
- 21.9. Ground adjacent to roadway/pavement having runoff shall be graded Section 30 Water distribution and sanitary sewer force mains. (2) two inches lower than the edge of pavement to allow for the 30. Materials placement of sod.
- 21.10. Site grading elevations shall be within 0.1' of the required elevation for non paved areas and all areas shall be graded to drain without pondina.
- 21.11. The Contractor shall perform all excavation, fill, embankment and grading to achieve the proposed plan grades including typical road sections side slopes and canal sections. All work shall be in accordance with section 120 of the Standard Specifications. If material is required in excess of that generated by the excavation, the ntractor shall supply this material as required from off-site
- 21.12. A 2" blanket of top soil shall be placed over all areas to be sodded or seeded and mulched within the project limits unless otherwise indicated

on the plans

21.13.Sod shall be St. Augustine unless otherwise indicated on the plans, and shall be placed on the graded top soil and watered to insure satisfactory condition upon final acceptance of the project. 22.Drainage

22.1. Inlets - all inlets shall be the type designated on the plans, and shall be constructed in accordance with section 425 of the Standard 30.2. Ductile iron pipe for water distribution mains shall conform to 30.18. Sewage force main valves shall be plug valves which shall be of the Specifications. All inlets and pipe shall be protected during construction to prevent siltation in the drainage systems by way of temporary plugs and plywood or plastic covers over the inlets. The entire drainage system shall be cleaned of all debris prior to final acceptance.

- 22.2. Pipe specifications: the material type is shown on the drawings by one of the following designations:
- RCP = reinforced concrete pipe, ASTM designation C-76, section 941 of the Standard Specifications.
- CMP = corrugated metal (aluminum) pipe, ASTM designation M-196
- CMP (smooth lined) = corrugated metal aluminum pipe, (smooth lined) ASTM designation M-196.
- SCP = slotted concrete pipe, sections 941 and 942, of the Standard Specifications
- PVC = polyvinyl chloride pipe.
- PCMP Specifications
- Corrugated High Density Polyethylene Pipe (HDPE) (12 Inches to 60 Inches), shall meet the requirements of FDOT Specification section 948-2.3.
- - have to be adjusted to accomplish construction as shown on these plans.
- referenced to the inner walls of structures.
- of the Standard Specifications
- be saw cut to provide a straight even line. Prior to removing curb or gutter, the adjacent asphalt shall be saw cut to provide a straight even
- 23.2. Internal asphalt paving constructed on existing sandy soils shall be constructed with a 12" subgrade, compacted to a minimum density of 100% maximum density as determined by AASHTO T-99. The compacted subgrade shall be constructed in the limits shown on the plans. All subgrade shall have an LBR of 40 unless otherwise noted.
- 23.3. Asphaltic concrete surface course shall be constructed to the limits shown on the plans. The surface course shall consist of the thickness and type asphaltic concrete as specified in the plans. All asphaltic shall be in accordance with sections 320, 327, 330, 334, 336, 337, 337, 338, 339 and 341 of the Standard Specifications.
- be in accordance with section 200 of the Standard Specifications. All 30.10. Water distribution system restraint: all fittings and specific pipe joints limerock shall be compacted to 98% per AASHTO T-180 and have not shall be restrained as outlined below: less than 70% of carbonates of calcium and magnesium unless otherwise designated. The Engineer shall inspect the completed base course and the Contractor shall correct any deficiencies and clean the base course prior to the placement of the prime coat A tack coat will also be required if the Engineer finds that the primed base has become excessively dirty or the prime coat has cured to the extent of losing bounding effect prior to placement of the asphaltic concrete surface course. The prime and tack coats shall be in accordance with section 300 of the Standard Specifications.
- greater than 6" shall be placed in two equal lifts. If, through field tests, the Contractor can demonstrate that the compaction equipment can achieve density for the full depth of a thicker lift, and if approved by the joints shall be restrained as outlined below engineer, the base may be constructed in successive courses of not more than 8 inches (200 mm) compacted thickness.
- 21.5. All material of construction shall be subject to inspection and testing 23.6. Asphalt edges that are not curbed shall be saw cut to provide a straight even line to the dimensions shown on plans.

 - Standard Specifications and in accordance with F.D.O.T. Roadway and Traffic Design Standards, index no. 310. Concrete sidewalk shall be 4" thick, unless otherwise not and constructed on compacted subgrade. with 1/2" expansion joints placed at a maximum of 75', unless otherwise noted on plans. Crack control joints shall be 5' on center. All concrete sidewalks that cross driveways shall be 6" thick, unless otherwise noted on plans.
 - 24.2. Sidewalk Curb ramps hall be in accordance with F.D.O.T. Roadway and Traffic Design Standards, index no. 304.
 - 24.3. Concrete curb shall be constructed to the limits shown on the plans. The concrete shall have a minimum compressive strength of 2500 PSI at 28 days and shall be in accordance with section 520 of the Standard Specifications. Concrete curbing shall be in accordance with F.D.O.T. Roadway and Traffic Design Standards, index no. 300.
 - 244
 - Note: If materials list here on are in conflict with utility owner, material 30.15.Retainer glands for DIP shall conform to ANSI/AWWA C111/A21.11 owner requirements shall govern.
 - 30.1. All water main pipe, including fittings, shall be color coded or marked using blue as a predominant color to differentiate drinking water from med or other water. Underground plastic pipe shall be solid-wall blue pipe, shall have a co-extruded blue external skin, or shall be white pipe with blue stripes incorporated into, or applied to, the pipe wall: and underground metal or concrete pipe shall have blue stripes shall have continuous stripes that run parallel to the axis of the pipe 30.17. Fire hydrants shall be Mueller centurion traffic type A-423 with 5 1/4" 33.2. The pressure test shall be witnessed by a representative of the utility that are located at no greater than 90-degree intervals around the pipe,

and that will remain intact during and after installation of the pipe. If tape or paint is used to stripe pipe during installation of the pipe, the tape or paint shall be applied in a continuous line that runs parallel to the axis of the pipe and that is located along the top of the pipe; for pipes with an ernal diameter of 24 inches or greater, tape or paint shall be applied in continuous lines along each side of the pipe as well as along the top of the pipe.

ANSI/AWWA standard C151/A21.51 latest revision. "ductile iron pipe centrifugally cast in metal molds or sand-lined molds" with a minimum wall thickness of class 51 (pressure class 350) upless otherwise noted in the plans. Ductile iron pipe shall be cement lined and seal coated in accordance with ANSI/AWWA standard C104/A21.4 latest revision. The pipe shall be adapted for use with class 250 fittings for all sizes. Water main shall be colored blue in accordance with Florida State Statutes

30.3. Ductile iron pipe for sewage force mains shall conform to ANSI/AWWA standard C151/A21.51 latest revision, "ductile iron pipe centrifugally cast in metal molds or sand- lined molds" with a minimu wall thickness of class 51 (pressure class 350) unless otherwise noted in the plans. Ductile iron pipe shall be interior ceramic epoxy lined and exterior coated with the manufacturer's coating system (Protecto 401 ceramic epoxy with a minimum dry film thickness of 40 mils and an outside coating of either coal tar epoxy or asphalt). Cement mortared

= perforated cmp, section 945, of the Standard 30.4. All pipe & fittings on the lift station sites shall be ductile iron conforming to the same specifications as above for sewage force mains except that flanged ductile iron pipe & fittings shall be used inside valve pits and wet wells. Flanged pipe and fittings shall conform to ANSI/AWWA C115/a21.15 latest revision and ANSI/AWWA C110/A21.10 latest revision. The following thickness classes shall be 30.20.Plug valves are to be installed with the seat pointed towards the adhered to: 4" - 12" - class 52, 14" & larger - class 51.

1.5. PVC pressure pipe for sizes 4" through 12" and shall conform to 30.21. Swing check valves for water, sewage, sludge, and general service ANSI/AWWA standard C900 latest revision. PVC pressure pipe shall be made from class 12454-a or class 12454-b virgin material and conform with the outside diameter of cast iron pipe with a minimum wall thickness of dr series 18. Ultra violet degradation or sun bleached pipe will be cause for rejection. Water main shall be colored blue in accordance with Florida State Statutes. Force main shall impregnated with green pigment. Reuse main shall be impregnated with purple pigment.

- 30.6. Ductile iron fittings for water distribution mains shall conform to ANSI/AWWA standard C110/A21.10 latest revision. Fittings 4" and 31.Service connection: arger shall be cement lined and seal coated in accordance with ANSI/AWWA standard C104/A21 4 latest revision Water Main fitting shall be colored blue in accordance with Florida state statutes.
- 30.7. Cast iron and ductile iron fittings for sewage force mains shall conform to ANSI/AWWA standard C110/A21.10 latest revision. Fittings 4" and larger shall be coated in accordance with the requirements of ductile iron pipe for sewage force mains.
- to ANSI/AWWA standard C111/A21 11 latest revision. Mechanical joint or push-on joint to be rubber gasket compression-type. Special fitt and joints shall be considered for specific installation subject to the 31.4. Curb stops shall be Ford v63-44w-x" latest revision or approved approval of the engineer
- 30.9. Joints for PVC pressure pipe shall be bell and spigot push-on rubber 31.5. Meter stops shall be 90 degree lockwing type and shall be of bronze gasket type only. No solvent weld or threaded joints will be permitted.
 - Joint restraint
 - Push-on P.V.C. EBAA iron series 1600
 - Push-on DIP EBAA iron series 1700
- tr-flex by U.S. Pipe or
- flex ring by American
- Fittings w/ DIP EBAA iron series 1100 megalug
- Fittings w/ P.V.C. EBAA iron series 2000 megalug
- Length of restrained pipe shall be as indicated on restrained joint pipe detail. (see water & sewer detail sheet)

30.11. Sewage force main system restraint: all fittings and specific pipe

- Joint restraint
- Push-on P.V.C. EBAA iron series 1600 Push-on DIP EBAA iron series 1700
- tr-flex by U.S. Pipe or
- flex ring by American
- Fittings w/ DIP EBAA iron series 1100 megalug
- Fittings w/ P.V.C. EBAA iron series 2000 megalug
- Length of restrained pipe shall be as indicated on restrained join pipe detail. (see water & sewer detail sheet)

30.12. Water distribution valves shall be gate valves, iron body, fully resilient seat bronzed mounted non-rising stem, rated at 200 PSI and conforming to ANSI/AWWA C509 latest revision, and shall have mechanical ioints.

- 30.Testing:
 30.Testing:
 31. Testing:
 32. Testing:
 33. Testing:
 33.1. Before any physical connections and acceptance for operation to the approval of the engineer.
 33.1. Before any physical connections and acceptance for operation to the approval of the engineer.
 33.1. Before any physical connections and acceptance for operation to the approval of the engineer.
 33.1. Before any physical connections and acceptance for operation to the approval of the engineer.
 33.1. Before any physical connections and acceptance for operation to the approval of the engineer. latest revision or approved equal
- 30.12.2. Tapping valves shall be Mueller T-2360 or approved equal. 30.12.3. Gate valves 3" or less shall be Nibco T-133 or T-136 with nalleable hand wheels or approved equa
- 30.13. Tapping sleeves shall be Mueller H615, Clow F- 2505 or approved equa
- 30.14. Valve boxes shall be U.S. foundry 7500 or approved equal painted
- blue with the designation "water".

latest revision. All glands shall be manufactured from ductile iron as listed by underwriters laboratories for 250 psi minimum water pressure rating. Clow corporation model f-1058, standard fire protection equipment company or approved equal.

30.16. Dresser couplings shall be regular black couplings with plain gaskets for galvanized steel pipe. They shall be dresser style 90. No substitutions allowed.

owner and the engineer of record. internal valve opening or approved equal. Pumper nozzle to be 18" from

finished grade. All hydrants to be installed with control valve. Retainer 33.3. For water distribution pipes, sampling points shall be provided by the glands are preferred for restraining. Fire hydrant shall comply with contractor at the locations shown on the plans. ANSI/AWWA C502 latest revision. Fire hydrants shall be painted in 33.4. For water distribution pipes, disinfection and bacteriological testing accordance with NFPA #291 or per agency standards having jurisdiction. Blue raised reflective pavement marker (rpm) shall be used to identify fire hydrant location. The placement of the rpm to be at the shall be in accordance with ANSI/AWWA C651-14 (water main bacteriological tests). Maximum distance between sampling points shall be as follows: centerline of the outside roadway lane. Transmission mains: every 1200 feet

non-lubricated, eccentric type with resilient faced plugs, port areas for valves 20 inches and smaller shall be at least 80% of full pipe area. Port area of valves 24 inches and larger shall be at least 70% of full pipe area. The body shall be of semi-steel (ASTM A-126 C1.b) and shall

have bolted bonnet which gives access to the internals of the valve. Seats shall be welded overlay of high nickel content or a stainless steel plate locked in the body cavity. If a plate is used, it shall be replaceable 40.General: through the bonnet access. Bearings shall be permanently lubricated of 40.1. Manhole, valve box, meter box and other structure rim elevations stainless steel, bronze or Teflon lined, fiber glass backed Duralon, within the limits of construction are to be adjusted to conform to plan within the limits of construction are to be adjusted to conform to pla Bearing areas shall be isolated from the flow with grit seals. Valves shall grades proposed in these plans. If no other individual cost item is have packing bonnets where the shaft protrudes from the valve and the included in the contract schedule for a particular structure adjustment. I be self-adjusting chevron type which can be replaced 40.2. Distance and lengths shown on plans and profile drawings are without removing the bonnet. All nuts, bolts, springs and washers shall referenced to the center of structures be stainless st

30.19. Plug valves shall be designed for a working pressure of 150 PSI the valve and actuator shall be capable of satisfactory operation in either direction of flow against pressure drops up to and including 100 PSI (for plug valves over 12" in diameter). Valves shall be bubble tight in both 41.1. All PVC sewer pipe and fittings shall be non-pressure polyvinyl directions at 100 psi differential. Plug valves over 12" in diameter shall have worm gear operators. The operating mechanism shall be for

upstream flow, when specified.

shall be of the outside lever and spring or weight type, in accordance with ANSI/AWWA C 508 latest revision swing-check valves for waterworks service. 2" through 24" NPS, unless otherwise indicated, with full-opening passages, designed for a water-working pressure of 150 PSI they shall have a flanged cover piece to provide access to the disc.

30.22. High density polyethylene pipe (HDPE) for water distribution mains shall conform to AWWA C906 standard, latest revision. Pipes shall be color-coded blue, minimum 40 feet standard lengths.

31.1. Service saddles shall be fusion bonded plastic coated ductile iron

(ASTM A536) with stainless steel straps, saddles shall be double strap 41.5. Manholes are to be sealed with type II sulphate resistant cement or 31.2. Service lines shall be polyethylene (PE 3408), 200 p.s.i rated, DR9. 41.6. Joints for bell and spigot ductile iron pipe and fittings shall conform Pipe joints shall be of the compression type totally confined grip seal

- and coupling nut. 30.8. Joints for bell and spigot ductile iron pipe and fittings shall conform 31.3. Corporation stops shall be manufactured of brass alloy in 41.7. PVC clean-outs to have screw type access plug. Long radius wye
 - accordance with ASTM B-62 with threaded ends, as manufactured by Ford ballcorp, catalog # 1100 or approved equal. operations

 - construction in accordance FV63-777W' latest revision with ASTM B-62. Meter stops shall be closed bottom design and resilient "0" ring sealed against external leakage at the top. Stops shall be equipped with a meter coupling nut on the outlet sides, as manufactured by Ford or 42. Installation: approved equal

municipal water distribution system," and ANSI/AWWA C605-xx latest

lines. A 14 gauge multi-strand wire shall be attached to all nonconductive water mains to facilitate location. An extra 4 feet of wire

shall be provided at all valves, blow-offs, hydrants, etc. The wire shall

32.6. Pipe deflection shall not exceed 50% of the maximum deflection

32.7. A continuous and uniform bedding shall be provided. Backfill material

32.8. All valves shall be installed with adjustable cast iron valve boxes with

the word "water" or "sewer", as applicable, cast in the cover, U.S.

existing water mains are made, the complete water system shall be

bacteriological results and pressure test results must be submitted to

and approved by, the engineer, utility owner, and health department.

Hydrostatic testing of new mains shall be performed at a minimum

starting pressure of 150 PSI for two hours in accordance with

ANSI/AWWA C600-05 (hydrostatic test). The pressure test shall not

vary more than 5 PSI during the test. The allowable leakage during the

pressure test shall be less than the number of gallons per hour as

In which L equals the allowable leakage in gallons per hour. S equals

length of pipe (linear feet), d equals nominal diameter of pipe (inches)

and p equals the average test pressure (pounds per square inch

water system shall be disinfected in accordance with the ANSI/AWWA

gauge). Maximum length of test pipe section should be 2000 fee

C651-05 (water main bacteriological tests).

flushed, pressure tested and disinfected. Copies of passing

shall be placed in accordance with the plans and specifications

32.5. Detector tape shall be laid 18 inches above all water and

32. Installation: 32.1. Where restrained pipe joints are required due to fittings, appurtenances, etc., pipe material shall be DIP

be tested for continuity at the pressure te

recommended by the manufacturer.

revision standard.

PVC and 30" cover for DIP

foundry or approved equal

determined by the formula:

L = (sd(p)1/2)/148,000.

revision.

Branch mains: every 1000 feet Isolated mains < 1000 feet: 2 sample points

Isolated mains > 1000 feet: 3 sample points

. Materials:

Note: If materials list here on are in conflict with utility owner, material owner requirements shall govern.

chloride (PVC) pipe conforming to ASTM D 3034 SDR 26 with push-or rubber gasket joints.

41.2. Ductile iron pipe shall conform to ANSI/AWWA C151/A21.51-xx latest revision, "ductile iron pipe centrifugally cast in metal molds or sand-lined molds" with wall thickness class 51 for 8" and above, class 52 for 4" and 6", unless otherwise directed by the engineer. Ductile iron pipe shall be epoxy lined or coated with the manufacturer's coating system as approved by the engineer of record and the local municipality or utility owner. In either case, the engineer's review and approval is required for either alternative prior to construction. Cement mortared linings are not appropriate for this application.

41.3. All ductile iron fittings shall conform to ANSI/AWWA standard C110/A21.10-xx latest revision. All fittings and accessories shall be epoxy lined and as manufactured or supplied by the pipe manufacturer or approved equal

41.4. Manholes shall be precast per ASTM C 478 and in accordance with the plans and specifications

approved equal - no molding plaster.

to ANSI/AWWA standard C111/A21.11-xx latest revision. Mechanical ioint or push-on joint to be rubber gasket compression- type.

connections and fittings shall be used in order to access clean-out

41.8. Cleanouts shall be installed at all sewer services exceeding 75' in length (every 75') with a clean out at the property line, easement line, or 5' from a building. The contractor shall coordinate the location of the building cleanout (5' from the building) and elevation of the end of the r service with the building plumbing contractor. Cleanouts shall be the same size as the service lateral in which they are installed.

42.1. PVC sewer pipe shall be laid in accordance with ASTM D 2321 and the Uni-Bell plastic pipe association's "recommended practice for the installation of PVC sewer pipe."

42.2. DIP shall be installed in accordance with ANSI/AWWA C-600-xx latest revision

32.2. All PVC pipe shall be installed in accordance with the uni-bell plastic pipe association "guide for installation of PVC pressure pipe for 42.3. Pipe to manhole connection to be Fernco neoprene boot couplings with stainless steel accessories or approved equal.

42.4. Manholes shall be set plumb to line and grade on firm subgrade 32.3 All DIP shall be installed in accordance with ANSI/ C600-xx latest providing uniform bearing under the base

42.5. All openings and joints shall be sealed watertight.

32.4. All water mains shall typically be laid with a minimum 36" cover for 42.6. Two coats of Koppers 300-m, first red, second one black, shall be applied to the inside of all manholes and shall be applied in accordance with the manufacturer's specifications (16 mils per coat). Coating as required by utility owner or engineer shall be applied to the outside of the manhole. The interior coats shall be applied after sewer lamping of lines. After the application of each coat, the utility owner and engineer shall inspect the manholes. The inspection shall be scheduled a minimum of 48 hours prior to inspection.

43. Testing: Testing of gravity sewer mains and laterals shall be in accordance with the utility owner's minimum design and construction standards latest revision.

43.1 After construction of the sewer system the engineer may require a visual infiltration and/or exfiltration test to be performed on the entire system or any part thereof.

43.2 An air test may be substituted for the water exfiltration test upon

shall not exceed 100 gallons per inch of inside pipe diameter per mile per day for any section tested. No visible leakage shall be allowed 43.4. The installed sewers may require video inspections.



General Notes

This construction project may or may not include all items covered by these notes and specifications, i.e. paving, grading, drainage lines, water lines, or sanitary sewer lines See plans for detailed project scope. Notes and specifications on this sheet refer to paving, grading, drainage, water, and sanitary sewer, and are intended fo this projects scope of work and for reference purposes for other work items that may be required due to unforeseen 3.11. The contractor is to maintain existing signage during existing conditions or required remedial work.

1. Specific Site Notes

- 1.1. County and "City" in these notes refers to County and 3.12. The topographic survey included with this set of plans City in which project resides.
- 1.2. State in these notes refers to the State of Florida. 1.3. Existing topographic information in the plans is based on survey data and best available information. See project survey and notes on plan sheets regarding the ource of the topographic information.

2. Applicable Codes

- 2.1. All construction and materials shall conform to the standards and specifications of the city, county, and all other jurisdictional. State and national codes where applicable
- 2.2. In the event of a conflict between the general notes and construction specifications in these plans, and the contract documents and specifications in the specification booklet, the contractor shall submit written request for clarification.
- 2.3. All construction shall be done in a safe manner and in strict compliance with all the requirements of the Federal occupational safety and health act of 1970, and all State and jurisdictional safety and health regulations.
- 2.4. The contractor shall be required to comply with Federal, State, County, and City laws, codes, and regulations.
- 2.5. All handicap accessible areas to conform to the requirements of the Americans with Disabilities Act (ADA) State ADA codes and Florida Building Code ADA codes latest edition.
- 2.6 Trench safety act
- 2.6.1. All trench excavation shall be performed in accordance with chapter 90-96 of the laws of Florida (the trench safety act).
- 2.6.2. All trench excavation in excess of 5 feet in depth shall be undertaken in accordance with O.S.H.A. standard 29 cfr. Section 1926.650 subpart p.
- 2.6.3. The contractor shall submit with his contract a completed, signed, and notarized copy of the trench safety act compliance statement. The identifying the cost of compliance with the applicable trench safety codes
- 2.6.4. A trench safety system, if required, shall be designed by the excavation contractor utilizing a specialty engineer as required.

3. Construction Notes:

- 3.1. Contractor shall tie to existing grade by evenly sloping from closest proposed grade provided to existing grade at limits of construction, unless otherwis noted on the plans. If no limit of work line is indicated. slope to adjacent property line or right-of-way line, as applicable.
- 3.2. Unless otherwise indicated on the plans, all existing manholes, catch basins, meters and other structures, whether indicated on the plans or not shall be 3.17. Any known or suspected hazardous material found on adjusted to match the new grade, by the contractor.
- 3.3. The curb shall be sloped to accommodate the new pavement, catch basin and grate, and the surface flow nattorn
- 3.4. The contractor shall use care when cutting the existing asphalt pavement and during excavations, so that the existing catch basins and grates that are to remain will not be damaged.
- 3.5. The contractor shall maintain the roadway slope when resurfacing the roadway. The edge of pavement
- 3.6. The new sidewalk shall be constructed in accordance with the given elevations and at the proper slopes depicted in the specifications, details and standards. Existing driveways and other features shall be matched when possible as directed by the engineer
- 3.7. Radii shown are to the edge of pavement.
- 3.8. All bench mark monuments within the limits of 4.1. All utility / access easements to be secured prior to 6.1. It shall be the contractor's responsibility to arrange construction shall be protected and referenced by the
- 3.9. All excess material is to be disposed by the contractor within 72 hours.
- 3.10. In areas where the base is exposed by the milling operation, the contractor shall restore the base to its 4.3. All required governmental agency building permits to original thickness and structural capacity before paving over such areas. This includes but is not limited

content, composition, stability, and intended slope. If paving will not take place the same day the base is exposed and reworked, the base shall be sealed according to the governing standards and 4.5. Prior to the start of construction, the owner shall specifications. Any additional work resulting from the contractor's failure to protect the exposed base as stated above in order to restore the original structural capacity shall be the contractor's cost.

- construction operations, in order to facilitate emergency vehicle traffic.
- reflects pre-demolition conditions and does not reflect the site conditions after demolition. The contractor is fully and solely responsible in determining the required earthwork for the proposed development of the site. This includes, but is not limited to, any excavation/dredge and fill activities required at any phase of the project. The contractor shall use the final approved (released for construction) plans, surveys, geotechnical reports, and any other available information for determining the amount of excavation/dredging and filling required. Any quantities included in the approved 4.6. permits were estimated by the engineer for purposes. of obtaining the permit and under no circumstances shall be used by the contractor in lieu of performing
- their own earthwork calculations required for cost estimating and bidding the project. 3.13. The contractor shall be responsible for reading and
 - familiarizing themselves with any and all available geotechnical reports prepared by others and/or any recommendations written or implied by the geotechnical engineer for this project. The geotechnical conditions and recommendations outlined in these reports are in force and in full effect as part of the proposed improvements. The contractor is responsible for ensuring that all the work associated with this project is in compliance with the geotechnical engineer's recommendations. Keith and Associates, Inc. is not responsible for the suitability or unsuitability of the soils encountered. It is the contractor's responsibility to ensure that the means and methods of construction used can and will allow for the successful completion of the required site improvements.

3.14. The contractor shall ensure that the available geotechnical information is sufficient for his complete understanding of the soil conditions for the site. If additional geotechnical investigation is required by 5. Inspections / Testing: the contractor, this additional work shall be 5.1. considered incidental to the contract and no additional compensation shall be allowed.

- contractor shall also submit a separate cost item 3.15. The contractor shall be responsible for the repair and restoration of existing pavement, pipes, conduits, sprinkler heads, cables, etc., and landscaped areas damaged as a result of the contractor's operations and/or those of his subcontractors and shall restore at no additional cost.
 - 3.16. The contractor shall not bring any hazardous materials onto the project. Should the contractor require such for performing the contracted work, the contractor shall request, in writing, permission from the owner, city and engineer. The contractor shall provide the owner, city and engineer with a copy of the material safety data sheet (MSDS) for each hazardous material proposed for use. The project engineer shall coordinate with the owner and city prior to issuing written approval to the contractor.
 - the project by the contractor shall be immediately reported to the city and/or engineer, who shall direct the contractor to protect the area of known or suspected contamination from further access. The city and/or engineer are to notify the owner/engineer of the discovery. The owner/engineer will arrange for investigation, identification, and remediation of the 5.1. hazardous material. The contractor shall not return to the area of contamination until approval is provided by the engineer.
- shall match the new gutter lip per FDOT index 300. 3.18. The contractor shall contact the appropriate city 5.3. advance of the event to notify the city of construction start up, or to schedule all required tests and inspections including final walk-throughs.

4. Preconstruction Responsibilities

- construction contractor in the same way as public land corners. 4.2. No construction may commence until the appropriate permits have been obtained from all municipal, State, County, and Federal agencies and a pre-construction meeting has been conducted. 6.2.
 - be obtained by the contractor prior to any construction activity.

to restoring original degree of compaction, moisture 4.4. Contractor to coordinate construction scheduling for connection to the existing water and sewer lines with 6.4. the utility department that owns and/or maintains the water and sewer lines.

- submit an NPDES construction general permit (CGP) 6.5. The contractor shall maintain access to adjacent "notice of intent (N.O.I.) to use Generic Permit for storm water discharge from construction activities form (DEP form 62-621.300(4)(b)) to FDEP notices 7. Project Progress and Closeout center. The contractor will be responsible for (1) 7.1. During construction, the project site and all adjacent implementation of the storm water pollution prevention plan (SWPPP) that was required to be developed prior to NOI submittal, and (2) retention of records required by the permit, including retention of a copy of the SWPPP at the construction site from the date of project initiation to the date of final site stabilization. A "notice of termination (N.O.T.) of generic permit coverage" form (DEP form 62-621.300(6)) must be submitted to FDEP to discontinue permit coverage, subsequent to completion of construction. For additional information FDFP website http://www.dep.state.fl.us/water/ storm water/npdes.
- Prior to construction or installation, 5 sets of shop drawings shall be submitted for review as required for the following items listed below, but not limited to:
- Drainage: Catch basins, manholes, headwalls grates/tops, yard drains.
- Water: Fire hydrants, valves, backflow preventer, DDCV, meter box.
- Sewer: Manholes, lift stations (wetwell, hatches. valves, pump data, electrical panel)
- 4.0.1. Catalogue literature shall be submitted for 8.1. During the daily progress of the job, the contractor drainage, water and sewer pipes, fittings, and appurtenances.
- 4.0.2. Prior to submitting shop drawings to the engineer, the contractor shall review and
- any deviations from the engineer's plans or specifications
- 4.0.3. Individual shop drawings for all precast structures are required. Catalogue literature will not accepted for precast structures.
- Contractor to submit maintenance of traffic plan(s) in accordance with FDOT and County requirements, and submit for approval prior to beginning construction. 83

- The contractor shall notify in writing the owner, City, County, engineer of record, and any other governmental agencies having jurisdiction at least 48 hours prior to beginning construction and prior to 8.4. required inspections of the following items, where applicable:
- Clearing and earthwork
- · Storm drainage systems Sanitary sewer systems
- Water distribution systems
- Subgrade
- Limerock base
- Asphalt or concrete pavement
- Sidewalks, concrete flatwork/curbing
- Landscaping
- Pavement marking and signage
- Signalization
- Site lighting
- Electrical and communication lines
- Utility conduits
- Irrigation Final

The owner, engineer, and jurisdictional permitting agencies may make inspections of the work at any time. The contractor shall cooperate fully with al inspections.

Testing - all testing required by the plans and specifications shall be performed by a licensed / FDOT 8.7. "As-built" drawings of construction areas shall include qualified testing company. Required test for asphalt and limerock shall be taken at the direction of the engineer or the jurisdictional governmental agency in accordance with the plans and specifications.

6. Temporary Facilities

- for or supply temporary water service, sanitary facilities, communications, and electricity, for his operations and works, cost included under mobilization
- Contractor shall construct temporary fencing to secure construction areas at all times, cost included in mobilization.
- 6.3. Contractor to obtain a secure staging area and obtain 8.7.6. Lake and canal bank "as-built" drawings shall

all necessary approvals from the owner.

- Contractor shall construct and maintain temporary lighting as required to light the construction project limits at all times, to at least the same lighting intensity levels as the existing conditions.
- properties at all times.

- areas shall be maintained in a neat and clean manner and upon final clean-up, the project site shall be left clear of all surplus material or trash. The payed areas shall be broom swept clean. 88
- The contractor shall restore or replace any public or private property (such as highway, driveway, walkway, and landscaping), damaged by his work, equipment, or employees, to a condition at least equal to that existing immediately prior to the beginning of construction. Suitable materials and methods shall be used for such restoration. 8.9 An electronic copy of these "as-built" drawings shall
- Material or debris shall be hauled in accordance with NPDES permit and jurisdictional laws.
- All land survey property monuments or permanent 9. Utility Notes reference markers, removed or destroyed by the 9.1. Contractor is responsible for utility verification prior contractor during construction shall be restored by a State of Florida registered land surveyor at the 9.2. to fabrication. The contractor is advised that properties adjacent to contractor's expense
- 7.5. All unpaved surfaces disturbed as a result of construction activities shall be graded, sodded, & restored to a condition equal to or better than that which existed before the construction.

8. Project record documents:

- shall record on his set of construction drawings the location, length, material and elevation of any facility not built according to plans. This copy of the "as-built" 94 shall be submitted to engineer for project record.
- approve the drawings, and shall note in red 8.2. Upon completion of drainage improvements and imerock base construction (at least 48 hours before placing asphalt pavement) the contractor shall furnish the engineer of record "as-built" plans for these improvements, showing the locations and pertinent grades of all drainage installations and the finished rock grades of the road crown and edges of pavement at 50 foot intervals, including locations and elevations of all high and low points.
 - Upon completion of construction, and prior to final acceptance, the contractor shall submit to the 9.1. engineer of record one complete set of all "as-built" 9.1. contract drawings. These drawings shall be marked to show "as-built" construction changes, dimensions, locations, and elevations of all improvements.
 - "As-built" drawings of water lines and force mains shall include the following information:
 - 8.4.1. Top of pipe elevations every 100 LF.
 - 842 Locations and elevations of all fittings including bends, tees, gate valves, double detector check valves, fire hydrants, and appurtenances. 9.1.
 - 8.4.3. All connections to existing lines. 8.4.4. Ends of all water services at the buildings where the water service terminates
 - 8.5. "As-built" drawings of gravity sanitary sewer lines shall include the following information:
 - 8.5.1. Rim elevations, invert elevations, length of piping 9.2. between structures, and slopes.
 - 8.5.2. The stub ends and cleanouts of all sewer laterals shall be located horizontally and vertically.
 - 8.6. "As-built" drawings of all drainage lines shall include the following information:
 - 8.6.1. Rim elevation, invert elevation, length of piping between structures, and control structure elevations if applicable.
 - 8.6.2. The size of the lines.

consistency.

- 8.6.3. Drainage well structure shall include, but not be limited to, top of casing elevation, top and bottom elevations of the structure and baffle walls, rim elevations and pipe inverts. 9.3.
- the following: 8.7.1. Rock elevations at all high, and low points, and at

enough intermediate points to confirm slope

be taken at all locations where there is a finish

grade elevation shown on the design plans.

8.7.5. "As-built" elevations shall be taken on all paved

8.7.3. All catch basin and manhole rim elevations.

8.7.4. Finish grade elevations in island areas.

conformance to the plan details

methods determined by the engineer.

include a key sheet of the lake for the location of

shall be plotted at a minimum of every 100 lf,

unless otherwise specified. "as-built" drawings

shall consist of the location and elevation of the

top of bank, edge of water, and the deep cut line.

with the distance between each shown on the

at the bottom of the retention area and at the top

of bank. If there are contours indicated on the

Upon completion of the work, the contractor shall

prepare "as-built" drawings on full size, 24" x 36

sheets. All "as-built" information shall be put on the

latest engineering drawings. Eight (8) sets of blue or

drawings shall be signed and sealed by a Florida

and/or sewer service laterals which may not be shown

in plans. The contractor must request the location of

excavating near existing utilities. Extreme caution

shall be exercised by the contractor while excavating

installing, backfilling or compacting around the

The contractor shall notify and obtain an underground

clearance from all utility companies and

governmental agencies at least 48 hours prior to

beginning any construction. The contractor shall

obtain a Sunshine811.com Certification clearance

number and field markings at least 48 hours prior to

Prior to commencement of any excavation, the

For street excavation or closing or for alteration of

access to public or private property, the contractor

Roadway jurisdictional engineering / public works

The contractor shall use extreme caution working

contractor shall contact the electric provider company

to verify locations, voltage, and required clearances.

onsite, in right-of-ways, and in easements, prior to

Location and size of all existing utilities and

topography (facilities) as shown on construction

drawings are drawn from available records. The

engineer assumes no responsibility for the accuracy

of the facilities shown or for any facility not shown. It

is the contractor's responsibility to determine the

exact location (vertical & horizontal) of any existing

utilities and topography prior to construction. The

contractor shall verify the elevations and locations of

all existing facilities, in coordination with all utility

companies, prior to beginning any construction

operations. If an existing facility is found to conflict

with the proposed construction, the contractor shall

immediately notify the engineer so that appropriate

The contractor shall coordinate the work with other

contractors in the area and any other underground utility companies required. The contractor shall

coordinate relocation of all existing utilities with

these plans shall conform to the Federal highway

administration (FHWA) "manual on uniform traffic

control devices" (MUTCD), County Traffic Design

Standards and FDOT design standards as a minimum

accomplished by water blasting or other approved

10.3. Removal of the existing pavement markings shall be

measures can be taken to resolve the conflict.

applicable utility companies.

8.7.2. Rock elevations and concrete base elevations shall 10.1. All signing and pavement markings installed as part of

and unpaved swales, at enough intermediate 10.2. Match existing pavement markings at the limits of construction.

criteria.

10. Signing and Pavement Markings

any construction in the vicinity of existing lines.

contractor shall comply with Florida statute

553.851 for the protection of underground gas

these lateral services from the utility companies.

registered professional engineer or land surveyor.

drawing.

version 2008 or later.

utilities.

beginning any excavation.

County transit authority

School board transportation authority

Jurisdictional fire department dispatch

Jurisdictional police department(s)

pipelines.

shall notify:

authority.

"as-built" drawings as well.

- cross sections. Lake and canal bank cross sections 10.4. Incorrectly placed paint or thermoplastic pavement markings over friction course will be removed by milling and replacing the friction course a minimum width of 18 in at the contractor's expense. The engineer may approve an alternative method if it can be demonstrated to completely remove the markings without damaging the asphalt.
- 8.7.7. Retention area "as-built" elevations shall be taken 10.5. . Place all retro-reflective pavement markers in accordance with standard index 17352 and / or as shown in the plans. design plans, then they shall be included in 10.6.
 - Caution should be exercised while relocating existing signs to prevent unnecessary damage to signs. If the sign is damaged beyond use, as determined by the engineer, signs shall be replaced by the contractor at his expense
- black line drawings shall be submitted. These 10.7. All existing signs that conflict with construction operations shall be removed, stockpiled, and relocated by the contractor. Sign removal shall be directed by the engineer.
- be submitted to the engineer of record in AutoCAD, 10.8. Relocated sign support system must meet the current design standard.
 - 10.9. The contractor shall provide an inventory of existing signs to remain or to be relocated prior to starting the job and forward this list to the engineer. Contractor shall notify if there are any missing or damage signs that the plans show to remain or to be relocated.
- the project have electric, telephone, gas, water 10.10.All roadway pavement markings shall be thermoplastic in accordance with FDOT specifications section 711.
 - 10.11. Hand dig the first four feet of sign foundation
- 9.3. The contractor shall use hand digging when 10.12. All signs shall meet all of the following:
 - Meet the criteria outlined in Section 2A.08 of the 2009 MUTCD
 - Meet the specifications outlined in Section 700 and 994 of the latest FDOT Standard Specifications.
 - Consist of materials certified to meet the retroreflective sheeting requirements outlined in the current version of ASTM D4956 for type-XI retroreflective sheeting materials made with prisims, except for school zone and pedestrian signs which shall be comprised of retroreflective fluorescent yellow-green sheeting certified to meet ASTM D4956 Type IV retroreflective sheeting materials.
 - Consist of retroreflective sheeting materials that have a valid FDOT Approved Product List (APL) certification for specification 700 Highway Signing for FDOT sheeting Type XI (or type IV for school and pedestrian signs).
 - 10.13.Patch attachment hardware, such as countersunk screws or rivet heads, with retro reflective buttons that match the color and sheeting material of the finished sign panel including the background, legend or border
 - 10.14.Ensure the outside corner of sign is concentric with border. Ensure white borders are mounted parallel to the edge of the sign. Ensure black borders are recessed from the edge of the sign.
 - under, over, and around existing electric lines. The 10.15.Layout permanent final striping that leaves no visible marks at time of final acceptance





- ss.-



SCALE: 1"=20' NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE

20

40

GENERAL NOTES - EROSION CONTROL:

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN FLORIDA (HEREAFTER REFERRED TO AS FL GUIDELINES).

MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, A VISUAL INSPECTION SHALL BE MADE OF ALL INSTALLED EROSION CONTROL MEASURES AND REPAIRS SHALL BE CONDUCTED TO ENSURE THEIR CONTINUING FUNCTION AS DESIGNED

CATCH BASIN, INLETS, STORM SEWER MANHOLES STRUCTURES, ETC. SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS FROM SEDIMENT RUNOFF AND DEBRIS BY PLACING A FILTER FABRIC MATERIAL IN THE FRAME AND GRATE/MANHOLE COVER. PREVENTIVE METHODS MUST BE UTILIZED AROUND THESE STRUCTURES (DURING CONSTRUCTION OPERATIONS) BY GRADING TO DRAIN AWAY FROM STRUCTURES AND ANY OTHER METHODS APPROVED BY THE AGENCY HAVING JURISDICTION OR DESIGN ENGINEER OF RECORD.

THE CONTRACTOR SHALL INSTALL A SOIL TRACKING PREVENTION DEVICE AS PER THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL. THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS. IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFFSITE TRACKING.

5. ALL AREAS OF DISTURBANCE THAT ARE NOT WITHIN BUILDING OR PAVEMENT LIMITS SHALL BE SODDED, REFER TO LANDSCAPE PLANS FOR SOD SPECIFICATION AND REQUIREMENTS.

REMOVE ALL EROSION CONTROL IMPROVEMENTS AFTER ALL DISTURBED AREAS ARE STABILIZED WITH THE FINAL GROUND COVER.



120 North Federal Highway, Suite 208 Lake Worth, Florida 33460

PH: (954) 788-3400

Florida Certificate of Authorization # - 7928

BID / CONTRACT NO.

REV	REVISIONS													
NO.	DESCRIPTION	DATE												

PRELIMINARY PLAN NOT FOR CONSTRUCTION THESE PLANS ARE NOT FULLY PERMITTED AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USE







ompano Beach, Florida 33060-6643

120 North Federal Highway, Suite 208 Lake Worth, Florida 33460

PH: (954) 788-3400

Florida Certificate of Authorization # - 7928

BID / CONTRACT NO. :

REV	REVISIONS														
NO.	DESCRIPTION	DATE													

PRELIMINARY PLAN NOT FOR CONSTRUCTION THESE PLANS ARE NOT FULLY PERM AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER



* Printed copies of this document ire not considered and the signature nust be verified on any lectronic copies. ONIC COPIES. <u>Date: 2020.06.25 15:52:30-04'00'</u> THOMAS F. DONAHUE, P.E. FLORIDA REG. NO. 60529

(FOR THE FIRM)

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

CD-101





NOTE: PRINTED DRAWING SIZE MAY HAVE CHANGED FROM ORIGINAL. VERIFY SCALE USING BAR SCALE ABOVE.

1. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL ENSURE THE ENTIRE SURROUNDINGS OFF-SITE INFRASTRUCTURE INCLUSIVE OF THE ROADWAY, SIDEWALK, CURBING, STORMWATER SYSTEM PIPING AND STRUCTURES, VALVE BOXES, MANHOLES, LANDSCAPING, STRIPING, SIGNAGE, AND OTHER IMPROVEMENTS ARE IN THE SAME CONDITION AS PRIOR TO CONSTRUCTION.

 PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL BROOM SWEEP ALL AREAS OF THE AFFECTED RIGHT OF WAY AND REMOVE ALL SILT AND DEBRIS COLLECTED AS A RESULT OF CONSTRUCTION ACTIVITY.

3. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE APPLICANT SHALL RESTORE THE RIGHT OF WAY TO A LIKE OR BETTER CONDITION. ANY DAMAGES TO PAVEMENT, CURBING, STRIPING, SIDEWALKS OR OTHER AREAS SHALL BE RESTORED IN KIND.

ALL EXISTING AND PROPOSED ELEVATIONS

SHOWN ARE BASED ON NAVD 1988

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED, CONTRACTOR'S BID SHALL

INCLUDE CONSIDERATION FOR ADDRESSING THIS

ISSUE AND OBTAINING ALL NECESSARY PERMITS



Drawing name. M11111007.02 - 7-11 - 1900 10th Ave. N. Lake Worth FL/Engineening/Cadd11007.02-CP-17XX dvp. Layeut Name, 406 - 11007.02-CP-101-Paving Grading Drainage and Utility Plan Plotted by: pakinda Plotted or: Jun 25, 2020 - 1248pm











•0.0	•0.0	•0.0	•0.0	0.0	0.1	0.1	0.1	•0.1	0.2	0.2	0.2	•0.2	0.2	0.1	•0.1	•0.1	•0.1	0.1	•0.1	•0.1	•0.1	0.2	0.2	0.2	•0.2	•0.2	0.2	0.2	•0.2	•0.2	0.1	0.1	0 .1	0.1	0.1
•0.0	•	0.0	0.1 c	0.1	0.1	0.1	0.2	•0.2	•0.3	•0.3	•0.3	•0.3	•0.3	•0.4	0.3	•0.3	•0.3	•0.3	•0.4	•0.4	•0.4	•0 4	0.6	• . 6	0.5	•0.5	•0.4	0.4	0.4	0.3	0.2em	0.2	0.1	0.1	0.1
•0.0	•0.0	0.1	•0.1	0.1	0.1	•0.2	0.4	•0.9	•1.2	•1.2	•0.8	•0.5	•0.6	•1.0	1.3	•1.4	•1.3	•1.4	•1.5	•1.4	•1.4	•1.7	2.1	2.2	1.8	•1.7	•1.4	•1.2	•0. <u>1</u>	0.5	•0.3	0.2	0.2	0.1	0.1
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0.2	•0.3	•0.6	1.2	2.5	4.0	8.5	12.3 09	4.4	XS ⊙ MH	PLG-4N : 20 .SO[E-2. _₹	14	l: 🇞 MA	¥ 1.9	2 🙋		3.5	45	6,7		1 ³ .9 XSP	12.8 LG-3MI	SOD	§4.9 Ø	3.7	• <u>•</u> ••S()D	1.1	0.7°	5 •.4 SOI	•.3 D	0.2	0. <u>1</u>	0.1	0.1
0.2	•0.3	0 5	1.	1.9	. 3	6.6	10.9	10.2	4	6.9	4.3	1.8 4:1 M	<u>1.2</u> MAX	1.1	1.1-	1.4	1.7	SOI	2.3 D	3.7	Mitt	20 _{4.0}	2.7	1.9	1.6	SOD	0.8	0.5	•0.4	•0.3	• 2	9.1	0.1		0.1
0.2	•0.2	0.4	•0.7	179 SOD		5.6	6.6		7.7	4.1	<u>1.9</u>	A 0.8	0.6	0.5	0 .5	•0.5	0,5 S8	34 26	'58 "₩	1.98	3.8 1.3	1.3	0.9	0.6	•0.4	•··· 3 50	0.3	0.2	•0.1	0.1	0.1			• [_1] [_1] •	0.1
0 <u>.1</u>	0.2		•0,5	×1.0/	2 0 33'	^{2.1} R25'	2.5	2.9	R25'		0.7	0.4	0.3	0.3	0.3	•0.3	135	0.3	0.4	0.8	V-	•._	0.5	0.3	•0.3	0.2	0.1	0.1	0.1	•		•.0	0.1	0.0	0.0
0.1	0.2	0.3	•	9 <u>9</u> ,04		0 .8	1.0	•1.1	0.9	0.6	0.4	0.2	0.2	<u> </u>	0.2	0.2	0.2	0.2	•0.3	•0.4	0.3	•.3	0.3	0.2	•0.2	•0.1	0.1	0.1	0.1	•0.0		•	<u>•</u>	0.0	• <u>•</u> ••
0.1	•0.1	0.2	•0.3	0.3	0.3	0.4	0.4	•0.4	0.4	•0.3	0.2	•0.2	0.1	0.1	Utr	0.1		_0,1	0.2	0.2	0.2	0.2	0.2	•0 <mark>.1</mark>	•0.1	•0.1	0.1	0.1	•0.0	•0.0	0.0	•0.0	0.0	0.0	0.0
0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	•0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	•0.1	0.1	0.1	0.1	0.0	0.0	•0.0	•0.0	0.0	•0.0	0.0	0.0	0.0

CREE LIGHTING

Illumination results shown on this lighting design are based on project parameters provided to Cree Lighting used inconjunction with luminaire test procedures conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results. The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting, or energy code.

Project Name: 7-11 sr-40998

A COMPANY OF **IDEAL INDUSTRIES, INC.** 9201 Washington Ave, Racine, WI 53406 https://creelighting.com - (800) 236-6800

Luminaire	Schedu	le						
Symbol	Qty	Label	Arrangement	LMF	Lum. Lumens	Lum. Watts	Part Number	BUG Rating
	28	CPY-FLAT-A	SINGLE	1.000	7720	60	CPY250-B-DM-F-A-UL-WH-57K-HZ	B3-U0-G1
→	8	CPY-FLAT-C	SINGLE	1.000	4520	31	CPY250-B-DM-F-C-UL-BZ-57K-HZ	B2-U0-G1
	1	XSPLG-3ME	SINGLE	1.000	23600	184	XSPLG-D-HT-3ME-24L-57K7-UL-BZ-N	B3-U0-G4
	1	XSPLG-4ME	SINGLE	1.000	23600	184	XSPLG-D-HT-4ME-24L-57K7-UL-BZ-N	B3-U0-G3
•	3	XSPLG-4ME-2	2@90°	1.000	23600	184	XSPLG-D-HT-4ME-24L-57K7-UL-BZ-N	B3-U0-G3
	1	XSPLG-4ME-2(180)	2 @ 180°	1.000	23600	184	XSPLG-D-HT-4ME-24L-57K7-UL-BZ-N	B3-U0-G3
•	1	XSPLG-4ME-3	3@90°	1.000	23600	184	XSPLG-D-HT-4ME-24L-57K7-UL-BZ-N	B3-U0-G3
	9	XSPW	WALL MOUNT	1.000	4270	31	XSPW-B-WM-3ME-4L-57K-UL-BZ	B1-U0-G1

Calculation Summary; 1.00 LLF

Label All Calc Points Gas Canopy Paved Area

FIXTURE MOUNTING HEIGHTS AS SHOWN POLES MOUNTED ON 3' BASE

Verify Concrete Poles vs. SSS 7-11 Poles Due to Windzone as well as location to coast

ADDITIONAL EQUIPMENT REQUIRED: (7) SSS-4-7-17-CW-BS-OT-N-BZ - (17' x 4" x 7ga, Steel Square Pole, Tenon) (2) PD-1H4(90)BZ HORIZONTAL TENON 1@90 (3) PD-2H4(90)BZ HORIZONTAL TENON 2@90 (1) PD-2H4(180)BZ HORIZONTAL TENON 2@180 (1) PD-3H4(90)BZ HORIZONTAL TENON 3@90

PROPOSED POES MEET 180MPH SUSTAINED WIND LOADS

*** CUSTOMER TO VERIFY ORDERING INFORMATION AND CATALOGUE NUMBER PRIOR TO PLACING ORDER ***

	Bill	
l	28	
l	80	
l	12	
l	01	
l	09	
l	02	-
l	03	
l	01	
	01	
	07	C

Project Name: 7-11 #1046710 1900 10th Ave North Lake Worth, FL - EXT

Footcandles calculated at grade

Filename: 711-200302LWFLCW

Units	Avg	Max	Min	Avg/Min	Max/Min
Fc	4.85	32.0	0.0	N.A.	N.A.
Fc	40.20	45	26	1.55	1.73
Fc	20.95	45.0	1.0	20.95	45.00

Of CP XS XS PD PD PD SS	Material Y250-B-DM- Y250-B-DM- PLG-D-HT-4 PLG-D-HT-3 PW-B-WM-3 -1H4(90)BZ -2H4(90)BZ -2H4(180)BZ -3H4(90)BZ S-4-7-17-CW	F-A-UL-WH-57K-HZ F-C-UL-BZ-57K7-UL-BZ-N ME-24L-57K7-UL-BZ-N ME-4L-57K-UL-BZ
/R2	Layout By: Collin Witherow	Scale 1" = 20' 0 40 80





1" = 40'-0"



A)	5-Pack	SEJ	W/S	(36")
----	--------	-----	-----	-------

- B ATM Interior Sign
- **C** Window Graphics
- **D** W37 Keystone W/S
- **E** M50 Monument Sign
- **(F)** LTC Interior Hanging Sign
- **G** Directional Sign
- Canopy Signs

Sqft Allowances

Wall Signs Allowed:	139.7 sqft
5-Pack Tateyama:	85.3 sqft
W37 Keystone W/S:	36.0 sqft
Wall Signs Total:	121.3 sqft
Monument Sign Allowed:	100.0 sqft
Monument Sign Total:	99.6 sqft

harbinger.

sign of the future

5300 Shad Road, Jacksonville, FL. 32257 • 904.268.4681 2301 Ohio Dr, Plano, TX. 32257 • 972.905.9450

www.harbingersign.com

CLIENT: 7-Eleven #41361 (1046710)

ADDRESS: PIONEER ST & S 65TH AVE RIDGEFIELD, WA 98642

CONTACT: DPM: RCC:

SALES ASSOC.: Rick Guarino

PROJECT MGR: Brian Hutto

DESIGNER: Fernando Mercado

SVE_41361 (1046710)_Q118953_R3

F:\Customers\7 Eleven\Art\SVE_(41361) 1046710_Q118953_R3.CDR

Date	Rev	. Description
11.14.19	00	Original
02.21.20	R1	Update with new site plan
03.27.20	R2	Update adding LTC signage
04.02.20	R3	Update with new elevations

ZONING: MU-W Mixed Use-West SQUARE FOOTAGE FORMULA

Code Information:

Wall Signs

Total sign area based on lot frontage. Ten percent of the area of primary frontage facade that faces a public road. A maximum of 100 sqft. sign area per sign allowed and a maximum of 3 signs per building. Five percent sqft. allowed for secondary building facades visible from a public right-of-way.

Freestanding Signs

100 sf per face. Overall height allowed 12'-0" Min. 3' Set back

Gas Canopy

Not stipulated in ordinance, submit plans to City for approval.

Directionals

Max. height: 4'-0" Max. sqft.: 4.0 sqft.

WALL SIGN ONLY

ALLOWED TOTAL	139.7 SQ. FT.
PROPOSED TOTAL	121.3 SQ. FT.

Site Notes:

Customer Approval:_

DATE:_____ Page: 1



THE STRUCTURAL DESIGN COMPONENT TO THE FOLLOWING CODES AND SPECIFICATIONS: THE FLORDA BUILDING CODE SIXTH EDITION (2007). THE AMERICAN INSTITUTE OF STELL CONSTRUCTIONMUM. OF STELE CONSTRUCTION OF THE DIMINISMUM. FEE AMERICAN WEDDING SOCIETY(AWS DL1-55). THE AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETEJACIA 38-44). THE SPECIFICATION FOR ALUMINIAN STRUCTURES BY THE ALUMINIAN SSOCIATION/CURRENT EDITION).











ONE (1) INTERIOR ATM INTERNALLY ILLUMINATED S/F WINDOW SIGN. 3/16" THICK FLAT WHITE POLYCARBONATE FACE W/ DIGITALLY PRINTED IMAGE VINYL TO BE APPLIED FIRST SURFACE. CABINET TO BE INTERNALLY ILLUMINATED W/ GE WHITE LEDS. 4 DEEP ALUM. CABINET & 1" RETAINERS ALL PAINTED 313E DURANODIC BRONZE. SIGN TO HANG INSIDE THE STORE BEHIND GLASS AS INDICATED IN PHOTO OVERLAY WITH EYE BOLTS.

VINYL SPECS: DIGITALLY PRINTED IMAGE VINYL PAINT SPECS: 313E DURANODIC BRONZE

NOTE: ATM SIGN TO BE FABRICATED & INSTALLED BY OTHERS

Front Elevation & Side Mounting Detail - ATM S/F Window Sign - Sign B

1" = 1'-0"

Display Square Footage (Cabinet): 3.2







ONE (1) W37 INTERNALLY ILLUMINATED S/F WALL SIGN CABINET.

3/16" THICK PAN FORMED & EMBOSSED WHITE POLY. FACE W/ TRANSLUCENT VINYL GRAPHICS APPLIED FIRST SURFACE. 4" DEEP BRAKE FORM ALUM. CABINET W/ 1 1/4" RETAINERS TO BE PAINTED DURANODIC BRONZE. CABINET TO BE INTERNALLY ILLUMINATED W/ WHITE LEDS.

VINYL SPECS: 3M 3630-44 ORANGE, 3M 3630-33 RED, 3M 3630-26 GREEN PAINT SPECS: DURANODIC BRONZE

7-ELEVEN LOGO DIMENSIONS: **OAH:** 58 1/2" OAL: 53 7/16"



Display Square Footage(Cabinet): 36.0



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Total Sign Square foo	tage Calculations:	Overa	ll Height:	SetBa	acks:	hachie	0000
Allowed:	100.0 sqft	Allowed Max:	12'-0"	Requirements:	3'-0''		IGEI.
Proposed:	99.6 sqft	Proposed:	11'-0"	Proposed:	3'-0''	sign of the futu	re
						5300 Shad Road, Jacksonville, 2301 Ohio Dr, Plano, TX. 32	FL. 32257 • 904.268.4681 2257 • 972.905.9450
85 3/8" RETAI	NER					www.harbing	ersian com
83 3/4" CUT 8	SIZE					CLIENT: 7-Eleven #413	61 (1046710)
78" PAN		2" PAN 8" 2" PAN				ADDRESS: PIONEER ST & S	65TH AVE
	·····					RIDGEFIELD, WA	98642
			EXHAUST VENT			CONTACT:	
REGULAR UN		_	POWER SUPPLY	c			
			WHITE LEDS	0		SALES ASSOC.: Rick Guarino	
				SIDE	В	PROJECT MGR: Brian Hutto	
			- 3/16" PAN FORMED) (1) (118953 R3
			POLY. FACE				0_Q110755_K5
DIESE						Date Rev. [Description
DILGL				DIESEL		11.14.19 00 Original	
						03.27.20 R1 Update with net 03.27.20 R2 Update adding I	v site plan LTC signage
					LAREDO TACO	U4.U2.2U R3 Update with nev	N elevations
			INTAKE VENT				
			2" PERF.			ZUNING: MU-W M	IXed Use-West
			T, MEL			-	
		↓	SUPPORT STEEL & SKIRT				
			BYINSTALLER				
T W/ 2" INSET HINGED	RETAINERS TO BE PAI	NTED DURANODIC BRO	DNZE. CABINET TO	BE INTERNALLY ILLUMINATED			
NSLUCENT VINYL GRA	APHICS APPLIED FIRST	SURFACE. 8" DEEP EX	TRUDED ALUM. CA	BINET W/ 2" INSET HINGED			
LEDS. 2" INSET RETAIN	NERS TO BE HINGED O	N ONE SIDE OF CABINE	T.				
PRINTED 3M 3630-20 V	VHITE VINYL & 3M 8520	LAMINATE TO BE APPL	IED FIRST SURFAC	E.			
// WHITE LED DIGITS. C L & 3M 7725-12 BLACK `	CABINE I TO BE INTERN VINYL TRIM AROUND L	ALLY ILLUMINATED W/	WHITE LEDS. 3/16" SECOND SURFACE.	1 HICK PAN FORMED CLEAR 8" DEEP EXTRUDED ALUM.			120 7 CO ET
TH SIDES OF THE CAE	BINET.					PROPOSED TOTAL	121.3 SQ. FT
						SITE NOTES:	
ON SPACE UNDERNEA	TH CABINET FOR AIR F	LOW VENTS.	7-ELEVEN LOGO	SEP PRICE VISION LED UNIT	rs:		
			DIMENSIONS:	LED UNIT SIZE: 22.082" X	(44.924"	Customer Approval:	DATE:
			OAH: 47" OAL: 42 15/16"	LED CHARACTER SIZE: 19.980"			Page: 5
USI UNER.				·		LISTED	Complies with
						CSA	UL 48 C22.2 No.207
			Display	Square Footage (Cabinets Combine	ed): 99.6	THE STRUCTURAL DESIGN CONFORMS TO THE FO THE FLORIDA BUILDING CODE SIXTH EDITION (20)	LLOWING CODES AND SPECIFICATIONS: 17). THE AMERICAN INSTITUTE OF STEEL 19. OTHER TRANSPORT
OR FABRICATION. THIS DESIGN IS TH	HE SOLE PROPERTY OF HARBINGER A	ND MAY NOT BE USED OR DUPLICATED	IN ANY FORM WITHOUT THE	EXPRESS WRITTEN PERMISSION OF HARBINGER.		CONSTRUCTION(MANUAL OF STEEL CONSTRUCTIO SOCIETY(AWS DI.1-15). THE AMERICAN CONCRETE FOR STRUCTURAL CONCRETE/ACI 318-14). THF SPI	אי, אווא בטוווטון). THE AMERICAN WELDING INSTITUTE BUILDING CODE REQUIREMENTS ECIFICATION FOR ALUMINUM STRUCTURES
						BY THE ALUMINUM ASSOCIATION(CURRENT EDITIO	JN).



ONE (1) NON-STANDARD D/F INTERNALLY ILLUMINATEDSIGN CABINET. 8" DEEP EXTRUDED ALUM. CABINET W/ WHITE LEDS. 2" INSET RETAINERS TO BE HINGED ON ONE SIDE OF CABINET.

7-ELEVEN FACE SPECS: 3/16" THICK PAN FORMED & EMBOSSED WHITE POLYCARBONATE FACES W/ TRAI RETAINERS TO BE PAINTED DURANODIC BRONZE. CABINET TO BE INTERNALLY ILLUMINATED W/ WHITE I

VINYL SPECS: 3M 3630-44 ORANGE, 3M 3630-33 RED, 3M 3630-26 GREEN PAINT SPECS: DURANODIC BRONZE

LAREDO TACO CO. FACE SPECS: 3/16" THICK PAN FORMED WHITE POLYCARBONATE FACE W/ DIGITALLY

VINYL SPECS: 3M 3630-20 WHITE, 3M 8520 LAMINATE COLOR SPECS: PMS 376 C GREEN, PMS WHITE, BLACK

ONE (1) STANDARD L50G2D D/F "DOUBLE-PRODUCT" DIESEL INTERNALLY ILLUMINATED SIGN CABINET W. POLY. FACES BACK SPRAYED PMS 485 RED THEN PMS WHITE W/ 3M 3630-26 GREEN TRANSLUCENT VINYL CABINET W/ 2" INSET RETAINERS TO BE PAINTED DURANODIC BRONZE. RETAINER TO BE HINGED ON BO

PROVIDE CUSTOMER W/ PRICE VISION 20" DIGIT WHITE LED MODULES.

7-ELEVEN VINYL SPECS: 3M 3630-26 GREEN, 3M 7725-12 BLACK 7-ELEVEN PAINT SPECS: PMS 485 RED & PMS WHITE

PROVIDE 2" PERFORATED PANEL SECTION FINISHED DURANODIC BRONZE TO FILL/PROVIDE VENTILATIO

NOTE: SUPPORT STEEL & BASE TO BE PROVIDED BY INSTALLER. NOTE: SUPPORT STEEL & ALUMINUM SKIRT TO BE PAINTED DURANODIC BRONZE. NOTE: DEDICATED 20 AMP CIRCUIT REQUIRED FOR LED GAS PRICE CABINET, MUST BE PROVIDED BY CI

| Face & Side Detail - Non-Standard 7-Eleven / LTC & L50G2D Double Product Monument Structure - Sign E

3/8" = 1'-0"

THIS DESIGN IS FOR THE SOLE PURPOSE OF ILLUSTRATION & CONCEPT DESIGN. THIS FILE IS NOT TO BE USED FOR PRODUCTION AND/



ONE (1) **LTC- 3X3 HANGING** S/F INTERNALLY ILLUMINATED SIGN CABINET. 3/16" THICK PAN FORMED WHITE POLY. FACE W/ TRANSLUCENT VINYL GRAPHICS APPLIED FIRST SURFACE. 4" DEEP ALUM. CABINET W/ 1 1/4" RETAINERS & FINISHED BACK TO BE PAINTED **PMS WHITE**. CABINET TO BE INTERNALLY ILLUMINATED W/ WHITE LEDS. PROVIDE 8'-0" LENGTHS OF ALL-THREAD & 1"X1" ALUM. PIPE.

LAREDO TACO CO. VINYL SPECS: 3M 3630-20 WHITE 3M 8520 LAMINATE LAREDO TACO CO. COLOR SPECS: PMS 376 C GREEN, PMS WHITE, PMS BLACK PAINT SPECS: PMS WHITE

7-ELEVEN LOGO DIMENSIONS: OAH: 29 1/2" OAL: 27"

Face & Side Detail - LTC- 3X3 HANGING S/F Cabinet - Sign F

1/2" = 1'-0"

Display Square Footage(Cabinet): 9.0





7-ELEVEN VINYL SPECS: 3M 3630-44 ORANGE, 3M 3630-33 RED, 3M 3630-26 GREEN

NOTE: ARROWS TO ALWAYS BE FACING TOWARDS STORE.

Front Elevation & Side Detail - **Standard D/F Directional** Sign Cabinet - **Sign Type G** 3/4" = 1'-0"

Display Square Footage: 3.0 Each





Display Square Footage(Cabinet): 9.0

1/2" = 1'-0"



Front Elevation - 36" Canopy Height - Sign And Graphics Layout - Sign I 3/8" = 1'-0"



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www.harbingersign.com

CLIENT: 7-Eleven #41361 (1046710)

ADDRESS: PIONEER ST & S 65TH AVE RIDGEFIELD, WA 98642

CONTACT:

SALES ASSOC.: Rick Guarino

PROJECT MGR: Brian Hutto

DESIGNER: Fernando Mercado

SVE_41361 (1046710)_Q118953_R3

	Date	Rev	v. Description
Г	11.14.19	00	Original
Γ	02.21.20	R1	Update with new site plan
	03.27.20	R2	Update adding LTC signage
	04.02.20	R3	Update with new elevations
Ĺ			
1.1			

ZONING: MU-W Mixed Use-West SQUARE FOOTAGE FORMULA

ALLOWED TOTAL 139.7 SQ. FT. **PROPOSED TOTAL** 121.3 SQ. FT. Site Notes: Customer Approval:_ DATE: Page: 8

MET UL 48 CSA C22.2 No.207

THE STRUCTURAL DESIGN CONFORMS TO THE FOLLOWING CODES AND SPECIFICATIONS: THE FLORIDA BUILDING CODES IST'H EDITION (2017). THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION(INAMAL) OF STEEL CONSTRUCTION, 9TH EDITION), THE AMERICAN WELDING SOCETY (AINS OLI-5). THE AMERICAN CONCERTE INSTITUTE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE(ACI 318-14). THE SPECIFICATION FOR ALUMINUM STRUCTURES BY THE ALUMINUM ASSOCIATION(CURRENT EDITION).



		5	-
	SIZE / REMARKS 14' HT: 7' SPRD; 4" C.; FL CANOPY 12' HT: 6' SPRD; FULL		KEITH
۱Y	CANOPY		301 East Atlantic Boulevard
E	12' HT; 6' SPRD; FULL CANOPY		Pompano Beach, Florida 33060-6643
	14' HT; 7' SPRD; 3" C.; FU	ILL	120 North Federal Highway, Suite 208
	CANOFT		Lake Worth, Florida 33460
			PH: (954) 788-3400
	SIZE / REMARKS		
2	CANOPY		Authorization # - 7928
י כ	8' HT; 4' SPRD;2" C.; MULTI-STEM: FULL CANOI	γ	BID / CONTRACT NO. :
-	8' HT; 4' SPR;2" C.;	<u>·</u>	
	STANDARD; FULL CANOP	Y	
			NO. DESCRIPTION DATE
	SIZE / REMARKS		
	10' CT; 16' OA HTS; HEAVY	,	
	SIZE / DEMA DKe	—	
	24" HT; 24" SPRD; 24" 0.0	<i>.</i>	NOT FOR CONSTRUCTION
	36" HT; 36" SPRD; TRIPLI	E	THESE PLANS ARE NOT FULLY PERMITTED
	24" HT; 24" SPRD; 24" O.0	D.	DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE
	24" HT; 24" SPRD; 24" O.0	2.	PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION
	24" HT; 24" SPRD; 24" O.(2.	OVER THE PROJECT WILL FALL SOLELY UPON THE USER.
Beauty'	48" HT; 24" SPRD; FULL		
STD'	STANDARD		
	SIZE / REMARKS		FLEVEN
	12" HT; 14" SPRD; 18" O.C	3.	8
GREEN	12" HT; 14" SPRD; 18" O.C	2.	
	10" HT; 16" SPRD; 18" O.C	2.	7-ELEVEN #41361
oridana)	18" HT: 18" SPRD: 24" O.0	2.	1900 10TH AVENUE
TAM			NORTH, LAKE WORTH,
			FLORIDA 33461
			SCALE: AS NOTED
ECIES			DRAWN BY: MP
			DESIGNED BY: WR
	19,401		CHECKED BY: MP
	19.208		
	10,200		Michaol Digitally signed
PRO	VIDED		by Michael I
2	26		Phillips
1	7		Date: 2020.06.25
75	5%		Phillips 12:00:02-04'00'
	7		C.
PRO	VIDED	Ν	FLORIDA REG. NO. LA0001540
98	3%		(FOR THE FIRM)
PRO			SHEET TITLE
1	6		
-	<u> </u>	\smile	
1	GR.	APHIC SCALE	
1	0* 0	20 40	
		CALE: 1"=20'	SHEET NUMBER
2		D DRAWING SIZE MAY HAVE	
	CHANGED FRO	M ORIGINAL. VERIFY SCALE	LP-101



GEND:					
LM TO REMAN	N (NO SYMBOL); STRUCTION				
ALM TO RELOCATE					
LM TO REMO	R NEW LOCATION				
1 INVASIVE EX	OTICS (EX: BRAZ. PEPPER)				
ISPOSITION T	ABLE ON LD-102				
NG WEAKEST I	RUBBING BRANCHES AND				
RETAINING 8	D% OF FOLIAGE. LARGE TREES				
WN OFFSET F	ROM ACTUAL TREE LOCATION				
ARCHITECT /	ISA CERTIFIED ARBORIST FOR				
ECESSARY RC	OT PRUNING SHALL BE				
JIRE PERMITT	NG BY A REGISTERED				
ER. PROVIDED FOR	R ALL RELOCATED TREES AND				
ES OR PALMS	WILL REQUIRE A WRITTEN				
IT" FROM THE CONFIRM WITH ED AS NUISAN	LOCAL GOVERNING AGENCY LOCAL GOVERNING AGENCY ICE/EXOTIC INVASIVE MAY BE				
MATERIAL TO	D REMAIN SHALL BE				
CONSTRUCTIC	N. REFER TO TREE ACTOR SHALL TAKE EXTRA				
ANY DAMAGE	TO THE TRUNK, ROOT ZONES				
MIN. 1' BEYOND CA	NOPY DRIP LINE PROJECTION.				
DEEMED NECESS	ARY FOR LARGE SPECIMEN TREES				
Contraction of the second	(PRUTECTED DURING CONSTRUCTION)				
and the second	- 2" X 4" P.T. OR TERMITE TREATED				
	2' MINIMUM BELOW GRADE				
	ORANGE CONSTRUCTION				
	POSTS AND FRAME				
	TERRAIN IS SLOPED				
	COLLAR TO BE PRESERVED				
TO	- POSTS TO BE DRIVEN INTO GROUND AVOIDING PRIMARY HORIZONTAL				
	EXISTING ROOT ZONE TO BE				
D AREA	PROTECTED				
	– 2" X 4" P.T. OR TERMITE TREATED WOOD POSTS AND FRAME. USE #3				
	REBAR IN ASPHALT AREAS OR AS REQUIRED				
4	- DRIP LINE - EXISTING TREE OR PALM TO REMAIN				
\rightarrow	(PROTECT DURING CONSTRUCTION)				
5	- "TENAX" OR SIMILAR PLASTIC ORANGE CONSTRUCTION FENCE ATTACHED TO				
	TOOL FOOTO AND FRAME				
51/					
	CONSTRUCTION STORAGE WITHIN PROTECTED AREA				
R					
OTECTIO	N DETAIL				
	NOT TO SCALE				





MF

WR

MP

The location of plants, as shown on the plans, is approximate. The final locations may be adjusted slightly to accommodate unforeseen field conditions, to comply with safety setback criteria, to avoid creating unsafe sight conditions, or as otherwise directed or approved by the Landscape Architect / owner in writing. All other location adjustments to the layout are to be approved in dvance in writing. By the Landscape Architect and

- Contractor understands that an important element of the design of this project is meeting landscape Contractor unberstands that an injointain elements or the experiments of the project is interangl paralistage ordinances with a design fare that includes symmetry, alignment, for a points and / or smooth curvillnear forms where applied and contractor shall follow and instruct the working crews accordingly. In the event of any doubt as to how to execute the plans, Contractor shall immediately consult with Architect and/or Owner.
- aduct as to now to execute the pairs, contractor shall intrinediately consult with Architec and/or Owner, Landscape Contractor shall fing ande, prepare site as outlined in the following notes and per plans; furnish and install all plants, shrubs, trees and / or pairns meeting minimum requirements and brace them per details provided, Furnish and install soil, gravel, boulders, sod and mulch as specified in plans and notes below. Landscape Contractor shall furnish and install all trees, pairns, shrubs, groundcover, sod, planting soil, fertilizer, herbicide, pre-emergence herbicide, seed, and mulch.

D

BIDDING

- Contractor to have liability insurance including Owner and Landscaper as insured's in excess of \$10,000 as well as Worker's Compensation. Contractors and Subs must ensure they are doing take offs from Bldg Dep. Revised sets and / or Bid Set 2.
- documents. Verify with this Office that you are bidding from latest available plans.
- Read ALL notes and typical planting details sheets prior to submitting RFIs and prior to bidding. When submitting an RFI reference sheet number, detail number and/or note category and number
- andscane con ractor shall verify all estimated quantities of material shown on the drawings prior to submitting
- Landscape contractor shall verify all estimated quantities of material shown on the drawings prior to submitting their bid. Plant list prioring (if shown) is for permitting / mitigation comparison purposes only, any prices shown are to be disregarded by Landscape Contractor. All Plant Material shall meet or exceed height and spread requirement. Heights are local code requirement and / or design intert related and always governs over container size. Container size given for reference only and must be sized-up to meet height requirements of plant list. Plant material available with excessive height beyond specifications must be consulted with Landscape Architect for design intent. All landscape material was confirmed to be available at time of design. Landscape contractor understands that some material may not be available locally, however is available in Tri-County Region. Plant material supply is her responsibility of the Landscape Architect for design. Candscape Architect if specific materials that so ensure availability the time of installation. Bring to the attention of Landscape Architect if specific material is no longer available at the time of bidding and / or orior to available on Substitutions. Substitutions must be approved no longer available is the time of bidding and / or orior to suballable and the contract and hershe musterial lise and or or orions available at the time of bidding and / or orior to suballable and the contract and hershe musterial lise and or origin or available at the time of bidding and / or orior to suballity atterial and suballity at the subarised bidding atterial available atterial bidding atterial at the appresent and / or orior to available at the time of bidding and / or orior to available atterial bidding atterial atterial bidding atterial bidding atterial atterial bidding atterial bidding atterial atterial bidding atterial no longer available at the time of bidding and / or prior to actual construction. Substitutions must be approprior to construction.
- Pre-inspections of site required prior to bidding.
- The plant list is intended only as an aid to bidding. Any discrepancies found between the quantities on the plan
- The plant list is intended only as an aid to bidding. Any discrepancies found between the quantities on the plant and the quantities on the plant list shall be brought to the attention of the Landscape Architect for clarification.
 All labor and material for soil amendments and ferilizer that is required to ensure the successful establishment and survival of the proposed vegetation, as well as all the cost for the removal of unsuitable or excess backfill material from plant beds, in addition to fine grading and mulching all plantbods and individual trees shall be included in the contractor's bid to perform the work represented in this plan set.
 Bid shall be itemized for possible value engineering.
 Sod and Rocks (if specified) shall be estimated by scaling plans. Include price per square foot for sod. Rocks (include price per ton). Small rocks and gravel beds shall have landscape fabric material and minimum 4" death. Roulders to be bid by unit.

- depth. Boulders to be bid by unit. All S.F. if noted is approximate and shall not be considered all inclusive; it is the contractor's responsibility to do his or her take off, submit price per S.F. and in the end, sod all areas that are not covered either by plants mulch and/or rocks. It shall be the responsibility of the contractor to include in the bid, the repair of any existing
- sod which may be damaged during construction. Final payment to the Contractor shall be for actual plants installed on the project.
- Fig. Training periods the contractor share to obtaining and paying for costs of all permits described in bid whether permit costs are reinforced and the cost of the cost of all permits described in bid. Research permit status and research all permits and additional documentation and certifications required such as separate there envolves permit for example, and consider prior to bidding. 16. General / Landscape Contractor shall leave a 5% unforeseen conditions allowance such as for additional roo

- General / Landscape Contractor shall leave a 5% unforeseen conditions allowance such as for additional root barriers determined to be needed on site and as job progresses. Refer to Section T, Watering, for supplemental watering requirement. Landscape contractor is responsible for verifying all plant quantities prior to bidding and within 7 calendar days of receipt of these plans shall notify the landscape architect in writing of any and all discrepancies. In case of discrepancies, planting plane shall take precedence over plant list. No substitutions are to be made without prior consent of the Landscape Architect.
- GENERAL LANDSCAPE NOTES
- GENERAL LANDSCAPE NOTES Plants grown in containers prior to installation shall be removed from their containers before they are planted in the ground and have circling roots removed. All screening shrubs shall be planted for proper operation of equipment being screened and/or per the requirements of the utility as necessary. All hedge material required for screening purposes shall be planted with branches bouching. Adjust spacing as necessary and/or provide additional plants to provide an adequate screen as required by code. Leave access to utility or clearance as quired.
- All landscaping shall be installed according to sound nursery practices. Contractor shall comply with federal.
- An landscaping shall be installed according to sound nursely practices. Contractor shall comply with reteral, state and local laws and regulations pertaining to the inspection for plant disease and lineset infestation.
 All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive property of Keith and Associates and may not be duplicated without authorization or used for other projects than the intended.
 The Londsman Cantrodes ability accession acutice to protect puy existing and indicated intended and injecting. Applied to the second se
- than the intended. The Landscape Contractor shall exercise caution to protect any existing sod, electrical and irrigation. Any damage to the sod, electrical or irrigation shall be replaced or repaired to the original state by the Landscape Contractor at no additional cost to the owner. Contractor at no additional cost to the owner. Tree, palm, accent shrubs and bed lines are to be located in the field and approved by the Landscape
- Architect / owner prior to planting. Landscape Contractor acknowledges that material planted without approval of location may be subject to relocation by Landscape Architect to maintain design intent if not followed
- All trees must be pruned as per Landscape Architect's direction.
- In areas where asphalt is removed in order to receive landscape material, the lime rock sub-base material must also be removed and replaced with approved planting soil mix. Landscape contractor is responsible for sending photographs to the landscape architect to pre-approve all
- rees palms and shrubs prior to delivery to project site ractor shall coordinate his or her work with that of the irrigation, landscape lighting, and
- e contractor if differe contraction in uniferent. cape contractor shall treat plant areas with pre-emergence herbicide after weeds and grass have ved. Landscape contractor shall wait 7 days after pre-emergence treatment prior to planting. 10. The la

- PERMITS & REGULATIONS Contractor(s) must obtain separate landscape, irrigation and tree relocation/removal permits from the governing authority prior to the issuance of the first building permit for the project. Landscape contractor to call the local Landscape Inspector to schedule a pre-construction meeting prior to
- 2 tallation if required.
- All mandatory requirements by local Landscape Departments and their inspectors shall govern and landscape ractor commits by accepting contract to comply promptly for builder/owner to obtain C.O

TREE REMOVAL

в

- Removal of any trees or palms will require a written "tree removal permit" from the local governing agency prior to removal. Non-native trees classified as "prohibited" trees may be exempt from the permit if listed as Category 1 by Florida Exotic Pest Plant Council. Confirm with Local Municipality. Landscape Contractor is responsible to remove ALL invasive nuisance trees such as Brazilian Pepper, Melaleuca, Australian Pine and all invasive trees as categorized by the governing agencies, whether listed on hetero exemption.
- or not. Landscape Contractor is responsible for coordinating tree and palm removals and transplants shown on ree/palm Disposition Plan. The Landscape Contractor is to remove and discard from site existing inde trees, palms, shrubs, ground covers, so and weeds within landscape areas.

EXISTING TREES

- Existing trees designated to remain shall be protected during all construction phases. Any trees or shrubs designated to remain that are scarred or destroyed will be replaced at the contractor's expense, per the appraised value. Existing plant material not shown on the plan and in conflict with new planting shall be evaluated at the time of
- new planting installation by the Landscape Architect. Trees and plant material indicated to be relocated with no new location provided in plans shall be moved to a location on site designated as a nursery holding area
- no new rocation provided in pairs arise to there to a location on site designated as a mostly moting area with the root ball protected from direct sungliker, maintained and imgated until new location is determined. Prune trees to remove damaged branches and improve natural shape and thin out structure. Do not remove more than 15% of branches. Do not prune back terminal leader.
- more than 15% of branches. Do not prune back terminal leader.
 Prune existing shrubs to remove damaged branches and improve natural shape.
 Existing trees to remain shall be timmed per Ansi-A300 standards. Supervision of the trimming shall be performed by an ISA Certified Arborist to ensure quality work.
 All existing trees shall be "lifted and thinned" to provide an 8 minimum clearance for sidewalks and pedestrian walkways and a 14 minimum clearance for roadways, driveways and all vehicular use areas.
 Selective canopy and root pruning of existing trees can be conducted (only as necessary and in no event

more than 35%) to accommodate for new approved construction. Pruning shall be conducted / supervised by

- an ISA Arborist. 8. If plans call for relocation of trees, palms or plants. High level of care should be exercised to assure that they
- In plants call for relocation of trees, plants or plants, high lever or care should be exercised to assume that they are promptly replanted upon being duy p.
 All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must treverse the protection area, they shall be tunneled or bored under the tree.
 Erosion control devices such as slit fencing, debris basins, and water diversion structures shall be installed to prevent silitation and/or ension within the tree protection zone.
 Roots shall be cut manually by digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw,
- narrow trencher with sharp blades, or other approved root pruning equipment

- TREE RELOCATION (These notes for relocation trees only and if applicable) Flag all trees and palms to be transplanted with differentiating color than those to be saved or removed. Tree Relocation process must be performed or supervised by ISA Certified Arborist. Water the root zones to field capacity for 5 continuous days before root pruning. At a minimum soak the soil to a 4-0" depth within a 6' radius. Root prune a minimum of six weeks before relocation. Prune away all dead or damaged limbs or fronds. For trees, prune out 1/3 of the existing cancer by selectively timming small internal branches. For palms, gather fronds above the bud and tie them loosely with jute twine to avoid damage. Brace root pruned trees awaiting relocation
- 5. Root prune and the root system, irrigate daily for 2 weeks then root prune another
- Four prime group of the root system, imgate dary for 2 weeks then note prime another $\frac{1}{3}$ rd, irrigate daily and prune last $\frac{1}{3}$ rd on actual relocation date, no less than two weeks (six weeks total minimum root pruning by stages). ISA Arborist on staff shall observe for intense shock. Canopy pruning may be deemed necessary by Arborist on staff to balance for intense root ball loss, canopy shall be trimmed only as ssary to increase survival.
- necessary to increase survival. Root prune with proper clean equipment to sever roots. Ensure roots are not torn or pulled apart. With hand tools, dig a 2-0" wide by 3-0" deep trench at a minimum distance as determined by the consulting arborist to expose roots. Cut all roots 1.5" and larger in diameter with a clean, sharp pruning saw. Treat all cuts with a fungicidal barrier. Backfill the trench, within 4 hours of digging, with a 1:1 mixture of site soil and

- Cuts with a fungicial barrier. Backfill the trench, within 4 hours of digging, with a 1:1 mixture of site soil and sewdust or other fine organic material. Do not compact. Form a rootball size in compliance with Florida grades and Florida standards number 1 or better. Maintain the soil moisture at field capacity throughout the six weeks. Allow the plant to regenerate roots over a period of six weeks. At the end of six weeks, preare the planting pit at the new location. Overdig the hole diameter a minimum of 2' beyond the root ball, with the recipient hole to be at least 1/3 larger than the area that was trenched for transmet.
- transplanting. With the consulting arborist present, undercut the entire root ball of the plants to be transplanted at a depth specified by the arborist. The undercutting method may be a choker cable drawn through the root ball with
- heavy equipment. 13. At the direction of a professional rigger, assemble slings, padding, guiding ropes and cables for attachment to the crane or backhoe. The professional rigger shall determine the size of machinery necessary to execute the lifting and moving operation.
- 14. Install trees within 24 hours of removal from their original location to locations provided by Landscape Architect or Developer with approval of municipal / Landscape Inspector.
- 15. Experienced Tree Spade operator shall move tree or experienced tree mover shall choose best means and
- specific contract of the specific operator share into the transmission of the specific contract of the specific contract
- period. Replace trees that do not meet this requirement with the same species, size, and quality or per mitigation requirements specific to the governing authority with jurisdiction. Fertilize the plant as directed by the consulting arborist. When the plant is placed in the new location, backfill the planting pit with topsoil and water thoroughly to eliminate air pockets and compact the soil. Set the tree no deeper than its original condition. Cover the root ball area with 3" depth of organic mulch. Provide fungicide and fertility applications at the direction of the consulting arborist. Post transplant watering to provide moisture and reduce any excessive stress due to root desiccation. Watering to be adjusted according to conditions and at the supervision and direction of the ISA certified arborist.
- 21. Post trans
- 22. The diameter of the root-pruning or transplanting circle shall be at a distance away from the trunk equal to 12
- times each inch of trunk diameter at breast height. 23. For all palms except Sabal palmetto, the lower fronds shall be pruned leaving 9-11 fronds that can be tied
- vithout an extensive amount of weight that may damage the heart of the palm. The Sabal palmetto shall have all fonds cut without damaging the bud. Transplanting must occur within 24 hours after being dug for relocation. Trees/palms should be kept in shade
- nameplanung must occur within 24 hours after being dug for relocation. Trees/palms should be kept in shade and the canopy kept moist. Digging and preparation of the new hole for the transplant shall be done prior to removing the tree from the existing location. 25

- existing location. The landscape Contractor is to verify that all new holes have appropriate percolation. Padding the sling may be necessary so that the trunk or "boots" are not damaged. A 6" saucer shall be created around the edge of the plant pit to help hold water, see planting detail for
- additional information. Over the guarantee period the Landscape contractor shall be responsible for resetting any trees or palms that
- Ore the glataline parks the adheadupt exception and be responsible to restand up to be and the are not vertical when caused by winds less than 74 mpt.
 After transplanting trees and palms, the landscape contractor shall be responsible for obtaining water and watering to maintain soil moisture during the guarantee period at a minimum of: First month- daily, Second month three times per week, Third and Fourth months two times per week, Last eight months one time per
- 31. For trees over 4" in caliper at the time of planting, the schedule should be: First six weeks, daily, one and a half nonths to six months - three times per week, last six months - one time per we
- SITE PREPARATION & GRADING
- SITE PREPARATION & GRADING Landscape contractor shall loosen and till compacted solls that are overly compacted in all planting areas of the project to provide for proper soil aeration for plant establishment. Planted areas shall be cleared of underground rocks, construction debris and other materials detrimental to the health of the plants. Line rock base material shall be removed within planting pits and adjacent to pavement. The planting areas should be clean to a depth equal to the root bail of the trees/palms proposed for the area. Planting areas soils shall be tested for phofero planting. Soils showing high (alkaling) ph (over 7.5) shall be amended or replaced with native soil having a ph range of 5.5 7.5, as approved by Landscape Architect. In the event that native soils are unsuitable; ref. Section M, Soils. All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure program drainance. Plant bads in particulates and the planting planting areas and planting plantes that be soils and the soils.
- Im plating a cee on phanning incomable teached in a dimension process and plansing our insignation installation to ensure proper drainage. Planteet for a dimension plante as compacted by heavy equipment shall be de-compacted so that drainage is not impeded. Landscape Contractor shall treat plant areas with pre-emergence herbicide after weeds and grass have been
- removed. Landscape Contractor shall wait (7) seven days after pre-emergence treatment prior to planting. 5. Site preparation shall include the eradication and removal of any weeds, clean-up of any dead material, debris,

- and rubbish.
 6. General site and berm grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading shall be provided by the Landscape Contractor. All planting beds shall be free of all rocks 1/2" or larger, sticks, and objectionable material including weeds and weed seeds. All lime rock shall be removed/deaned down to the native soils.
 7. The Landscape contractor shall ensure the planting areas are at finish grade prior to installing plant materials.
 8. All trees and plant material corrents in shall be protected during construction. Contractor shall install protective barriers such as "Tenax" orange safety fencing or similar, to be installed before the beginning of the project.
 Ref. The Protection Detail for additional information. Barriers shall be located to include the drip line of the trees, palms and plant material. The contractor shall instead before the used to the trunk, root zeros and plant material. ot zones and grade.
- Final grade within planting areas to be 4" below adjacent paved areas or top of curb. Sod areas to be 2" below All planting beds shall be shaped and sloped to provide proper drainage away from building and structures and to swales, if applicable,

IPPICATION

- IRRIGATION Any trigation Notes and specifications included in Irrigation Sheets govern over the following Irrigation Notes. The Landscape Contractor shall coordinate with the irrigation contractor if not the same and leave provisions for all individual trees in turf areas and all planting beds. Irrigation / Landscape contractor to guarantee 100% coverage and 50% overlap (head to head coverage) to all landscaped areas and furnish and install a rain sensor. Irrigation Contractor to adapt design to onsite conditions adjusting heads and changing nozzles as required to avoid overspray onto buildings or paved areas. The contractor shall ensure that the irrigation system is operational and free of leaks prior to any planting being finalized. Plant material that is installed prior to the irrigation system being operational shall be watered by the contractor at his or her expense. Water for plant establishment should be included in the cost of the plant. All guidelines as outlined by the South Florida Water Management District (SFWMD) or water management district with jurisdiction shall be strictly adhered to.
- district with jurisdiction shall be strictly adhered to. 7. Any existing irrigation system shall be retrofitted to comply with the specifications as outlined above

HARDSCAPE & OTHER MATERIALS

Face of trees and palms to be located a minimum of 2' setback from all fences, walkways, walls, and paved surfaces, unless otherwise indicated on the plans. Refer to details.

UTILITIES / CLEARANCES

Agriform® 21-gm Tablets (SKU# 90026*; 500 tablets/case) NEW Tree / Shrub Container Size 1 Gai 2 Gai 3 Gai 5 Gai 7 Gai 15 Gai 24" Box 1 1 to 2 2 to 3 2 to 3 3 to 5 7 to 10 15 to 24

· Place plant in the hole and backfill to halfway point. Place Agriform Tablets in the bottom of the planting hole.
 Place Agriform Tablets in the hole about 1to 2 inches away from root tips.
 Finish filling the hole around the plant to grade level. SCOTTS: 1-800-492-8255 or visit www.scottspro.com

All areas disturbed during construction shall be sodded with St. Augustine 'Seville' unless otherwise noted These disturbed areas shall have proper irrigation established or non-functional.

andscape Contractor to supply and install 2" soil layer 50/50 mix blanket for all new sod area All open areas not covered by trees, palms, shrubs, vines, ground covers or existing sod in good condition to remain, shall receive Stenotaphrum Secundatum, St. Augustine 'Seville' sod, whether labeled on the plans on ont, unless a different species is indicated on the planting plan. Sod shall be strongly rooted, free from weed fungus, insects and disease. Contractor shall be paid by the total sodded area x the unit price submitted (field

Sod shall be machine stripped no more than 24 hours prior to laying. Sod shall be machine stripped no more than 24 hours prior to laying. Lay sod strips with tight joints, do not overlap, stagger strips to offset joints in adjacent courses. Work sifted so mix into minor cracks between pieces of sod and remove excess soil deposits from sodded areas. Sod or slopes greater than 3:1 shall be immediately staked after planting.

Submit 1 gallon container of all planting media for landscape architect review. Samples to include specified BID / CONTRACT NO. planting mix, topsoil, container planting mix (if applicable) and mulch. Submit representative nursery photos of all Trees and Palms for review prior to delivery to the site. Includ

scale for height. Submit representative nursery photos of all shrub and groundcover material for review prior to delivery to the

INSPECTION & ACCEPTANCE

INSPECTION & ACCEPTANCE Notify the governing Agency if required and Landscape Architect of commencement. Orisite plant deliveries shall occur on Monday through Friday only unless otherwise directed by the Landscape Architect / Owner. The contractor shall ensure that plant material is delivered undamaged from transportation or digging operations. The Landscape Architect may reject material that has been damaged or rendered unacceptable due to relocation or transportation from the point of origin. All plant material shall be available for inspection and approval by the Landscape Architect may reject material is specifications and notes have been Architect and owner. Contractor shall ensure that the plans, details, specifications and notes have been adhered to and that the landscape and irrigation installation is compliant to all items as directed on the plans prior to scheduling of the final inspection. Upon completion of the work, the Landscape Contractor shall notify the Landscape Architect and request a final inspection. Any items that are judged incomplete or unacceptable by the Landscape Architect or owner shall be promity corrected by the Landscape Contractor. No substitution of plant material, type or sizes will be permitted without prior written authorization from the Landscape Architect and owner.

Landscape Architect and owner. To obtain final payment, Contractor must provide release of all mechanic's liens and material liens.

All planting beds shall be mulched to a depth of 3" with an organic mulch approved by Landscape Architect. N heavy metals, such as arsenic, etc. are to be contained in the mulch. The contractor shall provide certificatio if requested or proof that all mulch is free of heavy metals or similar environmental contaminants.

Shredded approved organic mulch to be used beyond trunk in all directions and throughout all hedges a

plant instema. All trees in sodded areas shall have a clean cut 4' diameter mulch ring. Preferred mulch is shredded melaleuca. Cypress, red, gold and green mulch is prohibited. All mulch shall have a minimum 3" separation from the trunk of the tree/palm trunk to avoi trunk to avoid rotting.

WAI EXING All plant material shall be watered in thoroughly at the time of planting. It is the sole responsibility of the Landscape Contractor to ensure that all new plantin, receive adequate water during the installation and until completion of contract. Deep untroing of all new trace and palers and new unplemental undering that there are be

receive adequate visuo ruong the insulanzon and mini complexition roomatic Coop watering of all new trees and palms and any supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to ensure proper plant establishment and development and shall be provided by Contractor as a part of this contract.

. The Landscape Contractor is responsible for maintaining all landscape planting areas

The Landscape Contractor is responsible for maintaining all landscape planting areas
until final acceptance of the owner.
 The contractor is responsible for mowing project ouring planting and
establishment periods, based on mowing project once a month from October to April, and
twice a month from April to October (Ouring installation and plant establishment only and until final inspectio
and owner accepts and takes ownership).
 Any excess soli, undesired stores or debris resulting from landscape operations shall
be removed promptly, keeping the site clean as work progresses.
 The Landscape Contractor shall at all times keep the premises free from accumulation
of waste material or debris caused by their crews during the performance of the work.
Upon completion of the work, the contractor shall promity thremova ll waste materials,
debris, unused plant material, empty plant containers, and all equipment from the
project site.

Landscape Contractor to return to job site 12 months after tree bracing and remove all tree braces. Owner may choose to retain 5% of payment to ensure compliance. The Landscape Contractor shall water, mulch, weed, prune, and otherwise maintain all plants, including soc

andscape Contractor small water, muich, weed, prune, and buffewate maintain ai partie, including sodo completion of contract or acceptance by landscape architect. Settled plants shall be reset to proper grade ng saucers restored, and defective work corrected. and shrubs shall be maintained to keep clearance of stop signs and safety clearance for visibility a

GUARANTEE & REPLACEMENT

GUARANTEE & REPLACEMENT By accepting the contract, the Contractor is thereby guaranteeing all plant materials and design for a period of not less than one (1) year from the time of final acceptance by the owner. Contractor shall replace any plants which die or wither within such period with healthy plants that meet specifications of the same species and size without additional cost to the owner unless such death or withering is due to Owner's failure to do ordinary maintenance on such plants after final acceptance in accordance with any maintenance instructions given by Landscape Architect for such plants. Any plant materials damaged by lightning, storms, freeze damage or other "acts of God" as well plants damaged by vehicles, vandalism or neglect are not included in this replacement jenteremt. If requested, the Landscape Architect may act as a mediator between owner and Landscape Contractor on a time material basis. "Plants" includes all trees, palms, shrubs, grass and other plant plants provided or planted by Contractor.

All work to be done in a professional manner. No change order shall be valid, due or paid unless it is approved by Owner in writing in advance. These notes shall be an integral part of the contract of Contractor and shall be deemed incorporated therein b reference. In the event of a conflict among the terms among the plans and these notes, the terms of thi

ABBREVIATIONS IN NOTES AND PLANS

U.N.O. = Unless Otherwise Noted

L.A = Landscape Architect S.F.= Square Feet

STD = Standard (single trunk) B&B = Balled and Burlapped BLDG DEP = Building Department

RFI = Request for Info

ver & Ligh

ISA CA or ISA Arborist = International Society of Arboriculture Certified Arborist



Pompano Beach, Florida 33060-6643

120 North Federal Highway, Suite 208 Lake Worth, Florida 33460

PH· (954) 788-3400

Florida Certificate of Authorization # - 7928

REVISIONS		
10.	DESCRIPTION	DATE

PRELIMINARY PLAN NOT FOR CONSTRUCTION THESE PLANS ARE NOT FULLY PERM AND ARE SUBJECT TO REVISIONS MADE DURING THE PERMITTING PROCESS. RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY





SCALE: AS NOTED 1ST SUBMITTAL DATE: MARCH 2020 DRAWN BY: MP DESIGNED BY: WR CHECKED BY: MP



MICHAEL J. PHILLIPS, RLA FLORIDA REG. NO. LA0001540 (FOR THE FIRM)

SHEET TITLE

LANDSCAPE NOTES

SHEET NUMBER

LP-001

PROJECT NO. 11007.02

Q.

2.

3.

SUBMITTALS

MULCH

WATERING

CLEAN UP

MAINTENANCE

MISCELLANEOUS

FPI = Florida Poy

2

Z.

TT.

1. The contractor shall be responsible for determining the location of and avoid and protect utility lines, buried cables, and other utilities. The owner or Landscape Architect shall not be responsible for damage to utility or

irrigation lines. Trees shall be placed a minimum of 5 ft. from underground utilities, unless otherwise approved in writing by

Landscape Architect and Owner. All canopy trees to be planted min. of 15' from light source/poles. Unless otherwise approved by the governing

All carlopy trees to be planted min, of to morni igm source/poles. Unless otherwise approved by the governing authority Landscape Architect and Owner.
 Landscape contractor shall contact the county, governing authority and/or utility companies to locate all underground utilities, and/or construction for to digging. Landscape contractor shall lepair all damage to underground utilities, and/or construction caused by utility damage, at no cost to the owner.
 All plant material symbols shown on landscape plan shall be considered diagrammatic and should be adjusted in the field by contractor to avoid all utilities, and all other obstructions.

in the field by contractor to avoid all utilities, and all other obstructions. If/ When digging in right of way needed: Two (2) full business days before digging, call toll free 1-800-432-4770, or 811. Sunshine State One Call of Florida, inc. Notification Center. In addition, call the Governing Agency's Utilities/Public Works Department. Contractors are responsible for coordinating with the Governing Agency's Utilities/Public agencies to assist in locating and verifying all underground utilities prior to excavation. All existing utilities shown on the plans are to be considered approximate and should be verified by the contractor prior to the stat of work operations. Above and below ground utilities shall be verified and located in the field by the contractor prior to commencing work in the project area. The contractor shall examine available utility plans and confirm confiner on finds any approare available available utility the Project Tenglineer of said conflicts and the Engineer day and confirmed any negosager adjustments with the utility the Project Tree Locations.

conflicts and the Engineer will coordinate any necessary adjustments with the utility provider. Tree locations

e utilities compliance. Excavations within 5' of known utilities should be done by hand.

Contractor shall familiarize himself with the location of and avoid and protect utility lines, buried cables, and all

Contractor shall tamiliarize nimeer with the location of and avoid and protect utility lines, buried cables, and all other utilities, noted or not, on plans. Leave clearance and access to all above ground or at grade meters and equipment. Landscape planting shall be in conformance with FPL guidelines for setbacks from overhead utility lines. Landscape shall not interfere with light poles, fire hydrants, electrical/mechanical equipment access, signs, drainage structures, etc. Bring to the attention of Landscape Architect any conflicts.

NOUI BARKIENS Root barriers will be installed to protect building foundations, curbing, walkways, paved areas, roadway base material and utilities from existing large trees or proposed new trees that are within 5° of existing or new approved construction or as may be deemed necessary as job progresses. Mechanical Root barriers will be used for large existing Canopy Trees and chemical type barriers will be used

mechanical root partiers will be beeproot and unterincal root partiers will be biopartier. Substitutions must be of approved equal or better quality. Root barrier will be installed per manufacturer specifications. Root barrier depths will be determined by the manufacturer recommended depth chart and as required by on-site conditions in a case by case basis as deemed necessary by Landscape Architect Architect / ISA Arborist and Landscape Inspector.

SOILS All building construction material and foreign material shall be removed from the planting areas and replaced with 70/30 mix (70% sand / 30% organic compost) or amend existing soils per section H.2. Planting soil mix shall be delivered to the site in a clean loose and friable condition and is required around the root ball of all trees and shrubs, the top 6" of all shrubs and ground cover beds and top 2" of all grassed areas. This soil shall be tilled into the existing soil after the existing soil has been cleaned of all undesirable foreign materials. Recycled compost is encouraged as a soil amendment alternative. Planting soil to be weed free.

Do not allow air pockets to form when backfilling. All trees shall be watered-in utilizing water probe or a tree

PLANT SIZE & QUALITY All plant material must meet or exceed the minimum size requirements as specified on the plant list. Height specification governs over container size if both specifications given cannot be met. Any other requirements for specific shape or effect as noted on the plan shall also be required for acceptance. Material specified as Balled and Burlapped (B&B) can be accepted in container if not available as B&B at the discretion of Landscape Architect, if so, root bound and/or circling roots shall be removed and root ball must be proportionate to Tree / Palm. Unless noted otherwise, all trees designated as single trunk shall have a single, relatively straight, dominant bedge more structural benching and even bench distribution. Tunke on ender shall be uniform in thickness

leader, proper structural branching and even branch distribution. Trunks on palms shall be uniform in thickness for the entire length of the palm and shall not taper off to disproportionate thinness towards the crown. Trees with bark inclusion, tipped branches, and co-dominant trunks will not be accepted. Trees with girdling, circling and/or plunging roots will be rejected. Use nursery grown plant materials that complies with all required inspection, grading standards, and plant

egulations in accordance with the latest edition of Florida Department of Agriculture. "Grade & Standards for

All substitutions must be approved by the governing authority if it is required Canopy and by Landscape Architect / Owner if supplementary accent material. Contractor shall comply with Federal, State, and Local laws and regulations pertaining to the inspection for plant disease and insect infestation.

plant disease and insect infestation. Trees, plants, shrubs, ground covers: Plant species and sizes shall conform to those indicated on the drawings. All nursery stock shall be in accordance with grades and standards for nursery plants parts 1 and 2, latest edition published by the Florida Department of Agriculture and Consumer Services, unless specified otherwise, All plants shall be Florida grade number 1 or better as determined by the Florida Division of Plant Industry and tightly knit plant, so trained or favored in its development that first appearance is unquestionable and it is outstandingly superior in form, number of branches, compactness and symmetry. All plants shall be value, healthy, vigorous, well branched and free of disease and insect eggs and larvae and shall have adequate rock systems. Trees and names shalt be uniform in size and shape. All materials shall be subject to anorval by the

All container grown material shall be healthy vigorous well-rooted plants and established in the container in

An container grown internal shall be relating, vigorous, wein-loced plants and established in the container in which they are sold. The plants shall have tops of good quality and be in a heating yowing condition. An established container grown plant shall be transplanted into a container and grown in that container sufficiently ong enough for the new fibrous roots to have developed so that the root mass will retain its shape and hold the the backback.

growth without resulting shock. Root suckers on any tree are not acceptable and must be properly pruned. Contractor shall coordinate with Landscape Architect and Owmer to obtain prior approval for the selection of the specific specimens of all palms and any trees of more than six feet in height. Contractor to supply

At the discretion of the Landscape Architect, plants are subject to review for approval for size, variety, condition

and appropriateness to the design intent. All synthetic burlap, synthetic string or cords, or wire baskets shall be removed before any trees are planted. All synthetic tape (i.e. tagging tape, nursery tape) shall be removed from trunks, branches, etc. before inspection. The top 1/3 of any natural burlap shall be removed or tucked into the planting hole before the trees

are back filled.
are back filled.
and "groundcover" requires 75% coverage and 100% within 3 months of installation. Bring to the attention of Landscape Architect in writing before commencing if this is not achievable with the design.
Set tree no deeper than it was in its original growing condition with the top of the root ball even with, or slightly higher (+1⁻⁴) than the finished grade.
All trees/palms shall be planted so the top of the root ball, root flair are slightly above final grade. Shrub material shall be planted such that the top of the plant ball is flush with the surrounding grade.
All trees and palms shall be braced / staked per accepted standards by the Florida Nursery, Growers & Landscape Association (FNGLA). Nailing into trees and palms for any reason is prohibited and the material will be received rolated lease.

All trees, new or relocated, to be staked and guyed as detailed. Layout shrubs to create a continuous smooth front line and fill in behind with triangular spacing. Excavate pit or trench to 1-12 times the diameter of the balls or containers or 1' wider than the spread of roots and 3' deeper than required for positioning at proper height. Compact a layer of topsoil in bottom before placing plants. Backfill around plants with planting mixture, compacted to eliminate voids and air pockets. Form grade slightly dished and bermed at edges of excavation. Apply 3' of mulch.

Groundcover and shrubs to be spaced in a uniform and consistent pattern per planting details.
 All mechanical equipment, irrigation pumps, FPL transformers, pool pumps, etc. shall be screened on a minimum of three sides by landscape shrubs.
 Contractor shall not mark or scar trunks in any fashion.
 When requested by Landscape Architect, demonstration of healthy root system if not previously approved, can include tree removal and re-installation for inspection at no additional cost to the owner.
 Remove rejected Plant material from the Site immediately and replace with acceptable plants.

1. All Fertilization shall comply with state fertilization laws. Fertilization shall be Agriform "20-10-5 Plus minors" or similar approved slow-release tablets applied per manufacturer suggested application rate chart

pattern per planting details

rees and palms shall be uniform in size and shape. All materials shall be subject to approval by the

Landscape architect. Plants shall be pruned prior to delivery only upon the approval of the Landscape

Field grown trees and palms previously root pruned shall obtain a root ball with sufficient roots for conti

Planting backfill for palms shall be clean, coarse native sand unless specified otherwise

All trees and palms shall be free of open wounds and unsightly visible scars.

Mechanical Root barriers will be "DeepRoot" and Chemical Root barriers will be "Biobarrier". Substitutions

The final plant locations may be adjusted, as approved / directed by the Landscape Architect in writing, to

ill be adjusted as necessary when in conflict with existing utilities.

ROOT BARRIERS

for new trees

PLANT SIZE & QUALITY

Nurserv Plants"

rchitect

PLANTING NOTES

are back filled

P. FERTILIZATION

О.

photograph of trees prior to purchase and inst

and appropriateness to the design intent.

be rejected. Please refer to the planting details. All trees, new or relocated, to be staked and guyed as detailed.

indcover and shrubs to be spaced in a uniform and cons

N.