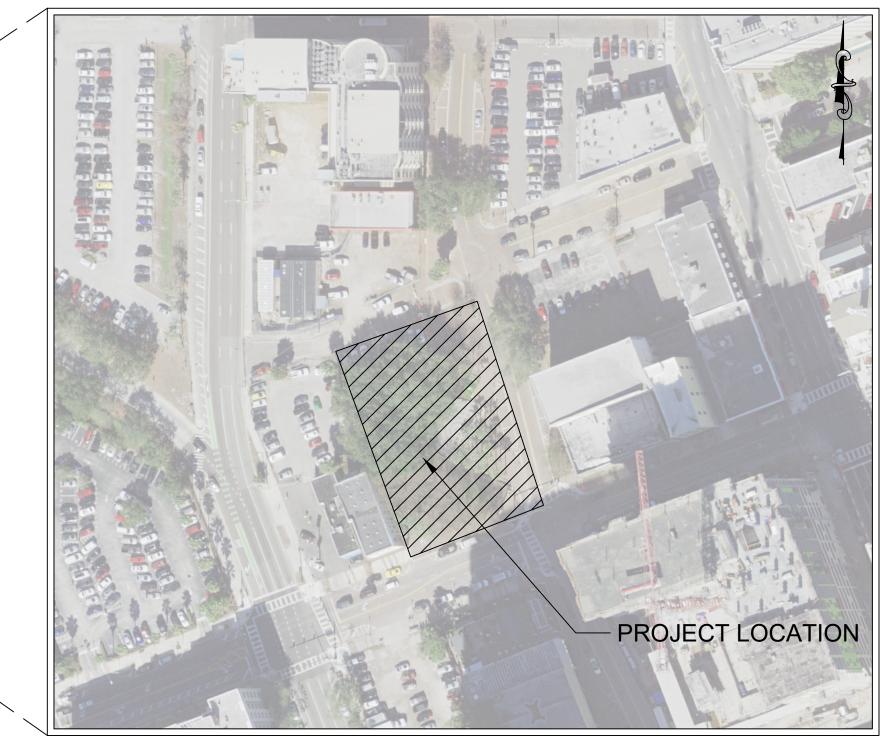
HERMAN MASSEY PARK

CONSTRUCTION DOCUMENTS

PREPARED FOR: CITY OF TAMPA DEPARTMENT OF PARKS AND RECREATION



LOCATION MAP



PROJECT LOCATED IN SECTION 24 / TOWNSHIP 29 SOUTH / RANGE 18 EAST

> 1002 NORTH FRANKLIN STREET TAMPA, FL, 33602

	PERMIT T	RACKING	
PERMITTING AGENCY	PERMIT NAME	PERMIT NUMBER	EXPIRATION DATE

By Joseph Cermak at 10/20/2023 2:19:27 PM

By Manuel Zambrano at 7/19/2023 5:32:15 PM

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

APPROVED

HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983, FLORIDA STATE PLANES, EAST ZONE, U.S. FEET (NAD83)



DATUM NOTE

CONTROL BENCHMARK: STATION IS A CITY OF TAMPA SURVEY BENCHMARK, HV-02 0124A, LOCATED IN POINT OF INTERSECTION TOP OF CONCRETE RETAINING WALL ON NORTHEAST CORNER OF FLORIDA AVENUE AND TYLER STREET.

EL.: 21.81' (NAVD88)

STATION IS A NAIL AND DISK STAMPED "EBI LB - 7652" LOCATED 8.5'± SOUTHEAST OF THE SOUTHEAST CORNER OF THE SUBJECT PARCEL

EL.: 18.17' (NAVD88)

STATION IS A NAIL AND DISK STAMPED "EBI LB - 7652" LOCATED 36.1'± NORTHEAST OF THE NORTHEAST CORNER OF THE SUBJECT PARCEL

EL.: 18.16' (NAVD88)

FEMA NOTE:

THE PROPERTY SHOWN HEREON APPEARS TO LIE IN FLOOD ZONE "X" ACCORDING TO THE FLOOD INSURANCE RATE MAP, COMMUNITY NUMBER 120114, PANEL NUMBER 0354, SUFFIX H, EFFECTIVE8/28/2008, FOR CITY OF TAMPA, FLORIDA

LEGAL DISCRIPTION: (BY SURVEYOR)

THE SOUTH 72-3/4 FEET OF LOT 1, BLOCK 7, AND ALL OF LOT 4, BLOCK 7, TAMPA GENERAL MAP OF 1853, AS RECORDED IN PLAT BOOK 1, PAGE 7, OF THE PUBLIC RECORDS OF HILLSBOROUGH COUNTY, FLORIDA.

SHEET INDEX

GENERAL

LC-100 **COVER SHEET** S-1 SIGNATURE SHEET

SITE PLAN SP-100

SITE PLAN

CIVIL PLAN

C-1 **GENERAL NOTES** C-2

DEMOLITION PLAN C-3 GRADING AND DRAINAGE PLAN

C-4 WATER AND SEWER PLAN C-5 WATER AND SEWER DETAILS

TREE DISPOSITION PLAN

TREE DISPOSITION PLAN LD-100 LD-500 TREE DISPOSITION DETAILS

HARDSCAPE PLAN

LH-100 HARDSCAPE LAYOUT AND DIMENSION PLAN

HARDSCAPE - PAVING PLAN LH-101 LH-102 HARDSCAPE - AMENITIES PLAN

LH-500 - LH-509 HARDSCAPE DETAILS

LH-510 - LH-511 HARDSCAPE - ART SCULPTURE DETAILS

LANDSCAPE PLAN

LP-100 LANDSCAPE PLAN LP-500 LANDSCAPE DETAILS

IRRIGATION PLAN

IP-100 **IRRIGATION PLAN**

IP-500 **IRRIGATION NOTES AND DETAILS** IP-600 IRRIGATION SPECIFICATIONS

LANDSCAPE LIGHTING PLAN

LL-100 LANDSCAPE LIGHTING PLAN LL-101 LANDSCAPE PHOTOMETRIC PLAN LL-500 - LL-502 LIGHTING DETAILS

ELECTRICAL PLAN

E0.01 ELECTRICAL SYMBOL E1.00 ELECTRICAL SITE PLAN

ELECTRICAL DETAILS AND SCHEDULES E6.00 - E6.01

E8.00 LIGHTING COMCHECK

BOUNDARY & TOPOGRAPHIC SURVEY

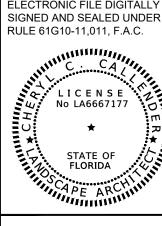
Site - Manuel Zambra

Building - Manuel Zambrano

Urban Design - Keacia Newson - Approved with Commer 10/11/2

Natural Resources - Joseph Cermak - Approv

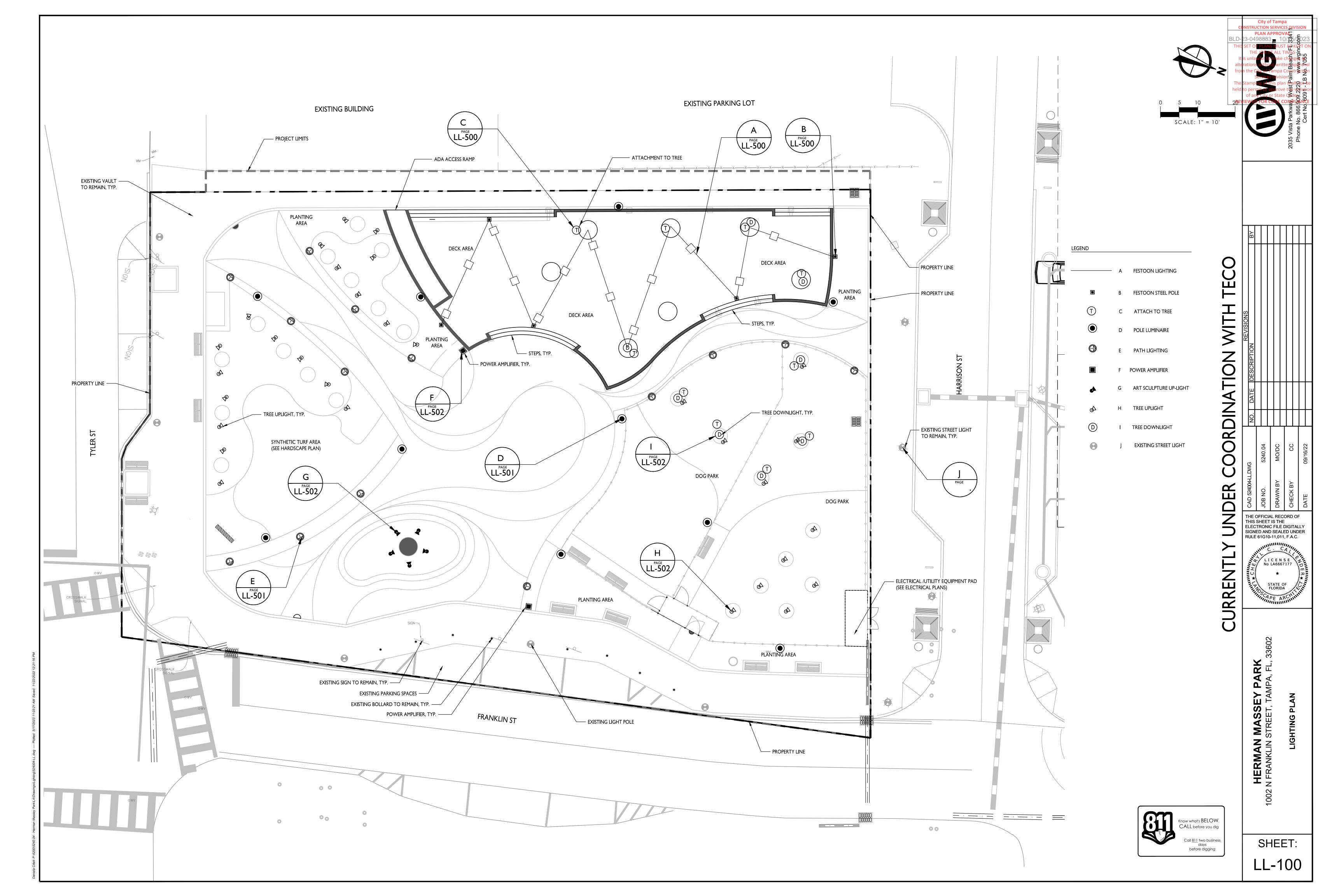
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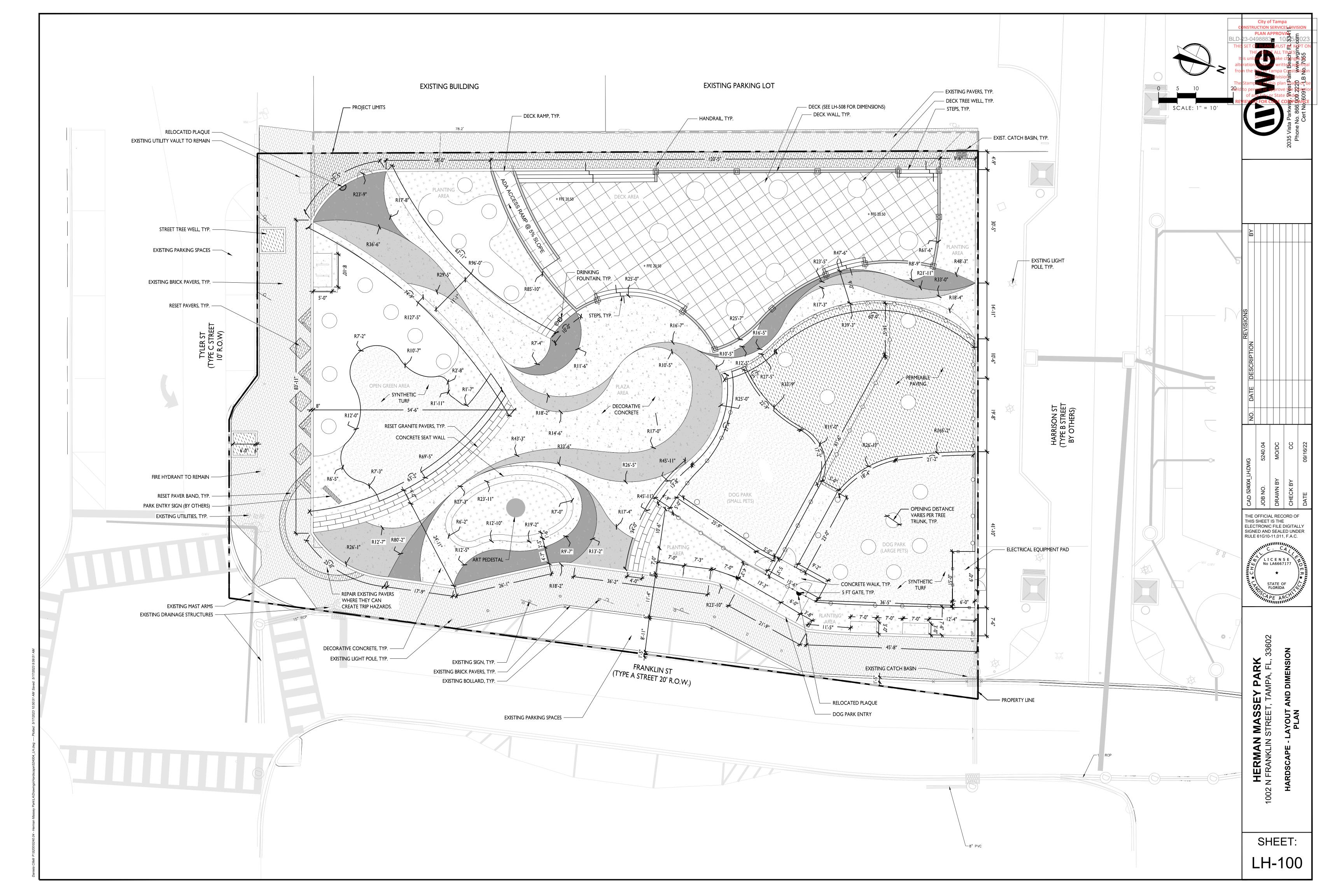


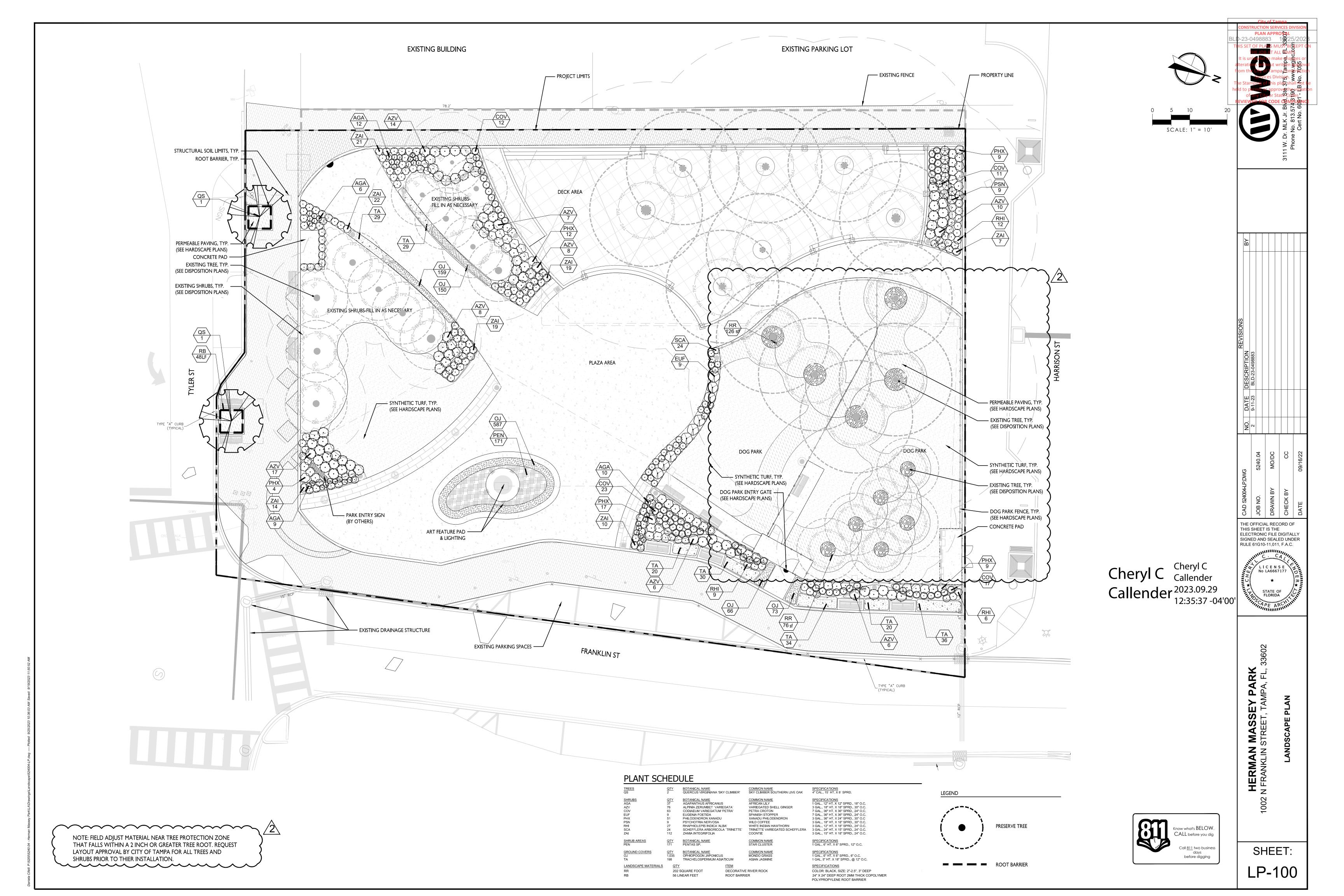
HERMAN MASSEY PARK N FRANKLIN STREET, TAMPA, FL,

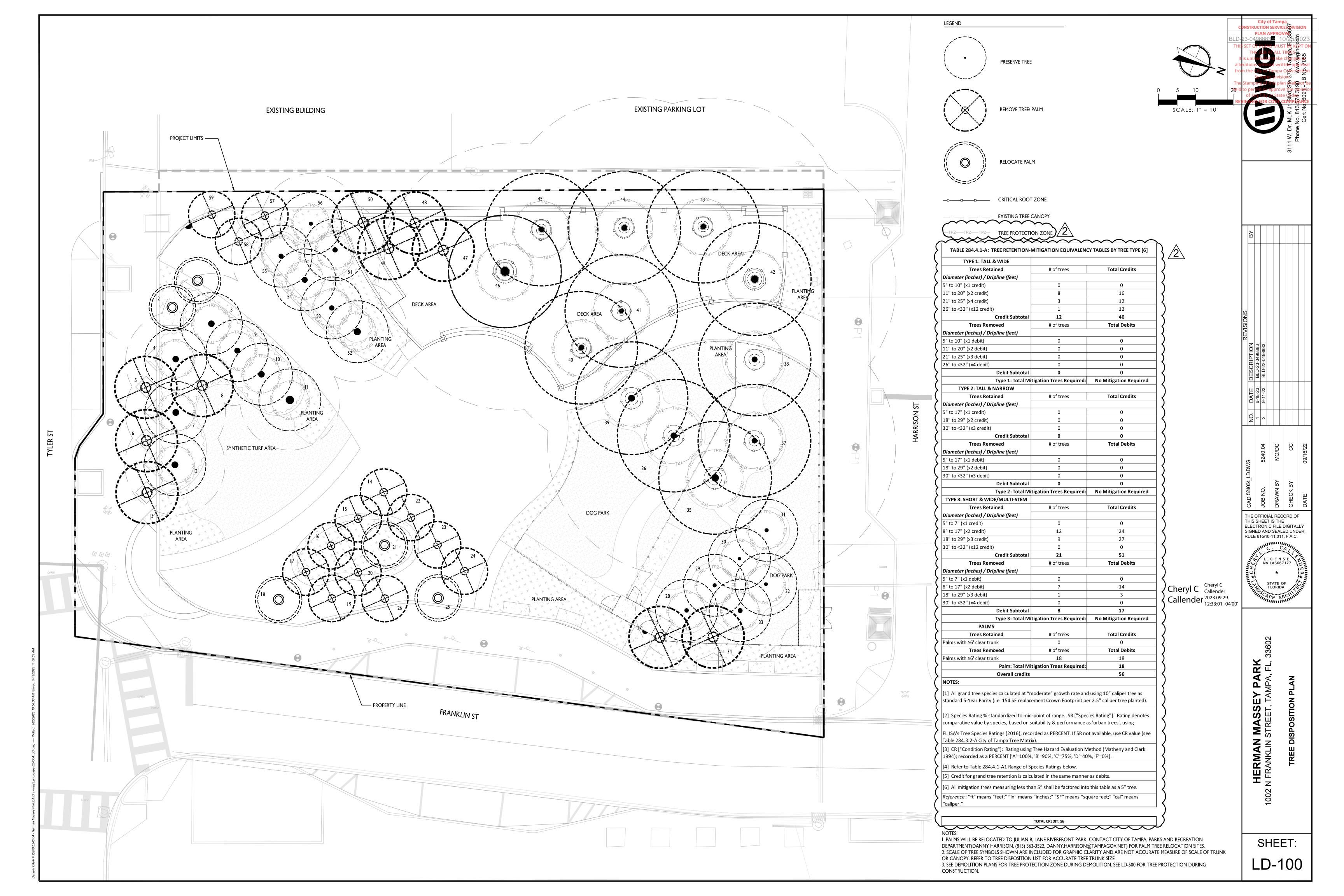
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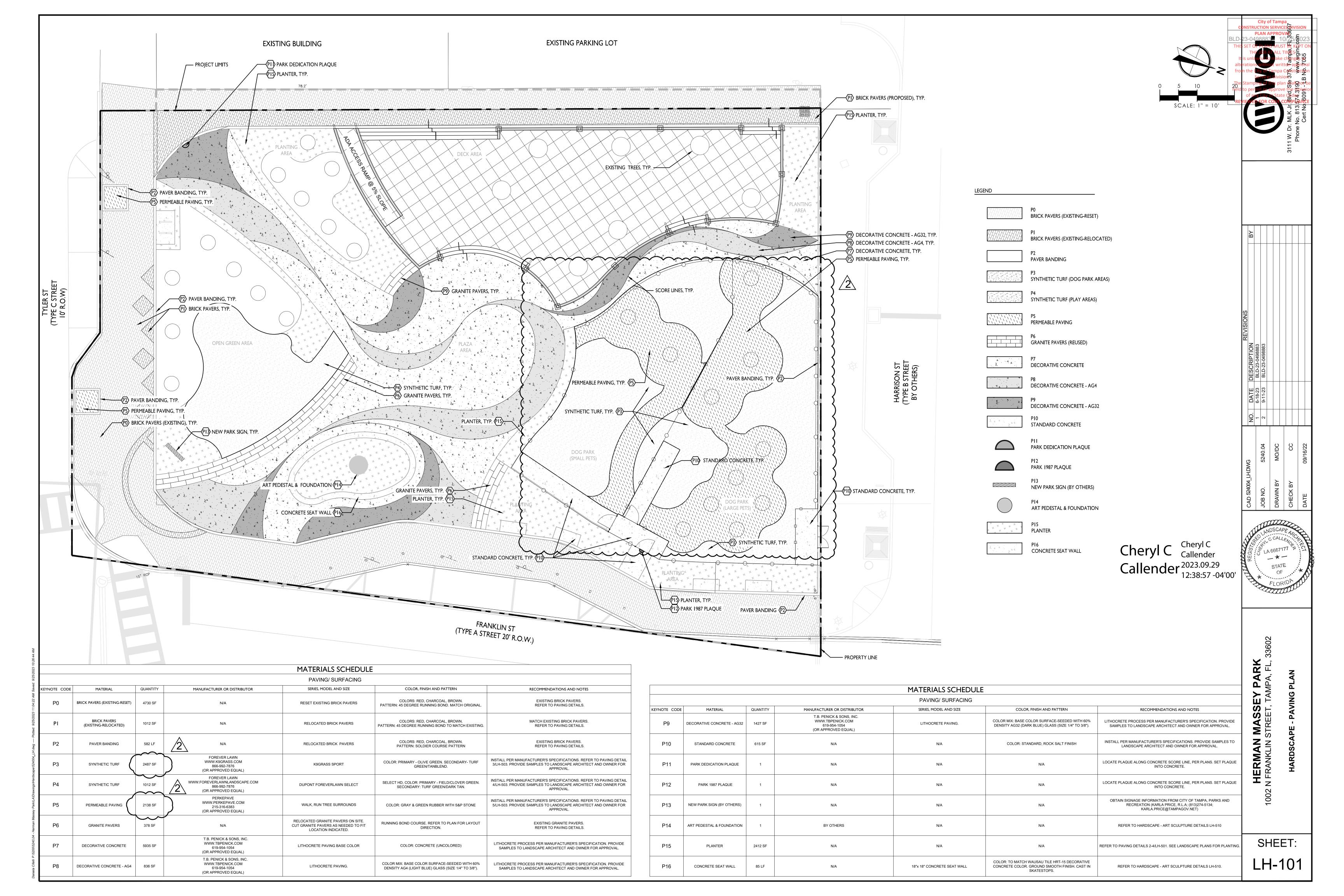
LC-100

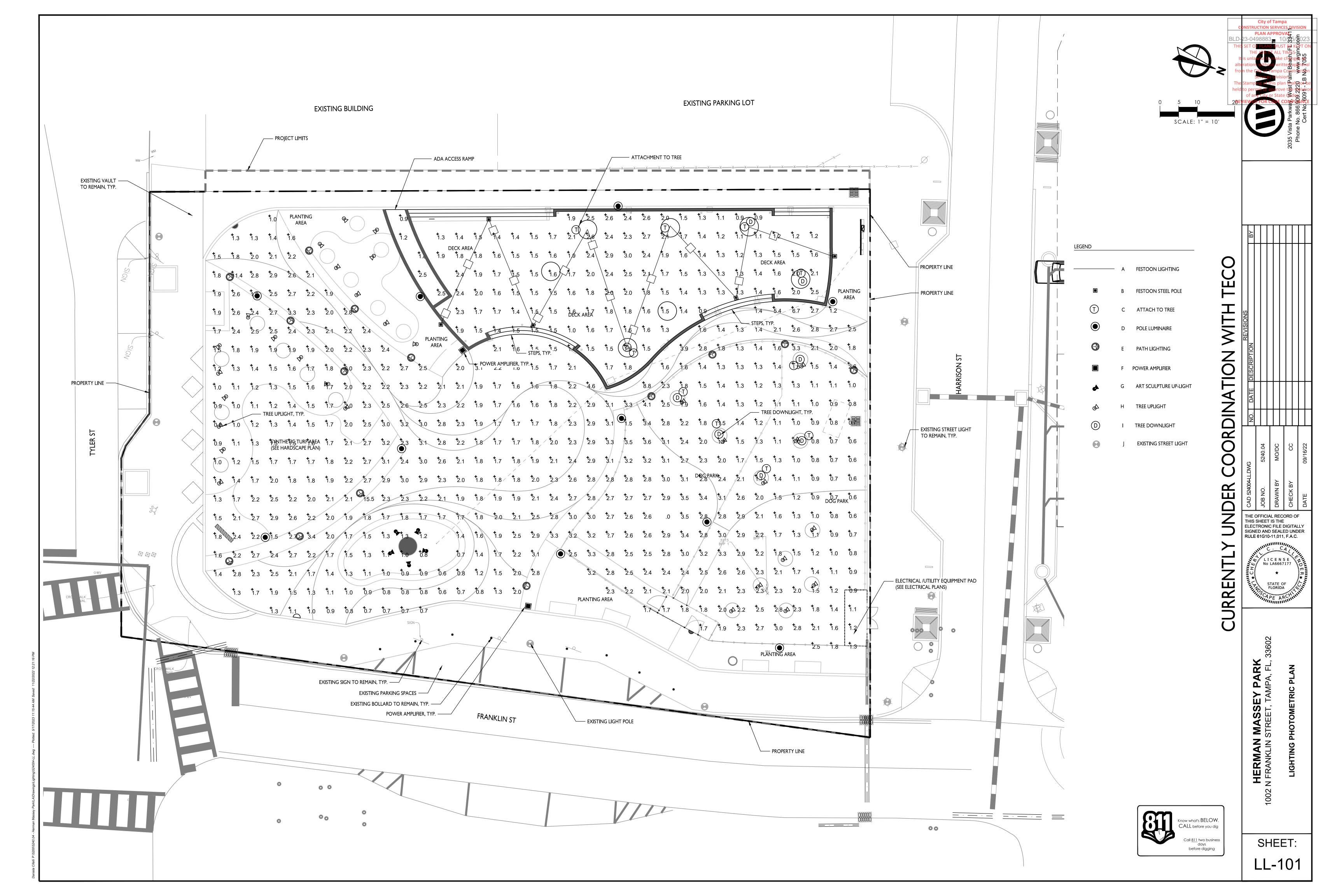


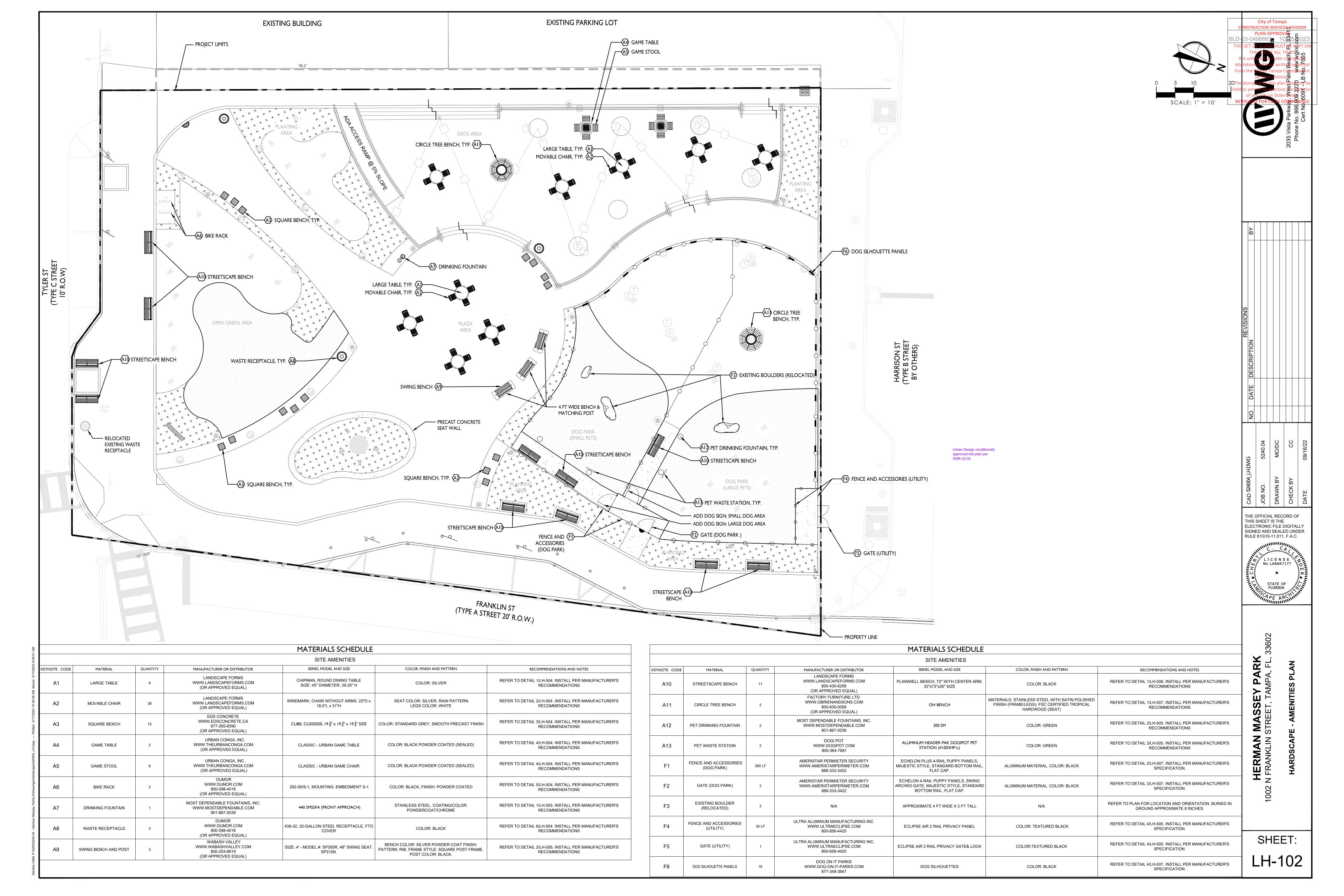








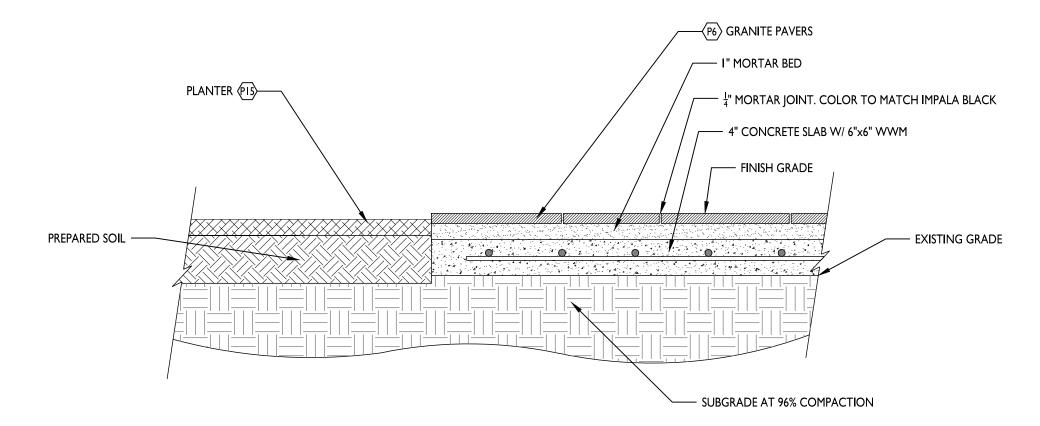




SCALE: I" = I' - 0'

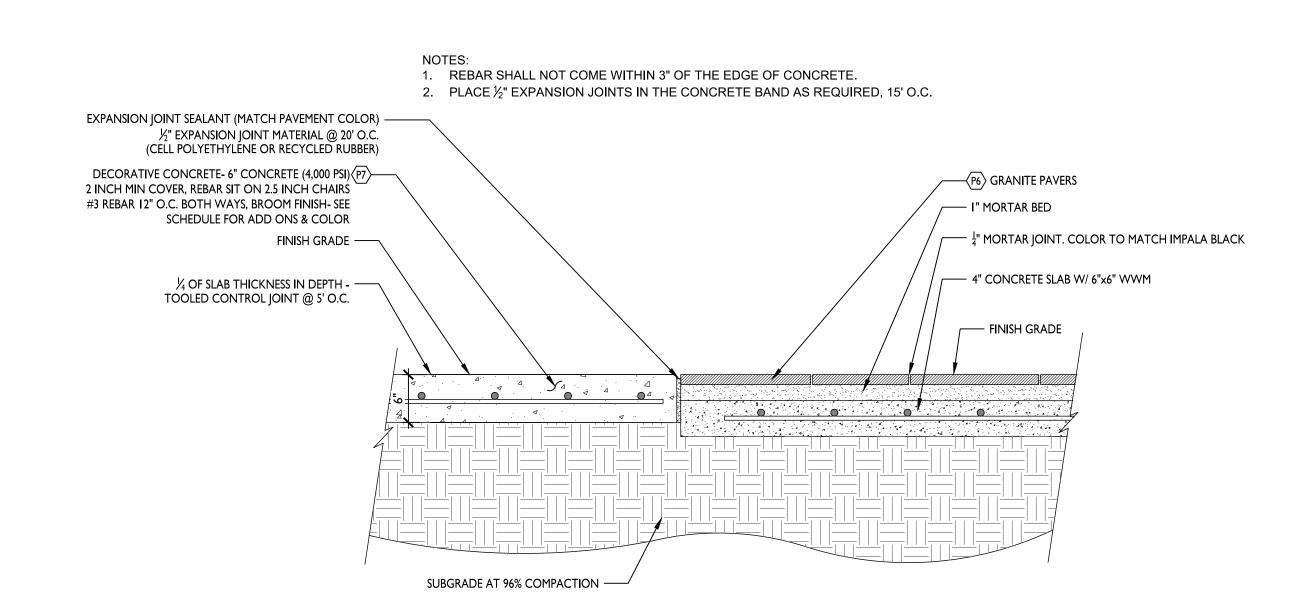
NOTES:
1. REBAR SHALL NOT COME WITHIN 3" OF THE EDGE OF CONCRETE.
2. PLACE ½" EXPANSION JOINTS IN THE CONCRETE BAND AS REQUIRED, 15' O.C.

CONCRETE SIDEWALK ADJACENT TO BRICK PAVERS TYPICAL DETAIL



REUSED GRANITE PAVERS ADJACENT TO PLANTING AREA TYPICAL DETAIL

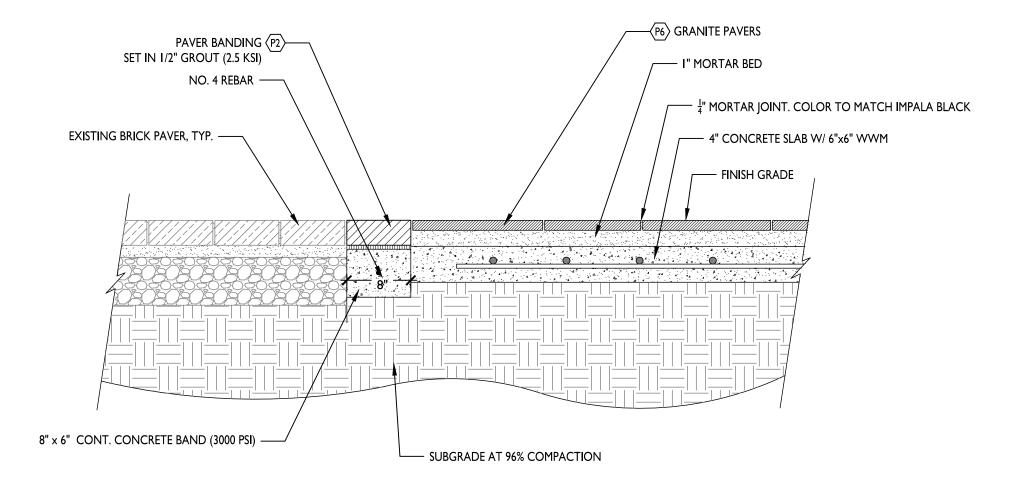
SCALE: I" = I' - 0"



PEUSED GRANITE PAVERS ADJACENT TO CONCRETE SIDEWALK TYPICAL DETAIL

SCALE: I" = I' - 0"

NOTES:
1. REBAR SHALL NOT COME WITHIN 3" OF THE EDGE OF CONCRETE.
2. PLACE ½" EXPANSION JOINTS IN THE CONCRETE BAND AS REQUIRED, 15' O.C.



4 REUSED GRANITE PAVERS ADJACENT TO EXISTING BRICK PAVERS TYPICAL DETAIL

SCALE: I" = I' - 0"

HERMAN MASSEY PARK 1002 N FRANKLIN STREET, TAMPA, FL,

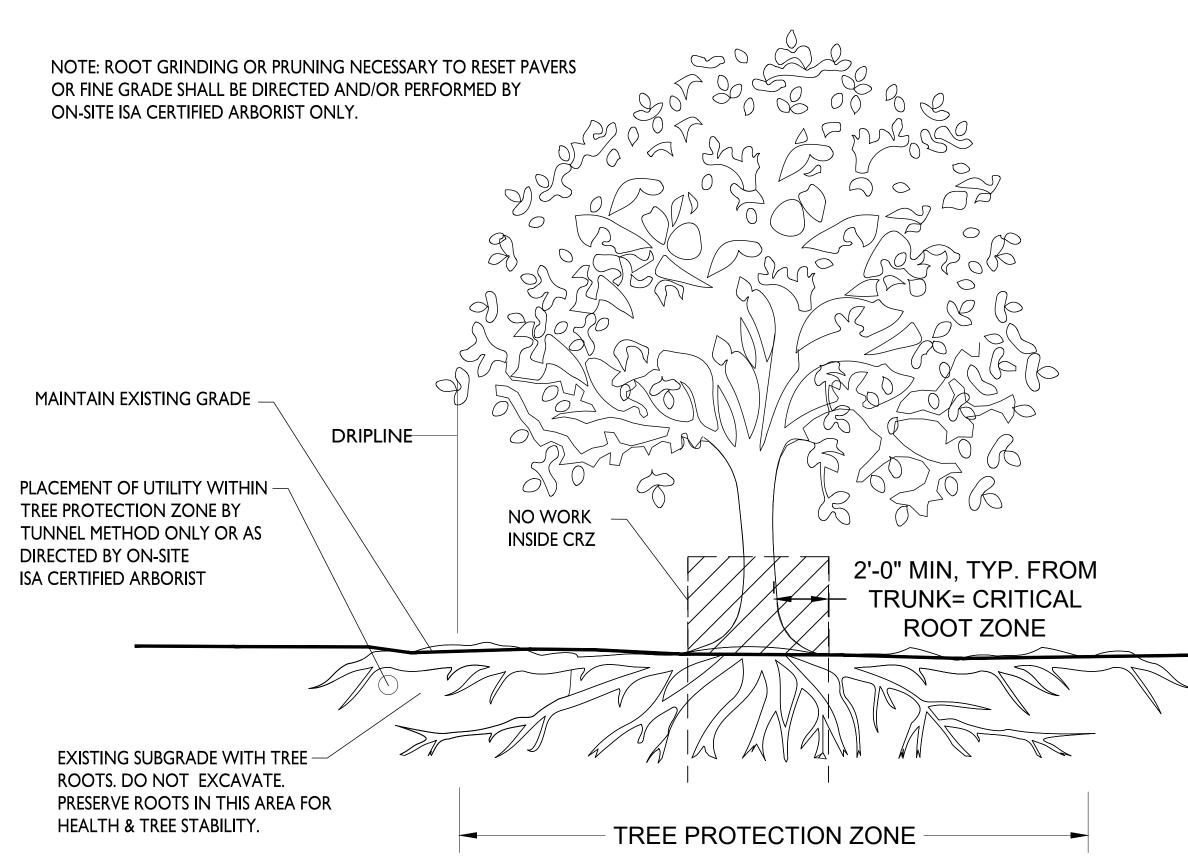
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SHEET: LH-500

TEMPORARY CONSTRUCTION FENCE FOR EXISTING TREES DURING DEMOLITION

N.T.S.



TREE PROTECTION **DURING CONSTRUCTION:**

I. DURING SITE CONSTRUCTION, A (3) INCH LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS AND WITHIN THE CRITICAL ROOT PROTECTION ZONE.

2. A MINIMUM DISTANCE OF (10) FEET FROM ALL PROTECTED TREES SHALL BE MAINTAINED WHEN INSTALLING UNDERGROUND UTILITIES. IF THIS RESULTS IN UNREASONABLE HARDSHIP, A SOIL AUGER SHALL BE USED TO TUNNEL UNDER THE ROOT SYSTEMS.

3. DO NOT DRIVE OR PARK HEAVY EQUIPMENT NEAR TREES.

4. INSTALLATION OF ARTIFICIAL BARRIERS SUCH AS PROTECTIVE BARRICADES, FENCES, POSTS OR WALLS SHALL NOT DESTROY OR IRREVERSIBLY HARM THE ROOT SYSTEM OF PROTECTED TREES. FOOTERS FOR WALLS SHALL END AT THE POINT WHERE LARGER ROOTS ARE ENCOUNTERED, AND THE ROOTS SHALL BE BRIDGED. POST HOLES AND TRENCHES LOCATED CLOSE TO PROTECTED TREES SHALL BE ADJUSTED TO AVOID DAMAGE TO MAJOR ROOTS.

5. ROOTS OVER (3) INCH IN DIAMETER REQUIRE APPROVAL FROM A CITY OF TAMPA CERTIFIED ARBORIST PRIOR TO PRUNING.

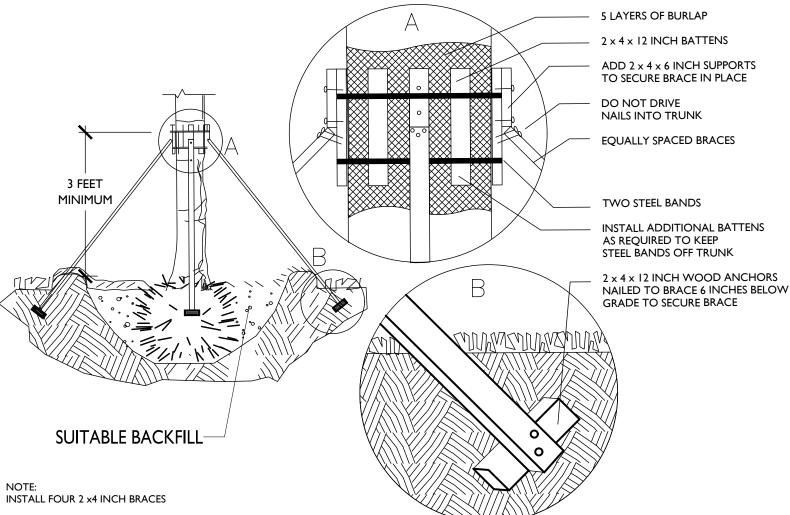
6. ANY PRUNING OF TREES SHALL BE DONE BY AN ON-SITE ISA CERTIFIED, LICENSED TREE SERVICE

7. PRUNING SHALL BE PERFORMED TO ANSI A300 STANDARDS.

8. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING DURING FENCE INSTALLATION AND REMOVAL.

9. HAND DIG AROUND ROOTS WITHIN THE TREE PROTECTION BOUNDARY.

10. SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.



BRACING REQUIREMENTS

TREE RELOCATION REQUIREMENTS:

I. ATTACH TREE IDENTIFICATION TAGS THAT MATCH THE PLAN NUMBERS. SUBMIT A SHOP DRAWING OF THE TAGGING METHOD TO THE DISTRICT LANDSCAPE ARCHITECT FOR REVIEW BEFORE THE PRECONSTRUCTION MEETING.

2.WATER THE ROOT ZONES TO FIELD CAPACITY FOR 5 CONTINUOUS DAYS BEFORE ROOT PRUNING.

3.ROOT PRUNE WITH EQUIPMENT TO SEVER ROOTS. ENSURE ROOTS ARE NOT TORN OR PULLED APART. SUBMIT ROOT PRUNING PROCEDURES BEFORE THE PRECONSTRUCTION MEETING.

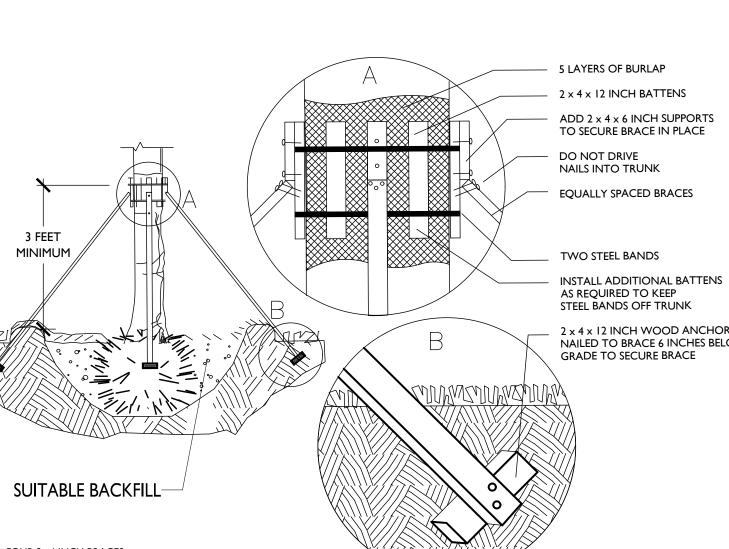
4.FORM A ROOTBALL SIZE IN COMPLIANCE WITH FLORIDA GRADES AND STANDARDS FLORIDA NUMBER ONE OR BETTER.

5.BRACE ROOT PRUNED TREES AWAITING RELOCATION.

6.INSTALL TREES WITHIN 24 HOURS OF REMOVAL FROM THEIR ORIGINAL LOCATION TO LOCATIONS PROVIDED. FILL HOLE AFTER TREE REMOVAL WITH SUITABLE MATERIAL

7.FOLLOW LANDSCAPE NOTES DESIGN STANDARDS FOR RELOCATED TREES.

8.REPLACE RELOCATED TREES THAT FALL BELOW THEIR ORIGINAL CONDITION WITH THE SAME SPECIES, SIZE, AND QUALITY, OR BETTER.



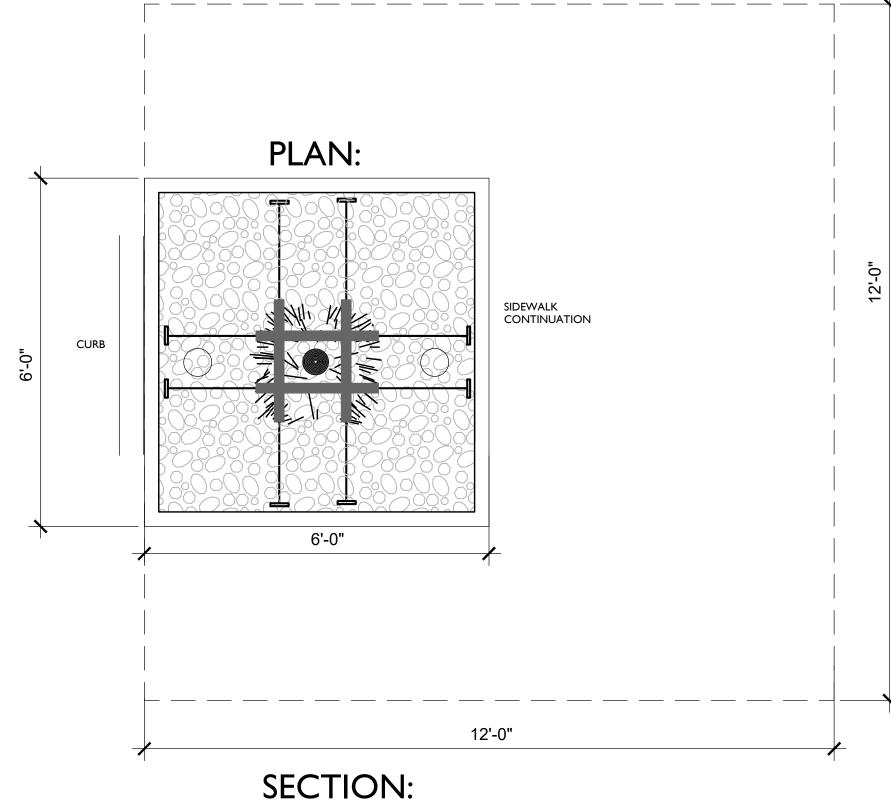
SEY T, TAN MAS: STREE ERMAN FRANKLIN S

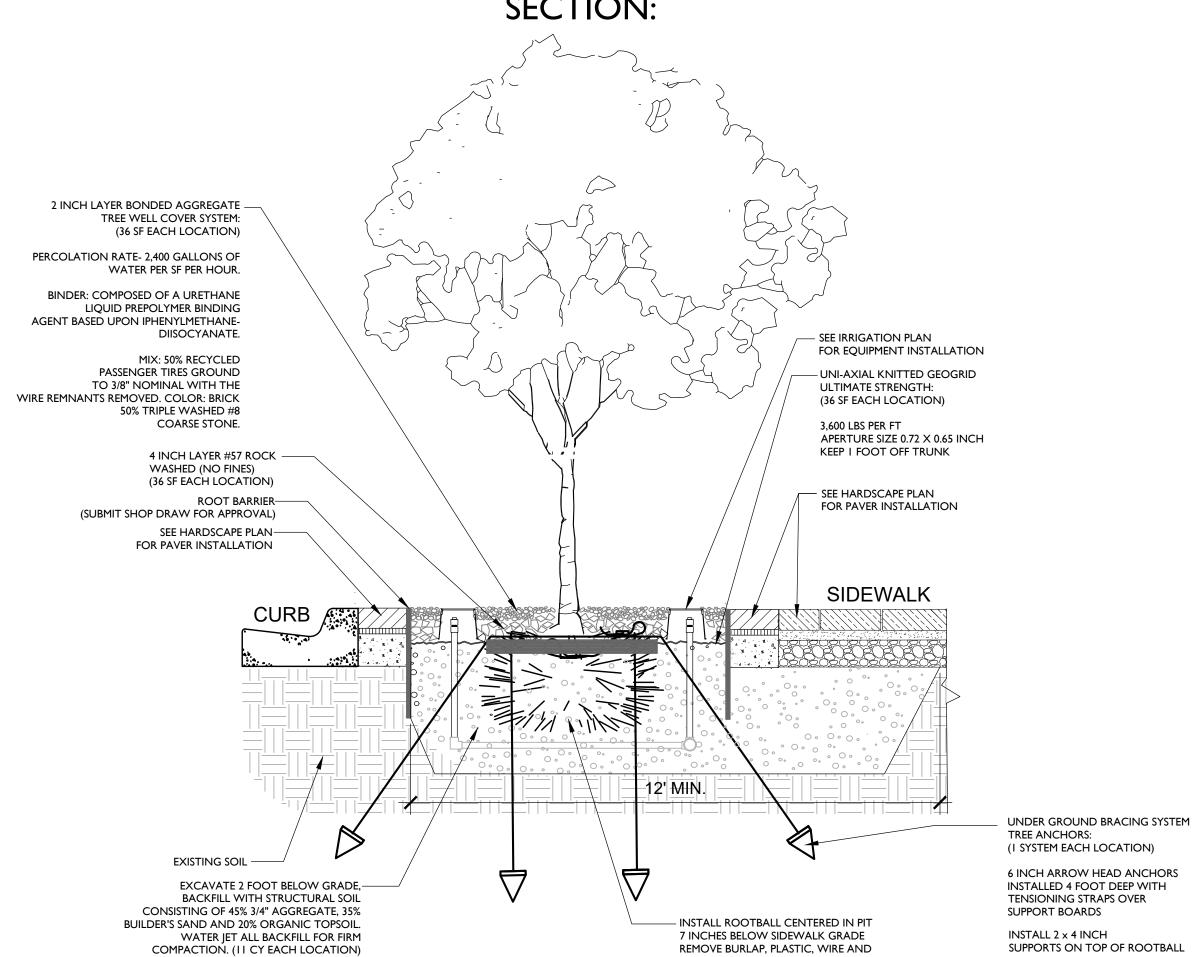
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SHEET:

LD-500

TREE PROTECTION OF EXISTING TREES DURING CONSTRUCTION





FABRIC FROM ROOTBALL

3/4 INCH TENSIONING

BUCKLE TENSIONER

STRAPS (2400 LBS TENSIBLE

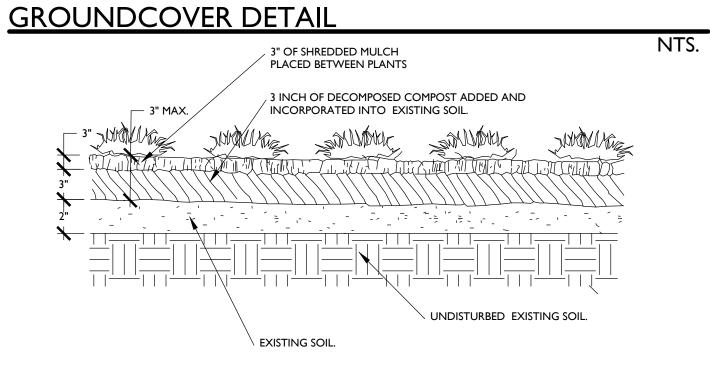
TIGHTENED WITH HEAVY DUTY

STRENGTH) AND BUCKLE MECHANICALLY

SHRUB AND GROUNDCOVER PLANTING DETAIL

EDGE FIRST TO ESTABLISH CONTINUOUS LINE. BEST FACE OF SHRUB TO FACE FRONT OF PLANTING BED. - MAINTAIN 12" AT PLANT BED EDGE

MAINTAIN 18" MIN. BETWEEN SHRUB MASSES



PLANT LAYOUT DETAIL NOTE: REFER TO PLANT SCHEDULE FOR SPACING NTS. PLANT SPACING CHART 12" O.C. 48" O.C.

SHRUB PLANTING DETAIL NTS. PLANT ROOTBALL MINIMUM OF I" ABOVE FINISHED GRADE, WITH A MAXIMUM OF 10% OF ROOTBALL EXPOSED ABOVE GRADE. 3" SHREDDED MULCH. PULL MULCH AWAY FROM TRUNK A MINIMUM OF 3". COMPLETELY REMOVE NURSERY CONTAINER BACKFILL PLANTING HOLE WITH MIX OF 50% DECOMPOSED COMPOST & 50% EXISTING SOIL.

LANDSCAPE NOTES:

I. STRUCTURAL ELEMENTS AND HARDSCAPE FEATURES INDICATED ON LANDSCAPE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. LANDSCAPE PLANS ARE TO BE UTILIZED FOR LOCATION OF LIVING PLANT MATERIAL ONLY. LANDSCAPE PLANS SHOULD NOT BE UTILIZED FOR STAKING AND LAYOUT OR LOCATION OF ANY STRUCTURAL SITE FEATURES INCLUDING BUT NOT LIMITED TO: BUILDINGS, SIGNAGE, PATHWAYS, EASEMENTS, BERMS, WALL, FENCES, UTILITIES OR ROADWAYS.

2. CONTRACTOR SHALL ACQUIRE ALL APPLICABLE FEDERAL, STATE, LOCAL, JURISDICTIONAL OR UTILITY COMPANY PERMITS REQUIRED PRIOR TO REMOVAL, RELOCATION, AND/OR INSTALLATION OF LANDSCAPE MATERIALS INDICATED WITHIN PLAN DOCUMENTS. THE CONTRACTOR SHALL HAVE PERMITS "IN HAND" PRIOR TO STARTING WORK, LANDSCAPE ARCHITECT SHALL BEAR NO RESPONSIBILITY FOR WORK PERFORMED WITHOUT PERMITTED DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES TO THE WORK, AT NO ADDITIONAL COST TO THE OWNER, AS A RESULT OF UNAUTHORIZED WORK PRIOR TO RECEIPT OF PERMIT.

- 3. TREES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY. TREE SPACING IS BASED ON DESIGN REQUIREMENTS AND THE TREES SHOWN ON THESE PLANS ATTEMPT TO ACCOMPLISH THAT SPACING WHILE MAINTAINING THE REQUIRED SETBACKS FROM UTILITIES. IN THE EVENT OF A CONFLICT, AFFECTED PLANT MATERIAL SHALL BE FIELD ADJUSTED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT TO AVOID CONFLICTS WITH THE WITH EXISTING AND PROPOSED UTILITIES, LIGHT POLES, DRAINAGE STRUCTURES OR LINES, OR OTHER AFFECTED SITE FEATURES.
- 4. ANY PLANTING WITHIN THE SIGHT TRIANGLES SHALL PROVIDE UNOBSTRUCTED VIEWS AT A LEVEL BETWEEN 30" AND 8' ABOVE THE PAVEMENT.
- 5. ALL UTILITY BOXES/ STRUCTURES TO BE SCREENED ON 3 SIDES W/ APPROVED PLANTING MATERIAL. 6. IRRIGATION IS REQUIRED PROVIDING 100% COVERAGE WITH A MAXIMUM OF 50% OVERLAP, AN AUTOMATIC RAIN SENSOR MUST BE INCLUDED.
- 7. IN CASE OF DISCREPANCIES PLANS TAKE PRECEDENCE OVER PLANT LIST.
- 8. LANDSCAPE CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ALL QUANTITIES PRIOR TO BIDDING.
- 9. REMOVAL OF EXISTING VEGETATION IS RESPONSIBILITY OF LANDSCAPE CONTRACTOR.
- 10. RELOCATION OF EXISTING VEGETATION IS RESPONSIBILITY OF LANDSCAPE CONTRACTOR. II. ALL PLANT MATERIAL TO BE FLORIDA GRADE #1 OR GREATER AT TIME OF INSTALLATION.
- 12. SUBMIT SHOP DRAWINGS OF ALL MATERIALS SHOWN FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.



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SHEET:



LS-CABLE-60 Catenary Cable Kit - 60'
(1/8" cable includes 2 cables locks for use with loads up to 200lbs)
LS-CABLE-110 Catenary Cable Kit - 110'
(1/8" cable includes 2 cables locks for use with loads up to 200lbs)
LS-CABLE-500 Catenary Cable Kit - 500'
(1/8th inch cable for use with loads up to 200lbs)

Mounting Accessories

LS-LOCK-4 Cable Lock
Cable Lock for 1/8th inch cable, Heavy-duty lockable fasteners support loads up to 330 lbs. Can be easily adjusted without the use of tools. Includes (4) Locks, (1)

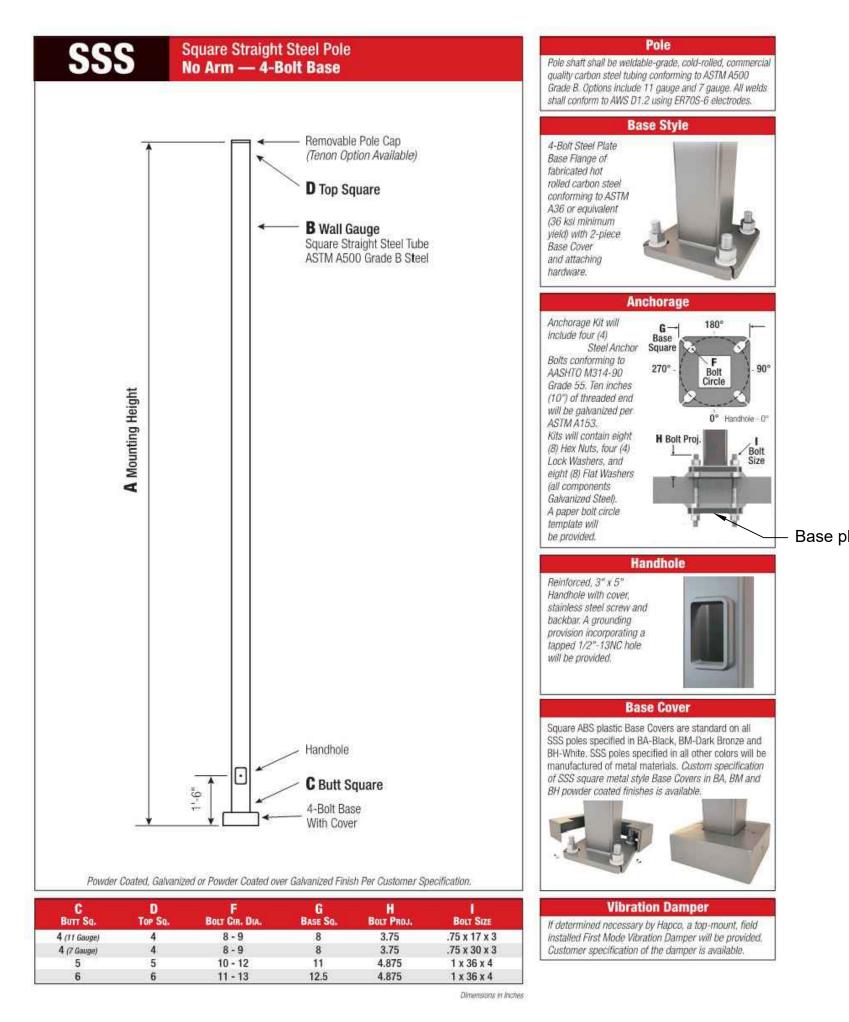
cable release key.



LS-TT Catenary Tensioning Tool
Catenary Cable Tensioning Tool up to 880lbs with
minimal effort due to the 6-1 gear drive mechanism.
Integral torque gauge controls the load applied to the
wire, giving consistent tension every time and optimizing

B FESTOON LIGHT POLE OR APPROVED EQUAL

(hapto www.hapco.com



WARNING: Do not install light pole without luminaire.



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TRAS_TRBS | Rev. 05/17/21 Page 1 of 2 HERMAN MASSEY PARK
1002 N FRANKLIN STREET, TAMPA, FL,

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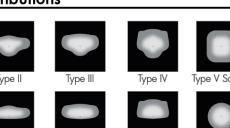
RULE 61G10-11,011, F.A.C.

THIS SHEET IS THE

SHEET:

LL-500

Distributions



Colors and Color Temperatures

2200K	2700K	3000K	3500K	4000K	5700
Contr	ols				

ON/OFF 0-10V

IP66 (optical chamber)

Certifications

s	YEAR'S	

Color and Color Temperature 3000K Type II, Type III or Type IV (with or without backlight shield), Type 5 square and Type V Softsite Corrosion-resistant coating for hostile environments, Surge protector, 5-Pin Receptacles with and without shorting cap, 7-Pin Receptacles with and without shorting cap Post-Top (4 in Tenon Adaptor) 5-year limited warranty <u>Performance</u> Output (nominal lumens) Minimum 3000lm / Maximum 20000lm **Color Rendering** 3 SDCM for CRI 70+ and 2 SDCM for CRI 80+ Lumen Maintenance TM-21 L70 527,000 hrs (projected, Ta 77 °F), 36,000 hrs (reported, Ta 77 °F) Dark Sky Dark sky compliant (2200K, 2700K and 3000K color temperatures, BUG rating of U0) Die cast low copper 360 aluminum alloy **Housing Material** Painted copper Spun Cupola Finish Optical tempered clear glass (Clearsite lens) Lens Material pure Up to 40.5 lbs Pure Y Weight

the night sky.

pure Pure Y

Energy efficient and designed to limit up-light, the Pure Y is a

versatile solution for a range of urban lighting applications, creating unique outdoor environments, while also protecting

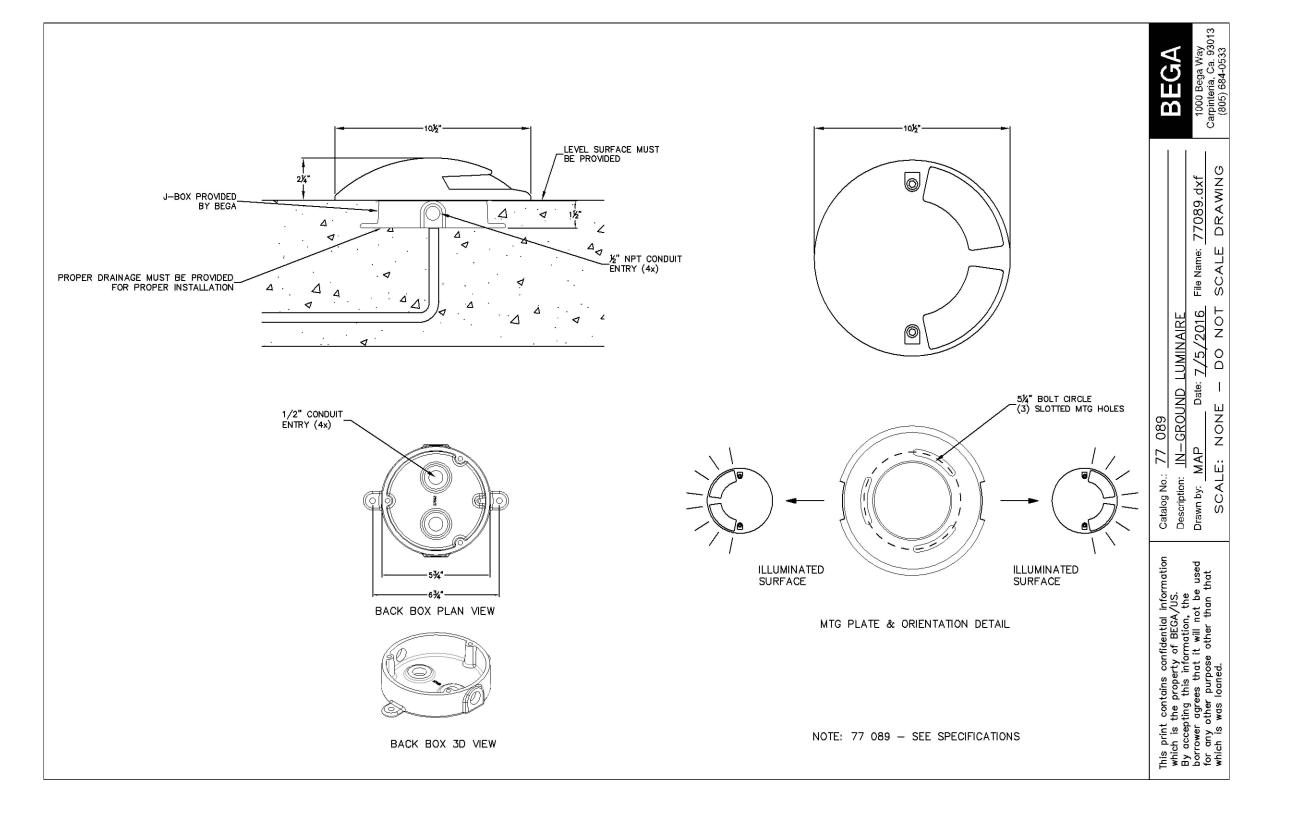
Weight	Up to 1.31 sq ft
EPA	
Surface Finish	Super durable resistant exterior polyester powder coating meet AAMA 2604-98 requirements (5-years Florida exposure), a corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance).
Electrical and control	
Voltage	120 volts, 277 volts
Control	0.10V dimming

Specific	ation She	et		Control			0-10V din	nming			
How to or	der										
Housing (1)	Voltage	Lens	Output (nominal lumens)	Color and Color Temperature ⁽⁷⁾	Color Rendering	Distributions	Finish	Spun Cupola Finish ⁽¹⁴⁾	Control	Options	Mounting Options
PUR100Y Pure 100Y	120 120 volts 277 277 volts	CSL Clearsite lens	M80 8000lm	30K 3000K	CRI 80 CRI 80+ (10)	5S Type V square	BK Black Sandtex®		DIM 0-10V dimming (15)		TN4 Post-Top (4 in Tenon Adaptor)

lumenpulse™	1220 Marie-Victorin Blvd., Lo info@lumenpulse.com	•	T United States 617.307.5700 Canada 1.877.937.3003 514.937.3003 www.lumenpuke.com/products/2172	F 514.937.6289

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SURFACE MOUNTED LED MARKER LIGHT OR APPROVED EQUAL



Drive-over surface-mounted luminaires to illuminate ground surfaces

Outer Housing: Constructed of high tensile strength, copper free diecast aluminum alloy with two (2) light openings. Slotted, stainless steel base plate allows top casting to rotate to any orientation. Die castings are marine grade, copper free (≤ 0.3% copper content) A360.0 aluminum

Enclosure: One piece heavy duty die cast aluminum body with clear borosilicate lens. Reflector of pure anodized aluminum. All aluminum used in the construction is marine grade and copper free. All fasteners are stainless steel. Two (2) molded, one piece, high temperature silicone gaskets on top and bottom of the lens. Electrical: Standard LED color temperature is 3000K.

Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Mounting: Stainless steel luminaire base plate allow for up to 50° of base plate rotation. Note: The luminaires must not be installed in traffic lanes where

they are subject to horizontal pressure from vehicles braking, accelerating and changing direction. A foundation must be supplied by the contractor designed to bear the static pressure loads from vehicles with pneumatic tires. The luminaires are designed to withstand a static load of 2,200 lbs.

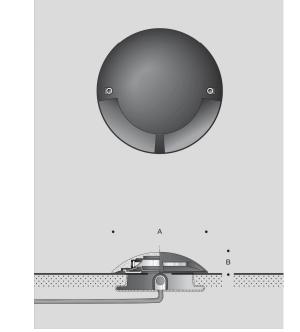
Finish: polyester powder coat with minimum 3 mil thickness. Available in standard BEGA Black (BLK). CSA certified to U.S. standards for wet locations. Protection class IP67 Weight: 6.4 lbs.

BEGA Product: Project: Voltage: Color: Options: Modified:



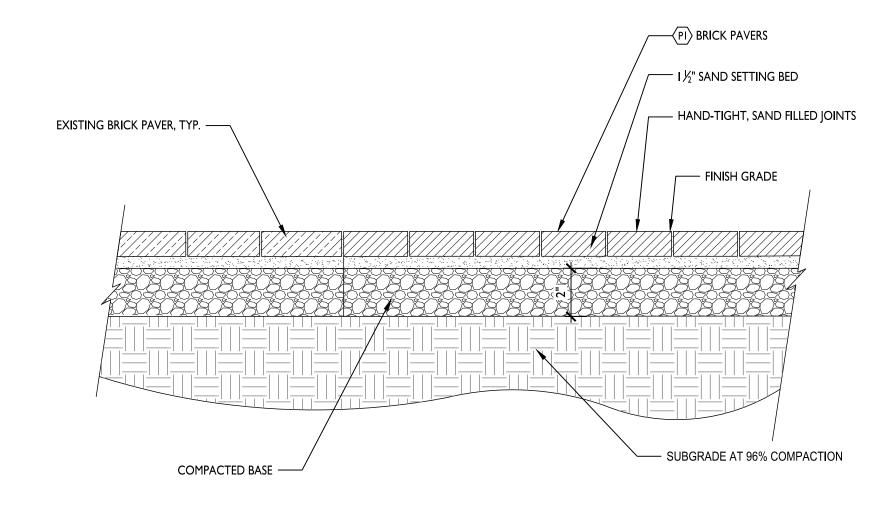


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BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805) 684-0533 FAX (805) 566-9474 www.bega-us.com

SHEET:



BRICK PAVERS ADJACENT TO EXISTING BRICK PAVERS TYPICAL DETAIL SCALE: I" = I' - 0"

NOTES:

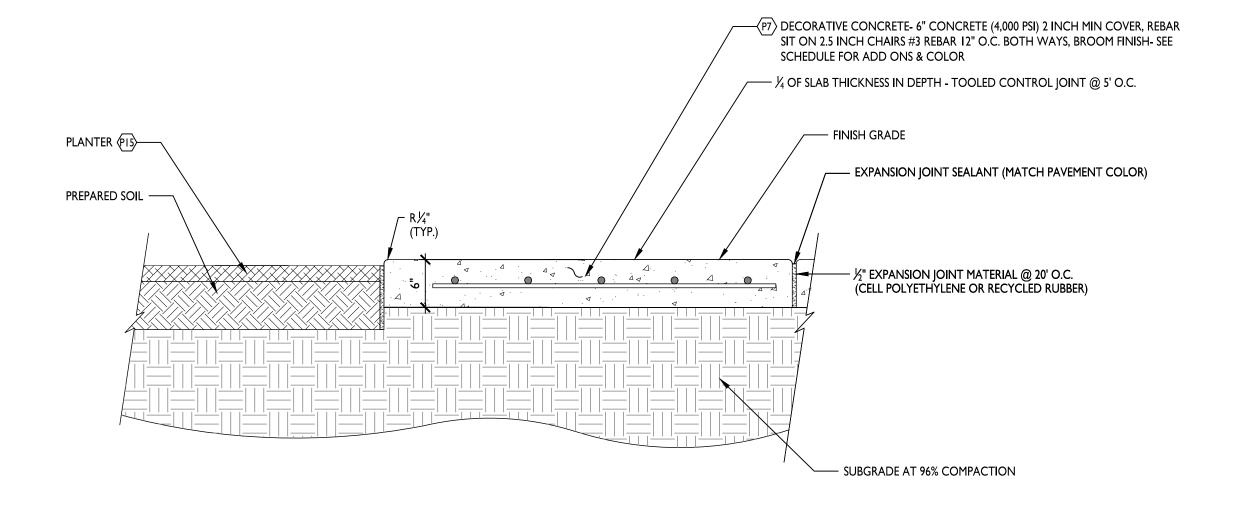
1. CONCRETE CASTS SHALL BEGIN AND END AT EXPANSION JOINTS. 2. CONSTRUCT EXPANSION JOINTS AT SPECIFIED SPACING, AT POINT OF

CURVATURE, AT VERTICAL ELEMENTS AND AT END OF DAYS WORK.

3. ALL EDGES SHALL BE TOOLED TO 1/4" RADIUS, UNLESS NOTED OTHERWISE.

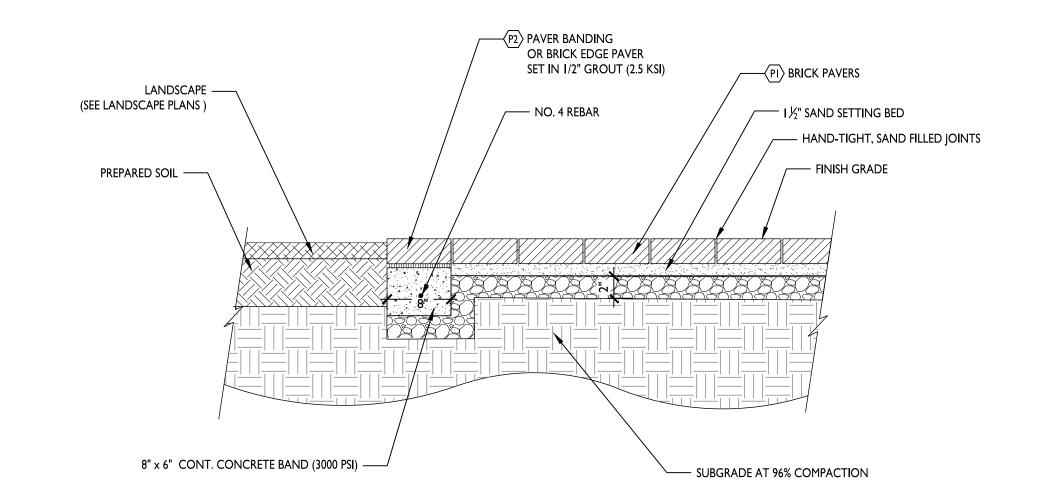
4. CONCRETE SLAB TO BE REINFORCED WITH STEEL FIBER MESH. REBAR SHALL NOT COME WITHIN 3" OF THE EDGE OF CONCRETE.

6. PLACE ½" EXPANSION JOINTS IN THE CONCRETE BAND AS REQUIRED, 15' O.C.



CONCRETE SIDEWALK ADJACENT TO PLANTING AREA TYPICAL DETAIL SCALE: I'' = I' - O''

1. REBAR SHALL NOT COME WITHIN 3" OF THE EDGE OF CONCRETE. 2. PLACE ½" EXPANSION JOINTS IN THE CONCRETE BAND AS REQUIRED, 15' O.C.



BRICK PAVERS ADJACENT TO PLANTING AREA TYPICAL DETAIL SCALE: |" = |' - 0"

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HERMAN MASSEY PARK N FRANKLIN STREET, TAMPA, FL, 3

SHEET: LH-501



The "Marina Mate SS" is a stylish and economical alternative to the full-sized "Harbor Light SS" power pedestal. This unit is the ideal choice for the smaller marina or personal docks with smaller power demands. It can be outfitted with receptacles and circuit breakers to serve as a full-fledged power pedestal, or simply as an attractive luminaire to complement the marina or landscape



STANDARD DIMENSIONS: 30"H 8"W 8"D

STANDARD FEATURES

- Intertek-ETL Listed, tested in accordance with Underwriters Laboratories-231 standards, CAN/CSA Standard C22.2 No.29 and
- Rugged, long-lasting 16-gauge 316L stainless steel NEMA 3RX main
- Highest quality twist-lock receptacles & circuit breakers. Patented pivoting faceplate assembly, which simplifies installation and field-maintenance tasks such as replacing circuit breakers, receptacles or meter current transformers.
- Photocell-controlled LED light fixture with fuse protection. 140-Amp rated copper stud-lug single phase 125/250V terminal block. Polycarbonate weatherproof covers.

OPTIONAL FEATURES

- Receptacle Options: 20A, 125V Duplex GFCI.
 20A, 125V L5-20R Twist-Lock Shorepower. 30A, 125V L5-30R Twist-Lock Shorepower. 50A, 125V SS-1 Twist-Lock Shorepower.
- 50A, 125/250V SS-2 Twist-Lock Shorepower. Ground fault circuit breakers Solid-state electric monitoring for sub-metering kWH
- Wireless NUCORE™ remote meter reading. Ground Fault Monitoring at each slip (patented). 140-Amp rated copper stud-lug three phase 125/250Y
- ¾" IPS ball valve hose bibs.
- Hose bib vacuum breakers.

consumption.

 Phone, Cable TV, and/or Data ports Amber or Clear Polycarbonate Lens.





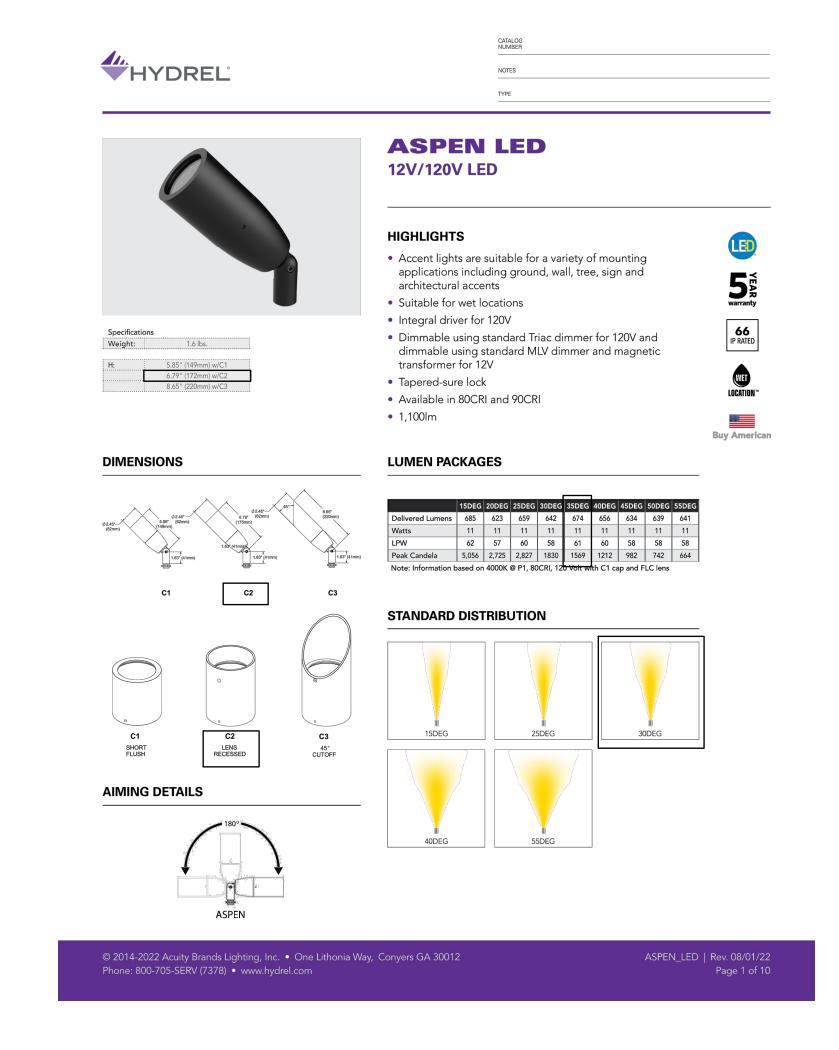




GROUND MOUNTED LED ACCENT LUMINAIRE - UPLIGHT FOR ART SCULPTURE OR APPROVED EQUAL



TREE AND GROUND MOUNTED LED ACCENT LUMINAIRE - UPLIGHT & DOWNLIGHT OR APPROVED EQUAL



PLAN APPROVA

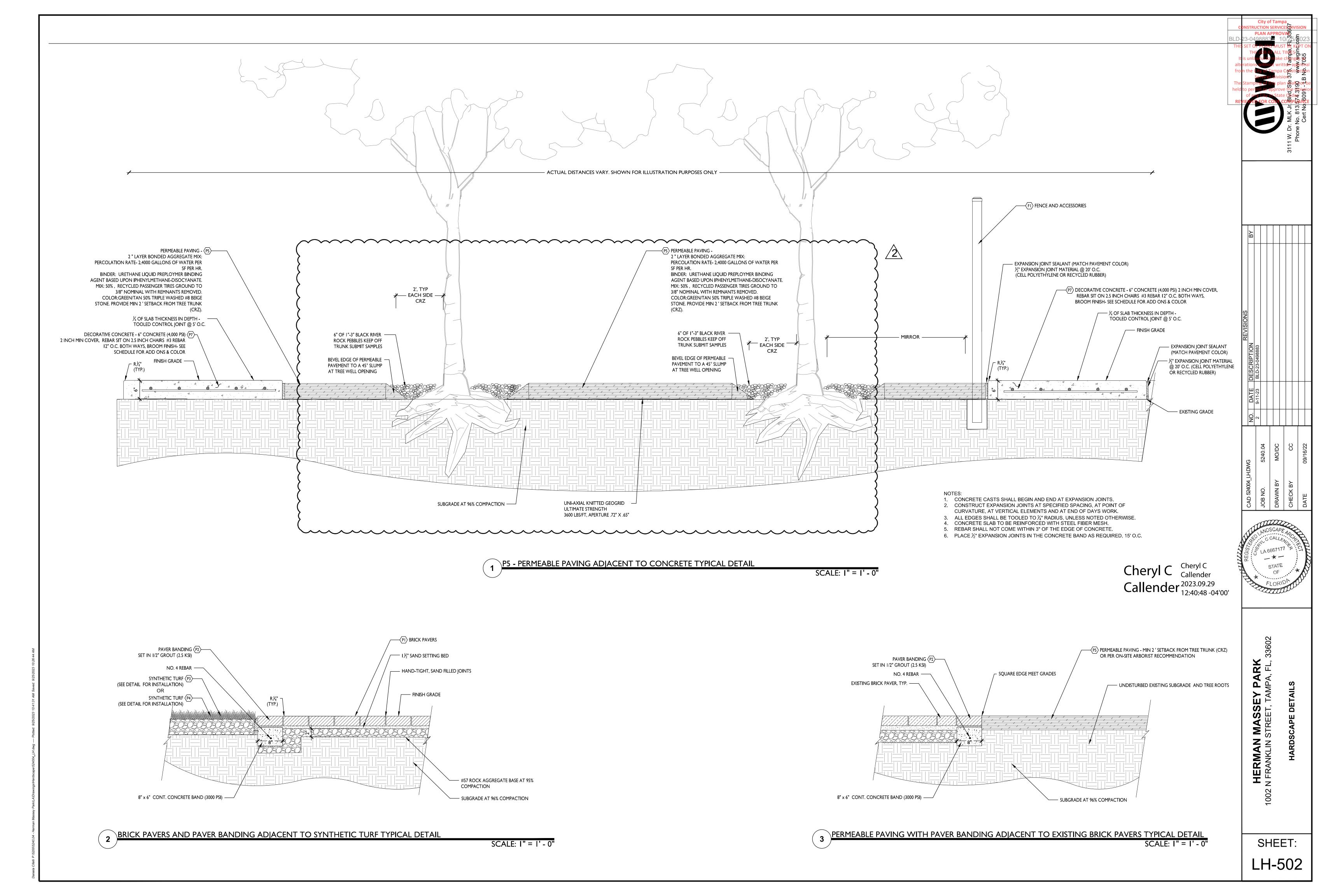
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N MASSEY PARK I STREET, TAMPA, FL, 3 HERMAN I 1002 N FRANKLIN S

SHEET:

LL-502



SHEET:

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SYNTHETIC TURF - DOG PARK AREAS (P3) K9GRASS CLASSIC: POLYETHYLENE SLIT FILM W/ HEAT SET TEXTURED NYLON MONOFILAMENT 17/8" BLADES W/ANTIMICROBIAL PROTECTION COLOR: SUMMER GREEN W/ TURF GREEN. YARN: PRIMARY 5000/4 SECONDARY 4200/8 BACKING: PREMIUM FLOW-THROUGH BACKING SYNTHETIC TURF - PLAY AREAS (P4) FOREVERLAWN SELECT HD: POLYETHYLENE MONOFILAMENT MEMORY FIBER W/ HEAT SET TEXTURED NYLON MONOFILAMENT I 3/4" BLADES COLOR: CLOVER GREEN W/ TURF GREEN & DARK TAN YARN: PRIMARY 10800/6 SECONDARY 5040/12 BACKING: 3 LAYER PREMIUM FLOW-THROUGH BACKING INFILL: TCOOL COATED SAND METAL LANDSCAPE ----EDGING AS NEEDED AGAINST LANDSCAPE / OTHER SURFACES GROUND CONTACT TREATED LUMBER 2"X4" NAILER \neg BOARD MOUNTED $\frac{3}{4}$ " BELOW ADJACENT CONCRETE AND SECURED W/ CONCRETE FASTNERS AGAINST CONCRETE / OTHER SURFACES., TYP 3" OF 3/8" ANGULAR STONE — WASHED (NO FINES) 95% COMPACTION

SCALE: |" = |' - 0"

P3 & P4 SYNTHETIC TURF TYPICAL DETAIL

ALL ITEMS ARE AS SHOWN OR APPROVED EQUAL.
 SUBMIT SHOP DRAWINGS AND SAMPLES OF ALL MATERIALS / FINISHES FOR

P5 PERMEABLE PAVING TYPICAL DETAIL

UNI-AXIAL KNITTED GEOGRID ULTIMATE STRENGTH

3600 LBS/FT, APERTURE .72" X .65"

P5 PERMEABLE PAVING - PERKEPAVE (OR APPROVED EQUAL):

PROVIDE MIN 2 ' SETBACK FROM TREE TRUNK (CRZ).

PERCOLATION RATE- 2,4000 GALLONS OF WATER PER SF PER HR.

BINDER: URETHANE LIQUID PREPLOYMER BINDING AGENT BASED UPON

MIX: 50%, RECYCLED PASSENGER TIRES GROUND TO 3/8" NOMINAL WITH REMNANTS REMOVED. COLOR:GREEN/TAN 50% TRIPLE WASHED #8 BEIGE

BEVEL EDGE TO A 45° SLUMP
AT TREE WELL OPENING

SCALE: | " = | ' - 0'

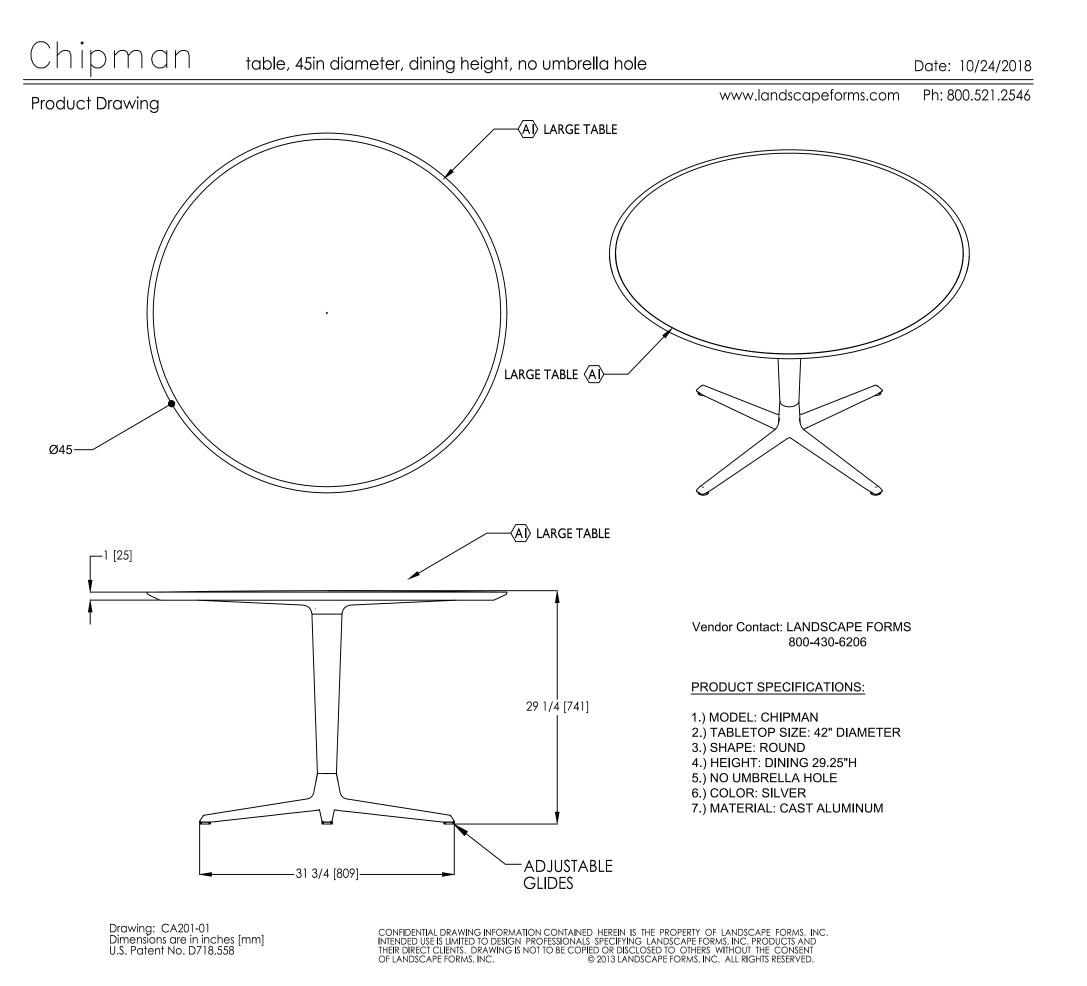
2 " LAYER BONDED AGGREGATE MIX:

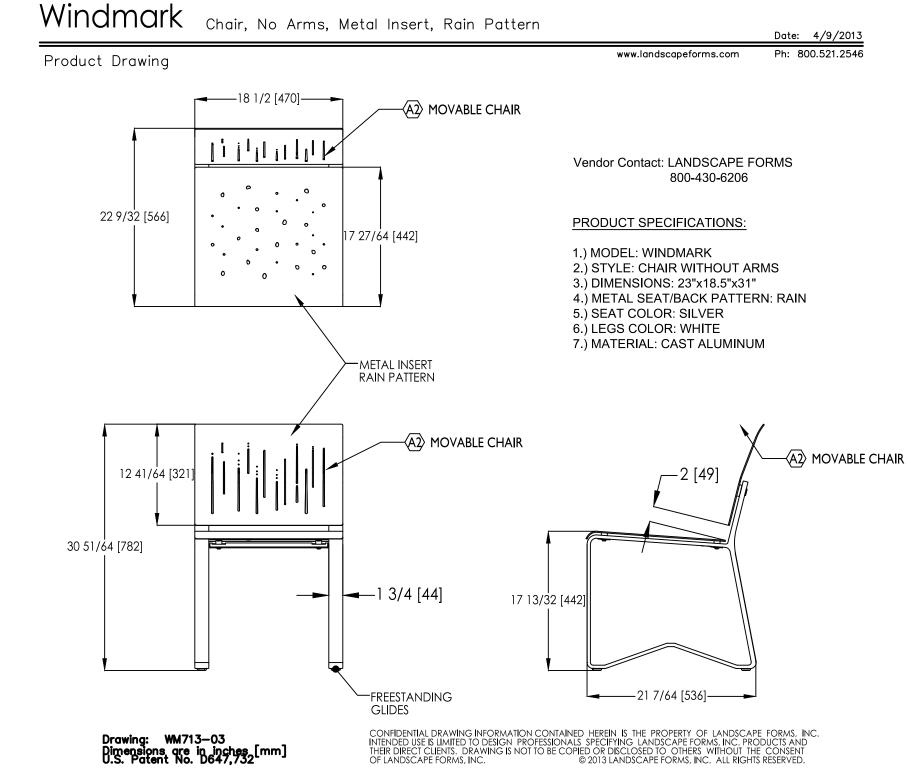
IPHENYLMETHANE-DISOCYANATE.

STONE, SUBMIT SAMPLES

ALL ITEMS ARE AS SHOWN OR APPROVED EQUAL.
 SUBMIT SHOP DRAWINGS AND SAMPLES OF ALL MATERIALS / FINISHES FOR

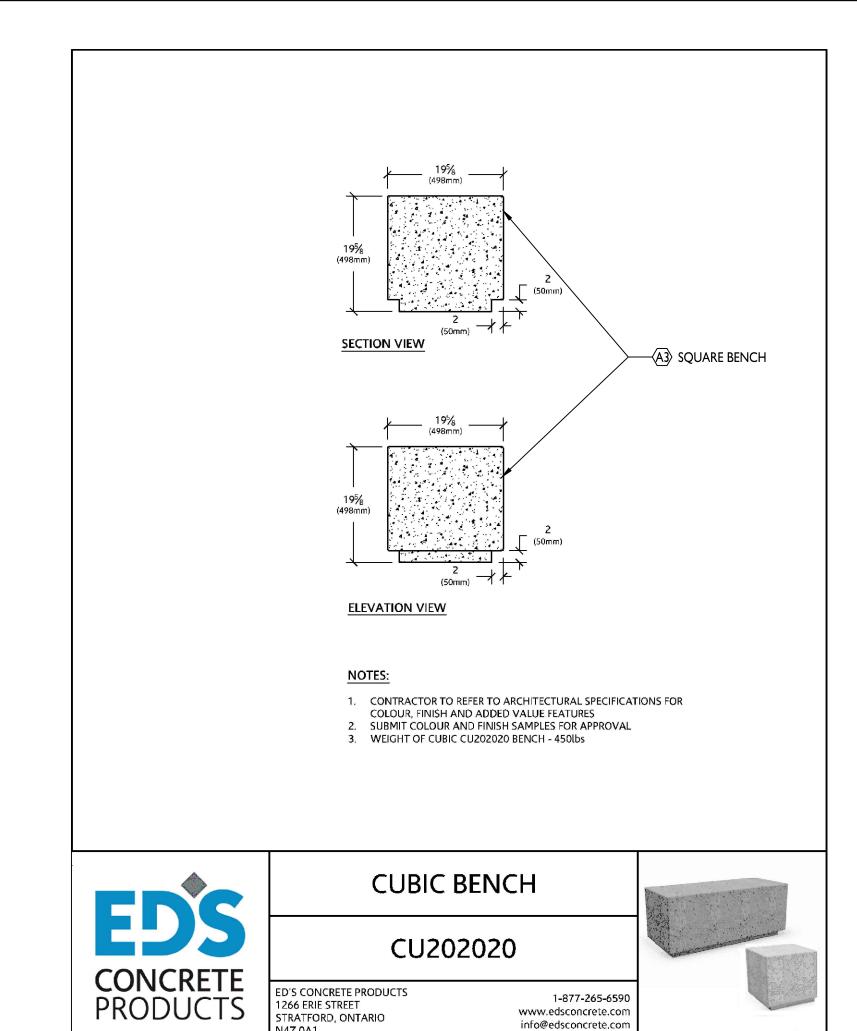
FLUSH AGAINST EDGE, NO GAP ——



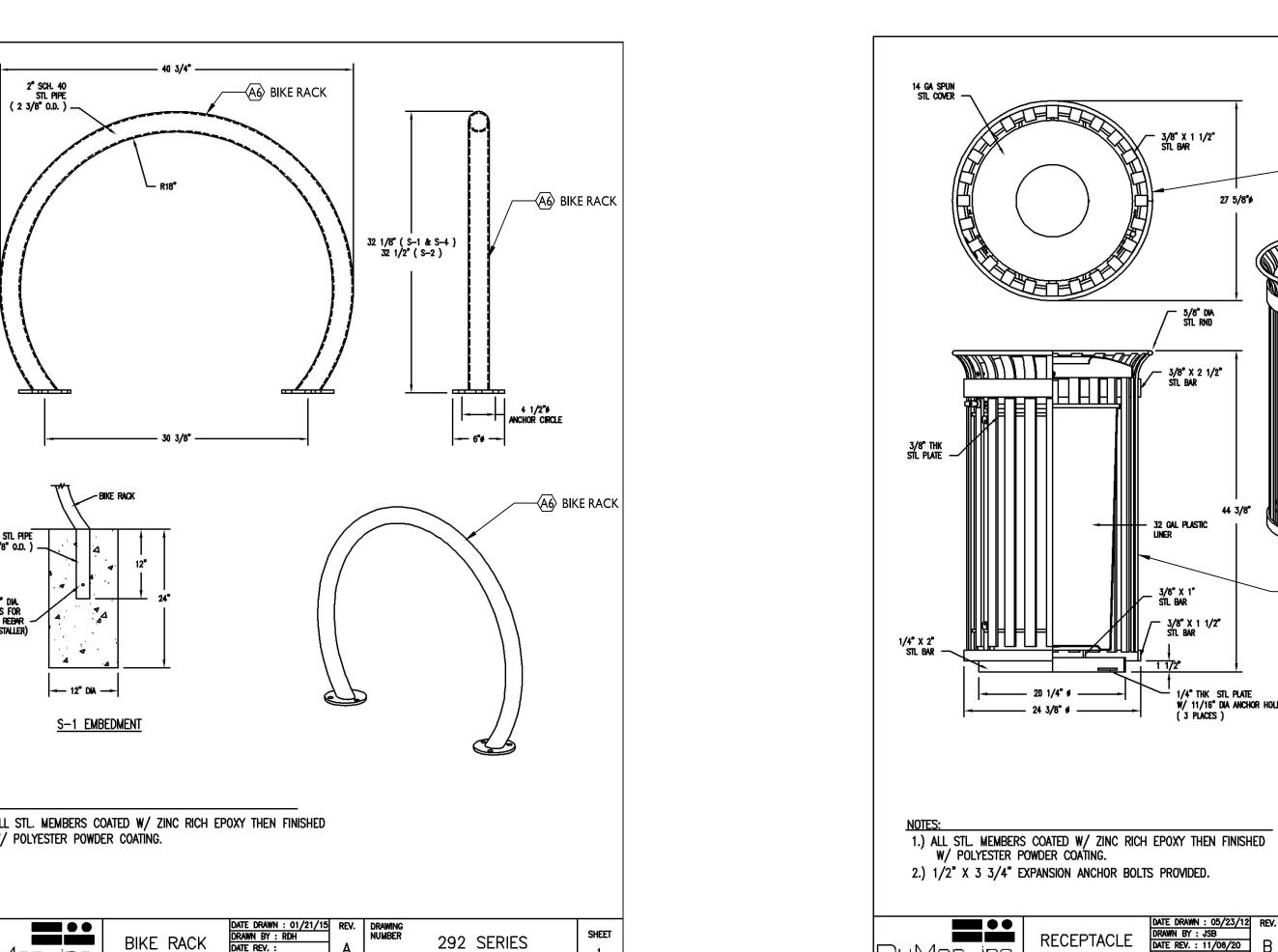


A2 MOVABLE CHAIR DETAIL

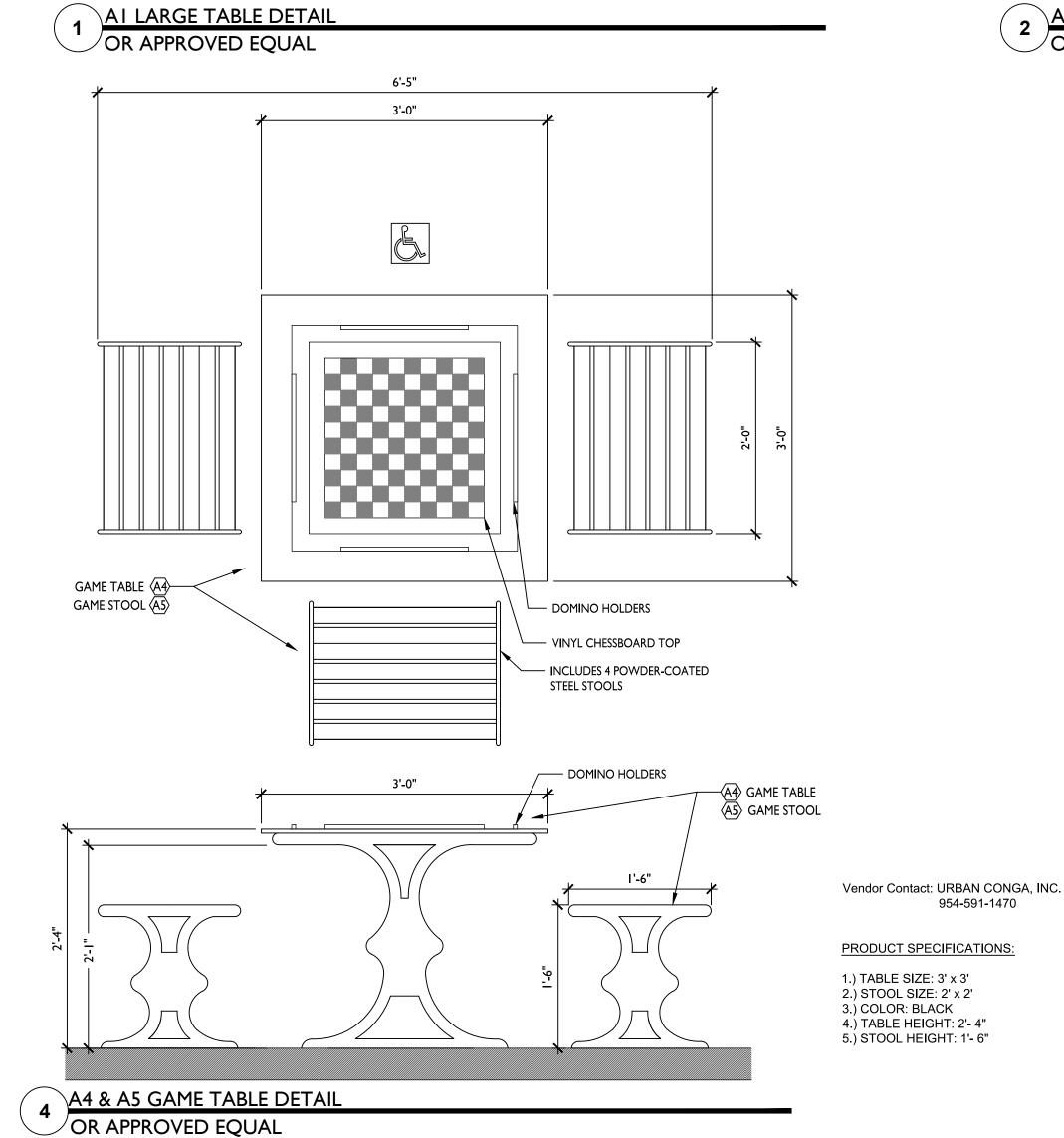
OR APPROVED EQUAL

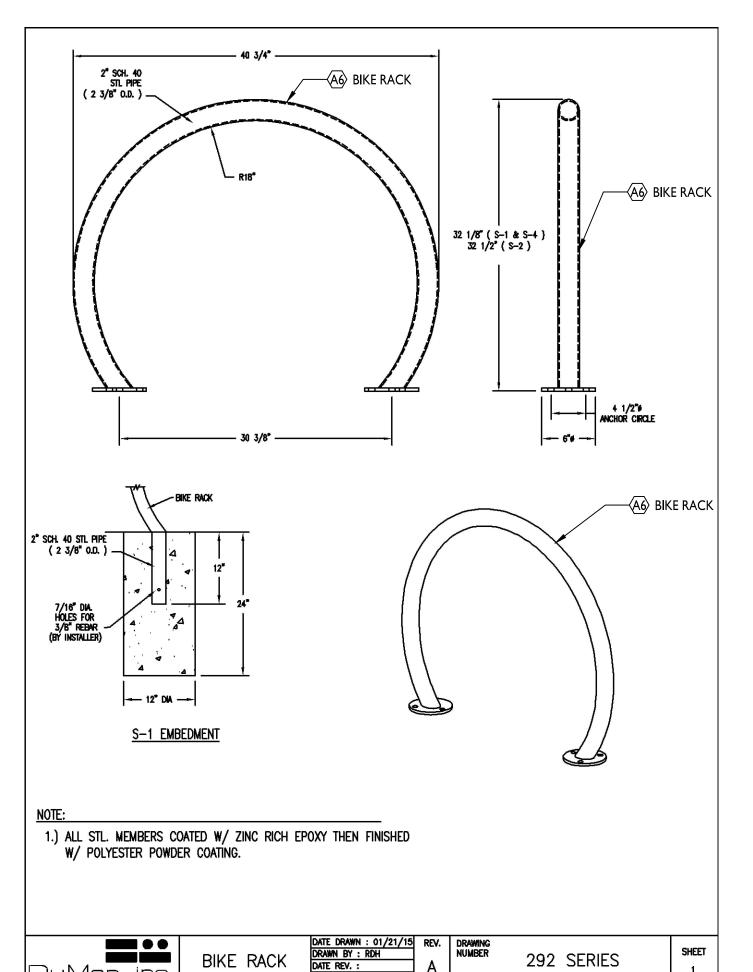






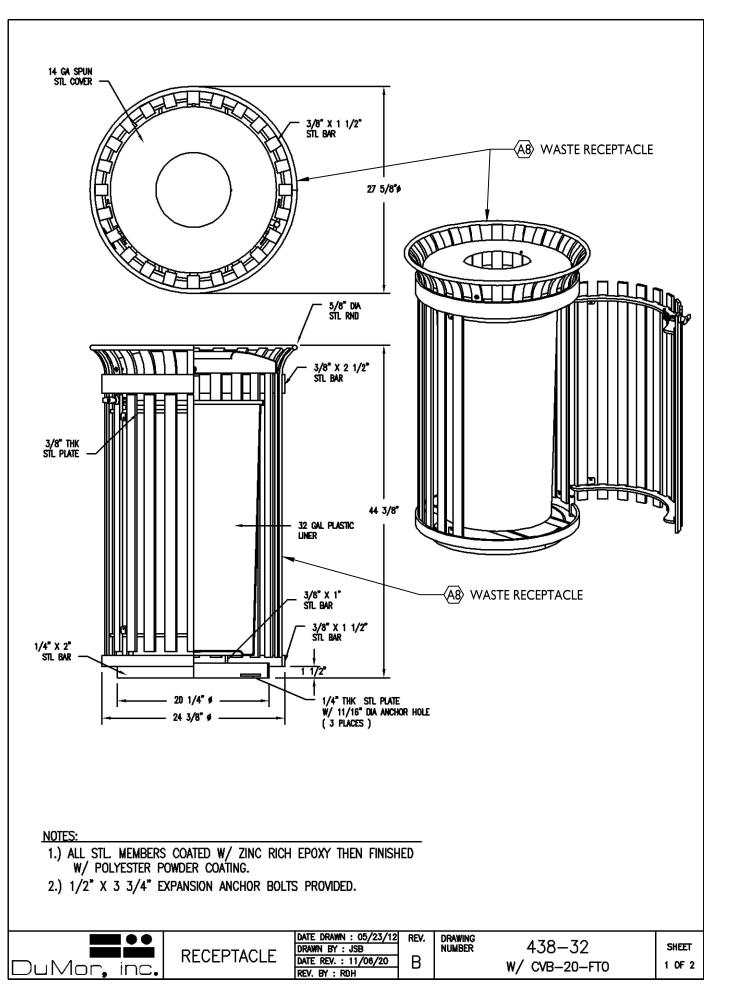






A6 BIKE RACK DETAIL

OR APPROVED EQUAL



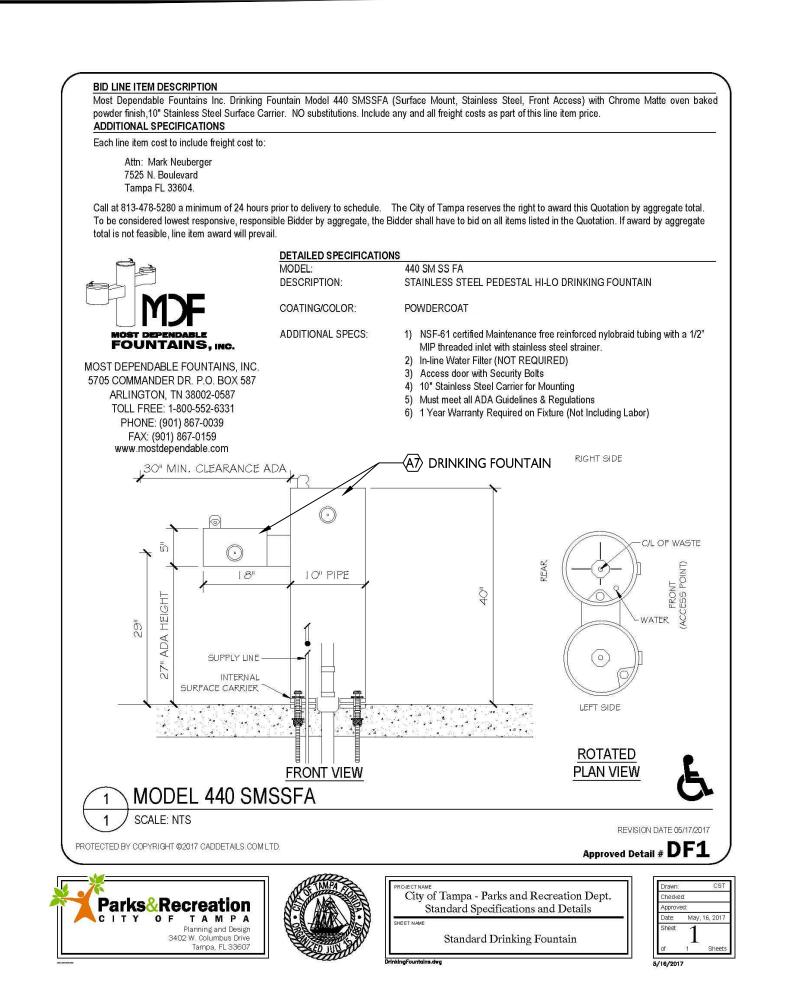
SHEET: LH-504

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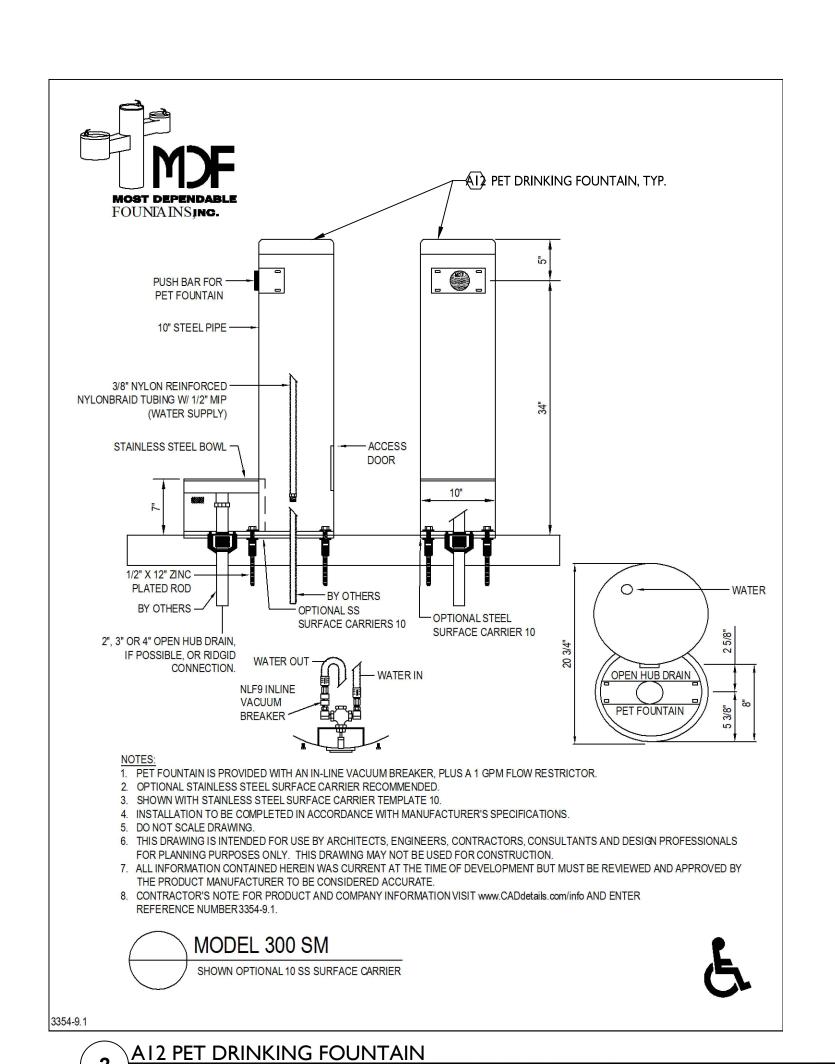
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PARK MPA, FL, 3

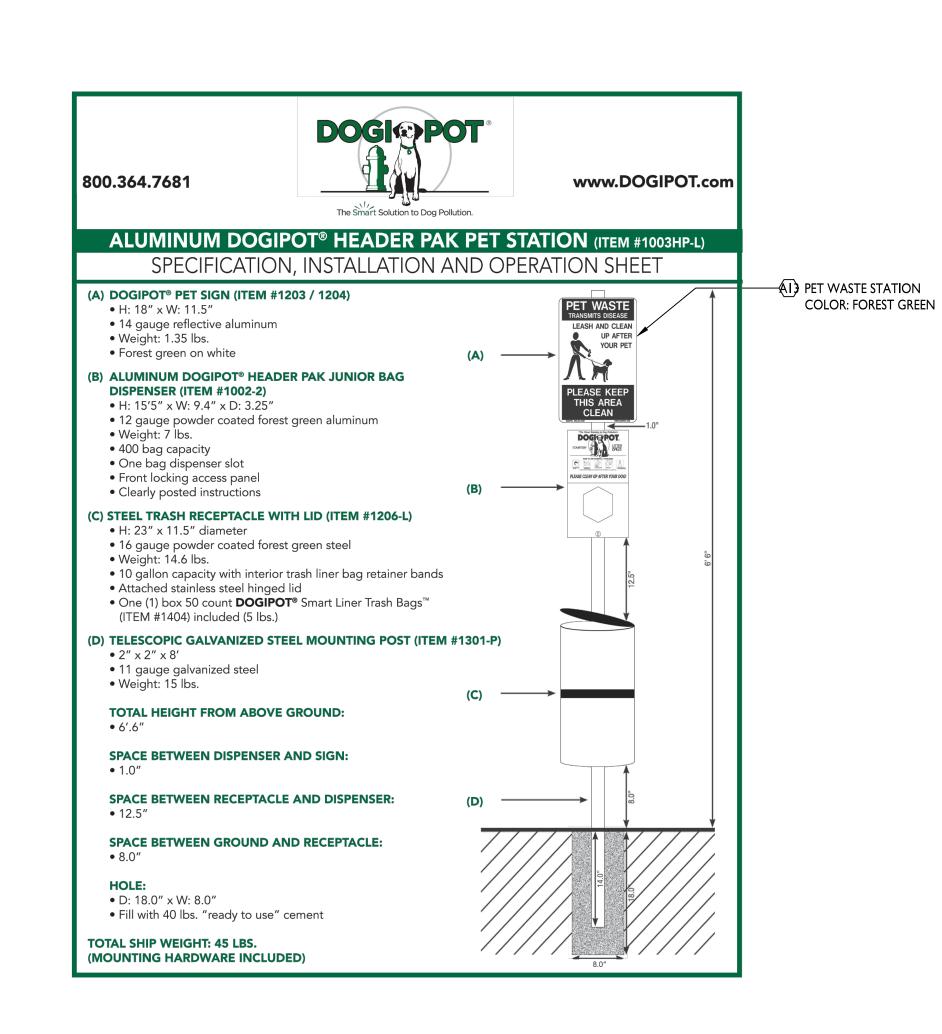
HERMAN MASSEY 1002 N FRANKLIN STREET, TAN



A7 DRINKING FOUNTAIN DETAILS

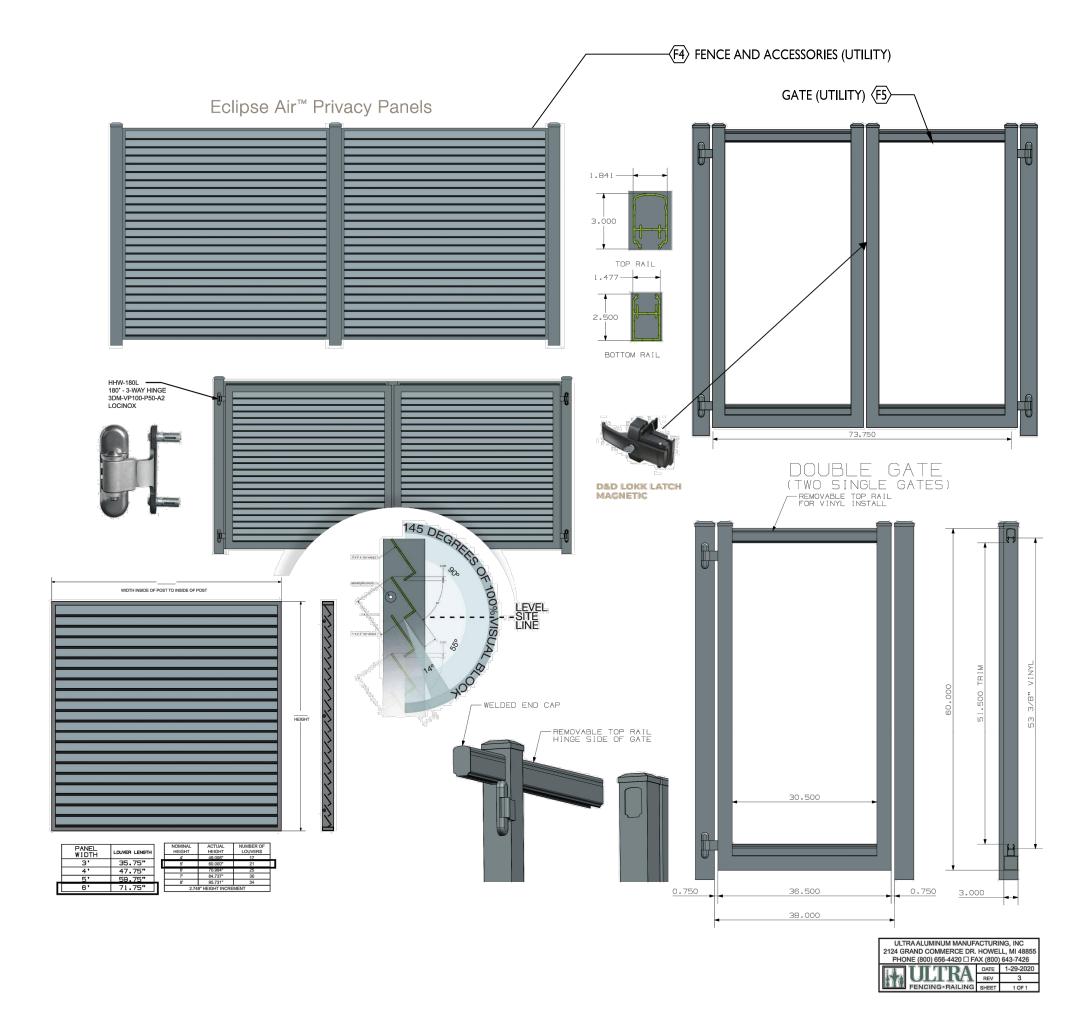


OR APPROVED EQUAL



\A13 PET WASTE STATION DETAIL

OR APPROVED EQUAL



\F4 & F5 FENCE AND ACCESSORIES, GATE (UTILITY) DETAIL OR APPROVED EQUAL

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THE OFFICIAL RECORD OF

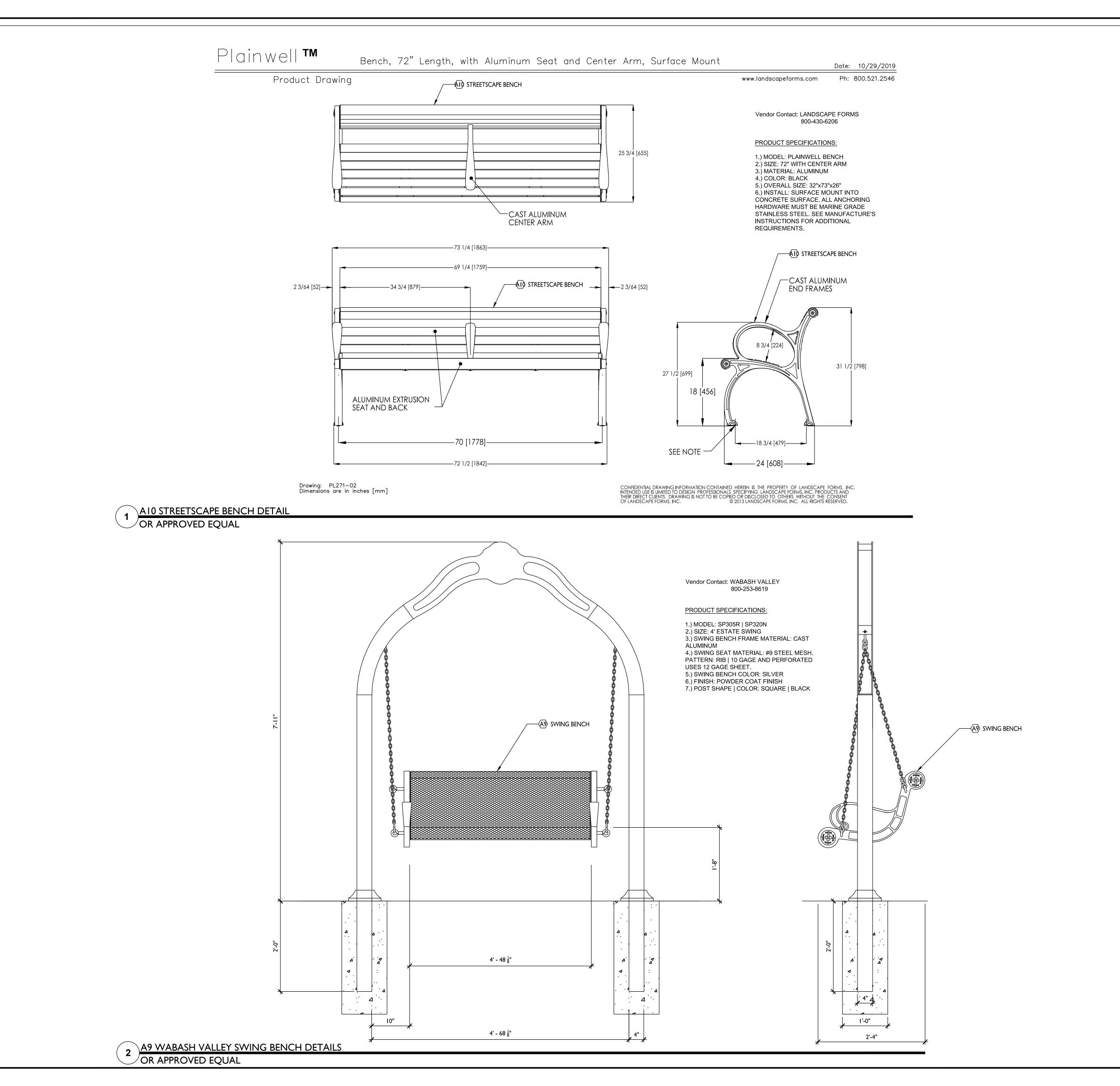
PARK

MPA, FL.

HERMAN MASSEY N FRANKLIN STREET, TAN

LH-505

SHEET:



NSTRUCTION SERVICES DIVISION

PLAN APPROVAT
23-0498883 10/85/8023

SET OF PLANS MUST HE KOPT ON

THE OB AT ALL TIMES DIVISION

THE OB AT ALL TIMES DIVISION

SUBJECT OF THE OB AT ALL TIMES DIVISION

THE OB AT ALL TIMES DIVISION

SUBJECT OF THE OB AT ALL TIMES DIVISION

SERVICES D

NO. DATE DESCRIPTION

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SIGNED AND SEALED UN RULE 61G10-11,011, F.A.

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LICENSE

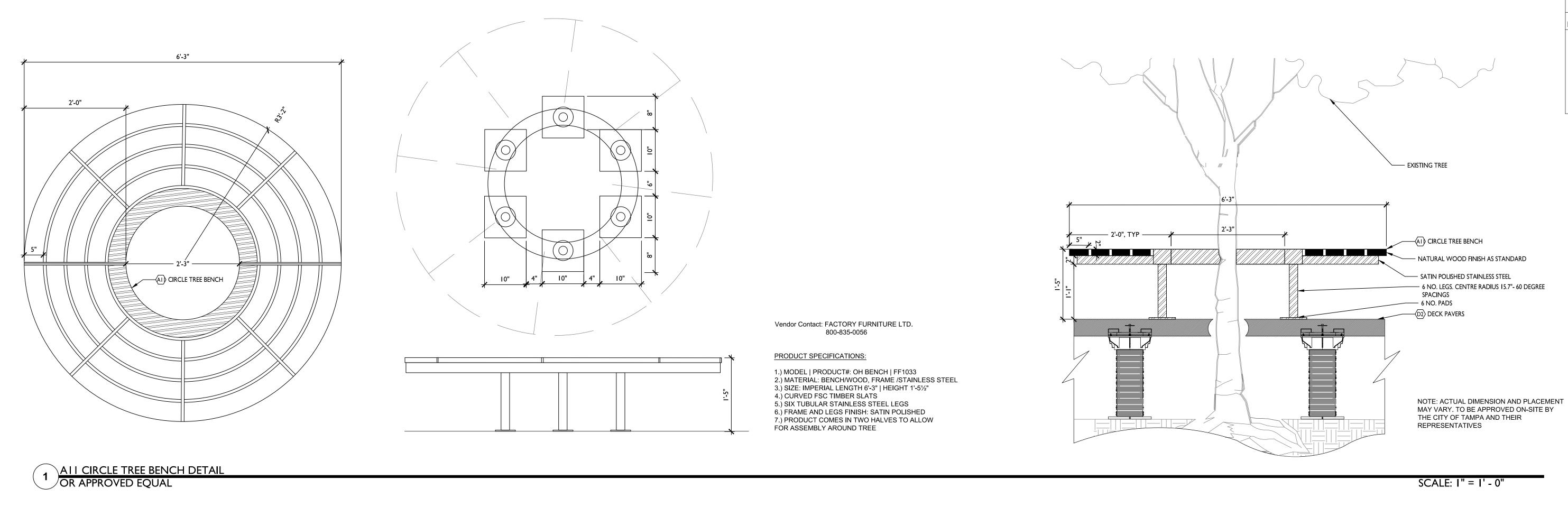
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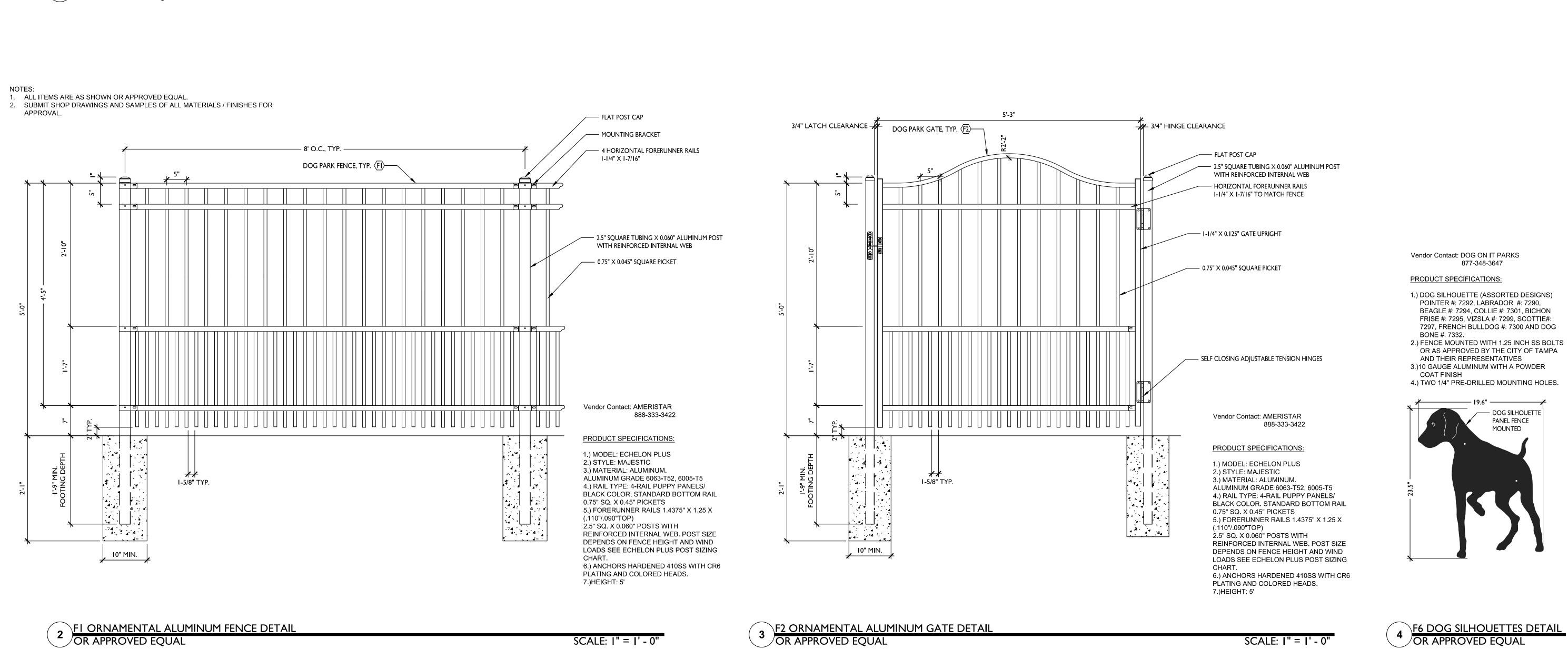
STATE OF
FLORIDA

STATE OF
FLORIDA

HERMAN MASSEY PARK
1002 N FRANKLIN STREET, TAMPA, FL, 33602

SHEET: **LH-506**





F6 DOG SILHOUETTES DETAIL

SHEET: LH-507

THE OFFICIAL RECORD OF

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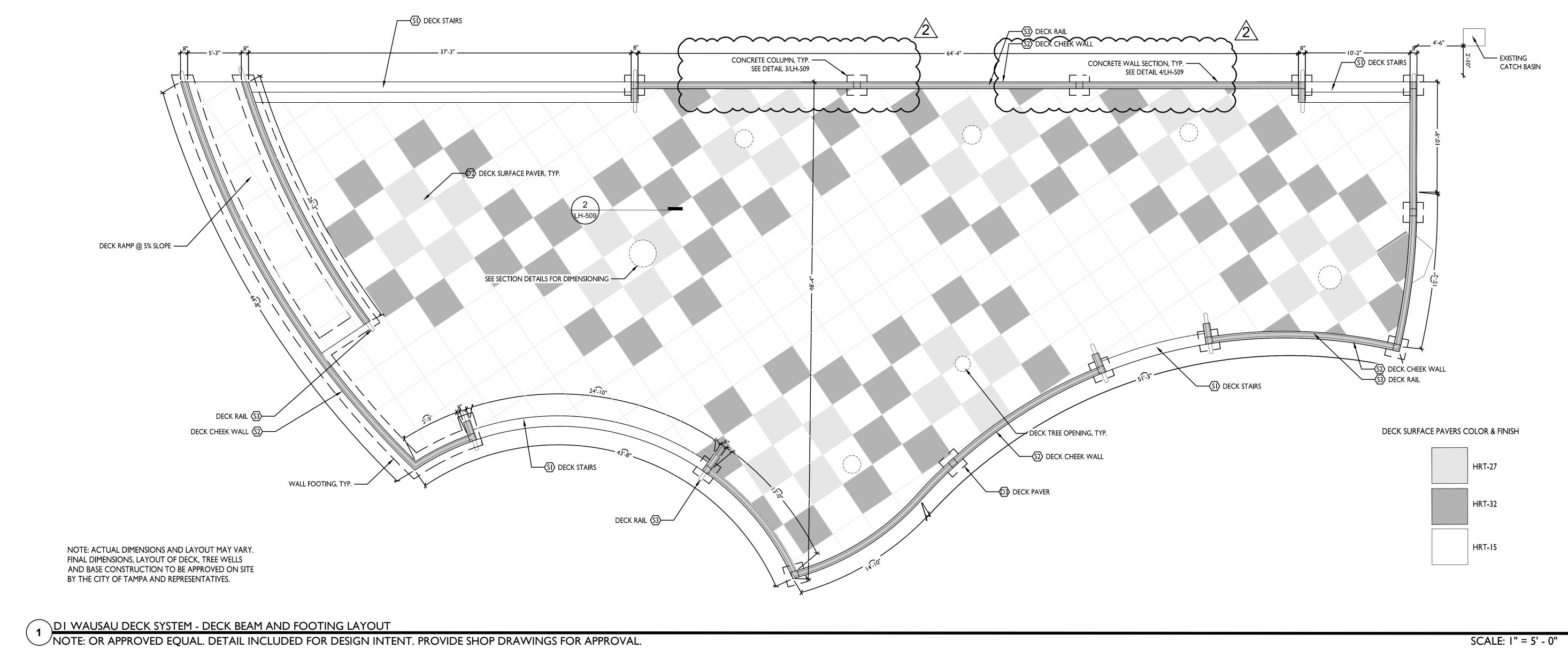
LICENSE

THIS SHEET IS THE

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I MASSEY STREET, TAN

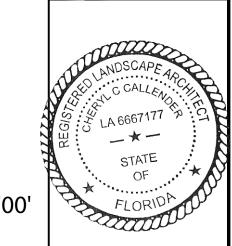
HERMAN P N FRANKLIN S



	DECK MATERIALS SCHEDULE									
PAVING/ SURFACING										
KEYNOTE CODE	MATERIAL	QUANTITY	MANUFACTURER OR DISTRIBUTOR	SERIES, MODEL AND SIZE	COLOR, FINISH AND PATTERN	RECOMMENDATIONS AND NOTES				
D1	DECK SYSTEM		WAUSAU TILE WWW.WAUSAUTILE.COM 813-334-0016 (OR APPROVED EQUAL)	TERRA-STAND PEDESTAL, HIDDEN LOK-DOWN SYSTEM WITH OPEN JOINTS	N/A	INSTALL PER MANUFACTURER'S SPECIFICATIONS. REFER TO DETAILS 1-2/LH-508. /PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL.				
D2	DECK SURFACE PAVERS	3500 SF	WAUSAU TILE WWW.WAUSAUTILE.COM 813-334-0016 (OR APPROVED EQUAL)	ESTATE; 42"x42"x4"	HRT-15, HRT-27, HRT-32	INSTALL PER MANUFACTURER'S SPECIFICATIONS. REFER TO DETAILS LH-509. PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL.				
D3	DECK PAVER		N/A	ESTATE; 12"x 12"x 3"	N/A	REFER TO DETAILS LH-509. PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL.				
S1	DECK STAIRS	200 LF	N/A	CONCRETE	FINISH: ROCK SALT COLOR: STUCCO TO MATCH DECK PAVER HRT-15	REFER TO DETAIL LH-509. PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL.				
S2	DECK CHEEK WALLS	240 LF	N/A	CONCRETE	FINISH: ROCK SALT COLOR: STUCCO TO MATCH DECK PAVER HRT-15	REFER TO DETAIL 2/LH-509. PROVIDE SHOP DRAWINGS TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL.				
S3	DECK RAIL	300 LF	AGS STAINLESS INC WWW.AGSSTAINLESS.COM 888-842-9492 (OR APPROVED EQUAL)	RAINIER CABLE RAILING SYSTEM 36" STANDARD TO INCLUDE HANDRAIL BRACKETS ON ENDS	COLOR: BRUSHED STAINLESS STEEL	INSTALL PER MANUFACTURER'S SPECIFICATION. REFER TO DETAIL 4/LH-509.				

SCALE: I" = 5' - 0"

Cheryl C Cheryl C Callender Callender 2023.09.29 Callender 12:42:17 -04'00'

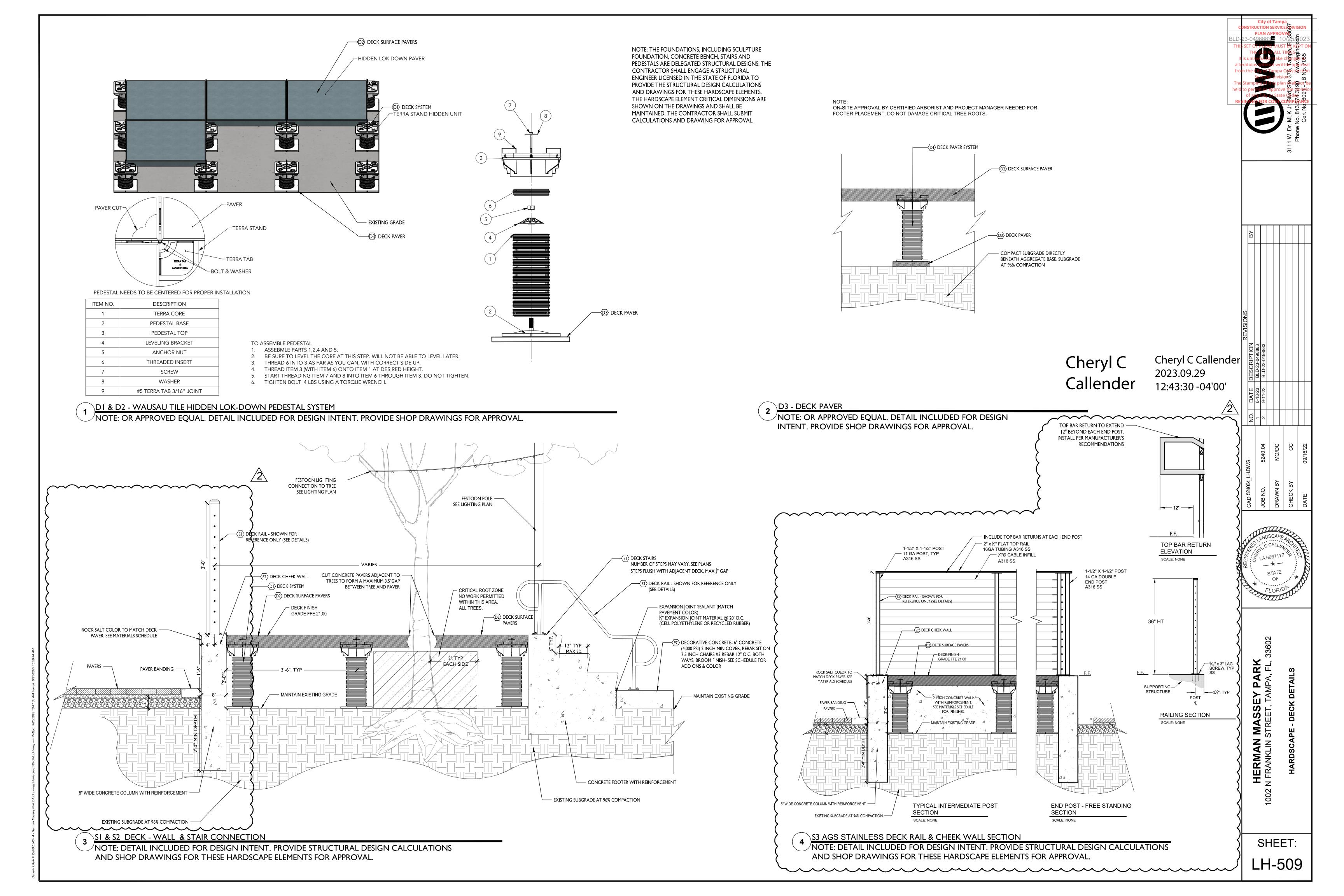


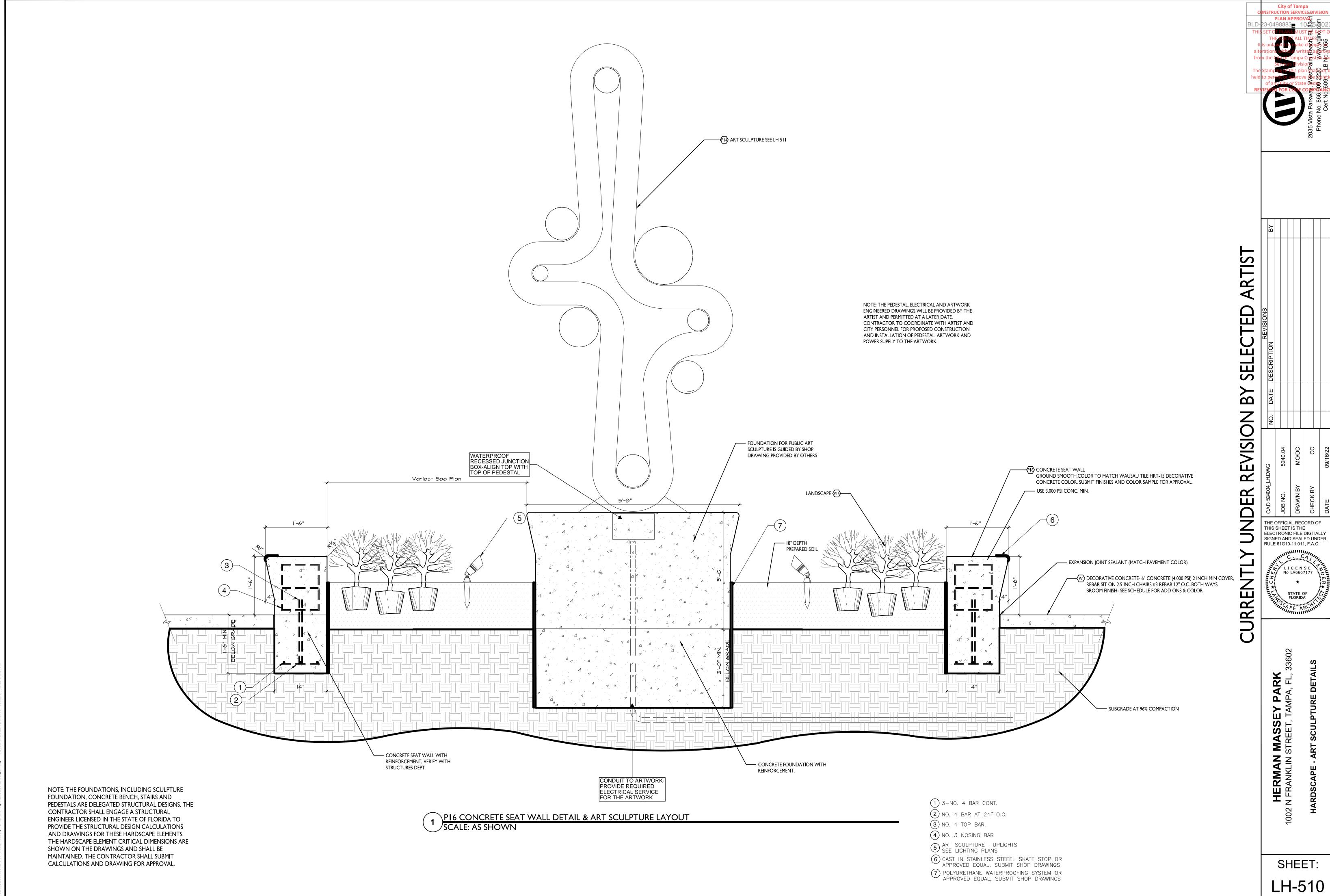
DESCRIPTION BLD-23-0498883 BLD-23-0498883

HERMAN MASSEY PARK 1002 N FRANKLIN STREET, TAMPA, FL, 33602

SHEET:

LH-508

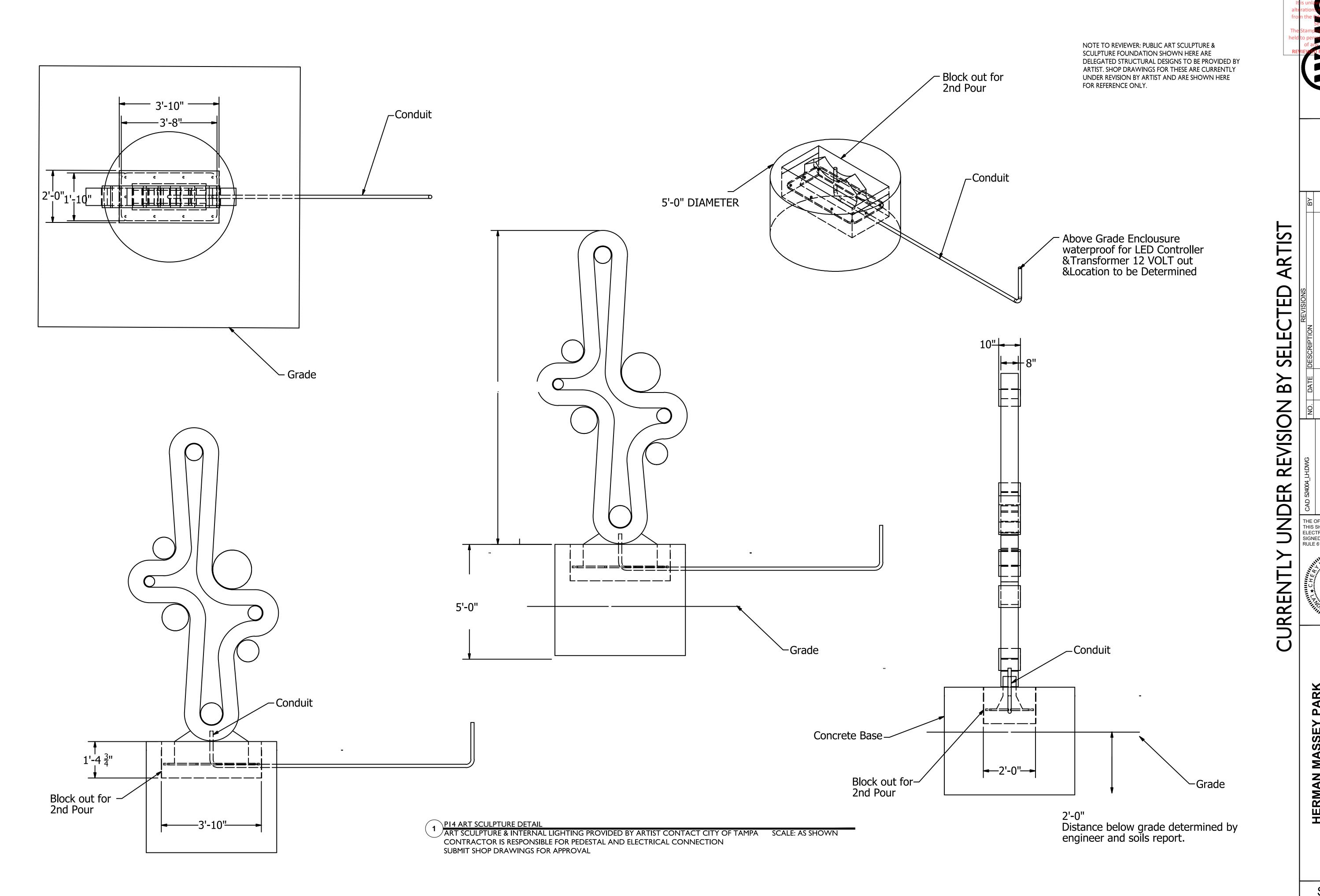




LICENSE

SHEET:

LH-510



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HERMAN MASSEY 1002 N FRANKLIN STREET, TAN

SHEET:

LH-511

GENERAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE FLORIDA BUILDING CODE (FBC) 7TH EDITION (2020), THE ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND CHAPTER 5 OF THE CITY OF TAMPA MUNICIPAL CODE.
- 2. REGULATIONS ALL CONSTRUCTION SHALL BE DONE IN A WORKMAN LIKE MANNER AND SHALL CONFORM TO ALL COUNTY, STATE AND FEDERAL REGULATIONS AND OR CODES INCLUDING BUT NOT LIMITED TO THE CURRENT CITY OF TAMPA AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) LATEST REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES TO BEGIN WORK AND PAY ALL REQUIRED FEES ASSOCIATED WITH SAME.
- 3. STANDARD DETAILS AND SPECIFICATIONS STATE, COUNTY AND CITY CONSTRUCTION DETAILS AND SPECIFICATIONS SHALL BE APPLIED TO THE APPROPRIATE AREAS OF THE PLANS, GENERALLY DIFFERENTIATED BY PROPERTY OWNERSHIP LINES OR INTENT OF THE DESIGN. ANY CONFLICTS BETWEEN GOVERNING STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 4. DATUM UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). HORIZONTAL DATA SHOWN HEREON REFERS TO FLORIDA STATE PLANES WEST ZONE US FEET (NAD 83). ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION BEGINS OR RESUMES.
- 5. CONTROL BENCHMARK: STATION IS A CITY OF TAMPA SURVEY BENCHMARK, HV-02 0124A, LOCATED IN POINT OF INTERSECTION TOP OF CONCRETE RETAINING WALL ON NORTHEAST CORNER OF FLORIDA AVENUE AND TYLER STREET.

EL.: 21.81' (NAVD88)

- 6. SHOP DRAWINGS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. STRUCTURE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- MAINTENANCE OF TRAFFIC (M.O.T.) UNLESS OTHERWISE PERMITTED, THE CONTRACTOR SHALL MAINTAIN EXISTING PEDESTRIAN AND VEHICULAR TRAFFIC AND ACCESS AT ALL TIMES DURING CONSTRUCTION AND SHALL PROVIDE THE NECESSARY TEMPORARY PAVEMENT, BARRICADES, LIGHTING, SIGNS, FLAGMEN, ETC. FOR THE SAFETY OF THE PUBLIC. THE CONTRACTOR SHALL SUBMIT M.O.T. AND A.D.A. ACCESS PLANS TO THE ENGINEER FOR REVIEW AND CITY, COUNTY AND STATE APPROVAL OF WORK TO BE DONE WITHIN THEIR RIGHTS OF WAY. M.O.T. SHALL BE IN ACCORDANCE WITH A.D.A., M.U.T.C.D. AND F.D.O.T. INDEX SERIES 600.
- 8. RECORD DRAWINGS THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. RECORD DRAWINGS MUST BE SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR REGISTERED IN THE STATE OF FLORIDA AND BE REFERENCED TO THE DATUM SHOWN IN THE CONSTRUCTION PLANS. ANY UNMARKED UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE INCORPORATED INTO THE RECORD DRAWINGS. ALL UTILITIES MUST BE SHOWN IN THEIR AS-BUILT LOCATION.
- 9. RESPONSIBILITY THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND MATERIAL OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION IN OR AROUND THAT UTILITY. CALL "SUNSHINE STATE ONE CALL" AT 1-800-432-4770 PRIOR TO ANY EXCAVATION.
- 10. RESTORATION THE CONTRACTOR SHALL IMMEDIATELY REPAIR AND RESTORE EXISTING SITE FEATURES INCLUDING PAVEMENT, DRIVEWAYS, PIPES, FENCES, TRAFFIC CONTROL DEVICES, MAILBOXES AND PROPERTY CORNERS DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES. THE REPAIR AND RESTORATION SHALL CONFORM TO APPLICABLE STANDARDS AS GOVERNED.
- 11. OPEN TRENCHES ALL OPEN TRENCHES AND HOLES SHALL BE PROPERLY MARKED AND BARRICADED TO INSURE THE SAFETY OF VEHICULAR AND PEDESTRIAN TRAFFIC. NO OPEN TRENCHES OR HOLES SHALL BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT EXPRESSED PERMISSION FROM THE OWNER AND REGULATING AGENCIES. ALL TRENCHES SHALL COMPLY WITH OSHA TRENCH SAFETY ACT PROVISIONS.
- 12. CONFLICTS ANY CONFLICTING INFORMATION BETWEEN REGULATING AGENCIES AND THE CONSTRUCTION DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. AFFECTED CONSTRUCTION SHALL NOT COMMENCE OR RESUME UNTIL PERMISSION IS GRANTED BY THE ENGINEER OR OWNER.
- 13. BOUNDARY AND TOPOGRAPHIC SURVEY BY EBI SURVEYING, DATED 02/25/19, PROJECT NUMBER WGIN0001.
- 14. GEOTECHNICAL REPORT BY MESKEL & ASSOCIATES ENGINEERING, DATED 03/01/2019, PROJECT NUMBER 0072-0003.

CLEARING AND GRUBBING

- 1. CLEARING CLEARING SHALL BE LIMITED TO THE CONSTRUCTION AREA AND/OR AS DIRECTED BY THE ENGINEER AND APPROVED BY THE CITY.
- 2. GRUBBING ALL STUMPS, ROOTS, BURIED LOGS OR OTHER UNSUITABLE MATERIAL WITHIN THE LIMITS OF PAVEMENT CONSTRUCTION SHALL BE REMOVED TO A DEPTH OF 3 FEET BELOW FINISHED PAVEMENT ELEVATION AND REPLACED WITH CLEAN FILL UNLESS OTHERWISE NOTED.
- 3. DEBRIS REMOVAL ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED. ANY MATERIAL RETAINED ON-SITE FOR MORE THAN 30 DAYS SHALL BE STORED IN CONTAINERS APPROVED BY THE ENGINEER AND CITY.
- 4. PROTECTION THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING BUILDINGS, UTILITIES, STRUCTURES THAT ARE ABOVE OR BELOW GROUND.
- 5. LANDSCAPED AREAS ALL LANDSCAPE PLANTING AREAS SHALL BE FREE OF BASE ROCK AND CONSTRUCTION DEBRIS AND EXCAVATED TO A MINIMUM DEPTH OF 30" OR TO CLEAN, NATIVE SOIL. REFER TO THE LANDSCAPE PLANS FOR ADDITIONAL PLANTING INFORMATION AND DETAILS.
- 6. MUCK ANY MUCK ENCOUNTERED WITHIN 10' OF THE PAVEMENT AND BUILDING AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN FILL MATERIAL.
- 7. HARDPAN HARDPAN ENCOUNTERED IN THE DETENTION AREA SHALL BE REMOVED AND REPLACED WITH CLEAN, GRANULAR FILL MATERIAL.

WATER AND SEWER NOTES

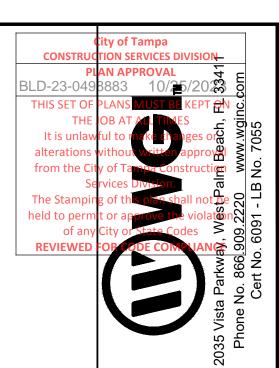
- RIM ELEVATIONS ARE BASED ON PROPOSED FINISH GRADES. VERTICAL ADJUSTMENTS OF RIMS AND VALVE BOXES MAY BE NECESSARY DUE TO FIELD CONDITIONS. ADJUSTMENTS ARE TO BE MADE BY THE CONTRACTOR WHEN THE BASE COURSE IS IN PLACE OR SITE GRADING IS COMPLETE. COST OF ADJUSTING IS TO BE INCLUDED IN BASE BID.
- 2. WATER AND SEWER MAINS AND SERVICES TO CLEAR DRAINAGE MANHOLES AND INLETS BY A MINIMUM OF 5'.
- PVC WATER MAINS SHALL BE LAID WITH NO DEFLECTIONS AT THE JOINTS AND PIPES SHALL NOT BE DEFLECTED.
- 4. WATER PIPE AND FITTINGS SHALL BE COLOR CODED IN ACCORDANCE WITH SUBPARAGRAPH 62-555.320 OF THE F.A.C.
- 5. DETECTABLE MAGNETIC TAPE SHALL BE INSTALLED 12" ABOVE CROWN OF PIPE. TAPE OVER WATER MAINS SHALL BE 6" BLUE. TAPE OVER FORCE MAINS SHALL BE 6" GREEN OR BROWN. THE TAPE SHALL BE MAGNETIC AND MANUFACTURED BY THOR ENTERPRISES OR APPROVED EQUAL.
- 6. MEGALUG RESTRAINTS, SECURED WITH THRUST BLOCKS AND/OR TIE-RODS (SEE DETAIL SHEETS), SHALL BE USED ON ALL UNDERGROUND FITTINGS. ABOVE GROUND FITTINGS SHALL BE FLANGED. RESTRAINED JOINTS AND FITTINGS SHALL BE VISUALLY INSPECTED AND ACCEPTED BY THE ENGINEER PRIOR TO BACKFILLING.
- 7. PIPE JOINT DEFLECTIONS SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDATION.
- 8. ALL SERVICES SHALL HAVE AN PVB BFP DEVICE INSTALLED ON THE DISCHARGE SIDE OF THE METER.
- 9. VALVE BOX COVERS SHALL NOT FALL WITHIN CURBS.
- 10. UNLESS CALLED FOR IN THE PLANS, ALL WATER MAINS AND FORCE MAINS SHALL HAVE 36" MIN. COVER.
- 11. HORIZONTAL PIPE SEPARATION DIMENSIONS ARE FROM WALL TO WALL OF PIPES AND STRUCTURES UNLESS NOTED OR EXPLICITLY SHOWN.
- 12. PRESSURE FITTINGS TO BE RESTRAINED PER CITY OF TAMPA SPECIFICATIONS.
- 13. ALL UTILITY CONSTRUCTION SHALL BE PER THE CITY OF TAMPA STANDARDS AND SPECIFICATIONS. WATER LINES SHALL FOLLOW THE TAMPA WATER DEPARTMENT TECHNICAL MANUAL.

PAVING AND DRAINAGE

- 1. DEVELOPMENT SHALL COMPLY WITH CITY OF TAMPA STORMWATER TECHNICAL STANDARDS, CHAPTER 21 OF THE CITY OF TAMPA CODE.
- CONCRETE CONCRETE SHALL DEVELOP A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED ON THE PLANS AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CURRENT FDOT SPECIFICATIONS.
- 3. PIPE BACKFILL PIPE BACKFILL SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CURRENT FDOT SPECIFICATIONS. PIPE BACKFILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY AS DEFINED BY AASHTO T-180.

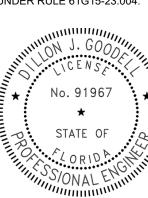
FIELD OBSERVATIONS AND TESTING

- NOTIFICATION THE CONTRACTOR SHALL NOTIFY THE ENGINEER, GOVERNMENT AND OTHER PERMITTING AGENCIES 48 HOURS PRIOR TO SCHEDULING FIELD OBSERVATIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO TEST THE COMPLETED WORK. CALL "SUNSHINE ONE CALL" AT 1-800-432-4770 PRIOR TO ANY EXCAVATION.
- 2. THE UNDERGROUND CONTRACTOR SHALL SUBMIT ALL RECORD DATA, SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CURB AND PAVEMENT CONSTRUCTION. ANY NECESSARY ADJUSTMENTS AT THIS TIME SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 3. DRAINAGE PIPES AND STRUCTURES SHALL BE INSPECTED BY THE ENGINEER AND CITY PRIOR TO BACKFILLING. ALL DRAINAGE SYSTEMS SHALL BE PUMPED DOWN TO BELOW THE INVERT AND LAMPED AS A REQUIREMENT OF THE FINAL DRAINAGE INSPECTION.
- 4. ALL TESTS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND ARE TO BE PAID FOR BY THE CONTRACTOR.
- 5. THE BASE ROCK CHEMICAL AND SIEVE ANALYSIS AND THE ASPHALT MIX AND DESIGN CRITERIA SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- 6. PROCTOR AND DENSITY TESTS FOR SUBGRADE AND BASE MATERIAL SHALL BE TAKEN AS DIRECTED BY THE ENGINEER. PAVING DENSITY TESTS SHALL BE TAKEN A MINIMUM OF ONE PER 500 S Y
- 7. DENSITY TEST FOR PIPE TRENCHES SHALL BE TAKEN AT THE PIPE SPRING-LINE AND AT MAXIMUM ONE FOOT (1') LIFTS AS MEASURED FROM THE TOP OF PIPE. THE TESTS SHALL BE TAKEN AT A MAXIMUM SPACING OF EVERY 400 FEET MEASURED FROM THE STRUCTURE OR AT LEAST ONE TEST AT THE CENTER OF THE PIPE SEGMENT BETWEEN TWO STRUCTURES IF LESS THEN 400 FEET. TESTS SHALL BE TAKEN ON ALL SIDES WITHIN FIVE (5') OF EACH STRUCTURE. THE TEST LOCATION AT THE STRUCTURE SHALL BE ON ALTERNATING SIDES OF THE STRUCTURE WITH EACH LIFT TESTED. THE LOCATION AND DEPTH OF ALL TESTS SHALL BE CLEARLY INDICATED IN THE DESCRIPTION AREA ON THE TEST REPORT OR ILLUSTRATED IN
- 8. TESTING TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. TESTING REQUIREMENTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, BACKFILL DENSITY, PIPELINE INTEGRITY (HYDROSTATIC PRESSURE) AND ANY OTHERS REQUIRED BY THE ENGINEER, OR PERMITTING AGENCIES.



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	5240.04		RBL		D.I.G		12/10/22	12/13/22
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IAN MASSEY PARK

SHEET:







EX WATER LINE

EX BRICK PAVERS EX CONCRETE SURFACE

LIMITS OF DEMOLITION

SHRUB PRESERVATION

TREE PROTECTION ZONE

REMOVE TREE/PALM

RELOCATE PALM

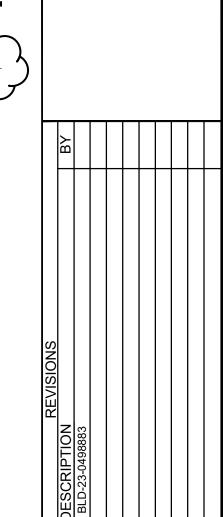
LEGEND (C) CALCULATED MEASUREMENT
CO CLEAN OUT
CONC CONCRETE
CSW CONCRETE SIDEWALK
(D) DEED MEASUREMENT - CALL LB LICENSED BUSINESS NUMBER LICENSED SURVEYOR MW MONITORING WELL
NAVD NORTH AMERICAN VERTICAL DATUM FIELD MEASUREMENT NGVD NATIONAL GEODETIC VERTICAL DATUM EL. ELEVATION
EM ELECTRIC METER
FCM FOUND CONCRETE MONUMENT
FDOT FLORIDA DEPARTMENT OF ORB OFFICIAL RECORDS BOOK PLAT MEASUREMENT - CALL POWER POLE PRM PERMANENT REFERENCE MONUMENT PROFESSIONAL SURVEYOR & MAPPER FINISHED FLOOR R/W RIGHT-OF-WAY SCIR SET CAPPED IRON ROD SND SET NAIL AND DISK FIP FOUND IRON PIPE FCIR FOUND CAPPED IRON ROD
FIR FOUND IRON ROD SET NAIL AND DISIN
SEWER VALVE
TBM TEMPORARY BENCHMARK
WM WATER METER
WV WATER VALVE FND FOUND NAIL AND DISK FPP FOUND PINCHED PIPE INV. INVERT TREE LOCATION (SIZE AND TYPE UTILITY FLAG ELECTRIC SANITARY SEWER STRUCTURE UTILITY FLAG COMMUNICATIONS UTILITY FLAG RECLAIMED WATER UTILITY FLAG SANITARY/STORM SEWER STORM STRUCTURE UTILITY FLAG WATER ⊗[™] TELEPHONE PEDESTAL

- 1. UNLESS OTHERWISE STATED, ALL ITEMS AND MATERIALS WITHIN THE LIMITS OF DEMOLITION ARE TO BE REMOVED AND DEMOLISHED.
- 2. REFER TO LD-100 FOR TREE DISPOSITION PLAN.

FIRE HYDRANT

BOLLARD

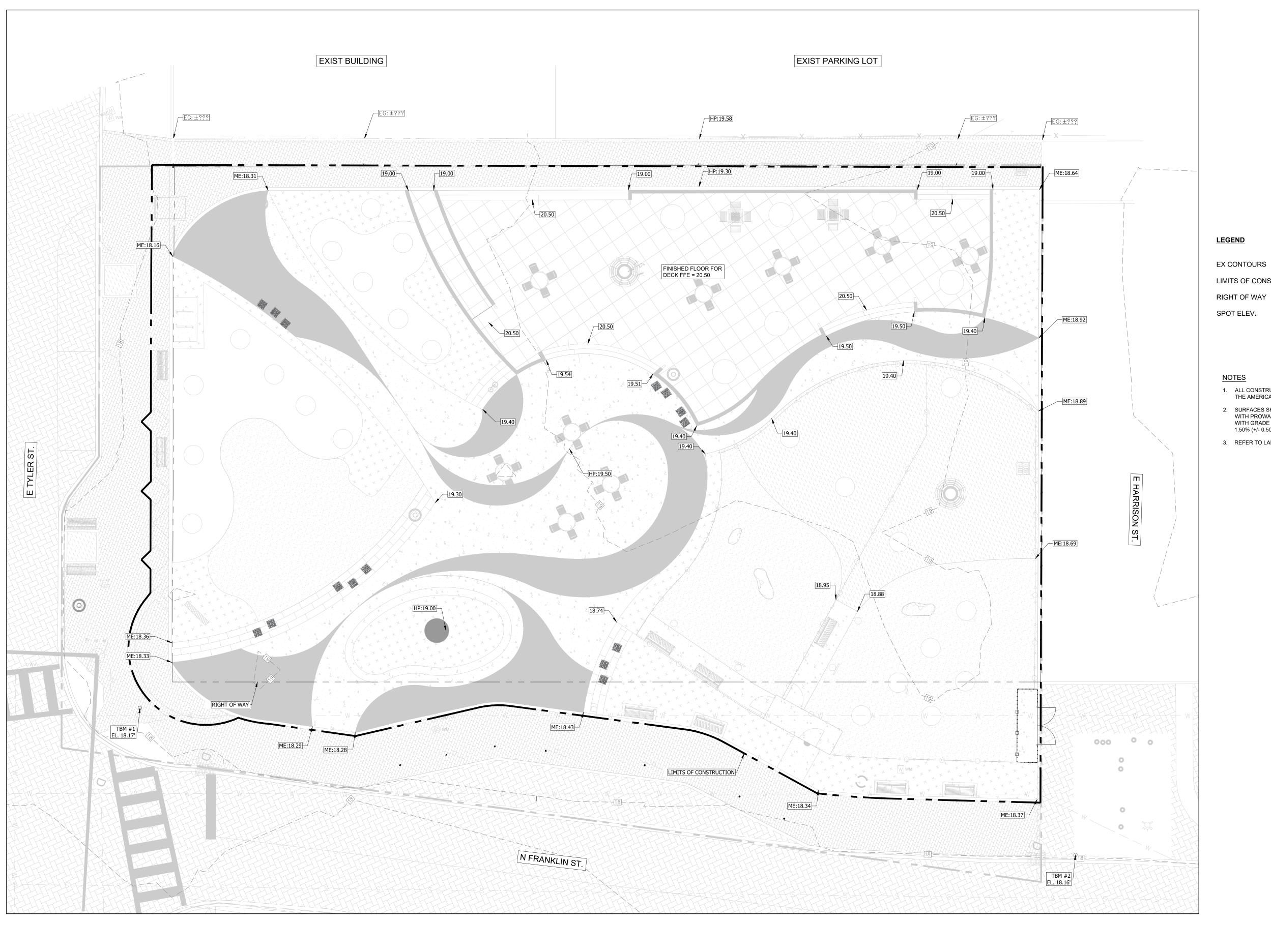
- 3. DEMOLITION OF EXISTING STRUCTURES, FOOTINGS, AS WELL AS CLEARING AND GRUBBING ACTIVITIES, WILL BE NECESSARY WITHIN TREE PROTECTION ZONES. MAINTAIN MINIMAL IMPACTS TO TREES AND TREE ROOTS WHILE PERFORMING NECESSARY WORK ACTIVITIES. NO STAGING OF EQUIPMENT TO OCCUR WITHIN TREE PROTECTION ZONES. ON-SITE ISA CERTIFIED ARBORIST OVERSITE REQUIRED DURING ANY WORK NEAR TREES. SEE ALSO TD PLAN LD100.
- 4. ROOT PRUNING SHALL BE DONE WHENEVER THERE WILL BE GRADING, CUTTING, OR COMPACTION DISTURBANCE UNDERNEATH THE DRIPLINE OF A TREE. ROOT PRUNING SHALL BE DONE PRIOR TO DISTURBANCE OF THE SITE AND DURING SITE
- 5. ROOT PRUNING SHALL BE DONE BY A CERTIFIED, QUALIFIED ARBORIST USING A DOSKO ROOT PRUNER OR THE EQUIVALENT PIECE OF MACHINERY. CONTRACTOR TO OBTAIN APPROVAL FROM CITY OF TAMPA PARKS RECREATION DEPARTMENT PROJECT MANAGER FOR EQUIVALENT PIECE OF MACHINERY PRIOR TO CONDUCTING ROOT PRUNING.
- DO NOT CUT STRUCTURAL ROOTS WITHIN 14' OF TREE TRUNK. HAND REMOVE EXISTING MATERIALS WITHIN 10' OF NON-GRAND TREES AND 20' OF GRAND TREES.WORK PERFORMED BY ISA CERTIFIED ARBORIST ONLY. SUBMIT
- 7. ROOTS SHALL BE CUT EVEN AND SMOOTH WITH SOIL AND ROOTBALL INTACT TO A DEPTH NOT TO EXCEED APPROXIMATELY NINE INCHES.
- 8. CONTRACTOR SHALL EXERCISE DUE CARE TO PROTECT ALL EXISTING IMPROVEMENTS NOT IDENTIFIED FOR DEMOLITION. ANY DAMAGE TO ITEMS OUTSIDE THE CONSTRUCTION LIMITS SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE BY EQUAL OR BETTER ITEM.
- CONTRACTOR SHALL PREVENT ACCUMULATION OF WATER OR DAMAGE TO ANY FOUNDATION ON THE ADJOINING PROPERTY.
- 10. ONSITE GRANITE WILL BE REUSED. REFER TO HARDSCAPE PLANS. CONTRACTOR SHALL EXERCISE DUE CARE WHEN HANDLING TO KEEP INTACT THEN SECURELY STACK ALL GRANITE ON PALLETS AND SECURELY STORE ON-SITE FOR INSTALLATION OR DELIVER MATERIAL TO THE CITY OF TAMPA FACILITY.
- 11. BRICK PAVERS, IRRIGATION CONTROLLER, ROCKS, PLAQUES, AND DOG WASTE STATION WILL BE SALVAGED EITHER BY THE CONTRACTOR OR CITY DEPARTMENTS FOR RE-INSTALLATION IN THE PARK.
- 12. THE FOLLOWING ITEMS WILL BE SALVAGED EITHER BY THE CONTRACTOR OR CITY DEPARTMENTS: LIGHT FIXTURES AND POSTS, BOLLARD LIGHTS, TREE GRATES, PARK SIGN, FENCE PANELS, AND DRINKING FOUNTAIN.
- 13. CONTRACTOR TO REMOVE TREE GRATE, SIGNAGE, PLAQUES AND DRINKING FOUNTAIN, AND DELIVER TO PARKS MAINTENANCE YARD AT 7525 NORTH BLVD. LIGHT FIXTURES AND POST, BOLLARD LIGHTS AND FENCE PANELS TO BE DELIVERED TO A LOCATION APPROVED BY CITY OF TAMPA.
- 14. CONTRACTOR TO INSTALL SOIL TRACKING PREVENTION DEVICES (STPDS) AT COMMON AREAS WHERE CONSTRUCTION VEHICLES WILL BE ENTERING AND EXITING THE CONSTRUCTION SITE IN ACCORDANCE WITH THE FDOT SPECIFICATION SECTION 106.

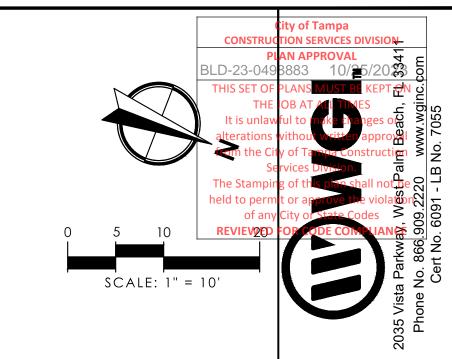


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No. 91967

SHEET:





LIMITS OF CONSTRUCTION

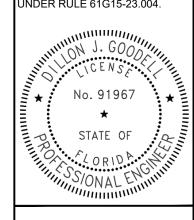
SPOT ELEV.

ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED IN FULL COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

18.62

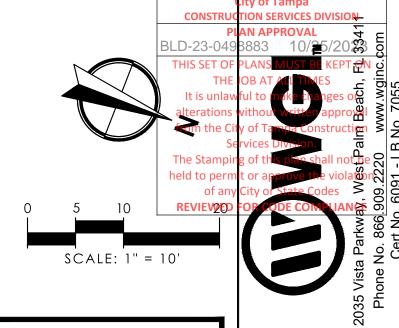
- SURFACES SHALL BE FIRM, STABLE, AND SLIP RESISTANT AND OTHERWISE COMPLY WITH PROWAG SECTION R302.7 AND SHALL HAVE A RUNNING SLOPE CONSISTENT WITH GRADE OF THE ADJACENT PEDESTRIAN ACCESS ROUTE AND CROSS SLOPE OF 1.50% (+/- 0.50%)
- 3. REFER TO LANDSCAPE PLANS FOR HARDSCAPING AND SITE FEATURES AND DETAILS.

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SHEET:







PROP WATER LINE

EX WATER LINE

LIMITS OF CONSTRUCTION

RIGHT OF WAY

PROP BACKFLOW PREVENTER

BFP

QUICK COUPLER

- CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO DIGGING AND NOTIFY ENGINEER IN CASE OF CONFLICT.
- REFER TO LANDSCAPE PLANS FOR HARDSCAPING AND SITE FEATURES AND DETAILS.

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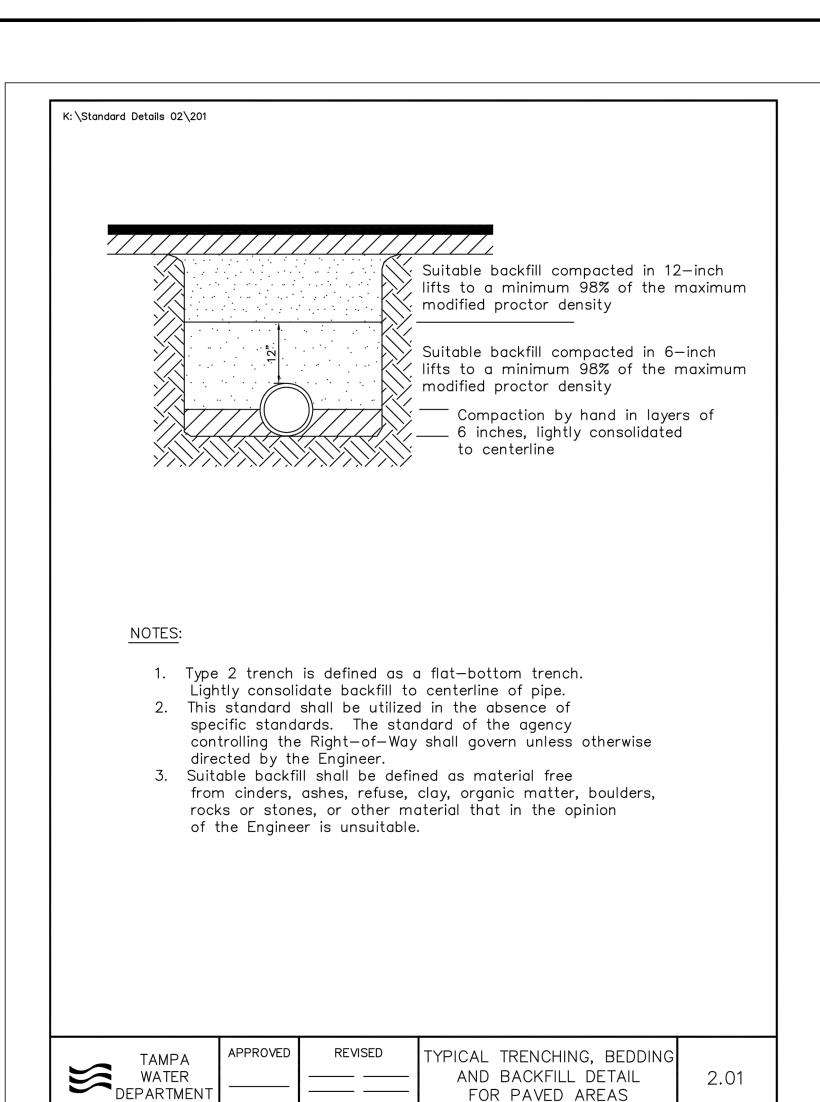
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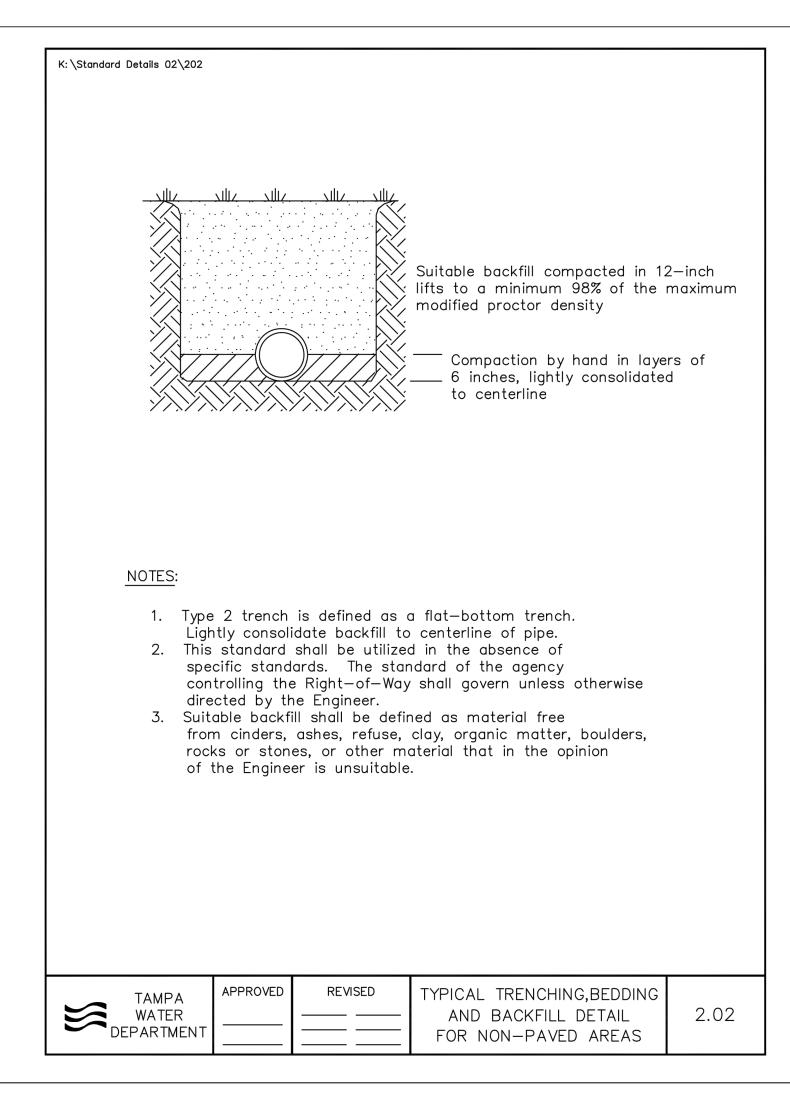
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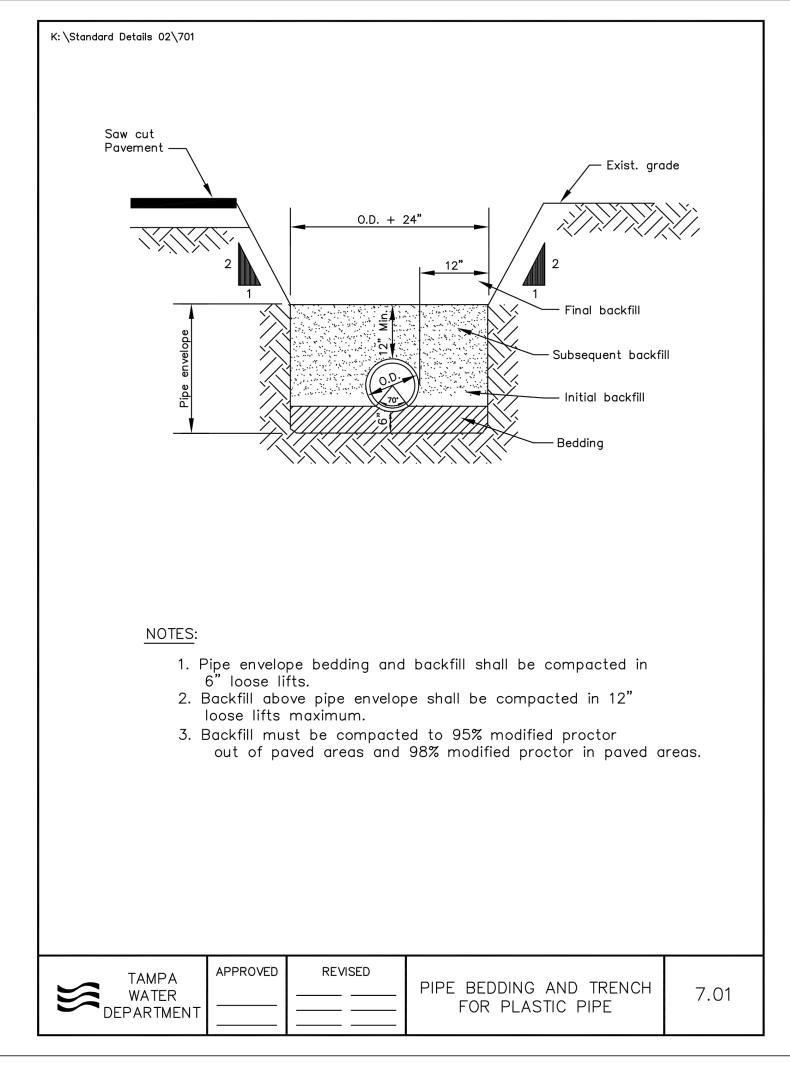


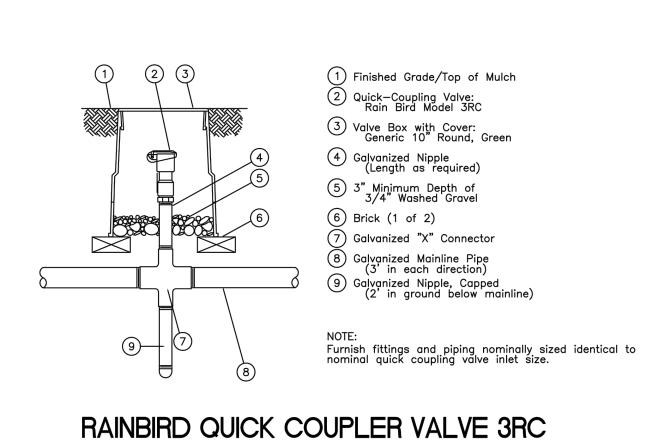
HERMAN MASSEY PARK

SHEET:

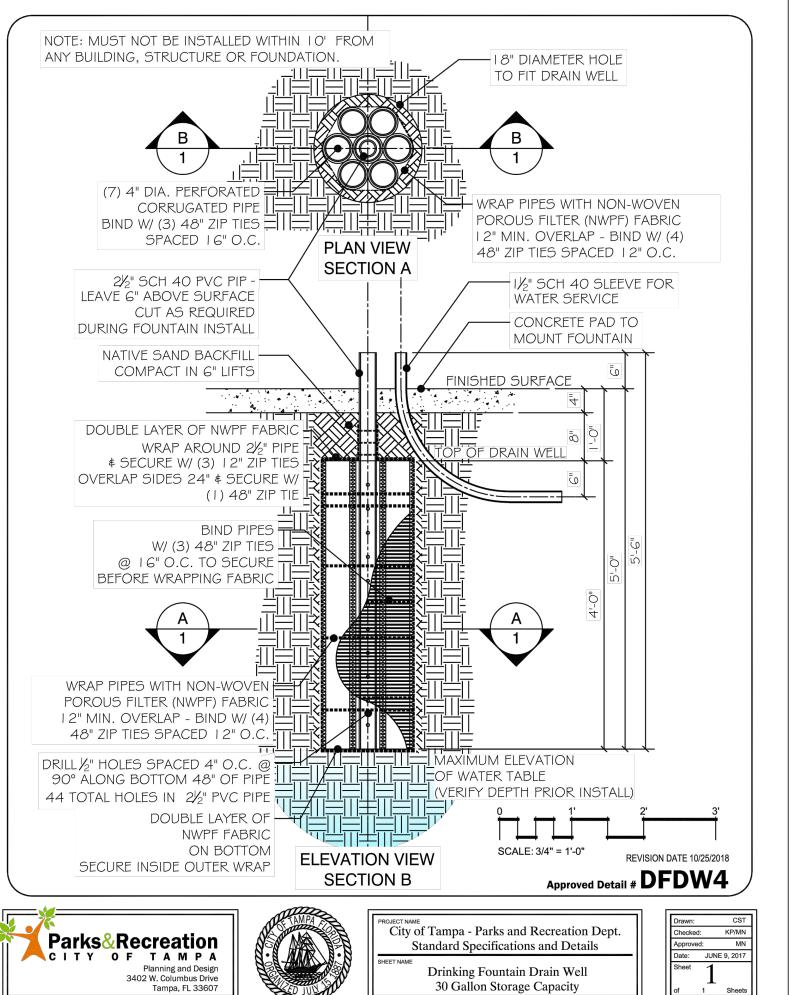




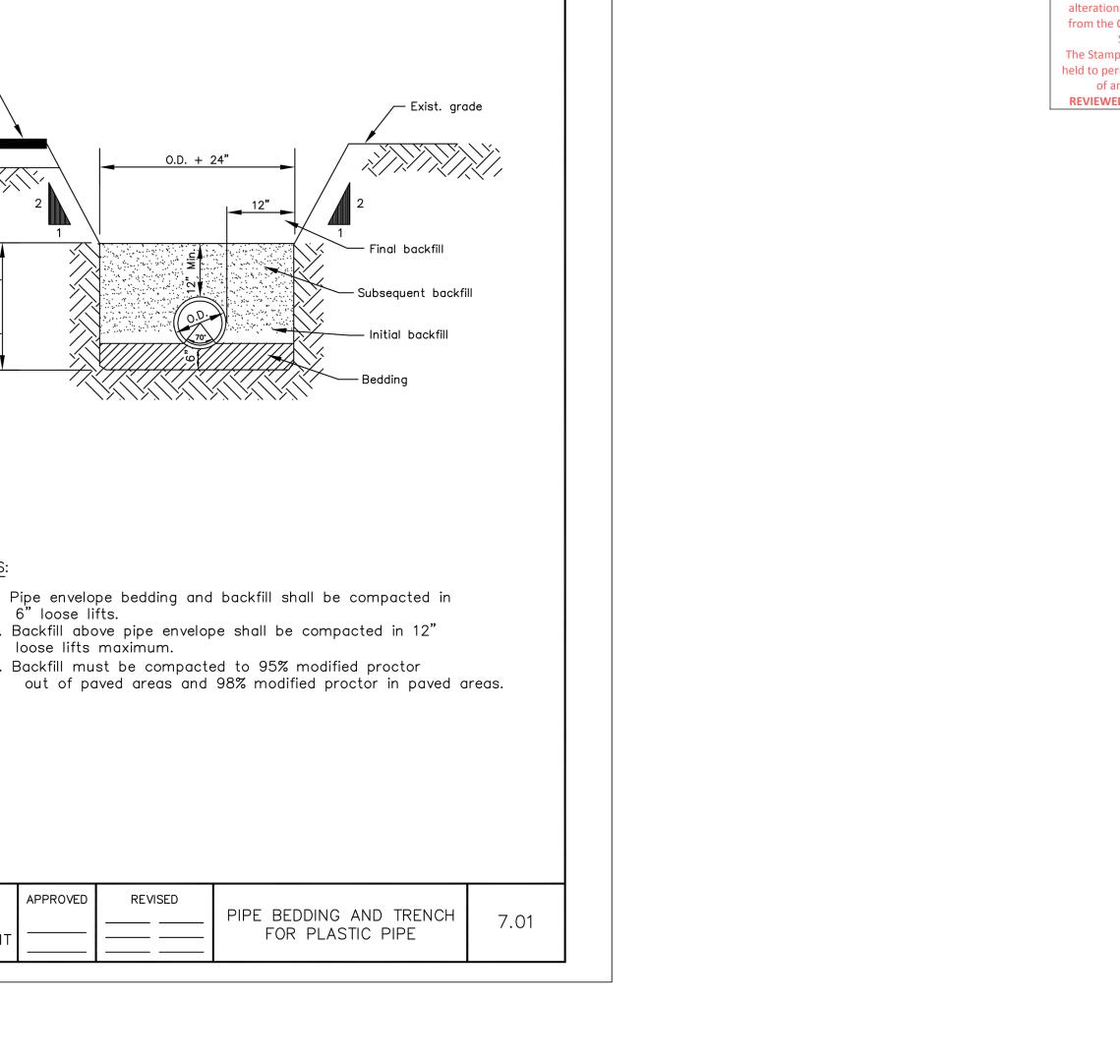




FOR PAVED AREAS



30 Gallon Storage Capacity



SE HERM

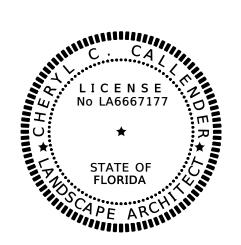
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No. 91967

BLD-23-04 THIS SET O

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SHEET:



SHEET NO.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Cheryl C Cheryl C Callender 2023.06.28
Callender 15:05:02 -04'00'

ON THE DATE ADJACENT TO THE SEAL
PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

WGI 3230 W. COMMERCIAL BLVD, SUITE 300, FORT LAUDERDALE, FL 33309 CHERYL C. CALLENDER, R.L.A. NO 6667177

THE ABOVE NAMED PROFESSIONAL LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.011, F.A.C.

SHEET DESCRIPTION

S-1 SIGNATURE SHEET

SP-100 SITE PLAN

LD-100 TREE DISPOSITION PLAN

LD-500 TREE DISPOSITION DETAILS

LH-100HARDSCAPE LAYOUT AND DIMENSION PLANLH-101HARDSCAPE - PAVING PLANLH-102HARDSCAPE - AMENITIES PLAN

LH-102 HARDSCAPE - AMENITIES

LH-500 - LH-511 HARDSCAPE DETAILS

LP-100 LANDSCAPE PLAN

LP-500 LANDSCAPE DETAILS

IP-100 IRRIGATION PLAN

IP-500IRRIGATION NOTES AND DETAILSIP-600IRRIGATION SPECIFICATIONSLL-100LANDSCAPE LIGHTING PLANLL-101LANDSCAPE PHOTOMETRIC PLANLL-500 - LL-502LIGHTING DETAILS

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

No. 91967

STATE OF

Digitally signed by Dillon Goodell
DN: CN=Dillon Goodell,
dnQualifier=A01410C00000182EF99E4340003FDD5,
O=WGI INC, C=US
Date: 2023.06.28 14:55:56-04'00'

ON THE DATE ADJACENT TO THE SEAL
PRINTED COPIES OF THIS DOCUMENT ARE
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ON ANY ELECTRONIC COPIES.

WGI 3111 W. DR. MARTIN LUTHER KING JR, BLVD, SUITE 375, TAMPA, FL 33617 DILLON J. GOODELL, P.E. NO 91967

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.

SHEET DESCRIPTION

S-1
SIGNATURE SHEET
C-1
GENERAL NOTES
C-2
DEMOLITION PLAN
C-3
GRADING AND DRAINAGE PLAN
C-4
UTILITY PLAN
C-5
UTILITY DETAILS

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Marc Remmert Marc Remmert 2023.06.28 14:01:58-05'00'

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE
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ON ANY ELECTRONIC COPIES.

WGI, INC. 4700 MUELLER BOULEVARD, SUITE 300, AUSTIN, TX 78723 MARC REMMERT, P.E. NO 86716

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

No. 86716

STATE OF

SONALE

SHEET NO.

S-1 SIGNATURE SHEET
E0.01 ELECTRICAL NOTES AND SYMBOLS
E1.00 ELECTRICAL SITE PLAN
E6.00 ELECTRICAL DETAILS AND SCHEDULES
E6.01 ELECTRICAL RISER DIAGRAM
E8.00 LIGHTING COMCHECK

SHEET DESCRIPTION

NO. DATE DESCRIPTION

NO. DATE DESCRIPTION

REVISIONS

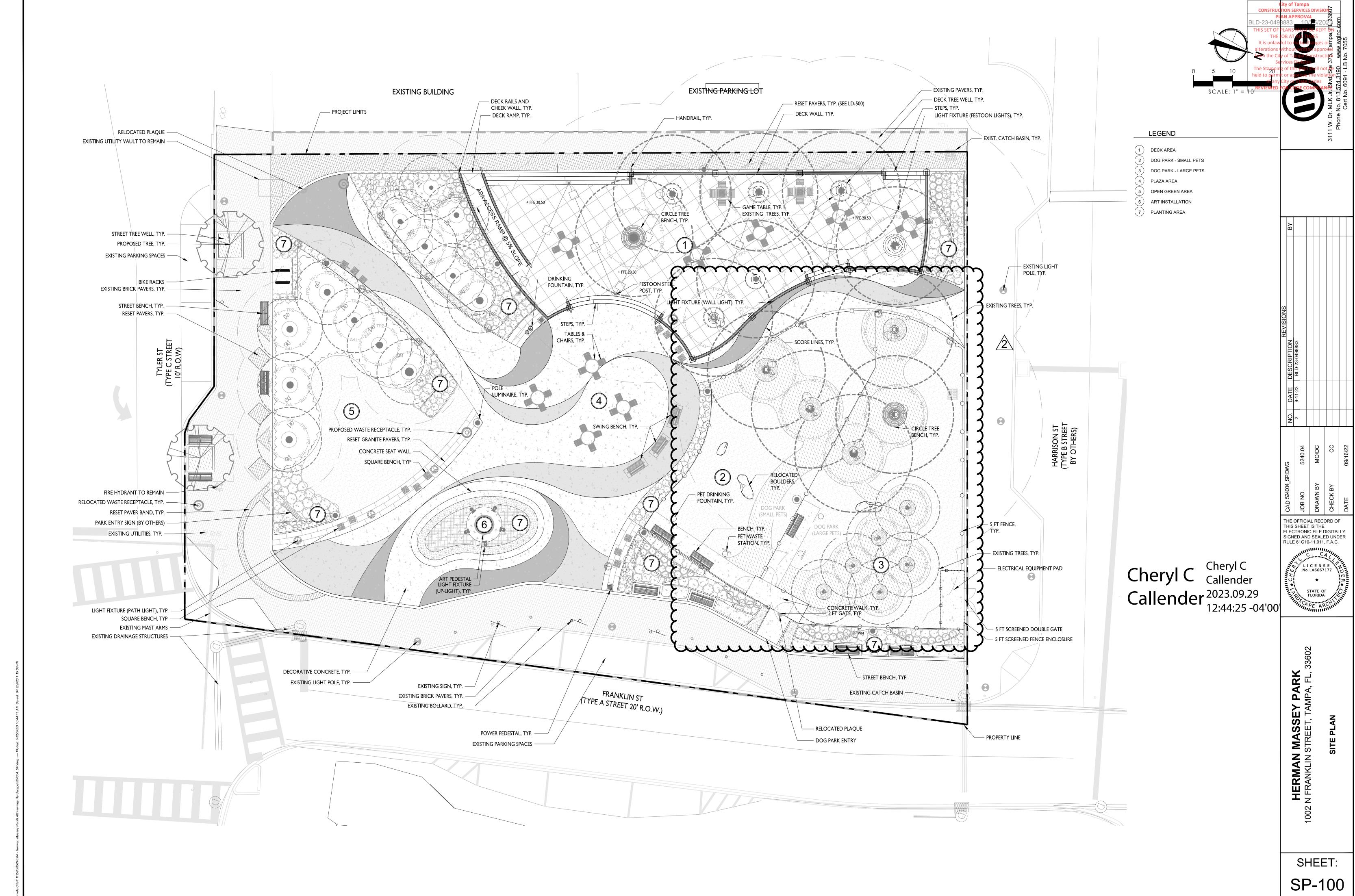
BY

PLAN APPR

HERMAN MASSEY PARK 1002 N FRANKLIN STREET, TAMPA, FL, 33602

SHEET:

1



	SITE UTILITY SYMBOLS SCHEDULE						
ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS							
SYMBOL	DESCRIPTION	REMARKS					
——UP——	UNDERGROUND PRIMARY DUCTBANK.						
——us——	UNDERGROUND SECONDARY DUCTBANK.						
——uc——	UNDERGROUND COMMUNICATIONS DUCTBANK.						
——EUP——	EXISTING UNDERGROUND PRIMARY DUCTBANK.						
—_EUS——	EXISTING UNDERGROUND SECONDARY DUCTBANK.						
—_EUC——	EXISTING UNDERGROUND COMMUNICATIONS DUCTBANK.						
——DUP——	REMOVE UNDERGROUND PRIMARY DUCTBANK.						
—	REMOVE UNDERGROUND SECONDARY DUCTBANK.						
—DUC—	REMOVE UNDERGROUND COMMUNICATIONS DUCTBANK.						
	EXISTING UTILITY COMPANY PAD MOUNT TRANSFORMER						
	UTILITY COMPANY PAD MOUNT TRANSFORMER						
	EXISTING UTILITY COMPANY PAD MOUNT SECTIONALIZING SWITCHGEAR						
	UTILITY COMPANY PAD MOUNT SECTIONALIZING SWITCHGEAR						
, 6	EXISTING UTILITY COMPANY OVERHEAD LINE POLE						
Ø	UTILITY COMPANY OVERHEAD LINE POLE						
•	EXISTING UNDERGROUND UTILITY MANHOLE						
0	UNDERGROUND UTILITY MANHOLE						

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KCMIL THOUSAND CIRCULAR MILS				
XFMR TRANSFORMER	KCMIL	THOUSAND CIRCULAR MILS		
			XFMR	TRANSFORMER

LIGHTING SYMBOLS SCHEDULE

ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS

NOTES:

1. IF WALL MOUNTED FIXTURE PROJECTS 4" OR MORE FROM FINISHED WALL THERE SHALL BE 80"

VERTICAL CLEARANCE A.F.F. PROVIDE A SEPARATE REFERENCE CONDUCTOR FOR THE FIXTURES BATTERY PACK, FED FROM THE SAME CIRCUIT AS THE FIXTURE. THIS REFERENCE CONDUCTOR SHALL NOT ROUTE THROUGH ANY LOCAL SWITCH OR LIGHTING CONTROL RELAY. ALL FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE SWITCHED AS SHOWN ON PLANS, UNO. ALL FIXTURES WITH EMERGENCY BATTERY PACKS SHALL BE PROVIDED WITH INTEGRAL RED TEST BUTTON, UNO.

SYMBOL	DESCRIPTION	REMARKS
0	2' x 4' LIGHT FIXTURE	
0	2' x 2' LIGHT FIXTURE	
	1' x 4' LIGHT FIXTURE	
	LINEAR STRIP LIGHTING FIXTURE	NOTE 1
	DOWNLIGHT	
Ō	WALL WASH/ADJUSTABLE DOWNLIGHT - ARROW INDICATED DIRECTION OF BEAM	
0	LINEAR LIGHT WALL MOUNTED FIXTURE	NOTE 1
Ю	WALL SCONCE	NOTE 1
∇ ∇ ∇	TRACK HEAD	
0	PENDANT	
lacktriangle	EXIT SIGN - SINGLE FACE	NOTE 1
•	EXIT SIGN - DUAL FACE	NOTE 1
	DUAL HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY PACK	NOTE 1
	SMALL ACCENT LUMINAIRE	
X	BOLLARD	
0>	LANDSCAPE LUMINAIRE	
(HG-1)	WHERE SHOWN, INDICATES PANEL AND CIRCUIT SERVING ALL FIXTURES IN THE SAME ROOM.	
0	TYPICAL FIXTURE EQUIPPED WITH EMERGENCY BATTERY BALLAST.	NOTE 2

── TYPICAL LIGHTING FIXTURE

a CONTROL SWITCH LEG

INDICATES PANEL AND

CIRCUIT SERVING

FIXTURE —

GENERAL ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE FLORIDA BUILDING CODE BUILDING, SEVENTH EDITION 2020 AND IT'S ADOPTED EDITION OF NFPA 70 - NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND AMENDMENTS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO MINIMIZE CONFLICTS.
- 3. ALL WIRE AND CABLE SIZES ARE FOR COPPER, UNLESS NOTED OTHERWISE AS ALUMINUM.
- 4. NO CONDUCTOR SHALL BE LOADED BEYOND ITS ALLOWABLE AMPACITY.

- 5. ELECTRICAL CONTRACTOR SHALL DOUBLE CHECK ALL FEEDER CONDUCTOR AND CONDUIT SIZES WITH NEC AND LOCAL CODES PRIOR TO BID, ORDERING OR CUTTING CONDUCTORS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH LANDSCAPE ARCHITECTURE DRAWINGS AND REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT/ENGINEER IMMEDIATELY. LIGHT FIXTURES ARE SHOWN IN APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION.
- UNLESS OTHERWISE NOTED, BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER (THW OR EQUAL) SIZED AS FOLLOWS:

BREAKER RATING	WIRE SIZE	BREAKER RATING	WIRE SIZE
15 AMP	#12 AWG	60 AMP	#4 AWG
20 AMP	#12 AWG	70 AMP	#4 AWG
30 AMP	#10 AWG	80 AMP	#3 AWG
40 AMP	#8 AWG	90 AMP	#2 AWG
50 AMP	#6 AWG	100 AMP	#1 AWG

ALL BRANCH CIRCUITS WITH AN OVERALL LENGTH IN EXCESS OF 75 FEET SHALL BE INCREASED IN WIRE SIZE TO ACCOMMODATE VOLTAGE DROP.

- CONTRACTOR SHALL CONNECT MOTORIZED DAMPERS FROM ASSOCIATED UNIT'S POWER SUPPLY FOR ALL PRV, SEF, SSF MISCELLANEOUS FANS, ETC. COORDINATE EXACT REQUIREMENTS WITH
- ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT.
- 10. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FOR FUTURE SERVICE PER NEC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND POINTS OF ACCESS.
- 11. LIGHT FIXTURES SHALL BE OPERATED BY SWITCH LOCATED IN SAME ROOM UNLESS OTHERWISE NOTED.
- 12. CONDUITS SHALL NOT BE ROUTED EXPOSED IN FINISHED AREAS UNLESS NOTED.
- 13. ALL SLEEVES THRU FLOOR SHALL BE SEALED WATERTIGHT AND SHALL TERMINATE MINIMUM 1" AFF.
- 14. CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS, DETERMINE THE EXTENT OF DEMOLITION REQUIRED TO FACILITATE NEW CONSTRUCTION AND INCLUDE ALL SUCH WORK IN HIS BID. NO ADDITIONAL FUNDS WILL BE AUTHORIZED FOR ANY EXTRA WORK OR MATERIAL NECESSARY DUE TO THE FAILURE OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS OR FOR LACK OF COORDINATION BETWEEN TRADES.
- 15. REFER TO LANDSCAPE ARCHITECTURE PLANS FOR EXACT LOCATION OF ALL LIGHT FIXTURES.
- 16. REFER TO LANDSCAPE ARCHITECTURE PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL EXTERIOR LIGHT FIXTURES.
- 17. PVC CONDUIT SHALL ONLY BE USED UNDERGROUND WITH PLASTIC COATED OR WRAPPED RIGID STEEL CONDUIT ELBOWS. ALL INTERIOR CONDUIT SHALL BE EMT.
- 18. PROVIDE NYLON COVERPLATES FOR ALL OUTLET BOXES.
- 19. SEAL AROUND ALL EXTERIOR WALL PENETRATIONS.
- 20. DRAWINGS ARE SCHEMATIC IN NATURE AND MAY NOT BE DRAWN EXACTLY TO SCALE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND ALL OTHER TRADES TO AVOID SPACING OR ROUTING PROBLEMS.
- 21. ALL CIRCUITS SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED IN ACCORDANCE WITH NEC 250.122, UNLESS NOTED OTHERWISE.
- 22. CONTRACTOR SHALL PROVIDE ACCURATE PANEL SCHEDULES. SCHEDULES SHALL INDICATE DEVICES AND/OR EQUIPMENT SERVED, LOCATION AND/OR ROOM NUMBERS.
- 23. WHERE NEW LIGHTS OR RECEPTACLES ARE NOTED TO BE CONNECTED TO AN EXISTING CIRCUIT. CONTRACTOR SHALL TRACE EXISTING CIRCUIT TO DETERMINE CIRCUIT LOADING. THE LOAD ON A 20 AMP CIRCUIT SHALL NOT EXCEED 16 AMPS. WHERE THIS CANNOT BE ACHIEVED, CONTRACTOR SHALL CONTACT ARCHITECT FOR ALTERNATE INSTRUCTIONS.
- 24. WHERE TIGHTENING TORQUE IS INDICATED AS A NUMERIC VALUE OR IN INSTALLATION INSTRUCTIONS PROVIDED BY THE MANUFACTURER, A CALIBRATED TORQUE TOOL SHALL BE USED TO ACHIEVE THE INDICATED VALUE, UNLESS THE EQUIPMENT MANUFACTURER HAS PROVIDED INSTALLATION INSTRUCTIONS FOR AN ALTERNATIVE METHOD OF ACHIEVING THE REQUIRED TORQUE. CONTRACTOR SHALL PROVIDE A LETTER TO THE ELECTRICAL INSPECTOR STATING THAT ALL ELECTRICAL EQUIPMENT HAS BEEN TORQUED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- 25. ALL EXTERIOR MOUNTED STRUT AND HARDWARE SHALL BE STAINLESS STEEL
- 26. ALL EXISTING POWER AND LIGHTING CIRCUITS ON THE EXISTING PARK SERVICE SHALL BE TRACED AND IDENTIFIED PRIOR TO ANY ELECTRICAL DEMOLITION WORK.
- AFTER COMPLETING AN ASSESMENT OF THE PARK'S EXISTING ELECTRICAL, THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF THE EXTENT AND DURATION OF ANY OUTAGES THAT WILL IMPACT LIGHTING OR POWER OUTSIDE THE SCOPE OF THIS PROJECT DURING CONSTRUCTION.

WIRING DEVICE SYMBOL SCHEDULE

ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS. ALL MOUNTING HEIGHTS ARE TO THE CENTER OF BOX, UNO.

SYMBOL	DESCRIPTION	REMAR
\bigoplus	20A, 120V DUPLEX RECEPTACLE	
—	20A, 120V DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPT (GFI)	
=	20A, 120V DUPLEX RECEPTACLE WITH ISOLATED INSULATED GROUND	
+	20A, 120V DOUBLE DUPLEX RECEPTACLE	
+	20A, 120V DOUBLE DUPLEX RECEPTACLE WITH ISOLATED INSULATED GROUND	
\ominus	20A, 120V SIMPLEX RECEPTACLE	
-	20A, 120V SIMPLEX RECEPTACLE WITH GROUND FAULT INTERRUPT (GFI)	
\oplus	SPECIAL PURPOSE RECEPTACLE. SEE PLANS FOR DETAILS	
	RECESSED FLOOR BOX WITH 20A, 120V DOUBLE DUPLEX RECEPTACLE	
	RECESSED FLOOR BOX WITH 20A, 120V DUPLEX RECEPTACLE	
•	20A, 120V DUPLEX RECEPTACLE - TOP HALF CONTROLLED BY WALL SWITCH	
V////////	MULTI OUTLET PLUG STRIP ASSEMBLY AS INDICATED ON POWER PLANS.	

SUBSCRIPTS INDICATE THE FOLLOWING:

- WP WEATHER RESISTANT RECEPTACLE IN A WEATHER PROOF IN-USE ENCLOSURE.
- SP RECEPTACLE WITH SURGE SUPPRESSION.
- TR TAMPER RESISTANT DUPLEX RECEPTACLE.
- C CLOCK RECEPTACLE. MOUNT AT 90" AFF. 48" - DEVICE MOUNTED AT 48" AFF. OTHER MOUNTING HEIGHTS AS INDICATED.
- H MOUNT DEVICE HORIZONTALLY.
- EWC RECEPTACLE SERVING ELECTRIC WATER COOLER. MOUNTING HEIGHT AS REQUIRED.
- G RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPER (GFCI).
- OC DEVICE MOUNTED OVER COUNTERTOP.

DIVISION 16 - ELECTRICAL SPECIFICATIONS

THIS DIVISION INCLUDES THE FOLLOWING:

POWER DISTRIBUTION.

LIGHTING FIXTURES AND RECEPTACLES. WIRING FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED UNDER OTHER DIVISION.

NEW ELECTRICAL SERVICE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. COMPLETED INSTALLATION SHALL MEET REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE AND ADOPTED

EDITION OF THE NATIONAL ELECTRICAL CODE.

COMPLETE INSTALLATION SHALL MEET REQUIREMENTS OF THE WILLIAMS-STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. ITS SUBSEQUENT AMENDMENTS. AND INTERPRETATIONS OF THE ACT PROMULGATED BY OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OF THE DEPARTMENT OF LABOR.

NEW POWER DISTRIBUTION SYSTEM WILL CONSIST OF A 208/120V, 3 PHASE, 4 WIRE SERVICE ENTRANCE, AND MAIN PANELBOARD.

THE ENTIRE SYSTEM, INCLUDING DEVICES, APPARATUS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250, NATIONAL ELECTRICAL CODE, CURRENT EDITION.

BRANCH CIRCUIT WIRING NO.10 AND SMALLER SHALL BE COPPER, SOLID, TYPE THHN/THWN. NO CONDUCTOR SHALL BE SMALLER THAN NO.12.

FEEDER AND POWER WIRING No.8 AND LARGER SHALL BE STRANDED COPPER, TYPE THHN/THWN.

ALL CONDUCTORS INSTALLED BELOW GRADE SHALL BE TYPE XHHW.

CONTROL AND FIRE ALARM SYSTEM WIRING SHALL BE No.14 AWG, TYPE THHN.

COLOR CODE ALL CONDUCTORS IN ACCORDANCE NFPA 70, ARTICLE 210.

WORK SHALL BE PERFORMED TO LIMIT THE NUMBER OF UNDERGROUND SPLICES. ANY SPLICE MADE

UNDERGROUND SHALL BE WET LOCATION RATED.

LIGHTING, POWER AND CONTROL WIRING SHALL BE INSTALLED IN CONDUIT. RIGID GALVANIZED CONDUIT SHALL BE USED WHERE CAST IN CONCRETE, WHERE EXPOSED TO POTENTIAL MECHANICAL DAMAGE, WHERE RUN OUTDOORS EXPOSED TO WEATHER, AND FOR PANEL FEEDERS. CONDUIT INSTALLED UNDERGROUND SHALL BE SCHEDULE 40 PVC. ALL RIGID GALVANIZED CONDUIT SHALL TRANSITION TO PVC BELOW SURFACE AND BE COATED WITH BITUMASTIC PROTECTION FROM 6" ABOVE GRADE TO BELOW SURFACE AT TRANSITION TO PVC. PROVIDE PULLSTRING IN ALL SPARE AND EMPTY CONDUITS.

BOXES

INTERIOR BOXES SHALL BE GALVANIZED STEEL, UL LISTED, SIZED PER NEC. EXTERIOR BOXES SHALL BE CAST METAL, UL LISTED, NEMA 3R. EXTERIOR BOXES INSTALLED IN OR BELOW GRADE WILL BE HUBBELL QUAZITE, OR EQUAL, DRIVE WEIGHT RATED AND INSTALLED WITH PROPER DRAINAGE.

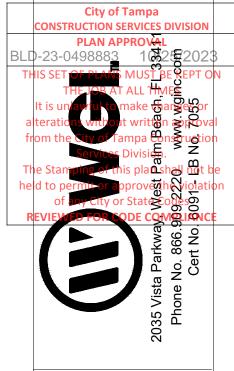
WIRING DEVICES

RECEPTACLES AND SWITCHES SHALL BE EQUIVALENT TO HUBBELL #5352 AND #1221 SERIES. DEVICE PLATES SHALL BE SMOOTH NYLON. GFI RECEPTACLES SHALL BE EQUAL TO HUBBELL #GF5352 SERIES. WEATHERPROOF COVERPLATES SHALL BE UL LISTED WEATHERPROOF WHEN IN USE. TAMPER RESISTANT RECEPTACLES SHALL BE EQUAL TO HUBBELL #HBLSG63H SERIES. ALL RECEPTACLES SHALL BE WEATHERPROOF AND TAMPER RESISTANT. ALL RECEPTACLES SHALL BE PROVIDED WITH LOCKABLE COVERS.

LIGHTING PANELBOARDS SHALL BE NEMA 3R SQUARE D NQOD/NF OR EQUAL DEAD-FRONT TYPE EQUIPPED WITH THERMAL-MAGNETIC CASE BOLT-ON CIRCUIT BREAKERS, TIN OR SILVER-PLATED COPPER BUS AND EQUIPMENT GROUND BAR WITH LOCKABLE COVER.

	POWER DISTRIBUTION SYMBOL SCHEDULE	
	ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS	
SYMBOL	DESCRIPTION	REMARKS
A-1,3,5	HOMERUN - TO CIRCUIT NO. 1,3,5 ON PANEL 'A'	
B100	FEEDER TAG. RE: ELECTRICAL FEEDER SCHEDULE FOR CONDUIT AND WIRE SIZE.	
	BRANCH CIRCUIT OR CONDUIT EXPOSED AND/OR SURFACE MOUNTED	
	BRANCH CIRCUIT OR CONDUIT UNDER FLOOR	
J	JUNCTION BOX	
\(\)	MOTOR	
\$ _M	MANUAL STARTER WITH THERMAL TRIP	
4	DISCONNECT SWITCH	
_	POWER AND/OR LIGHTING PANELBOARD, REFER TO PANELBOARD SCHEDULE	MOUNT AT AFF TO CENTER
	SWITCHBOARD / DISTRIBUTION PANELBOARD, REFER TO SWITCHBOARD SCHEDULE OR RISER DIAGRAM	
SPD	SURGE PROTECTIVE DEVICE. RE: SURGE PROTECTIVE DEVICE SCHEDULE FOR CONFIGURATION.	

ELECTRICAL SHEET LIST							
SHEET NUMBER	SHEET NAME						
E0.01	ELECTRICAL NOTES & SYMBOLS						
E1.00	ELECTRICAL SITE PLAN						
E6.00	ELECTRICAL DETAILS AND SCHEDULES						
E6.01	5.01 ELECTRICAL RISER DIAGRAM						
E8.00	LIGHTING COMCHECK						



REVISIONS	DATE DESCRIPTION									
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PARK HERMAN

SHEET

IRRIGATION CONTROLLER. FURNISH AND INSTALL A 120/24V TRANSFORMER WITH A 1A FUSE ON THE LOAD SIDE OF THE TRANSFORMER IN A NEMA 3R ENCLOSURE AND CONNECT TO THE IRRIGATION CONTROLLER. COORDINATE CONNECTION REQUIREMENTS WITH THE MANUFACTURER AND LOCATION WITH THE CITY PRIOR TO INSTALLATION.

ELECTRICAL PEDESTAL. RE: LANDSCAPE LIGHTING DRAWINGS FOR EXACT SPECIFICATIONS. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER AND LOCATION WITH CITY PRIOR TO INSTALLATION.

EXISTING ELECTRICAL SERVICE EQUIPMENT. DEMOLISH EQUIPMENT AND EXISTING SECONDARY FEEDERS BACK TO THE EXISTING TRANSFORMER. RE: E6.01.

NEW ELECTRICAL SERVICE DISCONNECT AND METER. RE: E6.01. EXISTING TAMPA ELECTRIC TRANSFORMER VAULT TO SERVE THE NEW PARK ELECTRICAL SERVICE.

PROPOSED LOCATION OF PEDESTRIAN RATED UNDERGROUND ELECTRICAL PULLBOX. CONTRACTOR SHALL FURNISH AND INSTALL UNDERGROUND PULLBOX MARKED "ELECTRIC". CONTRACTOR SHALL INSTALL PULL BOXES AS REQUIRED TO MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE ACCORDING TO THE ACTUAL FIELD INSTALLATION.

PROPOSED UNDERGROUND CONDUIT ROUTES. VERIFY EXACT ROUTES WITH LANDSCAPE PLANS AND FIELD CONDITIONS. WEATHERPROOF RECESSED JUNCTION BOX. CONTRACTOR SHALL ALIGN TOP WITH TOP OF PEDESTAL. COORDINATE EXACT REQUIREMENTS IN FIELD WITH ARTWORK INSTALLER.

ROUTE CONDUIT FOR ARTWORK IN FOUNDATION TO JUNCTION BOX, REFER TO SHEET LH-510 FOR ADDITIONAL DETAILS.

APPROXIMATE ROUTE OF EXISTING STREET LIGHTING CONDUCTORS AND CONDUIT SUPPLYING STREET LIGHTING WILL BE DEMOLISHED. STREET LIGHTING WILL BE RECONNECTED AS INDICATED. CONDUIT AND CONDUCTORS SERVING STREET LIGHT POLE MOUNTED RECEPTACLES SHALL BE EXTENDED AND RECONNECTED TO EXISTING PARK POWER.

EXTEND CIRCUIT (THREE (3) #10 IN 3/4" C.) TO ADJACENT STREET LIGHTING LOAD CENTER. STREET LIGHTING SHALL NOT BE DISCONNECTED FOR MORE THAN 48 HOURS. COORDINATE WITH CITY ENGINEER FOR EXACT CONNECTION POINT AND

EXISTING LANDSCAPE LIGHTING AND RECEPTACLES CIRCUITS FEEDING TREE LIGHTING AND PLANTERS ON HARRISON, CASS AND TYLER STREET TO BE INTERCEPTED AND EXTENDED TO THE NEW SERVICE POINT AS INDICATED ON SHEET E6.01.

MORE THAN THREE DAYS DURING THE TRANSFER OF CIRCUITS TO THE NEW SERVICE POINT. EXISTING TAMPA ELECTRIC SERVICE LATERAL CONDUIT TO BE

PROTECTED DURING THE COURSE OF DEMOLITION AND RE-USED FOR THE NEW SERVICE. NEW UNDERGROUND SERVICE ROUTE EXTENDED FROM THE EXISTING SERVICE LOCATION. REFER TO DETAIL 1/E6.01 AND

TECO SERVICE REQUIREMENTS FOR ADDITIONAL INFORMATION. PROPOSED LOCATION OF LED STRING LIGHT DRIVER/S. PROVIDE QUANTITY REQUIRED BY MANUFACTURER.

ADDITIONAL INFORMATION.

LED FESTOON LIGHTING DRIVER INSTALLED IN TREE MOUNTED

PRIMARY ELECTRIC DESIGN COMPONENTS, INCLUDING QUANTITY, ROUTING AND LOCATION OF CONDUIT, PULLBOXES, TRANSFORMERS, ETC. ARE CONCEPTUAL BASIS OF DESIGN AND ARE SHOWN FOR PRELIMINARY PRICING AND COORDINATION ONLY. CONTRACTOR SHALL COORDINATE WITH TAMPA ELECTRIC COMPANY. TAMPA ELECTRIC COMPANY CONSTRUCTION DOCUMENTS SHALL BE GOVERNING DOCUMENTS RELATED TO ELECTRICAL PRIMARY DESIGN AND

KEYNOTES - E1.00

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STATE OF

HERMAN MASSEY PARK CTRICAL

> SHEET: E1.00

	LIGHT FIXTURE SCHEDULE							
TYPE	MANUFACTURER	FIXTURE CATALOG NO.	LAMP	FIXTURE WATTS	VOLTAGE	MOUNTING	REMARKS	
A	TIVOLI	LED STRING: LSL-B-24-H-30-S-12, DRIVER: ADNM-60-1-5-12-DOT	LED. 90 LUMENS/BULB. 3000K	1 W/LF	12 V	STRING	MOUNTED 12' AFG ON STEEL POLE WITH CATENARY CABLE. V LED REQUIRED. 3 RUNS REQUIRED	
D	LUMENPULSE	PUR100Y-120/277-CSL-M80-30K-CRI 80-5S-**-DIM-TN4	LED. 8000 LUMENS. 3000K, 80 CRI	64 W	120 V	POLE	POLE TOP LED LIGHT. MOUNT 12' AFG.	
E	BEGA	77 089	LED. 875 LUMENS. 3000K, 80 CRI	8 W	120 V	BOLLARD	LED BOLLARD	
G	HYDREL	ASPEN-A-P1-80CRI-30K-12-35DEG-WSL-KM-*TRAS L3 C2 **	LED, 1955 LUMENS, 3000K, 80 CRI	8 W	120 V	POLE/FESTOO N	OUTDOOR GROUND MOUNTED UPLIGHT. TRIAC DIMMING.	
Н	HYDREL	ASPEN-A-P1-80CRI-30K-12-35DEG-WSL-KM-*TRAS L3 C2 **	LED. 674 LUMENS. 3000K, 80 CRI	8 W	120 V	BOLLARD	OUTDOOR TREE MOUNTED LED ACCENT LUMINAIRE - UPLIGHT. TRIAC DIMMING.	
I	HYDREL	ASPEN-A-P1-80CRI-30K-12-55DEG-WSL-KM-*TRAS L3 C2 **	LED, 641 LUMENS, 3000K, 80 CRI	8 W	120 V	BOLLARD	FIXTURE POWERED VIA 120-12V DRIVER INSTALLED IN TREE MOUNTED JUNCTION BOX. SEE LANDSCAPE ARCHITECT PLANS FOR ADDITIONAL INFORMATION.	
J	EXISTING	EXISTING	EXISITNG	90 W	120 V	POLE	EXISTING TO REMAIN STREET LIGHTING.	

LIGHTING FIXTURE SCHEDULE NOTES

LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION.

- 1. ALL LIGHT FIXTURE FINISHES SHALL BE SELECTED AND APPROVED BY THE CITY PRIOR TO INSTALLATION.
- 2. COORDINATE FINAL ADJUSTMENT OF ALL ADJUSTABLE LIGHT FIXTURES WITH THE CITY AND ARCHITECT.
- COORDINATE FINAL ADJUSTMENT OF ALL ADJUSTABLE LIGHT FIXTURES WITH THE CITY AND ARCHITECT.
 TYPE 'C' FIXTURES SHALL BE PROVIDED WITH 12'-0" HEIGHT, ROUND TAPERED ALUMINUM POLE. REFER TO LANDSCAPE ARCHITECTS
 LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION.
- 4. TYPE 'A' FESTOON FIXTURES SHALL BE PROVIDED WITH 25'-0" HEIGHT, SQUARE STRAIGHT STEEL POLE. REFER TO LANDSCAPE
- ARCHITECTS LIGHTING DRAWINGS FOR ADDITIONAL INFORMATION.
 5. TYPE 'F' FIXTURES SHALL BE PROVIDED WITH 10'-0" HEIGHT, ROUND TAPERED ALUMINUM POLE. REFER TO LANDSCAPE ARCHITECTS

LIGHTING CONTROL NOTES

COMPLIANCI

- LIGHTING IS DESIGNED IN COMPLIANCE WITH 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION.

LANDSCAPE LIGHTING:

IRRIGATION CONTROLLER SHALL PROVIDE 'ON'/'OFF' CONTROL AS A FUNCTION OF DUSK/DAWN AND TIME CLOCK WILL PROVIDE 'ON'/'OFF' CONTROL OF LIGHTING AT A PRE-DETERMINED TIME. COORDINATE 'ON'/'OFF' CONTROL TIMES WITH THE CITY.

WALKWAY LIGHTING:

IRRIGATION CONTROLLER SHALL PROVIDE 'OFF' CONTROL AS A FUNCTION OF AVAILABLE LIGHT AND TIME CLOCK WILL PROVIDE 'ON' CONTROL OF LIGHTING AT A PRE-DETERMINED TIME. COORDINATE 'ON' CONTROL TIMES WITH THE CITY.

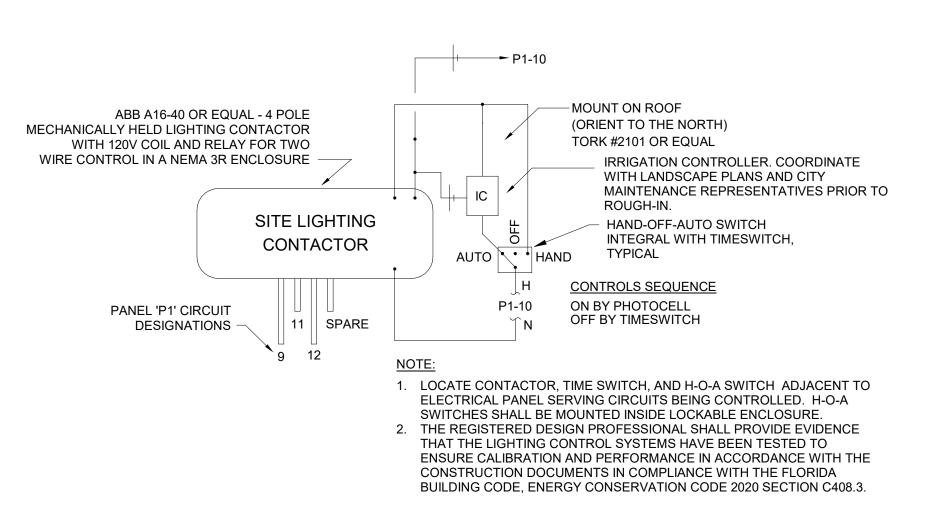
PIR MOTION SENSORS WILL REDUCE THE LIGHTING OUTPUT BY AT LEAST 30% FROM WHEN NO MOTION IS DETECTED WITHIN 15 MINUTES.

GENERAL:

PROVIDE FUNCTIONAL TESTING AND COMMISSIONING OF AUTOMATIC LIGHTING SYSTEMS BY A REGISTERED DESIGN PROFESSIONAL IN ACCORDANCE WITH 2020 FLORIDA BUILDING CODE - ENERGY CONSERVATION. PROVIDE TWO HOURS OF TRAINING FOR THE CITY AT TIME OF COMMISSIONING.

LIGHTING CONTROLS:

- LIGHTING CONTROLS BASIS OF DESIGN IS ACUITY BRANDS.



EXTERIOR LIGHTING CONTROL DETAIL

NO SCALE

2 EXTERIOR LIGHTING CONTROL DETAIL (SINGLE CONTACTOR)
NOT TO SCALE



REVISIONS	NO. DATE DESCRIPTION									
	DATE									
	NO.									
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HERMAN MASSEY PARK
ELECTRICAL DETAILS AND
SCHEDULES

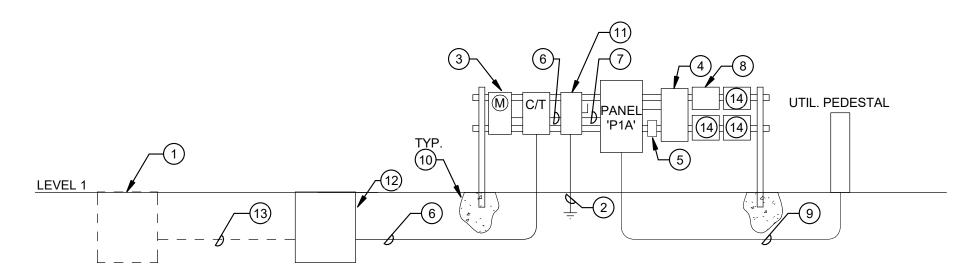
SHEET: **E6.00**

LOCATION: FED FROM: MOUNTING: SURFACE ENCLOSURE: NEMA 3R NOTES:					VOLTS: 120/208 Wye PHASES: 3 WIRE: 4						A.I.C. RATING: 22 KAIC FULLY RATED MAINS TYPE: MLO BUS RATING: 400 A MCB RATING: N/A			
		TRIP									TRIP			
KT	CIRCUIT DESCRIPTION	(AMPS)	POLES	Α	В	С	Α	В	С	POLES	(AMPS)	CIRCUIT DESCRIPTION	СКТ	
$\frac{1}{3}$ POW	VER PEDESTAL	100	2	9600	9600		9600	9600		2	100	POWER PEDESTAL	2	
	EVICE MAINTENANCE RCPT	20	1		9600	180		9600	100	1	20	IRRIGATION CONTROLLER	6	
	ILPTURE	20	1	500		100	200		100	1	20	LTG TIMECLOCK	8	
	HTING	20	1	000	524		200	792		1	20	LIGHTING	10	
11 SPA		20	1			0			0	1	20	SPARE	12	
	STREET LIGHTING POLE RECEPTACLES	20	1	1536			3000						14	
15	LTG; TREE	20	2		300			3000		2	50	EX. REC; HARRISON ST	16	
17	LIG; IREE	20	2			300			1000	1	20	EX. REC; HARRISON ST	18	
19 _{EY 1}	LTG; TREE	20	2	300			800			1	20	EX. REC; TYLER ST	20	
21			2		300			800		1	20	EX. REC; TYLER ST	22	
	STREET LIGHTING POLE RECEPTACLES	20	1			1536			2000	2	30	EX. REC; TYLER ST	24	
	STREET LIGHTING POLE RECEPTACLES	20	1	1536			2000				00	LX. REO, TTEER OT	26	
	STREET LIGHTING POLE RECEPTACLES	20	1		1536			2000		2	30	EX. REC; TYLER ST	28	
	STREET LIGHTING POLE RECEPTACLES	20	1	4500		1536	2000		2000				30	
	STREET LIGHTING POLE RECEPTACLES	20	1	1536	4500		2000	0000		2	20	EX. REC; CASS ST	32	
	STREET LIGHTING POLE RECEPTACLES	20	1		1536	4500		2000	000		20	EV DEC. CACC CT	34	
	STREET LIGHTING POLE RECEPTACLES STREET LIGHTING POLE RECEPTACLES	20	1	1536		1536	1536		800	1	20	EX. REC; CASS ST EX. STREET LIGHTING POLE RECEPTACLES	36 38	
37 EA. 39	STREET LIGHTING POLE RECEPTACLES	20	ı	1030			1556			ı	20	EX. STREET LIGHTING POLE RECEPTACLES	40	
41													42	
43													44	
45													46	
47													48	
49													50	
51													52	
53													54	
55													56	
57													58	
59													60	
			TOTALS		4		В	(
	TOTAL AMPS A-N:	324		35	680	319	988	109		KVA	AMPS			
	TOTAL AMPS B-N: TOTAL AMPS C-N:	293 92						TOTAL CO	NNECTED: DEMAND:	78.66 78.66	218 218			

EQUIPMENT SCHEDULE									
SERVES LOCATION TYPE RATING VOLTAGE POLES FUSED NOTES							NOTES		
SERVICE DISCONNECT	RACK MOUNTED	NEMA 3R	400A	240 V	3	Yes	SERVICE ENTRANCE RATED WITH 400A FUSES.		

KEYNOTES - E6.01

- 15 CONTROLLED VIA IRRIGATION CONTROLLER. FURNISH AND INSTALL NEW ELECTRICALLY HELD CONTACTOR. 30A, 8 POLE WITH A 24V COIL, 120V RATED CONTACTS, 120V-24V CONTROL POWER TRANSFORMER WITH FUSED PRIMARY AND SECONDARY. MOUNT IN A NEMA 3R ENCLOSURE. ABB TYPE A OR EQUAL. PROVIDE CONDUIT AND CONDUCTORS FROM IRRIGATION CONTROLLER TO CONTACTORS FOR ON/OFF CONTROL. PROVIDE 1 ZONE FOR EACH CONTACTOR.
- 16 CONTROLLED VIA IRRIGATION CONTROLLER. FURNISH AND INSTALL NEW ELECTRICALLY HELD CONTACTOR. 50A, 3 POLE WITH A 24V COIL, 120V RATED CONTACTS, 120V-24V CONTROL POWER TRANSFORMER WITH FUSED PRIMARY AND SECONDARY. MOUNT IN A NEMA 3R ENCLOSURE. ABB TYPE A OR EQUAL. PROVIDE CONDUIT AND CONDUCTORS FROM IRRIGATION CONTROLLER TO CONTACTORS FOR ON/OFF CONTROL. PROVIDE 1 ZONE FOR EACH CONTACTOR.
- 17 CONTROLLED VIA IRRIGATION CONTROLLER. FURNISH AND INSTALL NEW ELECTRICALLY HELD CONTACTOR. 30A, 12 POLE WITH A 24V COIL, 120V RATED CONTACTS, 120V-24V CONTROL POWER TRANSFORMER WITH FUSED PRIMARY AND SECONDARY. MOUNT IN A NEMA 3R ENCLOSURE. ABB TYPE A OR EQUAL. PROVIDE CONDUIT AND CONDUCTORS FROM IRRIGATION CONTROLLER TO CONTACTORS FOR ON/OFF CONTROL. PROVIDE 1 ZONE FOR EACH CONTACTOR.
- 18 EXISTING LANDSCAPE LIGHTING AND RECEPTACLE CIRCUITS FED FROM SERVICE POINT BEING DEMOLISHED. INTERCEPT CIRCUITS AND EXTEND TO NEW SERVICE POINT PANEL 'P1'. THESE CIRCUITS WILL NOT REMAIN UNPOWERED FOR MORE THAN 48 HOURS DURING THE COURSE OF CONSTRUCTION.





KEYNOTES - E6.01

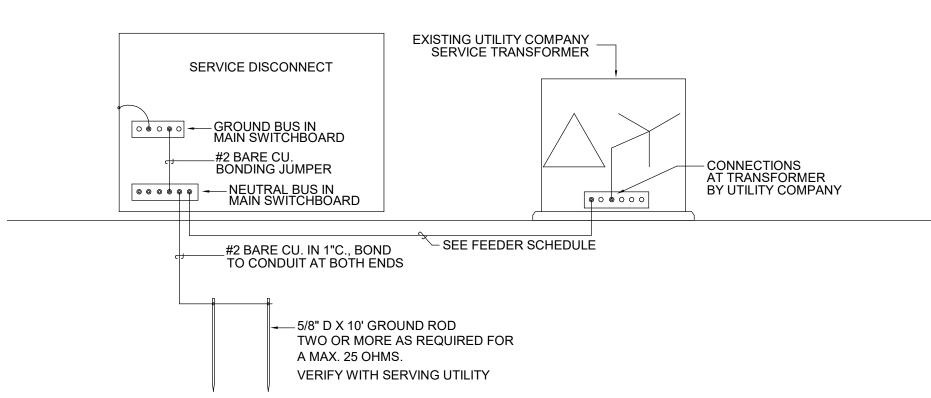
- 1 EXISTING TAMPA ELECTRICAL COMPANY VAULT.
- 2 GROUND PER TAMPA ELECTRIC REQUIREMENTS AND SYSTEM GROUNDING DIAGRAM
- THIS SHEET.

 3 RACK MOUNT METER AND CT CABINET. INSTALL PER TAMPA ELECTRIC
- REQUIREMENTS.
- FURNISH AND INSTALL LIGHTING CONTROL EQUIPMENT IN A STAINLESS STEEL, WEATHERPROOF, TAMPER RESISTANT ENCLOSURE. REFER TO SHEET E6.00 FOR ADDITIONAL INFORMATION.
- 5 WEATHERPROOF, GFCI MAINTENANCE RECEPTACLE.
- 6 TWO(2) SET: FOUR(4) 250KCM AL IN 4" CONDUIT PER SET
- 7 TWO(2) SET: FOUR(4) 250KCM AL AND #1G AL IN 4" CONDUIT PER SET
- 8 IRRIGATION CONTROLLER BY OTHERS. FURNISH AND INSTALL TRANSFORMER IN STAINLESS STEEL, WEATHERPROOF, TAMPER RESISTANT ENCLOSURE. RE: SHEET E1.00 FOR ADDITIONAL INFORMATION.
- 9 TYPICAL TWO (2) UTILITY PEDESTALS. FURNISH AND INSTALL ONE(1) SET: THREE(3) #3 CU AND #8G CU IN 2" CONDUIT PER SET. RE: SHEET E1.00 FOR LOCATION AND ADDITIONAL INFORMATION.
- 10 MINIMUM 6" BY 6" CONCRETE POST.
- 11 400A, FUSED, HEAVY DUTY, 3 POLE, NEMA 3R, SERVICE RATED DISCONNECT
- FURNISHED AND INSTALLED BY THE CONTRACTOR.

 12 NEW UNDERGROUND PULL BOX PER TAMPA ELECTRIC REQUIREMENTS AT EXISTING
- PARK SERVICE POINT TO BE EXTENDED TO NEW LOCATION.

 13 EXISTING SERVICE CONDUIT DO BE RE-USED FOR NEW ELECTRICAL SERVICE.
- COORDINATE FINAL REQUIREMENTS WITH TAMPA ELECTRICAL COMPANY.

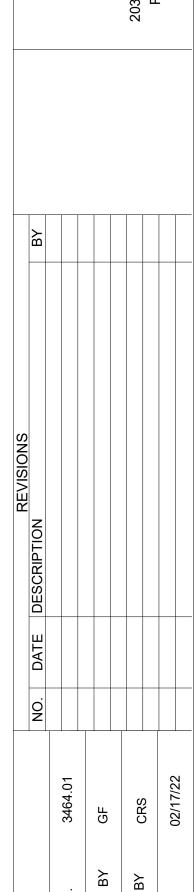
 14 NEW CONTACTOR CONTROLLED VIA IRRIGATION CONTROLLER. RE: PANEL SCHEDULE KEYNOTES.



NOTES:

- 1. PROVIDE BONDING JUMPERS FROM SERVICE CONDUITS TO NEUTRAL BUS AND FROM GROUNDING ELECTRODE CONDUCTOR'S CONDUIT TO NEUTRAL BUS.
- WHERE GROUNDING CONDUCTOR IS RUN IN CONDUIT, BOND CONDUCTOR TO CONDUIT AT BOTH ENDS.





THE OFFICIAL RECORD OF

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MARC REMMERS

STATE OF

HERMAN MASSEY PARK
ELECTRICAL RISER DIAGRAM

SHEET: **E6.01**

COMcheck Software Version 4.1.5.5

Project Information

2018 IECC Energy Code: Herman Massey Project Title: Project Type: Alteration

4 (High activity metropolitan commercial district (LZ4)) Exterior Lighting Zone

Construction Site: Owner/Agent: Designer/Contractor: 1002 N Franklin Street Tampa, FL 33602

Allowed Exterior Lighting Power

Area/Surface Category Watts / Unit Wattage (B X C) PARK (Landscaping) Total Tradable Watts (a) = 1112 Total Allowed Watts =

Total Allowed Supplemental Watts (b) =

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces. (b) A supplemental allowance equal to 900 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

A	В	С	D	E
Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt.	(C X D)
PARK (Landscaping 27806 ft2); Tradable Wattage				
LED 1: A: Other:	1	1	238	238
LED 2: C: Other:	1	11	64	704
LED 3: D: Other:	1	14	7	98
LED 4; E; Other;	1	5	20	100
LED 5: G: Other:	1	8	8	64
LED 6: H: Other:	1	26	11	286
LED 7: I: Other:	1	12	11	132
	Total Tra	dable Propos	ed Watts =	1622

Eutories Liebtine		
Exterior Lighting	PASSES	

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Casey Sveiven, P.E. 11/18/2022 Name - Title

Project Title: Herman Massey Report date: 10/26/22 Data filename: Untitled.cck Page 1 of 5

COMcheck Software Version 4.1.5.5 **Inspection Checklist**

Requirements: 0.0% were addressed directly in the COMcheck software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception

is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR8] ¹	calculations provide all information with which compliance can be determined for the exterior lighting	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

Data filename: Untitled.cck

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Herman Massey Report date: 10/26/22

Page 2 of 5

Rough-In Electrical Inspection Comments/Assumptions Complies? & Req.ID C405.2.5 Manual controls required by the [EL28]^{null} energy code are in a location with Does Not ready access to occupants and located where the controlled lights are Not Observable visible, or identify the area served and their status. C405.2.6 Automatic lighting controls for exterior Complies [EL30]^{null} lighting installed. Controls will be Does Not daylight controlled, set based on □Not Observable
□Not Applicable business operation time-of-day, or reduce connected lighting > 30%. C405.6 Low-voltage dry-type distribution [EL26]² electric transformers meet the minimum efficiency requirements of ■Not Observable Table C405.6. ■Not Applicable C405.7 Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). C405.7(1) through C405.7(4).

Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist). C405.8.2. Escalators and moving walks comply C405.8.2. with ASME A17.1/CSA B44 and have Does Not automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable [EL28]² reduce speed to the minimum local code when not conveying C405.9 Total voltage drop across the [EL29]² combination of feeders and branch Does Not circuits <= 5%. ■Not Observable
■Not Applicable

Additional Comments/Assumptions:

Data filename: Untitled.cck

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Herman Massey Report date: 10/26/22

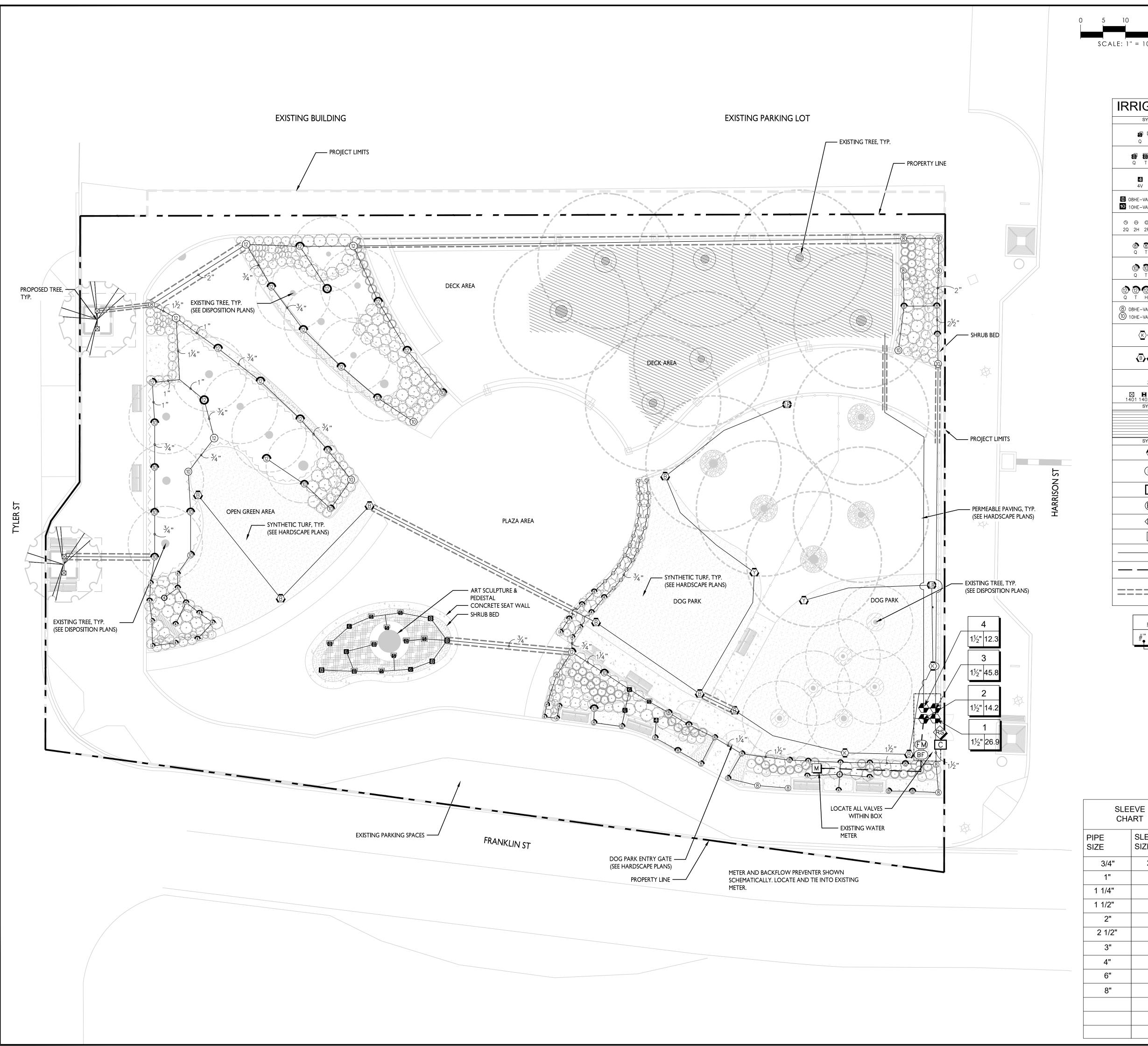
Page 3 of 5

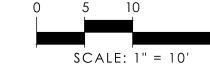
Final Inspection Complies? Comments/Assumptions & Req.ID C405.5.1 Exterior lighting power is consistent See the Exterior Lighting fixture schedule for values. with what is shown on the approved Does Not lighting plans, demonstrating proposed watts are less than or equal to allowed watts. to allowed watts. C408.1.1 Building operations and maintenance Complies documents will be provided to the Does Not [FI57]¹ documents will be provided to the owner. Documents will cover ■Not Observable manufacturers' information, specifications, programming ■Not Applicable procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated. Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Herman Massey Report date: 10/26/22 Data filename: Untitled.cck Page 4 of 5 THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004. STATE OF

> HERMAN MASSEY PARK
> IGHTING COMCHECK LIGHTING

> > SHEET: E8.00







IRRIGATION SCHEDULE MANUFACTURER/MODEL/DESCRIPTION RAIN BIRD 1806 5 SERIES MPR TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. RAIN BIRD 1806 ADJ TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. RAIN BIRD 1806 HE-VAN SERIES RAIN BIRD 1806 HE-VAN SERIES
TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND
10 10HE-VAN 15 15HE-VAN
BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. RAIN BIRD 1812-U U8 SERIES
SHRUB SPRAY, 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. RAIN BIRD 1812-U U10 SERIES
SHRUB SPRAY, 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND
BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. RAIN BIRD 1812-U U12 SERIES
SHRUB SPRAY, 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND
BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. 8 08HE-VAN 12 12HE-VAN 15 15HE-VAN 15 15HE-VAN BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. HUNTER MP2000 PROS-06-PRS40-CV TURF ROTATOR, 6" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC. TURF ROTATOR, 6" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC. BYA RAIN BIRD 1402 SERIES FLOOD ADJUSTABLE FLOW (0.5 GPM), FULL CIRCLE BUBBLER, 1/2" FIPT INLET. RAIN BIRD 1800-1400 FLOOD 1401 FIXED FLOW RATE (0.25-2.0GPM), FULL CIRCLE BUBBLER, 1/2" FIPT. SYMBOL MANUFACTURER/MODEL/DESCRIPTION AREA TO RECEIVE DRIPLINE TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 973.0 L.F. 0.9 GPH EMITTERS AT 24" O.C. DRIPLINE LATERALS SPACED AT 24" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM. MANUFACTURER/MODEL/DESCRIPTION IRRITROL 214B ELECTRIC REMOTE CONTROL VALVE, GLOBE/ANGLE CONFIGURATION PRESSURE VACUUM BREAKER, BRASS WITH BALL VALVE SOV. INSTALL 12" (305MM)
ABOVE HIGHEST DOWNSTREAM OUTLET AND THE HIGHEST POINT IN THE
DOWNSTREAM PIPING. EXISTING IRRINET M CONTROLLER MASTER METER MULTI-JET W/ ELECTRICAL OUTPUT REGISTER (10 GPM RATE) AND MAXI-COM CABLE HOSE BIB EXISTING WATER METER 1" PVC SCHEDULE 40 IRRIGATION PIPE. ONLY LATERAL TRANSITION PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, WITH ALL OTHERS BEING 3/4" IN SIZE. IRRIGATION MAINLINE: 1 ½" PVC SCHEDULE 40 PIPE SLEEVE: PVC SCHEDULE 40
TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.

# •		Valve	Num
#"	#•	Valve	Flow
		Valve	Size

CHART		
PIPE SIZE	SLEEVE SIZE	
3/4"	2 1/2"	
1"	3"	
1 1/4"	3"	
1 1/2"	4"	
2"	4"	
2 1/2"	6"	
3"	6"	
4"	8"	
6"	10"	
8"	12"	



PARK MPA, FL, HERMAN MASSEY N FRANKLIN STREET, TAN

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ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G10-11,011, F.A.C.

SHEET: IP-100

IRRIGATION NOTES

SYSTEM DESCRIPTION

THIS IS A CLOCK START SYSTEM WITH AN EXISTING POTABLE WATER METER.

WORK

THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. SUBMIT CERTIFICATION TO THE OWNER'S REPRESENTATIVE PRIOR TO PRE-CONSTRUCTION MEETING.

FOLLOW THESE NOTES IN ADDITION TO CITY REQUIREMENTS AND DESIGN STANDARDS. IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS BETWEEN THE PLANS AND CITY REQUIREMENTS.

VERIFY SITE CONDITIONS BEFORE BIDDING. INSTALLATIONS MAY REQUIRE ADDITIONAL EQUIPMENT FOR SPECIFIC SITE CONDITIONS. INCLUDE ALL COSTS TO COMPLETE THE SCOPE

INCLUDE ALL REQUIRED PERMIT FEES IN BID. OBTAIN ALL REQUIRED PERMITS AT NO ADDITIONAL CHARGE.

IMMEDIATELY REPAIR AND/OR REPLACE ANY ITEM DAMAGED BY CONSTRUCTION OF THE IRRIGATION SYSTEM AT NO CHARGE.

INSTALLATIONS

PROVIDE MANUFACTURER CUT SHEETS FOR EVERY ITEM TO BE INSTALLED FOR APPROVAL.

PROVIDE ONLY NEW EQUIPMENT AND AS SPECIFIED WITHIN THE PLANS.

ELECTRICAL SERVICE CONNECTIONS AND REQUIREMENTS INDICATED WITHIN THE PLANS ARE PRIOR TO ELECTRICAL PROVIDERS DESIGN. COORDINATE FINAL ELECTRICAL DESIGN REQUIREMENTS WITH THE ELECTRICAL PROVIDER PRIOR TO BID.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE FLORIDA BUILDING CODE (FBC) 6TH EDITION (2017), THE NATIONAL ELECTRICAL CODE (NEC) 2014 EDITION AND CHAPTER 5 OF THE CITY OF TAMPA MUNICIPAL CODE.

PLAN ADJUSTMENTS:

PLAN LAYOUT IS SCHEMATIC FOR GRAPHIC CLARITY. INSTALL IN PERVIOUS AREAS, EXCEPT WHERE SLEEVING IS SHOWN.

AS-BUILT PLANS:

PREPARE AS-BUILT PLANS AS THE WORK PROGRESSES, INDICATING THE ACTUAL LOCATION OF EQUIPMENT. KEEP THE AS-BUILT PLAN SET ON SITE DURING CONSTRUCTION. SUBMIT FINAL AS-BUILT TO THE CITY.

TRENCHING AND PIPE INSTALLATION:

INSTALL PIPE ON A STABLE FOUNDATION. IF NECESSARY, REMOVE UNSTABLE SOIL OR MUCK FROM THE TRENCH BOTTOM AND INSTALL A 6 INCH FOUNDATION OF COMPACTED CLASS 1 BEDDING MATERIAL. REMOVE WATER FROM THE TRENCH BEFORE BACKFILLING. EXCAVATE 6 INCHES BELOW THE PIPE BOTTOM WHEN TRENCHING THROUGH ROCK AND INSTALL CLASS 1 BEDDING MATERIAL. BACKFILL TRENCHES AND COMPACT TO FINISHED GRADE WITH EXISTING SOILS FREE OF DEBRIS, ROOTS, ROCKS OR OBJECTS THAT COULD DAMAGE THE PIPE. TUNNEL UNDER TREE ROOTS.

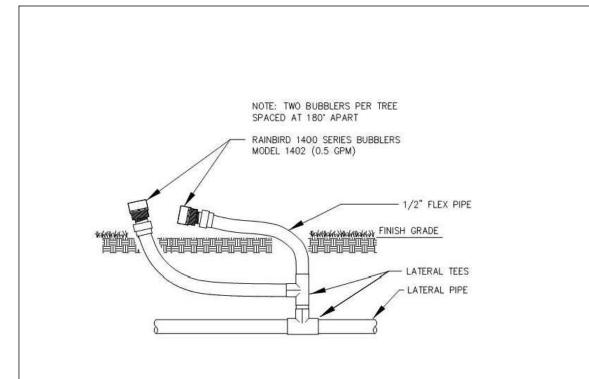
MAKE PVC SOLVENT WELD CONNECTIONS IN ACCORDANCE WITH ASTM D2855. APPLY PURPLE COLORED PVC PRIMER IN ACCORDANCE WITH ASTM F656. APPLY PVC CEMENT IN ACCORDANCE WITH ASTM D2564.

PRIOR TO INSTALLATION OF THE VALVES, FLUSH MAINLINES FOR A MINIMUM OF 10 MINUTES

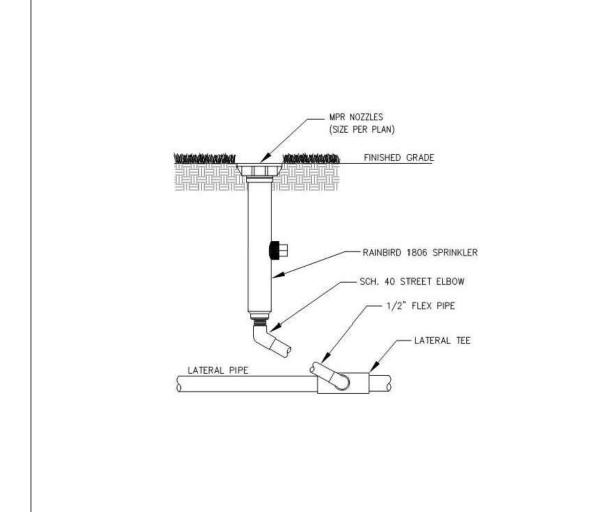
OR UNTIL LINES ARE CLEAR OF DEBRIS; WHICHEVER IS LONGER. PRIOR TO INSTALLATION OF THE HEADS, FLUSH LATERAL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE CLEAR OF DEBRIS; WHICHEVER IS LONGER.

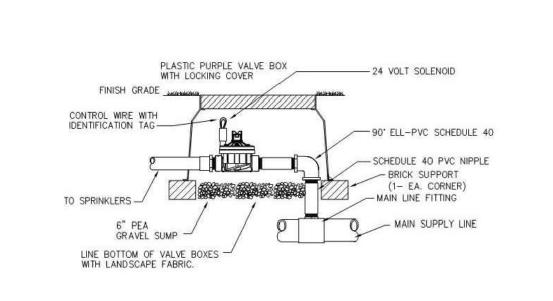
THERE IS NO ALLOWABLE LEAKAGE IN SOLVENT WELDED PVC PIPE.

<u>IRRIGATION HEAD PRESSURE TEST:</u>
PERFORM PRESSURE TEST ON EACH ZONE AT THE FIRST AND LAST IRRIGATION HEADS. THE MAXIMUM ALLOWABLE PRESSURE DEVIATION IS 10 PERCENT.



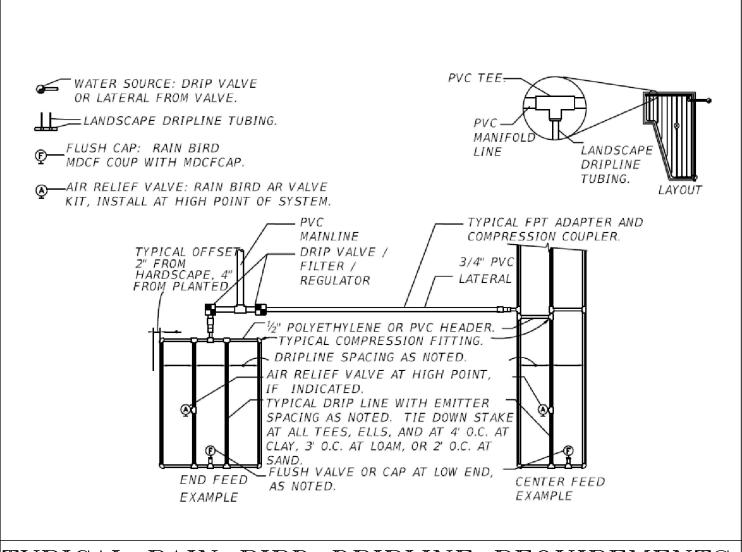
RAINBIRD 1400 SERIES BUBBLER

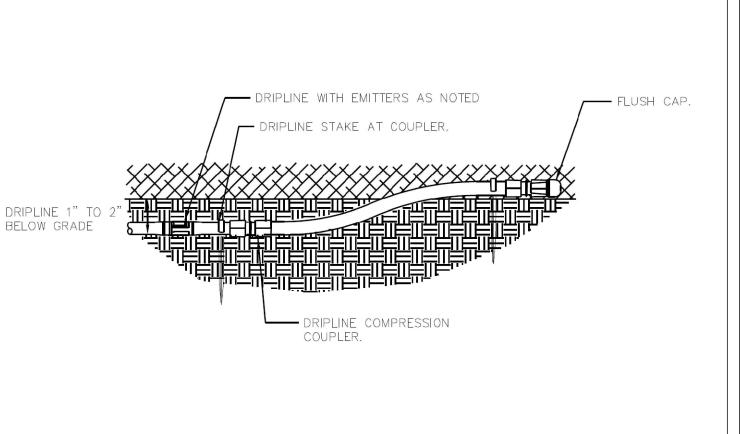


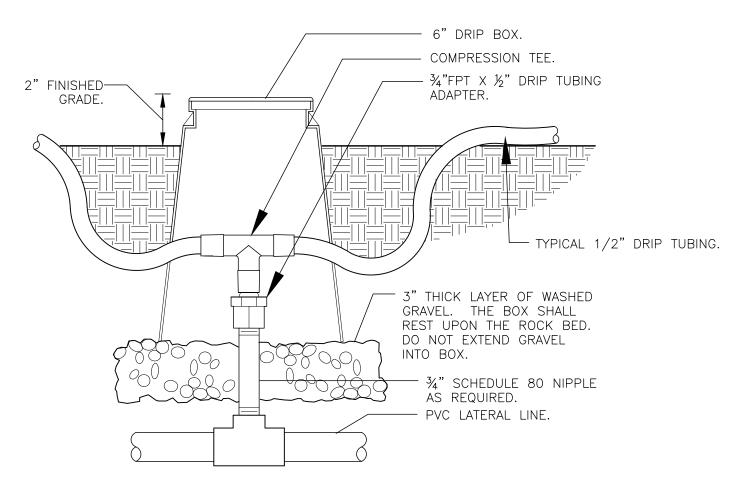


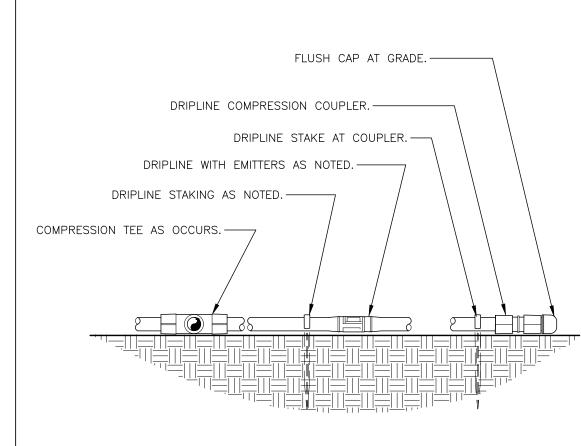
SPRAY HEAD / ROTARY HEAD

IRRITROL 200B SERIES CONTROL VALVE







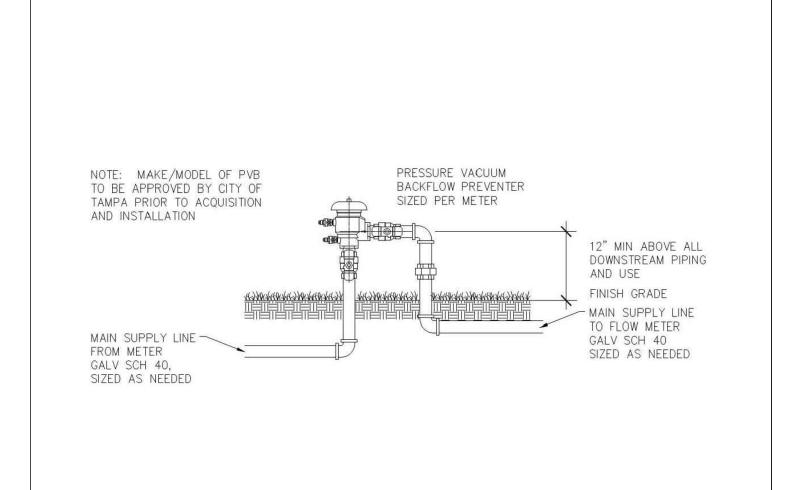


TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

DRIPLINE FLUSH VALVE

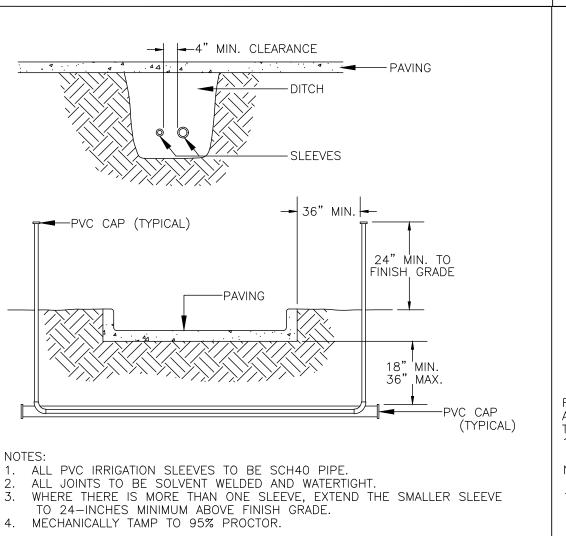
RAIN BIRD DRIP ZONE CONTROL

DRIPLINE AT GRADE

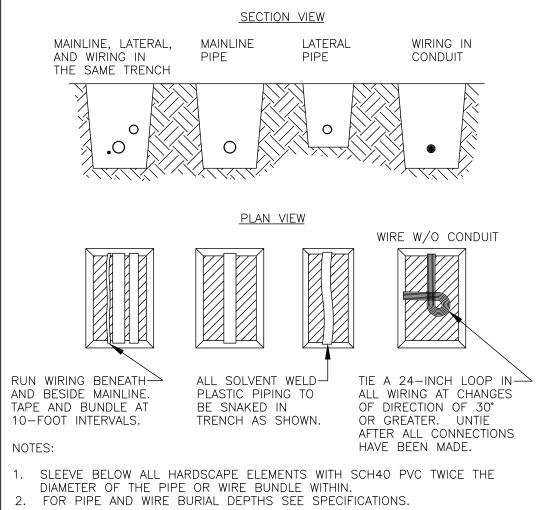


PVB BACKFLOW PREVENTER

	per Florida Building ed appendix F			
FOR NONTRAFFIC AND	NONCULTIVATED AREAS:			
Pipe Diameter	Minimum depth of Cover			
$\frac{1}{2}$ " through 1 $\frac{1}{4}$ "	6" - 12"			
1 ½" through 2"	12" - 18"			
2 ½" through 3"	18" - 24"			
6" and larger	24" – 36"			
FOR VEHICLE TRAFFIC AREAS:				
Pipe Diameter	Minimum depth of Cover			
½" through 2½"	18" – 24"			
3" through 5"	24" - 30"			
6" and larger	30" - 36"			
DEPTH OF	COVERAGE			



SLEEVING



PIPE & WIRE TRENCHING

HERMAN N FRANKLIN S

SHEET: IP-500

THE OFFICIAL RECORD OF

ELECTRONIC FILE DIGITALLY

SIGNED AND SEALED UNDER RULE 61G10-11,011, F.A.C.

THIS SHEET IS THE

PARK MPA, FL,

I **MASSEY** STREET, TAM

Landscape Irrigation - Part 1. General

1.1 DESCRIPTION OF WORK

1.1.1 Furnish all materials, equipment and labor as necessary for the installation of an irrigation system per the drawings and specifications. All work should meet City of Tampa standards for materials and

1.1.2 Related Work:

See LP-100: Landscape Planting

1.2. RELATED DOCUMENTS

1.2.1 Drawings and general provisions of Contract, including General Provisions, Supplementary General Provisions, Special Conditions, and Division - 1 Specification sections apply to work specified in this

1.3 DESCRIPTION OF WORK

1.3.1 Location of underground sprinkler system is shown on drawings if provided.

1.3.2 Design and installation of system included in this section

1.4 QUALITY ASSURANCE

1.4.1 Workmanship: All work shall be installed by licensed irrigation contractor using skilled personnel, proficient in the trades required, in a neat, orderly and responsible manner with recognized standards of workmanship. Material installations are to conform to manufacture specs. The Contractor shall have had considerable experience and demonstrated ability in the installation of sprinkler irrigation systems of this type.

1.5 SUBMITTALS

1.5.1 Product Data: Submit manufacturer's technical data for all materials and installation instructions for underground sprinkler system prior to starting work on the project site.

Part 2. Products 2.1 MATERIALS

1. Pipe Size: Increased to allow expansion or nozzle size change.

2.1.1 Backflow Preventer: PVB (pressure vacuum breaker) with ball valves sized to match the system and installed on galvanized risers.

2.1.2 Irrigation Pipe: All main and lateral lines shall be PVC pipe ASTMD1785 1120 Schedule 40. Exception would be galvanized steel pipe, when specified, and if exposed paint with 2 coats of forest green

a. No flow shall exceed 4' per second.

b. All laterals to heads will be 1" or larger on rotors and $\frac{3}{4}$ " or larger on pop-ups, bubblers and Quick Couplers

c. Nozzle and zone size will be calculated to provide maximum precipitation rate to reduce watering time based on meter size.

d. No pipe smaller than ¾".

2.1.3 Sleeving: Sleeving shall be installed for all hardscape surfaces including, but not limited to, sidewalks, courts, etc. Contractor to verify Schedule 40 or HDPE. Sleeve size shall be 2 times irrigation pipe size minimum. For all sleeves containing lateral pipe and wiring, all wire to be in its own conduit.

2.1.4 Adhesives:

2.1.4.1 All connections, 4" and less, shall be Weld-On PC-68 or PC-70 purple primer and Weld-On PVC 717 or 727 clear cement.

2.1.5 Pipe Fittings:

2.1.5.1 ASTM D 2466 socket fittings Schedule 40 shall be used for PVC pipe. Put purple primer first, cement after.

2.1.5.2 ANSI B 16.3 galvanized malleable iron screwed fittings shall be used for all galvanized pipe.

2.1.6 Manual Valves: Manufactured as follows: PVC Schedule 40 ball valves unless otherwise indicated.

2.1.7 Quick Coupling Valve: Standard is Rain Bird #3RC with minimum lateral size ¾". Athletic fields with wells are Rain Bird 44RC with minimum lateral size ½". Ensure 2" of clearance of all valve handles. (See "Quick Coupling Valve Detail" for installation.)

2.1.8 Electric Valves: Irritrol 200B series electric valve with flow control. AC or DC depending upon power source. If DC is specified, a separate common wire for each 6 zones must be installed. Master valve to be used with more than 2 zones or if main line crosses a roadway. No pressure regulator on valves. For reclaimed applications use Irritrol 100P with scrubber kit valve.

2.1.9 Automatic Valve Wiring: 14 gauge direct burial wire, color coded as follows: red for zones; blue for master valve and black for extras. Two black extra wires to be run to the furthest valve from controller in each direction. Wire splices shall be made at a common location, contained in a valve box and spliced using greased filling King wire nuts. All wire to be brought within 6' of timer location, into a junction box, and paired 18 gauge wire run into the timer box with a 3' pigtail. Provide 12 gauge white common wire for any runs over 100'.

2.1.10 Sprinkler Heads: Manufacturer's standard unit designed to provide uniform coverage over entire area of spray shown on drawings at available water pressure and installed using K-flex pipe and Schedule 40 PVC connectors as follows:

2.1.10.1 Rain Bird Bubbler: #1402 - 0.5 GPM on K-Flex pipe (2 per tree).

2.1.10.2 Rain Bird Pop-up: 1800 series SAM with nozzle to match application (No PRS).

2.1.10.3 Hunter rotor: Hunter I-20 or I-25 (athletic fields) with nozzle to match application.

2.1.10.4 Micro (Maxi-Jet): to be matched to job and used only with Parks and Recreation Department approval.

2.1.11 Valve Box: Provide plastic valve box with cover, size as needed, or as specified on drawings. Place level on brick or stone blacks. Open side of the valve box to be wrapped in ground cloth. Top of valve box installed flushed with finished grade. Any valve placed in concrete must be concrete or double wall concrete rated plastic box.

2.1.12 Computerized Irrigation Controller: Computerized irrigation controller and cabinet shall be supplied and installed by Contractor. Coordination of installation of the controller with the City of Tampa is required by the Contractor.

2.1.13 Computerized Irrigation Equipment: The following is part of the computerized system and is the responsibility of the awarded contractor.

2.1.13.1 Computerized systems shall utilize a flow meter by Master Meter Inc. matched to the water meter size, with a 1 or 10 gallon pulse depending on zone GPM.

2.1.13.2 Wiring from flow meter to controller must be 14-2 Maxi-com cable. No splices should be made in the Maxi-com cable. Maxi-com to be run under main line or in conduit.

2.1.13.3 Power source at timer should be A/C. D/C (requires special wiring) used only if all sources of A/C have been exhausted.

2.1.14 Water Source: To be coordinated with City of Tampa prior to design of irrigation system. New water meters shall be requested and paid for by the contractor. If available, reclaimed water must be used for irrigation. Any system that is to be connected to reclaimed water or is indicated to have reclaimed in the near future shall have all materials of the appropriate color to indicate the use of reclaimed water. If a well is required see City of Tampa well specs.

Part 3. Execution

3.1 SYSTEM DESIGN

3.1.1 System design shall take into account existing physical and cultural features and all proposed site improvements to avoid conflicts and ensure an efficient optimal system. **3.1.2** Design Pressures: Verify available water source and pressure prior to system design. Design system throughout to be compatible with available water source. Use reclaimed water whenever available. Athletic fields to be on a well system whenever possible.

3.1.3 Location of Heads: Design locations in accordance with accepted sprinkler practice to provide 100% head to head coverage. Make minor adjustments as necessary to avoid structures and other obstructions.

3.1.4 Minimum Water Coverage:

3.1.4.1 100% of all landscape beds and turf areas.

3.1.4.2 Layout may be modified, if necessary to obtain coverage, and to suit manufacturer's standard heads. Do not decrease number of heads indicated unless otherwise acceptable to City Representative. Any proposed decrease must be approved by the City Representative.

3.1.5 Group valves close to water source in 1 or 2 locations. Planting beds, trees and turf areas shall be on separate zones.

3.1.6 Minimize wiring runs. Maximize use of lateral lines. Keep valves 5' from closest hardscape.

3.1.7 No flow shall exceed 4 feet per second.

3.1.8 Top of pipe to grade shall be:

 Manifolds: 6' 2. Laterals: 12"

3. Mainlines: 18"

3.1.9 Design zones to have matched precipitation rates.

3.1.10 Do not use pressure-regulating sprinklers.

3.1.11 Insert sprinklers 3 inches from curbs, hardscapes and structures to allow for edging.

3.1.12 Computerized irrigation system controller will be installed by the City of Tampa. Verify controller location prior to installation of irrigation system and related electrical wiring.

3.1.13 No pipe smaller than 34"

3.1.14 Quick Coupler Valve (Rain Bird #3RC or 44RC for athletic field applications) shall be located in a valve box with the quick coupler cap within 2" of the bottom of the valve box lid. Provide 3" of galvanized main line up to and after a galvanized T. Provide 2' of vertical galvanized pipe, capped at bottom. Mount QC valve on galvanized nipple, length as required. Quick Coupler to be on a separate main line (See Quick Coupler valve detail).

3.1.15 Coordinate and confirm exact water source and electric source.

3.2 ELECTRIC and WATER SERVICE:

- 3.2.1 Water Service: The contractor shall include in the bid price all costs associated with providing water service to system as required. This includes all applications and fees required by City of Tampa Water Department to provide service, connection fees and all materials and labor for a complete functioning system. Contractor shall be responsible for applying and paying for any new water meters as required. Coordinate this requirement with the contract documents.
- **3.2.2** Electric Service: Contractor shall include in bid price all costs associated with providing power service to system as indicated in the general provisions of the contract. This includes all applications, drawings and fees required by Tampa Electric Company (TECO) and the City of Tampa. All work to comply with City of Tampa codes and TECO standards for power connection. All costs associated with power installation and connection shall be the responsibility of the contractor.
- 3.2.3 Upon final acceptance of irrigation system, ownership of water and electric meters will be transferred to the City of Tampa.

3.3 TRENCHING AND BACKFILLING:

- **3.3.1** General: Protect existing utilities, paving, plants, trees and other facilities caused by irrigation operations. Contractor shall be responsible for the repair of any damage to existing utilities and paving. Excavate straight and true with bottom uniformly sloped to low point.
- 3.3.2 Sunshine: Contactor shall be responsible for notifying underground utilities 48 hours prior to beginning work (800) 432-4770. No site work shall commence until all underground utilities have been properly located and identified.
- **3.3.3** Backfill: Backfill with clean material from excavation. Remove organic material as well as rocks and debris larger than 1" diameter. Place acceptable backfill material in 6" lifts, compacting each
- **3.3.4** Existing Lawns: Where trenching is required across existing lawns, trench no wider than necessary to accommodate pipes.
- **3.3.4.1** Backfill trench to within 6" of finished grade. Continue fill with acceptable topsoil and compact to bring area to the elevation of existing lawn.
- **3.3.4.2** If trench is more than 6" in width, relay or plant new sod within 7 days after removal, roll and water generously.
- **3.3.4.3** Restore to original condition any sod areas not in healthy condition equal to adjoining lawns 30 days after planting.
- **3.3.5** Existing Trees: All efforts shall be made to avoid trenching under the driplines of existing trees and canopy spread of proposed trees. All proposed trenching or other work under the limb spread of any and all trees shall be done by hand so that no limbs or branches or roots are damaged in any way.
- **3.3.5.1** Trenching shall comply with Chapter 13-146, Technical Manual and shall be done to minimize root disturbance. City of Tampa representative shall be present prior to beginning work, to determine limits of root pruning and shall approve any work taking place within protective radius of trees. All tree roots shall be severed cleanly per the Chapter 13 of the City Code.

3.3.5.2 Protective radius schedule per Chapter 13 of the City Code reads as follows: 1" caliper - no trenching within 4' of tree trunk

> 6" - 14"caliper - no trenching within 6' of tree trunk 15" - 34" caliper - no trenching within 15' of tree trunk

34" and greater - no trenching within 20' unless approved by City Representative

3.3.6 Pavements:

3.3.6.1 Boring is the preferred method. Open cuts must be approved by City Representative. Where existing pavements must be crossed to install landscape irrigation system, saw cut straight clean lines 6" wider than trench.

3.3.6.2 Excavate trench to required depth and width.

3.3.6.3 Remove cut out pavement and excavated material from the site.

3.3.6.4 Backfill with dry sand fill material, placing in 6" lifts to meet City of Tampa compaction requirements.

3.3.6.5 Repair or replace pavement cuts with equivalent materials and finishes.

3.3.6.6 If a concrete sidewalk is cut or damaged, the full section must be replaced.

3.3.6.7 Piping under hardscape that is 5' wider or greater shall be sleeved.

3.4.1 A pre-construction meeting will occur on site prior to commencement of work.

3.3.6.8 Contractor is responsible for daily clean up of operations to include debris, directional bore slurry and any hydraulic fluids.

3.4 INSTALLATION: (See details on construction drawings)

3.4.2 General: Contractor shall be responsible for filing and obtaining any and all agency permits as described. All work must conform to City of Tampa and the latest adopted plumbing code. Any work taking place along a city, county or state road or median must comply with appropriate regulating authority guidelines for Traffic Control for Construction and Maintenance Operations.

3.4.3 Required Inspections:

3.4.3.1 Piping: prior to covering.

3.4.3.2 All materials prior to planting and/or mulching.

3.4.3.3 24 hour notice of inspection required.

3.4.3.4 Main lines require pressure tests of 50 PSI to be maintained for minimum of 1 hour.

3.4.4 Backflow Preventer: PVB (pressure vacuum breaker) with ball valves sized to match the system and installed on galvanized risers.

3.4.5 Control Valves: Install in valve box. Arrange in box for easy adjustment and removal.

3.4.5.1 Adjust size of automatic control valves to provide flow rate of rated operating pressure required for each sprinkler zone.

3.4.5.2 All zone wiring and Maxi-com cable to be installed under the main line or in conduit. Wiring that shares a sleeve with irrigation water lines shall be contained in its own conduit.

3.4.6 Provide 18" of straight uninterrupted PVC pipe in front of the Master Meter and 12" of straight behind.

3.4.7 Piping: Lay pipe on solid sub-base uniformly sloped.

3.4.7.1 Install PVC pipe in dry weather when temperature is above 40 degrees F in strict accordance with manufacturer's instructions. Allow joints to cure at least 24 hours at temperatures above 40 degrees F (4 degrees C) before testing, unless otherwise recommended by manufacturer. All PVC connections will be cleaned with purple primer prior to cementing.

3.4.7.2 Mainline depth shall be 18".

3.4.7.3 Lateral line depth shall be 12".

3.4.8 Sprinkler Heads: Flush circuit lines with full pressure and install nozzles after hydrostatic test is completed.

3.4.8.1 Install all heads at manufacturer's recommended heights.

3.4.8.2 Locate part-circle heads to maintain a minimum distance of 3" from curbs, hardscape and structures.

3.4.8.3 After completion of grading, seeding or sodding, and rolling of the grass areas, carefully adjust lawn sprinkler heads so they will be flush with grade.

3.4.8.4 Pop-ups installed on ½" flex hose using Schedule 40 PVC connectors.

3.4.8.5 Rotors to be installed on appropriate size flex hose using Schedule 40 PVC connectors. Ensure sprayer rotor water does not directly contact existing structures or hardscape areas.

3.4.9 Dielectric Protection: Use dielectric fittings at connection where pipes of dissimilar metal are joined.

3.4.10 Wiring: All wiring shall be performed by the contractor as shown on drawings. All wiring shall be run from point of connection back to the controller.

3.4.11 Quick Coupler Valves: Build and install per details on construction drawings. Valve box shall be adequately sized and installed so as not to interfere with the operation of the quick coupler key.

3.5 ACCEPTANCE:

3.5.1 Maintenance: Contractor is responsible for all maintenance of the system until final acceptance by City Representative and for the maintenance period specified in section Trees, Plants and Ground Covers.

3.5.2 Final Inspection: The inspection of irrigated areas will be made by the City Representative upon contractor's request. Provide notification at least 2 working days prior. The City Representative will provide a punch list of those items which must be corrected before re-inspection for final acceptance. The City Representative will set an appropriate time period in which the punch list items must be corrected.

3.5.2.1 Contractor to provide notification of at least 2 working days prior to inspection.

3.5.2.2 System to be run through electronically of all zones to ensure all components are working properly.

3.5.2.3 System to be run through City programming for one week prior to final acceptance.

3.5.2.4 As Built drawings: At project closeout, the Contractor shall submit complete electronic drawings showing any changes from approved shop drawing. These shall be included as part of

required As-Built/Record Drawing requirement of the general provision. As-built drawings shall include the following: o Irrigation system as installed.

 Water source location and size. Power source location. Changes to controller type or location.

 Changes in type or location of flow meter or master valve. Any wiring changes in location, number, type, color. Valve locations should be dimensioned and areas controlled identified.

Location, depth and size of mainline and feeder lines. Off-set to main line requested.

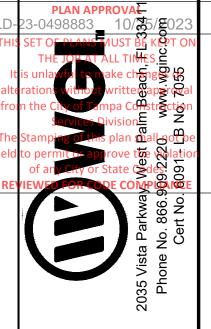
 Location of maxi-com cable. Location and depth of all directional bores.

GUARANTEE:

3.6.1 Guarantee: All work shall be guaranteed by contractor for one year from date of final acceptance against all defects and malfunctions in materials, equipment and workmanship and shall be included as a part of the project closeout document requirements.

3.6.1.1 The guarantee shall also cover repair of damage to any part of the premises resulting from leaks or other defects in materials, equipment and workmanship, to the satisfaction of the City of Tampa. Repairs, if required, shall be done promptly at no cost to the City of Tampa. The contractor shall not be responsible for damage to the irrigation system by others. The guarantee shall state the name of the owner, provide full guarantee terms, effective and termination date, name and license number. It shall be signed by the chief executive of the contracting firm and notarized. Manufacturer's warranties shall not relieve the contractor of his liability under the guarantee. Such warranties shall only supplement the guarantee.

3.6.1.2 The contractor shall make necessary repairs within 72 hours notice. If the Contractor neglects to make or undertake the repairs with the due diligence, the City of Tampa may make such repairs at the contractor's expense. In the case of an emergency where in the judgment of the City of Tampa, delay would cause loss or damage, repairs or replacement may be mad without notice being sent to the contractor and the contractor shall pay the cost thereof.



THE OFFICIAL RECORD OF THIS SHEET IS THE **ELECTRONIC FILE DIGITALLY** SIGNED AND SEALED UNDER RULE 61G10-11,011, F.A.C. LICENS

> **⋖** S ⊢ S ERMAN FRANKLIN

> > SHEET: