SECTION No.(s):
 86030000

 S.R. No.(s):
 A1A

 PERMIT No:
 2019-L-491-00016

 COUNTY:
 Broward

DISTRICT FOUR (4) AMENDMENT NUMBER TEN (10) TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION LANDSCAPE INCLUSIVE MEMORANDUM OF AGREEMENT

THIS AMENDMENT Number Ten (10) to the Agreement dated February 26, 2013 made and entered into this _____ day of _____ 20____ by and between the State of Florida Department of Transportation hereinafter called the DEPARTMENT and the **CITY OF HOLLYWOOD**, a municipal subdivision of the State of Florida, hereinafter called the AGENCY.

WITHNESSETH

WHEREAS, the parties entered into the Landscape Inclusive Maintenance of Agreement dated, February 26, 2013 for the purpose of maintaining the landscape improvements by the AGENCY on various roads including State Road A1A; and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to add additional landscape to be installed by permit within the City of Hollywood on State Road A1A in accordance with the above referenced Agreement; and,

NOW THEREFORE, for and in consideration of mutual benefits that flow each to the other, the parties covenant and agree as follows:

- The original Agreement dated February 26, 2013 the DEPARTMENT will allow an AGENCY to construct additional landscape improvements or to modify an improvement located as indicated in Exhibit "A", State Road A1A (N. Ocean Avenue) from Arizona Street (M.P. 2.664) to Sheridan Street (M.P. 4.079). In accordance with the plans attached as Exhibit "B".
- The AGENCY shall agree to maintain the additional landscape improvements in the Agreement described above according the Exhibit "C" Maintenance Plan of the original agreement and as follows:

II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS:

Fallen palm fronds shall be removed from walking surface within 24 hours

Sabal Palms, Thatch Palms, and Date Palms shall be pruned as needed to remove dead and/or damaged fronds only. Healthy green fronds are not to be removed.

Dwarf Natal Plum and Purple Trailing Lantana shall be pruned as needed to maintain uniform shape and planting bed areas. Trim plants to a 6" offset from the back of curb.

Sidewalk pavers shall be pressure cleaned at least once annually

Except as modified by this Amendment, all terms and conditions of the original Agreement and all Amendments thereto shall remain in full force and effect.

LIST OF EXHIBITS

Exhibit A - Landscape Improvements And Maintenance Boundaries Exhibit B - Landscape Improvement Plans In Witness whereof, the parties hereto have executed with this Amendment effective the _____day _____ year written and approved.

CITY OF HOLLYWOOD

By: _____Chairperson/Mayor/City Manager

Attest: _____(SEAL) Clerk

Legal Review Date

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

By: _____ Transportation Development Director

Attest: _____(SEAL) Executive Secretary

Legal Review

Date

Office of the General Counsel

SECTION No.(s): S.R. No.(s): PERMIT No: COUNTY: 86030000 A1A 2019-L-491-00016 Broward

EXHIBIT A

LANDSCAPE IMPROVEMENTS

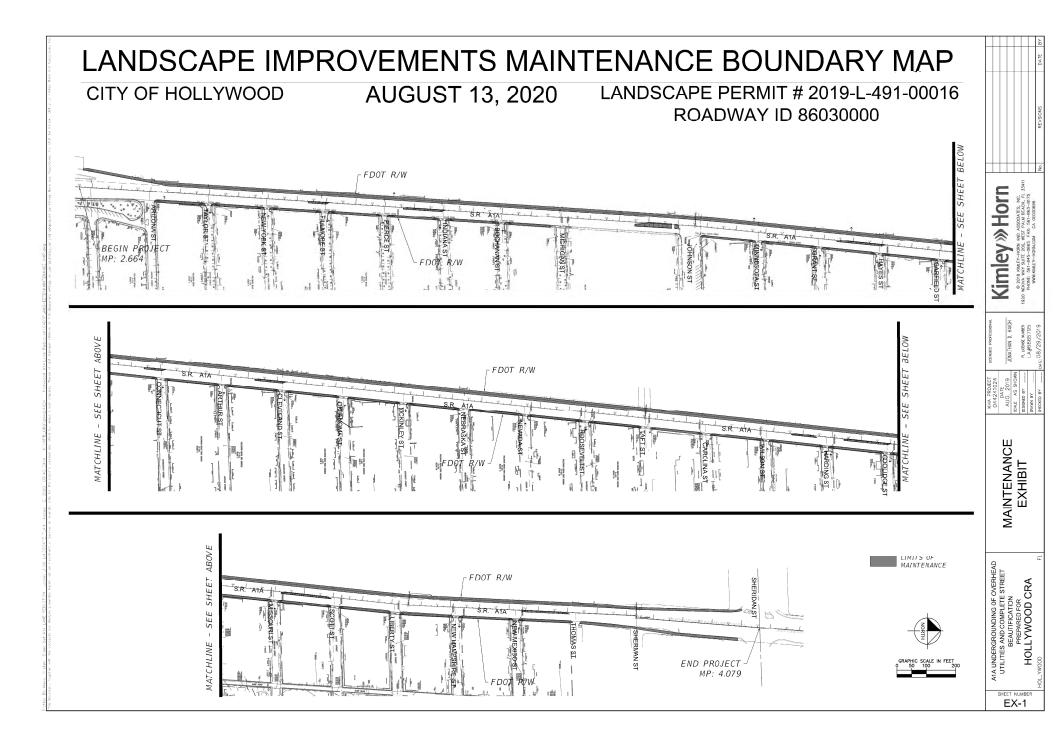
AND MAINTENANCE BOUNDARIES

- INCLUSIVE LIMITS OF MAINTENANCE ON STATE ROAD A1A: State Road A1A (N. Ocean Drive) from State Road 858 (Hallandale Beach Boulevard) (M.P. 079) to Dania Beach Boulevard (M.P. 5.380) except; (600'N. of State Road 858 (Hallandale Beach Boulevard) M.P. 0.90 to (100'N. of Diplomat Property) M.P. 1.220 which will continued to be maintained under separate agreement
- II. PERMIT LANDSCAPE MAINTENANCE LIMITS: State Road A1A (N. Ocean Drive) from Arizona Street (M.P. 2.664) to Sheridan Street (M.P. 4.079)

*All limits of the original agreement and amendments shall apply

Please See Attached

S:\Transportation Development\Design\In-House Design\Landscape Architecture\AGREEMENTS\1 MOA\HOLLYWOOD\INCLUSIVE HOLLYWOOD ALL RDS\InclAmend #10 _SRA1A_19-L-491-00016\Hollywood_SRA1A_Amend#10_19-L-491-00016(11-19-20) dr dr 12 03 mar.doc12-3-20



SECTION No.(s): S.R. No.(s): PERMIT No: COUNTY: 86030000 A1A 2019-L-491-00016 Broward

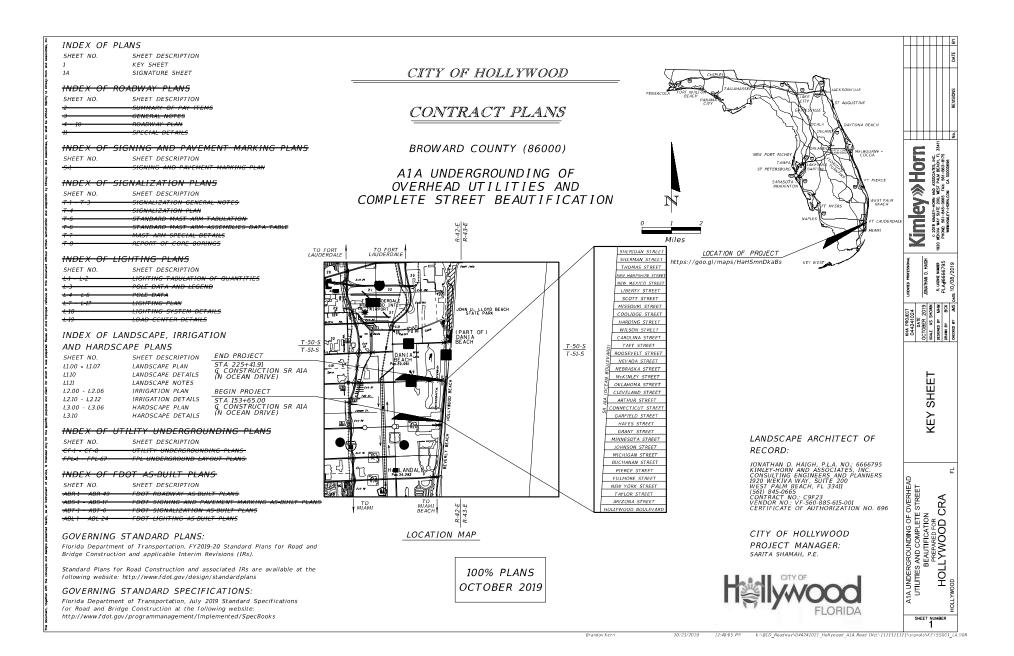
EXHIBIT B

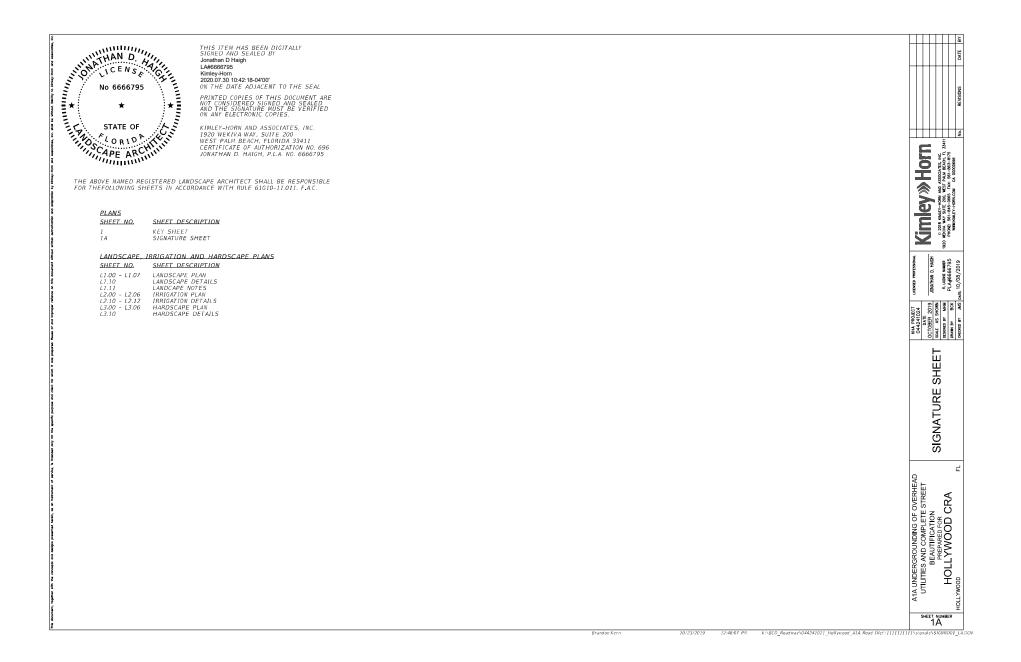
LANDSCAPE IMPROVEMENT PLANS

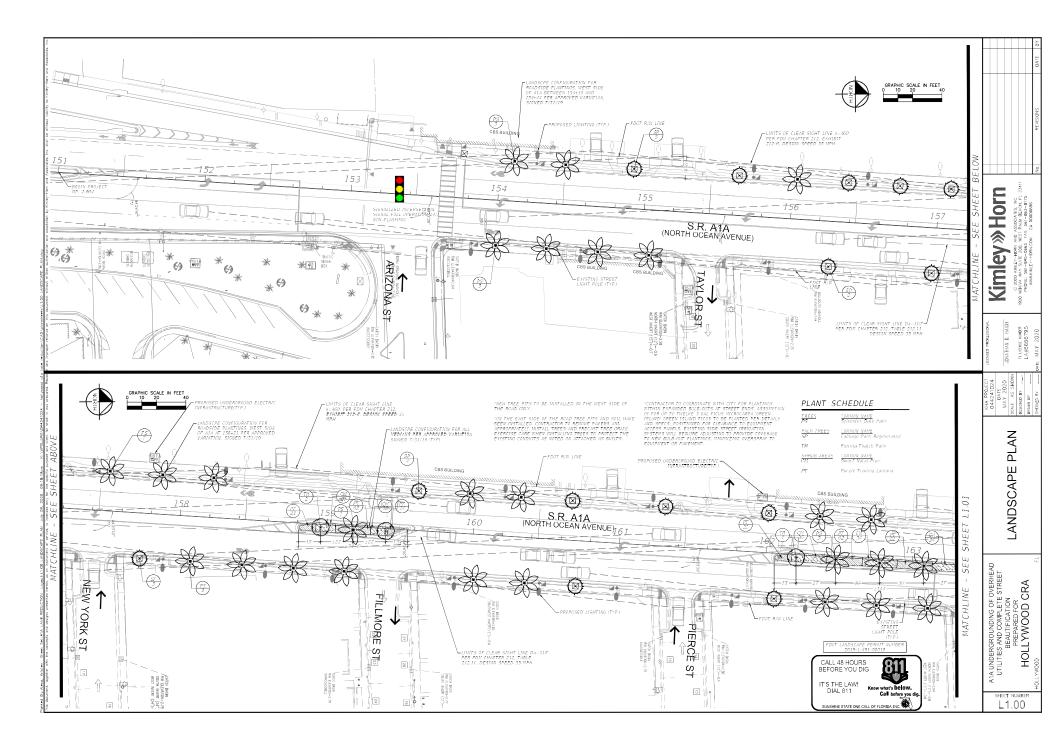
The AGENCY agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

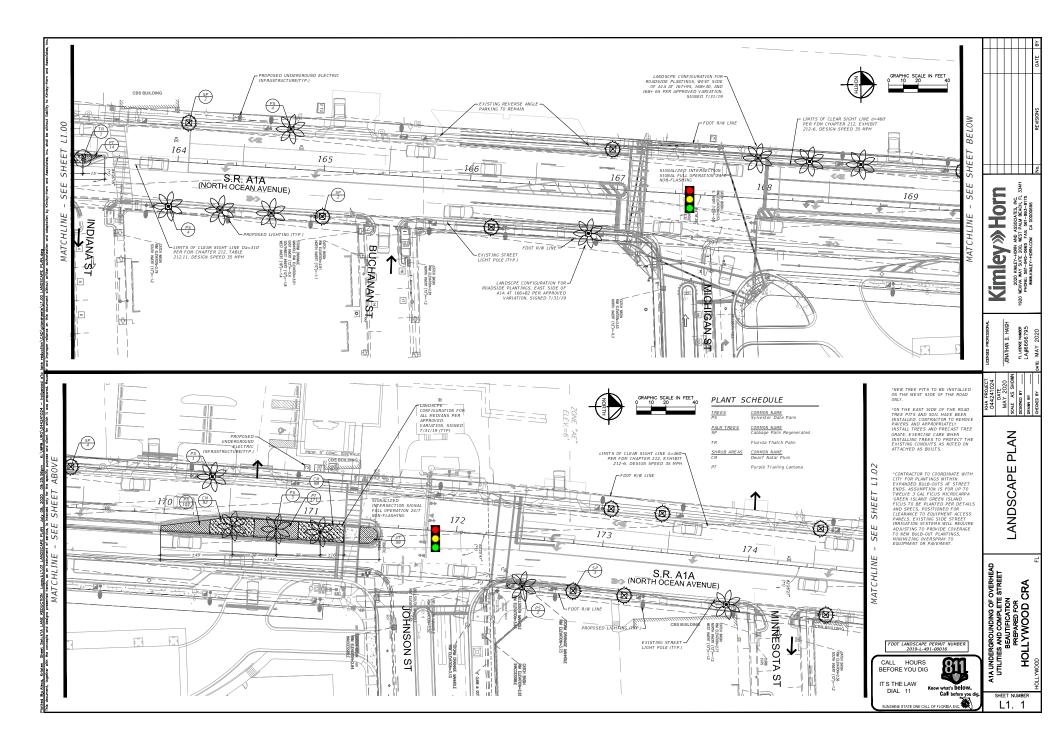
Please see attached plans prepared by:	Jonathan D. Haigh, RLA Kimley Horn		
	Dated: July 3	Dated: July 30, 2020	
	Sheets	L 1.00 – L 1.07 L 1.10 L 1.11 L 2.00 – L 2.06 L 2.10 – L 2.12 L 3.00 – L 3.06 L 3.10	

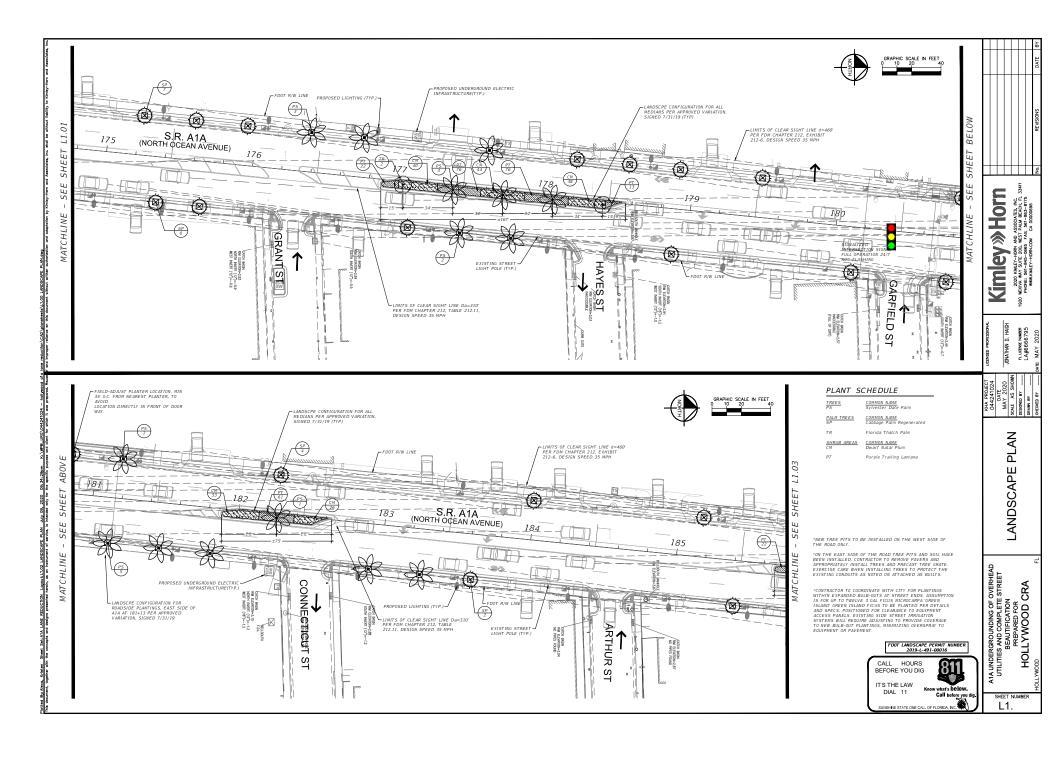
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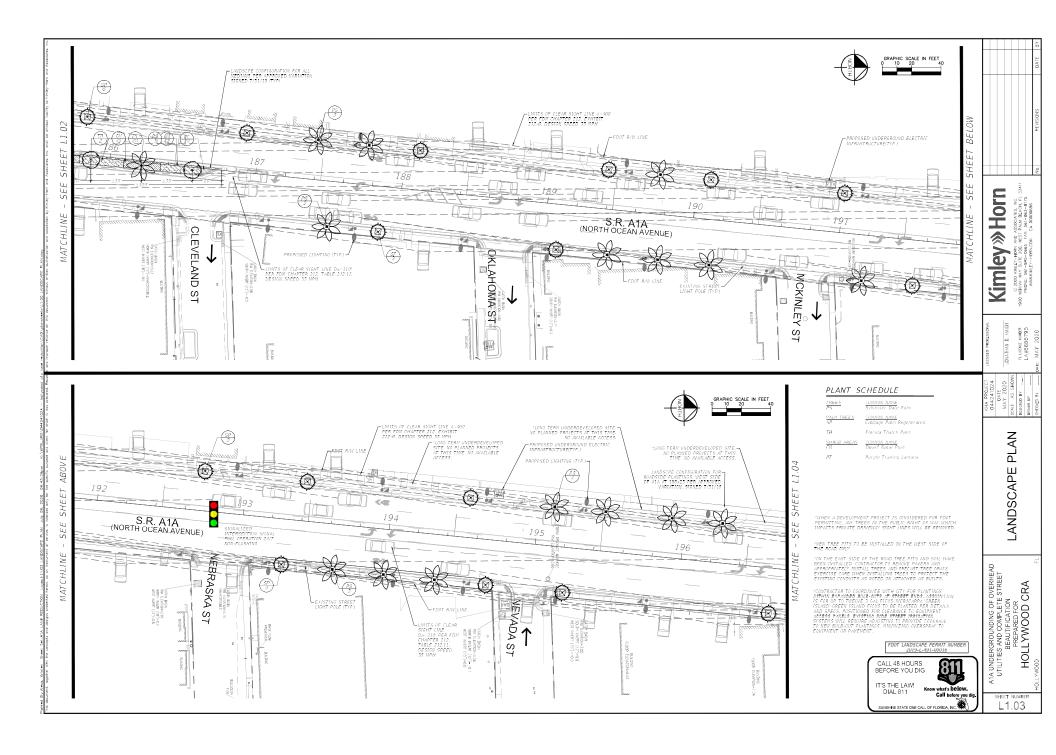


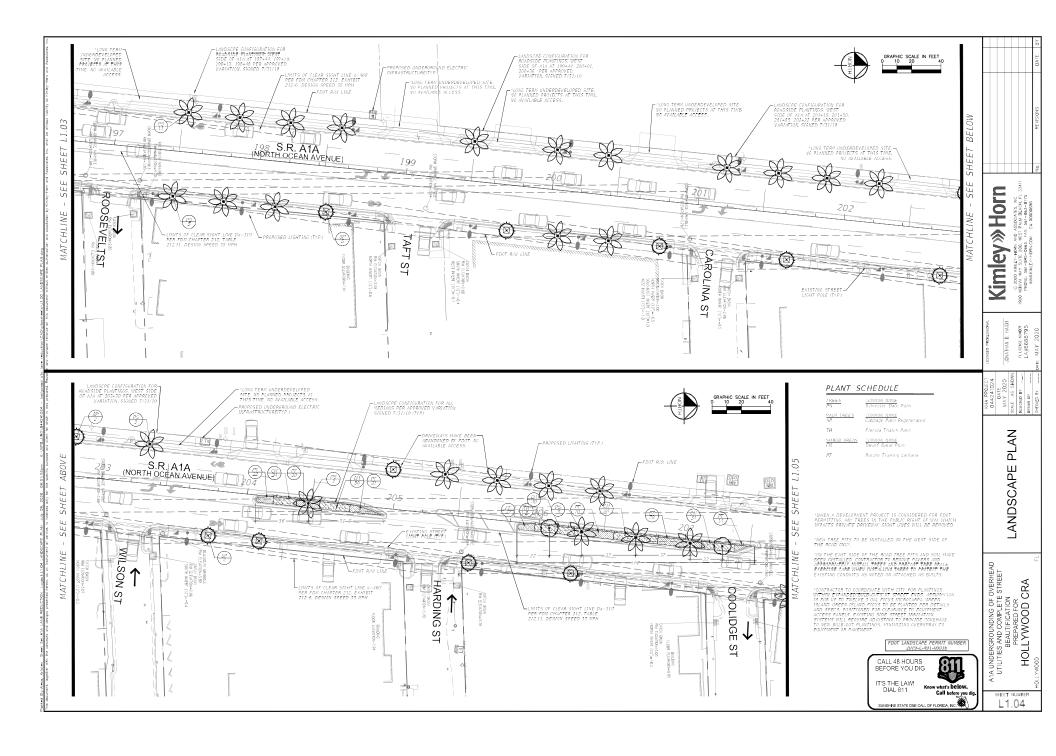


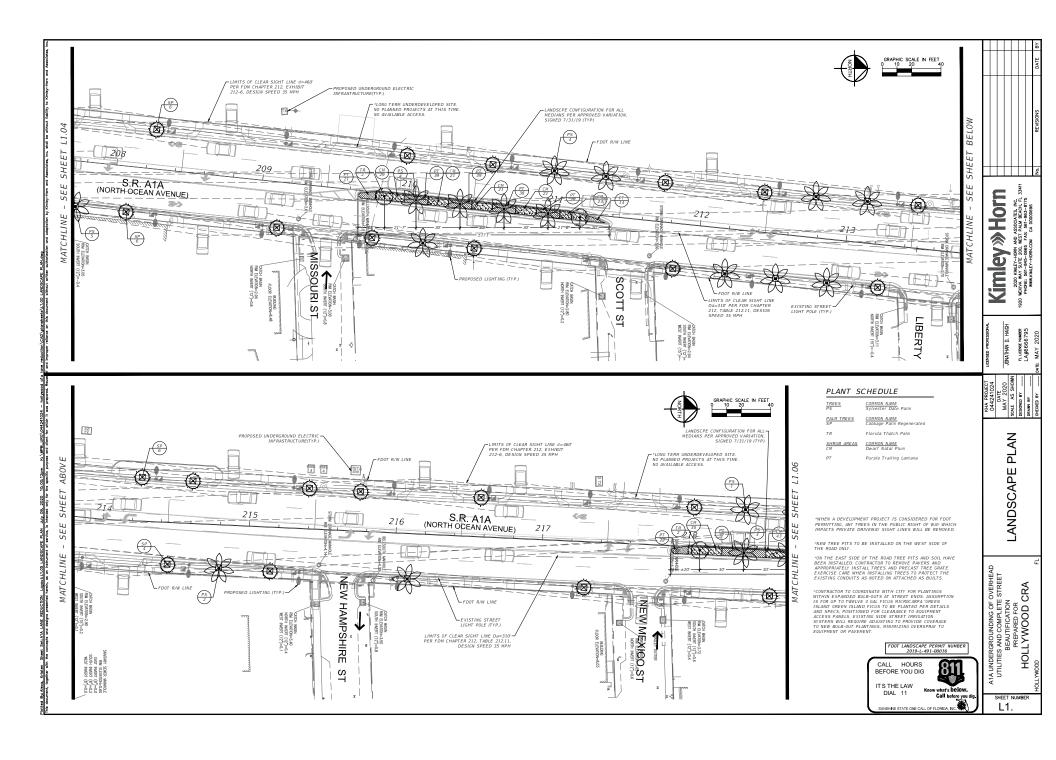


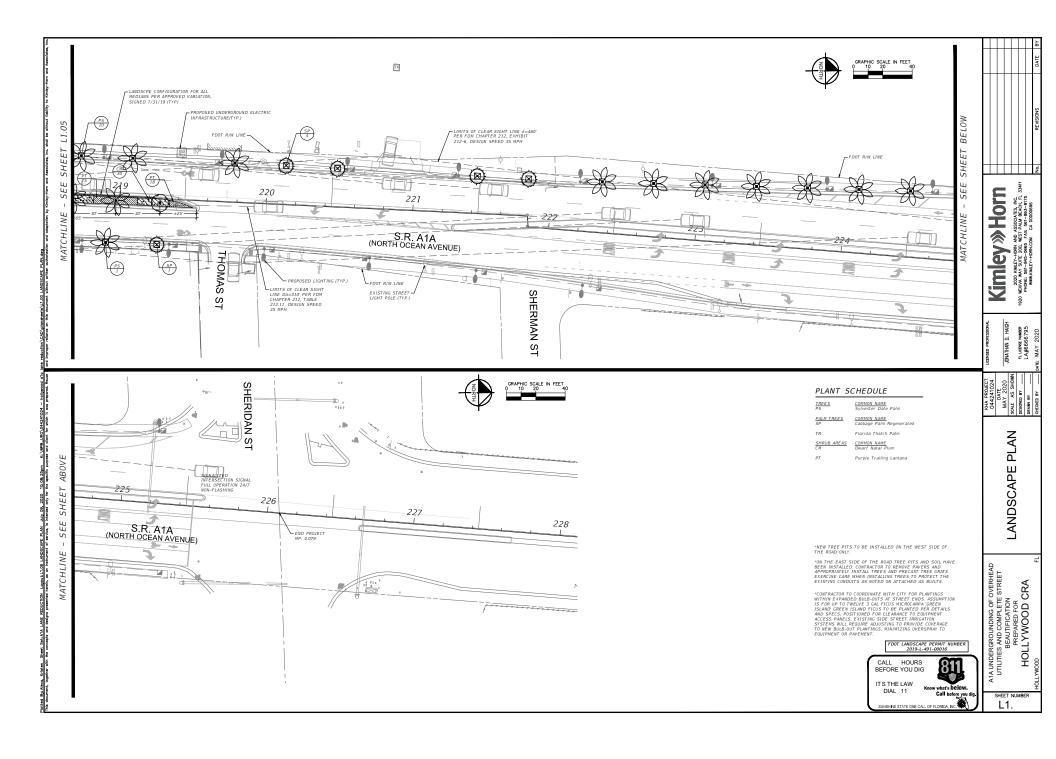


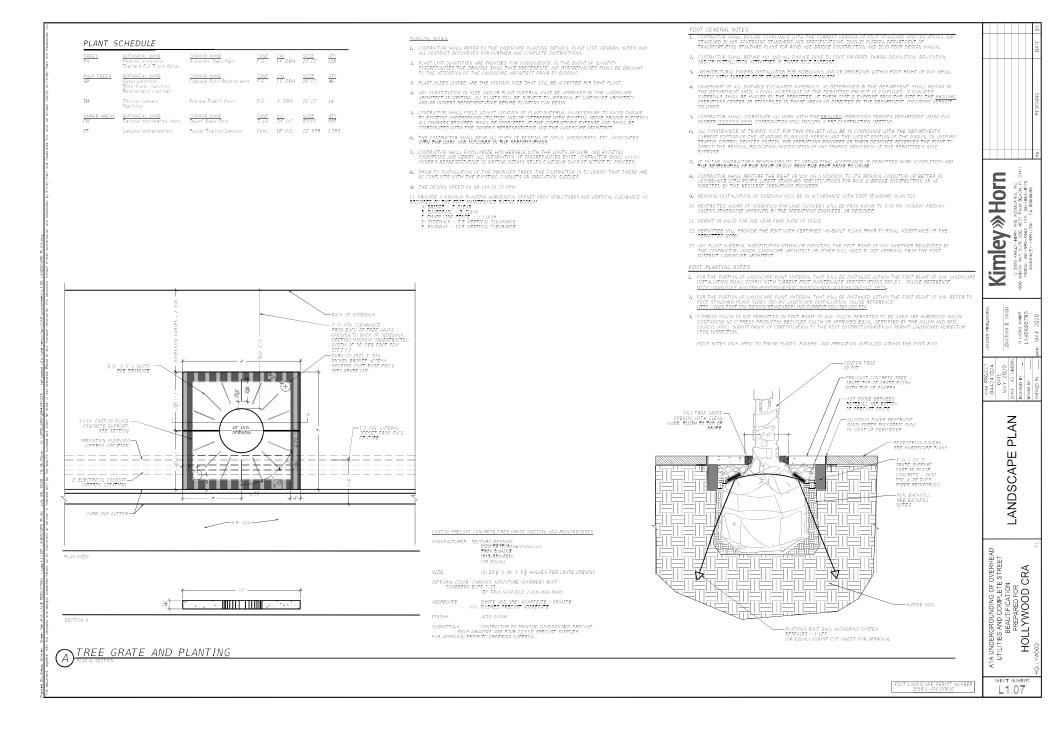


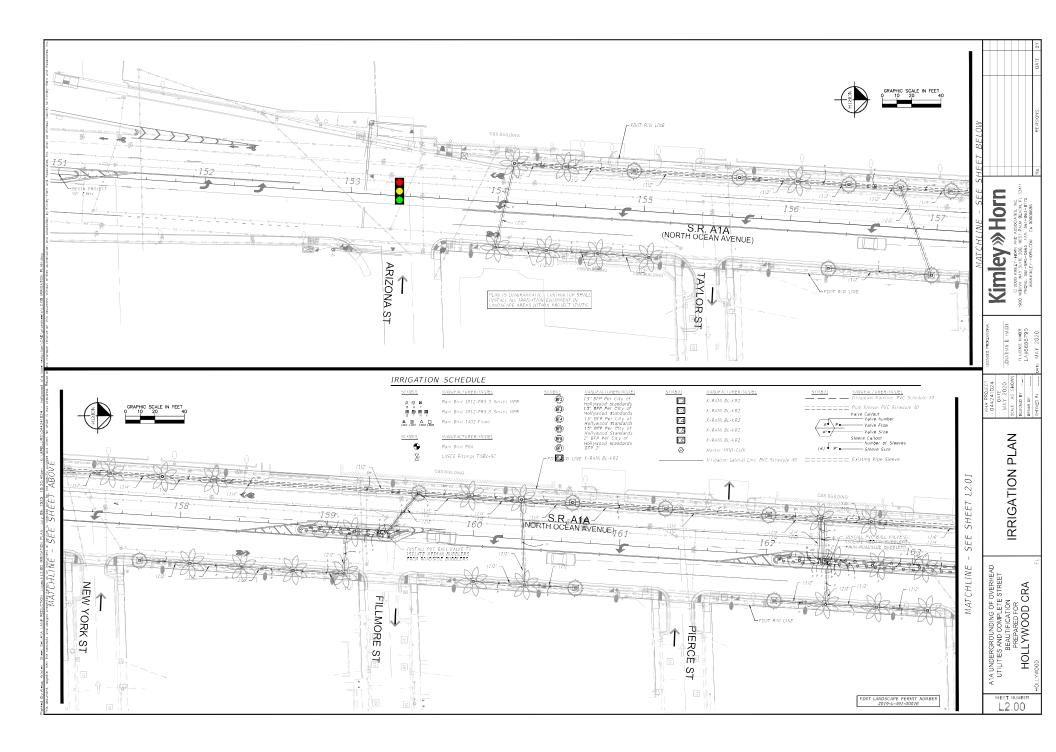


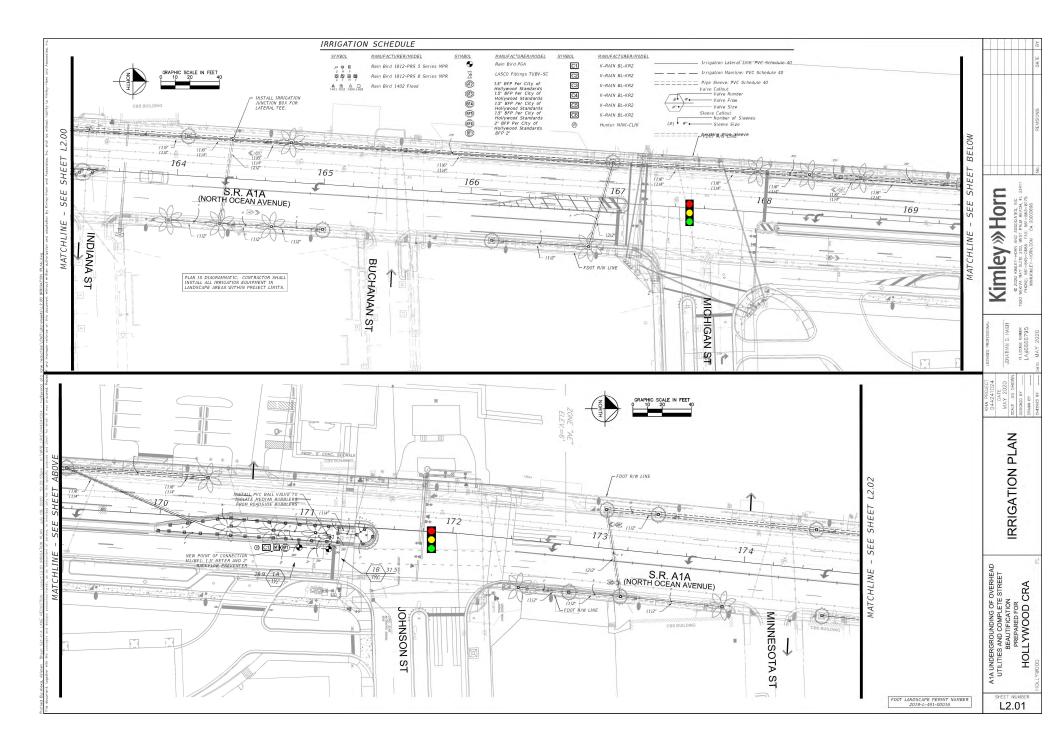


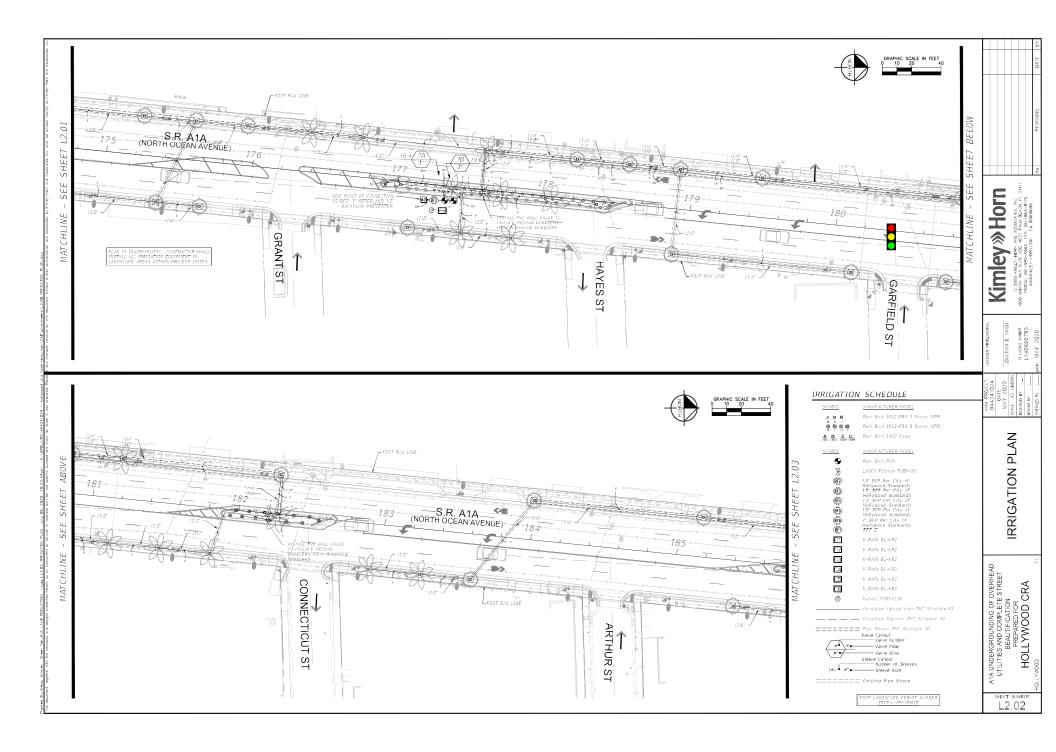


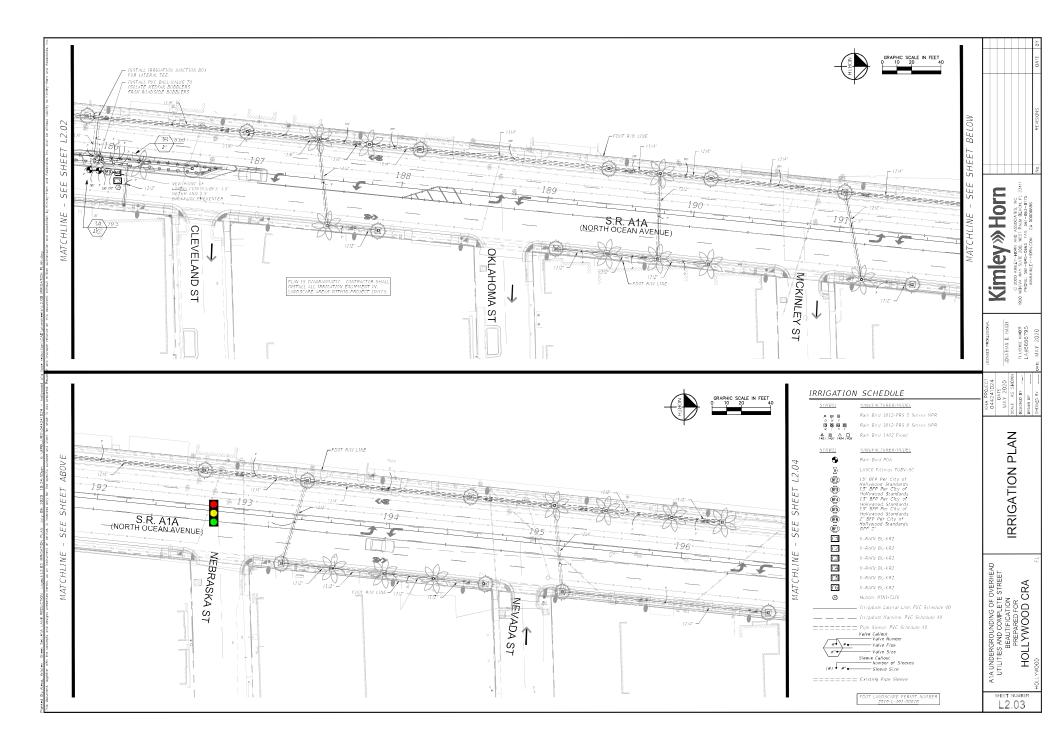


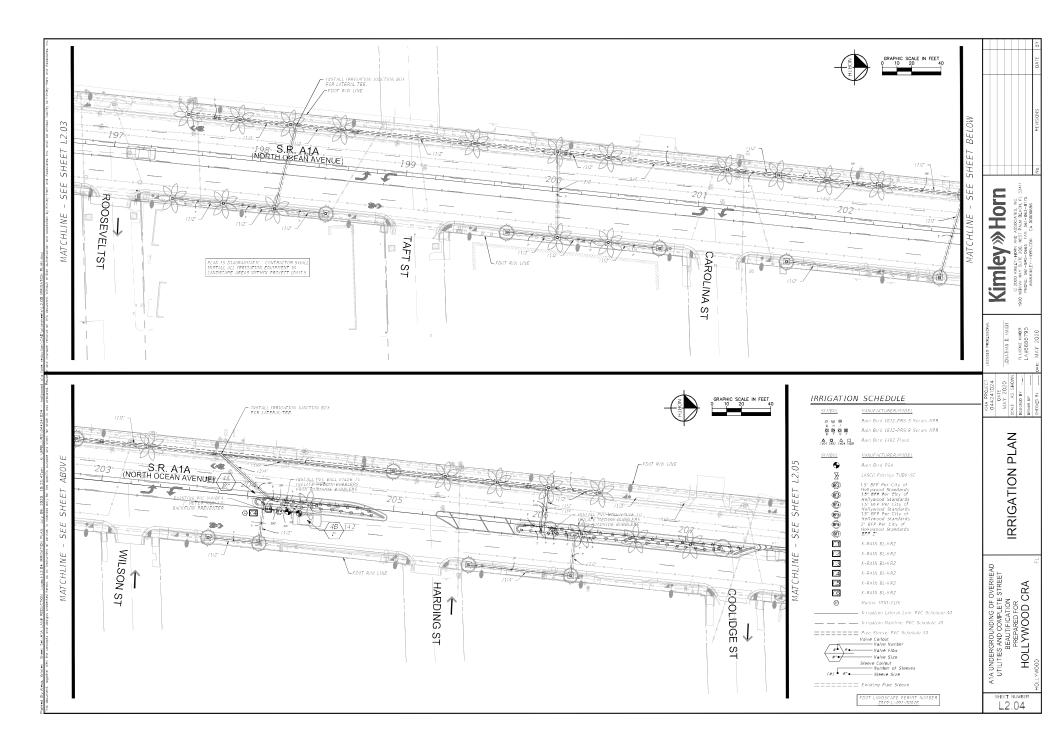


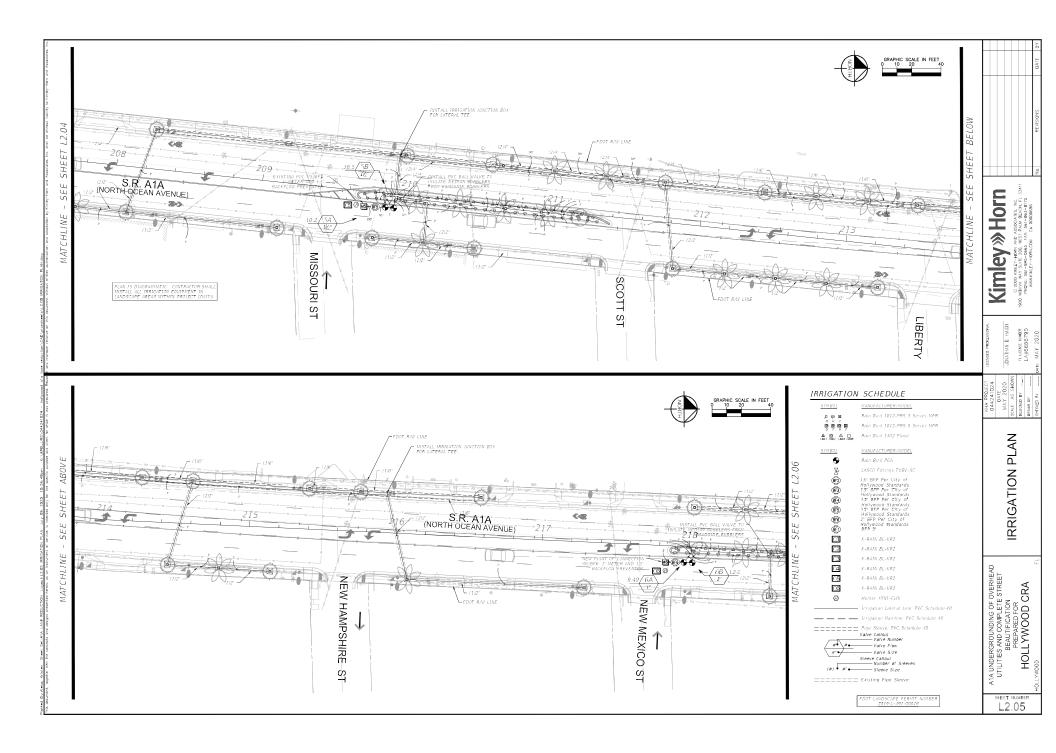


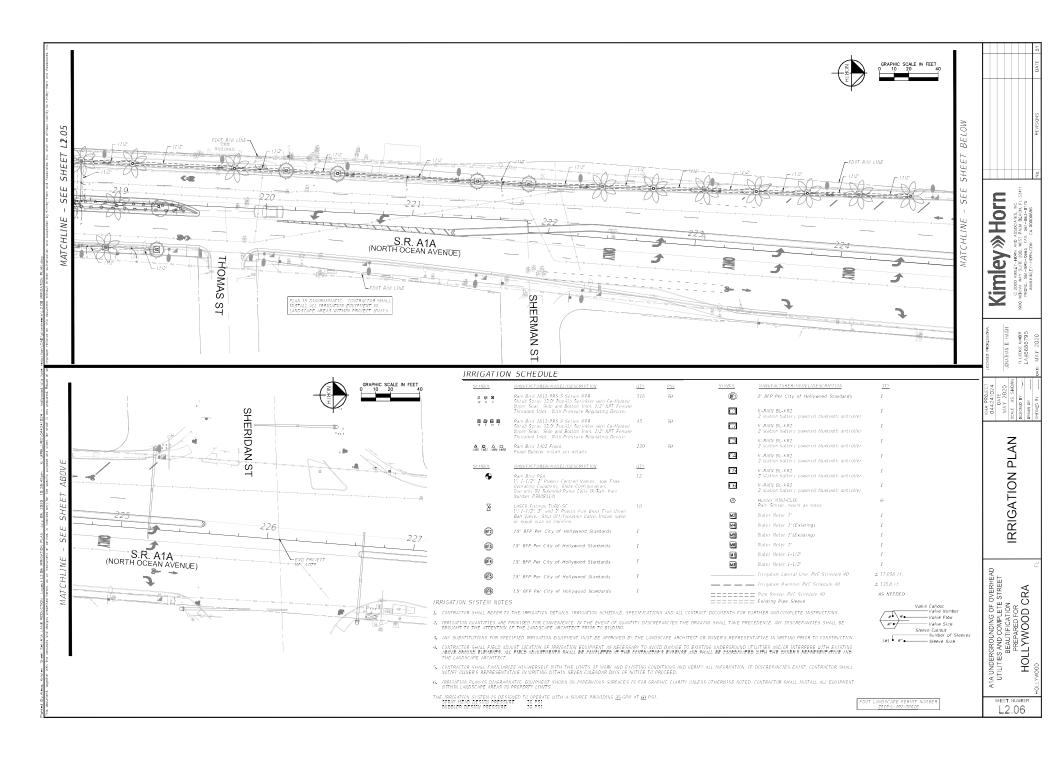


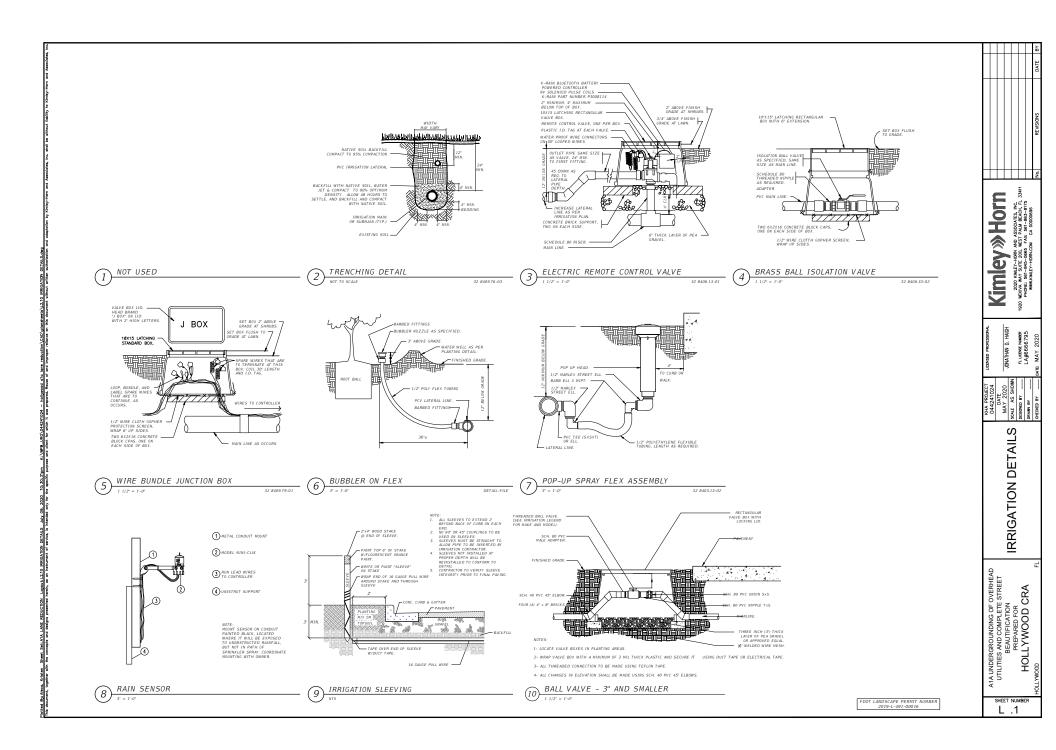












UNDERGROUND IRRIGATION SYSTEM

PART I: GENERAL 1.01 SCOPE

the specific p

- A The work covered by this specification shall include the furnishing of all labor materials tools and equipment The work covered by this specification sharin mituble the furnishing or an labor, materials, tools and exploriment necessary to perform and complete the installation of an automatic irrigation system as specified herein and as shown on the drawings and any incidental work not shown or specified which can reasonably be determined to be part of the work and necessary to provide a complete and functional system.
- B. The work covered by this specification also includes all permits, federal, state and local taxes and all other costs, both foreseeable and unforeseeable at the time of construction.
- C. No deviation from these specifications, the accompanying drawings, or agreement is authorized or shall be made without prior written authorization signed by the Owner or his duly appointed representative.

1.020UALITY ASSURANCE

- A. Installer Qualifications: A firm specializing in irrigation work with not less than five (5) years of experience in installing irrigation systems similar to those required for this project.
- dination: Coordinate and cooperate with other contractors to enable the work to proceed as rapidly and B. Coo
- C. Inspection of Site: The Contractor shall acquaint himself with all site conditions, including underground utilities before construction is to begin. Contractor shall coordinate placement of underground materials with contractors previously working underground in the vicinity or these scheduled to underground work in the vicinity. Contractor is responsible for minor adjustments in the layout of the work to accommodate existing facilities.
- D. Protection of Existing Plants and Site Conditions: The Contractor shall take necessary precautions to protect site romitions to remain. Should damages be incurred, this Contractor shall regar the damage to its original conditions to new represe. Any discussion description of the damage to its original condition at his own expense. Any discussion, descritation, or discussione of any existing plant, trees, shrub, or solely at the Constactor's expense.
- E. Protection of Work and Property: The Contractor shall be liable for and shall take the following actions as required with regard to damage to any of the Owner's property.

1. Any existing building, equipment, piping, pipe coverings, electrical systems, sewars, sidewalks, roads, grounds, landschaft, and sewars, sewars, sidewalks, roads, grounds, landschaft, and sewars, sewars, sidewalks, roads, grounds, landschaft, and sewars, sewars, sidewalks, roads, grounds, landschaft, and landscha

2. Contractors shall also be responsible for damage to any work covered by these specifications before fluad acceptance of the work. He shall securely cover all appariatus, equipment and applicances, both before and after being set in place to prevent obstructions on the pipes and the breakage, musics edisfigurement of the applicatus, equipment, musics edisfigurement of the applicatus, equipment and applications on the pipes and the breakage.

All trenching or other work under the leaf canopy of any and all trees shall be done by hand or by other methods so that no branches are damaged in any way.

Buildings, walks, walks, and other property shall be protected from damage. Open ditches left expose be flagged and barricaded by the Contractor by approved means. The Contractor shall restore distur-areas to their original condition.

4. The Contractor shall be responsible for requesting the proper utility company to stake the exact location of any underground lines including but not limited to electric, gas, telephone service, water, and cable.

The Contractor shall take whatever precautions are necessary to protect these underground lines fu damage. In the event damage does occur, all damage shall be completely repaired to its original co no additional cost to the Owner.

- 5. The Contractor shall request the Owner, in writing, to locate any private utilities (i.e., electrical service to outside lighting) before proceeding with any excavation. If, after such requests and necessary staking, private utilities witch were not staked are encountered and damaged by the Contractor. They shall be repaired by the Owner at no cost to the Contractor. If the Contractor damages staked or located utilities, they shall be repaired at the Contractor's expense.
- F. Codes and Inspections: The entire installation shall comply fully with all local and state laws and ordinances and with all established codes arrange for all necessary inspections and shall pay all fees and expenses in connection with same, as part of the work under this Contract. Upon completion of the work, he shall furnish to the "Owner" all inspection certificates customarily issued in connection with the class of work involved.
- G. The Contractor shall keep on his work, during its progress, a competent superintendent and any necessary assistants, all satisfactory to the Owner, or Owner's representative.
- H. The superintendent shall represent the Contractor in his absence and all directions given to him shall be as binding as if given to the Contractor.
- The Owner's Landscape Architect or designated individual shall have full authority to approve or reject work
 performed by the Contractor. The Owner's Authorized Representative shall also have full authority to make field changes that are deemed necessary.
- J. Final Acceptance: Final acceptance of the work may be obtained from the Owner upon the satisfactory cor of all work. Acceptance by the Landscape Architect and/or Owner in no way removes the Contractor of responsibility to make further repairs, corrections and adjustments to eliminate any deficiencies which later be discovered
- K. Guarantee: All work shall be guaranteed for one year from date of final acceptance against all defects material, equipment and workmanship to the satisfaction of the Owner. Repairs, if required, shall be promptly at no cost to the Owner.

1. The guarantee shall also cover repair of damage to any part of the premises resulting from leaks or 1. The guarantee shall also cover repair of damage to any part of the premises resulting from leaks or workmanship, to the satisfaction of the Owner. The contractor shall not be responsible for work damaged by others. Repairs, if required, shall be done promptly. The guarantee shall state the name of the Owner, provide full guarantee streme, dretcher and termination date, name and iteness multies of under streme stremes and the streme stremes streme stremes stremestremes stremes stremes stremes stremes stre

2. If, within ten (10) days after mailing of written notice by the Owner to the Contractor requesting repairs of ..., where the set of the set of

- L. The Contractor shall provide full, 100% irrigation coverage in all areas designed with proposed plantings, in accordance with the site's governing permitting requirements and as designed.
- R. On-site Deservation: At any time during the installation of the irrigation system by the Contractor: the Owner or Landscape Architect may visit the site to above work underway. Upon regulate, the Contractor shall be required to uncover specified works as directed by the Owner or material, workmanship or method of installation not meet the standards specified herein, the Contractor shall regulate the work at his own
- R. Workmanchip. All work shall be installed by qualified, stilled personnel, proficient in the trade required, in a need, orierly, and responsible manner with recognized standards of workmanship. The Contractor shall have had considerable experience and demonstrated ability in the installation of sprinkler irrigation systems of this type.

1.04 SUBMITTALS

All materials shall be those specified and/or approved by the Landscape Architect.

- A. Product Data: After the award of the Contract and prior to beginning work, the Contractor shall submit for approval by the Owner and Landscape Architect, two copies of the complete list of materials, manufacturer's technical data. and installation installation installation.
- B. Commence no work before approval of material list and descriptive material by the Landscape Architect.
- C. Record Drawings: The Contractor shall record on reproducibles, all changes that may be made during actual installation of the system. Provide controller sequencing and control valve locations.
- Immediately upon installation of any piping, valves, wiring, sprinklers, etc., in locations other than shown on the original drawings or of sizes other than indicated, the Contractor shall clearly indicate such changes on a set of blueline prints. Records shall be made on a daily basis. All records shall be neat and subject to the approval of the Domer.
- 2 The Contractor shall also indicate on the record prints the location of all wire splices original or due to prepair, that are installed underground in a location other than the controller pedestal, remote control valve box, power source or connection to a valve-in-head sprinkler.
- 3. These drawings shall also serve as work progress sheets. The Contractor shall make neat and legible notations thereon daily as the work proceeds, showing the work as actually installed. These drawings si be available at all times for review and shall be kept in a location designated by the Owner's Representa
- Progress payment request and record drawing information must be approved by Landscape Architect before payment is made.
- If in the opinion of the Owner or his representative, the record drawing information is not being pro promptly recorded, construction payment may be stopped until the proper information has been record submitted.
- 6. Before the date of the final site observation and approval, the Contractor shall deliver one set (copies) of reproducible record drawing plans and notes to the Landscape Architect. Record drawing information sh approved by the Landscape Architect prior to submittal to Owner for final payments, including retentions
- D. Operations and Maintenance Manuals: The Contractor shall prepare and deliver to the Owner, or his desir representative within ten (10) calendar days prior to completion of construction, a hard cover binder with three rings containing the following information
- Index sheet stating the Contractor's address and business telephone number, list of equipment with nam and address(es) of local manufacturer's representative(s).
- 2. Catalog and parts sheets on every material and equipment installed under this Contract.
- Complete operating and maintenance instruction on all major equipment. Include initial controller schedule and recommended schedule after establishment period.
- 4. Demonstrate to and provide the Owner's maintenance personnel with instructions for major equipment and show evidence in writing to the Owner, or his designated representative at the conclusion of the project that this service has been rendered.

1.05 EXPLANATION OF DRAWINGS

- A. Due to the scale of the drawings, it is not possible to indicate all offsets, fittings and sleeves which may required. The Contractor shall carefully investigate the structural and finished conditions affecting a the work and plan his work accordingly, furnishing such offsets, fittings and sleeves as may be required. meet such condition:
- B. The drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation systems, planting and architectural features. Deviations shall be brought to the Landscape Architects attention.
- C. All work called for a on the drawings by notes or details shall be furnished and installed whether or not specifically mentioned in the specifications.
- D. The Contractor shall not willfully install the irripation system as shown on the dramings when it is abvicus in the lifet that adstructions, grade differences or discrepancies in area dimensions exist that might on these been known in engineering. Such obstructions or differences should be brought to the attention of the Landscape Architect. In the event that notification is not performed, the Contractor shall assume full responsibility for any revision necessary.
- E. If, in the opinion of the landscape Architect, the labor furnished by the Contractor is incompetent, unskilled, or unreliable, his equipment landequate, improver or unsafe, or it the Contractor shall full to continuously and diligently execute the construction, the Landscape Architect or Owner shall, in writing, instruct the Contractor to remove all such cuses of noncomplance and the Contractor shall primotly comply.
- F. The Contractor shall be responsible for full and compete coverage of all irripation areas. The Landscape Architest shall be notified of any necessary adjustments at not additional cost to hower. Any revisions to the irrigation system must be submitted and answered in written form, along with any change in contrast price. Layout may be modified, if necessary to obtain coverage. Spacing not be exceed 60% of the diameter.

PART II: PRODUCTS

2.01 MATERIALS

Material and equipment shall be supplied by the Contractor. No substitutions shall be allowed without the prior Material and equipment sharin be suppried by the contractor. Two Subscriptions share be allowed without the proof written approval of the Owner/Landscape Architect. The Contractor Shall inspect all materials and equipment. These items used in installation, and defective materials shall be replaced with the proper materials and equipment. These items used in the installation durit to be defective, improperly installed or not as specified, shall be removed and the proper materials and equipment installed in the proper maner, as interpreted by the Owner/Landscape Architect. The Contractor shall remove all damaged and defective ple and equipment from the site.

2.02 PIPING

- A. General Provisions: All materials throughout the system shall be new and in perfect condition unless otherwise directed by the Landscape Architect.
- B. Polyvinyl Chloride Pipe (PVC): (Where indicated on plan, use non-potable purple piping.) 1. Main Line and Lateral Lines Under Pressure: PVC shall conform to the requirements of ASTM Designation D
- 2241, Class 1120 or 1220, Schedule 40 with belled end for solvent weld connectio 224, Uses rules version services 2. Pipe Markings: All PVC pipe shall bear the following markings: o Manual Appendix State o Schedule or Class o PisFs ver Barling or State o PisFs ver Barling or State o Date of Extrusion

2.04 PVC JOINTS

Joints in PVC pipe smaller than 3" shall be solvent welded in accordance with the recommendations of the pipe manufacturer; the solvent cleaner and welding compound furnished with the pipe.

2.05 THREADED CONNECTIONS

A. Threaded PVC connections shall be made up using Teflon tape only. B. Connection between mainline pipe fittings and automatic or manual control valves shall be made using Schedule 80 threaded fittings and nipples.

- 2.06 SOLVENT CEMENT
- A. General: Provide solvent cement and primer for PVC solvent weld pipe and fittings recommended by the manufacturer. Pipe joints for solvent weld pipe to be belled end. Pipe joints for gasketted pipe to be intricial ring type. Insert gaskets will not be accepted.

2.07 PIPE AND WIRE SLEEVES

A. Sleeves to be installed:

- 1. The Contractor shall install irrigation system pipe and wire sleeves conforming to the following:
 - a. All pipe sleeves shall extend a minimum of 24" beyond the edges of pave
 - b. All pipe sleeves to be installed beneath future/existing road surfaces shall be PVC pipe Schedule 40 or jack and bore steel pipe as per FDOT specifications, and as shown on plans. c. All irrigation system wires shall be sleeved seperately from main or lateral lines.

 - d. All pipe sleeves shall be installed at the minimum depth specified for main lines, lateral lines, and electric wire
 - e. Contractor shall coordinate all pipe sleeve locations and depths prior to initiating installation of the irrigation system.

2.08 SPRINKLER HEADS

A. Spray Sprinkers: The sprinker shall be a fired spray type designed for in-ground installation. The nozzee shall elevate (for as designated on plan) when incorration. The body of the sprinker shall be constructed of non-corrosive heavy duty Cycolac. A filter screen shall be in the nozzle piston. All sprinkler parts shall be reenvable through the top of the unit by removal of a threaded cap.

Riser mounted spray shall be as indicated on the plans. The sprinkler shall consist of a nozzle and body Hister induncted spiral sinance de al inducated of integrania. The spininker sinance consist or a inducate and outry. The body of the rister-mount spirinkler shall be constructed of non-crossive materials. A cone strainer sha be a separate part with the nozzle assembly to allow for easy flushing of the sprinkler. Maximum working pressure at the base of the spirinkler shall be 40 PSI.

FDOT LANDSCAPE PERMIT NUMBER 2019-L-491-00016

120 SHOWN DATE MAY 20 SCALE AS DESIGNED BY DRAWN BY S ₹ DET **RIGATION** ۲ OVERHEAD STREET CRA OF ETE O WOOD UNDING (GROU LL^R Ę 1A UNI UTILI SHEET NUMBER L .11

33411 ASSOCIATES, INC. PALM BEACH, FL 2 c 561-863-8175 CA DOMMARK F $\overline{\otimes}$ MEST FAX eV S 108N 2000 2020 KIMLEY-HO WEKIVA WAY SUITE 2 PHONE: 561-845-0 WWW.KIMLEY-HOR Kimį 920 HAIGH FL LICENSE NUMBER JONATHAN D. F

2.09 AUTOMATIC CONTROL VALVE

The automatic remote control valves shall be as specified on the plans, or approved equal.

2.10 ISOLATION VALVES

- A. Install isolation valves per plans and details.
- 2.11 VALVE BOXES ** ALL BOXES MUST FEATURE A LATCHING MECHANISM **
- A. For isolation valves, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.
- B. For control valves 3/4" through 2", the drip valve assemblies, use AMETEK #10-181-014 box with #10-181-015 locking lid, or sized as necessary to effectively house the equipment
- C. For control wiring splices, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings

2.12 IRRIGATION WIRING

- A Winng used for connecting the electric control valves to the controllers shall be Type UF, 600 volt, single strand, oddi coger with PV classification 4/46⁴ thick. Wire shall be sized by the irrigation contractor base on the leight of wire run required, minimum size shall be 14 gauge. Red for "hot" or lead wires, and common wire to be white in color.
- B. Contractor shall perform an ohm test on ground to assure adequate protection against surges and indirect 2.13 MISCELLANEOUS MATERIALS

A. Drainage Backfill: Cleaned gravel or crushed stone, graded from 1" maximum to 3/4" minimum.

B. Metailzed Underground Tape: The detectable, underground utility marking tape shall consist of a minimum: 5 mil (0.0057) over all thickness; Tive-pir composition; utfra-high molecular weight, 100% virgin polychylene, zidi, color-ode imregended with color stable inderfree, organic pignets suitable for direct burint. Tapes utilizing reprocessed plastics or resins shall not be acceptable. The detectable, underground utility marking tape shall have a 33 gauge (0.0037) solid autominum (10.0057) signet coaling. The familiate on a stable (0.0037) solid autominum (3), core coaling. The familiate on each side shall consist of a 0.5 mil (0.0057) signet to this 245 mil (0.0057) signet on the UPD, poly-tilling the "samilytic" without set of adhetives.

2.14 AUTOMATIC CONTROL SYSTEM

A. Install Battery Powered Bluetooth Controllers as specified on plans. Coordinate with City Staff to program each

PART III: EXECUTION

3.01 INSPECTION

The Contractor shall examine the areas and conditions under which landscape irrigation system is to be installed and northy the Landscape Architect in writing of conditions detriment() to the proper and timely completion of the work. The Contractor shall proceed with the work until unsatisfactory conditions have been corrected in a maner acceptable to the Landscape Architect.

3.02 PREPARATION

The contractor shall provide slowers to accommodate piping under walks or paring. The Contractor shall coordinate with their trades and install to accurate levels prior to paring work. Cutting and patching of paring and concrete will not be permitted. The Contractor shall maintain all waring signs, shoring, barricades, flares and red latters, as required by any local codes, originances or permits.

3.03 TRENCHING AND BACKETLLING

A Excavation: The Contractor shall stake out the location of each run of pipe, sprinkler heads, sprinkler valves and isolation valves prior to trenching. Excavation shall be open vertical construction sufficiently wide to present the run of the state of the present for pipe shall be cut to required prade lines, and compared to provide accurate grade and uniform bearing for the full length of the line. The bottom of the trenches shall be free of rock or other sharp edged objects. Minimum core shall be as follows:

Pipe and Wire Depth

Pressure Mainline Lateral Piping (rotor) Lateral Piping (pop-up) L2* at top of pipe from Finish Grade Control Wiring Side of main Line Side of main Line

B. Minimum Clearances: All pipelines shall have a minimum clearance of six inches from each other and from lines of other crafts. Parallel lines shall not be installed directly over one another. No lateral line shall be installed in the main-line trench.

3.04 INSTALLATION OF PIPING

- A. PVC Pipe and Joints: The Contractor shall not install solvent wild pipe when air temperature is below 40p F. Installation shall be in accordance with the manufacturer's instructions.
- 1. Only the solvent recommended by the pipe manufacturer shall be used. All PVC pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer, and it shall be the Contractor's full responsibility to make arrangements with the pipe manufacturer for any field assistance that may be necessary. The Contractor shall assume full responsibility for the correct installation.

3.05 BACKELLING PROCEDURES

2.12 n

Initial backfill on PVC lines shall be pulverized native soil, free of foreign matter. Within radius of 4° of the pipe shall be clean soil or sand. Plant locations shall take precedence over sprinkler and pipe locations. The Contractor shall coordinate the location of trees and shrubs with the routing of lines and final head locations.

- A. Backfill and Compaction: The Contractor shall leave treaches sliphly mounded to allow for settlement after the backfilling is completed. The Contractor shall leave in a neat condition. No trenches shall be left open for a period of more than 48 hours. Prefetc open trenches as required.
 - The Contractor shall carefully backfill excavated materials approved for backfilling, consisting of earth, loam sand, and other approved materials, free of rock and debris over 1" in size. Backfill shall be compacted to original density of surrounding soli without dips, sunken areas, or irregularities.
 - The Contractor shall conform to DOT requirements for methods and required compaction percentages, for
 - The Contractor shall hand place the first 6" of backfill (or to top of pipe) and have it walked on so as to secure the position of the pipe and wire.
- No wheel rolling will be allowed. The Contractor shall remove rock or debris extracted from backfill materials and dispose of offsite. The Contractor shall fill any voids left in backfill with approved backfill materials.
- Existing Lawns: Where trenching is required across existing lawns, uniformly cut string of sod 6" wider than В. trench. The Contractor shall remove soci in rolls of suitable size for handling and keep moistened until replanted. The Contractor shall replant sod within 48 hours after removal, roll and water generously. The Contractor shall resod any areas not in healthy condition equal to adjoining lawns 10 days after replanting.
- Seeded Area: Trenching will be required across existing seeded areas, primarily roadway edging. The Contractor shall conform to the requirements of seeding, Section 02930 for the reseeding of the disturbed trench area.
- D. Pavements: Jack and bore or directional bore piping under paving materials as per local regulatory codes. No cutting and patching of pavement will be permitted.

3.06 VALVES

A Isolation Valves Shall be sized corresponding to aljacent pipe size. Specified valve boxes shall be installed floats with finals grade in such a manner that surface forces applied to think resposed area with in or be transmitted to the piping in which the valve is installed nor any other piping, wiring or other lines in the vicinity of said valves.

B. Gate Valves: Install where shown, in valve boxes.

C. Electric control Valves. Shall be installed in specifical value bases. The value shall have 6 of 3/d² pag gravel initial bodies the total or the value. If the value bas does not exceed to the base of the value a value base so the value base so the value base in the value base is a solution of the value. If the value base does not exceed to the base of the value a value base estimates that be installed. Electric control values shall be installed where shown and grouped togeth where particular. The Contractor shall place no closer that 2-d to walk edges, billwary degs. billings and the value base of the value b walls. The Contractor shall adjust the valve to provide flow rate or rated operating pressure required for each sprinkler circuit.

3.07 CONDUIT AND SLEEVES

- A. Conduit and Sleeves for Control Wiring and Main/Lateral Pipe: The Contractor shall provide and install where necessary. Contractor shall coordinate locations of previously installed sleeving with the General Site Contractor.
- The Contractor shall coordinate installation of sleeves with work of other disciplines

3.08 CONTROLS

- A. The Cor Contractor shall connect electric control valves to controllers in a clockwise sequence to correspond w station settings beginning with Stations 1, 2, 3, etc. Automatic controllers shall be provided and insta the contractor as noted on the drawings. All zones will be labeled on the controller.
- B. Controllers shall be equipped with lightning protection and grounded to a standard 5/8" copper clad steel ground rod driven a minimum of 8" into the ground and clamped.
- C. The electrical service to the controllers shall be performed by an electrical subcontractor in compliance with NEC

3.09 CONTROL WIRE

- A. Control wiring between the controller and electric valves shall be buried in main line trenches or in separate trenches. Electrical connection at valve will allow for pigtail so solenoid can be removed from valve with sufficient stack to allow ends to be pulled 12° above ground for examination and cleaning.
- B. An expansion loop shall be provided at every valve at 100° o.c. Expansion loop shall be formed by wrapping wire at least eight times around a 3/4° pipe and withdrawing pipe.
- C. The wire shall be bundled and taped every ten feet. The wire shall be laid in the trench prior to installing the pipe being careful to install wire beneath and 6" to the side of the main pipe line.
- D. Electrical connections to electric control valves shall be made with Rainbird Pen-Tite or Techdel GT-3-GEL Tite ctors or equa
- Power Connections: Electrical connections to power and signal wires shall be made using 3M 82-A2 power cable splice kits.

3.10 SPRINKLER HEADS

A. General Provisions:

- Sprinkler heads shall be installed as designated on the shop drawings. Heads shall be installed on flexible PVC. Top to be flush with finish grade or top of curb.
- Spacing of heads shall not exceed the maximum indicated on the shop drawings (unless directed by the Landscape Architect). In no case shall the spacing exceed the maximum recommended by the manufacturer.

B. Head Types:

- Pop-up- Rotary Sprinkler Heads: Shall be installed on flex joint and be set with top of head flush with finish grade. Heads installed at curb shall have 6° to 10° between perimeter of head and concrete. Heads plac at edge of pavement having no curb shall be installed 24 from edge of pavement.
- 2. Spray Pop-up Sprinkler Heads: Shall be installed on flexible PVC and be set with top of head flush with finished , grade. Sprinkler heads placed adjacent to curbs will be installed 9" from concrete. Sprinkler heads placed adjacent to pavement having no curb shall be installed 24" from the edge of pavement.

3.11 COMPLETION

- A. Flushing: Before sprinkler heads are set, the Contractor shall flush the lines thoroughly to make sure there is no foreign matter in the lines.
 - The Contractor shall flush the main lines from dead end fittings for a minimum of five minutes under a full head of pressure.
- B. Testing: The Contractor shall notify Landscape Architect and Owner forty-eight (48) hours in advance of testing.

shing: The Contractor shart nonly Calmscape Actinect and where tory-engine (4a) hours in advance or testing. Prior to backfilling or main line (Hings, Contractor shall fill the main line pipon with water, in the presence of the Owner/Landscape Architect, Laking care to purge the air from it by operating all the sprinkler control values one or more times and/or such them remains and by necessary. A small, high pressure punp or other means of maintaining a continuous water supply shall be connected to the main line and sets on as to maintain 100 and in the main line system is two 100 and 100 and

C. Adjustment and Coverage of System: Coordinate pressure testing with adjustments and coverage test of system so both may occur at the same time. The Contractor shall balance and adjust the various components of the systems to that the overall operation of the system is most efficient. This includes a synchronization of the controllers, adjustments to pressure regulators, pressure relief valves, part circle sprinkler heads, and individual station adjustments on the controllers.

3.12 WARRANTY

- A. The Contractor shall fully warrant the landscape irrigation system for a period of one (1) year after the written final acceptance and will receive a written confirmation from the Landscape Architect that the warranty period is in effect.
- B. During the warranty period, the Contractor will enforce all manufacturer's and supplier's warrantice as if made by the Contractor hinself. Any mailfurctions, detriendes, breaks, (ananese, chrones), criteriosi, or instead to materials, workmanship, or installation by the Contractor and his suppliers shall be immediately and properly corrected to the proper order as all interest by the Owner and/or Landscape Architect.
- C. Any damages caused by system malfunction shall be the responsibility of the Contractor who shall make full and immediate restoration for said damages.

FDOT IRRIGATION NOTES

The system shall use the lowest quality water available which adequately and safely meets the water needs of the system. Storm water, reclaim water, or grey water irrigation shall be used whenever possible.

- 2. FDOT requires 24-hour emergency access to water source.
- 3. Contractor shall provide FDOT District Operations Manager with a set of As-Built irrigation plans.
- Sleeving must be 36" below the roadway. Verify with FDOT Maintenance that sleeving/directional bore is permitted at this time. A newly resurfaced road cannot be disturbed for 5 years.
- Permittee's representative and an FDDT Inspector must be on site during all boring activities. Upon completion of the boring activities, Permittee Shall provide all documentation to be in accordance with FDDT Standard Specifications, Section 555 or 556, whichever is applicable.
- 6. Permittee's contractors that are performing directional drilling and/or jack and bore activities shall provide the Department (Permits Office) proof of a proper state contractor's license and certificate of Hability insurance prior to any commencement of permitted work.
- 7. Permittee will ensure that all locates have been performed prior to scheduling of any boring activities. This shall include soft digs to verify vertical and horizontal alignment

FDOT LANDSCAPE PERMIT NUMBER 2019-L-491-00016

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