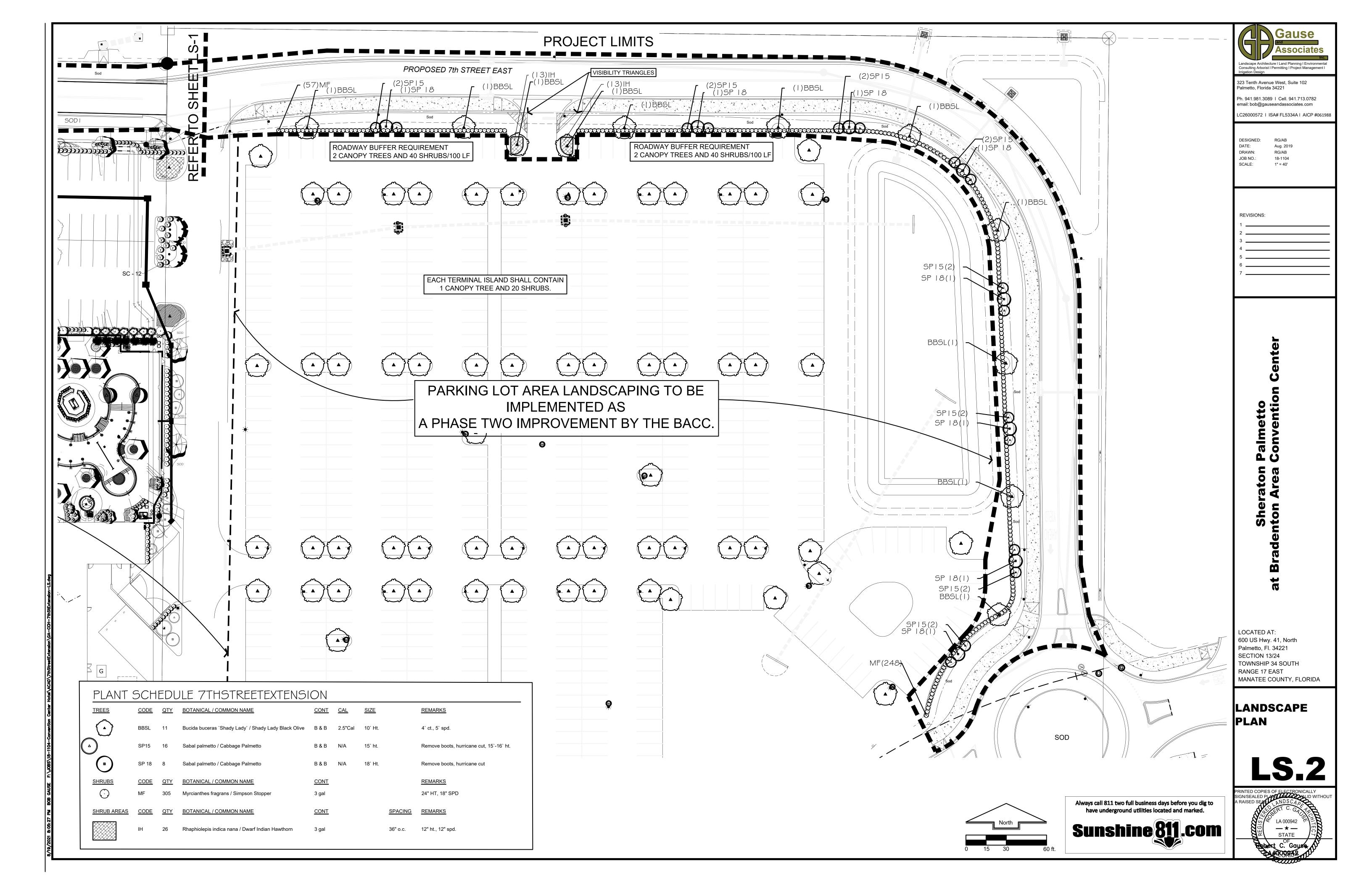


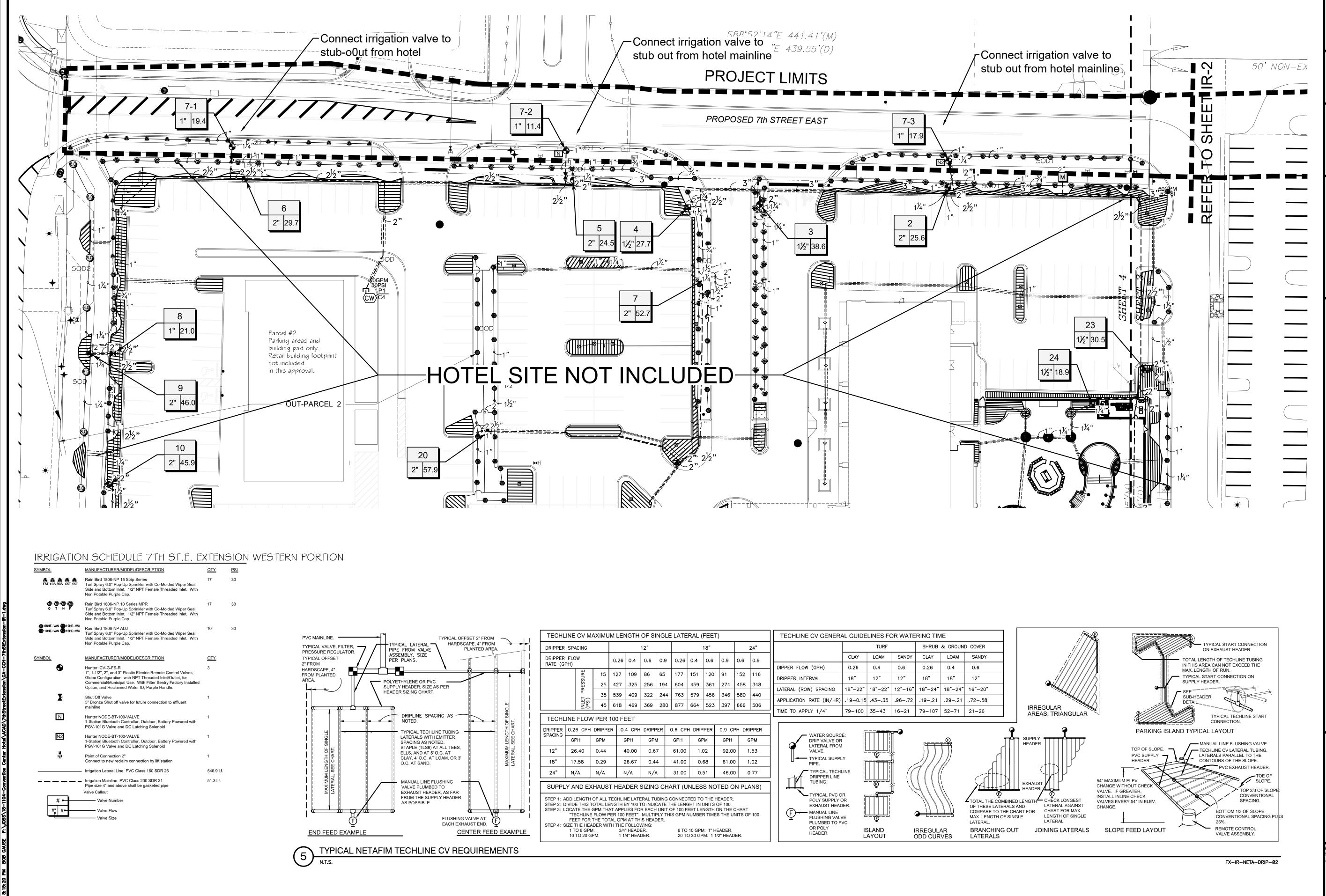
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LOCATED AT: 600 US Hwy. 41, North Palmetto, Fl. 34221 SECTION 13/24 **TOWNSHIP 34 SOUTH** RANGE 17 EAST MANATEE COUNTY, FLORIDA

LANDSCAPE





Gause
Associates
Landscape Architecture | Land Planning | Environmental
Consulting Arborist | Permitting | Project Management |
Irrigation Design

3 Tenth Avenue West, Suite 102 metto, Florida 34221

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DESIGNED: RG/AB

DATE: Aug. 2019

DRAWN: RG/AB

JOB NO.: 18-1104

SCALE: 1" = 40'

REVISIO

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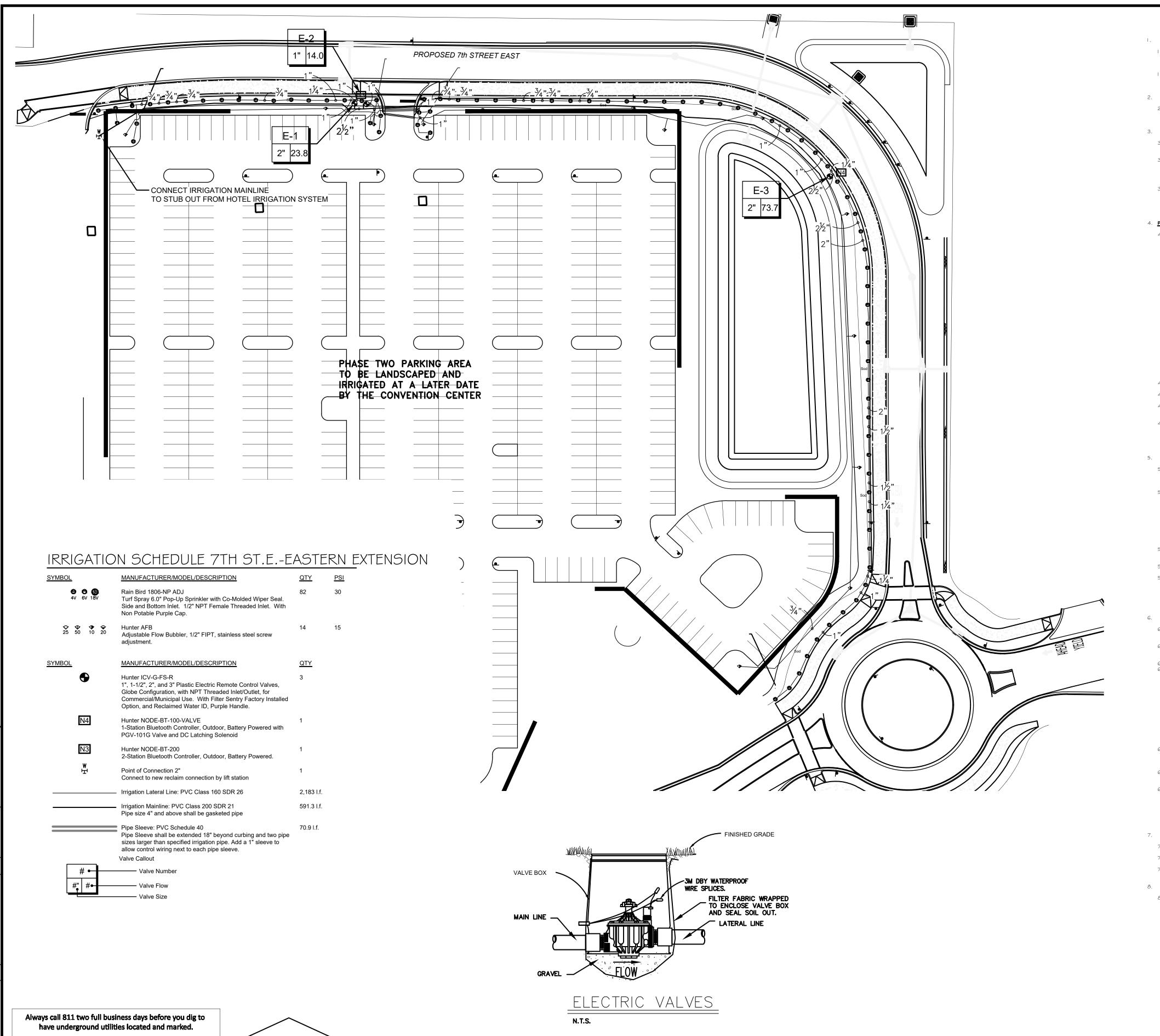
Sheraton Palmetto t Bradenton Area Convention Center

LOCATED AT:
600 US Hwy. 41, North
Palmetto, Fl. 34221
SECTION 13/24
TOWNSHIP 34 SOUTH
RANGE 17 EAST
MANATEE COUNTY, FLORIDA

IRRIGATION PLAN

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#### **IRRIGATION SPECIFICATIONS**

#### CONDITIONS:

- 1.1 The Contractor shall be responsible for adjusting head location, type, size and any other system components to comply with the requirements of landscaping as actually installed. Such adjustments shall be made at no cost to the Owner except for, when authorized in writing, such adjustments will be compensated at unit prices indicated in the proposal.
- 1.2 The Contractor shall be responsible for constructing the system in complete accordance with all local codes, ordinances, and laws. Any modifications made to conform with said codes, laws, and ordinances shall be completed at the Contractor's expense with no additional compensation allowed.

#### SAFETY PROVISIONS:

2.1 It shall be the responsibility of the Contractor to protect all persons from injury and to avoid property damage. Adequate warning devices shall be placed and maintained during the progress of the work. It shall be the Contractor's responsibility to conform to all local. State. and federal safety laws and codes including the Federal Occupational Safety and Health Act (O.S.H.A.).

## EXISTING UTILITIES:

- 3.1 Temporary support, adequate protection and maintenance of all underground and surface utilities, structures, drains, sewers and other obstructions encountered in the progress of the work shall be furnished by the Contractor solely at his expense.
- 3.2 Where the grade or alignment of the pipe is obstructed by existing utility structures such as conduit, ducts, pipe branch connections to sewer mains, main drains, water services, etc., the obstruction shall be permanently supported, relocated, removed, or reconstructed by the Contractor in cooperation with the Owner of such utility. No deviation from the required line or grade shall be made without the written direction of the Landscape Architect.
- 3.3 Thrust blocking shall be installed for all pipe line fittings, bends and valves installed with compression "Ring-Tite" joints. The minimum thrust block area shall be one (I) square foot in the thrust-absorbing direction, with the minimum total volume of blocking to be one (I) cubic foot of 2,000 p.s.i. concrete. Thrust blocking shall also be utilized for all main line bends or other bends or fittings where prudent.

#### 4. PIPE INSTALLATION:

- 4.1 In all cases, the installation of the irrigation system piping shall strictly conform to the manufacturer's recommendations.
- 4.1.1 Excavation shall be unclassified and shall include all materials whatsoever encountered in the excavation of trenches for pipe installation. The trench shall be of sufficient width and depth for installation of the pipe as indicated herein. The Contractor shall cause minimum disturbance to all existing conditions wherever possible; the Contractor shall bore under existing pavement and sidewalks rather than cut and restore. No pavement shall be cut without the Owner's written permission.
- 4.1.2 Pipe shall be delivered and stored on the jobsite with suitable protection against any damage to pipe and fittings.
- 4.1.3 The pipe and fittings shall be carefully inspected before installation in the trench. All rocks and unsuitable bearing material shall be made in strict accordance with the manufacturer's recommendations.
- a. Compression Joints: The bell end shall be dry and shall have the proper compression ring installed without lubricant and in the proper position. The spigot end shall be clean and lubricated with the recommended lubricant. The spigot end shall then be pushed 'home' as indicated when the manufacturer's reference mark is flush with the end of the bell. The completed joint will then be carefully laid in the trench.
- b. Solvent welded joints shall be made only on clean, dry, square cut, smooth pipe sections. The fitting shall be 'dry' tested for proper size before solvent is applied. The assembly shall proceed in strict accordance with recommended procedures
- 4.1.4 Pipe trench depths shall be as follows:

Main lines - 12" - 18"

4.2 Gate Valves 2-1/2" or less in size shall be as specified on the plans.

4.3 Vacuum Breakers shall be as required by local codes.

4.4 Automatic solenoid control valves shall be as specified on the plans. The valve shall have a slow closing feature, and manual bleed with pet

cock for manual operation installed. All valves shall have a manual flow control adjustment.

4.5 All automatic control valves shall be installed as shown on the detail for such valves and per manufacturer's specification. Once installed and wired to the controller, the Contractor shall adjust the flow controller on each valve to provide the proper flow rate and pressure on the downstream side of each valve. The control valve for mist sprinkler head sections shall be adjusted to provide approximately 30 p.s.i. dynamic pressure downstream with all heads operating. The solenoid control valve for rotary spray head sections shall be adjusted to provide approximately 30 p.s.i. dynamic pressure downstream with all heads operating.

#### SPRINKLER HEADS:

- 5.1 All sprinkler heads shall be furnished, installed, and operated in accordance with the plans and these Specifications. Installation shall comply with details set out herein. The Contractor shall guarantee all sprinklers and components for not less than one (1) year from installation warranting against all defects in normal material or workmanship.
- 5.2 The Contractor shall be responsible for the exact location of all sprinkler heads, acknowledging that the plans are schematic in nature. The Contractor shall accordingly place all sprinkler heads, adjust all nozzles, spray patterns and make whatever other adjustments that may be required to give the landscaped areas full, complete and proper coverage and distributions. The Contractor shall make all such adjustments and additions solely at his expense.
- 5.2.1 Pop-up Spray heads shall be as shown on the plans. Nozzle shall automatically rise 4" for operation, and shall self-retract. Construction shall be entirely of non-corroding materials, and shall be suitable for operations
- 5.2.2 Controllers shall be contained in lockable cabinets and located on structures as directed by Architect.
- 5.3 Control wiring shall be as specified by controller manufacturer. The wiring shall be installed in accordance with these plans and the
- 5.4 All controllers shall include a provision for system override by automatic moisture sensing devices.
- 5.5 All valve programming shall exactly follow the valve sequence as indicated on the plans. No deviation shall be made without the Landscape Architect's approval. Initial station tuning shall be in accordance with the Landscape Architect's instructions.

## 6. OTHER IRRIGATION EQUIPMENT:

- 6.1 The Contractor shall furnish and install all other irrigation equipment called for herein and on the plans in complete accordance with these
- 6.2 Valves, including remote control valves, manual control valves, gate valves, globe valves and pressure reducing valves shall be installed in a
- 6.3 At the end of the test period, the piping system shall be "blown-off" at the point most distant from the test pump. 6.4 The acceptance of a piping section because of its passing pressure and leakage tests in no way relieves the Contractor of his responsibility for the piping. At any time during the construction or the warranty period, the Landscape Architect or Owner may order subsequent tests. Such tests and any repairs required shall be solely at the expense of the Contractor.
- 6.4. I As an exception to the above testing requirements, all constant pressure main lines upstream from automatic control valves including pump station shall be pressure tested at 125 p.s.i. and shall be allowed leakage as follows:

Allowable = L= NDP 1/2 Leakage 3700 Where L= Gallons per hour N= Number of joints in test main D= Pipe diameter (nominal)

P= Average test pressure

- 6.5 Periodic inspections shall be scheduled by the Contractor as the work progresses. At such time the Landscape Architect shall inspect all work for complete conformance with these specifications. The Landscape Architect shall make any additional inspections that he may deem
- 6.6 Generally, inspections should be requested by the Contractor whenever any subsurface system is complete and ready for backfill, so that the Engineer may inspect completely that system without causing excavation of the system, which would be solely the expense of the Contractor.
- 6.7 Periodic inspections shall include the examination of sprinkler location placement and the conformance of such placement to the actual in-place landscaping requirements. Any relocation required will be ordered by the Landscape Architect and carried out by the Contractor at no additional costs.

## AS-BUILT DRAWINGS:

- 7.1 During the course of irrigation installation, Contractor shall prepare a reproducible set of as-built drawings for the entire system.
- 7.2 Said drawings shall be kept updated to show the accurate locations of all underground piping, valves, etc. that have been installed.
- 7.3 Upon completion of construction, the Contractor shall furnish the completed original drawings and one set of prints to the Owner, and one set of prints to the Landscape Architect.

## 8. WARRANTY PERIOD:

8.1 The entire irrigation system shall be fully guaranteed for parts and labor by the irrigation contractor for a period of one year following final acceptance by the owner or Landscape Architect. This warranty shall be extended to cover individual irrigation components which have longer manufacturer's warranties.



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C26000572 | ISA# FL5334A | AICP #061988

DESIGNED: RG/AB DATE: Aug. 2019 DRAWN: RG/AB JOB NO.: 18-1104 SCALE: 1" = 40'

## **REVISIONS:**

INCLUDE WESTERN PORTION 2020.06.

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LOCATED AT: 600 US Hwy. 41, North Palmetto, Fl. 34221 SECTION 13/24 **TOWNSHIP 34 SOUTH** RANGE 17 EAST MANATEE COUNTY, FLORIDA

# IRRIGATION PLAN

