

**Attachment A**

**Technical Specifications**

**LAKEHURST DRIVE SIDEWALK – PHASE 2  
IMPROVEMENT PROJECT**

**Sealed Electronic Bid # 202500\_\_  
(E-Bid)**



**TECHNICAL SPECIFICATIONS  
SIDEWALK, DRAINAGE, SIGNING & PAVEMENT MARKINGS, UTILITY  
ADJUSTMENTS**

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- 1      **STANDARD SPECIFICATIONS:** All work shall conform to the "Florida Department of Transportation Standard Specifications for Road and Bridge Construction" (2024-2025) and all supplementary specifications issued by the department along with the City

of Port St. Lucie Engineer Standards for Land Development, Commercial, Residential Subdivisions and Capital Improvement Projects, unless stated otherwise. Any reference in the FDOT Standard Specifications to the Engineer or Department shall mean the ENGINEER OF RECORD on this project. Specific references are made to certain portions of the FDOT Standard Specifications to facilitate the CONTRACTOR.

Any reference to "FDOT Standard Indexes" shall mean the FDOT Design Standards (FY 2024-2025 Edition) and Interims.

- 2     **SCOPE OF WORK:** Shall be as shown on the collective plans for Lakehurst Drive Phase 2 Sidewalk Improvement Project, encompassing Sidewalk Construction Plans Sheets 1 through 46 inclusive. The Scope of Work under this contract shall also include coordination between this CONTRACTOR and the CITY and any of its contractors throughout the duration of construction to complete all the items included in the construction plans.

- 3     **MEASUREMENT AND BASIS OF PAYMENT:** Measurement of quantities for progress payments shall be made by the CONTRACTOR. Such measurements are subject to the ENGINEER's review and correction.

Measurements for progress payments shall be made on in-place quantities. Requests for partial payment for materials on order, in warehouse or yard, or stockpiled on the project site will be accepted or denied at the CITY's discretion.

No item will be accepted for progress payment until all required testing has been successfully completed.

Measurements for progress payment shall be in accordance with Standard Specifications unless otherwise noted.

Final payment will not be made on any portion of the contract until the entire scope of work under this contract is complete.

- 4     **UTILITIES:** The CONTRACTOR shall be required to coordinate all work when necessary with the various utility companies in order that utility service may be maintained. The CONTRACTOR shall exercise due caution when working adjacent to such utilities. Any damage to the utilities resulting from the CONTRACTOR's operations shall be repaired at his expense. The design engineer has reflected on the plans those utilities he is aware of. The locations shown are approximate only. Any work involving conflict with utility companies shall be coordinated promptly without any delay to the project.

The Utility owners within the limits of this project have been identified as FPL, AT&T, Hometown Cable, Comcast, and Port St. Lucie Utilities. It is likely that the private utilities will not have all their utilities relocated prior to construction. It is the responsibility of the CONTRACTOR to coordinate with the utility owners in order to prioritize relocations and prevent delays in construction.



- 5 **BORROW & WASTE:** Any borrow needed shall be provided by the CONTRACTOR at no additional expense to the CITY. Any waste material shall be disposed of by the CONTRACTOR and shall be included in the cost of excavation.

6 **TESTING:**

**Description:** Testing shall be at the expense of the CITY, except that any test not meeting specification requirements shall be charged to the CONTRACTOR. An Independent Testing Laboratory shall be selected by the CITY to provide testing services as directed by the ENGINEER. The testing laboratory shall mail a copy of all test reports directly to the CONTRACTOR. The CONTRACTOR shall forward signed and sealed test reports to the ENGINEER. Test reports shall include the following data:

- |                         |  |
|-------------------------|--|
| 1. Project Name and No. | 7. Date of Testing                                       |
| 2. ENGINEER's Name      | 8. Technician Testing                                    |
| 3. CITY's Name          | 9. Test Results  |
| 4. CONTRACTOR's Name    | 10. Specification Requirements                           |
| 5. Date of Sampling     | 11. Whether or not test meets specification requirements |
| 6. Technician Sampling  | 12. Signature of Supervising Professional ENGINEER       |

The CONTRACTOR shall notify the ENGINEER when he has portions of the work ready for testing. The CONTRACTOR shall be responsible for contacting and scheduling all testing through the CITY's selected testing facility.

The CONTRACTOR shall provide for testing of all work efforts in accordance with the appropriate FDOT Standards.

The CONTRACTOR shall be responsible for scheduling all testing required through the CITY's independent Geotechnical Engineer and Testing Laboratory. The CONTRACTOR shall give the ENGINEER (CEI) and the Geotechnical Engineer at least one (1) day's prior notice of readiness of the Work for all required inspections, tests or approvals. Should standby time occur by the testing field technician, time in excess of 1 hour waiting for scheduled work to be completed prior to performing any required test per working day will be charged directly to the CONTRACTOR, unless previously approved by CITY. Any test not meeting specification requirements shall be charged directly to the CONTRACTOR.

7 **CONSTRUCTION LAYOUT:**

**Description:** Construction layout for horizontal and vertical control shall be performed by the CONTRACTOR. Grade stakes for pavement construction shall be set no farther apart than fifty (50) feet O.C. Horizontal and vertical control points are shown on the plans.

**Record Drawings:** CONTRACTOR shall keep one record copy of all specifications, prints, drawings, addenda, modifications and shop drawings at the site in order, and annotated to show all changes made during the construction process. CONTRACTOR

shall provide ENGINEER and CITY one (1) digital file in AutoCAD format of the As-Built drawings for the entire project as well as six sets of prints signed and sealed by a licensed surveyor, an electronic pdf set of asbuilt drawings and a signed and sealed pdf electronic file. The ENGINEER will provide a CADD drawing in AutoCAD as a basis for the record drawings. The As-Built drawings are to be delivered by the CONTRACTOR to the ENGINEER within thirty (30) days of Final Completion. This is critical for the certification of the facilities to the CITY and various regulatory agencies. Final payment shall not be made until As-Built drawings have been received and approved by the CITY.

8 **TEMPORARY TRAFFIC CONTROL PLANS**

Temporary Traffic Control Plans shall be lump sum and shall include all items necessary to conform to the latest FDOT Specifications, FDOT Design Standard Indices Drawings and Manual on Uniform Traffic Control Devices, except as may be paid for as a separate pay item as shown in contract documents. This item shall also include all costs for temporary signing and pavement markings (paint), barricades, arrow boards, cones, crossing guards, off-duty policemen, flagmen, flags, temporary pavement, temporary sidewalks, detours, adjacent property access, driveway connections and maintenance of existing and temporary pavements, access, bicycle paths, sidewalks, driveway connections and adjacent property access and obliteration of conflicting markings. "Blacking-out" with paint will not be allowed.

The CONTRACTOR shall prepare a Temporary Traffic Control Plan (TTCP) for review and approval by the CITY and ENGINEER. Work may not begin until the CITY has approved the TTCP plan.

The CONTRACTOR shall coordinate any street closings or detours necessary for the maintenance of traffic with the City of Port St. Lucie. Port St. Lucie Boulevard and Cameo Boulevard shall remain open at all times. All costs associated with this coordination will be included in the cost of Temporary Traffic Control Plan (TTCP).

FDOT Standard Specification Section 102-2.1 Maintenance of Devices and Barriers will be enforced on this project. In addition, devices which are brought onto the project which are not in conformity to the aforementioned standards, or are damaged or defaced, will be rejected by the ENGINEER and shall be replaced by the CONTRACTOR at no additional cost to the CITY.

The CONTRACTOR is to provide a Temporary Traffic Control Plan for approval by the ENGINEER and the CITY.

Approval from all respective agencies and/or authorities as approved in the Contract Documents will be the sole responsibility of the CONTRACTOR.

The CONTRACTOR shall not block access to driveways except where same area is to be removed and replaced. The CONTRACTOR shall give twenty-four (24) hours advance written notice to the resident or occupant of the property of driveway removal and replacement operations and supply the CITY's representative a copy of same.

**Method of Measurement and Basis of Payment.** All items included in this section shall be carried out by the CONTRACTOR as incidental to the bid price of Bid Item No. 102-1 Maintenance of Traffic on a Lump Sum basis.

- 9 **WATER RESOURCES:** The CONTRACTOR shall not discharge without permit into the waters of lakes, rivers, canals, waterways and ditches, any fuels, oils, bitumen's, garbage, sewage, or other materials which may be harmful to fish, wildlife, or vegetation, or that may be detrimental to outdoor recreation. The CONTRACTOR shall be responsible for investigating and complying with all applicable Federal, State and local laws and regulations governing pollution of waters. All work under this contract shall be performed in such a manner that objectionable conditions will not be created in waters through or adjacent to the project areas. If a violation is noted during dredging, all dredging shall cease until the condition is corrected, at no additional cost to the CITY.

**Turbidity:** The CONTRACTOR shall exercise extreme care to minimize degradation of water quality at the site. All necessary provisions shall be taken to ensure compliance with the water quality standards of the State of Florida. Attention is called to Chapter 17-3, Florida Administrative Code. Adequate silt containment procedures and equipment shall be used to control turbidity within State standards.

**Water Quality Measurements:** When required by any Governmental Agency, the CONTRACTOR shall make water quality measurements and submit to Agency and ENGINEER, in addition to those required herein, to assure construction operations are in compliance with the Standards of 17-3, F.A.C. All water quality measurements shall conform to the test methods specified in Chapter 40, Part 136 of the Code of Federal Regulations.

**Disposal:** If any waste material is dumped in unauthorized areas, the CONTRACTOR shall remove the material and restore the area to the condition of the adjacent undisturbed area. If necessary, contaminated ground shall be excavated, disposed of as directed by the ENGINEER and replaced with suitable fill materials, compacted and finished with topsoil, all at the expense of the CONTRACTOR.

**Method of Measurement and Basis of Payment:** All materials, labor and equipment needed to prosecute the work required by this Specification shall be carried out by the CONTRACTOR as incidental to the bid price of the various bid items of this Contract, 104-10-3 Sediment Barrier, 104-11 Floating Turbidity Barrier, and 104-18 Inlet Protection System with no additional cost to be incurred by the CITY.

- 10 **FISH AND WILDLIFE RESOURCES:** The CONTRACTOR shall at all times perform all work and take such steps required to prevent any interference or disturbance to fish and wildlife. The CONTRACTOR shall not be permitted to alter water flows or otherwise significantly disturb native habitat adjacent to the project area which are critical to fish and wildlife except as may be indicated or specified.

**Method of Measurement and Basis of Payment:** All materials, labor and equipment needed to prosecute the work required by this Specification shall be carried out by the CONTRACTOR as incidental to the bid price of the various bid items of this Contract, with no additional cost to be incurred by the CITY.

11      **EROSION AND SEDIMENT CONTROL MEASURES:**

In addition to the requirements of Section 104 of the FDOT Standard Specifications, the CONTRACTOR shall be responsible for the following items:

**Reduction of Exposure of Unprotected Erosive Soils:** Earthwork brought to final grade shall immediately be finished as indicated and specified. All earthwork shall be planned and conducted in such a manner as to minimize the duration of exposure of unprotected soils. Protection to erosion shall be furnished by grassing exposed slopes and unprotected soils.

**Temporary Protection of Erosive Soils:** Such methods as may be necessary shall be utilized on areas to effectively prevent erosion and control sedimentation.

**Turbidity Control:** The CONTRACTOR shall employ adequate silt containment equipment and/or procedures during construction activities to control turbidity within the limits required by local, State or Federal law and/or permit requirements.

**Method of Measure and Basis of Payment:** When separate items for Temporary Erosion control are included in this Contract, the quantities to be paid under this Section will be for the contract Unit Bid price for the specific item. When other items for temporary erosion control are needed, but no provision has been made for separate items in this Contract, all materials, labor and equipment needed to prosecute the work required by this Specification shall be carried out by the CONTRACTOR as incidental to the bid price of the various bid items of this Contract, with no additional cost to be incurred by the CITY.

**NPDES Permit:** The contractor shall obtain a NPDES permit for the project. The costs associated with preparing the application shall be incidental to the construction.

12      **ENVIRONMENTAL PROTECTION:** In order to prevent and to provide for abatement and control of any environmental pollution arising from the work of the CONTRACTOR and his Subcontractors in the performance of this Contract, the CONTRACTOR shall comply with all applicable Federal, State and Local laws and regulations concerning environmental pollution control and abatement, and all applicable provisions of the Army Corps of Engineers manual, EM 385-1-1, entitled General Safety Requirements, in effect on the date of the work, as well as the specifications, including the Corps of Engineers and Florida Department of Environmental Protection permits, if applicable to this project.

The CONTRACTOR shall provide and maintain environmental protection during the term of the Contract. Environmental protection measures shall be provided to control pollution that develops during normal dredging and/or excavation practices. The CONTRACTOR's operations shall comply with all Federal, State, and Local regulations pertaining to water, air, solid waste and noise pollution. Compliance with the provisions of this Section by subcontractors shall be the responsibility of the CONTRACTOR.

**Method of Measurement and Basis of Payment:** All materials, labor and equipment needed to prosecute the work required by this Specification shall be carried out by the

CONTRACTOR as incidental to the bid price of the various bid items of this Contract, with no additional cost to be incurred by the CITY.

13 **CLEARING AND GRUBBING:**

**Description:** The work specified in this section consists of clearing and grubbing as defined under Section 110 of the FDOT Standard Specifications. Also included in the work under this Section is certain other miscellaneous work necessary for the complete preparation of the project site as follows:

The removal and disposal of materials and debris resulting from clearing and grubbing operations and the relocation/adjustments and maintenance of existing mail boxes.

The construction site shall be cleared as required and all areas upon which utility piping, structures, concrete slabs, foundations or pavement is to be placed shall be cleared and grubbed. This includes clearing all areas required to construct improvements as shown in the construction plans.

The CONTRACTOR is expected to visit the site of the work and determine for himself the extent of clearing and grubbing necessary for his construction operations.

**Standard Clearing and Grubbing.** Work under this item will be done in accordance with Sub-Sections 110-2 of the FDOT Standard Specifications. This work also includes the removal of existing pavement and all other related items shown in the construction plans.

**Removal of Existing Structures.** Work under this item will be done in accordance with Sub-Sections 110-6 and 110-7 of the FDOT Standard Specifications. This work also includes the removal of existing culvert pipes, stormwater inlets, flexible pavement, and concrete headwalls as shown in the construction plans.

**Removal of Debris.** All materials and debris resulting from clearing, or clearing and grubbing, operations shall be removed from the site and disposed of in an approved manner. This shall be incidental to the unit price for Standard Clearing and Grubbing.

**Disposal of Materials.** Disposal of all materials removed during the clearing & grubbing operations of this project shall be done in accordance with Section 110-9 of the FDOT Standard Specifications and shall abide by all Local, State, and Federal regulations.

**Method of Measurement and Basis of Payment.** All items included in this section shall be carried out by the CONTRACTOR as incidental to the bid price of Bid Item No. 110-1-1, Clearing & Grubbing, on a per Acre and 110-4-10A, Existing Concrete Removal, and 110-4-10B Existing Brick Paver Driveway Removal, Square Yard basis.

14 **CONTROL AND DISPOSAL OF WASTE:** Wastes shall be picked up and placed in containers that are emptied on a regular schedule. All handling and disposal shall be so conducted as to prevent contamination of the site and any other areas. On completion, the areas shall be left clean and natural looking. All sights of temporary construction

and activities incidental to construction of the required permanent work in place shall be obliterated.

Disposal of Rubbish and Debris: CONTRACTOR shall transport all waste off of CITY's property and dispose of it in a manner that complies with federal, state and local requirements.

- 15      **DUST CONTROL**: Dust shall be kept down at all times, including non-working hours, weekends and holidays. Soil at the site and other areas disturbed by the CONTRACTOR's operations shall be sprinkled or treated with dust suppressor as necessary to control dust. Blowing will be permitted only for cleaning off non-particulate debris, such as reinforcing bars. No sandblasting will be permitted unless the dust there from is confined, except in areas approved by the CITY.

- 16      **REGULAR EXCAVATION**: Regular Excavation consists of all materials, equipment and labor to perform work as defined in Section 120 of the Standard Specifications. In addition, the work covered under this section consists of excavating, removing and satisfactorily disposing of, all materials of whatever nature, within the limits of construction. This work also includes the hauling, stockpiling, and maintenance of all excavated material as directed by the CITY. Included in this section is all excavation and finishing necessary for the construction, preparation and completion of all lake excavation, culvert installation and landscape area preparation, all in accordance with the required grade and cross sections shown on the drawings or as directed by the ENGINEER.

The CONTRACTOR shall perform all excavation necessary to accomplish the construction indicated on the plans. Excavated materials; shall be stockpiles in the project as directed by the ENGINEER. Unsuitable materials will be removed from the site and disposed of by the CONTRACTOR at no additional cost to the CITY.

The CONTRACTOR shall do all shoring necessary to perform and protect the excavation and, as necessary, for the safety of the workers and any existing facilities. Wherever excavations are made below the grades indicated on the plans, firm material shall be used to restore the area to the proper grade and shall be compacted in accordance with these specifications. All excavation work shall conform to the Trench Safety Act Chapter 90-96 Laws of Florida. All Trench Safety requirements shall be incidental to the cost of excavation.

The CONTRACTOR shall provide adequate equipment for the removal of storm or subsurface waters that may accumulate in the excavated areas. If subsurface water is encountered, the CONTRACTOR shall utilize approved means in compliance with the SFWMD dewatering permit to adequately dewater the excavation so that it will be dry for working and pipe laying. A well point system or other approved dewatering method shall be utilized if necessary to maintain the excavation in a dry condition for preparation of the trench bottom and for pipe laying.

All existing improvements such as pavements, conduits, poles, pipes and other structures shall be carefully supported and fully protected from injury and, in case of damage, they shall be restored without compensation. Existing utilities and other

underground obstructions are shown on the plans but the accuracy of the locations and depths is not guaranteed. The CONTRACTOR shall be responsible for damages to these existing utilities and shall, in case they are damaged, restore them to their original condition.

Unless specifically authorized by the ENGINEER, all pipe shall be laid in the dry, and the CONTRACTOR shall do such pumping as is required for proper execution of the work and to dispose of the water without damage or undue inconvenience of the work, the surrounding area, or the public. He shall not dam, divert or cause water to flow in excess in existing gutters, swales, pavements or other structures, and to this end may be required to conduct the water to a suitable place of discharge. Well point system or other approved equipment shall be used to maintain excavations in a dry condition for pipe laying.

Where muck, rock, clay or other material within the limits of construction is, in the opinion of the ENGINEER, unsuitable in its original position, the CONTRACTOR shall excavate such material and backfill the excavated area with suitable material, which shall be compacted and shaped to conform to the required section. This work shall be performed in accordance with FDOT Standard Index 500.

It is the intent of this specification that all pipe and other structures shall be provided with a stable foundation and that any material which by reason of kind or condition is not or cannot be made stable by drainage or compaction shall be removed or replaced. Therefore, any material encountered at the elevation shown on the drawings or specified for pipe that will not or cannot be improved to provide a stable foundation for the pipe shall be removed and replaced. All unstable material below the grade line of the pipe shall be removed for the full width of the trench and replaced with suitable selected material, compacted as specified elsewhere in these specifications. For the purpose of this specification, muck, peat and other highly organic soils shall be considered to be unstable materials. Also, any soil which is or might become wet to such a degree that its moisture content is equal to or greater than 90 percent of its liquid limit will have to be specifically approved by the ENGINEER with regard to stability or shall be considered to be an unstable material requiring removal and replacement.

These items include the cost for the CONTRACTOR to remove, transport, place, and maintain material as described in the contract documents. Payment for these items will be based on compacted volumes. Prior to CONTRACTOR shall cut cross sections of the existing ground or utilize the design topography data. Upon completion of construction, CONTRACTOR shall complete cross sections of the site. The difference between the pre and post construction sections will be used to calculate the excavation and embankment volumes.

**Method of Measurement and Basis of Payment.** Payment for Excavation and Embankment shall be made under Bid Item No. 120-1 on a Cubic Yard Basis.

- 17     **EMBANKMENT:** Embankment consists of all materials, equipment and labor to perform work as defined in Section 120 of the Standard Specifications. In addition, the work covered under this section consists providing all materials of whatever nature, within the limits of construction. This work also includes the hauling, stockpiling, and

maintenance of all fill material as directed by the CITY. Included in this section is all fill and finishing necessary for the construction, preparation and completion of all lake bank berm construction, and sidewalk and culvert installation, all in accordance with the required alignment, grade and cross sections shown on the drawings or as directed by the ENGINEER.

The CONTRACTOR shall perform all embankment necessary to accomplish the construction indicated on the plans.

All existing improvements such as pavements, conduits, poles, pipes and other structures shall be carefully supported and fully protected from injury and, in case of damage, they shall be restored without compensation. Existing utilities and other underground obstructions are shown on the plans but the accuracy of the locations and depths is not guaranteed. The CONTRACTOR shall be responsible for damages to these existing utilities and shall, in case they are damaged, restore them to their original condition.

Unless specifically authorized by the ENGINEER, all pipe shall be laid in the dry, and the CONTRACTOR shall do such pumping as is required for proper embankment work and to dispose of the water without damage or undue inconvenience of the work, the surrounding area, or the public. He shall not dam, divert or cause water to flow in excess in existing gutters, swales, pavements or other structures, and to this end may be required to conduct the water to a suitable place of discharge. Well point system or other approved equipment shall be used to maintain embankment in a dry condition for pipe laying.

It is the intent of this specification that all pipe and other structures shall be provided with a stable foundation and that any material which by reason of kind or condition is not or cannot be made stable by drainage or compaction shall be removed or replaced. Therefore, any material encountered at the elevation shown on the drawings or specified for pipe that will not or cannot be improved to provide a stable foundation for the pipe shall be removed and replaced. All unstable material below the grade line of the pipe shall be removed for the full width of the trench and replaced with suitable selected material, compacted as specified elsewhere in these specifications. For the purpose of this specification, muck, peat and other highly organic soils shall be considered to be unstable materials. Also, any soil which is or might become wet to such a degree that its moisture content is equal to or greater than 90 percent of its liquid limit will have to be specifically approved by the ENGINEER with regard to stability or shall be considered to be an unstable material requiring removal and replacement.

All backfill material shall be clean and free of lumber, trash or other debris and shall be thoroughly compacted in layers not to exceed eight inches and brought to an elevation above the finished grade sufficient to allow for settlement. Prior to placing backfill, the areas around structures upon which the backfill is to be placed shall be cleaned of all trash and debris of any nature. Any sheeting and bracing allowed to be left in place shall be cut off a minimum of 2.5 ft. below finished grade.



Finishing shall consist of the preparation, trimming and shaping to the lines and grades shown on the drawings, and all areas outside the paved areas in such a manner to receive grassing, sod or planting without additional work.

Areas to be compacted shall be moistened or dried and compacted by either rolling, tamping or any other method approved by the ENGINEER in order to obtain the desired density. The CONTRACTOR shall inspect all compacted areas prior to further construction operations to ensure that satisfactory compaction has been obtained.

All embankment, including backfill and embankment adjacent to structures, shall be compacted to a density of not less than 100 percent of the maximum density as determined by AASHTO T-99. If in the ENGINEER's opinion density tests are required, such tests shall be made as directed by the ENGINEER at the expense of the CITY. The CONTRACTOR shall instruct the testing laboratory to forward copies of all test reports to the ENGINEER.

These items include the cost for the CONTRACTOR to remove, transport, place, and maintain material as described in the contract documents. Payment for these items will be based on compacted volumes. Prior to CONTRACTOR shall cut cross sections of the existing ground or utilize the design topography data. Upon completion of construction, CONTRACTOR shall complete cross sections of the site. The difference between the pre and post construction sections will be used to calculate the excavation and embankment volumes.

**Method of Measurement and Basis of Payment.** Payment for Excavation and Embankment shall be made under Bid Item No. 120-6 on a Cubic Yard Basis.

- 18 **EXCAVATION AND DEWATERING:** Excavation and Dewatering consists of all materials, equipment and labor to perform excavation as defined in Section 125 of the FDOT Standard Specifications, unless otherwise stated herein. It shall also include (1) the construction and removal of cofferdams, sheeting, bracing, etc.; (2) pumping or otherwise dewatering foundations, including rock for dewatering; (3) the removal and disposal of any existing structures or portions of structures not covered by other items in the contract, including foundations, abutments, piers, wings, obstructions, etc., found necessary to clear the site for the proposed work which are not otherwise covered under other bid items; (4) backfilling, disposing of surplus material and final cleaning, as may be necessary for the proper execution of the work.

The work for culverts shall conform to Paragraph 125-4.4 of the FDOT Standard Specifications.

The CONTRACTOR shall comply with all limiting conditions of the approved SFWMD dewatering permit. If the CONTRACTOR must deviate from the provisions of the permit, the CONTRACTOR is responsible for obtaining the proper permit modification prior to performing the proposed work requiring the modification.

The CONTRACTOR shall provide adequate equipment for the removal of storm or subsurface waters that may accumulate in the excavation. If subsurface water is encountered, the CONTRACTOR shall utilize suitable equipment to adequately

dewater the excavation so that it will be dry for work and pipe laying. A well point system or other ENGINEER approved dewatering method shall be utilized, if necessary, to maintain the excavation in a dry condition for preparation of the trench bottom and for pipe laying.

Dewatering by trench pumping will not be permitted if migration of fine-grained natural material from bottom, side walls or bedding material will occur. In the event that satisfactory dewatering cannot be accomplished due to subsurface conditions or where dewatering could damage existing structures, the CONTRACTOR shall obtain the ENGINEER's approval of wet trench construction procedure before commencing construction. Dewatering shall cease in a manner to allow the subsurface water to slowly return to normal levels.

Water pumped from the trench or other excavation shall be disposed of in storm sewers having adequate capacity, canals or suitable disposal pits. CONTRACTOR is responsible for acquiring all permits required to discharge the water and shall protect waterways from turbidity during the dewatering operation. In areas where adequate disposal sites are not available, partially backfilled trenches may be used for water disposal only when the CONTRACTOR's plan for trench disposal is approved in writing by the engineer. The CONTRACTOR's plan shall include temporary culverts, barricades and other protective measures to prevent damage to property or injury to any person or persons. No flooding of streets, roadways, driveways or private property will be permitted. Engines driving dewatering pumps shall be equipped with residential type mufflers.

19 **PIPE CULVERTS, INLETS and MITERED END SECTIONS:**

**Description.** The work specified under this section shall be in accordance with sections 400, 415, 425 and 430 of the FDOT Standard Specifications.

**Method of Measurement and Basis of Payment:** The quantities to be paid under this section shall include all materials, labor and equipment needed to prosecute the work required by this specification and will be paid for at the contract unit bid price for the specific item with no additional cost to be incurred by the CITY.

Payment shall be made under the corresponding Bid item number found in the Schedule of Contract Values 425 series per Each; and 430 series per Linear Foot and Each.

20 **CONCRETE CURB & GUTTER:**

**Description.** The work specified under this section shall be in accordance with section 520 of the FDOT Standard Specifications.

**Method of Measurement and Basis of Payment:** The quantities to be paid under this section shall include all materials, labor and equipment needed to prosecute the work required by this specification and will be paid for at the contract unit bid price for the specific item with no additional cost to be incurred by the CITY.

Payment shall be made under the corresponding Bid item number found in the Schedule of Contract Values, Items 520-1-10A Concrete Curb & Gutter Type F; and 520-1-10B Concrete Curb & gutter, Drop Curb, all per Linear Foot.

**21      CONCRETE SIDEWALK/PADS, 4" & 6" THICK:**

**Description.** The work specified under this section shall be in accordance with section 522 of the FDOT Standard Specifications.

**Method of Measurement and Basis of Payment:** The quantities to be paid under this section shall include all materials, labor and equipment needed to prosecute the work required by this specification and will be paid for at the contract unit bid price for the specific item with no additional cost to be incurred by the CITY.

Payment shall be made under the corresponding Bid item number found in the Schedule of Contract Values, Item 522-1 Concrete Sidewalk/Pads, 4" Thick; and 522-2A Concrete Sidewalk/Pads, 6" Thick, and 522-2B Concrete Sidewalk/Pads, 6" Thick (Shallow Pipe Cover) all per Square Yard.

**22      DETECTABLE WARNING:**

**Description.** The work specified under this section shall be in accordance with section 527 of the FDOT Standard Specifications.

**Method of Measurement and Basis of Payment:** The quantities to be paid under this section shall include all materials, labor and equipment needed to prosecute the work required by this specification and will be paid for at the contract unit bid price for the specific item with no additional cost to be incurred by the CITY.

Payment shall be made under the corresponding Bid item number found in the Schedule of Contract Values, Item 527-2, Detectable Warning per Square Foot.

**23      SODDING:** All sodding work on this project shall be provided in accordance with Sections 570 and 575 of the FDOT Standard Specifications and revisions. Unless otherwise specified in the Plans, all sodding shall consist of Bahia grass sodding, except in residential and commercial areas where the sod shall be the same type as which was disturbed or removed.

Payment shall be made under: Item 570-1-2 Performance Turf - Sod, per square yard.

**24      SIGNING, PAVEMENT MARKINGS:**

**Description.** The work specified under this section shall be in accordance with section 700, 706, and 711 of the FDOT Standard Specifications.

**Method of Measurement and Basis of Payment:** The quantities to be paid under this section shall include all materials, labor and equipment needed to prosecute the work required by this specification and will be paid for at the contract unit bid price for the specific item with no additional cost to be incurred by the CITY.

Payment shall be made under the corresponding Bid item number found in the Schedule of Contract Values series 700-1-11A through 711-11-224, per Each, or Linear Foot.

**25      UTILITY ADJUSTMENTS:**

**Description.** The work specified under this section shall be in accordance with The Port St. Lucie Utility Systems Department 2019 Utility Standards.

The work shall include the adjustments to existing valves both potable water and sanitary sewer along with the relocation of an existing fire hydrant to meet proposal plan elevations and locations.

**Method of Measurement and Basis of Payment:** The quantities to be paid under this section shall include all materials, labor and equipment needed to prosecute the work required by this specification and will be paid for at the contract unit bid price for the specific item with no additional cost to be incurred by the CITY.

Payment shall be made under the corresponding Bid item number found in the Schedule of Contract Values, Items 1080-214-00, and 1080-215-00A through 1080-215-00D, per Each.

- 26 **PROJECT SCHEDULE:** Within ten (10) calendar days after the execution of the Contract, or at the pre-construction meeting whichever is earlier, CONTRACTOR shall submit for approval, three copies of a schedule of work showing in detail satisfactory to the ENGINEER and the CITY, the order which CONTRACTOR proposes to carry on the work, the interdependence of activities, the date on which it will start the individual activities, including procurement of materials, plans and equipment, submission and receipt of shop drawings, duration, monetary value, resource allocation, earliest and latest starting and completion dates for each operation. The schedule shall be in the form of progress chart of suitable scale to indicate appropriately the percentage of work schedule for completion at any time. All activities are to be described so that the work is readily identifiable and the progress on each activity can be readily measured. The schedule shall be prepared in such a manner that all elements are contained on the schedule diagram i.e. Early Start, Late Start, Early Finish, Late Finish and Duration. Separate detail sheets containing this information are not acceptable. If CONTRACTOR elects to use a computer generated CPM the selected software and output format (including size, color, order, etc.) is to be approved and accepted by the ENGINEER before CPM preparation. The schedule shall be accompanied by a working plan which is a concise written description of CONTRACTOR's construction plan. This plan shall include but not be limited to the phasing, sequence, identification of work crews and summary of the work. CONTRACTOR shall resubmit revised schedule whenever requested to comply with such comments as may be required by the ENGINEER and the CITY.

CONTRACTOR shall enter on the above-mentioned chart the actual progress accompanied with a written description at monthly intervals and shall immediately deliver to the ENGINEER three (3) copies thereof along with each progress payment request. If CONTRACTOR fails to submit a progress schedule within the time here prescribed, the ENGINEER may withhold approval of progress payment request until such time as CONTRACTOR submits the required progress schedule.

If a majority of the activities have a float period less than ten (10) days, then the CONTRACTOR must provide complete details on the resource allocation as requested by the ENGINEER.

The CONTRACTOR must provide letters from his subcontractors that indicate their acceptance of the proposed schedule.

The CONTRACTOR shall submit a concise written explanation of the schedule impacts attached to the delay claim and the next schedule update.

**Method of Payment and Basis of Payment:** All material, labor and equipment required to perform the work effort for this item shall be carried out by the CONTRACTOR as incidental to the bid price of the various bid items of this contract, with no additional cost to be incurred by the CITY.

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## TECHNICAL SPECIFICATIONS

### SPECIAL CONDITIONS

1. **SURVEY CONTROL** - The bench marks for survey control for the project have been indicated in the construction plans. The location of these control points may at times be located within the construction area. It is the responsibility of the CONTRACTOR to locate, preserve, or offset these points as required to maintain proper survey control for the project for the duration of the construction efforts. Control points shall be re-established upon completion of construction at the expense of the CONTRACTOR.

Grades shown are finished grades, and B.M. Datum is North American Vertical Datum 1988 (NAVD-1988) as noted in the plans.

2. **FIELD OFFICE** – Should the CONTRACTOR provide themselves a field office for this project, the office and all associated costs shall be included in the cost of mobilization. No field office is required by the City of Port St. Lucie.
3. **CONSTRUCTION ITEMS IN THE BID FORM** - Construction items in the Bid Form may be increased, decreased or deleted at the direction of the ENGINEER and the CITY with no adjustment to unit cost
4. **EXISTING SIGNS** - Existing signs shall not be damaged during construction. If damage occurs, it shall be the CONTRACTOR's responsibility to repair or replace the signage at no additional cost to the Contract. Existing signs that require relocation shall include installation of the existing sign panel on a new post meeting current FDOT and MUTCD standards.
5. **PROJECT SUPERVISOR** - The Project Supervisor is Emily Seitter, CIP Administrator of the City of Port St. Lucie Public Works Department and may be reached at (772) 344-4138.
6. **DESIGN ENGINEER** - The "Engineer of Record" for the project is Mr. Stefan K. Matthes, P.E., of Culpepper & Terpening, Inc. and can be reached at (772) 464-3537. Professional Engineer duly licensed and registered in the State of Florida and designated by the CITY as Design Engineer
7. **ENGINEER** - The CEI "Engineers of Record", hereinafter called "ENGINEER", for this project is Mr. Stefan K. Matthes, P.E., of Culpepper & Terpening, Inc. and can be reached at (772) 464-3537. Professional Engineer duly licensed and registered in the State of Florida and designated by the CITY as Engineer
8. **SEQUENCE OF CONSTRUCTION:** The actual construction sequence shall be established by the CONTRACTOR and forwarded to the CITY and the ENGINEER for approval through the Project Schedule. The Schedule shall be prepared using a Critical Path Method or other approved project-schedule tool. The schedule shall be updated on a monthly basis and

submitted to the Engineer with the pay request. All schedule submittals, shall have a copy of the schedule files on a Windows compatible CD attached.

9. **RETESTS AND STANDBY TIME FOR SOILS TESTING COMPANY** – The costs for all retests and standby time for the testing companies will be paid by the CONTRACTOR.
10. **GEOTECHNICAL REPORT** – The Geotechnical Report prepared for the design of this project is included in this document. The project has been designed to the best extent possible given the information in the reports. Should the CONTRACTOR find actual field conditions that do not agree with items shown in the construction plans or any report, he shall immediately bring the discrepancy to the attention of the ENGINEER. Should the CONTRACTOR intentionally ignore any such discrepancy, the CONTRACTOR shall be held liable for all costs incurred in correcting any resulting issues.
11. **EXCAVATED MATERIAL** – The CONTRACTOR shall stockpile all excess soil on-site at the direction of the ENGINEER.

**END OF SECTION**

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COMPONENTS OF CONTRACT PLANS SET  
\* SIDEWALK CONSTRUCTION PLANS

INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF PAY ITEMS
4	TYPICAL SECTION
5	TYPICAL DETAIL
6	PROJECT LAYOUT
7-16	PLAN SHEETS
17-26	CROSS SECTION
27-32	DRIVEWAY CROSS SECTION
33-37	EROSION CONTROL PLAN
38-39	EROSION CONTROL NOTES
40-44	SIGNING & PAVEMENT MARKING PLAN
45-46	TRAFFIC CONTROL TYPICAL SECTION

FLORIDA DEPARTMENT OF TRANSPORTATION.

STANDARD PLANS FOR ROAD AND BRIDGE  
CONSTRUCTION DATED 2024-2025.

STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2024-2025.  
AS AMENDED BY CONTRACT DOCUMENTS.

CITY OF PORT ST. LUCIE ENGINEERING  
STANDARDS FOR LAND DEVELOPMENT,  
COMMERCIAL, RESIDENTIAL SUBDIVISIONS AND  
CAPITAL IMPROVEMENT PROJECTS.

AS AMENDED BY CONTRACT DOCUMENTS.

FOR DESIGN STANDARDS MODIFICATIONS CLICK ON  
"DESIGN STANDARDS" AT THE FOLLOWING WEB SITE:  
[HTTPS://WWW.FDOT.GOV/DESIGN/STANDARDPLANS/CURRENT](https://www.fdot.gov/design/standardplans/current)

FOR THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE  
CONSTRUCTION CLICK ON THE "SPECIFICATIONS" LINK AT THE  
FOLLOWING WEB SITE:  
[HTTPS://WWW.FDOT.GOV/PROGRAMMANAGEMENT/SPECS.SHTM](https://www.fdot.gov/programmanagement/specs.shtm)

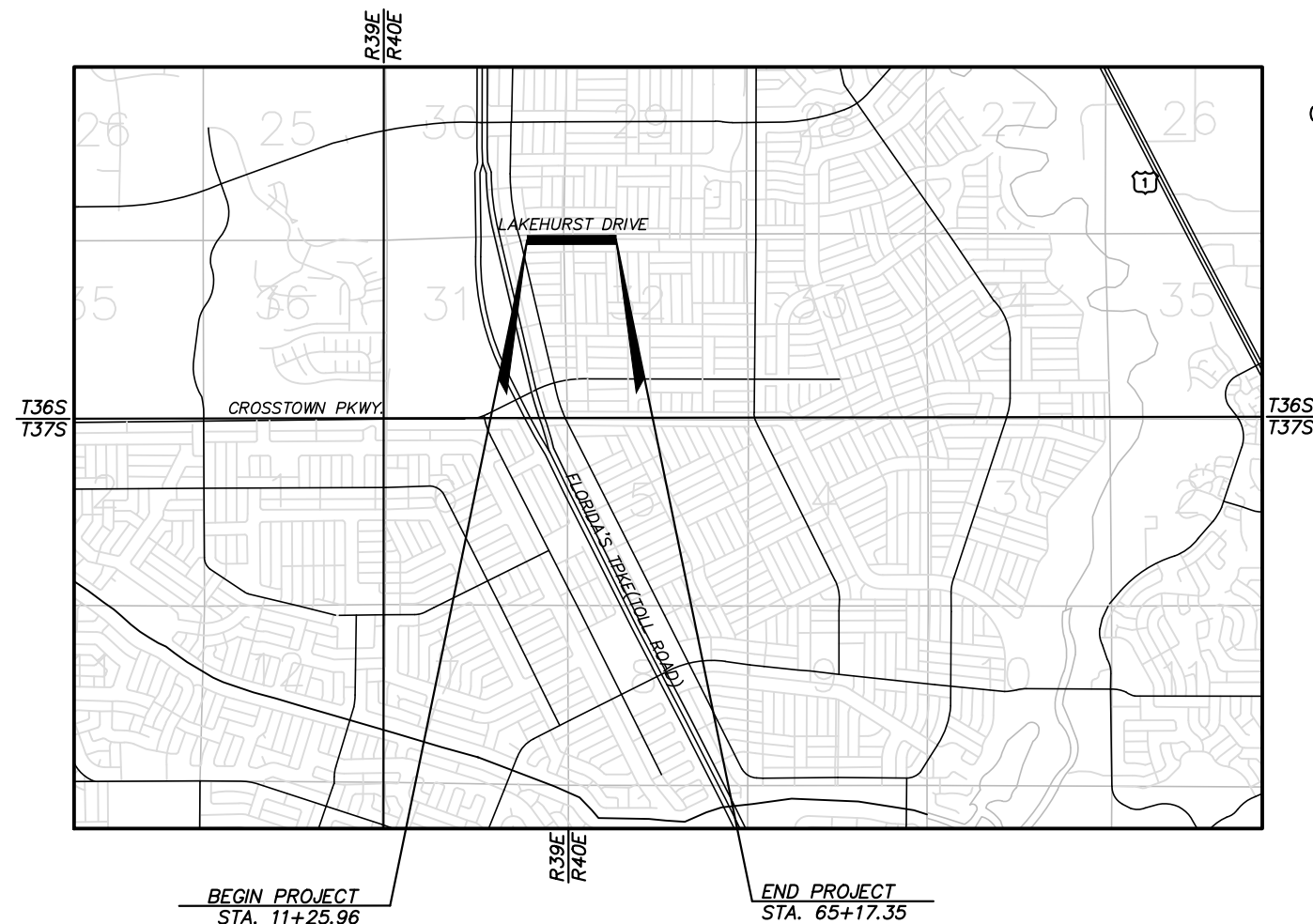
REVISIONS

PLANS PREPARED FOR  
CITY OF PORT ST. LUCIE, FLORIDA  
PUBLIC WORKS DEPARTMENT

CONTRACT PLANS

ST. LUCIE COUNTY

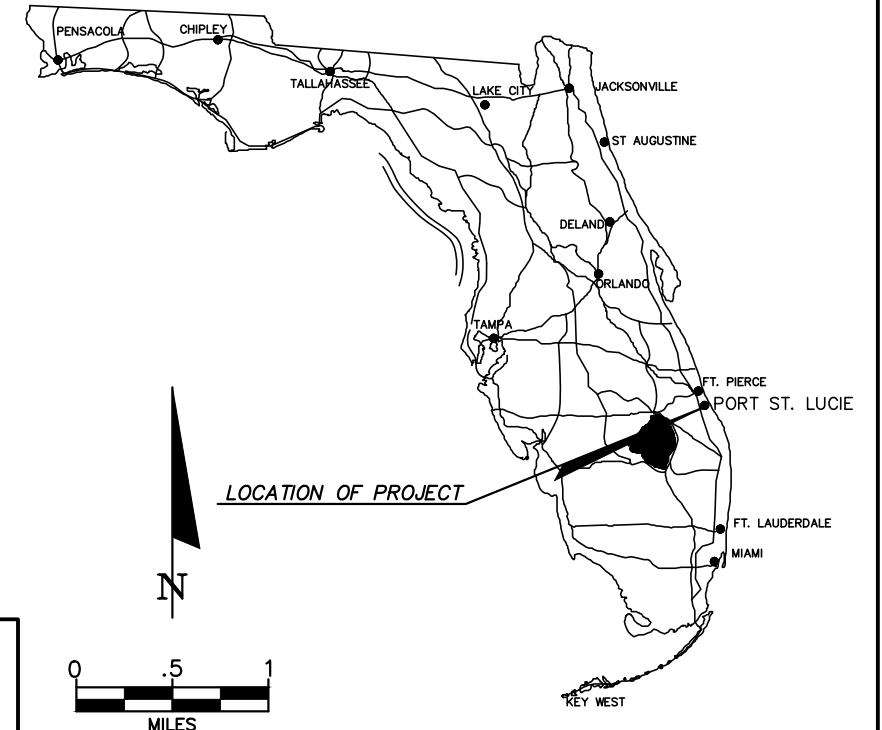
LAKEHURST DRIVE SIDEWALK PHASE 2



LENGTH OF PROJECT		
	LIN. FT.	MILES
SIDEWALK	4711.23 LF	0.892
BRIDGES	0 LF	0.00
NET LENGTH OF PROJ.	5391.39 LF	1.021
EXCEPTIONS		
GROSS LENGTH OF PROJ.	5391.39 LF	1.021

PROJECT MANAGER: EMILY SEITTER

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION



CONSTRUCTION SHOP DRAWINGS  
TO BE SUBMITTED TO:

STEFAN K. MATTHES, PE  
CULPEPPER & TERPENING, INC.  
2980 SOUTH 25TH STREET  
FORT PIERCE, FLORIDA 34981

PLANS PREPARED BY:



NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

100% SUBMITTAL  
DECEMBER 31, 2024

This item has been digitally signed and sealed by Stefan Karl Matthes, PE on 01/02/2025 using a Digital Signature. Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

SIDEWALK PLANS  
ENGINEER OF RECORD: STEFAN K. MATTHES  
P.E. NO. : 38723

FISCAL YEAR	SHEET NO.
24	1

C&T JOB NO.: 21-167











GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL AND HORIZONTAL DATUM OF 1988 (NAVD 1988).
2. ALL DRAINAGE INFRASTRUCTURE IS TO REMAIN UNLESS OTHERWISE NOTED.
3. ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
4. STATIONING AND OFFSETS REFER TO THE BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
5. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
6. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE CITY SURVEYOR JOHN M. ROSSI, WITHOUT DELAY, BY TELEPHONE (772) 871-5280.
7. EXISTING IMPACTED DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE RESTORED TO THE CITY OF PORT ST. LUCIE (CITY OF PSL) STANDARDS AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN THE PLANS. RESIDENTIAL ACCESS MUST BE MAINTAINED AT ALL TIMES. LIMITS OF DRIVEWAY REMOVAL ARE TO BE DETERMINED BY THE CONSTRUCTION ENGINEER AT THE TIME OF CONSTRUCTION. IN WHICH CASE, CONTRACTOR WILL NOTIFY HOMEOWNER 48 HOURS IN ADVANCE AND WILL COMPLETE DRIVEWAY RECONSTRUCTION WITHIN ONE WEEK OF THIS NOTIFICATION.
8. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR IS ISSUED A "NOTICE TO PROCEED".
9. DURING CONSTRUCTION, SHOULD ANY DRAINAGE STRUCTURES (INCLUDING PIPES) BE FOUND THAT ARE NOT SHOWN ON THE PLANS, NOTIFY THE ENGINEER IMMEDIATELY.
10. IN REFERENCE TO EXISTING UTILITIES AND UTILITY ADJUSTMENTS:
- A. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT HORIZONTAL AND VERTICAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" UTILITIES (NOT SHOWN ON THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNER(S) TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS AS REQUIRED.
- B. WATER AND SANITARY SEWER UTILITY WORK SHALL BE IN CONFORMANCE WITH ALL CODES, STANDARDS, AND ORDINANCES CURRENTLY ADOPTED BY THE STATE OF FLORIDA D.E.P. AND PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT (PSLUSD).
11. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND UTILITY OWNERS LISTED BELOW IN TWO BUSINESS DAYS (OR 10 DAYS IF ON THE JOB SITE)
- | COMPANY                    | CONTACT         | TEL. NO.       |
|----------------------------|-----------------|----------------|
| AT&T                       | MARK LINSOTT    | (321) 388-9376 |
| COMCAST CABLE              | TIM HENES       | (561) 325-2963 |
| FLORIDA CITY GAS           | JEREL RODRIGUEZ | (305) 835-3609 |
| FLORIDA POWER & LIGHT, CO. | DIANA VILLEGAS  | (772) 337-7011 |
| PSL PUBLIC WORKS DEPT.     | PAUL JOHNSON    | (772) 871-5100 |
| PSL UTILITY SYSTEMS DEPT.  | LANEY SOUTHERLY | (772) 873-6442 |
- (NOTE: IF THERE IS A TRAFFIC MONITORING SITE ON THE PROJECT OR WITHIN ONE MILE OF THE CONSTRUCTION, THE TRANSPORTATION STATISTICS OFFICE IN TALLAHASSEE SHALL BE ADDED TO THE LIST OF UTILITY OWNERS.)
12. IF DEWATERING PERMIT IS REQUIRED FOR THIS PROJECT, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A DEWATERING PERMIT OR WATER USE PERMIT AND ALLOW TIME FOR THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND/OR FDEP TO REVIEW AND APPROVE THE PERMIT PRIOR TO THE CONSTRUCTION START DATE.
13. WORK HOURS ARE FROM 7:00 AM TO DUSK, MONDAY-FRIDAY. WORK WILL NOT BE ALLOWED ON WEEKENDS OR HOLIDAYS OBSERVED BY THE CITY OF PORT ST. LUCIE UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE CITY. THE CONTRACTOR MUST RECEIVE WRITTEN PERMISSION FROM THE CITY AND PROVIDE AN APPROVED MOT PLAN BEFORE ANY LANE CLOSURES OCCUR.

14. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH EMILY SEITTER (772) 281-7411
15. EXISTING LANDSCAPE IMPROVEMENT THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS ARE TO BE RELOCATED PER THE DIRECTION OF THE ENGINEER OF RECORD.
16. LANE CLOSURES SHALL BE COORDINATED WITH ST. LUCIE COUNTY SCHOOL BOARD AND THE CITY OF PORT ST. LUCIE AT LEAST 48 HOURS IN ADVANCE. PROJECT LOCATION MAP WITH PROPOSED MOT PLAN SUBMITTED TO CPSL AT MINIMUM 14 DAYS IN ADVANCE OF ANY PROPOSED CLOSURE.
17. PROJECT LOCATION MAP WITH PROPOSED MOT PLAN SUBMITTED TO CPSL AT MINIMUM 14 DAYS IN ADVANCE OF ANY PROPOSED CLOSURE
18. IN REFERENCE TO THE PROPOSED DRAINAGE STRUCTURES & PIPE:
- A. CONCRETE PIPE CULVERT (R.C.P.) SHALL BE CLASS II, WALL B UNLESS OTHERWISE NOTED.
- B. ALL STORM STRUCTURE TOPS SHALL BE ADJUSTED AT TIME OF FINAL PAVEMENT OF CURB CONSTRUCTION. FINAL ADJUSTMENT OF ALL TOPS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- C. THE LENGTHS OF PIPE SHOWN HEREON HAVE BEEN DETERMINED BY CALCULATING THE DISTANCE BETWEEN THE "CENTERLINE" OF THE INLETS AND/OR MANHOLES.
- D. OFFSETS TO CURB INLETS ARE TO THE "CENTERLINE" OF THE INLETS.
19. ANY KNOWN OR SUSPECT HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECT HAZARDOUS MATERIAL FROM FURTHER ACCESS. THE PROJECT ENGINEER IS TO NOTIFY THE PROPER REGULATORY AUTHORITY OF THE DISCOVERY. THE PROPER REGULATORY AUTHORITY WILL ADVISE/DIRECT THE PROJECT ENGINEER IN THE INVESTIGATION, IDENTIFICATION AND/OR REMOVAL/REMEDICATION OF THE MATERIAL IN QUESTION AS NEEDED. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF SUSPECTED CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER, THE REGULATORY AUTHORITY WILL ADVISE THE PROJECT ENGINEER IN THESE MATTERS.
20. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY OF THE REQUEST TO EMILY SEITTER OF THE CITY OF PORT ST. LUCIE ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL PROVIDE EMILY SEITTER WITH A COPY OF THE SAFETY DATA SHEET (SDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE, AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. THE PROJECT ENGINEER SHALL COORDINATE WITH EMILY SEITTER PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AS HAZARDOUS MATERIALS, SUCH PRODUCTS DO NOT REQUIRE AN SDS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT
21. EXISTING MAILBOXES SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR REPLACING DAMAGED MAILBOXES WITH LIKE KIND AT NO ADDITIONAL COST. ADJUSTMENT OF EXISTING MAILBOXES DUE TO CONSTRUCTION OF DRIVEWAY APRONS AND WIDENING OF ROADWAY SHALL BE CONSIDERED AS INCIDENTAL TO THE PROJECT AND PAID FOR UNDER 102-1.
22. ALL WORK ASSOCIATED WITH THIS PROJECT IS TO BE PERFORMED WITHIN THE RIGHT-OF-WAY LIMITS AS DEPICTED ON THE PLAN SHEETS.
23. ALL CONCRETE SIDEWALK JOINTS SHALL BE TOOLED WITHOUT EXPANSION JOINTS.
24. ALL WORK, CONCRETE AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION, INCLUDING ALL REVISIONS, OF THE FOLLOWING STANDARDS AND PUBLICATIONS:
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)
  - AMERICAN CONCRETE INSTITUTE (ACI)
  - AMERICAN SOCIETY FOR TESTING MATERIAL (ASTM)
  - AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)
  - FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS - FY 2024-25
  - FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION - FY 2024-25
  - FDOT STRUCTURES STANDARD INDEX
  - FDOT APPROVED PRODUCT LIST (APL)
25. ALL DISTURBED AREAS SHALL BE REPAIRED TO EXISTING PRE-CONSTRUCTION CONDITIONS OR BETTER. THE CONTRACTOR SHALL ONLY BE ENTITLED FOR PAYMENT OF AUTHORIZED AREAS WITHIN THE PROJECT WORK LIMITS. THE PROJECT WORK LIMITS SHALL BE ESTABLISHED BY THE CITY OF PORT ST. LUCIE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE UNNECESSARY DAMAGE. ALL DAMAGED AREAS OUTSIDE THE PROJECT WORK LIMITS MUST BE REPAIRED TO EXISTING CONDITIONS OR BETTER, AT THE COST OF THE CONTRACTOR, PRIOR TO FINAL PAYMENT.
26. ALL SOD SHALL HAVE A WARRANTY OF 45 DAYS AFTER THE FINAL COMPLETION DATE OF THE PROJECT. SOD REPLACED BY THE CONTRACTOR MUST BE THE SAME TYPE AS THAT REMOVED.

27. THE INVERTS OF THE DRIVEWAY CULVERTS ARE THE CONTROLLING PROFILE GRADE FOR THE SWALES.
28. IN SITUATIONS WHERE THE TYPICAL SWALE SECTION DOES NOT WORK, PLEASE PROVIDE A PROPOSED TYPICAL FOR THE CITY ENGINEER TO APPROVE. THERE MAY SEVERAL IN EACH PROJECT DEPENDING ON A PARTICULAR CIRCUMSTANCE.
29. EXISTING SWALE LINER IN PROTECT LIMITS TO BE RETAINED UNLESS OTHERWISE NOTED.
30. DRIVEWAY CULVERT END TREATMENT TO BE REPLACED WITH LIKE KIND.

LEGEND

- |  |                                      |
|--|--------------------------------------|
| --- BT ---   | EXIST. BURIED TELEPHONE              |
| --- OE ---   | EXIST. OVERHEAD ELECTRIC & UTILITIES |
| --- LPM ---  | EXIST. LOW PRESSURE MAIN             |
| --- FM ---   | EXIST. SANITARY FORCE MAIN           |
| --- SS ---   | EXIST. SANITARY SEWER SERVICE        |
| --- W ---  | EXIST. WATER MAIN                    |
| --- WS ---   | EXIST. WATER SERVICE                 |
|   | EXIST. PALM TREE                     |
|   | EXIST. PINE TREE                     |
|   | EXIST. OAK TREE                      |
|   | EXIST. EXOTIC TREE                   |
|   | EXIST. BUSH                          |
|   | EXIST. FIRE HYDRANT                  |
|   | EXIST. UTILITY POLE                  |
|  | EXIST. SINGLE SIGN                   |

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

R E V I S I O N S						C&T JOB NO. 21-167		 <div>CULPEPPER &amp; TERPENING INC 2980 SOUTH 25th STREET • FORT PIERCE, FLORIDA 34981 PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286</div>	CITY OF PORT ST. LUCIE		GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DESIGNED BY	DRAWN BY		PROJECT NAME	FINANCIAL PROJECT ID		2
						SKM 07/24/24	YW 07/25/24		LAKEHURST DRIVE SIDEWALK PHASE 2			
						CHECKED BY	CHECKED BY					
						SKM 07/26/24						
						ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723						

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
101-1A	MOBILIZATION/GENERAL CONDITIONS/BONDS	LS	1
101-1B	PRE-CONSTRUCTION VIDEO	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-10-3	SEDIMENT BARRIER	LF	4,450
104-11	FLOATING TURBIDITY BARRIER	LF	71
104-18	INLET PROTECTION SYSTEM	EA	14
110-1	CLEARING & GRUBBING	AC	3.2
110-4-10A	EXISTING CONCRETE REMOVAL	SY	2,704
110-4-10B	EXISTING BRICK PAVER DRIVEWAY REMOVAL	SY	394
120-1	REGULAR EXCAVATION	CY	1,878
120-6	EMBANKMENT	CY	658
425-1-521	INLETS, DITCH BOTTOM, TYPE C,<10'	EA	1
425-1-910	INLETS, CLOSED FLUME	EA	1
425-5	MANHOLE, ADJUST	EA	1
430-175-215	PIPE CULVERT,CAP,OTHER-ELIP/ARCH, 13"×17"S/CD	LF	1,439
430-175-218	PIPE CULVERT, RCP,OTHER-ELIP/ARCH, 14"×23"S/CD	LF	134
430-518-102	STRAIGHT CONCRETE ENDWALLS, 14"X23", SINGLE, 0 DEGREES, ELLIPTICAL	EA	2
514-72	SWALE LINER, BLACK POLY, 1/4 SECTION OF 12" ID PIPE	LF	3,197
520-1-10A	CONCRETE CURB & GUTTER, TYPE F	LF	85
520-1-10B	CONCRETE CURB & GUTTER, DROP CURB	LF	41
522-1	CONCRETE SIDEWALK/PADS , 4" THICK	SY	2,957
522-2A	CONCRETE SIDEWALK/PADS , 6" THICK	SY	2,564
522-2B	CONCRETE SIDEWALK/PADS , 6" THICK (SHALLOW PIPE COVER)	SY	346
527-2	DETECTABLE MAT	SF	189
570-1-2	PERFORMANCE TURF, SOD	SY	10,771
700-1-11A	SINGLE POST SIGN, F&I GM, < 12 SF (R1-1 STOP)	EA	8
700-1-11B	SINGLE POST SIGN, F&I GM, < 12 SF (R2-1 SPEED LIMIT)	EA	1
700-1-11C	SINGLE POST SIGN, F&I GM, < 12 SF (W3-1 STOP AHEAD)	EA	1
700-1-600	SINGLE POST SIGN, REMOVE	EA	10
706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	28
711-11-221	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	LF	700
711-14-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF	698
711-14-124	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" STOP BAR	LF	349
1080-214-00	UTILITY FIXTURE, METER BOX, RELOCATE	EA	9
1080-215-00A	UTILITY FIXTURE, WATER VALVE, ADJUST	EA	5
1080-215-00B	UTILITY FIXTURE, FIRE HYDRANT & VALVE, ADJUST	EA	5
1080-215-00C	UTILITY FIXTURE, METER BOX, ADJUST	EA	10
1080-215-00D	UTILITY FIXTURE, SANITARY VALVE, ADJUST	EA	5

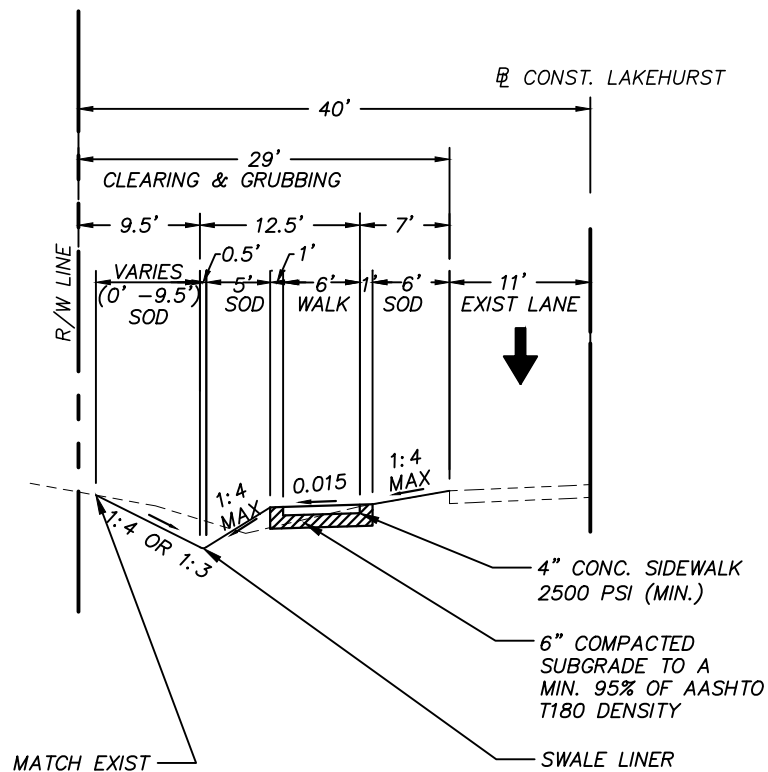
PAY ITEM NOTES

102-1	INCLUDES ALL ITEMS FOR MAINTENANCE OF TRAFFIC WHICH ARE NOT INCLUDED FOR PAYMENT UNDER SEPARATE ITEMS. INCLUDES PEDESTRIAN MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH THE SPECIFICATIONS. INCLUDES MAINTENANCE OF EXISTING MAIL BOXES.
104-10-3	ESTIMATED FOR PREVENTION. CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION AND ARE TO BE USED AT LOCATIONS DESIGNATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. INCLUDES FLOATING TURBIDITY BARRIER, SILT FENCE TYPE III.
110-1	INCLUDES REMOVAL AND DISPOSAL OF EXISTING DRAINAGE STRUCTURES & PIPES; SWALE LINERS; CULVERTS; SIGNS; FENCE; AND TREE TRIMMING. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN, UNLESS OTHERWISE NOTED.
110-4-10	FOR THE PAVERS DRIVEWAY THE QUANTITIES DOES NOT INCLUDE REINSTALLATION. REINSTALLATION TO BE COMPLETED BY OTHERS.
120-6	INCLUDES ALL EARTHWORK EMBANKMENT FOR ROADWAY, DRIVEWAY, CULVERT STRUCTURE, & INCLUDES FINAL GRADING SHAPING AS NECESSARY FOR FINAL RESTORATION.
522-2A	THE DRIVEWAY DECORATIVE CULVERT TREATMENT REPLACEMENT SHALL BE PAID FOR UNDER THE SY UNIT PRICE OF THIS PAY ITEM.
522-2B	SHALL INCLUDE ADDITIONAL CONCRETE AND REINFORCING BARS FOR REDUCED COVER DRIVEWAY PIPE INSTALLATION.
711-14-123 711-14-124	THE COST OF REMOVING THE EXISTING PAVEMENT MARKING THAT ARE IN CONFLICT WITH PLAN IS INCLUDED AS PART OF THESE PAY ITEMS.
1080-215-00	INCLUDES THE REQUIRED ADJUSTMENTS TO THE EXISTING UTILITY VALVES AND PADS TO BE CONSISTENT WITH THE NEW SIDEWALK GRADE ELEVATIONS.

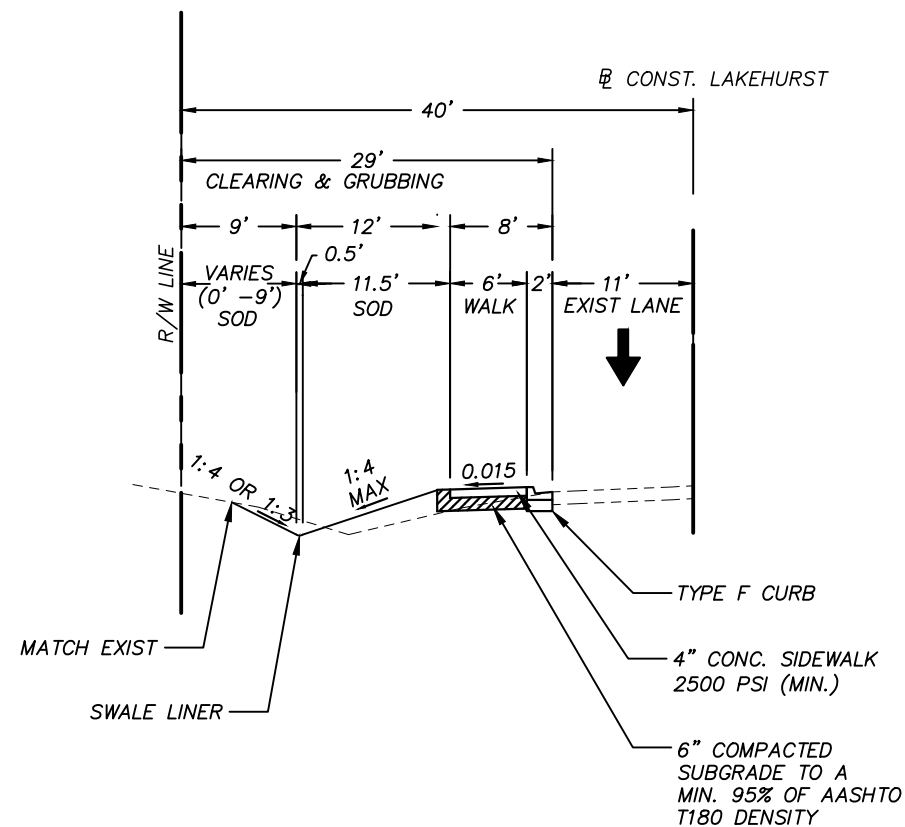
STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

R E V I S I O N S						C&T JOB NO. 21-167		 <div><b>CULPEPPER &amp; TERPENING INC</b> 2980 SOUTH 25th STREET • FORT PIERCE, FLORIDA 34981 PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286</div>	CITY OF PORT ST. LUCIE		SUMMARY OF PAY ITEMS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DESIGNED BY	DRAWN BY		PROJECT NAME	FINANCIAL PROJECT ID		3
						SKM 07/24/24	YW 07/25/24		LAKEHURST DRIVE SIDEWALK PHASE 2			
						CHECKED BY	CHECKED BY					
						SKM 07/26/24						
						ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723						

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - TYPICAL SECTION.dwg Plotted: 12/31/2024 3:24 PM By: YUANQI WANG



PROPOSED SECTION ①  
TYPICAL SECTION  
LAKEHURST DRIVE SIDEWALK  
STA. 11+25.96 TO 50+69.33  
STA. 51+96.10 TO 64+00.94  
DESIGN SPEED = 35 MPH



PROPOSED SECTION ②  
TYPICAL SECTION  
LAKEHURST DRIVE SIDEWALK  
STA. 50+69.33 TO 51+96.10  
DESIGN SPEED = 35 MPH

NOTES:

1. SEE PLAN AND/OR CROSS SECTION SHEETS FOR DIMENSIONS, ELEVATIONS AND SLOPES INDICATED AS "VARIES."
2. MAXIMUM SIDEWALK SLOPE IS 2.0%.
3. FOR SOD AND PAVEMENT DETAIL, SOD WILL BE KEPT 0.5" BELOW PAVEMENT.

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS						C&T JOB NO. 21-167	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DESIGNED BY	DRAWN BY
						SKM 07/24/24	YW 07/25/24
						CHECKED BY	CHECKED BY
						SKM 07/26/24	
						ENGINEER OF RECORD:	
						STEFAN K. MATTHES, P.E. NO. 38723	

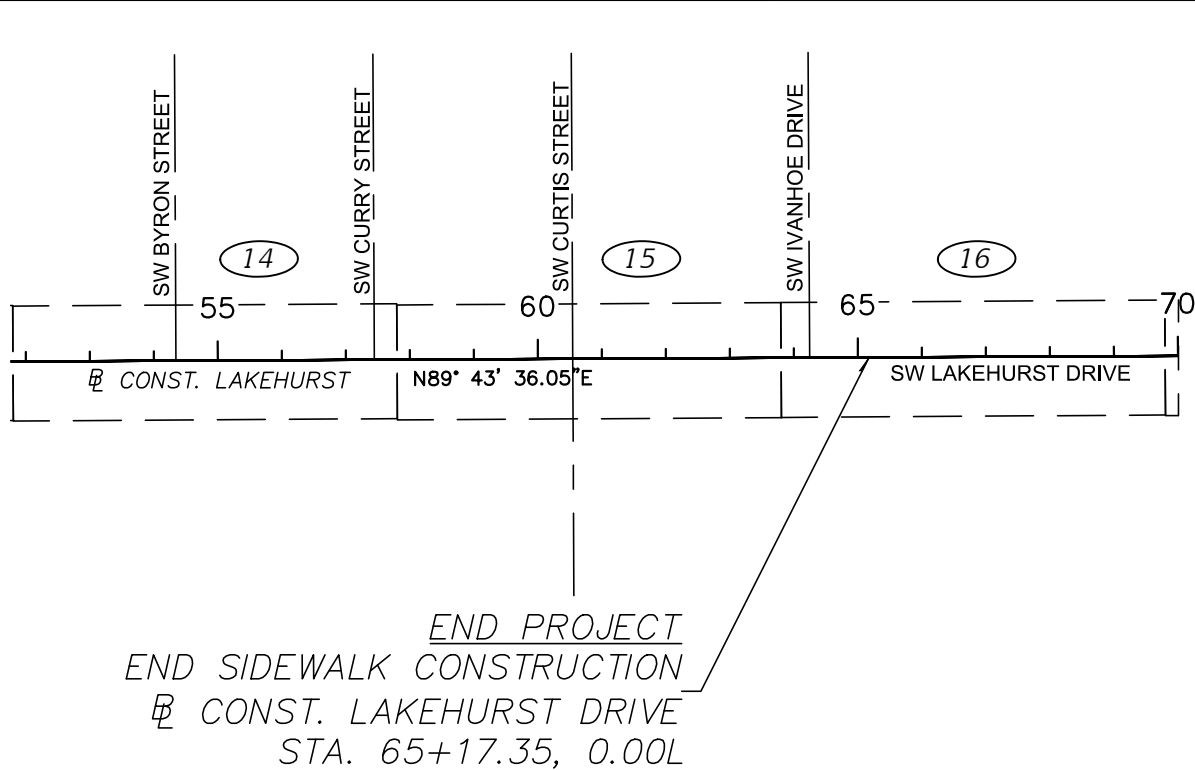
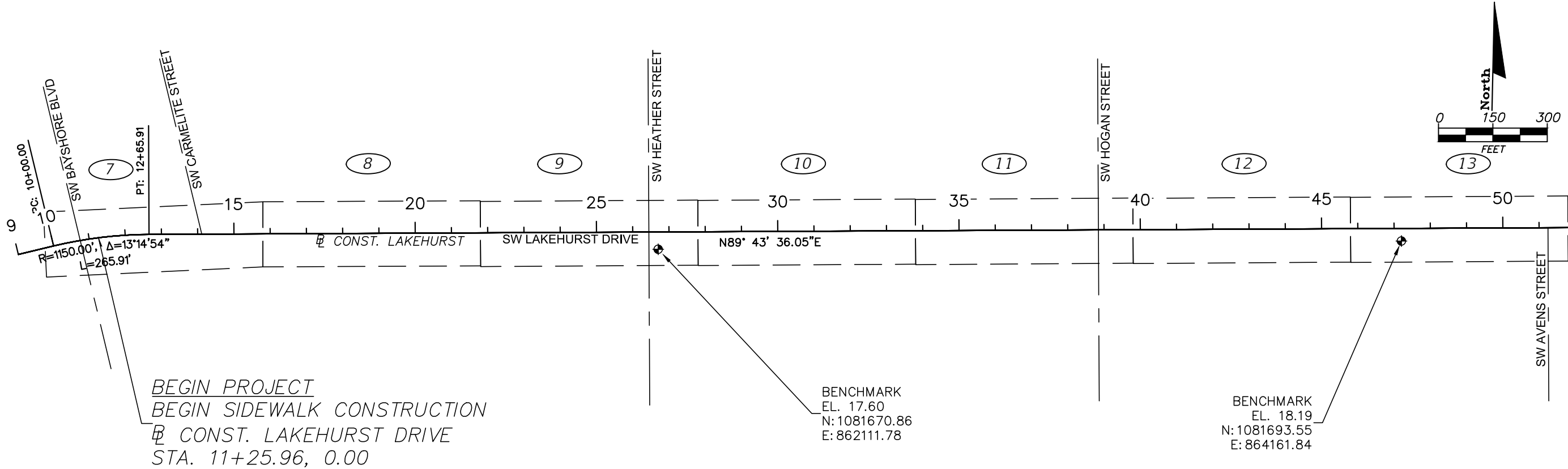


CITY OF PORT ST. LUCIE		TYPICAL SECTION	SHEET NO. 4
PROJECT NAME	FINANCIAL PROJECT ID		
LAKEHURST DRIVE SIDEWALK PHASE 2			





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**LEGEND**

XX SHEET NUMBERS

BENCHMARKS

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
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CHECKED BY SKM 07/26/24	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



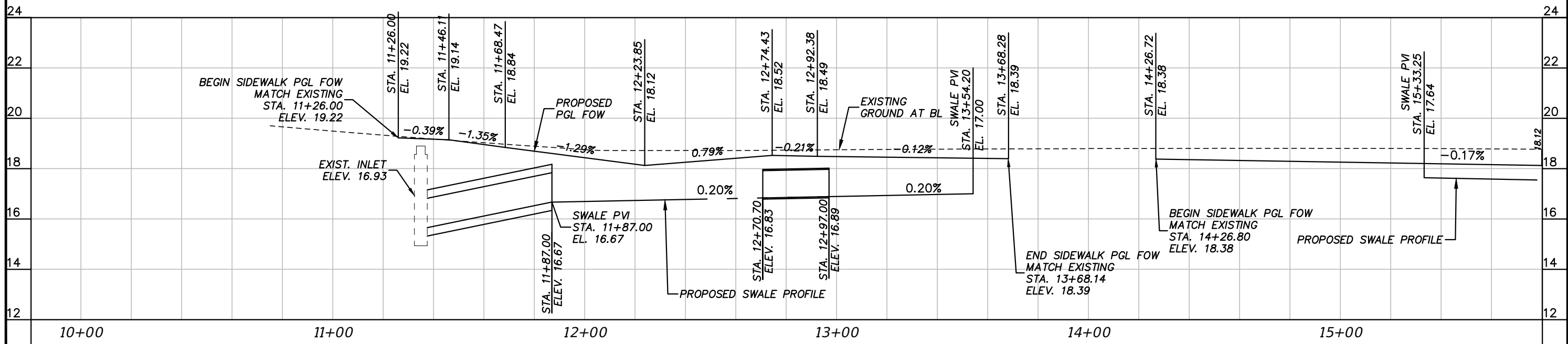
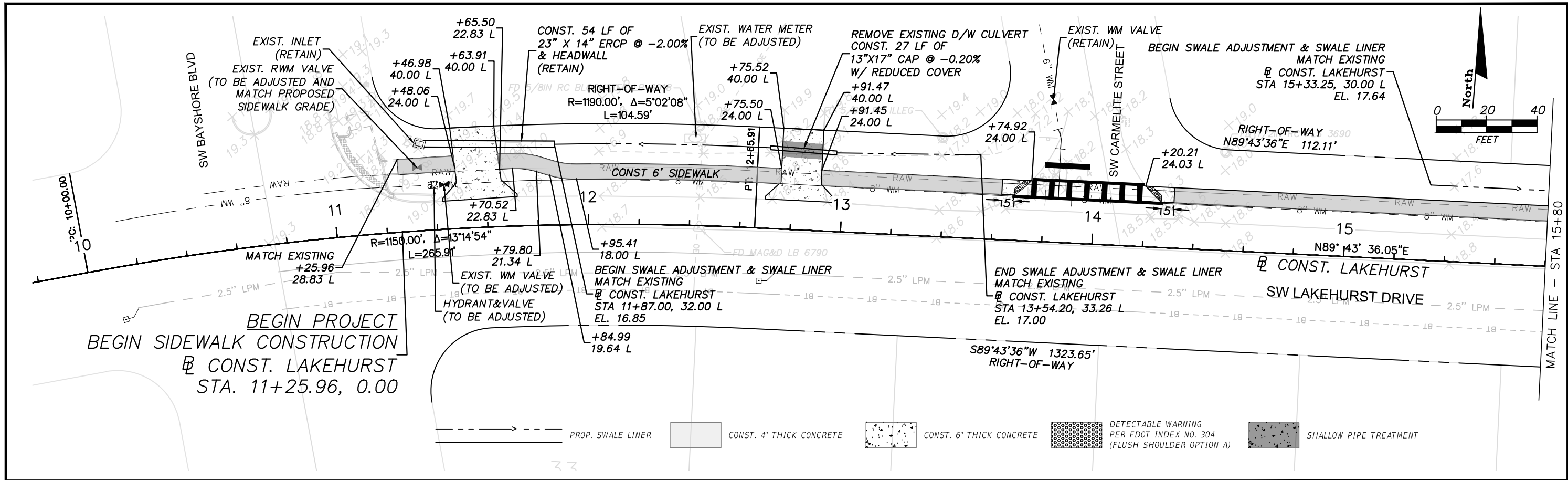
**CULPEPPER & TERPENING INC**  
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CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

PROJECT LAYOUT	

SHEET NO.
6

P:\Proj\2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - PLAN.dwg Plotted: 12/31/2024 3:25 PM By: YUANQI WANG



H. SCALE: 1" = 40'  
V. SCALE: 1" = 4'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY SKM 07/26/24	CHECKED BY	
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723		

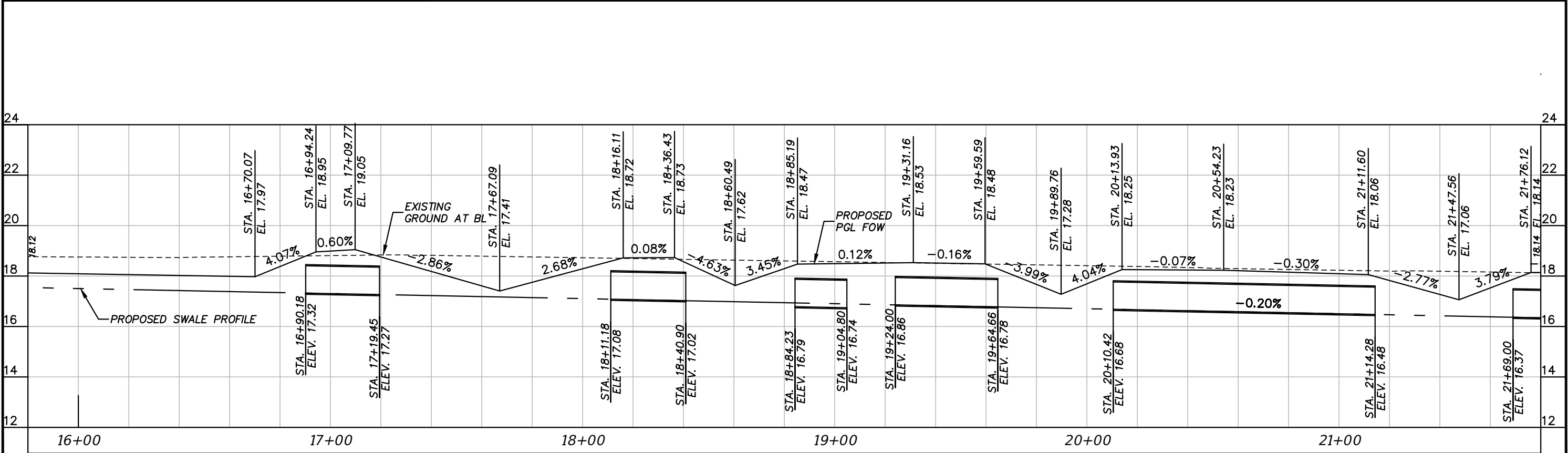
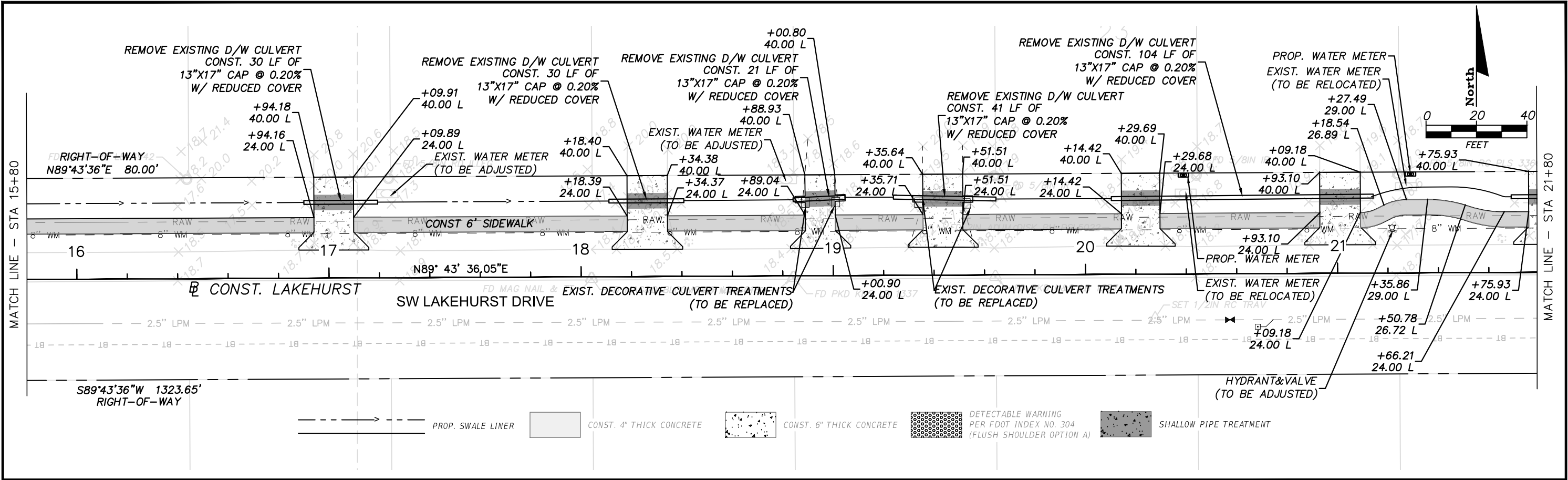


CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

PLAN SHEETS

SHEET NO.

7




H. SCALE: 1" = 40'  
V. SCALE: 1" = 4'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
DESIGNED BY SKM 07/24/24	DRAWN BY YW 07/25/24
CHECKED BY SKM 07/26/24	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



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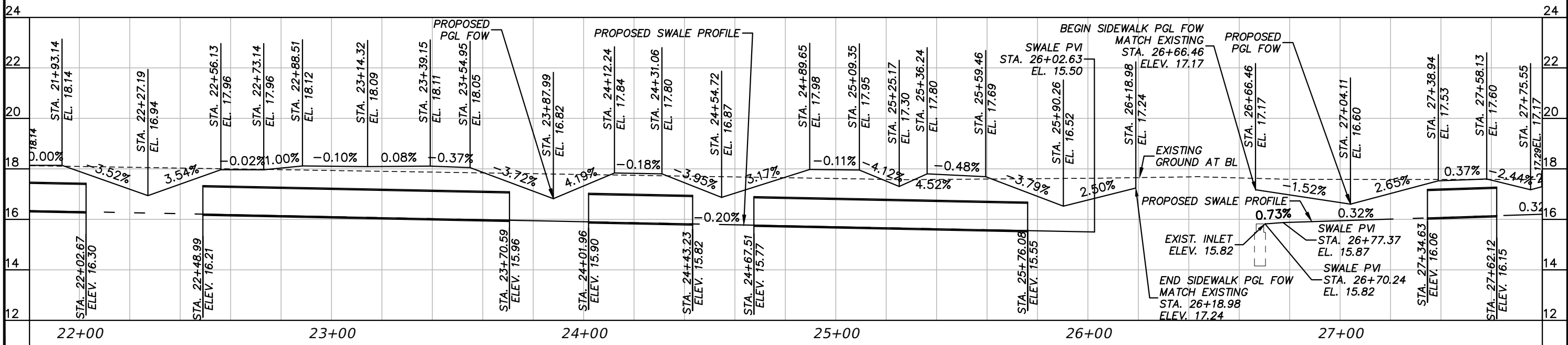
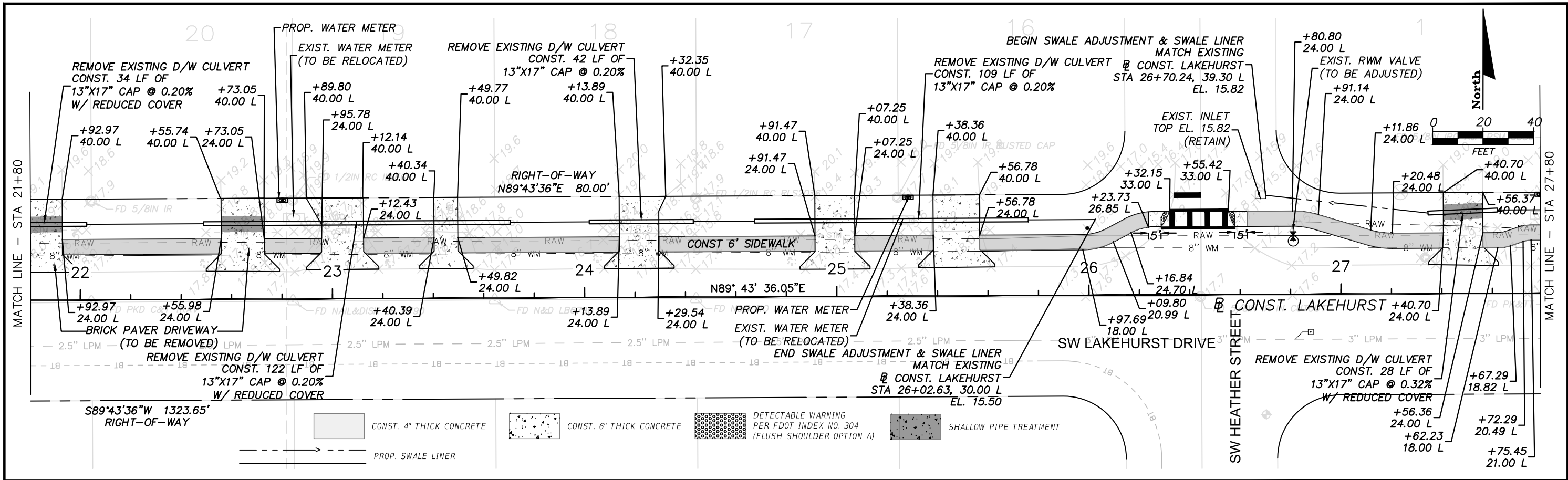
CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

PLAN SHEETS

SHEET NO.  
8



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H. SCALE: 1" = 40'  
V. SCALE: 1" = 4'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY SKM 07/26/24	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

**CULPEPPER & TERPENING INC**

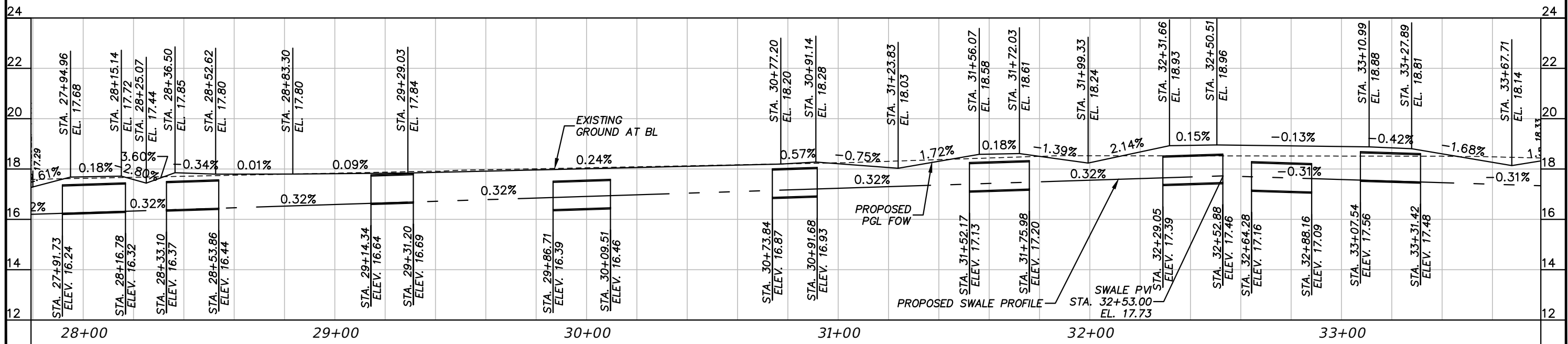
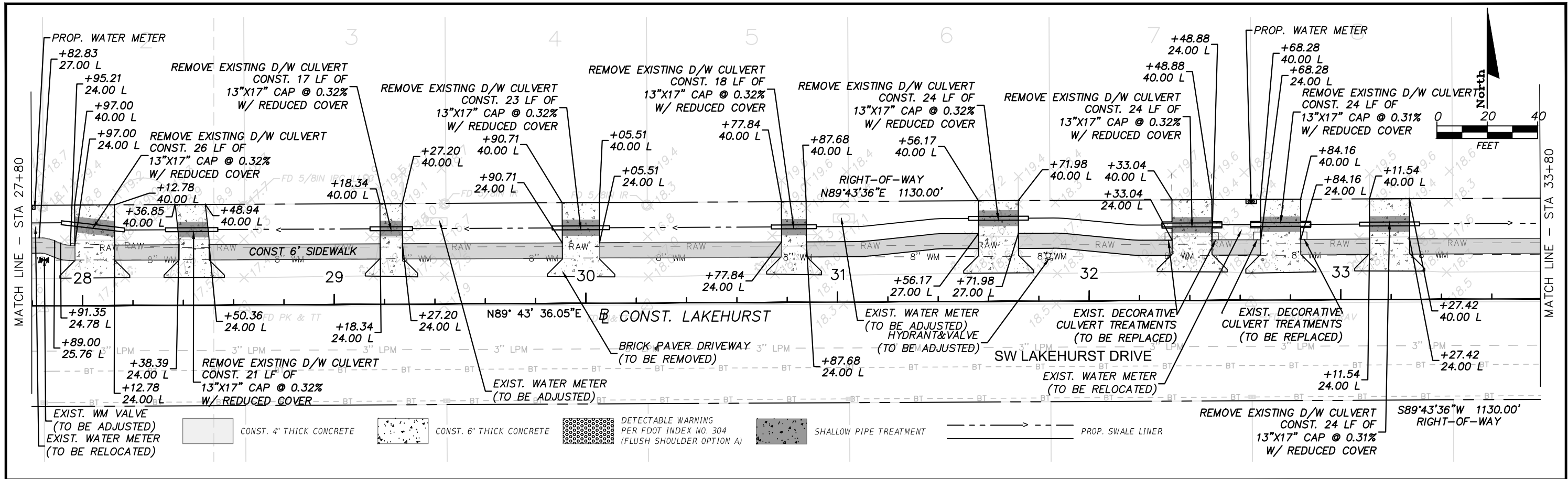
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CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

PLAN SHEETS	
SHEET NO. 9	



P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - PLAN.dwg Plotted: 12/31/2024 3:26 PM By: YUANQI WANG

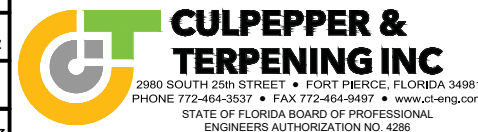


H. SCALE: 1" = 40'  
V. SCALE: 1" = 4'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
DESIGNED BY	DRAWN BY
SKM 07/24/24	YW 07/25/24
CHECKED BY	CHECKED BY
SKM 07/26/24	
ENGINEER OF RECORD:	
STEFAN K. MATTHES, P.E. NO. 38723	



CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE	
SIDEWALK PHASE 2	

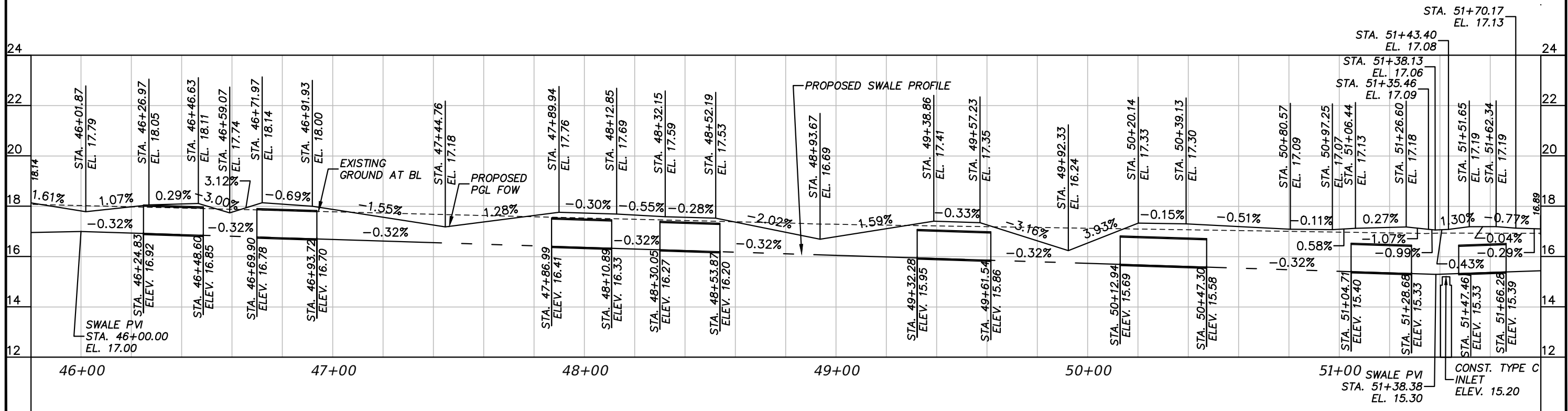
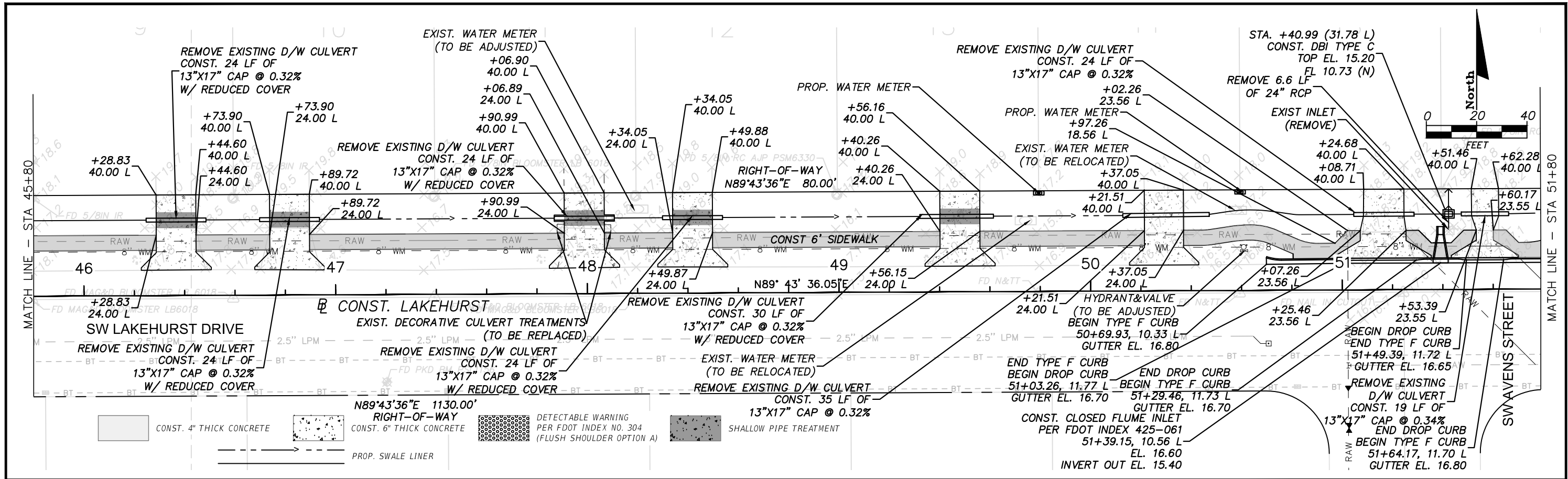
PLAN SHEETS	
SHEET NO. 10	







P:\Proj\2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - PLAN.dwg Plotted: 12/31/2024 3:26 PM By: YUANQI WANG



H. SCALE: 1" = 40'  
V. SCALE: 1" = 4'

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FL. REG. NO. 38723

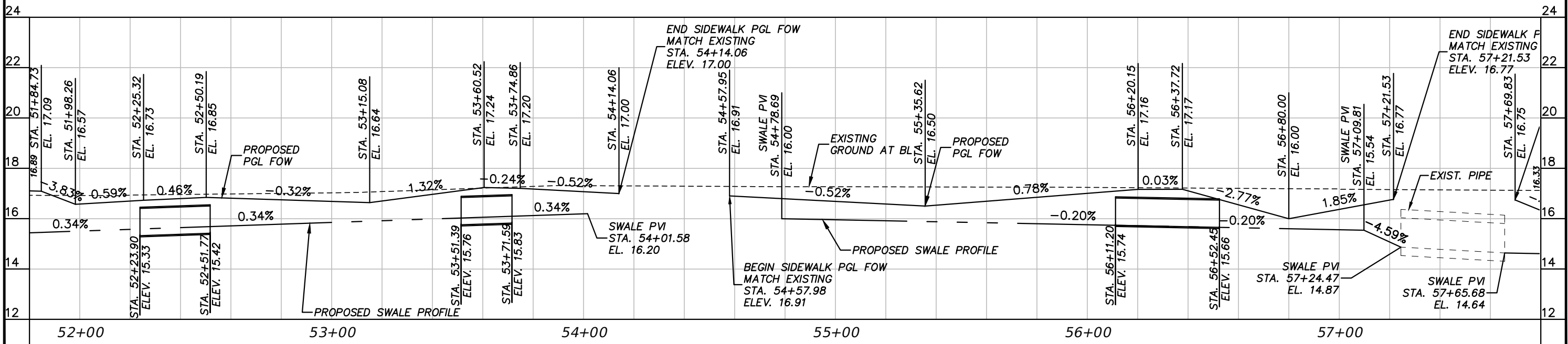
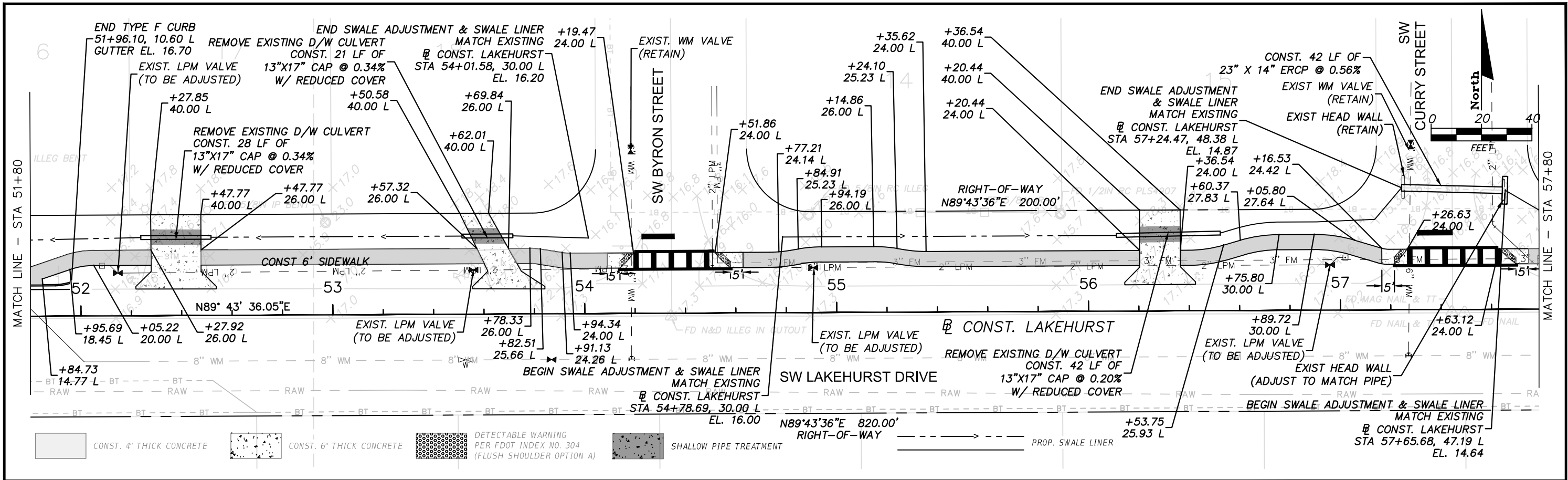
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	DESIGNED BY SKM 07/24/24	DRAWN BY YW 07/25/24
CHECKED BY SKM 07/26/24	CHECKED BY	
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723		



1 "	CITY OF PORT ST. LUCIE		PLAN SHEETS	SHEET NO.
	PROJECT NAME	FINANCIAL PROJECT ID		13
	LAKEHURST DRIVE SIDEWALK PHASE 2			

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - PLAN.dwg Plotted: 12/31/2024 3:26 PM By: YUANQI WANG




H. SCALE: 1" = 40'  
V. SCALE: 1" = 4'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



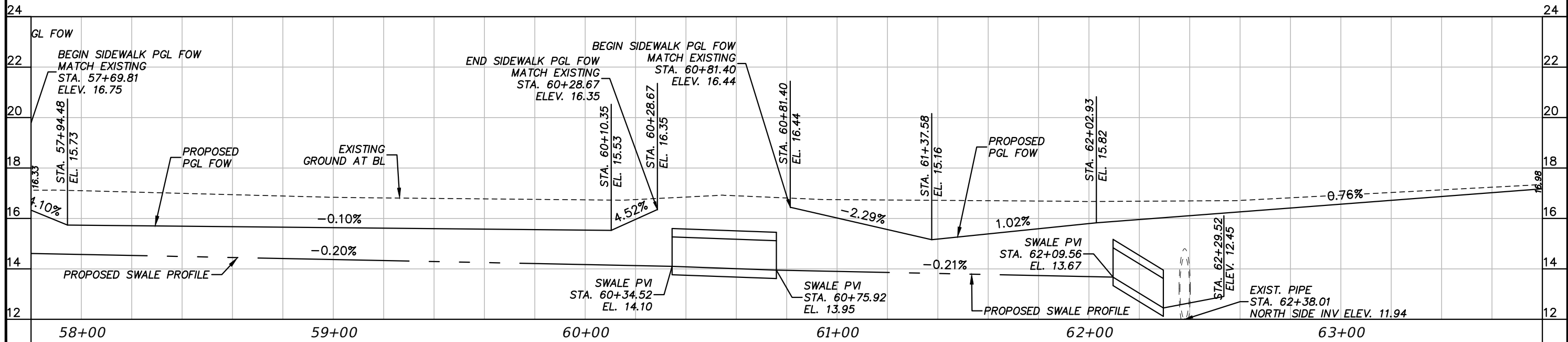
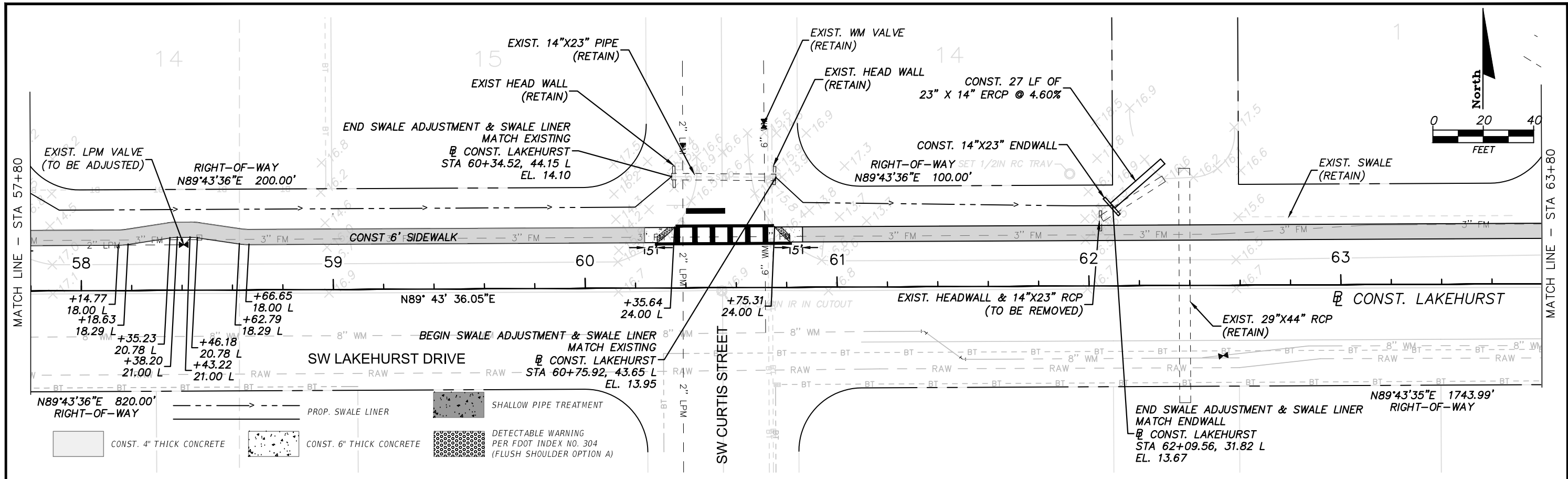
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CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

PLAN SHEETS

SHEET NO.  
14

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - PLAN.dwg Plotted: 12/31/2024 3:47 PM By: YUANQI WANG




H. SCALE: 1" = 40'  
V. SCALE: 1" = 4'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



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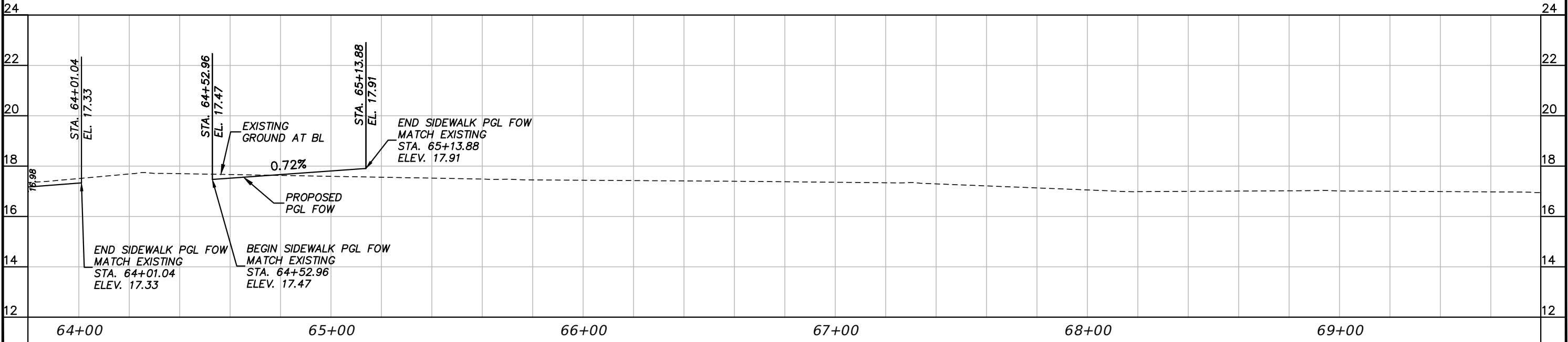
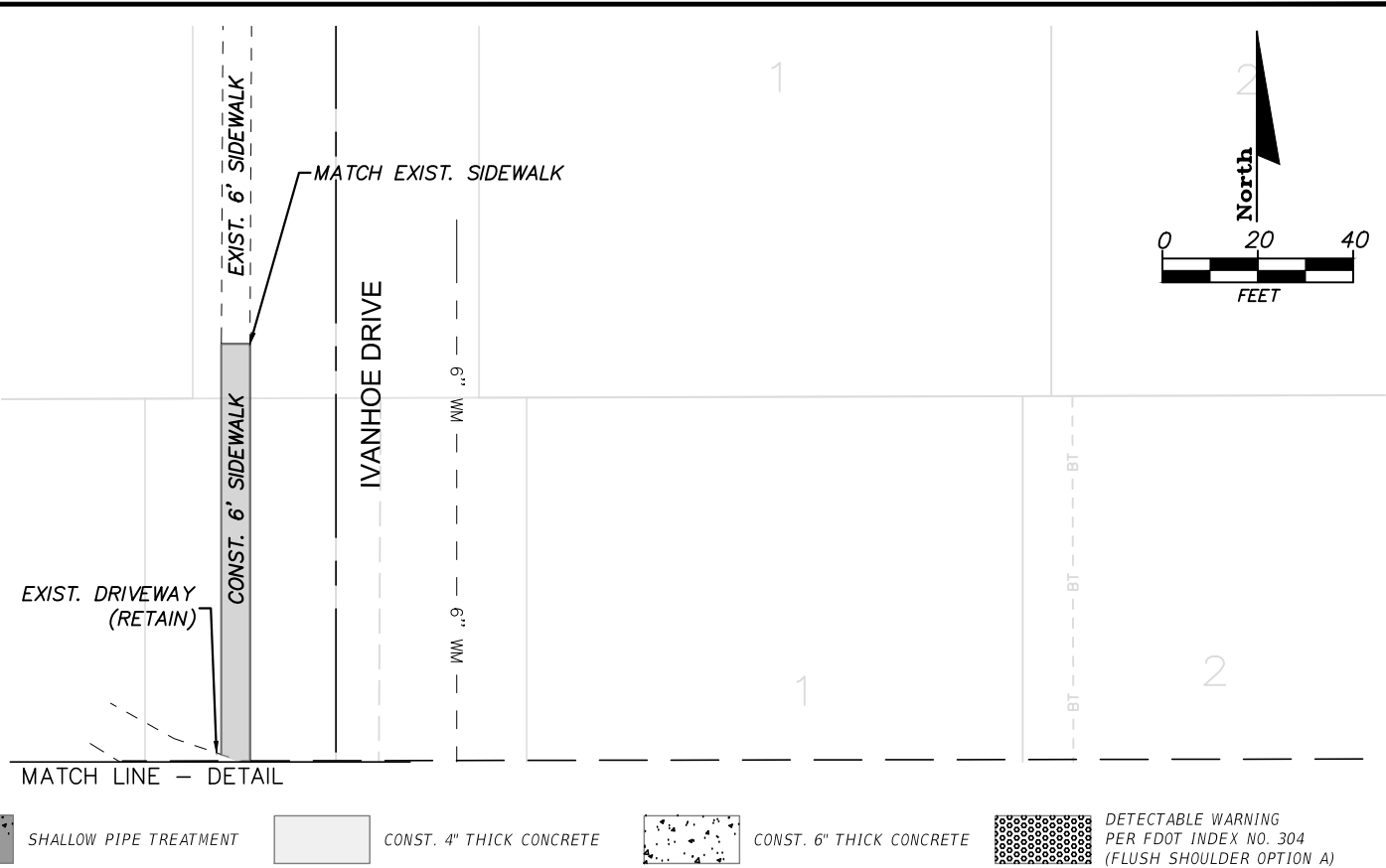
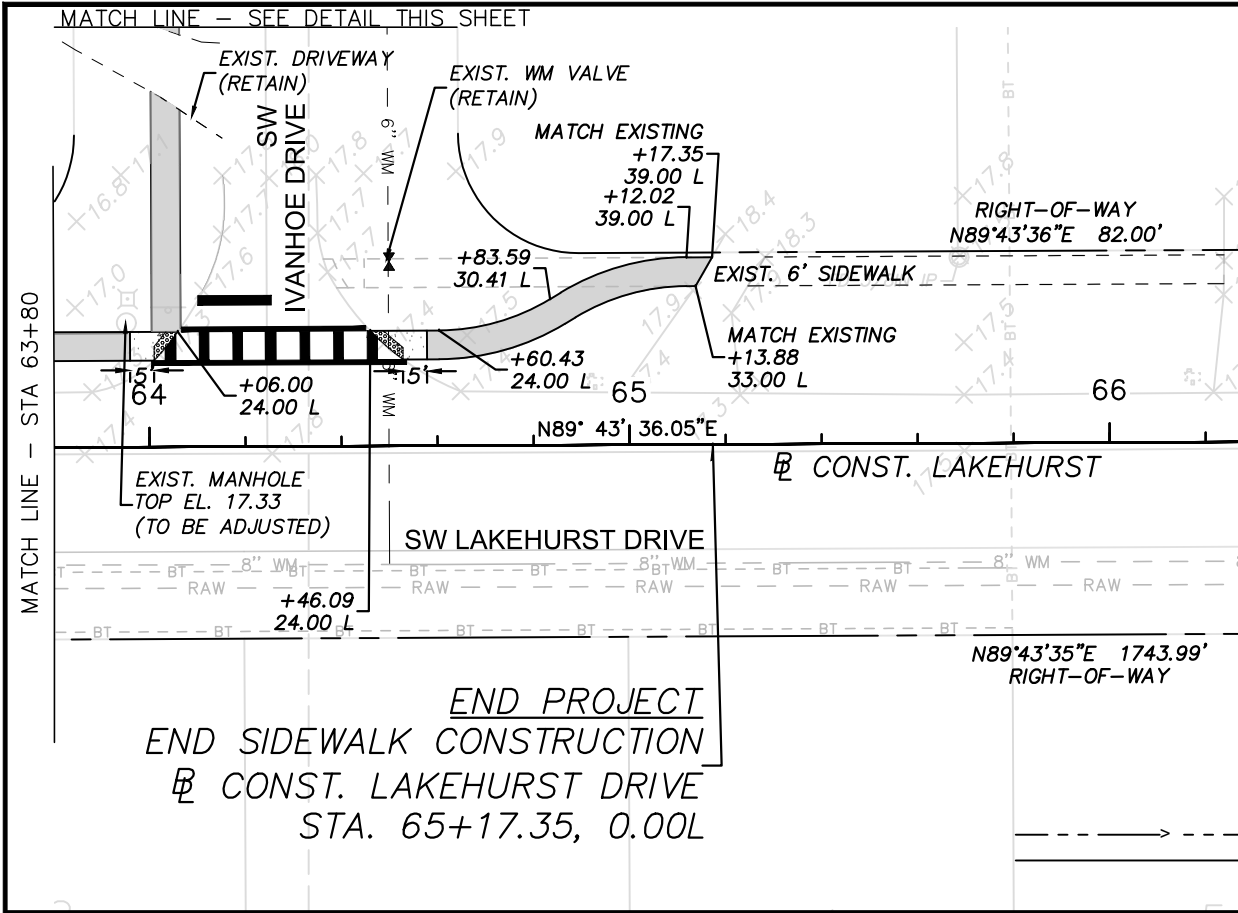
CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

PLAN SHEETS	

SHEET NO.
15



P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - PLAN.dwg Plotted: 12/31/2024 3:27 PM By: YUANQI WANG



H. SCALE: 1" = 40'  
V. SCALE: 1" = 4'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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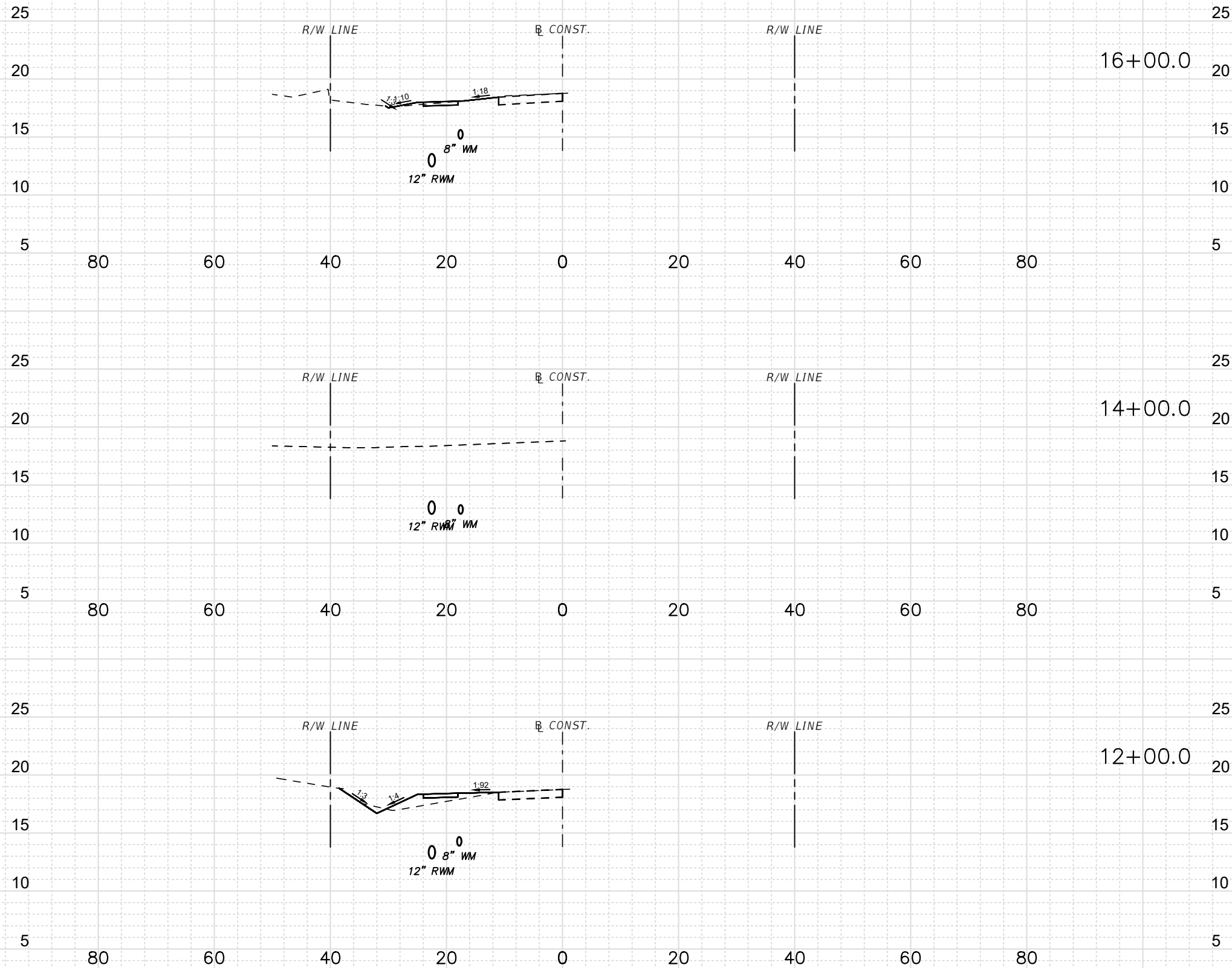
CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

PLAN SHEETS

SHEET NO.

16

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:27 PM By: YUANQI WANG




H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		5.66		0.60	
			20.96		2.21
		0.00		0.00	
			18.55		32.41
		4.99		8.69	
			0.00		0.00

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

R E V I S I O N S					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
			C&T JOB NO. 21-167		
			DESIGNED BY SKM 07/22/24		
			DRAWN BY YW 07/25/24		
			CHECKED BY SKM 07/26/24		
			ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723		



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CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

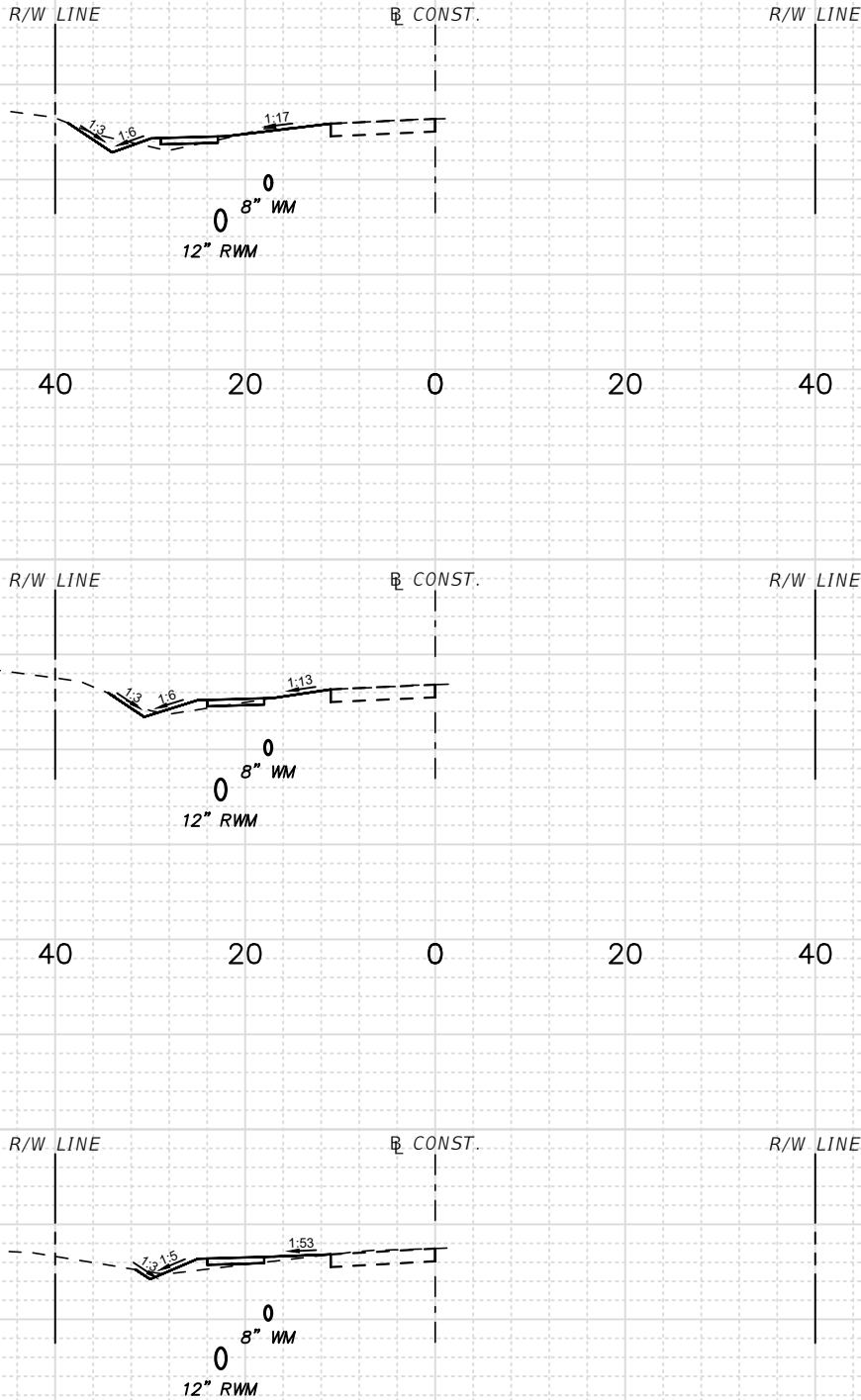
CROSS SECTION

SHEET NO.
17



P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:27 PM By: YUANQI WANG

25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80



21+40.0

20+00.0

18+00.0

H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		6.98		1.93	
			32.37		9.82
		5.51		1.86	
			37.91		19.21
		4.73		3.33	
			38.48		14.53

STEFAN K. MATTHES, P.E.  
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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



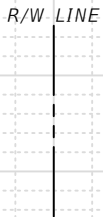
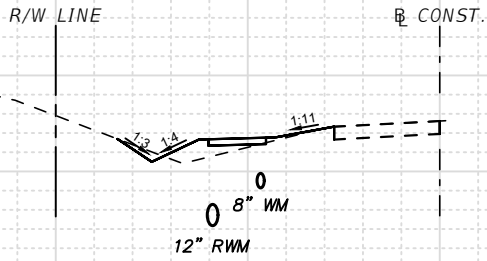
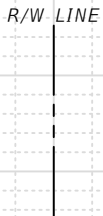
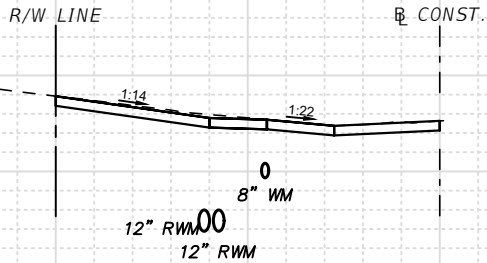
CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

CROSS SECTION

SHEET  
NO.  
18

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:27 PM By: YUANQI WANG

25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80



28+00.0

26+00.0

23+80.0

25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80

H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		22.06		0.00	
		100.04		20.60	
		4.95		5.56	
		107.25		37.96	
		21.38		3.76	
		126.04		25.26	

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DESIGNED BY SKM 07/22/24	DRAWN BY YW 07/25/24
CHECKED BY SKM 07/26/24	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



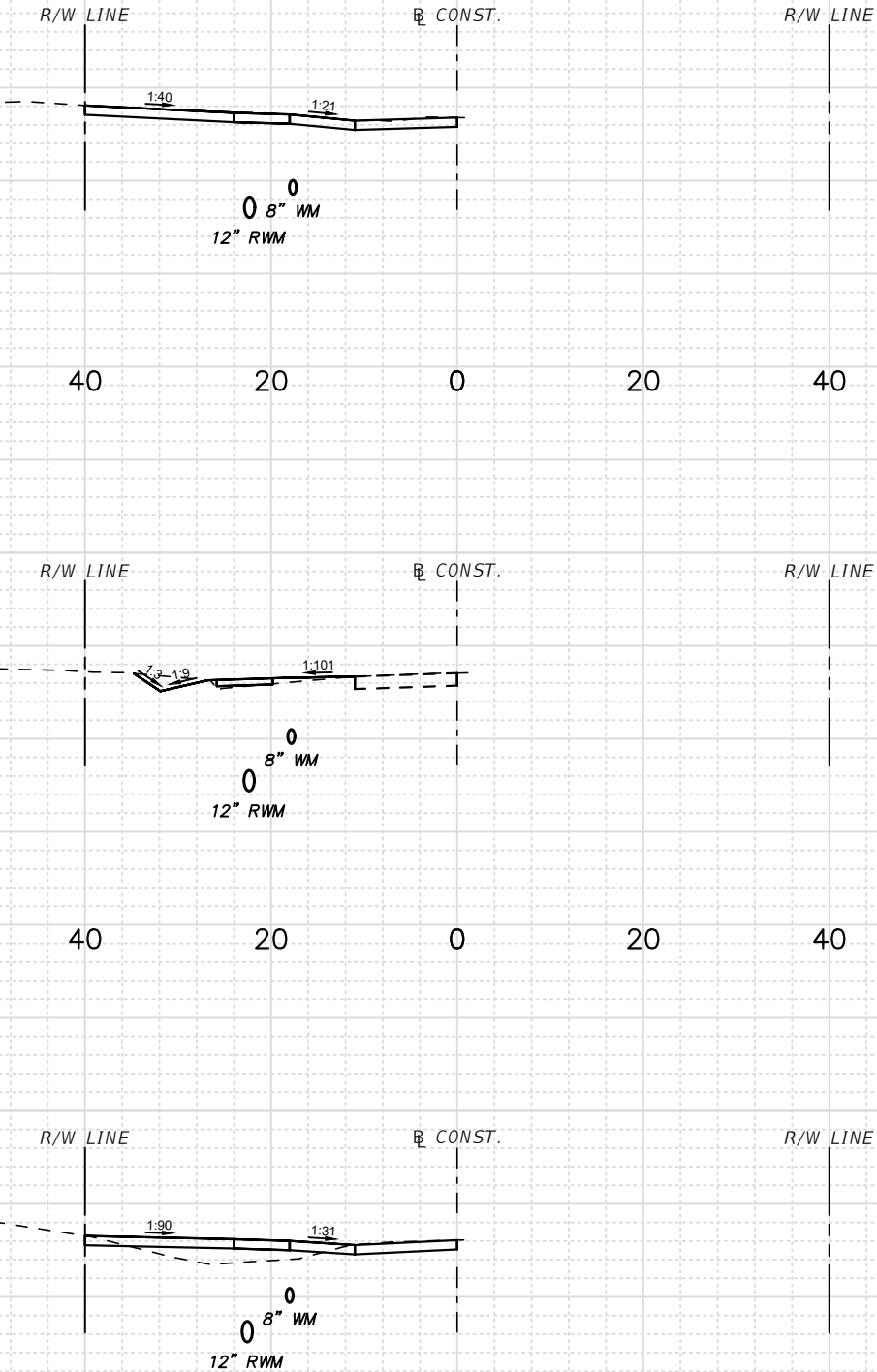
CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

CROSS SECTION

SHEET  
NO.  
19

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:27 PM By: YUANQI WANG

25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80



34+00.0

32+00.0

30+00.0

25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80

H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		20.55		0.00	
		102.48		6.87	
		7.12		1.86	
		56.37		47.83	
		8.10		11.06	
		111.71		40.95	

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
DESIGNED BY SKM 07/22/24	DRAWN BY YW 07/25/24
CHECKED BY SKM 07/26/24	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



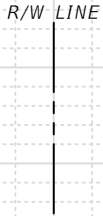
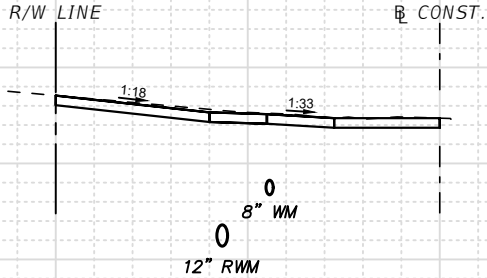
CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

CROSS SECTION

SHEET NO.
20

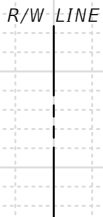
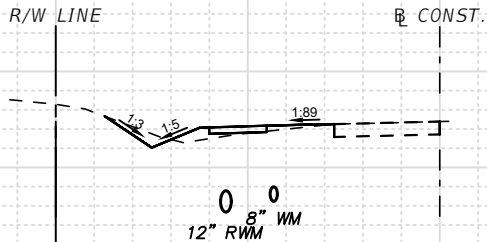
P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:27 PM By: YUANQI WANG

25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80

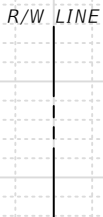
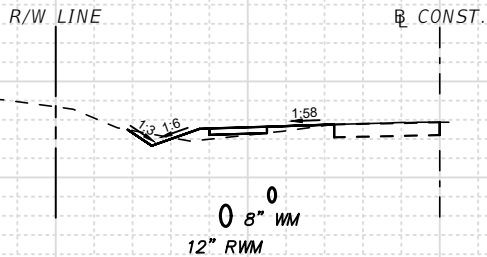


40+00.0

25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80



38+00.0



36+00.0

H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

R E V I S I O N S					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
DESIGNED BY SKM 07/22/24	DRAWN BY YW 07/25/24
CHECKED BY SKM 07/26/24	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

CROSS SECTION	

SHEET NO.
21

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A (SF)	V (CY)	A (SF)	V (CY)	A (SF)	V (CY)
		22.35		0.00	
		105.36		12.48	
		6.10		3.37	
		42.16		25.01	
		5.28		3.38	
		95.67		12.53	

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:27 PM By: YUANQI WANG

25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80

R/W LINE

B CONST.

R/W LINE

1.87  
1.87  
0 0  
8" WM  
12" RWM

46+00.0

25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80  
25  
20  
15  
10  
5  
80 60 40 20 0 20 40 60 80

R/W LINE

B CONST.

R/W LINE

1.28  
1.48  
0 0  
8" WM  
12" RWM

44+00.0

R/W LINE

B CONST.

R/W LINE

1.5  
1.6  
1.9  
0 0  
8" WM  
12" RWM

42+00.0

H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		4.09		3.60	
		98.82		13.33	
		22.59		0.00	
		122.27		4.58	
		10.42		1.24	
		121.35		4.58	

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

R E V I S I O N S					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
DESIGNED BY SKM 07/22/24	DRAWN BY YW 07/25/24
CHECKED BY SKM 07/26/24	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

CROSS SECTION

SHEET  
NO.  
22

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:28 PM By: YUANQI WANG

25

20

15

10

80

60

40

20

0

20

40

60

80

R/W LINE

B CONST.

R/W LINE

53+40.0

25

20

15

10

6.00

26.96

7.09

42.84

25

20

15

10

80

60

40

20

0

20

40

60

80

R/W LINE

B CONST.

R/W LINE

52+00.0

25

20

15

10

4.40

69.73

9.43

42.64

25

20

15

10

5

80

60

40

20

0

20

40

60

80

R/W LINE

B CONST.

R/W LINE

50+00.0

25

20

15

10

5

14.43

137.16

2.08

42.07

0 8" WM  
12" RWM

H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
DESIGNED BY SKM 07/22/24	DRAWN BY YW 07/25/24
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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

CITY OF PORT ST LUCIE

PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

CROSS SECTION

SHEET  
NO.

23

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:28 PM By: YUANQI WANG

25

20

15

10

5

80

60

40

20

0

20

40

60

80

R/W LINE

B CONST.

R/W LINE

58+00.0

25

20

15

10

5

25

20

15

10

80

60

40

20

0

20

40

60

80

R/W LINE

B CONST.

R/W LINE

56+80.0

25

20

15

10

25

20

15

10

80

60

40

20

0

20

40

60

80

R/W LINE

B CONST.

R/W LINE

55+80.0

25

20

15

10

H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		9.70		4.47	
			37.54		12.23
		7.19		1.03	
			20.54		11.51
		3.90		5.18	
			44.01		54.56

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
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C&T JOB NO. 21-167	
DESIGNED BY SKM 07/22/24	DRAWN BY YW 07/25/24
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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

CROSS SECTION	
SHEET NO.	
24	

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:28 PM By: YUANQI WANG

25

20

15

10

5

80

60

40

20

0

20

40

60

80

25

20

15

10

5

80

60

40

20

0

20

40

60

80

R/W LINE

B CONST.

R/W LINE

61+80.0

25

20

15

10

5

10.65

69.39

10.51

47.69

R/W LINE

B CONST.

R/W LINE

60+00.0

25

20

15

10

5

10.17

73.60

3.80

30.63

H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS

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CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

CROSS SECTION

SHEET NO.

25



P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:28 PM By: YUANQI WANG

25

20

15

10

80

60

40

20

0

20

40

60

80

R/W LINE

B CONST.

R/W LINE

68+00.0

25

20

15

10

25

20

15

10

80

60

40

20

0

20

40

60

80

R/W LINE

B CONST.

R/W LINE

66+00.0

25

20

15

10

25

20

15

10

80

60

40

20

0

20

40

60

80

R/W LINE

B CONST.

R/W LINE

64+00.0

25

20

15

10

1:128

H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

PROJECT  
TOTAL EXC.  
1878 CY

PROJECT  
TOTAL EMBK.  
658 CY

2.28

0.05

52.67

43.02

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DESIGNED BY SKM 07/22/24	DRAWN BY YW 07/25/24
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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



CITY OF PORT ST LUCIE

PROJECT NAME

FINANCIAL PROJECT ID

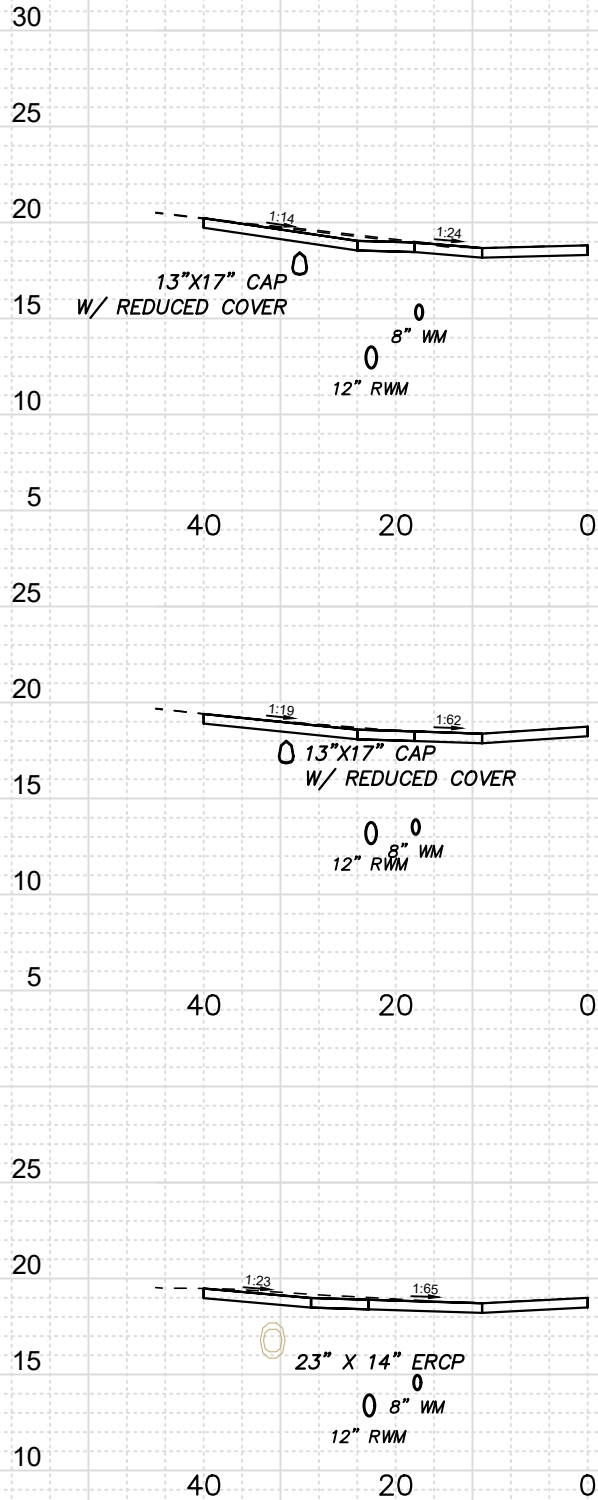
LAKEHURST DRIVE  
SIDEWALK PHASE 2

CROSS SECTION

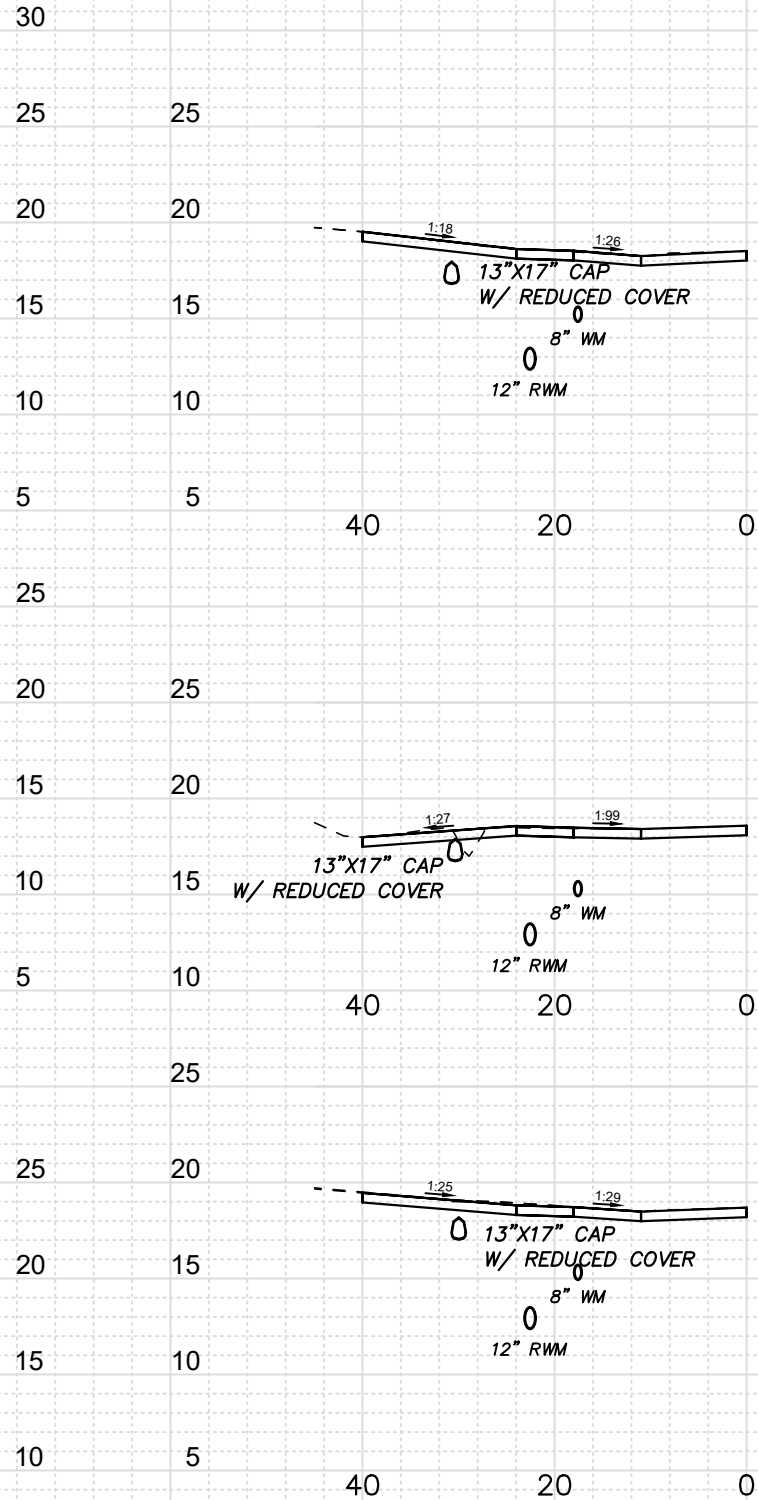
SHEET  
NO.

26

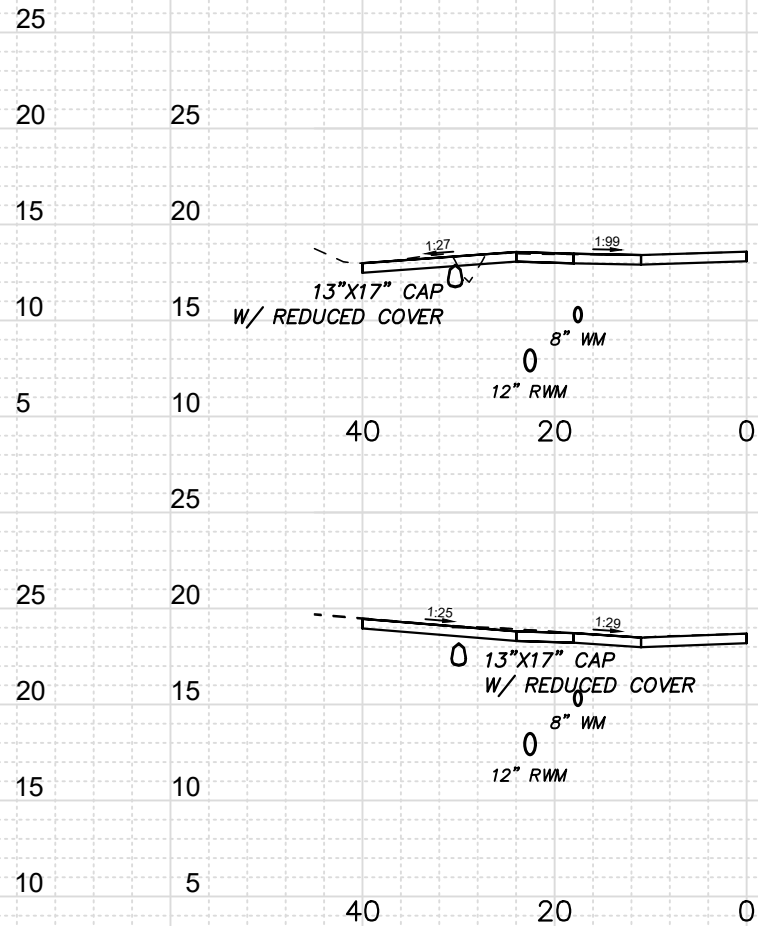
P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:28 PM By: YUANQI WANG



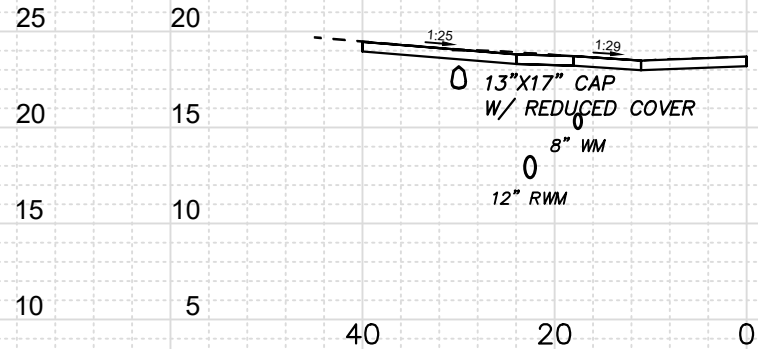
16+94.2



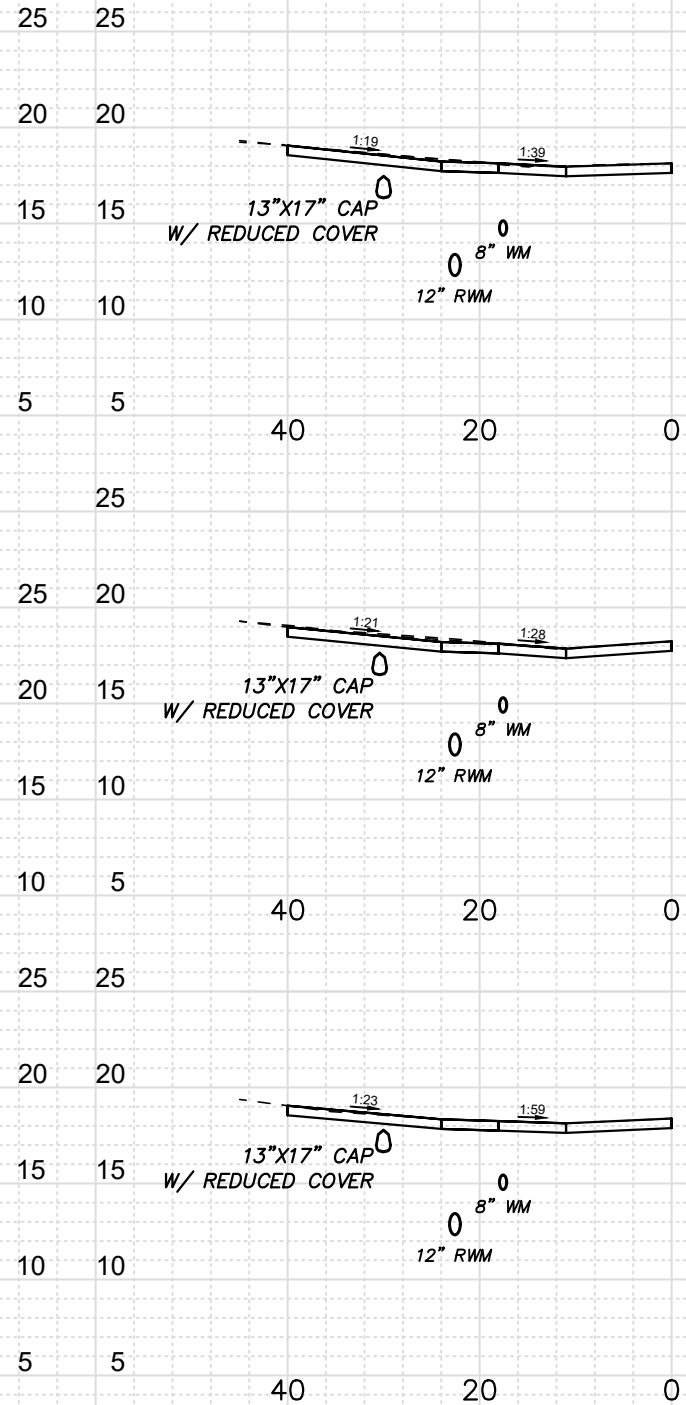
12+91.4



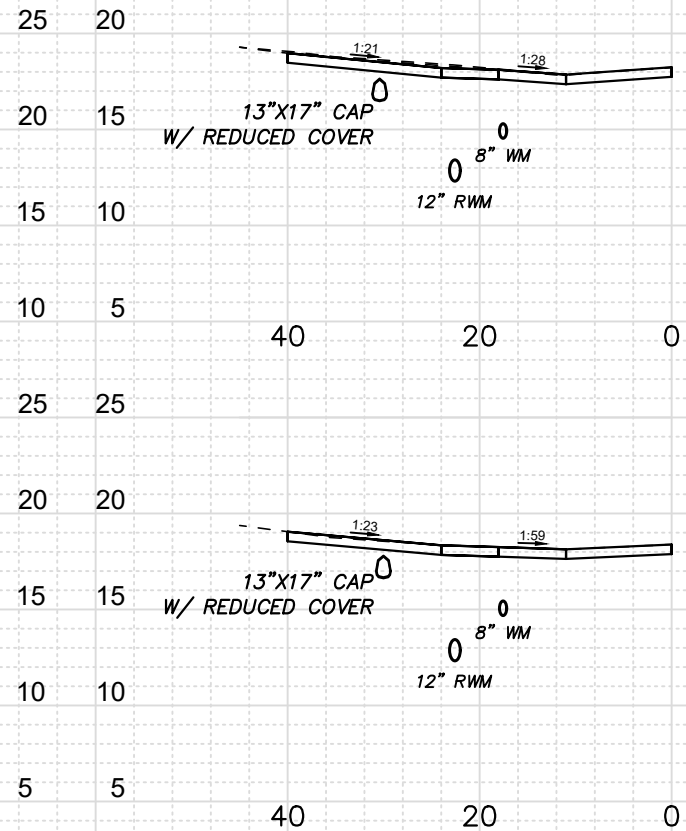
11+63.9



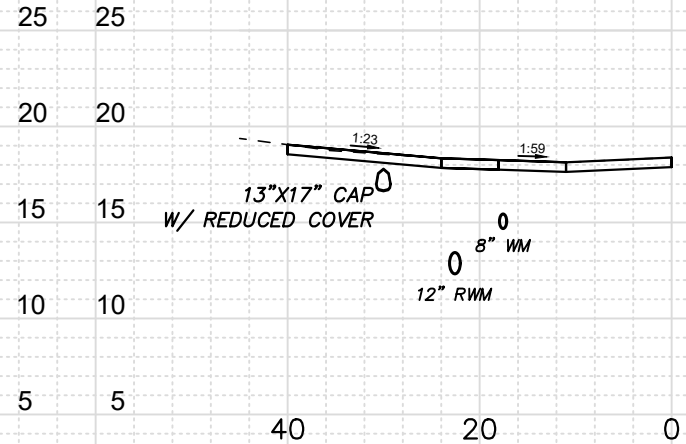
19+35.6



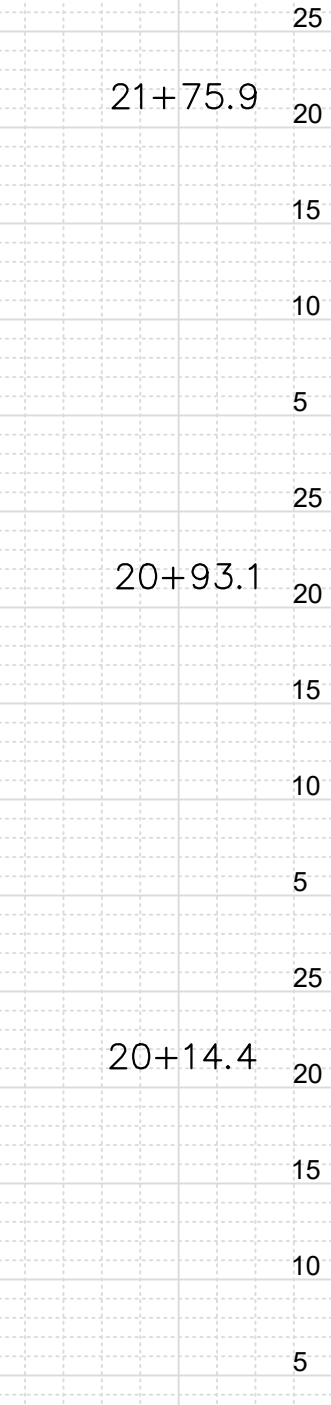
18+88.9



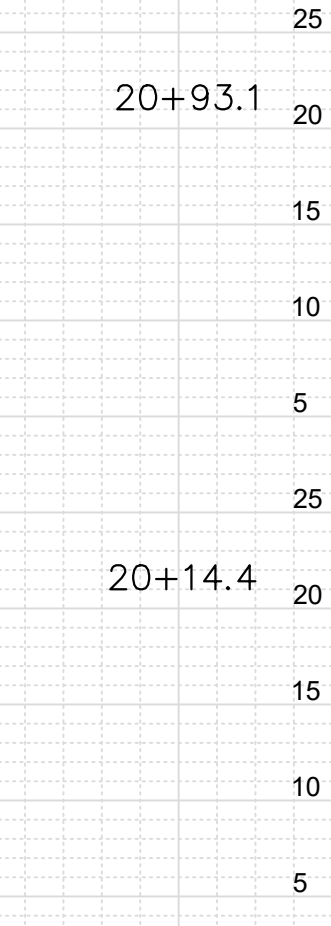
18+18.4



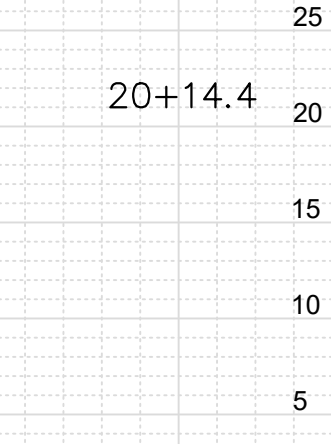
21+75.9



20+93.1



20+14.4



H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



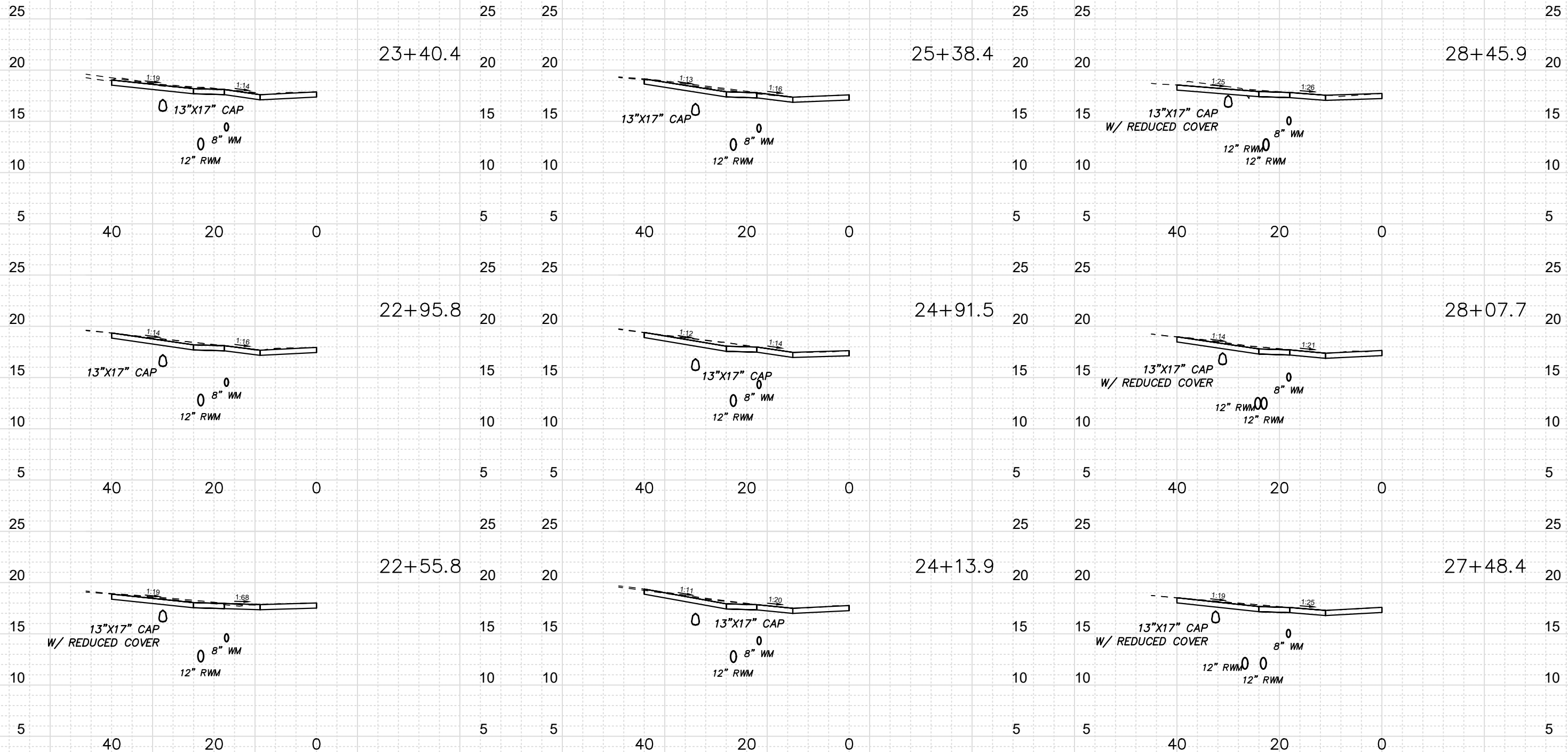
CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

DRIVEWAY CROSS SECTION

SHEET  
NO.

27

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:28 PM By: YUANQI WANG



STEFAN K. MATTHES, P.E.  
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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

DRIVEWAY CROSS SECTION	

SHEET NO.
28

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723



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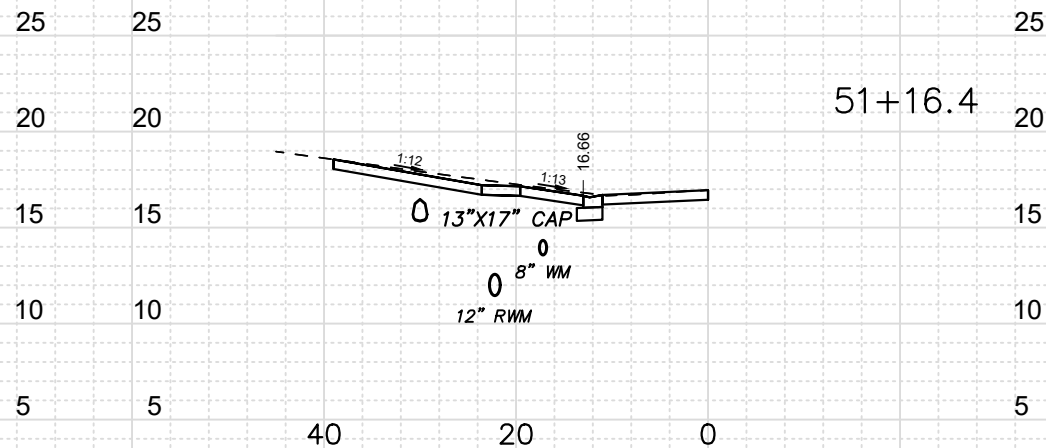
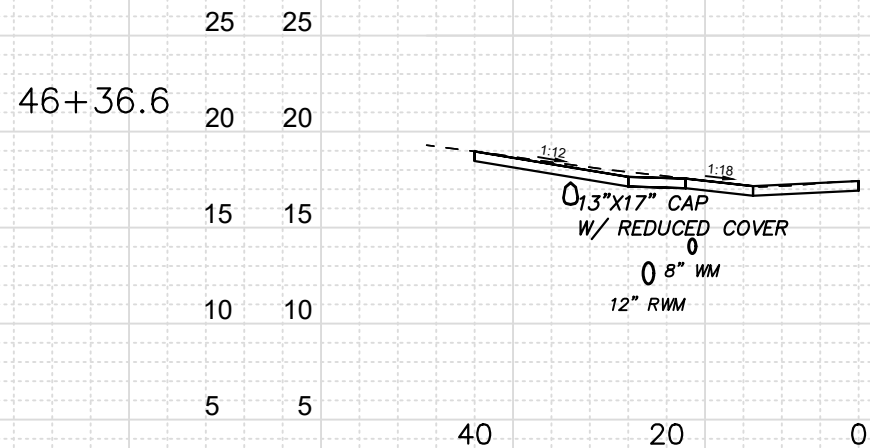
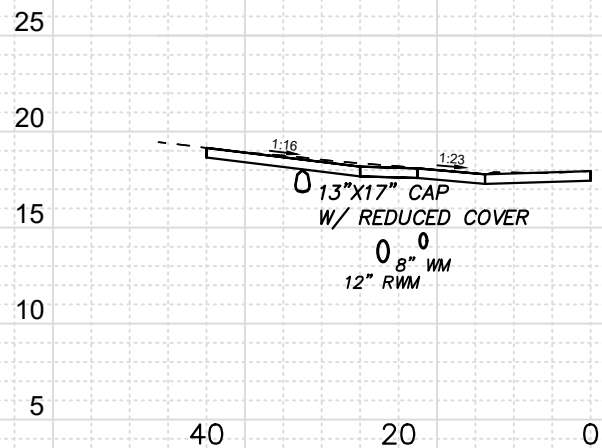
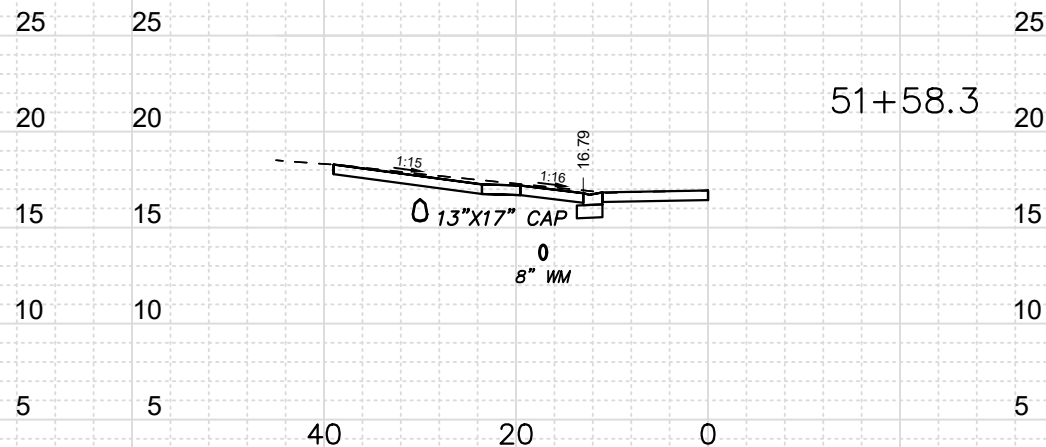
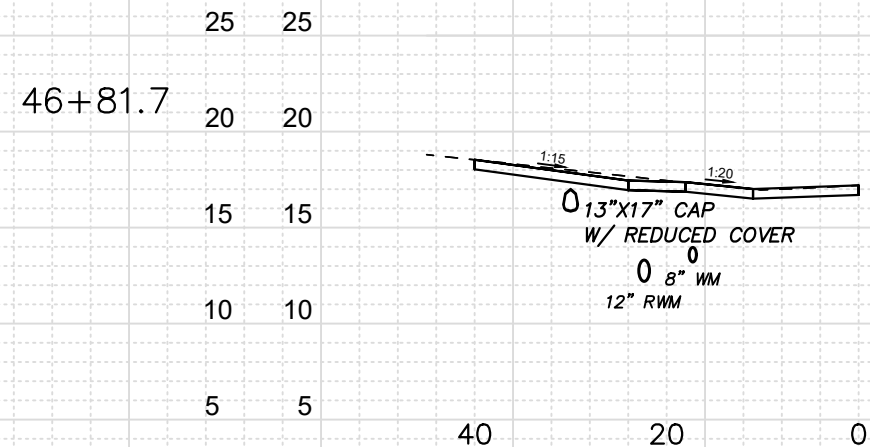
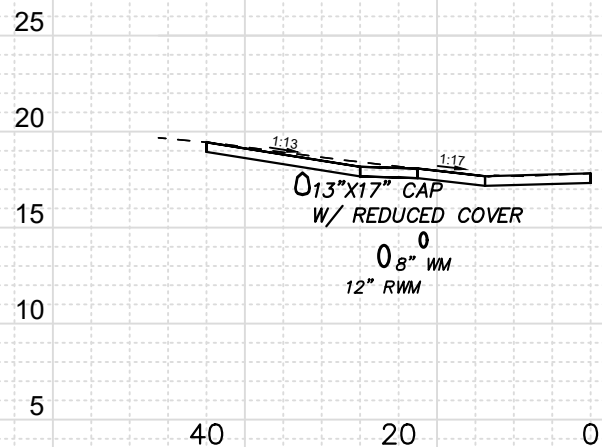
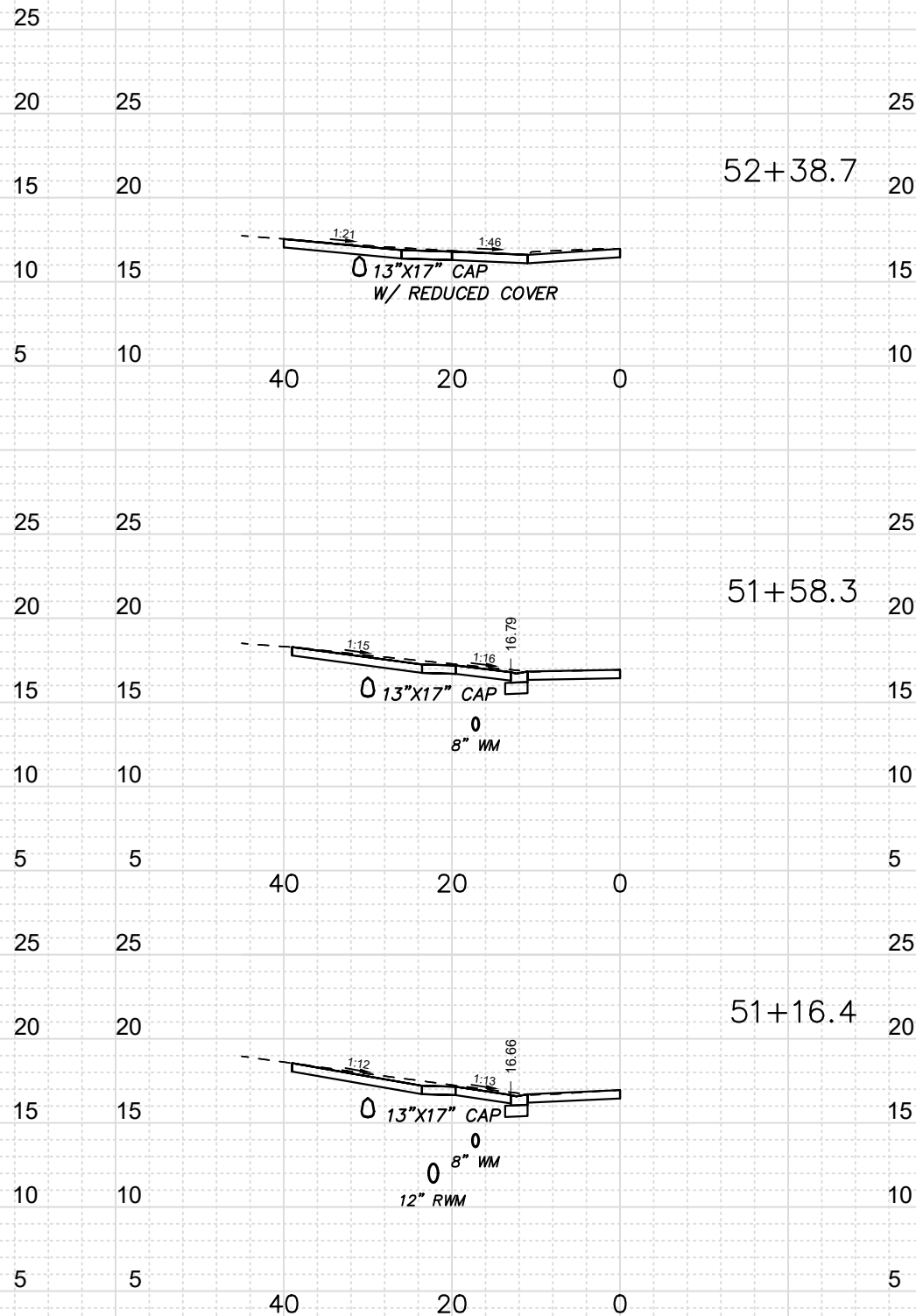
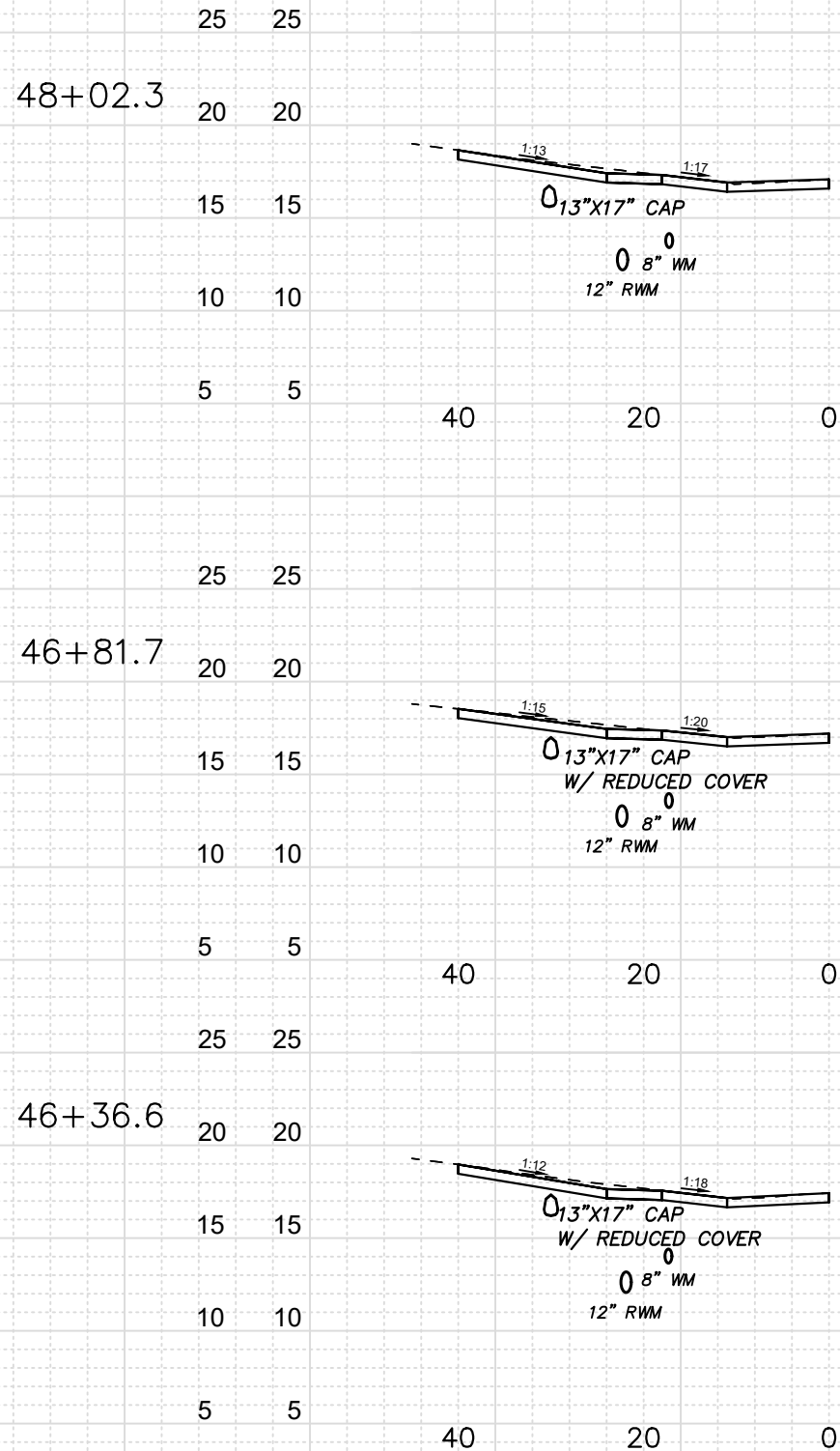
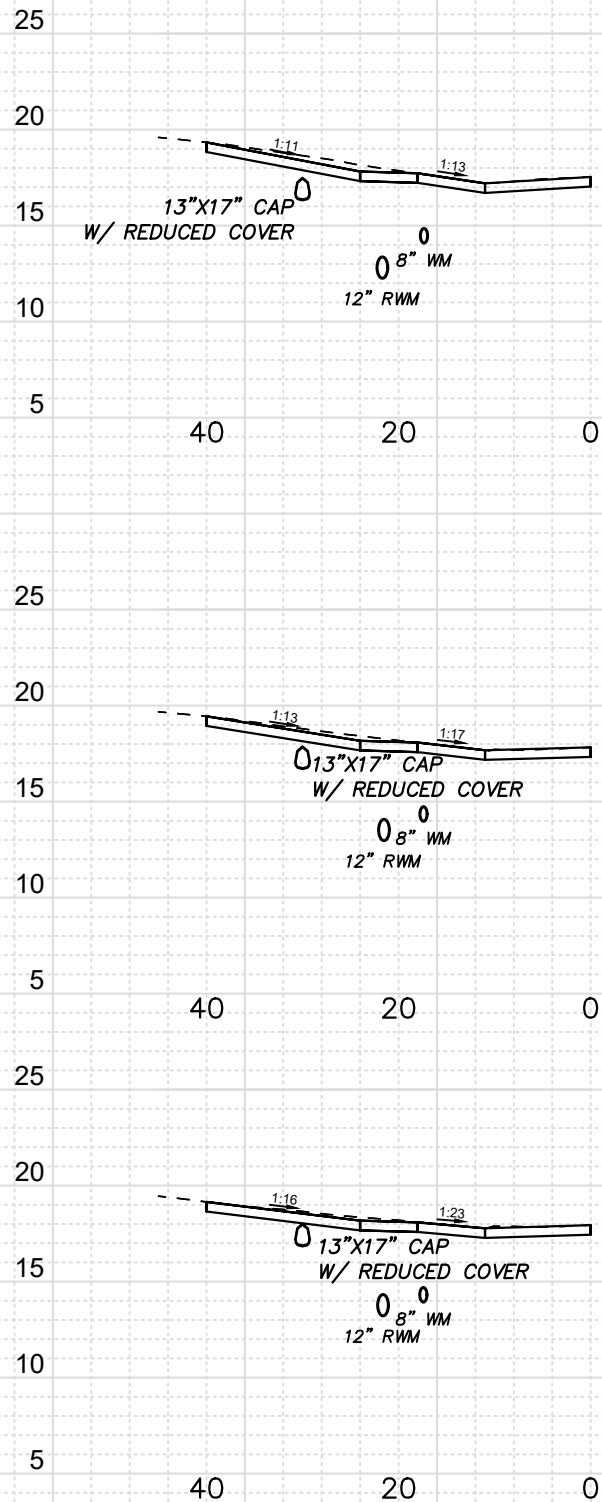
STATE OF FLORIDA BOARD OF PROFESSIONAL  
ENGINEERS AUTHORIZATION NO. 4286

CITY OF PORT ST LUCIE		<div>DRIVEWAY CROSS SECTION</div>	SHEET NO.
PROJECT NAME	FINANCIAL PROJECT ID		
LAKEHURST DRIVE SIDEWALK PHASE 2			29





P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:28 PM By: YUANQI WANG



H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
DESIGNED BY	DRAWN BY
SKM 07/22/24	YW 07/25/24
CHECKED BY	CHECKED BY
SKM 07/26/24	
ENGINEER OF RECORD:	
STEFAN K. MATTHES, P.E. NO. 38723	

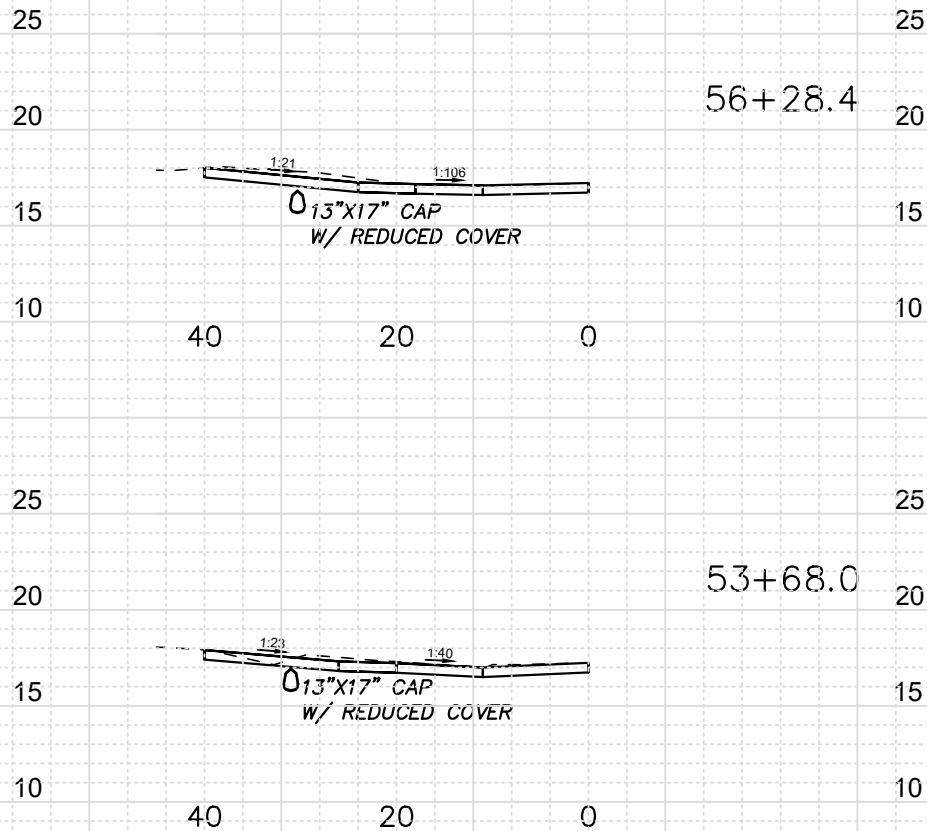


CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

DRIVEWAY CROSS SECTION

SHEET  
NO.  
31

P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - CROSS SECTION.dwg Plotted: 12/31/2024 3:28 PM By: YUANQI WANG




H. SCALE: 1" = 20'  
V. SCALE: 1" = 10'

STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

R E V I S I O N S					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
DESIGNED BY SKM 07/22/24	DRAWN BY YW 07/25/24
CHECKED BY SKM 07/26/24	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

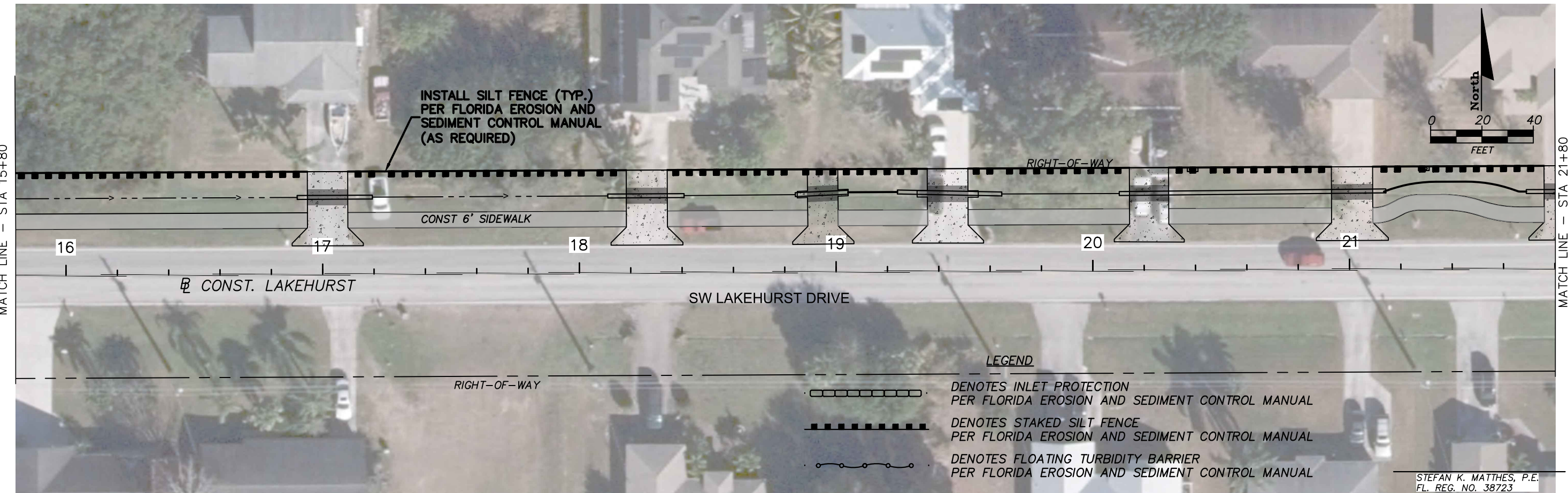
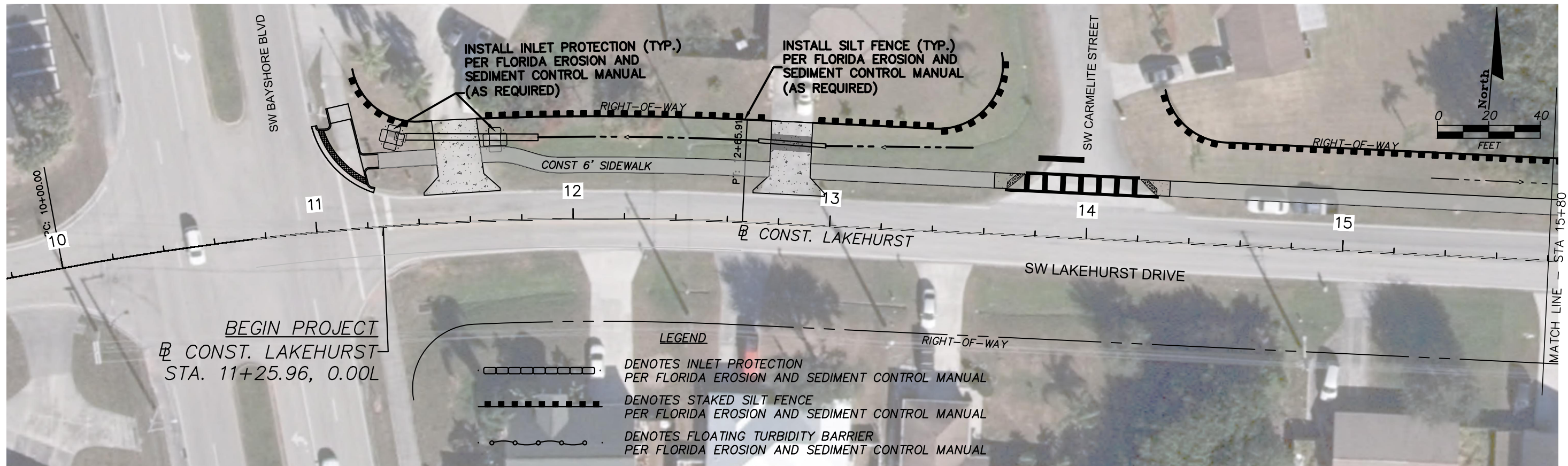
CITY OF PORT ST LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

DRIVEWAY CROSS SECTION	

SHEET NO.
32




P:\Proj\2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - EROSION CONTROL PLAN .dwg Plotted: 12/31/2024 3:29 PM By: YUANQI WANG



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 21-167	
DESIGNED BY SKM 07/22/24	DRAWN BY YW 07/23/24
CHECKED BY SKM 07/26/24	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



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CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

EROSION CONTROL PLAN

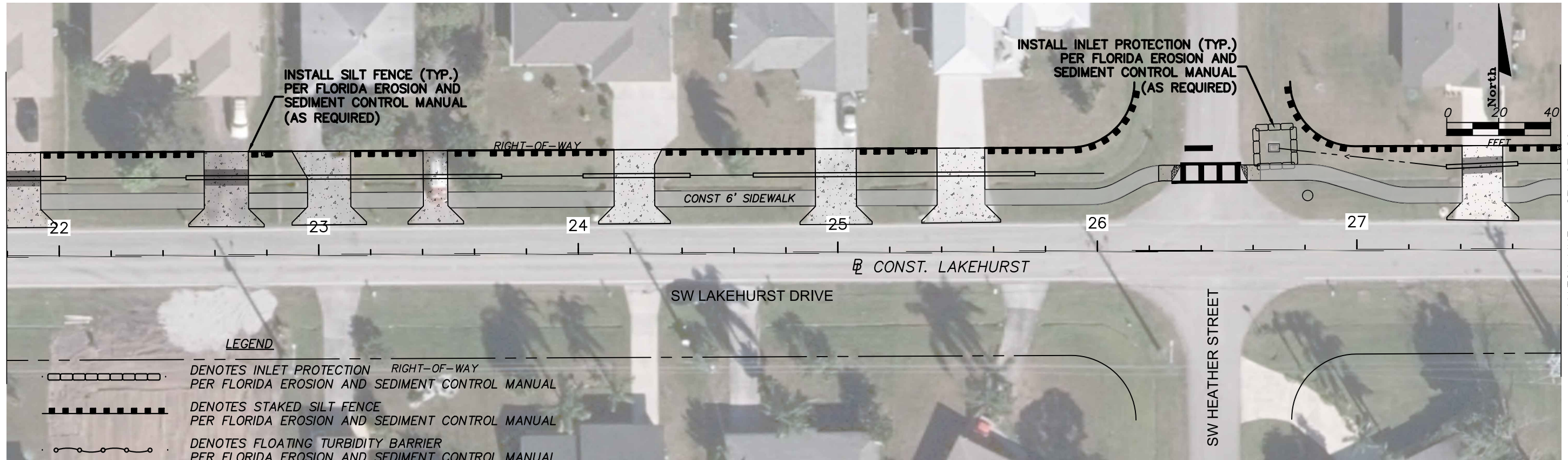
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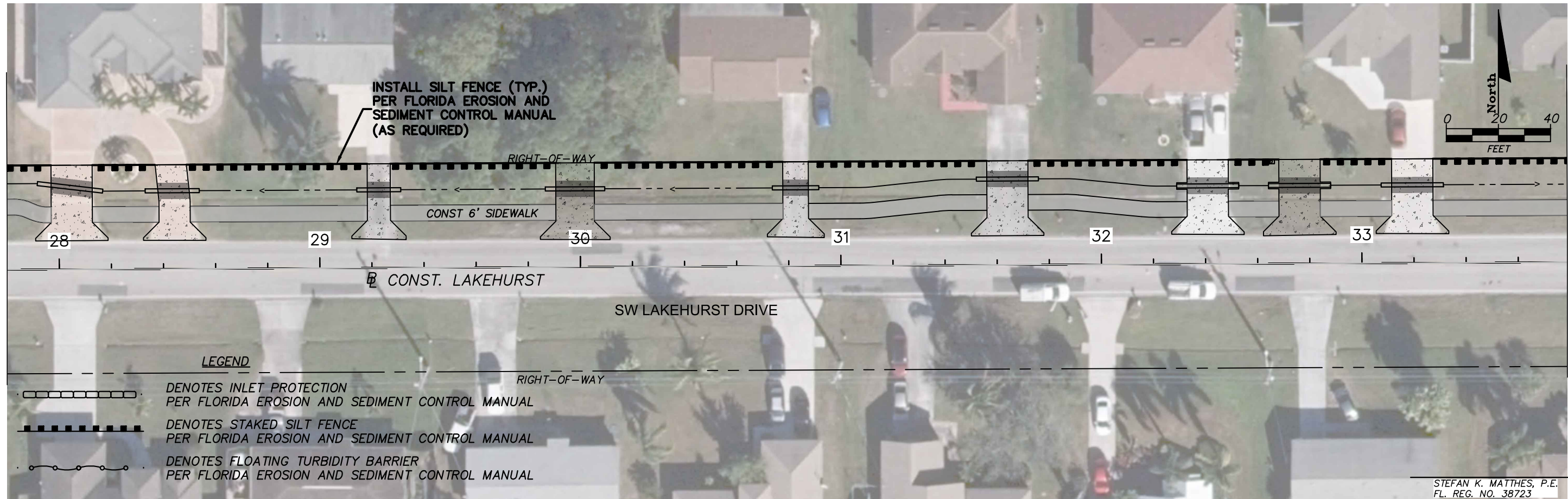


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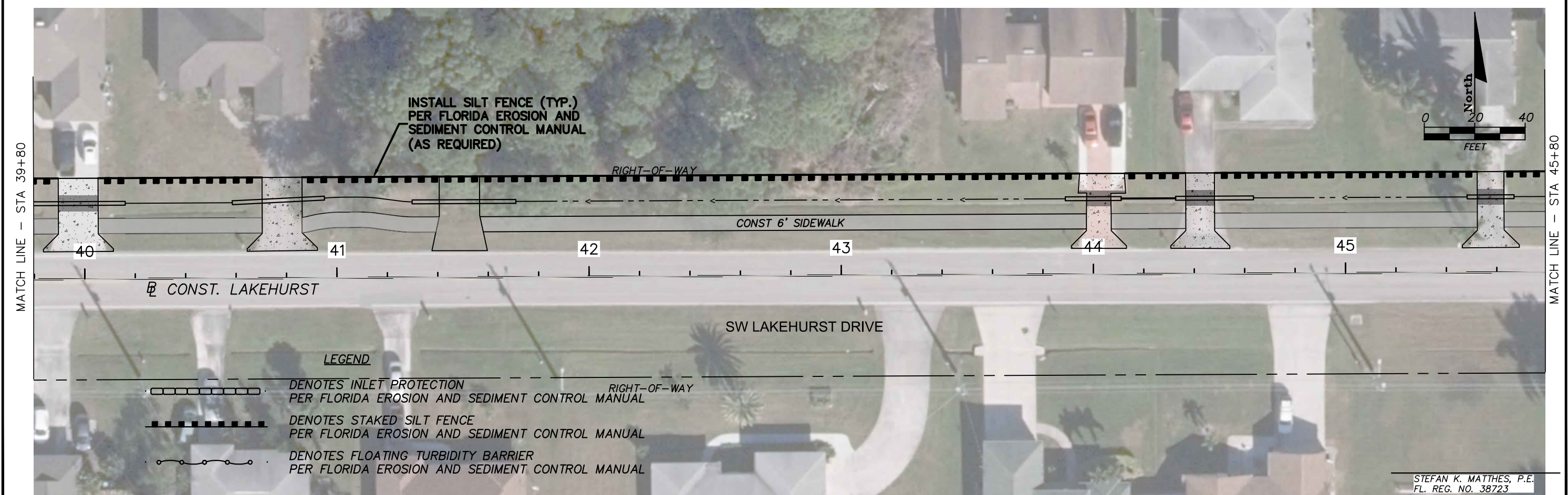
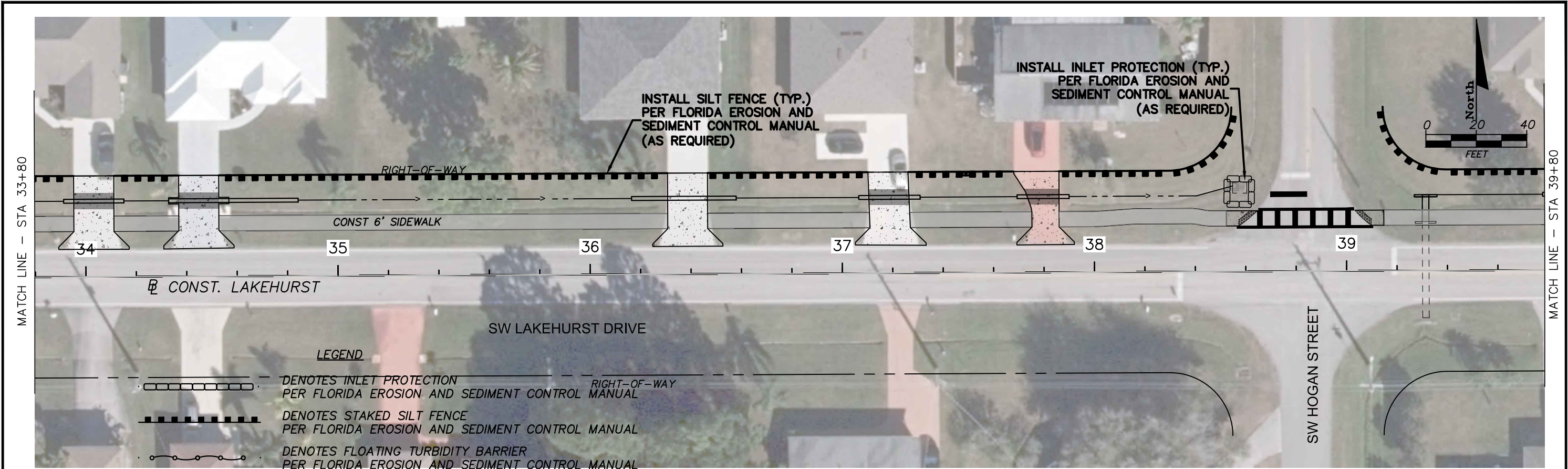
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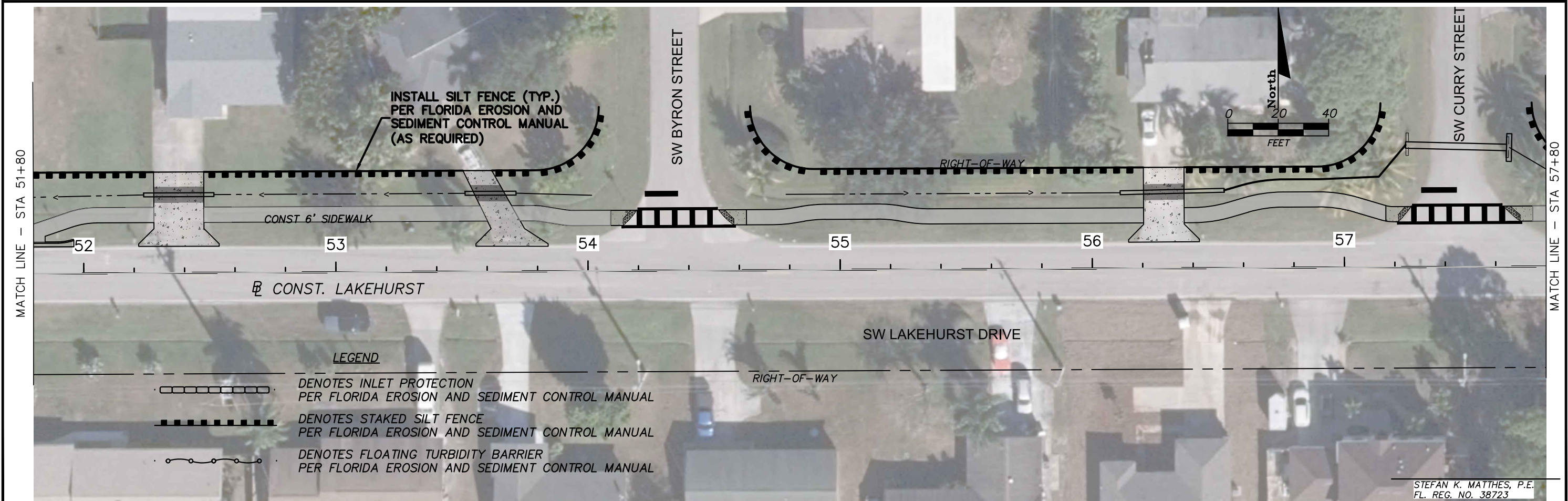
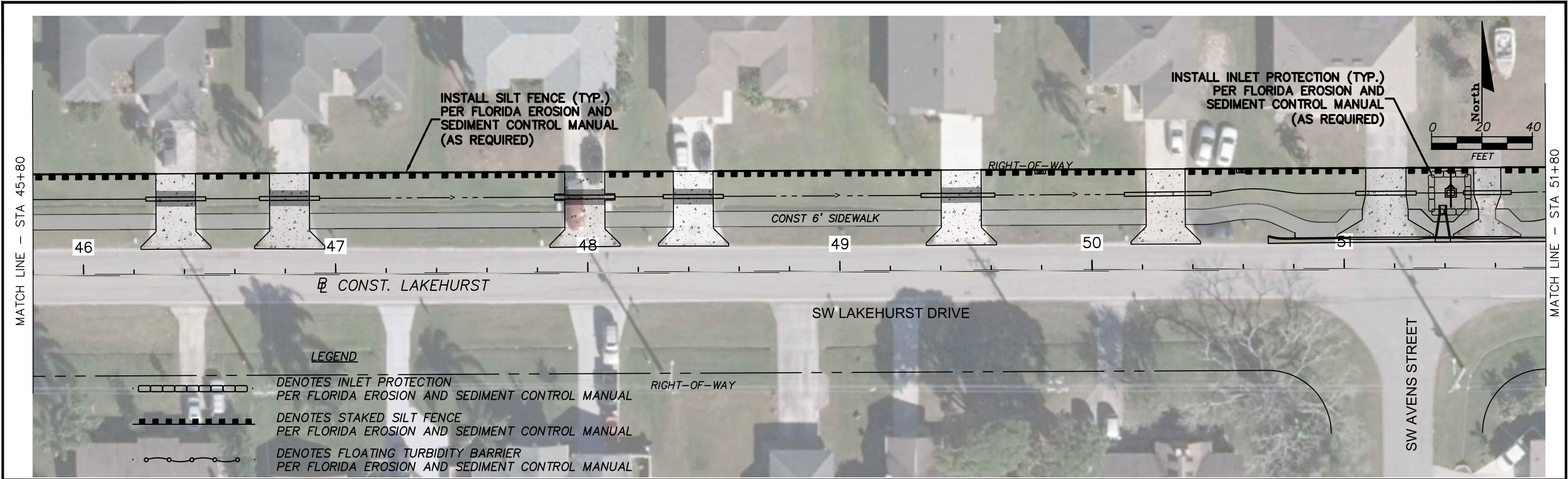
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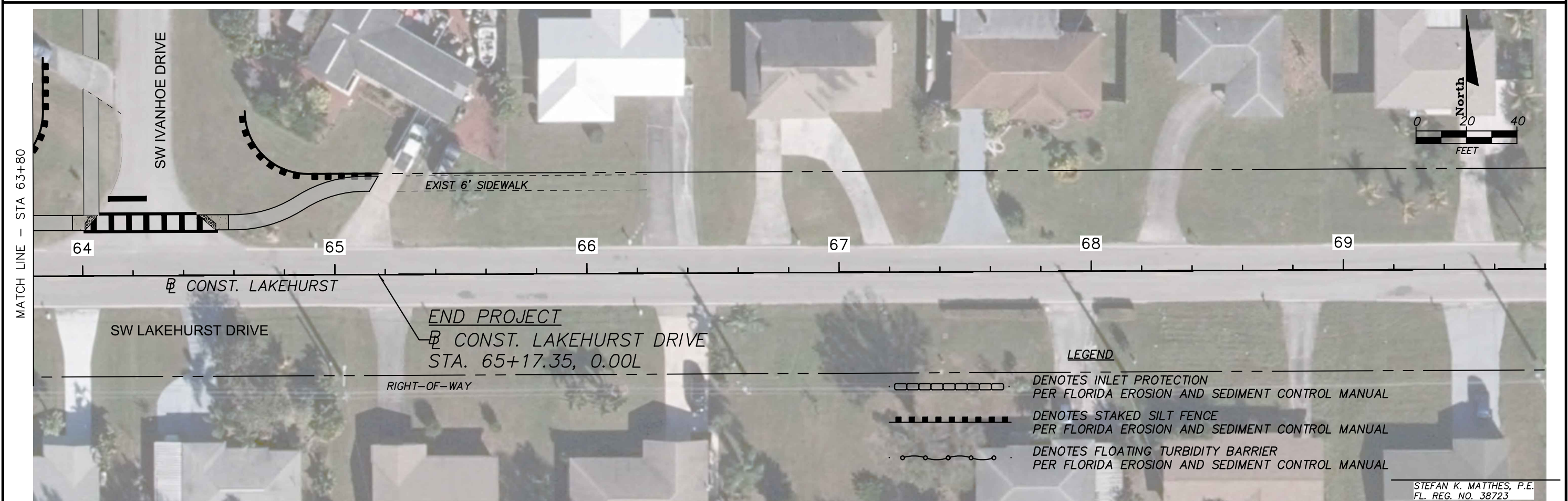
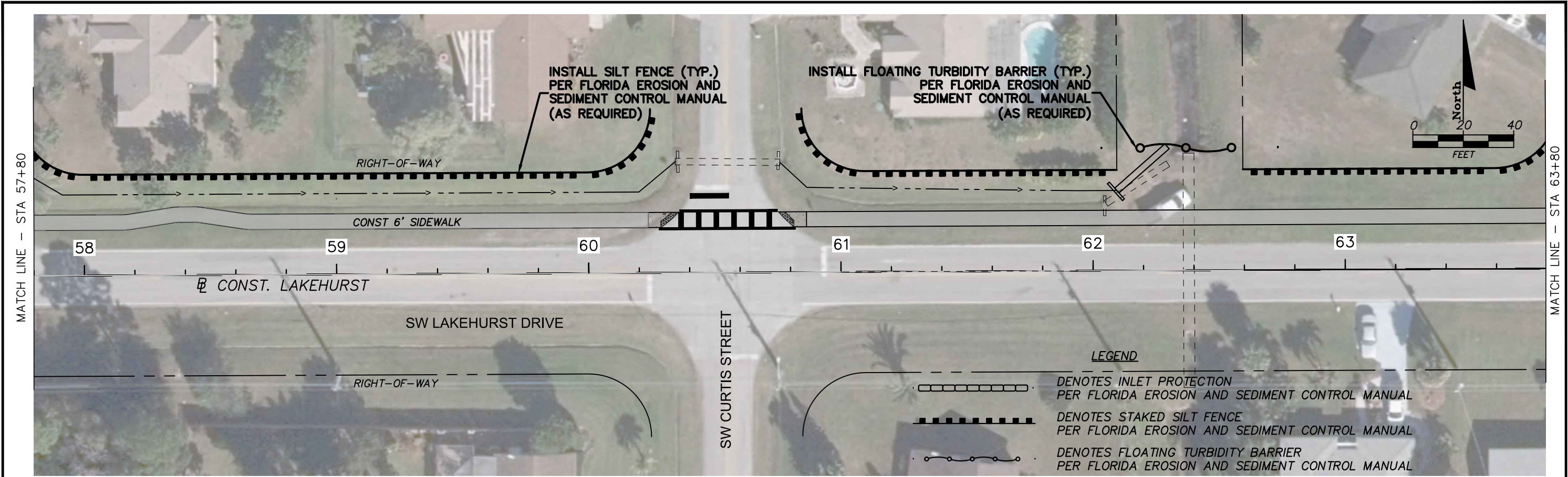
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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT IS THE CONSTRUCTION OF A 6-FOOT SIDEWALK TO ENHANCE THE SAFETY OF SW LAKEHURST DRIVE.

THE PROJECT ALSO INVOLVES MINOR DRAINAGE IMPROVEMENTS.

THE LIMITS OF THE PROJECT INCLUDE:

SIDEWALK CONSTRUCTION:  
4712 LF OF SIDEWALK AND DRAINAGE ALONG SW LAKEHURST DRIVE. FROM SW BAYSHORE BLVD. TO JUST PAST SW IVANHOE DRIVE.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW. UNLESS THE CONTRACTOR PROPOSES A DIFFERENCE SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

SILT FENCE AND FLOATING TURBIDITY BARRIER IS TO BE PLACED ONLY WITHIN THE RIGHT-OF-WAY. SILT FENCE PLACEMENT, STAKING AND TRENCHING SHALL BE COORDINATED TO MINIMIZE IMPACT TO NATIVE VEGETATION AND TREES TO REMAIN. CONTRACTOR TO PROVIDE SERVICE OF CERTIFIED ARBORIST IN AREAS WHERE POTENTIAL DAMAGE TO ROOT SYSTEMS OF MATURE TREES MAY OCCUR.

1. CLEARING AND GRUBBING, EARTHWORK AND EXCAVATION OF OPEN SWALES. REMOVE EXISTING UNWANTED SOILS, CONCRETE AND STORM DRAIN FACILITIES AND PROPERLY DISPOSE THE MATERIALS.

2. INSTALLATION OF STORM DRAIN FACILITIES AS CALLED FOR IN THE PLANS.

3. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF THE SIDEWALK.

4. STABILIZE AND SOD THE UNPAVED PROJECT AREA AS CALLED FOR IN THE PLANS

1.C. AREA ESTIMATED

TOTAL SITE AREA: 5.0 ± AC  
TOTAL AREA TO BE DISTURBED: 3.2 ± AC

1.D. RUNOFF DATA:

RUNOFF COEFFICIENTS:  
BEFORE: 0.44  
DURING VARIES FROM 0.3 TO 0.7  
AFTER: 0.55

OUTFALL INFORMATION:

DRAINAGE WILL BE A SERIES OF SWALES AND CULVERTS FOR PARTS OF THE ROADWAY AND CURB INLETS ELSEWHERE WITH THE PROJECT OUTFALLING TO THE CITY OF PORT ST. LUCIE DRAINAGE SYSTEM.

SURFACE WATERS: N/A

DISCHARGE POINTS TO SURFACE WATERS:

THE DISCHARGE POINT TO THE CITY OF PORT ST. LUCIE DRAINAGE RIGHT-OF-WAY ARE VIA EXISTING CROSS PIPES.

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

- DRAINAGE PATTENS: THE DRAINAGE BASIN DIVIDES WILL BE MAINTAINED AND FLOW DIRECTIONS ARE SHOWN ON THE CONSTRUCTION PLANS.

- APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTIONS SHEETS AND THE PLAN-PROFILE SHEETS.

- AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, AND THE CROSS SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

- AREAS NOT TO BE DISTURBED: THE AREAS TO NOT TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, AND THE CROSS SECTION SHEETS.

- LOCATION OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL PLAN SHEETS. TABLES PROVIDING SUMMARIES OF THE TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS ARE PROVIDED IN THE SUMMARY OF QUANTITIES SHEETS.

- LOCATION OF PERMANENT CONTROLS: NOT APPLICABLE

- AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS AND THE PLAN-PROFILE SHEETS.

1.F. RECEIVING WATERS:

SEE ITEM 1.D. FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES.

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINE IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS. THE CONTRACTOR MAY CHOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATIONS, CHANGES IN CONSTRUCTION ACTIVITY, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT MILLED MATERIAL FROM ENTERING THE DRAINAGE SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING INLETS CLEAR OF PAVING MATERIAL, SILT, LIME-ROCK, AND DEBRIS DURING THE CONSTRUCTION AT NO ADDITIONAL COST.

2.A.1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CLOSED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY ENGINEER.

TEMPORARY:

- ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATIONS SECTION 104.

- TURF AND SOD IN ACCORDANCE WITH SPECIFICATIONS SECTION 104.

PERMANENT:

- ASPHALT OR CONCRETE SURFACE.

- SOD IN ACCORDANCE WITH SPECIFICATION SECTION 575.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED ARE OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:

- SEDIMENT BARRIERS IN ACCORDANCE WITH FLORIDA EROSION & SEDIMENT CONTROL MANUAL.

- INLET PROTECTION IN ACCORDANCE WITH FLORIDA EROSION & SEDIMENT CONTROL MANUAL.

PERMANENT:

- SOD.

2.B STORMWATER MANAGEMENT:

RUNOFF WILL BE DIRECTED TO THE PROPOSED OPEN SWALE AND CLOSED CONDUIT STORM DRAINAGE SYSTEM. THE STORMWATER WILL FLOW THOUGH THE INFRASTRUCTURE AND DISCHARGE INTO THE VARIOUS OUTFALLS AS DESCRIBED IN SECTION 1.D.

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.

- DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

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CITY OF PORT ST. LUCIE

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2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENT AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY ENGINEER.

– COVERING LOADED HAUL TRUCKS WITH TARPAULINS.

– REMOVING EXCESS DIRT FROM ROADS DAILY.

– STABILIZED CONSTRUCTION ENTRANCES ACCORDING TO FLORIDA EROSION & SEDIMENT CONTROL MANUAL.

– USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATION FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THE ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

–THE PROJECT IS CURRENTLY UNDER REVIEW.

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

– SILT FENCE: MAINTAIN PER SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS OR AS NECESSARY.

– SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER’S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEASE ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

– POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

– POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.

– DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

– AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

– STRUCTURAL CONTROLS.

– STORMWATER MANAGEMENT SYSTEMS.

– LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZED EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE ENGINEER OF RECORD AND PROJECT MANAGER AT THE CITY OF PORT ST. LUCIE.

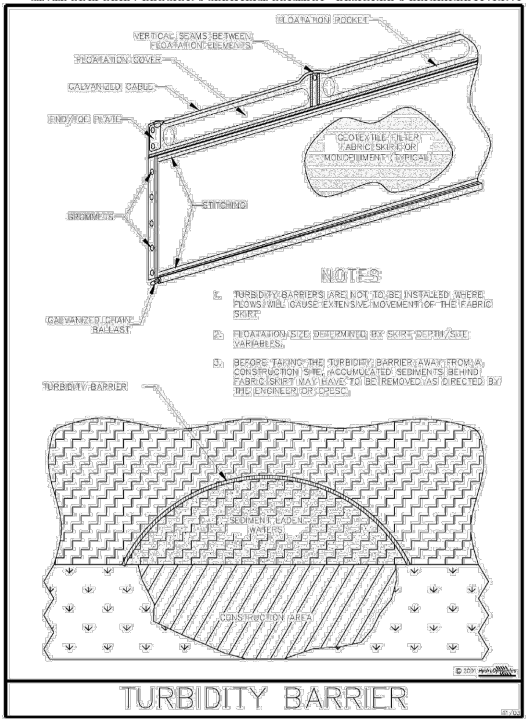


Figure V-44: Illustration of a Turbidity Barrier Curtain

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CHAPTER 4: BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL

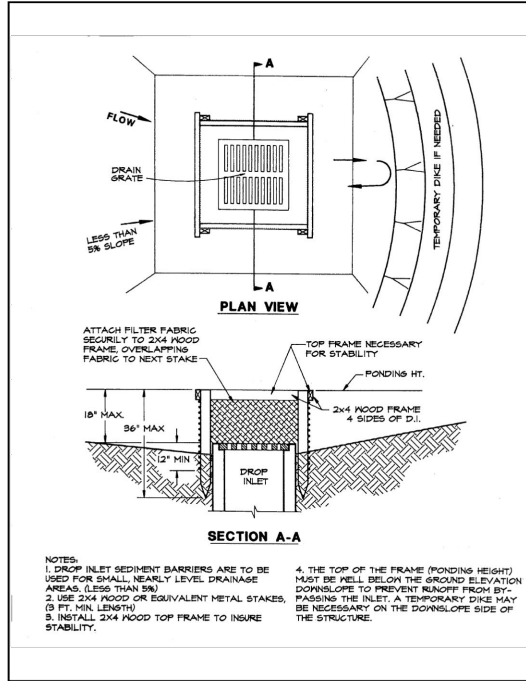


Figure 4.5a. Silt Fence Drop Inlet Sediment Barrier

Source: Erosion Draw

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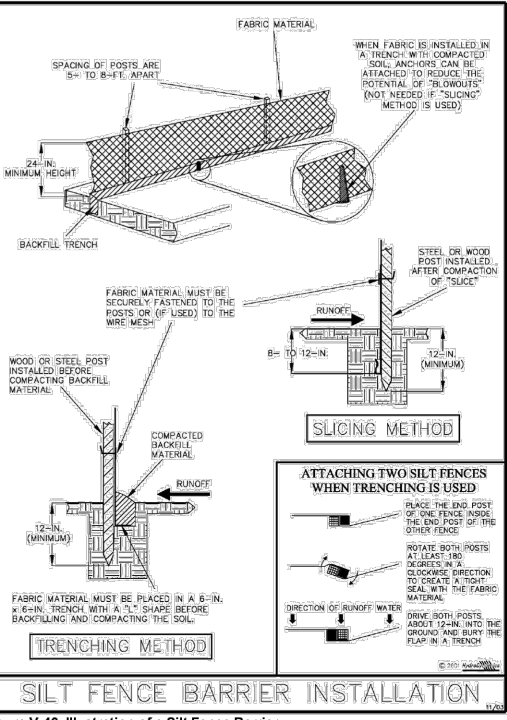


Figure V-40: Illustration of a Silt Fence Barrier

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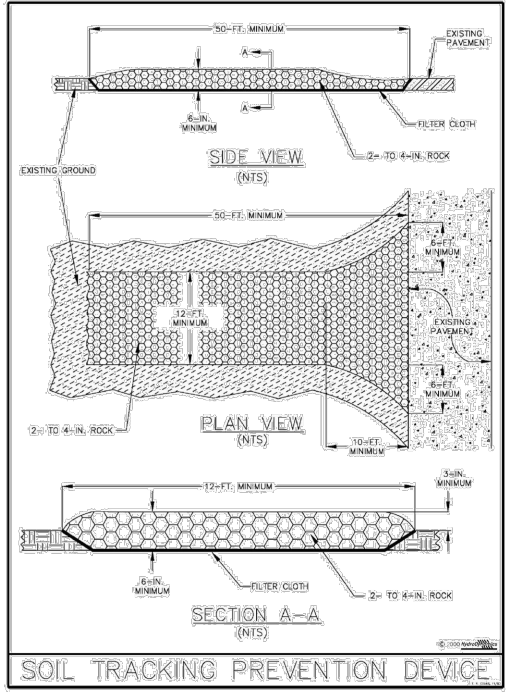


Figure V-52: Illustration of a Soil Tracking Prevention Device

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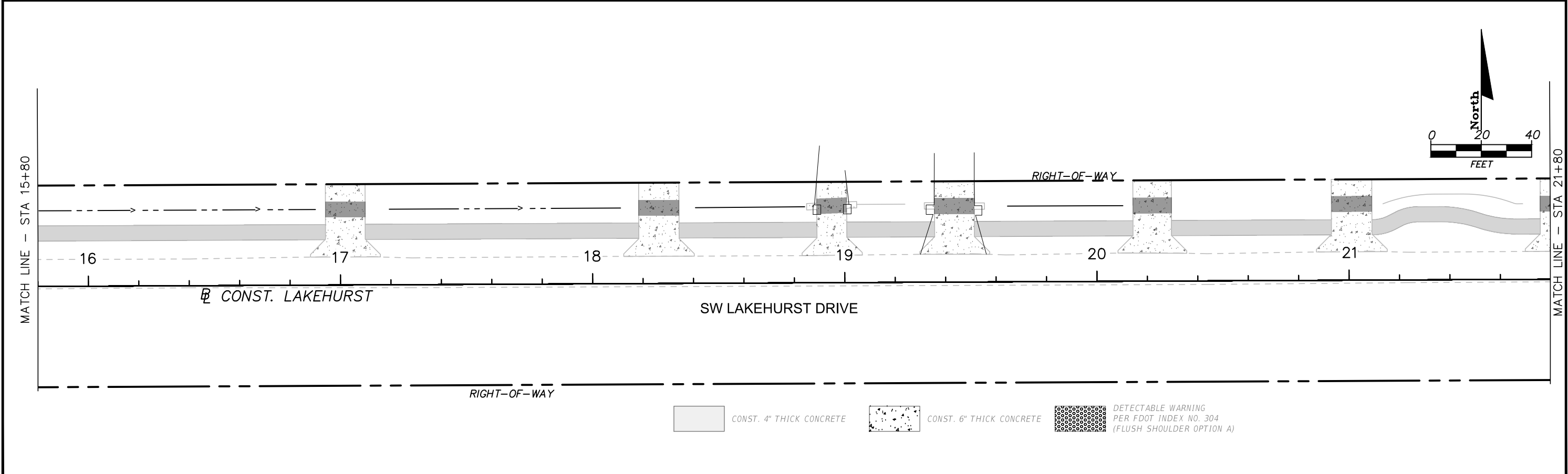
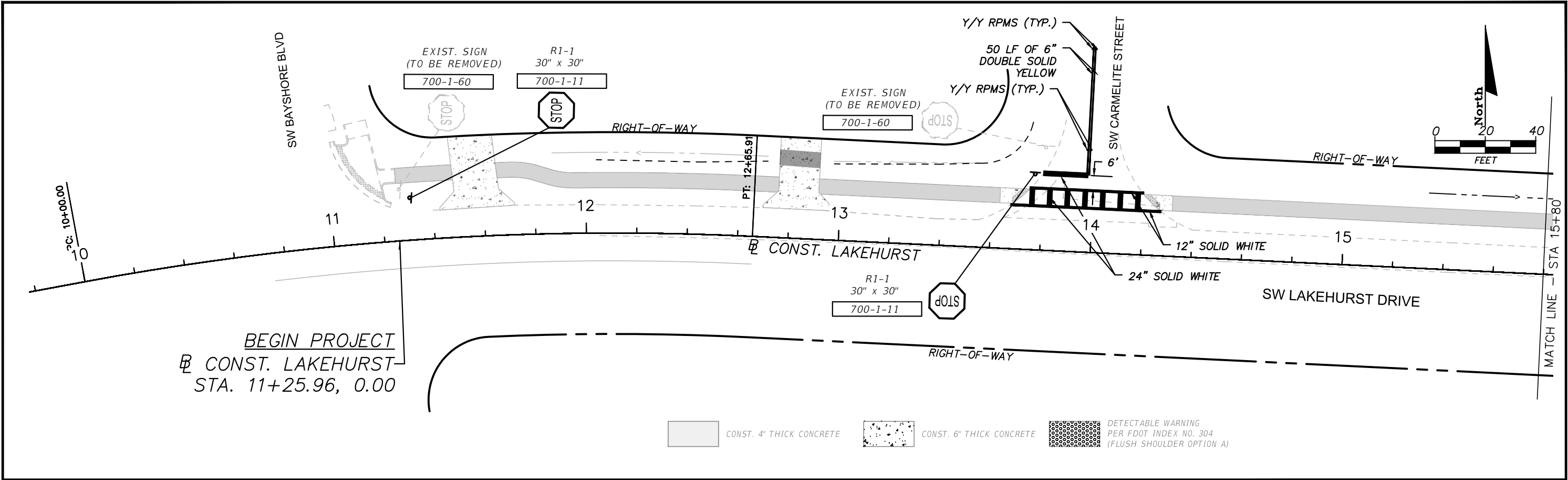
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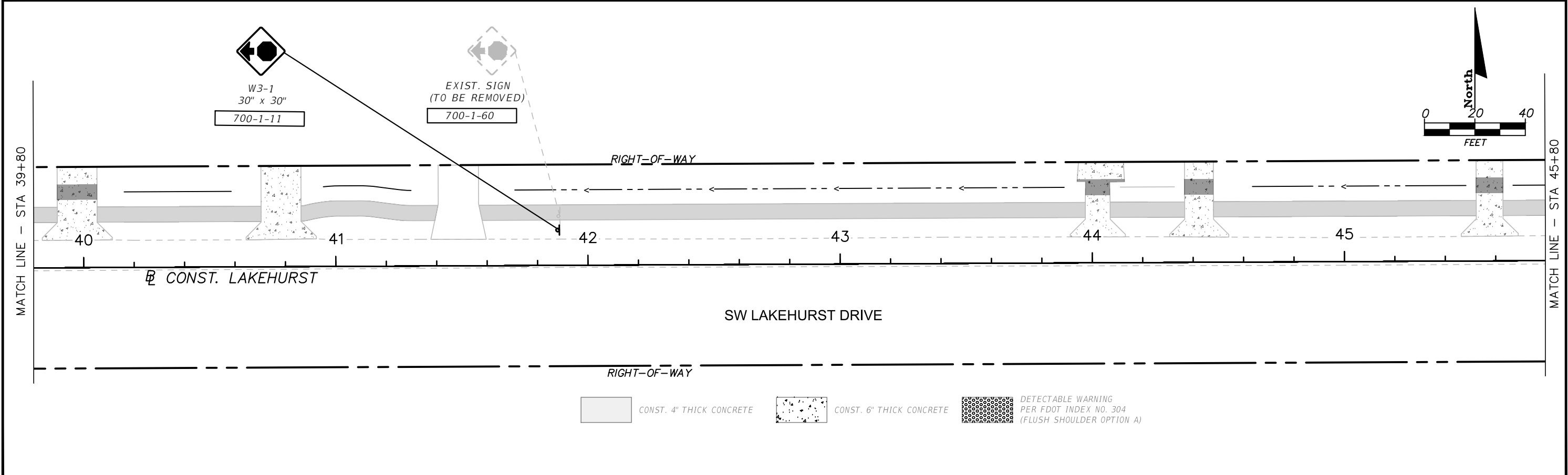
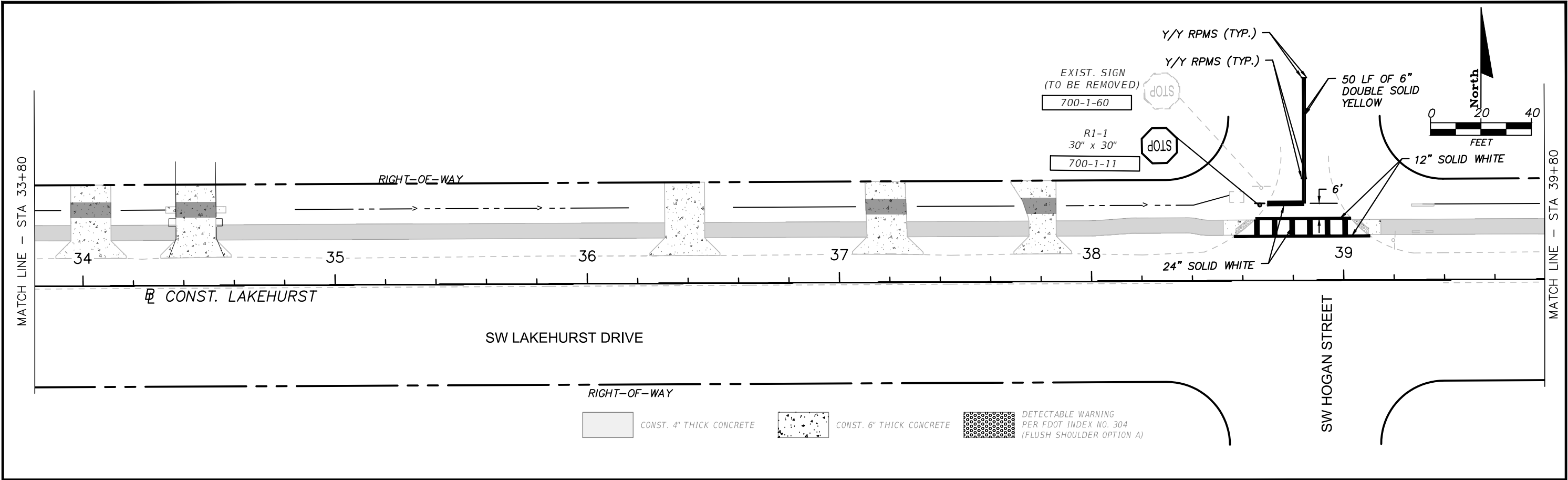


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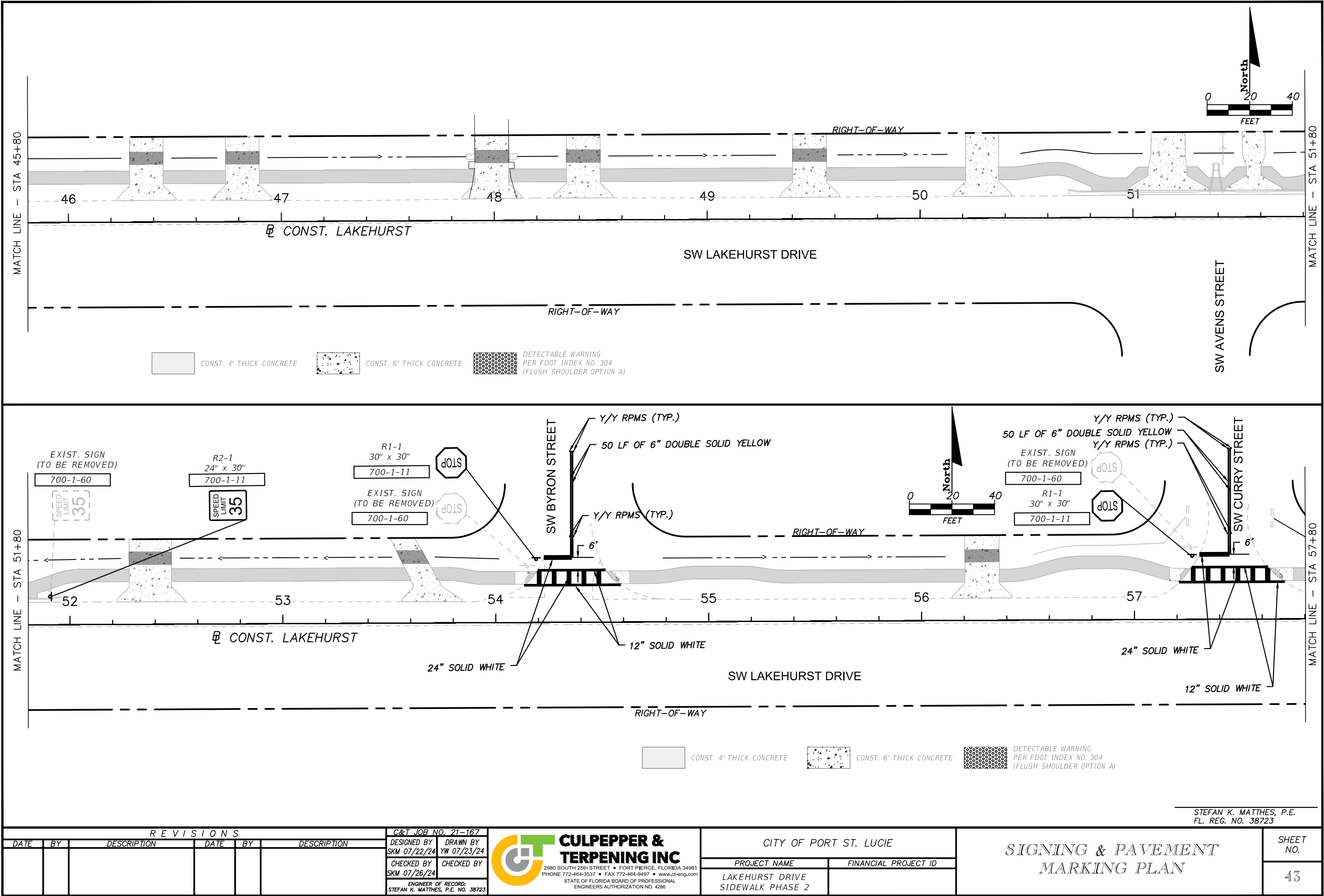
P:\Proj-2021\21-167 Lakehurst Drive Sidewalk - Design\Eng\21-167 - PH2 - SIGNING & PAVEMENT MARKING.dwg Plotted: 12/31/2024 4:20 PM By: YUANJI WANG



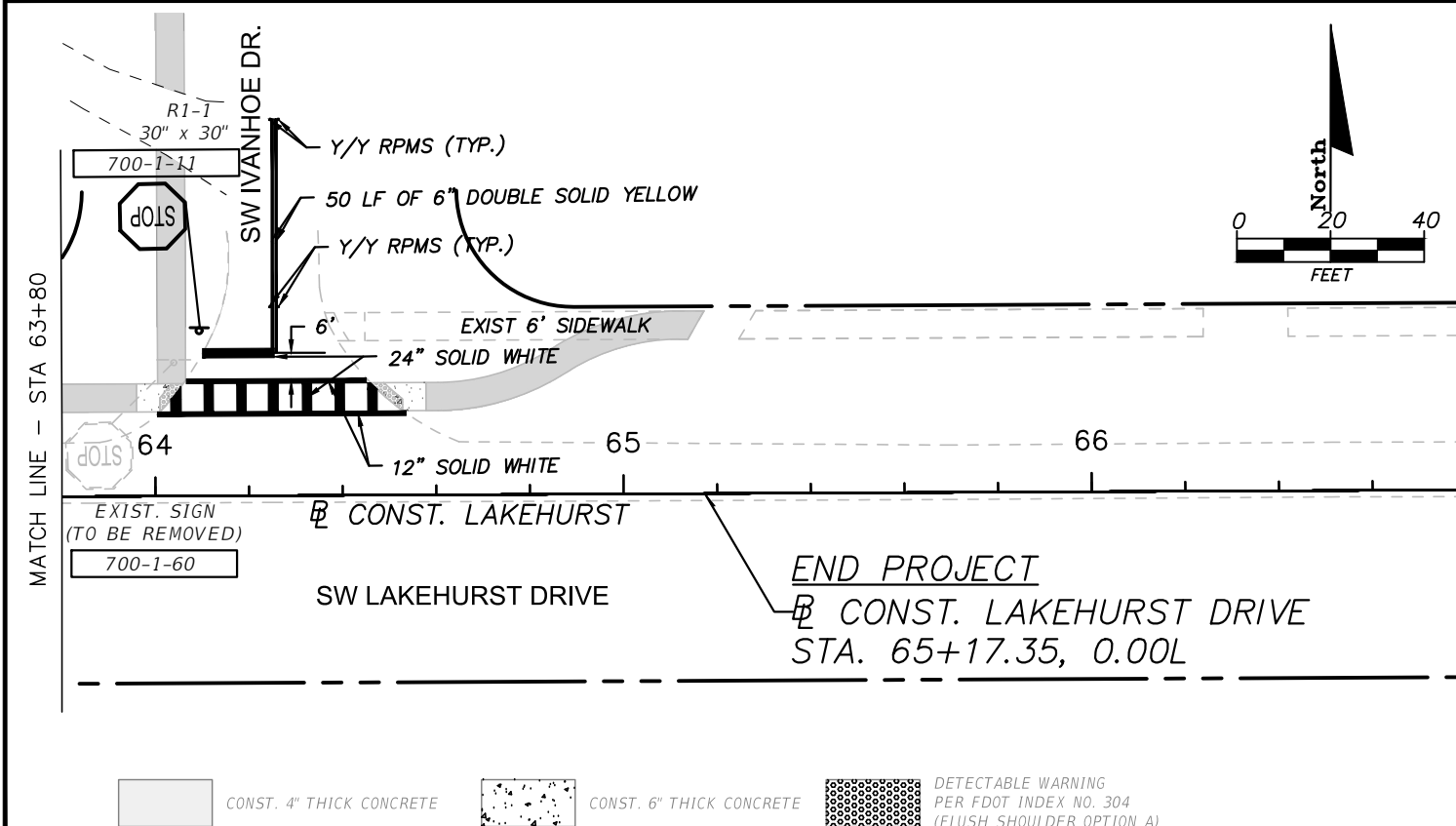
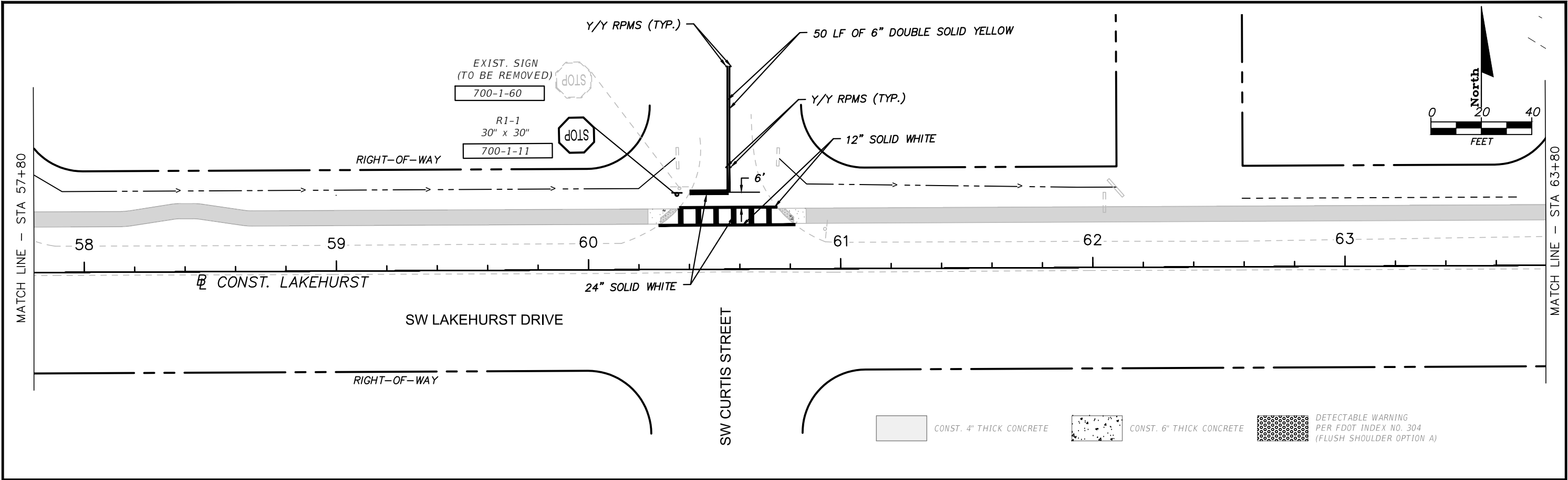
STEFAN K. MATTHES, P.E.  
FL. REG. NO. 38723

R E V I S I O N S						C&T JOB NO. 21-167		 <b>CULPEPPER &amp; TERPENING INC</b> 2980 SOUTH 25th STREET • FORT PIERCE, FLORIDA 34981 PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286	CITY OF PORT ST. LUCIE		SIGNING & PAVEMENT MARKING PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DESIGNED BY	DRAWN BY		PROJECT NAME	FINANCIAL PROJECT ID		42
						SKM 07/22/24	YW 07/23/24					
						CHECKED BY	CHECKED BY					
						SKM 07/26/24						
						ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723						

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GENERAL NOTES

1. ALL SIGNS AND PAVEMENT MARKINGS ARE TO BE PLACED IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), DATED 2023, THE "MANUAL ON STANDARDS HIGHWAY SIGNS", DATED 2012, AND THE "DESIGN STANDARDS" (FLORIDA DEPARTMENT OF TRANSPORTATION), DATED 2024-25.
2. SIGNS THAT ARE TO BE REMOVED FROM THE PROJECT SHALL BE STOCKPILED SEPARATELY FROM THOSE THAT ARE TO BE RELOCATED.
3. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAINT.
4. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF EXISTING LOOP AND LEAD-IN WIRES, TRANSMISSION LINES AND UNDERGROUND UTILITIES.
5. ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THIS PLAN, SHALL BE REMOVED BY HYDROBLASTING.
6. RELOCATED SIGNS SHALL BE PLACED ON A NEW POST (ROUND POST) AND HARDWARE THAT MEETS CURRENT STANDARDS.
7. REFLECTIVE PAVEMENT MARKERS (RPM) SHALL BE PLACED IN ACCORDANCE WITH FDOT INDEX NO. 706-001.
8. ALL NEW STOP SIGNS TO INCLUDE TWO ORANGE FLAGS EACH.
9. VMB'S SHALL BE PLACED ONE WEEK IN ADVANCE OF EACH NEW STOP SIGN AND LEFT IN PLACE TWO WEEKS AFTER INSTALLATION. WORDING ON MESSAGE SHALL CHANGE IN THE BEFORE AND AFTER CONDITION.

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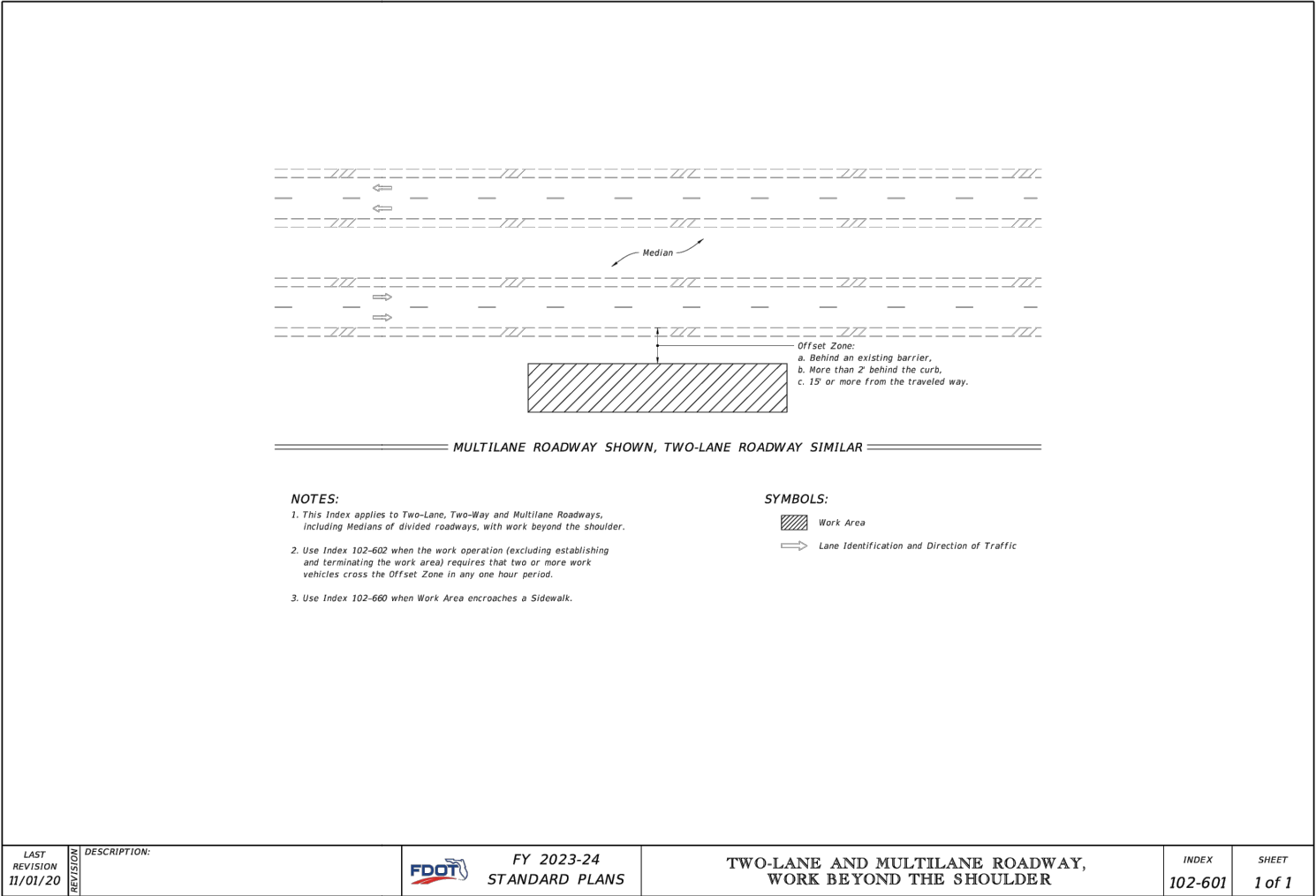
**CULPEPPER & TERPENING INC**  
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CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

SIGNING & PAVEMENT MARKING PLAN	SHEET NO.
	44

TRAFFIC CONTROL PLAN – GENERAL NOTES

1. ALL EXISTING PAVEMENT MARKINGS AND REFLECTIVE PAVEMENT MARKERS WHICH ARE DISTURBED OR REMOVED DUE TO TEMPORARY DETOURS AND/OR CONSTRUCTION OPERATIONS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX NO. 706-001 AND 711-001 AT NO ADDITIONAL COST TO THE CONTRACT.
2. WRITTEN NOTIFICATION TO CITY OF PORT ST. LUCIE PUBLIC WORKS DEPARTMENT OF PROPOSED LANE CLOSURE OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 30 WORKING DAYS IN ADVANCE OF CLOSURE OR DETOUR. TWO WEEKS BEFORE LANE CLOSURES, THE CONTRACTOR SHALL THEN CONTACT:
- CITY OF PORT ST. LUCIE PUBLIC WORKS DEPARTMENT  
450 SW THORNHILL DRIVE  
PORT ST. LUCIE, FL 34984  
PHONE: (772) 871-5100
- LANE CLOSING SHALL BE COORDINATED WITH SPECIAL EVENTS AND HOLIDAYS WHICH WOULD IMPACT TRAFFIC FLOW, ARROW PANELS SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED AT NO ADDITIONAL COST FOR LANE CLOSURE. LANE CLOSURES ARE LIMITED FROM 9:00 AM TO 4:00 PM.
3. THE PROVISIONS FOR TRAFFIC DISRUPTIONS WHICH ARE NOT ANTICIPATED IN THE TRAFFIC CONTROL PLAN, BUT WHICH ARE NECESSARY TO CONSTRUCT THE PROJECT, SHALL BE SUBMITTED IN WRITING TO THE ENGINEER AND APPROVAL SHALL BE OBTAINED 30 DAYS PRIOR TO THE COMMENCEMENT OF WORK. SUBMITTAL MATERIALS SHALL INCLUDE SKETCHES, CALCULATIONS, AND OTHER DATA REQUIRED BY THE ENGINEER.
4. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE CITY OF PORT ST. LUCIE TRAFFIC OPERATIONS ENGINEER TO MODIFY CHANNELIZATIONS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE TRAFFIC OPERATIONS ENGINEER WITHOUT DELAY.
5. THE LENGTH OF OPEN TRENCH SHALL NOT EXCEED 450 FEET. ALL TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING AT PROPERTY ACCESS POINTS BY THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE.
6. THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AT ALL TIMES BY USING EXISTING, PROPOSED AND TEMPORARY DRAINAGE SYSTEMS. THE COST OF FLUSHING, INSTALLING AND REMOVAL OF THE TEMPORARY DRAINAGE SYSTEMS SHALL BE INCLUDED IN PAY ITEM NO. 102-1, MAINTENANCE OF TRAFFIC.



LAST REVISION 11/01/20	DESCRIPTION:	FY 2023-24 STANDARD PLANS	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER	INDEX 102-601	SHEET 1 of 1
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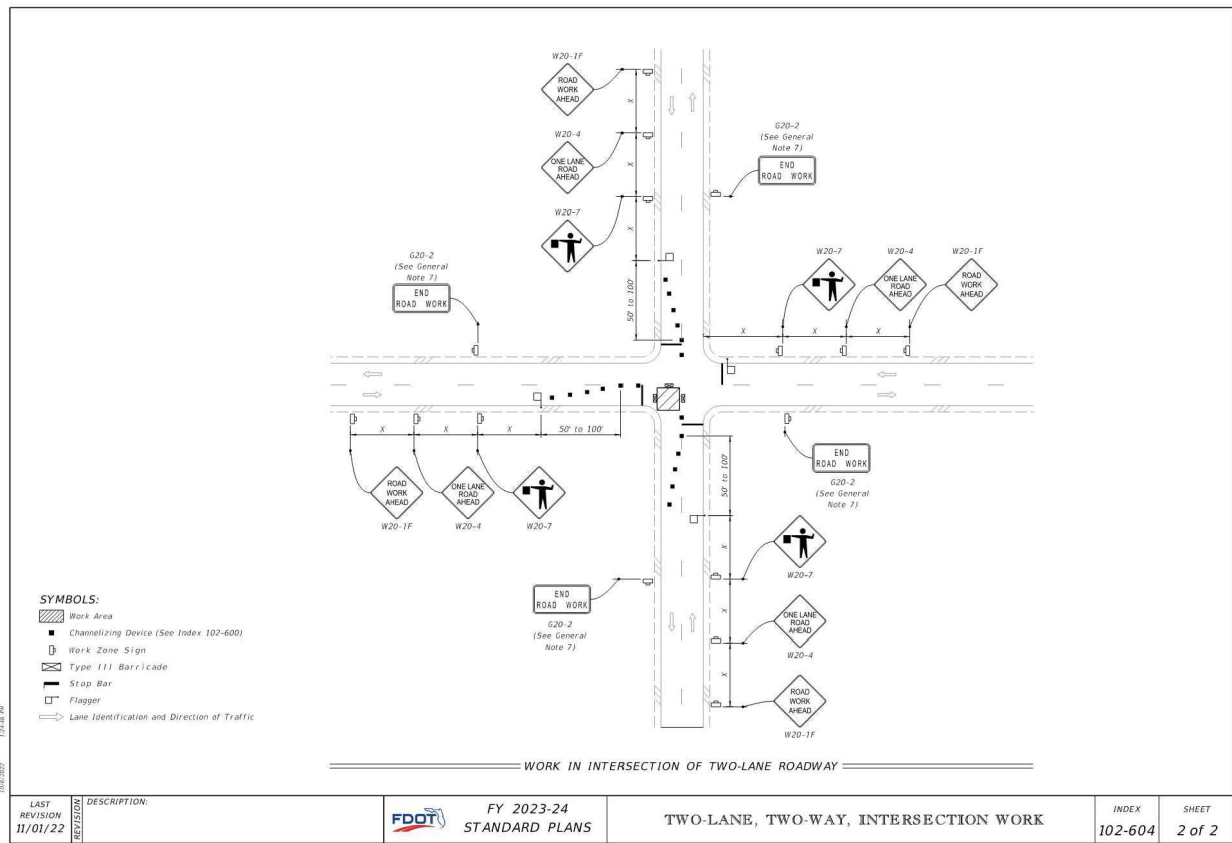
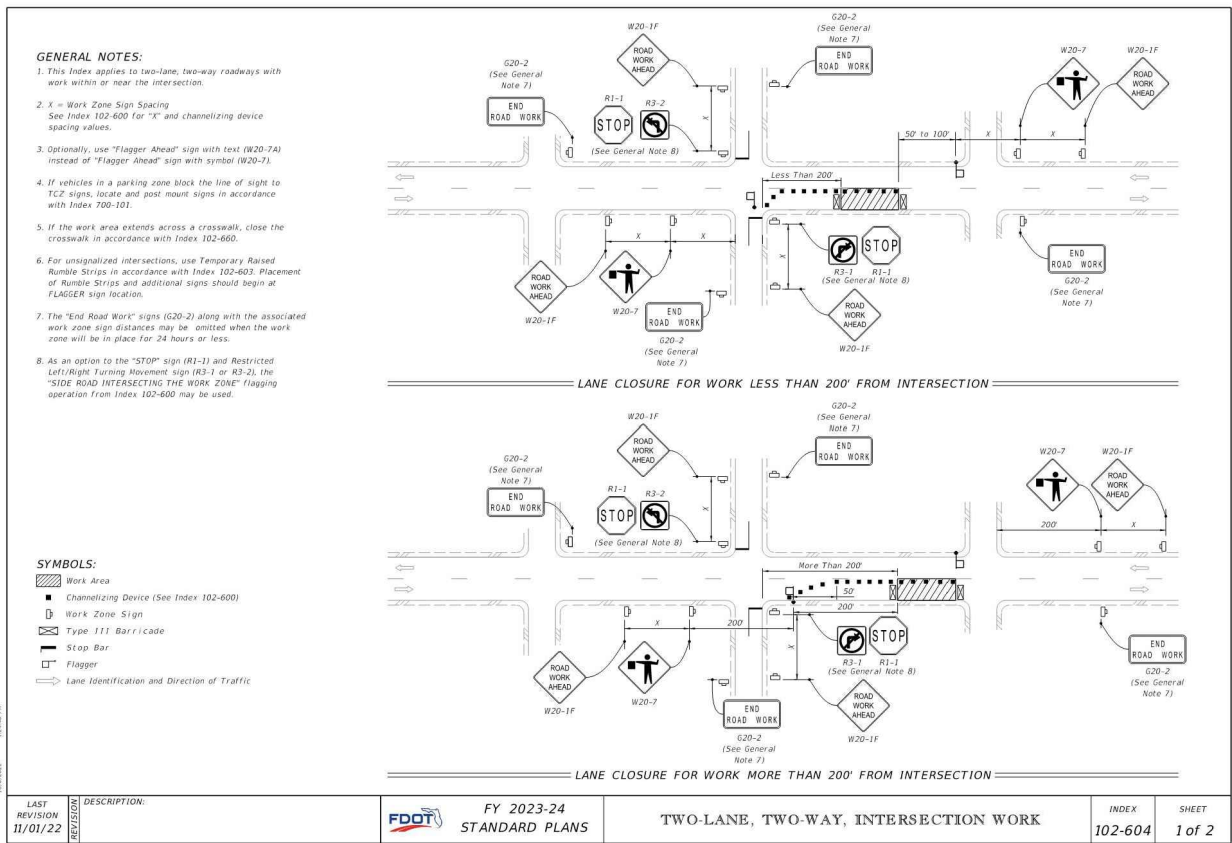
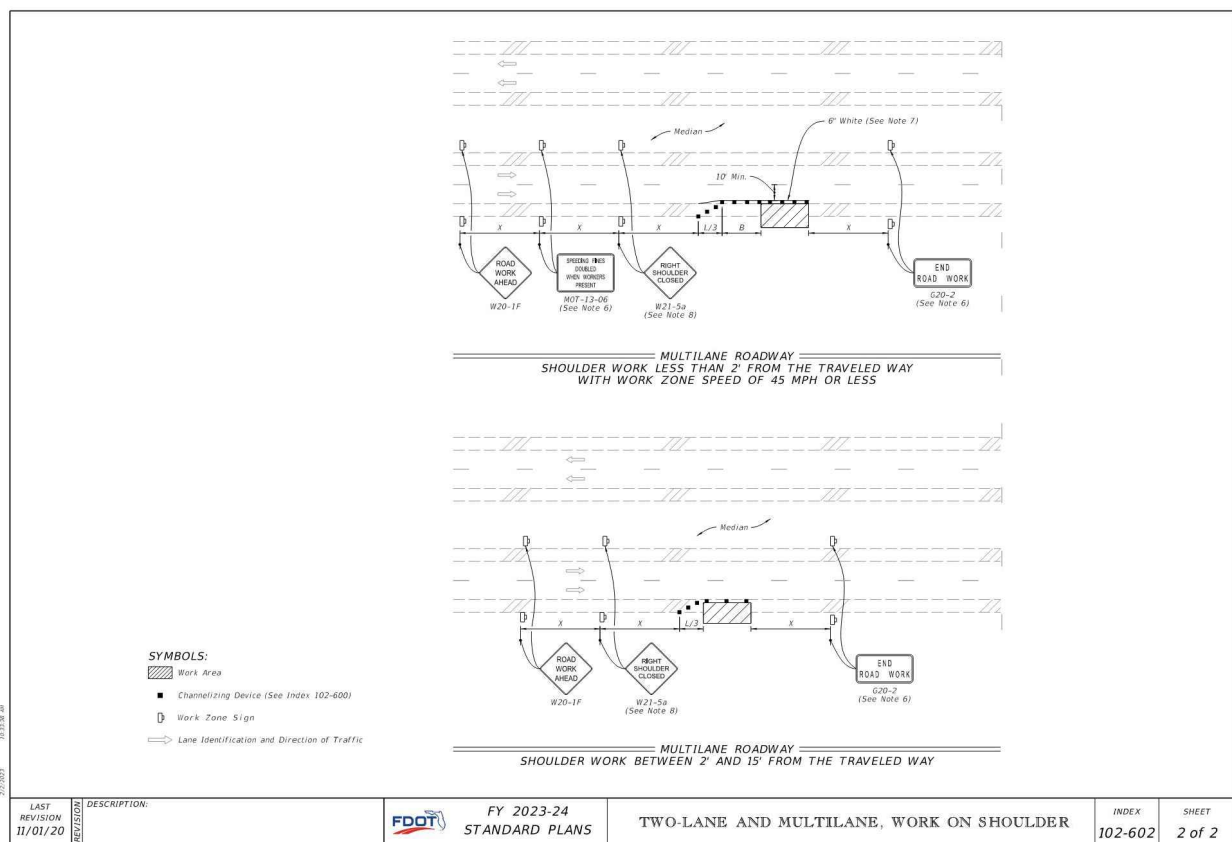
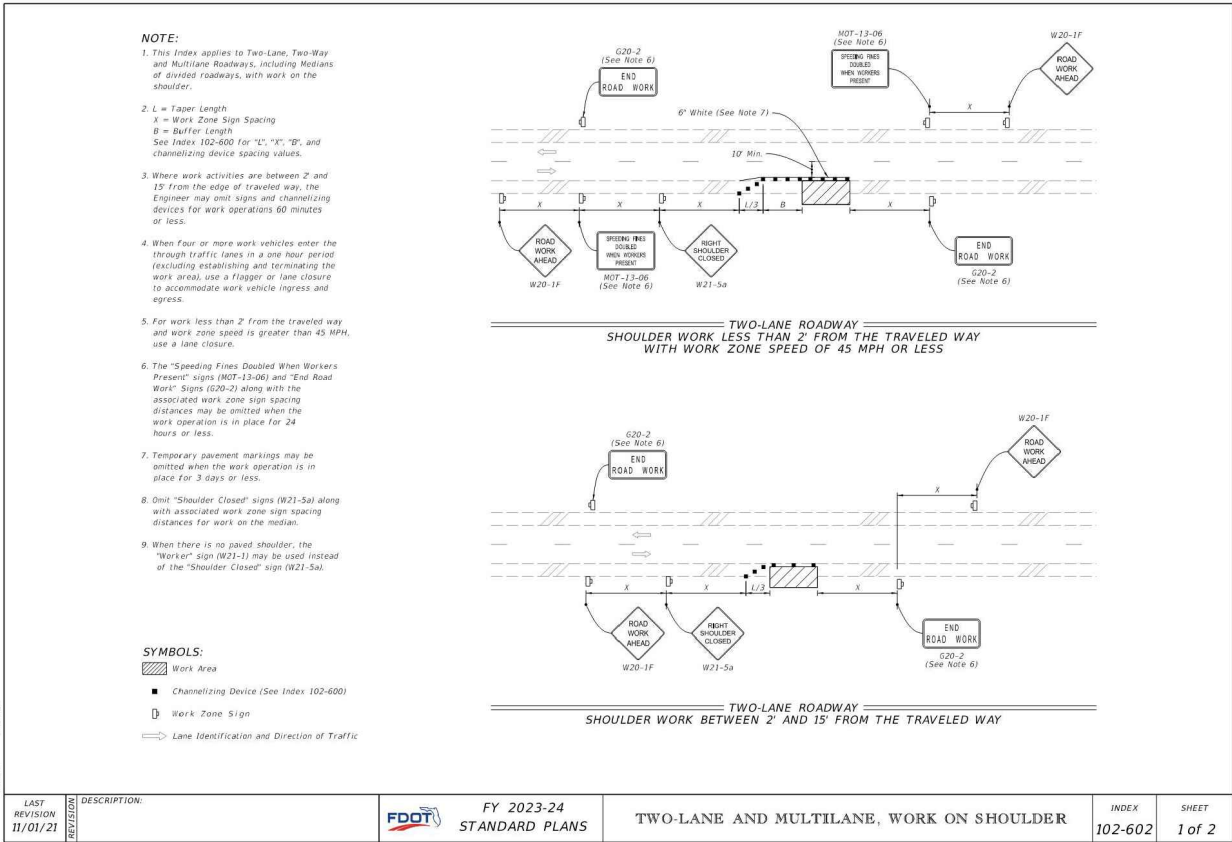
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CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

TRAFFIC CONTROL  
TYPICAL SECTION

SHEET NO.  
45





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CITY OF PORT ST. LUCIE	
PROJECT NAME	FINANCIAL PROJECT ID
LAKEHURST DRIVE SIDEWALK PHASE 2	

TRAFFIC CONTROL TYPICAL SECTION	

SHEET  
NO.

46