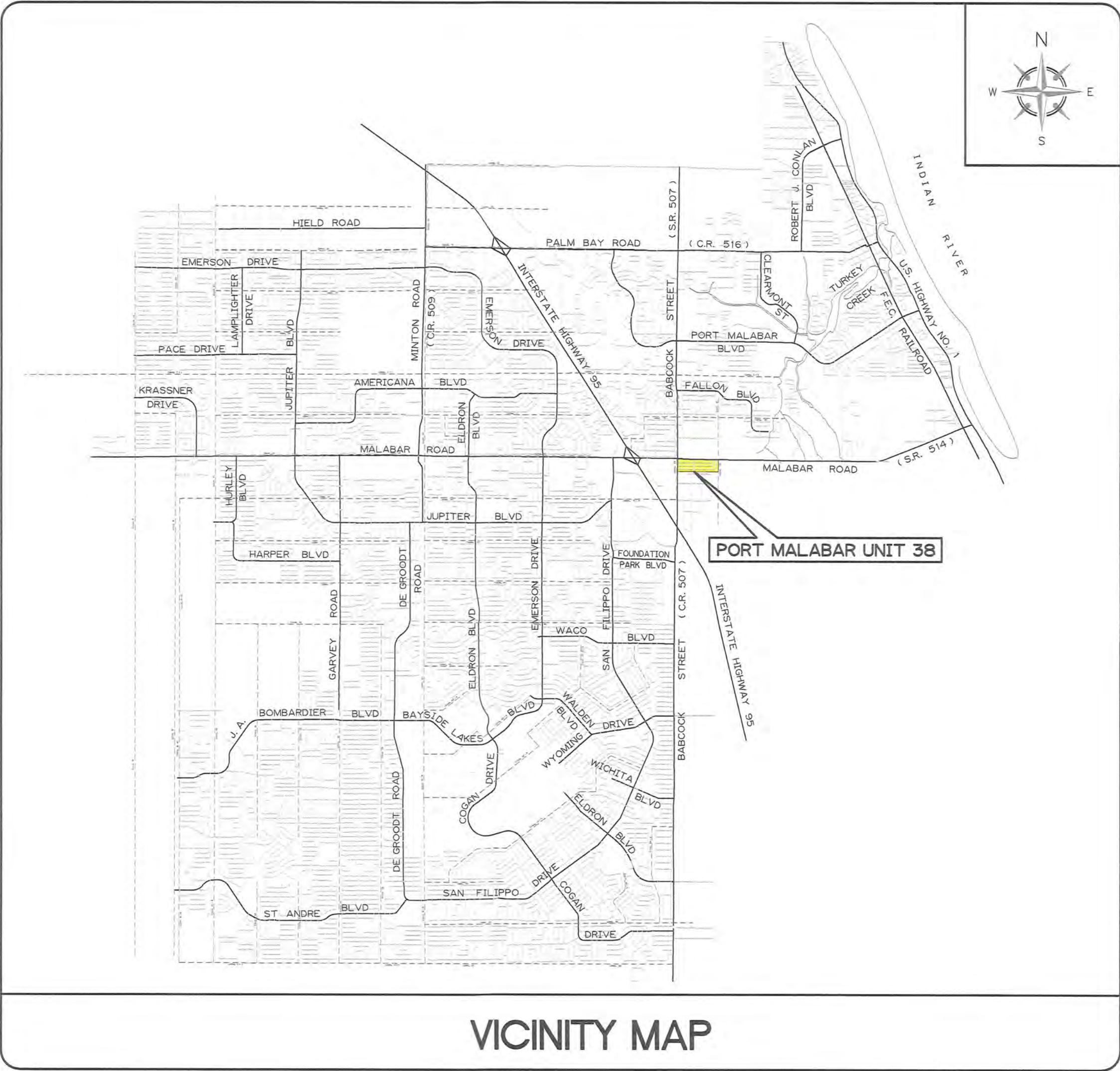


PORT MALABAR UNIT 38

ROAD PAVING

CONSTRUCTION PLANS

OCTOBER 2020



OWNER: CITY OF PALM BAY
120 MALABAR ROAD SE
PALM BAY, FLORIDA 32907

SITE ADDRESS: UNIT 38
PALM BAY, FLORIDA 32909


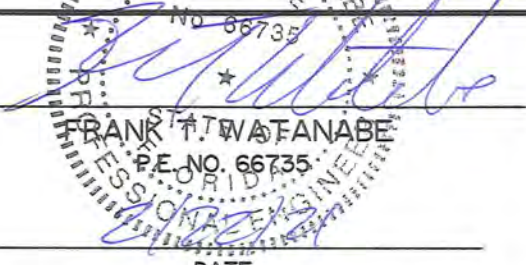
LOCATION: SECTION 3, TOWNSHIP 29 SOUTH, RANGE 37 EAST

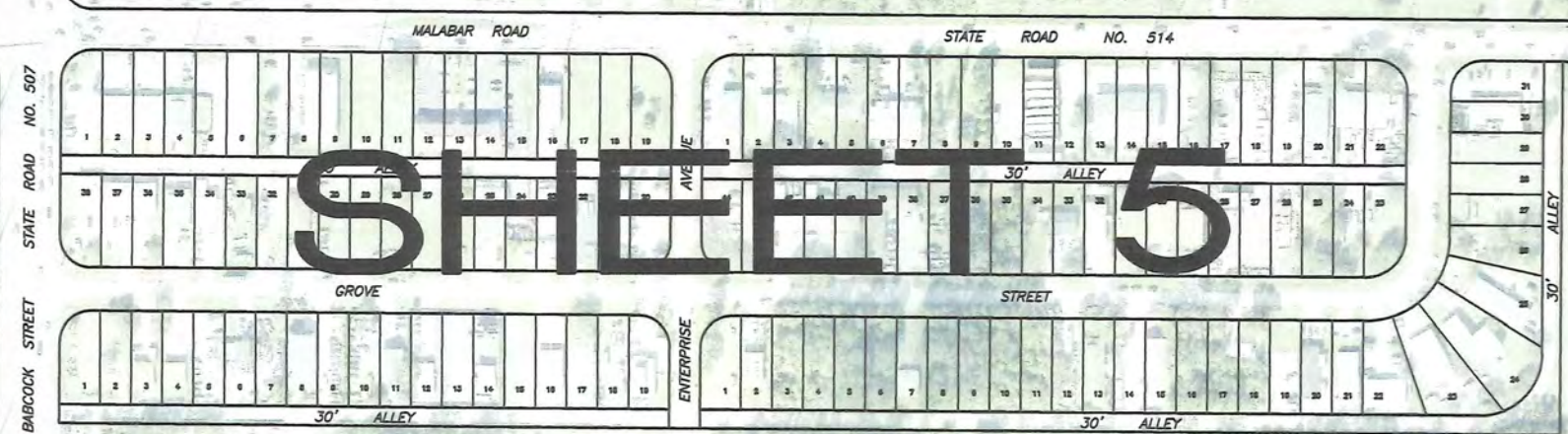
ZONING: GENERAL COMMERCIAL

PROJECT DESCRIPTION: MICRO-SURFACE PAVING = 8,247 L.F. / 1.56 MILES
TOTAL LENGTH OF ROAD = 8,247 L.F. / 1.56 MILES

UTILITIES ENCOUNTERED			
FLORIDA POWER AND LIGHT	(POWER)	(321) 726-4833	
SPECTRUM	(CABLE)	(321) 757-6451	
A T & T	(TELEPHONE)	(321) 258-9244	
PALM BAY UTILITY DEPARTMENT	(WATER & SEWER)	(321) 952-3410	

INDEX OF SHEETS	
1	COVER SHEET
2	SHEET INDEX
3	GENERAL NOTES
4	STORM WATER POLLUTION PREVENTION PLAN
5	PLAN VIEW
6	DETAIL SHEET

REV. NO.	DATE	BY	REVISION	DESIGNED BY FTW		CITY OF PALM BAY PUBLIC WORKS DEPARTMENT 1050 MALABAR ROAD S.W. PALM BAY, FLORIDA 32907 (321) 953-8996	PORT MALABAR UNIT 38 ROAD PAVING CONSTRUCTION PLANS COVER SHEET	DATE OCT 2020		PROJECT NUMBER 20-30
				DRAWN BY MH				SCALE HORIZ: N/A VERT: N/A		SHEET 1 of 6



REV. NO.	DATE	BY	REVISION

DESIGNED BY FTW
DRAWN BY MH
CHECKED BY FTW

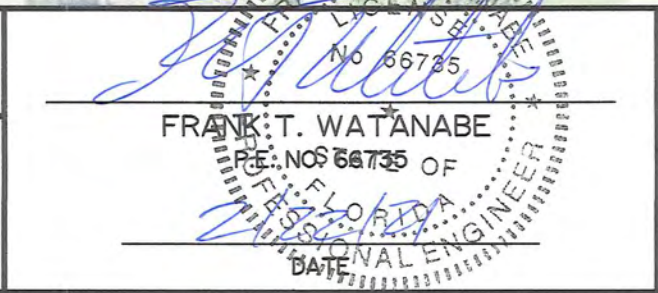


**CITY OF PALM BAY
PUBLIC WORKS DEPARTMENT**
1050 MALABAR ROAD S.W.
PALM BAY, FLORIDA 32907
(321) 953-8996

**PORT MALABAR UNIT 38
ROAD PAVING**

CONSTRUCTION PLANS
SHEET INDEX

DATE OCT 2020
SCALE HORIZ: 1" = 300'
VERT: N/A



PROJECT NUMBER 20-30
SHEET 2 OF 6

FILE NAME: K:\ENGINEERING\PROJECTS\PMU 38 ROAD PAVING 20-30\DESIGN\2030S02.DWG/8:50am/16 Sep 20

CONSTRUCTION NOTES

1. The Contractor is advised to thoroughly review this plan package so as to be totally prepared to present his/her bid prices in the contract documents. The plan package sufficiently delineates the scope and intent of the work to be accomplished. It will, therefore, be incumbent on the Contractor to adjust his / her fee dollars to reflect any and all items which may not be clearly outlined or those items which may not be indicated but which are necessary for the successful completion of this project without additional costs to the Owner.

2. All construction shall be in accordance with latest City of Palm Bay, FDOT Standards and Specifications and the Americans with Disabilities Act (ADA). Any deviations from design should be brought to City of Palm Bay engineer of record / staff for written approval prior to construction.

3. When referenced to, FDOT refers to the most recent edition of the Florida Florida Transportation Roadway and Traffic Standard Plans and Specifications.

4. The information shown on these drawings concerning type and location of underground and other utilities is based on available records and is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his / her own determination as to the type and location of underground and other utilities as may be necessary to avoid damage thereto and is responsible for the coordination of utility relocation.

5. Contractor shall locate all existing utilities in the field with utility owner's representative prior to construction and coordinate utility relocations, as necessary, with utility owners. Utility owners:

A T & T
700 N. Dixie Avenue
Titusville, FL 32909
Mr. Brian Coughlin (561) 329-6717

FLORIDA POWER & LIGHT DISTRIBUTION
9001 Ellis Road
West Melbourne, FL 32904
Ms. Elizabeth Saaz (321) 726-4833

PALM BAY UTILITY DEPARTMENT
250 Osmosis Drive SE
Palm Bay, FL 32909
Mr. Tim Roberts (321) 952-3410

SPECTRUM
720 Magnolia Avenue
Melbourne, FL 32935
Mr. Jerrold Kaiser (407) 215-5865

6. It is the responsibility of the Contractor to notify all utility companies a minimum of three working days prior to excavation, as required by the Underground Facility Damage Prevention and Safety Act. Notify Sunshine at (800) 432-4770.

7. Utilities are to be adjusted by utility owner or as directed by the Engineer. Coordinate with utility department on any existing utilities that may conflict with culvert replacement. The contractor to verify any utility conflicts and clearance prior to starting project via locations and pot hole digging. If the separation between the new drainage pipe and the utility in question is not more than 12 inches, the contractor shall coordinate with the utility owner to resolve the conflict prior to mobilization and the start of work.

8. Surface and subsurface information shown on these drawings was obtained for use in establishing design criteria for the project. The accuracy of this information is not guaranteed and is not to be construed as part of the plans governing construction of the project. It is the responsibility of the Contractor to inquire of the Engineer if additional information is available, to make arrangements to review same prior to bidding, and is to make his own determination as to all utilities and subsurface conditions.

9. Contractor shall notify the Engineer if soil or subsurface conditions unsuitable for construction are encountered.

10. All excavated soils deemed suitable as fill material, including millings and road milling materials, as determined by the Engineer shall be utilized on site or delivered to the Public Works facility located at 1050 Malabar Road in Palm Bay by the Contractor at his / her own expense. The exact location of delivery on site shall be determined by the Engineer. All excavated soils deemed unsuitable shall be disposed of by the Contractor at his / her own expense.

11. Items in conflict with design such as existing curbs and gutters, sidewalks, drainage structures, pavement and excess excavations are to be removed by the Contractor and disposed of in a legal and proper manner away from the job site at his / her own expense.

12. It should be noted that the Occupational Safety and Health Act prohibits the operating of equipment or machines closer than ten (10) feet to energized electric lines rated at fifty kilovolts or below. Also, no excavation is permitted within five (5) feet of power pole facilities.

13. All irons and monuments (P.R.M.'s) shown on plans, or found, shall be preserved. Those shown in proposed pavement shall be protected with a cast iron valve box.

14. Any public land corners within the limits of construction are to be protected. If a corner monument is in danger of being destroyed or disturbed, the Contractor will notify the Engineer.

15. It is the responsibility of the Contractor to locate (before any operations commence) and replace (after all operations have been completed) all Permanent Control Points (PCPs) existing in the project area and shown on the applicable Record Plat. Location and replacement will be done by a Licensed Professional Surveyor and Mapper according to the applicable Florida State Statutes in Chapter 5J-17, Board of Professional Surveyors and Mappers. After replacement, City of Palm Bay staff will review the work for completeness and accuracy.

16. All existing trees within the right of way are to be removed as clearing and grubbing unless otherwise noted.

17. The Contractor shall restore all areas disturbed by construction to a condition equal to, or better than, that now existing.

18. Backfill, grade and sod as required around all new construction and all developed lots to prevent erosion. Seed and mulch will only be allowed to restore undeveloped lots affected by construction or as directed by the Engineer.

19. Sod two (2) feet minimum along side proposed edge of pavement and ten (10) feet around all structures.

20. Grade and sod swales ten (10) feet from proposed ditch bottom inlets, headwalls and mitered end sections on side streets as required. Re-grade ditch / swale for positive flow as needed or as shown on the plans (3:1 max side slopes).

21. Property owners and businesses within the area of construction shall be given access to their property at all times during the period of construction. Provide business guidance signs as necessary.

22. All mailboxes shall be relocated by the Contractor as directed by the U.S. Postal Mail Carrier.

23. The Contractor shall remove, cover or obliterate existing roadway sign and pavement markings that conflict with construction traffic control plans.

24. Contractor to protect all sprinkler heads not in conflict with design and relocate all those which are in conflict to a location determined in the field.

25. The Contractor is required to perform his work in accordance with the requirements of the various permits which will be obtained prior to beginning construction.

26. The Contractor shall provide any temporary drainage measures as required to adequately drain the project and any temporarily traveled roadways. Temporary drainage design, construction and maintenance is the Contractor's responsibility; however, all such measures must be approved by the Engineer.

27. The existing sidewalk shall not be disturbed unless otherwise noted.

28. Grades shown are finished grades. Transition C/L road elevation at a maximum PVI difference not to exceed 1% with cross slope 2%. plans (3:1 max side slopes).

29. Sawcut concrete or asphalt driveways as required for replacement.

30. All abandoned utilities (including pipes, cables and structures) found in the right of way and not shown on the plans, are to be removed and properly disposed of at the expense of the Contractor. This includes all exotic pipes like asbestos-cement pipe. Cost to be included in clearing and grubbing item.

31. Driveway locations and widths are approximate and are to be adjusted as necessary or as directed by the Engineer.

32. B.M. data is National Geodetic Vertical Datum of 1929 (N.G.V.D.-29). Conversion to NAVD 88 is (-) 1.38.

33. Backfill and sod as required beyond right of way lines on individual lots to maintain positive drainage flow into curb and gutter.

34. It is the Contractor's responsibility to maintain B/L (baseline) and C/L (centerline) construction throughout the project.

35. The Contractor shall submit a construction schedule (sequence of operations) prior to the pre-construction meeting, with monthly updates through project completion.

36. The Contractor shall remove driveway aprons and driveway culverts and shall maintain rough grade for utility modifications.

37. All existing swales shall be protected by the Contractor. Any damage to the swale line shall be corrected by the Contractor at his own expense.

38. Payment for incidental items not specifically covered in the individual Bid Items shall be included in the contract prices for Bid Items.

39. Maintain a minimum of one (1) foot clearance between power pole and edge of sidewalk.

40. When all permanent construction is complete, the final surface course shall be placed.

41. Construction operations for placement of the final surface course shall be limited to a distance, as directed by the Engineer, the Contractor can complete in one (1) day.

42. The Contractor shall implement temporary pavement markings until the final surface course has cured (minimum thirty (30) days after final surface course placement). Any temporary painted markings placed on the final surface course must match final design markings (thermoplastic markings).

43. All culvert installation shall be per culvert manufacturer specifications for culvert installation and compaction requirements. It shall be the Contractors responsibility to familiarize himself with those requirements prior to installation.

44. Contractor to provide all shop drawings and material specifications to be used on the job to the City of Palm Bay Public Works for approval prior to use on the job.

45. Newly place headwalls shall be placed no closer than ten feet from edge of pavement or as shown unless approved in writing from the engineer of record.

46. The cross sections on these plans are for "only" the paved swale crossings.

MAINTENANCE OF TRAFFIC NOTES

1. The Contractor shall develop a Maintenance of Traffic plan for all work performed in the public right-of-way. This plan shall be in written form and include plan sheets which indicate the type and location of all signing, lighting, barricades, striping, etc. At the time of the pre-construction meeting, this plan shall be submitted to the City of Palm Bay Public Works Department, Engineering Division, for approval. This Maintenance of Traffic plan shall be in accordance with the most current edition of the Florida Department of Transportation Standard Plans Index 102 - Maintenance of Traffic and MUTCD latest requirements.

2. Traffic shall be maintained or rerouted and protected at all times. Signs, barricades and lights shall be provided in accordance with the Florida Department of Transportation Standard Plans Index 102 - Maintenance of Traffic and MUTCD latest requirements.

3. The Contractor shall maintain all existing roadside signs not in conflict with construction and MUTCD latest requirements.

EROSION CONTROL/WATER QUALITY NOTES

1. The Contractor must select, implement and operate all erosion and sediment control measures as required to retain sediment on site and to prevent violations of water quality standards as specified in Chapters 17-301, 17-302 and 17-4, F.A.C. The Contractor is encouraged to use appropriate best management practices for erosion and sediment described in the Florida Land Development Manual: A Guide to Sound Land and Water Management, (DER, 1988).

2. The Contractor shall be responsible for additional control devices based upon his / her operations.

3. All erosion control/water quality devices shall be in accordance with Section 104 of the latest edition of the FDOT "Standard Specifications for Road and Bridge Construction". The entrance of all inlets shall have either synthetic bales (no hay) or filter fabric silt protection. Silt fences and/or turbidity barriers shall be installed at all off site discharge outlet structures. All erosion control/water quality devices shall be left in place until the disturbed site is completely stabilized and/or vegetated.

4. The Contractor shall maintain adequate soil moisture to prevent wind generated soil erosion. All surfaces that will be exposed for seven (7) or more days shall be vegetated with a temporary or permanent cover.

5. The Contractor shall be responsible for all dewatering for construction of drainage systems, roadway base and subbase, where applicable. The Contractor shall also be responsible for all applicable dewatering permits.

6. All side slopes of the drainage right of ways shall not be disturbed. Any washout into the drainage right of ways shall be dredged and stabilized.

UTILITY ADJUSTMENT NOTES

1. It is the Contractor's responsibility to maintain FDEP minimum vertical and horizontal separation distances in accordance with FAC 62-555-314 (1-4).

If the above separation cannot be maintained, documented exception must be obtained by FDEP and submitted to the utilities engineer prior to construction.

2. All piping shall have three (3) feet minimum cover below existing or design elevations, which ever is lower. The Contractor shall take care to provide proper grade elevations and alignments. If three (3) feet minimum cover cannot be maintained, the proposed line shall be constructed of ductile iron and /or encased in concrete.

3. All paving, stabilized earth, driveways, curbs, sidewalks, fences, sod, landscaping, etc., disturbed by the Contractor's operations shall be replaced with material to match existing conditions. All road crossings are asphalt unless otherwise noted.

4. Piping installed within the County or City right of way shall be placed a minimum of six (6) feet, maximum ten (10) feet away from the right of way.

5. The Contractor is solely responsible for the installation of the piping without damaging the existing roadway except where open cuts are required and as shown on plans. Any damage caused during the installation of the piping or restoration shall be repaired to the satisfaction of the City of Palm Bay.

6. The Contractor shall not place any fill material within wetted ditch or wetland areas. Contractor shall install siltation fences between work and such areas when working adjacent to either type of area.

7. All raw water and potable water lines installed shall be disinfected in accordance with AWWA C-651. Such water lines shall then be bacteriologically tested in accordance with state and local requirements. A utility representative must be present during the taking of all water samples.

8. The Contractor is responsible for checking dimensions and site conditions and shall report any discrepancies to the Engineer prior to commencement or continuation of ongoing construction.


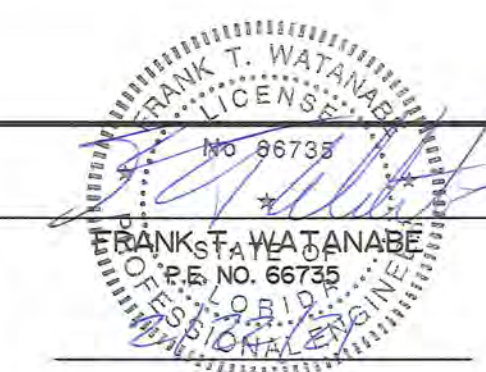
9. The Contractor shall comply with all OSHA and City trench safety standards and requirements.

10. The Contractor shall locate all existing water mains at proposed tie-in locations to verify actual location, size, elevation and material prior to ordering new materials.

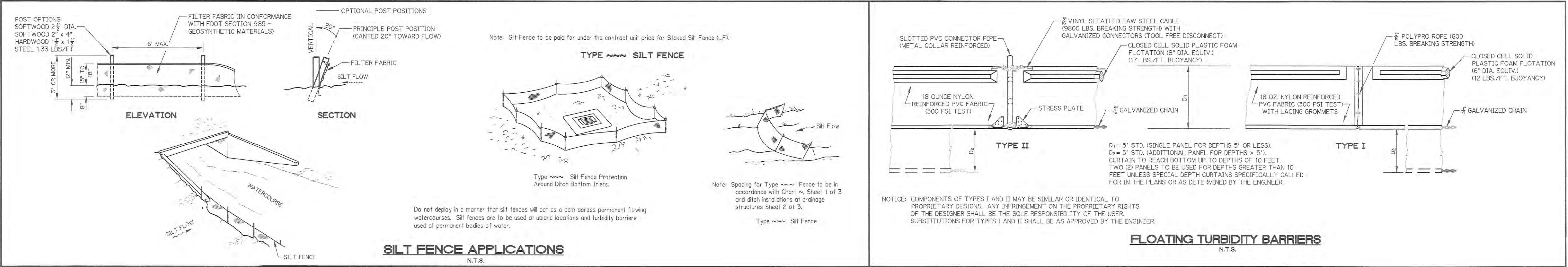
11. All pipe fittings shall be ductile iron compact fittings in accordance with specification Section 15062 of the City of Palm Bay Utilities Department Policies, Procedures and Standard Handbook.

12. The upstream side of a sub-aqueous crossing must have an isolation valve in a sealed box with 1" taps made on each side of the valve connecting 1" ball valves as per the "recommended standards for water works 2003 edition". See detail sheets.

13. All utility valve boxes, manhole frames and covers must be adjusted to finished grade elevation.

				DESIGNED BY FTW	 <div>CITY OF PALM BAY PUBLIC WORKS DEPARTMENT 1050 MALABAR ROAD S.W. PALM BAY, FLORIDA 32907 (321) 953-8996</div>	PORT MALABAR UNIT 38 ROAD PAVING CONSTRUCTION PLANS GENERAL NOTES	DATE OCT 2020		PROJECT NUMBER 20-30
			DRAWN BY MH	SCALE HORIZ: N/A VERT: N/A			SHEET 3 OF 6		
			CHECKED BY FTW						
REV. NO.	DATE	BY	REVISION						

FILE NAME: K:\ENGINEERING\PROJECTS\PMU 38 ROAD PAVING\20-30\DESIGN\203030603_1.DWG/10/5/2016 16 Sep 20



SWPPP COORDINATOR DUTIES

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING AND ALL OTHER REQUIREMENTS OF THE USEPA, FDEP, SJRWMD AND THE CITY OF PALM BAY REGULATIONS:

1. MAINTAIN RECORDS OF CONSTRUCTION ACTIVITIES, INCLUDING:
 - DATES WHEN MAJOR GRADING ACTIVITIES OCCUR
 - DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY CEASE ON A PORTION OF THE SITE
 - DATES WHEN STABILIZATION MEASURES ARE INITIATED ON SITE
 - RECORDS MUST BE MAINTAINED AT THE JOB SITE
2. PREPARE INSPECTION REPORTS SUMMARIZING:
 - QUALIFICATIONS OF INSPECTOR
 - DAILY RAINFALL TOTALS
 - MEASURES / AREAS INSPECTED
 - CHANGES NECESSARY TO THE SWPPP
 - INSPECTIONS SHALL BE COMPLETED ON A WEEKLY BASIS AND AFTER RAINFALL EVENTS EXCEEDING 1/2" INTENSITY
3. A SAMPLE INSPECTION FORM SHALL BE SUPPLIED TO THE CONTRACTOR FOR HIS USE. CONTRACTOR MUST UTILIZE THIS INSPECTION FORM OR AN APPROVED EQUIVALENT.
4. CONTRACTOR MUST EXECUTE NPDES CERTIFICATION FORM AND INSURE THAT ALL SUBCONTRACTORS RESPONSIBLE FOR EROSION CONTROL MEASURES EXECUTE THE NPDES CERTIFICATION FORM. COPIES OF THIS CERTIFICATION MUST BE PROVIDED TO THE OWNER PRIOR TO THE START OF ANY NEW CONSTRUCTION AND COPIES SHALL BE MAINTAINED AT THE JOB SITE.
5. REPORT RELEASES OF REPORTABLE QUANTITIES OF OIL OR HAZARDOUS MATERIALS (IF THEY OCCUR):
 - NOTIFY THE STATE WARNING POINT @ 1-800-320-0519 OR 850-413-9911.
 - NOTIFY NATIONAL RESPONSE CENTER @ 1-800-424-8802
 - NOTIFY FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION - NPDES STORMWATER SECTION - MAIL STATION 2500, 2600 BLAIR STONE ROAD, TALLAHASSEE, FL 32399-2400 IN WRITING WITHIN 14 DAYS.
 - MODIFY THE POLLUTION PREVENTION PLAN TO INCLUDE IMPROVED MANAGEMENT CONTROLS
 - THE (SWPPP) MUST BE MODIFIED WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE TO PROVIDE A DESCRIPTION OF THE RELEASE, THE CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF THE RELEASE.
6. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL RESULTING FROM AN ON-SITE SPILL.
7. MODIFY THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS NECESSARY TO:
 - COMPLY WITH MINIMUM PERMIT REQUIREMENTS WHEN NOTIFIED BY THE EPA, ADDRESS CHANGES IN DESIGN, CONSTRUCTION OPERATION OR MAINTENANCE WHICH HAVE AN AFFECT ON THE POTENTIAL FOR DISCHARGE OF POLLUTANTS INTO STATE WATERS
 - PREVENT REOCCURRENCE OR REPORTABLE QUANTITY RELEASES OF HAZARDOUS MATERIAL, OIL AND / OR FUEL
8. AT THE COMPLETION OF THE PROJECT AND AS A CONDITION OF FINAL PAYMENT, CONTRACTOR SHALL PROVIDE THE OWNER WITH TWO COPIES OF THE ABOVE DESCRIBED REPORTS IN A CONSOLIDATED REPORT FORMAT - THREE RING BINDERS OR EQUIVALENT.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING AND MAINTAINING A COPY OF DEP DOCUMENT NO. 62-621300(4)(A). THIS PERMIT IS THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR STORM WATER DISCHARGE FROM CONSTRUCTION ACTIVITIES THAT DISTURB ONE OR MORE ACRES OF LAND.

GENERAL MAINTENANCE PLAN

THE FOLLOWING MAINTENANCE PLAN IS GENERAL IN NATURE AND IS INTENDED TO PROVIDE A GUIDELINE FOR THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE THE PROJECT IN CONFORMANCE WITH THE NPDES STANDARDS AND APPROVED PLANS AND PERMITS.

SHORT TERM:

1. ALL EROSION CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY 1/2" RAINFALL EVENT, BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ALL NEEDED REPAIRS WILL BE RECORDED AND MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT BUILDUP WILL BE CLOSELY MONITORED AND REMOVED FROM INLET PROTECTION DEVICES TO ENSURE PROPER MANAGEMENT AND STORAGE CAPACITIES. SEDIMENT CONTROL DEVICES SHALL BE CLEANED OR REPLACED WHEN THE SEDIMENT CONTROL NO LONGER WORKS EFFECTIVELY AS DESIGNED.
3. THE SEDIMENT CONTROLLING SILT FENCE SHALL BE MAINTAINED AND / OR REPLACED AS NECESSARY TO MAINTAIN A BARRIER.
4. ALL SEEDED AREAS SHALL BE RESEDED, AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VEGETATIVE COVER, ADEQUATE TO PREVENT EROSION TO OFF SITE AREAS.
5. AS NEEDED, NEW OR ADDITIONAL WORKERS WILL BE INFORMED OF THE PLAN DETAILS IN THE OPERATION AND MAINTENANCE OF PLAN FEATURES.

LONG TERM:

1. ALL VEGETATED AREAS WILL BE MAINTAINED IN ADEQUATE CONDITION TO PROVIDE PROPER GROUND COVER, THEREBY REDUCING EROSION POTENTIAL.
2. AREAS WHERE VEGETATION IS LOST WILL BE RESTABILIZED AND MAINTAINED AS NECESSARY TO RESTORE PROPER GROUND COVER.
3. STRUCTURAL MEASURES WILL BE EXAMINED AT LEAST ANNUALLY AND MAINTENANCE PERFORMED AS NEEDED.

GENERAL CONSTRUCTION SEQUENCING PLAN

THE FOLLOWING CONSTRUCTION SEQUENCING IS GENERAL IN NATURE AND IS INTENDED TO PROVIDE A GUIDELINE FOR THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE THE PROJECT IN CONFORMANCE WITH THE NPDES STANDARDS AND APPROVED PLANS AND PERMITS.

1. OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
2. FLAG THE WORK LIMITS OF CONSTRUCTION AND IDENTIFY AREAS NOT TO BE DISTURBED.
3. HOLD PRE CONSTRUCTION CONFERENCE AT LEAST ONE WEEK PRIOR TO STARTING CONSTRUCTION. WEEKLY REVIEWS OF EROSION, SEDIMENT AND STORM WATER CONTROLS WILL BE CONDUCTED. REVIEWS WILL ALSO BE CONDUCTED WITHIN 24 HOURS FOLLOWING ALL RAIN EVENTS EXCEEDING 1/2" INTENSITY. BI-WEEKLY PROGRESS MEETINGS WILL BE CONDUCTED FOLLOWING CONSTRUCTION START.
4. INSTALL EROSION AND SEDIMENT CONTROLS, SEDIMENT BASINS AND TRAPS AS THE FIRST CONSTRUCTION ACTIVITY.
5. INSTALL STABILIZED TEMPORARY CONSTRUCTION ENTRANCE / EXIT, AS NECESSARY.
6. COMPLETE SITE CLEARING AND EXCAVATION EXCEPT FOR AREAS DESIGNATED NOT TO BE DISTURBED.
7. ROUGH GRADE SITE, STOCKPILE TOPSOIL, CONSTRUCT WATERWAYS, INSTALL CULVERTS AND OUTLET PROTECTION (INSTALL SEDIMENT CONTROLS AND SILT FENCING AS NEEDED). BARE AREAS OF EXPOSED LAND SHALL BE MULCHED AND SEEDED ONCE GRADING HAS BEEN COMPLETED.
8. FINISH THE SLOPES OF PONDS AS SOON AS ROUGH GRADING IS COMPLETE.
9. COMPLETE FINAL GRADING OF GROUNDS, TOPSOIL CRITICAL AREAS AND PERMANENTLY VEGETATE, LANDSCAPE AND MULCH.
10. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND FOLLOWING 1/2" RAINFALL EVENTS. NEEDED REPAIRS WILL BE RECORDED WITHIN 24 HOURS AND CORRECTED IMMEDIATELY.
11. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.

CONTROL OF OTHER POTENTIAL POLLUTANTS

1. WASTE DISPOSAL: ALL WASTE, SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER AND SANITARY WASTE ARE TO BE PROPERLY CONTROLLED IN ACCORDANCE WITH APPLICABLE STATE, LOCAL AND FEDERAL REGULATIONS.
2. THE APPLICATION, GENERATION AND MITIGATION OF TOXIC SUBSTANCES SHALL BE LIMITED AND THAT TOXIC MATERIALS ARE PROPERLY STORED AND DISPOSED.

STORMWATER MANAGEMENT CRITERIA

NOTE: SEE STORMWATER MANAGEMENT CRITERIA FOR MINIMUM STANDARDS.

THIS PLAN IS INTENDED TO COMPLY WITH APPROPRIATE CONDITIONS OF THE CITY OF PALM BAY REGULATIONS, THE RULES OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 17-25, F.A.C., AND THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT, DURING ALL CONSTRUCTION ACTIVITIES. THE PLAN ADDRESSES THE FOLLOWING AREAS:

1. GENERAL EROSION CONTROL.
2. PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION.
3. CONTROL OF WIND EROSION.

PROJECT LOCATION

GENERAL SITE INFORMATION

SITE DESCRIPTION:

THE IMPROVEMENT AREA CONSISTS OF APPROXIMATELY 1.56 MILES OF MICRO-SURFACE ROAD PAVING.

LATITUDE: 27.997285 / LONGITUDE: -80.618643

TOTAL AREA AND DISTURBED AREA:

THE MICRO-SURFACE ROAD PAVING AREA TO BE DISTURBED IS APPROXIMATELY 3.96 AC. THE TOTAL DISTURBED AREA IS 3.96 AC.

QUALITY RECEIVING SURFACE WATERS AND WETLANDS:

THE RECEIVING WATER BODIES FOR THE IMPROVEMENTS ARE THE EXISTING MELBOURNE TILLMAN WATER CONTROL DISTRICT CANALS AND ULTIMATELY DISCHARGE INTO THE INDIAN RIVER LAGOON OR THE ST. JOHNS RIVER.

SOIL STABILIZATION:

THE PURPOSE OF SOIL STABILIZATION IS TO PREVENT SOIL FROM LEAVING THE SITE. THE PRIMARY TECHNIQUES TO BE USED AT THIS PROJECT FOR STABILIZATION AFTER CONSTRUCTION WILL BE TO PROVIDE PROTECTIVE TURF GRASS, RUBBLE AND REINFORCEMENT MAT. STABILIZING MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 7 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

STORM WATER POLLUTION PREVENTION MEASURES & CONTROLS:

THERE ARE A VARIETY OF CONTROLS PROPOSED FOR THIS SITE. SOME CONTROLS ARE INTENDED TO FUNCTION TEMPORARILY AND WILL BE USED AS NEEDED FOR POLLUTANT CONTROL. THESE INCLUDE TEMPORARY SEDIMENT BARRIERS AND SILT FENCES. FOR MOST DISTURBED AREAS, PERMANENT STABILIZATION WILL BE ACCOMPLISHED BY COVERING THE SOIL WITH VEGETATION.

EXISTING SOIL TYPES:

THE SOIL TYPES ARE IDENTIFIED ON THE SOIL CONSERVATION SURVEY OF BREVARD COUNTY.

NOTES:

ACCESS SHALL BE PROVIDED BY AN UNOBSTRUCTED ALL WEATHER DRIVING SURFACE CAPABLE OF SUPPORTING THE LOADS IMPOSED BY RESPONDING APPARATUS OF NOT LESS THAN 20 FEET AND SHALL BE MAINTAINED DURING CONSTRUCTION. THE LOCATION OF EROSION CONTROL FEATURES SHOWN ON THIS PLAN REPRESENTS MINIMUM REQUIREMENTS. DEPENDING UPON THE CONTRACTOR'S OPERATIONS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL AND MAINTAIN ANY NECESSARY EROSION CONTROL FACILITIES NEEDED TO CONTROL EROSION OR THE DISCHARGE OF TURBIDITY INTO DOWNSTREAM WATERS OR ADJACENT PROPERTY.

CONTRACTOR'S CERTIFICATION


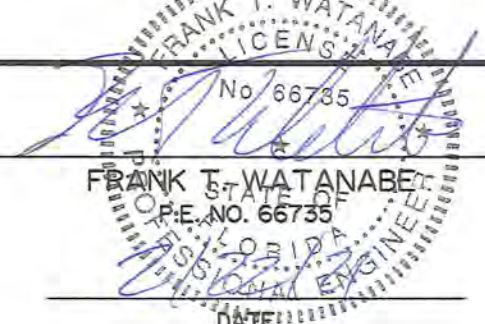
"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORM WATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION."

NAME:.....
TITLE:.....
COMPANY NAME:.....
COMPANY ADDRESS:.....
COMPANY PHONE:.....
SIGNATURE:.....
DATE OF CERTIFICATION:.....

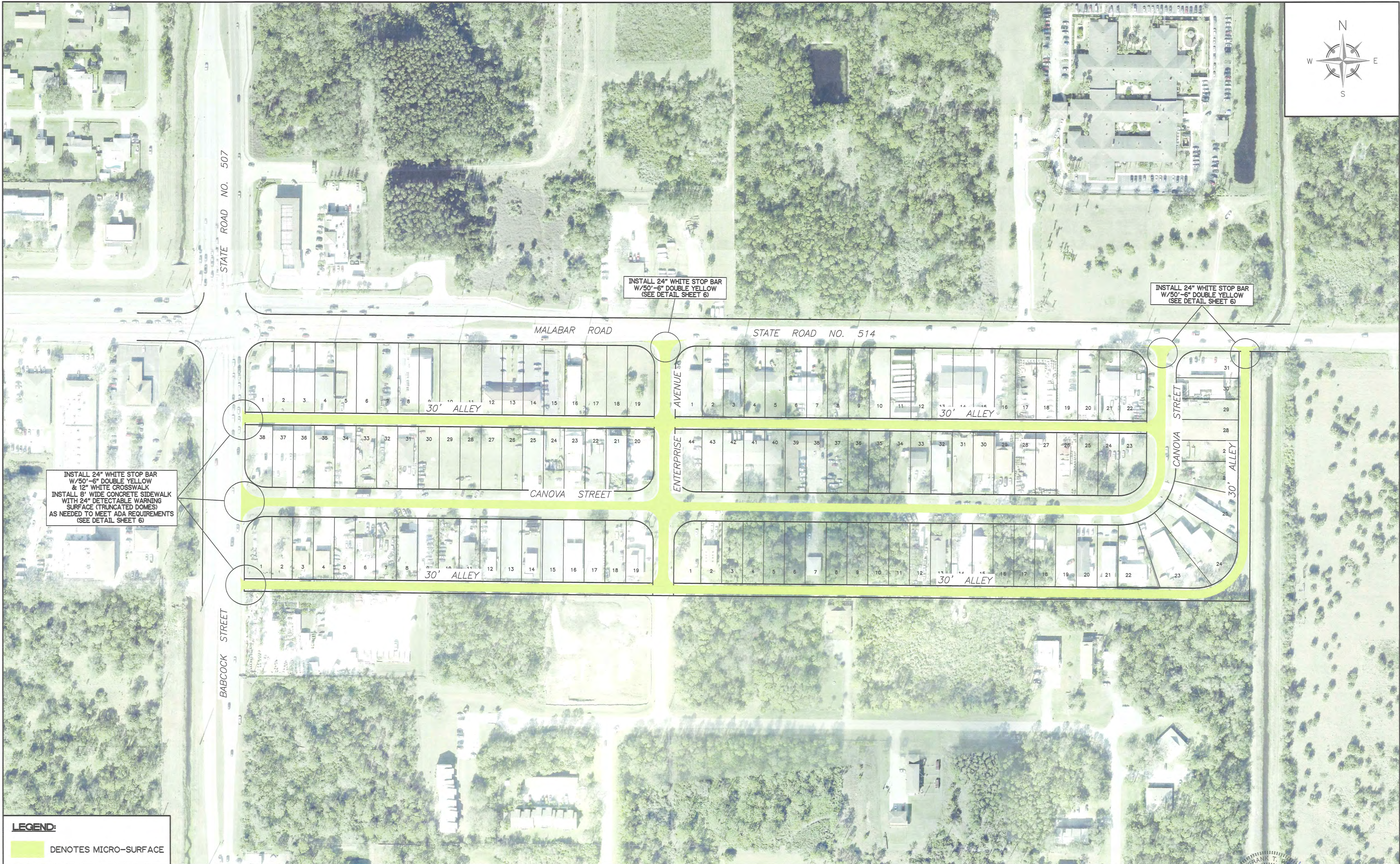
ENGINEER'S CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEMS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND AND IMPRISONMENT FOR KNOWING VIOLATIONS."

NAME:.....**FRANK T. WATANABE, P.E.**
TITLE:.....**CITY ENGINEER**
COMPANY NAME:.....**CITY OF PALM BAY**
COMPANY ADDRESS:.....**1050 MALABAR ROAD, S.W.
PALM BAY, FLORIDA 32907**
COMPANY PHONE:.....**(321) 953-8996**
SIGNATURE:.....
DATE OF CERTIFICATION:.....

DESIGNED BY FTW	 CITY OF PALM BAY PUBLIC WORKS DEPARTMENT 1050 MALABAR ROAD S.W. PALM BAY, FLORIDA 32907 (321) 953-8996	PORT MALABAR UNIT 38 ROAD PAVING CONSTRUCTION PLANS STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	DATE OCT 2020		PROJECT NUMBER 20-30
DRAWN BY MH			SCALE HORIZ: N/A VERT: N/A		SHEET 4 of 6
CHECKED BY FTW					
REV. NO.	DATE	BY	REVISION		

FILE NAME: K:\ENGINEERING\PROJECTS\PMU_38 ROAD PAVING (20-30)\DESIGN\2020\SWPPP04 - DWG\8/4/20/16 Sep 20




LEGEND:

DENOTES MICRO-SURFACE

REV. NO.	DATE	BY	REVISION

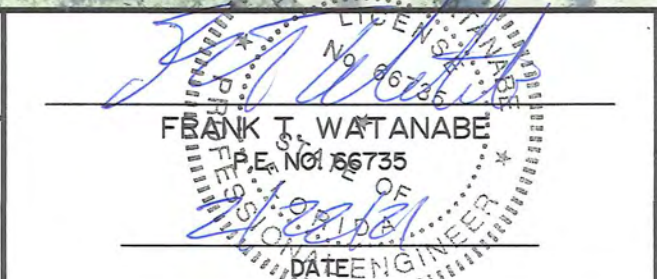
DESIGNED BY FTW
DRAWN BY MH
CHECKED BY FTW



CITY OF PALM BAY
PUBLIC WORKS DEPARTMENT
1050 MALABAR ROAD S.W.
PALM BAY, FLORIDA 32907
(321) 953-8996

PORT MALABAR UNIT 38
ROAD PAVING
CONSTRUCTION PLANS
PLAN VIEW

DATE OCT 2020
SCALE HORIZ: 1" = 100'
VERT: N/A



FRANK T. WATANABE
P.E. No. 16246
DATE: 10/15/2020

PROJECT NUMBER 20-30
SHEET 5 OF 6

FILE NAME: K:\ENGINEERING\PROJECTS\PMU 38 ROAD PAVING (20-30)\DESIGN\2030P.V05 DWG/930mm/16 Sep 20 PLOT-1=1

General Notes for Micro Surfacing:

General:

- Remove any thermoplastic striping materials and retro-reflective pavement markers in the areas to be micro surfaced.
- Immediately prior to applying the micro surfacing, clear the surface of all loose material, silt spots, vegetation, and other material that will negatively affect the quality of the micro surfacing, utilizing any standard cleaning method.
- If water is used for cleaning, allow any unsealed cracks to dry thoroughly before applying micro surfacing.
- Protect manholes, valve boxes, drop inlets and other surface entrances from the micro surfacing mixture by a suitable method.
- The City Inspection staff will approve the surface preparation prior to micro surfacing.
- No loose aggregate, either spilled from the lay-down machine or existing on the road, will be permitted.

Cracks:

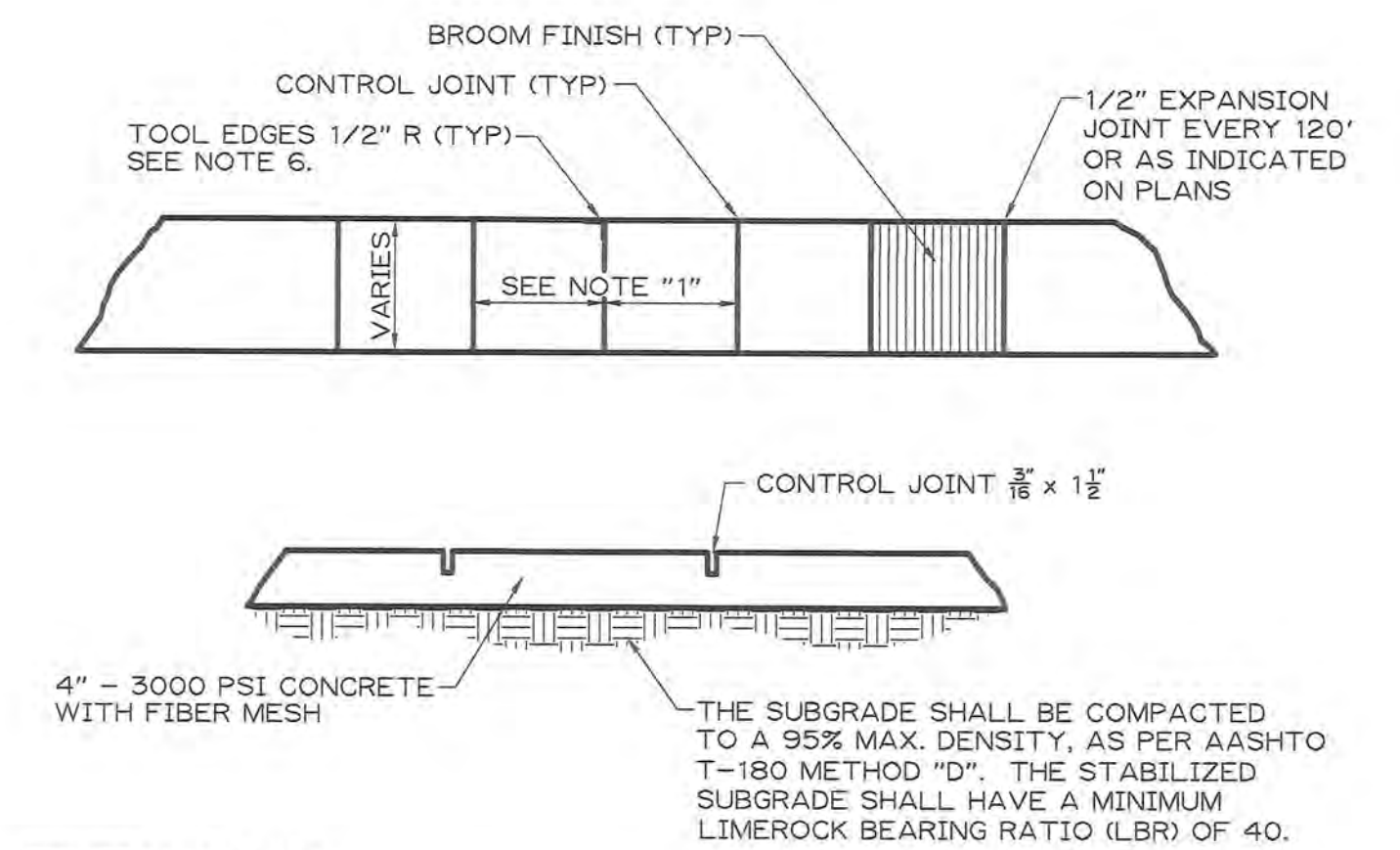
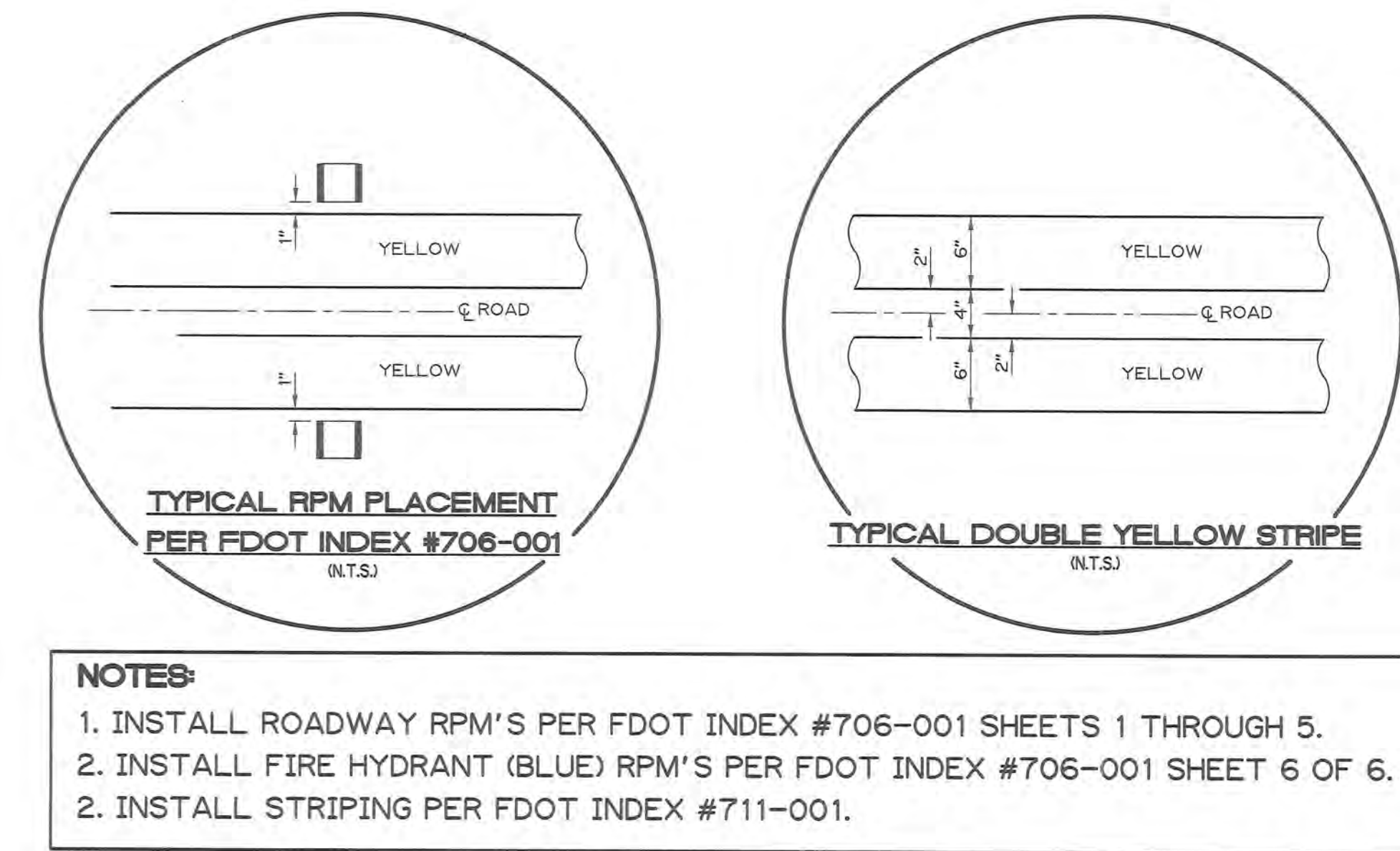
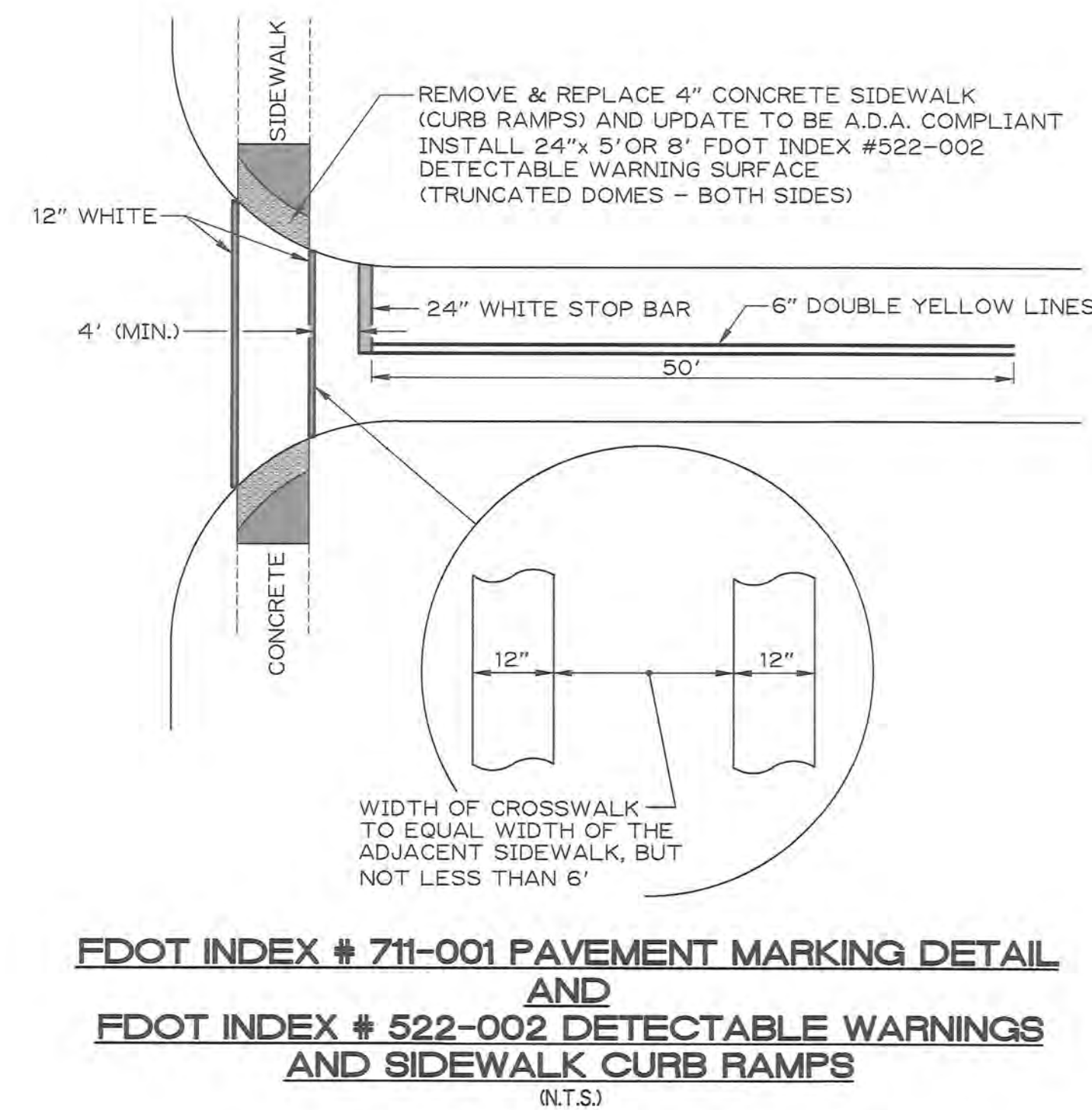
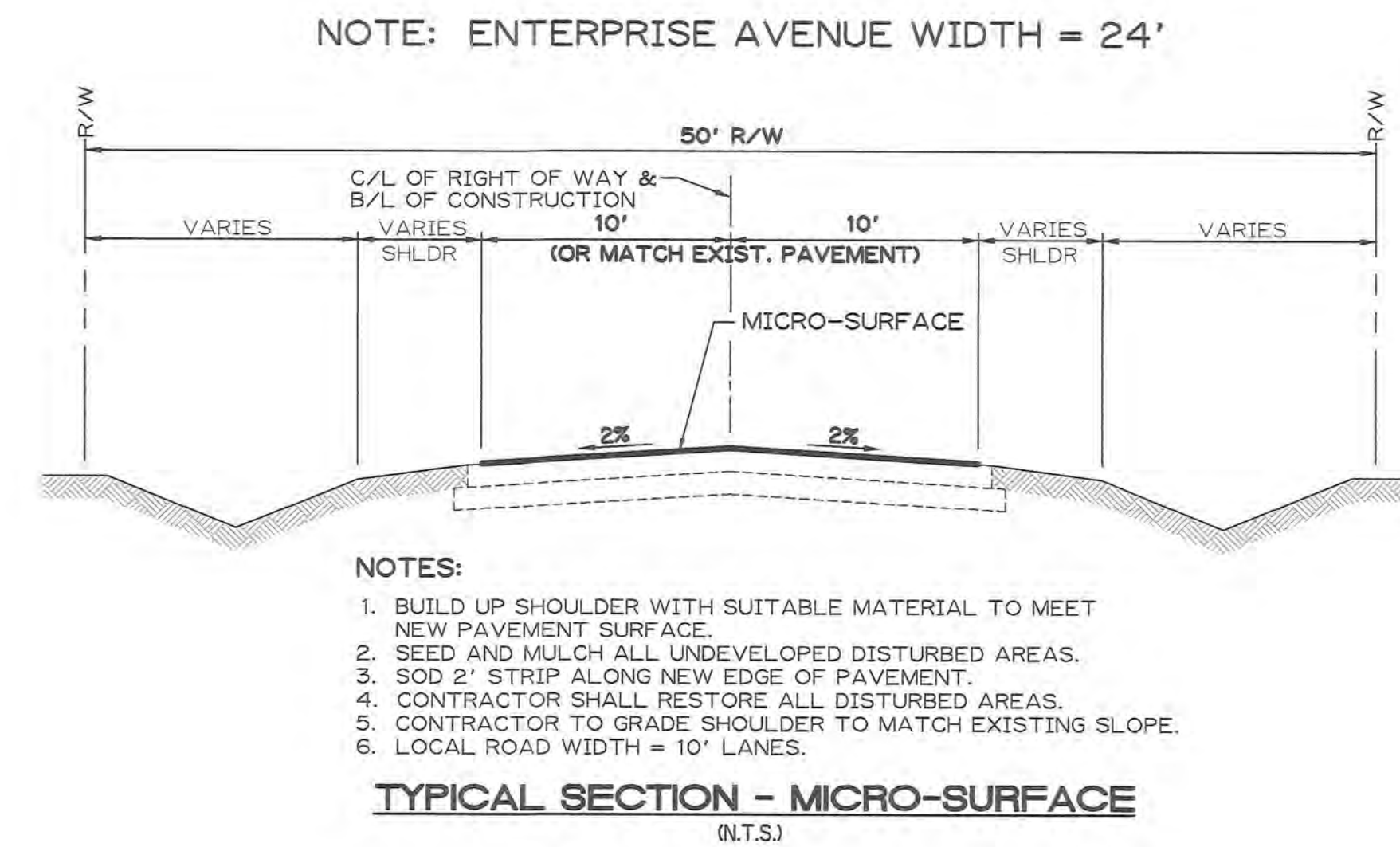
- All longitudinal cracks shall be filled prior to construction of the micro surfacing treatment, pre-treat any cracks in the surface of the pavement with a crack filler meeting the material requirements of FDOT Developmental Specification Section 305 prior to the application of the micro surfacing.
- Fill any cracks with a width greater than 1/4 inch.
- Do not overfill the cracks.
- Crack filling material must cure for a minimum of 30 days prior to application of the micro surfacing.

Cleanup:

- Remove micro surfacing mixture from all areas such as manholes, gutters, drainage structures, rumble strips, and as otherwise specified by the Engineer.
- On a daily basis, remove any debris resulting from the performance of the work.


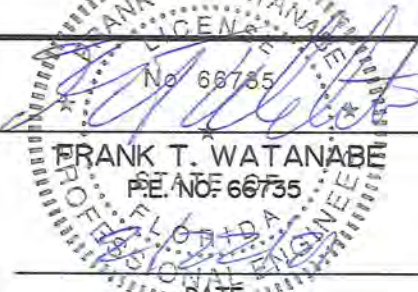
Post Sweeping:

- Contractor shall broom the surface of any loose material within 48 hours after the completion of the micro surfacing.
- If directed by Inspection staff, perform this operation again approximately seven to ten days after completion of the micro surfacing, as needed.
- Additionally, clean the surface as necessary, prior to application of the final pavement markings.



GENERAL NOTES:

- | | SIDEWALK | | BIKEWAY | |
|---------------|----------|----|---------|----|
| WIDTH | 4' | 5' | 6' | 8' |
| CONTROL JOINT | 5' | | 8' | |
- ALL SAWCUTS TO BE MADE AT A CONTROL JOINT.
- THE MINIMUM BIKEWAY/SIDEWALK REPAIR SHALL BE ONE FULL SECTION BETWEEN CONTROL JOINTS.
- REMOVE ACCUMULATED DEBRIS FROM THE SITE AND DISPOSE OF IN A LAWFUL MANNER.
- STABILIZE THE DISTURBED AREAS ABUTTING THE BIKEWAY/SIDEWALK WITH A MINIMUM TWO (2) FOOT WIDE STRIP OF MATCHING SOD.
- TOOL EDGES SHALL BE USED WHERE EXISTING SIDEWALKS HAVE BEEN CONSTRUCTED WITH SIMILAR FINISHES.
- EXPANSION JOINT MATERIAL REQUIRED AROUND ALL MANHOLES AND STRUCTURES.

DESIGNED BY FTW		CITY OF PALM BAY PUBLIC WORKS DEPARTMENT 1050 MALABAR ROAD S.W. PALM BAY, FLORIDA 32907 (321) 953-8996	PORT MALABAR UNIT 38 ROAD PAVING CONSTRUCTION PLANS DETAIL SHEET	DATE OCT 2020		PROJECT NUMBER 20-30
DRAWN BY MH				SCALE HORIZ: N/A VERT: N/A		SHEET 6 OF 6
CHECKED BY FTW						
REV. NO.	DATE	BY	REVISION			