

August 26, 2016
BOARD OF COUNTY COMMISSIONERS
ORANGE COUNTY, FLORIDA
Y16-7000-RM / Addendum No. 2
PARK MANOR ESTATES SECTIONS 1-8 UNDERDRAIN IMPROVEMENTS
BID OPENING DATE IS SEPTEMBER 6, 2016

This addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to, and shall take precedence over, the original documents. Underlining indicates additions, deletions are indicated by ~~strikethrough~~.

A. The Bid Opening Date remains September 6, 2016.

B. The following are questions/responses/clarifications:

1. **Question:** If trees are in the way of the underdrain being installed, is the pipe to be deflected around the tree? Or is the tree to be removed?

Answer: The plans and specifications provide guidance for handling various conflicts. Any specific conflicts that cannot be resolved based on the direction provided in the plan notes and specifications should be brought to the County's attention immediately to be resolved on a case by case basis.

2. **Question:** Is cutting of the tree roots allowed if the pipe is to be deflected around the existing tree?

Answer: Refer refer to revised General Note 3 on Sheet 5 of the Plans (see attachment), "With prior County approval, all existing trees or tree limbs interfering with installation, within the right-of-way, are to be neatly trimmed or removed by the contractor prior to the installation of the underdrain". In the context of this project, "Trees or tree limbs" also applies to roots. Trees physically located outside the County right-of-way but with significant root systems within the right-of-way that conflict with construction will need to be coordinated with the owner and County on a case by case basis.

3. **Question:** If the tree is to be removed and replace, is it to be replaced with the same size?

Answer: Trees that are approved to be removed (per General Note 3, Sheet 5) are not required to be replaced.

4. **Question:** The 710 TN of Superpave 9.5 asphalt, where is that to be installed? What is the square yardage for that much asphalt material?

Answer: The Superpave SP-9.5 asphalt is to be installed as the top asphalt layer for open cut restoration as shown on the Standard Roadway Open Cut Cross Section Detail on Sheet 6. As shown in the Summary of Pay Items on

Sheet 1, the quantity of Superpave 9.5 asphalt estimated for the project is 710 SY. The Schedule of Prices has been corrected to reflect that the quantity for this pay item is estimated in square yards instead of tons.

5. **Question:** Can you please provide a detail for the Underdrain Junction Boxes depicted on sheet 6 – Concrete Driveway Typical?

Answer: Underdrain Junction Boxes shall be necessary only when joining dissimilar pipes that are not compatible with joining via a typical bell and spigot. In this situation, the junction box shall be provided per the pipe manufactures specifications and will require shop drawing approval prior to use. Plan sheet 6 has been revised accordingly.

6. **Question:** Will the underdrain outlet pipe be included in the under the underdrain pay item? If not, can you include a separate pay item?

Answer: Please refer to Pay Item Footnote 440-1-60 on Sheet 1 (attached), the cost for underdrain outlet pipe is included in the underdrain pay item.

7. **Question:** Can the underdrain be installed in a wet condition or will dewatering be required?

Answer: As stated in Technical Provision 440, the underdrain trench shall be constructed in a dry condition. This shall be accomplished by the use of a positive dewatering method.

8. **Question:** If dewatering is required will discharged water require testing and or treatment?

Answer: As stated in Technical Provision 104, prevention, control and abatement of erosion and water pollution shall conform to the requirements of Section 104 of the FDOT Standard Specifications, National Pollution Discharge Elimination System (NPDES) requirements. The cost is included under Pay Item 104-1.

9. **Question:** It was mentioned in the pre-bid that testing would be required by the contractor, what item covers that cost?

Answer: Footnotes for Pay Items 270-9, 522-1, and 522-2 were added to Sheet 1 of the Plans to clarify that the costs for the associated testing is to be paid for under these pay items. Technical Specifications 270 and 522 were also revised to include the added pay item footnotes.

C. The following represents a change to the IFB.

1. Regarding Part D, Bid Form, **DELETE** existing Pages D-3 and D-4 and **REPLACE** with the attached "**Revised Bid Item Schedule**" pages D-3 and D-4.

IMPORTANT: Failure to submit your bid with the "Revised Bid Item Schedule" per this Addendum shall be cause for your bid to be rejected as non-responsive.

- D. All other terms and conditions of the IFB remain the same.

The Bidder/Proposer shall acknowledge receipt of this addendum by completing the applicable section in the solicitation or by completion of the acknowledgement information on the addendum. Either form of acknowledgement must be completed and returned not later than the date and time for receipt of the bid or proposal.

Receipt acknowledged by:

Authorized Signature

Date Signed

Title

Name of Firm

Y16-7000-RM "REVISED" SCHEDULE OF PRICES

Ref No.	TP / Spec. Item No.	Description	Unit	Estimated Quantity	Unit Price	Total Price
1	101-1	MOBILIZATION (5% OF ALL OTHER ITEMS)	LS	1		
2	102-1	MAINTENANCE OF TRAFFIC (5% OF ALL OTHER PAY ITEMS)	LS	1		
3	104-1	PREVENTION/CONTROL/ABATEMENT OF EROSION AND WATER POLLUTION	LS	1		
4	110-1-1	CLEARING AND GRUBBING	LS	1		
5	270-9	SOIL CEMENT BASE (PRIMED) (9") (350 PSI)	SY	230		
6	334-1-12A	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC B) (SP-9.5) (1 1/2")	SY	710		
7	334-1-12B	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC B) (SP-12.5) (1 1/2")	SY	230		
8	440-1-60	UNDERDRAIN, SPECIAL, PERFORATED (8" DIA.)	LF	39,600		
9	520-1-10	CONCRETE CURB AND GUTTER, DROP CURB	LF	360		
10	522-1	CONCRETE SIDEWALK, 4" THICK	SY	190		
11	522-2	CONCRETE SIDEWALK AND DRIVEWAY, 6" THICK (FOR DRIVEWAYS)	SY	9,200		
12	570-1	PERFORMANCE TURF, SOD	SY	30,300		
13	900-1	AS-BUILT PLANS	LS	1		

14	900-2	INDEMNIFICATION	LS	1	\$100.00	\$100.00
TOTAL ESTIMATED BID PRICE (Items 1-14)						
					\$	

IMPORTANT: Failure to submit your bid with the "Revised Bid Item Schedule" per this Addendum shall be cause for your bid to be rejected as non-responsive.

SUMMARY OF PAY ITEMS*

ITEM NUMBER	DESCRIPTION	UNITS		QUANTITY TOTAL
		PLANS	FINAL	
101-1	MOBILIZATION (5% OF ALL OTHER ITEMS)	LS	1	1
102-1	PAINT ENAMEL OF TRAFFIC (5% OF ALL OTHER PAY ITEMS)	LS	1	1
110-1	PREVENTION, CONTROL AND MAINTENANCE OF EROSION AND WATER POLLUTION	LS	1	1
220-9	SOIL CEMENT BASE (8000/1000 PSI)	SY	230	230
334-1-12A	SUBGRADE ASPHALTIC CONCRETE (TRAFFIC B) (SP-9.5) (1.1/2")	SY	230	230
334-1-12B	SUBGRADE ASPHALTIC CONCRETE (TRAFFIC B) (SP-12.5) (1.1/2")	SY	230	230
440-1-60	UNDERDRAIN, SPECIAL, PERFORATED (6" DIA.)	LF	36,800	36,800
520-1-10	CONCRETE CURB AND GUTTER, DROP CURB	LF	190	190
520-1-11	CONCRETE SIDEWALK, 4" THICK	SY	9,200	9,200
520-1-12	CONCRETE SIDEWALK AND DRIVEWAY, 6" THICK (FOR DRIVEWAYS)	SY	30,300	30,300
520-1-13	PERFORMANCE TURF, SOD	SY	15	15
520-1-14	PERFORMANCE TURF, SOD	SY	15	15
520-1-15	PERFORMANCE TURF, SOD	SY	15	15

*NOTE: QUANTITIES ARE APPROXIMATE BASED ON 700 SERIES DESIGN LEVEL OF DETAIL AND ARE EXPECTED TO FLUCTUATE BASED ON ACTUAL FIELD CONDITIONS AND FINAL CONSTRUCTION QUANTITIES. PAYMENT WILL BE BASED ON APPROVED QUANTITIES INSTALLED.

INDEX OF SHEETS

SHEET	DESCRIPTION
1	OVERVIEW MAP
2A	IMPROVEMENT'S RECOMMENDATION MAP
2B	IMPROVEMENT'S RECOMMENDATION MAP
2C	IMPROVEMENT'S RECOMMENDATION MAP
3	SUMMARY OF QUANTITIES
4	UNDERDRAIN TYPICAL SECTION
5	GENERAL NOTES
6	MISCELLANEOUS DETAILS

PAY ITEM NOTES

- 101-1 INCLUDES ALL APPLICABLE SURVEY COSTS AND COSTS NECESSARY FOR A VIDEO SURVEY. THE WORK SITE/AREA SHALL BE VIDEOED (CO) PRIOR TO WORK COMMENCEMENT AND AFTER WORK IS COMPLETED. THIS VIDEO WILL BE TAKEN BY THE CONTRACTOR AND SHALL BE SUBMITTED ON CD TO THE COUNTY WITH THE FINAL PAY REQUEST. INCLUDES ALL EFFORTS NECESSARY TO CONSTRUCT AND DISMANTLE A TEMPORARY STAGING AREA AS NEEDED TO ACCOMMODATE TYPICAL WET SEASON RAIN-FALL EVENTS OCCURRING DURING CONSTRUCTION.
- 102-1 INCLUDES ALL NECESSARY TRAFFIC CONTROL DEVICES INCLUDING FLAGMEN, PILOT CARS AND VARIABLE MESSAGE BOARDS IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (LATEST EDITION). CONTRACTOR SHALL SECURE CONSTRUCTION SITE (IE. TEMPORARY PEDESTRIAN SAFETY FENCING, BARRICADES, SIGNS, ETC.) IN ORDER TO PREVENT PEDESTRIANS FROM ACCESSING WORK AREAS.
- 104-1 INCLUDES THE COST OF ALL ITEMS REQUIRED FOR EROSION CONTROL, INCLUDING, BUT NOT LIMITED TO, SYNTHETIC RALES, TURBIDITY BARRIERS, SILT FENCE, AND TEMPORARY GRASSING AS SHOWN IN THE PLANS OR AS DIRECTED BY THE COUNTY.
- 110-1-1 INCLUDES, BUT IS NOT LIMITED TO, THE SANITARY REMOVAL AND DISPOSAL OF EXISTING PERMANENT DRIVEWAY CONCRETE CURB AND BASE REQUIRED TO CONSTRUCT THE PROJECT. INCLUDES THE REMOVAL OF ALL EXISTING DRIVEWAY CONCRETE CURB AND BASE AND OF ALL REMOVED MATERIALS TO AN APPROVED ORANGE COUNTY DISPOSAL SITE YARD OR AS DIRECTED BY THE COUNTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPLACE IN-KIND OR BETTER ANY DAMAGED FENCING, DAMAGED MAILBOXES OR ANY OTHER PRIVATE PROPERTY DISTURBED DURING CONSTRUCTION. INCLUDES THE COST OF RESIDENT NOTIFICATION PRIOR TO THE COMMENCEMENT OF EXPLAN THE LEVEL OF INCURVENCE. THIS NOTICE SHALL BE PLACED ON THE WORK AREA AS TO WHEN THE WORK WILL TAKE PLACE AND TO COMMENCEMENT OF ANY WORK IN THAT AREA. THE NOTIFICATION WILL BE BY AN APPROVED DOOR HANGER TO BE PLACED ON EACH HOUSE AND ANY VEHICLES PARKED ON THE ROADWAYS.
- 370-9 INCLUDES THE COST OF ALL MATERIALS, LABOR, TESTING AND EQUIPMENT REQUIRED FOR CONSTRUCTION OF SOIL CEMENT BASE.
- 440-1-60 PAYMENT FOR UNDERDRAIN INCLUDES, BUT IS NOT LIMITED TO, THE COST FOR PIPE, PERFORATED AND NON-PERFORATED FITTINGS, AGGREGATE, FILTER FABRIC, UNDERDRAIN CLEANOUTS, UNDERDRAIN OUTLET PIPE, JUNCTION BOXES, CONCRETE AROUNDS AND STUBBING INTO DRAINAGE STRUCTURES, ALSO INCLUDES THE COST TO COORDINATE WITH UTILITY OWNERS AND FIELD ADJUST UNDERDRAIN TO AVOID IMPACTS WITH UTILITIES AND PRIVATE PROPERTY.
- 520-1-10 INCLUDES THE COST OF ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED FOR CONSTRUCTION OF CURB AND GUTTER.
- 520-1-6 DAY REPAIRS INCLUDES THE COST OF ALL MATERIALS, LABOR, TESTING AND EQUIPMENT REQUIRED FOR CONSTRUCTION OF CONCRETE SIDEWALK AND GUTTER.
- 570-1 INCLUDES THE COST OF PEGGING, FERTILIZER AND WATER AS REQUIRED FOR ESTABLISHMENT OF PERMANENT SOOD PLANTED ON ALL SLOPES 1:3 OR STEEPER SHALL BE PEGGED. ALSO INCLUDES THE COST OF TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS AND MOWING UNTIL THE FINAL PROJECT ACCEPTANCE BY THE COUNTY.

REVISIONS

DATE	BY	DESCRIPTION
8/19/16	448	ADDED PAY ITEM FOOTNOTES 207-9 AND 522-1, 6 522-2

CERTIFICATION TO PLANS

THIS IS TO CERTIFY THAT THE CONSTRUCTION PLANS AND SPECIFICATIONS AS CONTAINED HEREIN WERE DESIGNED TO MEET THE MINIMUM STANDARDS AS SET FORTH IN THE MANUAL OF PRACTICE FOR PROFESSIONAL ENGINEERS AND ARCHITECTS MAINTENANCE FOR DESIGN, CONSTRUCTION, CONSTRUCTION, AS PREPARED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION, TALLAHASSEE, FLORIDA, DATED LATEST EDITION.

DATE: _____ ENGINEER: STEVEN M. SOMMERFELDT, P.E. REG. NO. 64074

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. THE ENGINEER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROPERTY AND NEEDS WITH THE PROPERTY OWNER OR HIS REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

GOVERNING STANDARDS AND SPECIFICATIONS: THE PLANET OF INSPECTION, DATED 2016, AS AMENDED BY CONTRACT DOCUMENTS, 2016, AS AMENDED BY CONTRACT DOCUMENTS.

ORANGE COUNTY FLORIDA

LEGEND

- ▣ PROJECT AREA
- CONNECT TO
- EXISTING DRAINAGE INLET
- PROPOSED UNDERDRAIN
- ▭ PARCELS

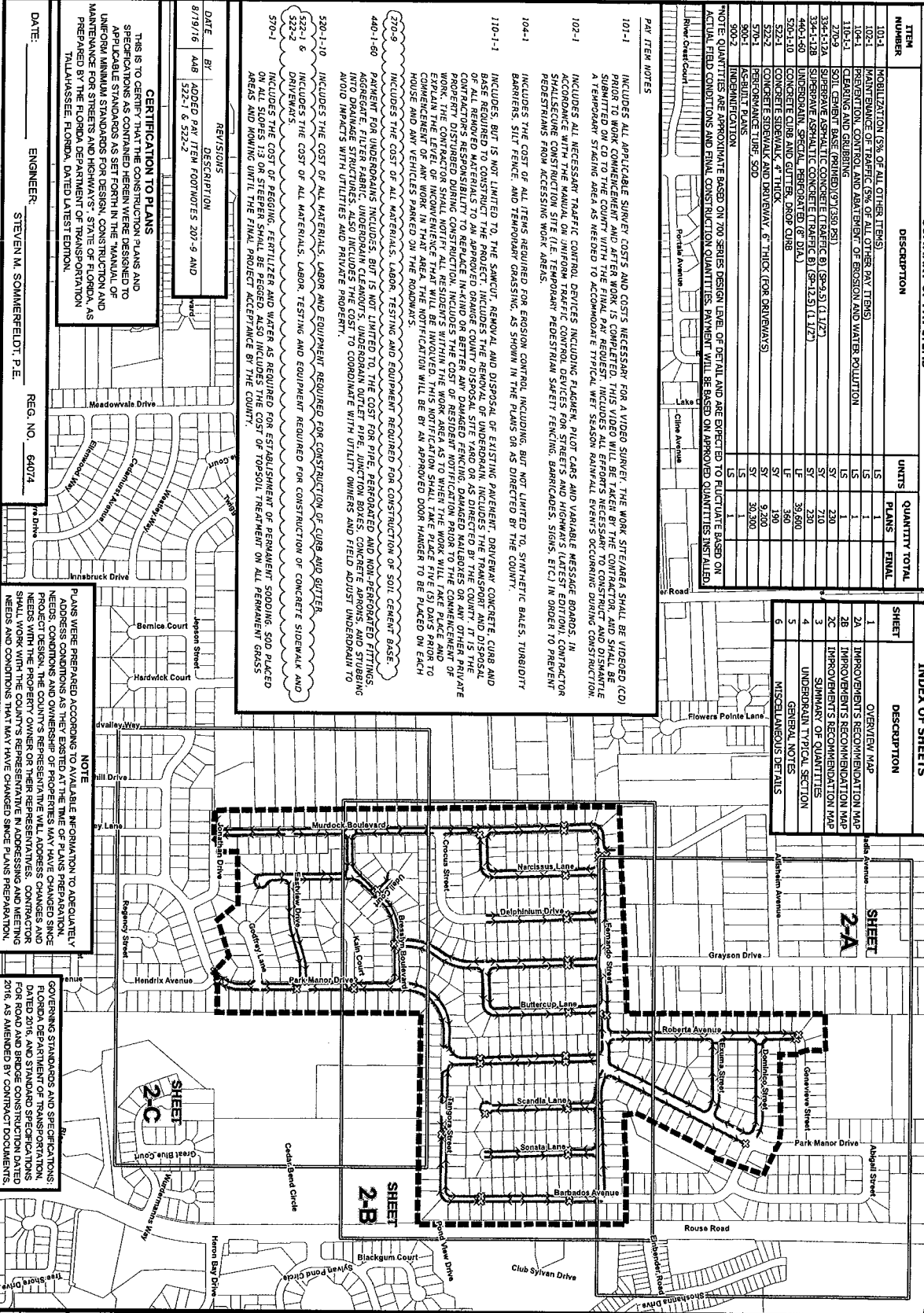
OVERVIEW MAP

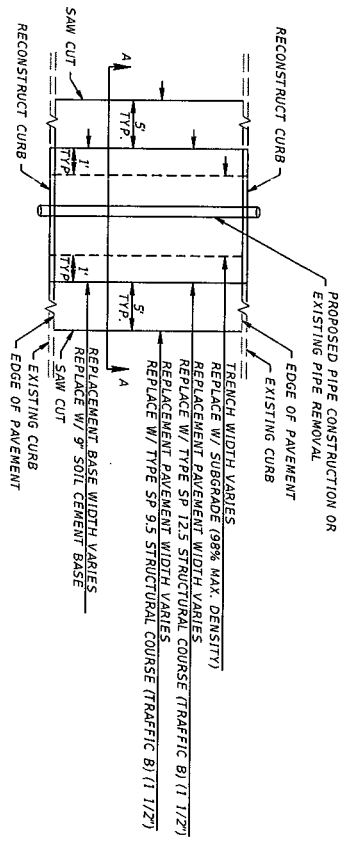
PARK MANOR ESTATES SECTIONS 1-8 UNDERDRAIN IMPROVEMENTS

SHEET 1

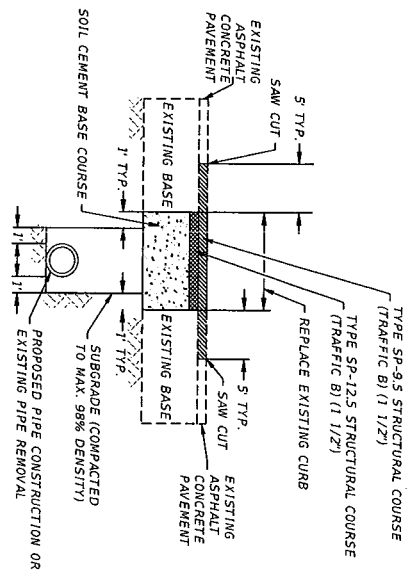
DATA SOURCES:
STREETS: ORANGE COUNTY, 2015 PARCELS: ORANGE COUNTY, 2016 STRUCTURES: VARIOUS SOURCES

0 300 600 Feet





PLAN VIEW



STANDARD ROADWAY OPEN CUT CROSS SECTION DETAIL
FINAL RESTORATION - TYPICAL OF OPEN CUTS

- GENERAL NOTES:
1. BASE REPLACEMENT SHALL BE SOIL CEMENT BASE COURSE.
 2. ASPHALTIC CONCRETE SURFACE MATERIAL SHALL BE REPLACED WITH WHAT IS SHOWN IN THE PLANS FOR NEW RECONSTRUCT. OR AS APPROVED BY THE COUNTY ENGINEER.
 3. ALL JOINT CUTS SHALL BE MECHANICALLY SAW CUT.

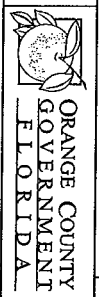
NOTE:
SUB-GRADE CUT TO BE COMPACTED TO 98% MAX. DENSITY AS DETERMINED BY AASHTO T - 180. CUT AREA TO BE PLATED OR PROTECTED ON DAY OF POUR. EXISTING SURFACE TO BE SAW CUT TO AN AREA FIVE (5) FEET, BEYOND THE BASE CUT.

1. 9" SOIL CEMENT BASE COURSE
 TYPE SP-9.5 (TRAFFIC B) (1 1/2")
 TYPE SP-12.5 (TRAFFIC B) (1 1/2")

REVISIONS

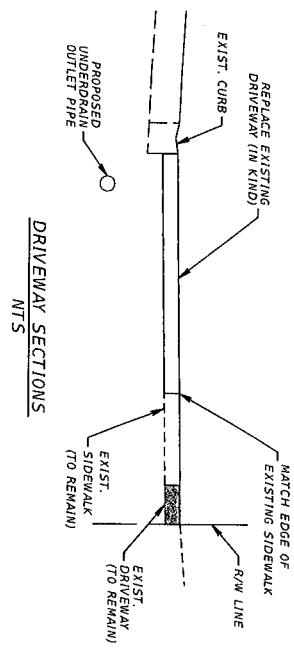
DATE	BY	DESCRIPTION
8/23/16	AAB	REVISED UNDERDRAIN JUNCTION BOX DRAWING NOTES.

**PARK MANOR ESTATES
SECTIONS 1 - 8
UNDERDRAIN IMPROVEMENTS**

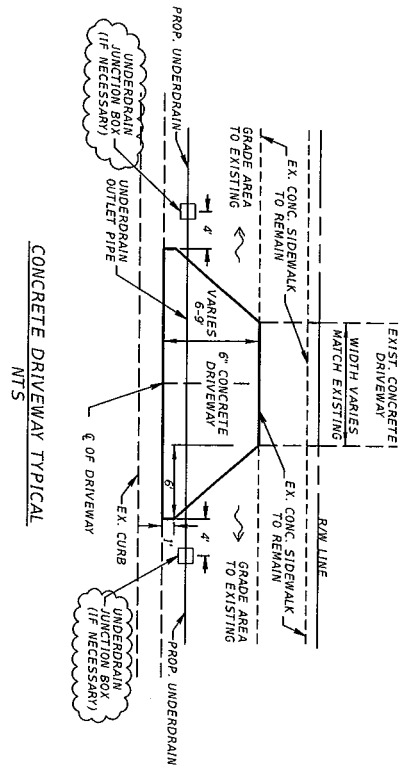


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MISCELLANEOUS DETAILS



DRIVEWAY SECTIONS
NTS



CONCRETE DRIVEWAY TYPICAL
NTS

- DRIVEWAY NOTES:
1. THE CONTRACTOR SHALL SAW CUT AND REMOVE THE EXISTING DRIVEWAY FROM THE FRONT OF THE EXISTING SIDEWALK TO THE EXISTING CURB.
 2. SURFACE SPECIFICATIONS: CONCRETE DRIVEWAY SHALL BE A MINIMUM OF 6" THICK, 3000 PSI CONCRETE INCORPORATING A FLAME AS SHOWN IN THE PLAN VIEW.
 3. RIGHT OF WAY RESTORATION REQUIREMENT: AS GOOD OR BETTER THAN CONDITION PRIOR TO CONSTRUCTION (INCLUDES ADJACENT AREAS).
 4. COST OF DRIVEWAY RESTORATION IS INCLUDED IN PAY ITEM 522-2 SIDEWALK CONCRETE, 6" THICK (FOR DRIVEWAY REPLACEMENT).
 5. ANY SIDEWALK TO BE REPLACED WITHIN DRIVEWAY LIMITS SHALL BE 6" THICK CONCRETE.
 6. UNDERDRAIN JUNCTION BOXES SHALL BE NECESSARY ONLY WHEN JOINING DISMANTLED PIPES THAT ARE NOT COMPATIBLE WITH JOINING AND SEALING VIA A TYPICAL BELL AND SPIGOT. IF THIS SCENARIO IS ENCOUNTERED, THE JUNCTION BOX SHALL BE PROVIDED PER THE PIPE MANUFACTURER'S SPECIFICATIONS AND WILL REQUIRE SHOP DRAWING APPROVAL PRIOR TO USE.

PART H

TECHNICAL PROVISIONS

TP 270 – Soil Cement Base (Primed)



Inspection

The Engineer, Geotechnical Engineer and Contractor shall inspect the base for deficiencies after a minimum of seven (7) days have elapsed and prior to applying the asphalt wearing surface. All deficiencies shall be corrected and accepted by the Engineer 48 hours prior to commencing paving operations.

Method of Measurement

Quantities measured for payment under this Section shall be the actual area in square yards of soil cement base constructed to limits, thicknesses, lines and grades shown on the plans, completed and accepted.

Basis of Payment

Soil Cement Base will be paid for at the contract unit price per square yard completed and accepted. The cost of the cement, prime coat and cover material, including the spreading of each, shall be included in the contract unit price.

Payment shall be made under:

Pay Item:

270-9 Soil Cement Base (Primed) (9") (350 psi) Per Square Yard

Pay Item Footnote No. 270-9
Includes the cost of all materials, labor, testing and equipment required for construction of soil cement base.

REVISIONS		
DATE	BY	DESCRIPTION
8/19/16	AAB	ADDED PAY ITEM FOOTNOTES 207-9

PART H

TECHNICAL PROVISIONS



TP 522 – Concrete Sidewalks, 4 Inch and 6 Inch Thickness

Subgrade preparation and additional concrete required for thickened slabs as indicated on the plans or as directed by the Engineer shall be included in the contract unit price for 6-inch Concrete Sidewalk.

Payment shall be made under:

Pay Item:

522-1	Concrete Sidewalk, 4" Thick	Per Square Yard
522-2	Concrete Sidewalk and Driveway, 6" Thick (for Driveways)	Per Square Yard

Pay Item Footnote No. 522-1 & 522-2

Includes the cost of all materials, labor, testing and equipment required for construction of concrete sidewalk and driveways.

REVISIONS		
DATE	BY	DESCRIPTION
8/19/16	AAB	ADDED PAY ITEM FOOTNOTES 522-1 & 522-2