

LEGEND

	EXISTING SANITARY SEWERLINE		STREET LIGHT
	PROPOSED SANITARY SEWERLINE		PROPOSED LIGHT ON-SITE
	EXISTING DRAINAGE PIPE		TYPE '6' INLET
	PROPOSED DRAINAGE PIPE		TYPE 'C' OR TYPE 'F' INLET
	EXISTING WATER MAIN		JUNCTION MANHOLE
	PROPOSED WATER MAIN		DRAINAGE STRUCTURE LABEL
	FILTER FENCE/SEDIMENT BARRIER		PROPOSED FIRE HYDRANT
	PROPOSED SPOT ELEVATION AT TOP/SIDE/SIDEWALK		PROPOSED SIGN
	PROPOSED EOP RADIUS		SEWER MANHOLE
	PROPOSED GRADE / CONTOUR		
	PROPOSED DRAINAGE FLOW DIRECTION		

NOTES

1. ALL DISTURBED AREAS IN THE RIGHT-OF-WAY SHALL BE SODED. SEED AND MULCH IS NOT ACCEPTABLE.
2. ANY DAMAGE TO THE EXISTING INFRASTRUCTURE, INCLUDING SIDEWALKS, BY THE CONTRACTOR MUST BE REPLACED PRIOR TO FINAL INSPECTION. SIDEWALK PAVING IS NOT ACCEPTABLE.
3. CURB RAMPS MUST MEET THE REQUIREMENTS OF FDOT STANDARD INDEX 304.
4. ALL STRIPING WITHIN THE RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING PUBLIC ROADWAY, CURBS, GUTTERS, SIDEWALKS, DRAINAGE SYSTEMS AND UTILITIES AS A DIRECT RESULT OF NEW CONSTRUCTION. ROAD IMPROVEMENTS SUCH AS BUT NOT LIMITED TO RESURFACING MAYBE REQUIRED.
6. THE SITE DRAINAGE AND CONSTRUCTION IMPROVEMENTS SHALL NOT ADVERSELY IMPACT ADJOINING PROPERTIES AND/OR ROADWAYS.
7. INDIAN RIVER COUNTY TRAFFIC ENGINEERING HAS UNDERGROUND CONDUIT FOR TRAFFIC SIGNAL INTERCONNECTIONS IN THIS AREA AS WELL AS OTHER TRAFFIC SIGNAL EQUIPMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT SUNSHINE STATE ONE CALL SYSTEM AT 1-800-432-4770 FOR LOCATIONS OF THIS EQUIPMENT AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION.
8. CONSTRUCT GREASE TRAP IN ACCORDANCE WITH CHAPTER 646-6 OF THE FLORIDA ADMINISTRATIVE CODE FOR ANY FOOD PREPARATION FACILITY AND SUBMIT TO THE ENVIRONMENTAL HEALTH DEPARTMENT FOR APPROVAL.
9. CONTRACTOR TO FIELD VERIFY ALL REPORTED INVERTS AND REPORT TO ENGINEER. CONTROL DEVICES AND THE INDIAN RIVER COUNTY TYPICAL DRAWINGS FOR ROADWAY SIGNING, STRIPING AND GEOMETRICS.
10. ANY CONFLICTS WITH THE PLANS AND EXISTING UTILITIES, DRAINAGE, ETC TO BE REPORTED TO ENGINEER FOR RESOLUTION OF ISSUES.
11. SIGNS AND PAVEMENT MARKINGS ARE TO CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE INDIAN RIVER COUNTY TYPICAL DRAWINGS FOR ROADWAY SIGNING, STRIPING AND GEOMETRICS.
12. ALL PAVEMENT MARKINGS ARE TO CONSIST OF 90 MIL EXTRUDED THERMOPLASTIC.
13. RAISED REFLECTIVE PAVEMENT MARKINGS (RPM'S) ARE TO CONSIST OF 4-INCH SQUARE MONO-DIRECTIONAL WHITE AND BI-DIRECTIONAL YELLOW.
14. LANE LINE RPM'S ON THE 4 (OR MORE) LANE PORTION OF ANY DIVIDED ROADWAY SHALL BE BI-DIRECTIONAL WHITE/RED.
15. RPM'S SHALL BE POSITIONED IN ACCORDANCE WITH FDOT INVENTORY 17352 AND THIS PLAN, BUT INSTALLED ON-THE-STREET IN ACCORDANCE WITH INDIAN RIVER COUNTY STANDARD.
16. DUMPSTER ENCLOSURES TO BE CONSISTENT WITH THE BUILDING'S STYLE OF ARCHITECTURE AND MATERIALS/COLORS/FINISHES.

Legend & Abbreviations: (symbols not scaleable for size)

PLS	PROFESSIONAL LAND SURVEYOR	W	WELL
PSM	PROFESSIONAL SURVEYOR & MAPPER	WUP	WOOD UTILITY POLE
LS	LAND SURVEYING BUSINESS	TS	TELEPHONE SERVICE
C	CENTERLINE	CTB	CABLE TV BOX
R	RADIUS	EB	ELECTRIC BOX
L	LENGTH	LP	LIGHT POST
Δ	DELTA ANGLE	HYD	HYDRANT
EP	EDGE OF PAVEMENT	GV	GATE VALVE
B/C	BACK OF CURB	WV	WATER VALVE
B/M	BENCHMARK	IV	IRRIGATION VALVE
POC	POINT OF COMMENCEMENT	WM	WATER METER
POB	POINT OF BEGINNING	SM	SANITARY MANHOLE
PCP	(PCP) PERMANENT CONTROL POINT	ST	SEPTIC TANK
PRM	(PRM) PERMANENT REFERENCE MONUMENT	DM	DRAINAGE MANHOLE
IP	(IP) IRON PIPE	SI	SURFACE INLET
IRP	IRON PIPE	MI	MITERED END SECTION
IRC	(IRC) IRON ROD & CAP	CD	CONCEPTUAL DRAINAGE
CM	(CM) CONCRETE MONUMENT	SS	STREET SIGN
FD	FOUND	NGVD	PROPOSED GRADE
(M)	MEASURED	NAVD	NORTH AMERICAN VERTICAL DATUM
(P)	PLAT	A/C	APPROXIMATE ELEVATION
(C)	CALCULATED	CONC	CONCRETE
□	TRAFFIC CONTROL BOX	F.F.	FINISH FLOOR
		B/SB	BUILDING SETBACK LINE
		EL/ELEV	ELEVATION
		R/W	RIGHT OF WAY
		AB	AS-BUILT
		PK	PARKER-KALON
			GUY WIRE
			WOOD UTILITY POLE
			TELEPHONE SERVICE
			CABLE TV BOX
			ELECTRIC BOX
			LIGHT POST
			WELL
			HYDRANT
			GATE VALVE
			WATER VALVE
			IRRIGATION VALVE
			WATER METER
			SANITARY MANHOLE
			SEPTIC TANK
			DRAINAGE MANHOLE
			CURB INLET
			SURFACE INLET
			MITERED END SECTION
			CONCEPTUAL DRAINAGE
			STREET SIGN
			PROPOSED GRADE
			NORTH AMERICAN VERTICAL DATUM
			APPROXIMATE ELEVATION
			CONCRETE
			FINISH FLOOR
			BUILDING SETBACK LINE
			ELEVATION
			RIGHT OF WAY
			AS-BUILT
			PARKER-KALON

PROPOSED DRAINAGE STRUCTURES

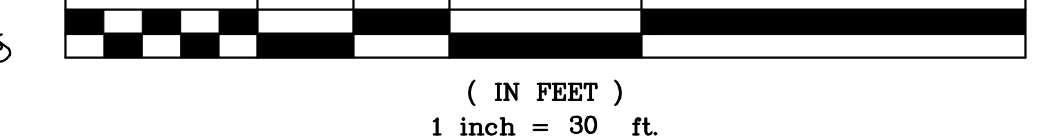
DS-1	CONTROL STRUCTURE SHEET 10	DS-6	MODIFIED TYPE 'C' INLET TOP = 13.00' N. INV = 9.25' S. INV = 9.25' BOTTOM = 8.25'
DS-1A	TYPE 'C' INLET TOP = 11.55' E. INV = 7.50' BOTTOM = 7.00'	DS-7	MODIFIED TYPE 'C' INLET TOP = 13.00' N. INV = 9.25' S. INV = 9.25' BOTTOM = 8.25'
DS-2	MODIFIED TYPE 'C' INLET TOP = 13.00' N. INV = 9.25' S. INV = 9.25' BOTTOM = 8.25'	DS-8	MODIFIED TYPE 'C' INLET TOP = 13.00' N. INV = 9.25' S. INV = 9.25' BOTTOM = 8.25'
DS-3	MODIFIED TYPE 'C' INLET TOP = 13.00' N. INV = 8.95' S. INV = 8.95' BOTTOM = 7.95'	DS-9	MODIFIED TYPE 'C' INLET TOP = 13.00' N. INV = 8.00' S. INV = 8.00' BOTTOM = 8.00'
DS-4	MODIFIED TYPE 'C' INLET TOP = 13.00' N. INV = 8.70' E. INV = 8.70' BOTTOM = 7.70'	DS-10	MODIFIED TYPE 'C' INLET (PHASE 2) TOP = 10.00' N. INV = 7.50' S. INV = 7.50' BOTTOM = 6.50'
DS-5	MODIFIED TYPE 'C' INLET TOP = 13.00' N. INV = 8.45' E. INV = 8.45' BOTTOM = 6.45'		

NOTE: THIS INLET IS THE LOW POINT OF THE SYSTEM AND HAS A DRAINAGE AREA THAT WILL NEED TO BE CLEANED ON A REGULAR BASIS.

EXISTING & PROPOSED SEWER STRUCTURES

XS-1	EXISTING SEWER MANHOLE TOP = 11.55' EX. N. INV = 3.53' EX. E. INV = 3.53' S. INV = 8.25'	XS-2	PROPOSED SEWER MANHOLE TOP = 13.10' N. INV = 9.00'
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GRAPHIC SCALE



HATCH LEGEND

	PROPOSED PAVEMENT
	PROPOSED CONCRETE
	EXISTING CONCRETE TO REMAIN

1. SUBMITTALS
2. PRODUCT DATA AND SHOP DRAWINGS
3. PRELIMINARY DATA AND SHOP DRAWINGS
4. ALLOW TWO WEEKS FOR THE ENGINEER TO COMPLETE REVIEW OF PRODUCT DATA AND SHOP DRAWINGS. ENGINEER WILL NOT BE RESPONSIBLE FOR DELAYS RELATED TO DELIVERY AND TRANSMISSION OF THE DOCUMENTS. ONCE INFORMATION HAS LEFT ENGINEER'S OFFICE, ITEMS REQUIRING A LONG LEAD TIME SHOULD BE SUBMITTED AS SOON AS POSSIBLE.
5. CONTRACTOR SHALL PROVIDE A STAMP INDICATING HIS REVIEW AND APPROVAL, INITIALED OR SIGNED, CERTIFYING TO REVIEW OF SUBMITTAL, VERIFICATION OF PRODUCTS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA, AND COORDINATION OF THE INFORMATION WITH THE SUBMITTAL WITH REQUIREMENTS OF THE WORK AND OF CONTRACT DOCUMENTS, INCLUDING PLANS AND SPECIFICATIONS OF OTHER DESIGN PROFESSIONALS (I.E., ARCHITECT, MECHANICAL, ELECTRICAL AND STRUCTURAL ENGINEERS).
6. TESTING
7. AS-BUILTS
8. OPERATION AND MAINTENANCE MANUALS
9. WARRANTY
10. OWNER TRAINING

SCHULKE, BITTLE & STODDARD, L.L.C.
 CIVIL & STRUCTURAL ENGINEERING - LAND PLANNING - ENVIRONMENTAL PERMITTING
 CERTIFICATION OF AUTHORIZATION NO.: 00008668
 1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
 TEL 772 / 770-9622 FAX 772 / 770-9496 EMAIL info@bsengineers.com

PAVING, GRADING, DRAINAGE & UTILITIES PLAN (PHASE 1)

SHOPS AT 11TH

DATE: SHEET 6A PROJECT NO. 16-096

