2 LEGEND 3 GENERAL NOTES, SPECIFICATIONS, & TYPICAL SECTION 4-7 PLAN 8 DETAILS 0.11 CROSS SECTIONS	(CONST	ARD OF COUNTY COMM RUCTION PLANS FOR EAST SIDEWALK EXTE			SUNSHINE STA ONE CALL DIAL 811 Local No. 1-800-4 Notification # <u>06860</u> Call 48 hours before STATE LAW	432-4770 300373
12-16 MAINTENANCE OF TRAFFIC			UNTY PROJECT NO. 1500			EXCAVATORS TO BEFORE DIGGING "UNDERGROUND	O CALL 811 IG PER THE FACILITY
					PROJECT LOCATION	DAMAGE PREVE SAFETY ACT" CH	ENTION AND HAPTER 556,
	FINANCIA		JECT ID# 431343-1-58-(JI		TO CALL CAN FINES FROM \$250	
US WM 21 US CALL AND A		(FEL	ERAL FUNDS)		THUNDERBIRD ROAD EAST SIDEWALK EXTENSION		
			HIGHLANDS COUNTY PROJECT NO. 15009				
				TASK NO.	BASE BID ITEM DESCRIPTION	QUANTITY	UNIT
					MOBILIZATION	1	LS
					BONDS & INSURANCE CONSTRUCTION SURVEY STAKING INCLUDING AS-BUILT	1	LS LS
The state of the s		\bigcirc			TESTING MAINTENANCE OF TRAFFIC	1	LS LS
PROJECT SITE					SEDIMENT BARRIER TEMPORARY	1,665	
					CLEARING AND GRUBBING INCLUDING TREE REMOVAL REMOVAL OF EXISTING ASPHALT PAVEMENT ROADWAY	1 81	LS SY
		C C			MAILBOX REMOVE AND RELOCATE	1	EA
A THE REPART OF THE PARTY OF THE					REGULAR EXCAVATION REGULAR EMBANKMENT	85	* -
THE PRIX DR				12	STABILIZATION, TYPE B, LBR 40, 12" COMPACTED THICKNESS SIDE	1,426	
VANTAGE TRCE. In a new part of the second se					STREET CONSTRUCTION & 8' SHOULDER OPTIONAL BASE, BASE GROUP 6, 8" COMPACTED THICKNESS	100	
				14	SUPERPAVE ASPHALTIC CONCRETE, 1 1/2" THICK, RAP 30% MAXIMUM	8	TN
	CLINTON HOWERTON, JR., P.E. COUNTY ENGINEER			INLET, DITCH BOTTOM, TYPE C	16	EA EA	
				18" x 12" REINFORCED CONCRETE PIPE (RCP)	48		
				15" CORRUGATED METAL PIPE (CMP) 15" REINFORCED CONCRETE PIPE (RCP)	11 40		
					15" HIGH DENSITY POLYETHYLENE PIPE (HDPE) 18" HIGH DENSITY POLYETHYLENE PIPE (HDPE)	1,360	
COUGAR BLVD.			GINEER OF RECORD		MITERED END SECTION	10	
PROJECT LOCATION MAP	JAMES D. LANGFORD, JR., P.E.			CONCRETE DISSIMILAR COLLAR SIDEWALK CONCRETE, 4" THICK, 3,000 PSI MIN	2 920		
SCALE: 1" = 2,000'		RIGHT-C	PF-WAY WIDTH = 68' WIDTH		CONCRETE DRAINAGE STRUCTURE, SEE DETAILS	920	EA
	APPRO	XIMATE PR	OJECT LENGTH = $1,812$ LF (0.343 MILE)		DETECTABLE WARNING, YELLOW, EMBEDDED PERFORMANCE TURF (SOD)	140 4,200	
		POSTI	ED SPEED LIMIT = 45 MPH		SINGLE POST SIGN, F & I, STOP (R1-1), 30" x 30" & TWO (2), D3-1	7	AS
GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS DATED 2016, AS AMENDED BY CONTRACT DOCUMENTS.			UTILITY COMPANIES		SINGLE POST SIGN, F & I, SPEED LIMIT, 45 MPH (R2-1), 24" x 30" TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 12"	400	AS LF
https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/roadway/floridagreenbook/2016floridagreenbookfinal-982972170.pdf?sfvrsn=946ed8	-	ST CABLE	HIGHLANDS COUNTY TRAFFIC CITY OF SEBRING		TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 12 TEMPORARY PAINTED PAVEMENT MARKINGS, STD, WHITE, SOLID, 24"	70	
GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2019/2020 STANDARD PLANS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND JANUARY 2020 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION; AS AMENDED BY CONTRACT DOCUMENTS.	3010 H	ERRING AVE. G. FL 33870	So5 S. COMMERCE AVE. 368 S. COMMERCE AVE. SEBRING, FLORIDA 33870 SEBRING, FLORIDA 33870		THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	400	
HIGHLANDS COUNTY TECHNICAL STANDARDS MANUAL, THROUGH RESOLUTION 14-15-60.	TIM HIN		EDDIE CARDONA BOB BOGGUS (863)402-6877 (863)471-5100	33		10	
http://cms2.revize.com/revize/highlandscounty/document_center/LDRS%20thru%20Ord%2017-18-15%20(7-25-18).pdf PLANS PREPARED BY HIGHLANDS COUNTY ENGINEERING DEPARTMENT				Point Numbor	PROJECT CONTROL POINTS Easting Northing Elevation Descrip	ion	
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS	924 ME	RY LINK MORIAL DR. PARK, FL 33825	DUKE ENERGY-FLORIDA P 2051 OLD SCENIC HWY. LAKE WALES, FL 33898	oint Number 5000	EastingNorthingElevationDescrip493225.3650'1151256.3750'161.51'Set Iron Rod w/ cap stamp		County"
MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.	KEN LU	ANN, TE 00020	(863)678-4476	5001	492398.4320' 1151256.2110' 164.68' Set Iron Rod w/ cap stamp		
	(000)+(52-5105		5002	491351.9530' 1151278.2980' 167.34' Set Iron Rod w/ cap stamp		
				5003	490401.6090' 1151276.8390' 169.60' Set Iron Rod w/ cap stamp		,
REVISIONS	STATUS	DESIGNED BY: J.D. LANFORD, P.E.	HIGHLANDS COUN	TY	STE HIZZ	SCALE: HORIZ.	
DATE BY DESCRIPTION 2–19–19 BWD REVISED PER FDOT COMMENTS		DRAWN BY: DOUG NIETUBICZ	ENGINEERING DEPARTM		THUNDERBIRD ROAD EAST	VERT.	<u> N/A</u>
2-5-2020 DMN REVISED STANDARDS AND SPECIFICATIONS DATES & QUANTITIES 3-18-2020 DMN REVISED QUANTITIES	FOR BID	CHECKED BY: J.D. LANGFORD, P.E.	505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870	U S	SIDEWALK EXTENSION	PROJECT 1500	CT NO. REV. 009 0
		IN CHARGE: J.D. LANGFORD, P.E. DATE:	APPROVED BY: JAMES D. LANGFORD, JR., P.E.	DATE:	COVER SHEET	SHEE	ET 1 OF 15
G: \PROJECTS\2015\15009 Thunderbird Rd Sidewalk - Comet to Grand Prix\All Drawings\Cover General Notes Details 15009 Thunderbird Rd.dwg, EAST COVER, Aca	d 1-/ Black.ctb	3/19/2020	FLORIDA REGISTRATION NO.: 78402				





THUNDERBIRD ROA	D EAST
SIDEWALK EXTER	NSION
	_

SCALE: HORIZ. N/A VERT. N/A	
PROJECT NO. 15009	REV. 0
SHEET 1 OF	15

LINE LEGEND		l Sy	MBOL LEGEND		ABBREVIATIONS	•	TREE LEGEND
	OVERHEAD WIRES	•	BENCHMARK	A.D.	ALGEBRAIC DIFFERENCE	*	CEDAR TREE
		•	CONCRETE MONUMENT	BFS	BEGIN FULL SUPER	Ō	CITRUS TREE
BEBEBEBE	BURIED ELECTRIC	0	IRON ROD OR IRON PIPE	BL	BASELINE		CYPRESS TREE
CASCASCASCASCASCAS	CONDUIT & CASEMENTS	۲	NAIL AND DISK	BNC	BEGIN NORMAL CROWN		MAGNOLIA TREE
BF0BF0BF0	BURIED FIBER OPTIC	○	CLEANOUT	CMP	CORRUGATED METAL PIPE	*	MAPLE TREE
		EM	ELECTRIC METER	CONC.	CONCRETE	and a start	OAK TREE
BTBTBTBT	BURIED TELEPHONE	₽	FLAG ELECTRIC	CONST.	CONSTRUCTION	*	PALM TREE
FMFMFM	FORCE MAIN	₽ ^{F0}	FLAG FIBER OPTIC	EFS	END FULL SUPER	*	PINE TREE
GGGG	GAS LINE	₽ °	FLAG GAS	ELEV	ELEVATION	9	TREE
		>55	FLAG SEWER	ENC	END NORMAL CROWN		TREE A
wwww	WATER LINE	, ⊳w	FLAG TELEPHONE	EXIST.	EXISTING		TREE B
CTVCTVCTVCTV	CABLE TELEVISION		FLAG WATER	HDPE	HIGH DENSITY POLYETHYLENE PIPE	*	TREE C
X X X X X	WIRE FENCE	Å.	FIRE HYDRANT	LC	LONG CHORD	*	TREE D
		X	GAS VALVE				
	CHAIN LINK FENCE	EB		MES			
	WOOD FENCE	町 VT		PAVT			
	EXISTING TOP OF BANK	TS	TELEVISION BOX TRAFFIC SIGNAL BOX	PC	POINT OF CURVATURE PROFILE GRADE LINE		
	EXISTING TOE OF SLOPE		PEDESTRIAN CROSSWALK	PROP.	PROPILE GRADE LINE PROPOSED		
		±	LIGHT POLE	PT			
	EXISTING EDGE OF SHELL ROCK	D	MANHOLE DRAINAGE	PVC	POINT OF VERTICAL CURVE		
	EXISTING RIGHT OF WAY LINE	Ŵ	MANHOLE OTHER	PVI	POINT OF VERTICAL INTERSECTION		
	PROPOSED RIGHT OF WAY LINE	S	MANHOLE SEWER	PVT	POINT OF VERTICAL TANGENCY		
		Ō	MANHOLE TELEPHONE	R/W	RIGHT OF WAY		
	EXISTING GRADE AT R/W RT (PROFILE VIEW)		MONITORING WELL	RC	REVERSE CROWN		
	EXISTING GRADE AT R/W LT (PROFILE VIEW)	പ	UTILITY POLE	RCP	REINFORCED CONCRETE PIPE		
	EXISTING GRADE AT CONST BL (PROFILE VIEW)	O	WATER METER	RT	RIGHT		
150	EXISTING CONTOURS WITH ELEVATIONS	×	WATER VALVE	STA	STATION		
	EXISTING CONTOURS WITH ELEVATIONS	@	WELL	TYP	TYPICAL		
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	EXISTING GUARDRAIL	十0.00	PROPOSED ELEVATIONS				
	EXISTING EASEMENT	0	BOLLARD				
				r	DRAINAGE LEGEND		
	GOVERNMENT FRACTIONAL LINES		SIGN MITERED END SECTION				
	LOT LINES		GUY ANCHOR		PROPOSED PIPES & STRUCTURES		
	PROPOSED SOD SHOULDER LINE			L			
	PROPOSED BACK OF DITCH						
	PROFILE GRADE LINE (PROFILE VIEW)						
	PROPOSED CURVE RETURN						
	PROPOSED CENTERLINE OR BASELINE						
L							
REVISIONS	STATUS DES JD.	SIGNED BY: LANGFORD, P.E. HIGH	HLANDS COL	JNTY 🕹 🖌	OF HIR		SCALE: HORIZ.
DATE BY DESCRIPTION	DATE BY DESCRIPTION DESCRIPTION DESCRIPTION DECOMPTION DECOMPTION DECOMPTION DECOMPTION DECOMPTION DECOMPTION DECOMPTION						
	FOR BID CHECKED BY: JD. LANGFORD, P.E. N. CHARGE: 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870						
	J.D.	LANGFORD, P.E.	JAMES D. LANGFORD, JR., P.E.	DATE:		EGEND	SHEET 2 OF 15
© \PROJECTS\2015\15009 Thunderbird Rd Sidewalk - Cornet to Grand Prix\All Drawings_Details Legend 15009 Thunderbird Rd Sidewalk.dwg, East Legen	d, Nietubicz, Douglas Acad 1–7 Black.ctb J/19 3/19		RATION NO.: 78402				

SCALE: HORIZ. VERT. N/A	
PROJECT NO. 15009	REV. 0
	. 15

GENERAL NOTES AND SPECIFICATIONS

GENERAL CONSTRUCTION NOTES

- 1. The Contractor shall be responsible for furnishing all material and labor to construct the facility as shown and described in the construction documents.
- The Contractor shall be responsible for obtaining all required construction bonds prior to construction.
- The Contractor shall have available at the job site at all times one copy of the construction documents including plans, specifications, and special conditions and copies of any required construction permits.
- 4. Any discrepancies on the drawings shall be immediately brought to the attention of the Highlands County Project Manager before commencing work. No field changes or deviations from design are to be made without prior approval of the Highlands County Project Manaaer.
- Contractor shall submit a construction schedule to the Highlands County Project Manager prior to commencement of construction.
- Contractor shall coordinate proposed driveway construction with affected property owners.

Contractor shall repair and/or replace all disturbed irrigation. Contractor shall coordinate this activity with affected property owners. EROSION CONTROL

- The Contractor shall grade the site to the elevations indicated and shall regrade washouts where they occur after every rainfall event until sod is well established or adequate stabilization occurs.
- 2. Contractor shall denote on plan the temporary parking and storage area which shall also be used as the equipment maintenance and cleaning area, employee parking area, and area for locating toilet facilities
- All wash water (concrete trucks, vehicle cleaning, equipment cleaning, etc.) shall be detained and properly treated and disposed.
- The Contractor shall be responsible for the control of dust and dirt rising and scattering in the air during construction and shall provide water sprinkling or other suitable methods of control. The Contractor shall comply with all governing regulations pertaining to environmental protection.
- The use of motor oils and other petroleum based or toxic liquids for dust suppression operations is prohibited.
- Sod must be installed and maintained on exposed slopes within 48 hours of completing final grading, and at any other time as necessary, to prevent erosion, sedimentation or turbid discharges.
- 7. Stabilization practices should be initiated as soon as practical, but in no case more than 7 days where construction has temporarily ceased.
- All materials spilled, dropped, washed or tracked from vehicles onto roadways or into storm drains must be removed as soon as possible. On-site & off-site soil stockpile and borrow areas shall be protected from erosion and sedimentation through implementation of best 9. management practices.
- 10. Slopes shall be left in a roughened condition during the grading phase to reduce runoff velocities and erosion.
- 11. Due to grade changes during the development of the project, the Contractor shall be responsible for adjusting the erosion control measures (silt fence, etc.) to prevent erosion.
- 12. All construction shall be stabilized at the end of each working day, this includes back filling of trenches for utility construction and placement of gravel or bituminous paving for road construction.
- 13. The contractor shall install sediment barrier as shown on plans within the perimeter of the project site.

SURVEY AND STAKEOUT

- 1. Existing section corners and ¼ Section corners, and other land markers or monuments located within proposed construction are to be referenced prior to construction and reset after construction. The Contractor shall have this work done by a registered Professional Land Surveyor at the Contractor's expense (Florida Registration). 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 Contractor should notify the County Surveyor, without delay, by telephone (863-402-6877).
- Benchmark data is North American Vertical Datum of 1988 (NAVD 88).
- Any NGVD-29 monument within the limits of construction is to be protected. If in danger of damage, the Contractor should notify: Geodetic Information Center, Attn: Mark Maintenance Section N/CG-162, 6001 Executive Boulevard, Rockville, Maryland 20852. Telephone (301) 443-8319.
- Grades shown are the finished arades, unless otherwise indicated.
- The Contractor shall remove survey stakes and erosion control items prior to the completion of the contract. The Contractor shall be responsible for submitting to the Highlands County Project Manager a certified record survey signed and sealed by 6. a Professional Land Surveyor registered in the state of Florida depicting the actual field location of all constructed improvements that are required by the jurisdictional agencies for the certification process. All survey costs will be the Contractor's responsibility.

UTILITIES

- It is the Contractor's responsibility to contact the various utility companies which may have buried or aerial utilities within or near the construction area before commencing work. The Contractor shall call 811 to provide 48 hours minimum notice to all utility companies in advance of any excavation involving their utilities so that a company representative can be present. A list of the utility companies which the Contractor MUST call before commencing work is provided in these construction plans. This list serves as a guide only and is not
- intended to limit the utility companies which the contractor may wish to notify. 2. Existing utilities shown are located according to the information available to the Engineer at the time of the topographic survey and have not been independently verified by the Owner or the Engineer. Guarantee is not made that all existing underground utilities are shown or that the location of those shown are entirely accurate. Finding the actual location of any existing utilities is the Contractor's responsibility and shall be done before he/she commences any work in the vicinity. Furthermore, the Contractor shall be fully responsible for any and all damages due to the Contractor's failure to exactly locate and preserve any and all underground utilities. The Owner or Engineer will assume no liability for any damages sustained or cost incurred because of the operations in the vicinity of existing utilities or structures, nor for temporary bracing and shoring of same. If it is necessary to shore, brace, swing or relocate a utility, the utility company or department affected shall be contacted and their permission obtained regarding the method to use for such work. In addition, the Contractor shall be responsible to verify if "other" utilities (Not shown in the plans) exist within the area of construction. Should there be utility conflicts, The Contractor shall inform the Engineer and notify the respective utility owners to resolve utility conflicts and utility adjustments as required. The Contractor is to use caution when working in or around areas of overhead transmission lines or underground utilities.
- Prior to commencement of any excavation, the contractor shall comply with Florida Statute 553.851 for the protection of underaround aas
- pipelines.
- 5. All valves within area of construction or disturbed by construction to be adjusted to finished arade. Replace valve collars and boxes as necessary.
- CLEARING AND GRUBBING
- 1. Contractor shall clear and grub all areas unless otherwise indicated, removing trees, stumps, roots, muck, existing pavement, existing concrete and all other deleterious material.

PAVING, GRADING AND DRAINAGE

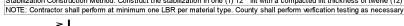
- 1. Where new pavements meets the existing pavement, the Contractor shall saw cut the existing pavement a minimum 2" deep for a smooth and straight joint and match the existing pavement elevation with the proposed pavement unless otherwise indicated.
- All cut or fill slopes shall be 4 (horizontal): 1 (vertical) or flatter unless otherwise shown.
- Existing drainage structures within construction limits shall remain unless noted otherwise.
- Contractor is responsible for repairing any existing concrete or asphalt areas that are disturbed during construction.

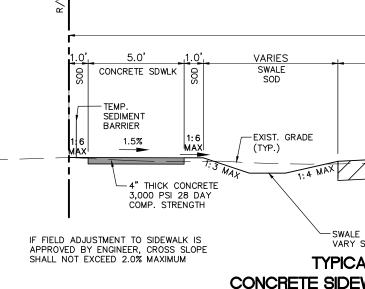
- PAVEMENT MARKING AND SIGNAGE
- Stop bars shall be 24" white stripes.
- 2. Temporary pavement markings shall be provided by the end of each day's operation. .3.
- Edition 4. Sian substrate shall be aluminum.
- 5.
- Traffic signs shall be mounted on 3" diameter post with "Z" bar brackets. Sign post underground support shall be 6" aluminum "Z" bar brackets (no concrete).
- 6. 7.
- Blvd., Sebring, FL 33875.
- <u>SOD</u>

All disturbed areas within the project limits shall be sodded with "like kind" sod. The areas on which sod is to be placed shall be 1. thoroughly wetted prior to and after placement is complete. No addition of top soil material is required prior to placement. All sod materials shall be subject to inspection by the Highlands County Project Manager prior to placement. Any sod with noxious weeds and grasses including tropical soda apple, shall be rejected for use on the spot. All areas within the project site shall be sodded unless indicated in these construction plans. <u>TESTING</u>

- of the test results shall be provided to the Highlands County Project Manager. 2.
- of work or materials to conform with the plans and specifications.
- the testing agency.

THUNDERBIRD ROAD EAST SIDEWALK EXTENSION PROJECT NO. 15009			
CONTRACTOR REQUIRED QUALITY CONTROL MATERIALS TESTING			
Sidewall	k Construction: IN-SITU SOIL TESTING REQUIREN	IENTS (6" COMPACTED THICKNESS)	
TEST NAME	QUALITY CONTROL	ACCEPTANCE	
DENSITY	ONE (1) PER LIFT, TEN (10) TOTAL	Minimum density of 95% of AASHTO T99 density.	
Construction Method: Compact a	area directly under the sidewalk and one (1) foot beyo	nd each side of the sidewalk to a depth of six (6) inches.	
Roadway Full Depth Con	struction: TYPE B STABILIZATION (LBR 40) TEST	ING REQUIREMENTS (12" COMPACTED THICKNESS)	
TEST NAME	QUALITY CONTROL	ACCEPTANCE	
DENSITY	TWO (2) PER LIFT, TWO (2) TOTAL	Minimum density of 98% of the Modified Proctor maximum density as determined by FM 1-T 180, Method D	
THICKESS	TWO (2) PER LIFT, TWO (2) TOTAL	Compacted lift thickness = 12", tolerance = 0.5"	
Stabilization Construction Metho	d: Construct the stabilization in one (1) 12" lift with a	compacted lift thickness of twelve (12) inches.	
NOTE: Contractor shall perform a	at minimum one LBR per material type. County shall	perform verfication testing as necessary.	
Roadway Full Depth	Construction: OPTIONAL BASE GROUP 6 TESTIN	G REQUIREMENTS (8" COMPACTED THICKNESS)	
TEST NAME	QUALITY CONTROL	ACCEPTANCE	
DENSITY	ONE (1) PER LIFT, ONE (1) TOTAL	Minimum density of 98% of the Modified Proctor maximum density as determined by FM 1-T 180. Method D	
THICKESS	TWO (2) PER LIFT, TWO (2) TOTAL	Compacted lift thickness = 8", tolerance = 0.5"	
Optional Base Group 6 Construct	tion Method: Construct the base in one (1) lift with a	compacted lift thickness of eight (8) inches.	
Roadway Ful	I Depth Construction: ASPHALT TESTING REQUI	REMENTS (1.5" COMPACTED THICKNESS)	
TEST NAME	QUALITY CONTROL	ACCEPTANCE	
THICKESS	TWO (2) PER LIFT, TWO (2) TOTAL	Compacted lift thickness = 1.5", Tolerance = 0.3"	
Asphalt Construction Method: As	sphalt shall be placed in one (1) lift with a compacted	lift thickness of 1.5".	
Shoulder Construct	tion: TYPE B STABILIZATION (LBR 40) TESTING F	REQUIREMENTS (12" COMPACTED THICKNESS)	
TEST NAME	QUALITY CONTROL	ACCEPTANCE	
DENSITY	ONE (1) PER LIFT, TEN (10) TOTAL	Minimum density of 95% of the Modified Proctor maximum density as determined by FM 1-T 180, Method D	
THICKESS	ONE (1) PER LIFT, TEN (10) TOTAL	Compacted lift thickness = 12", tolerance = 0.5"	
	d: Construct the stabilization in one (1) 12" lift with a		







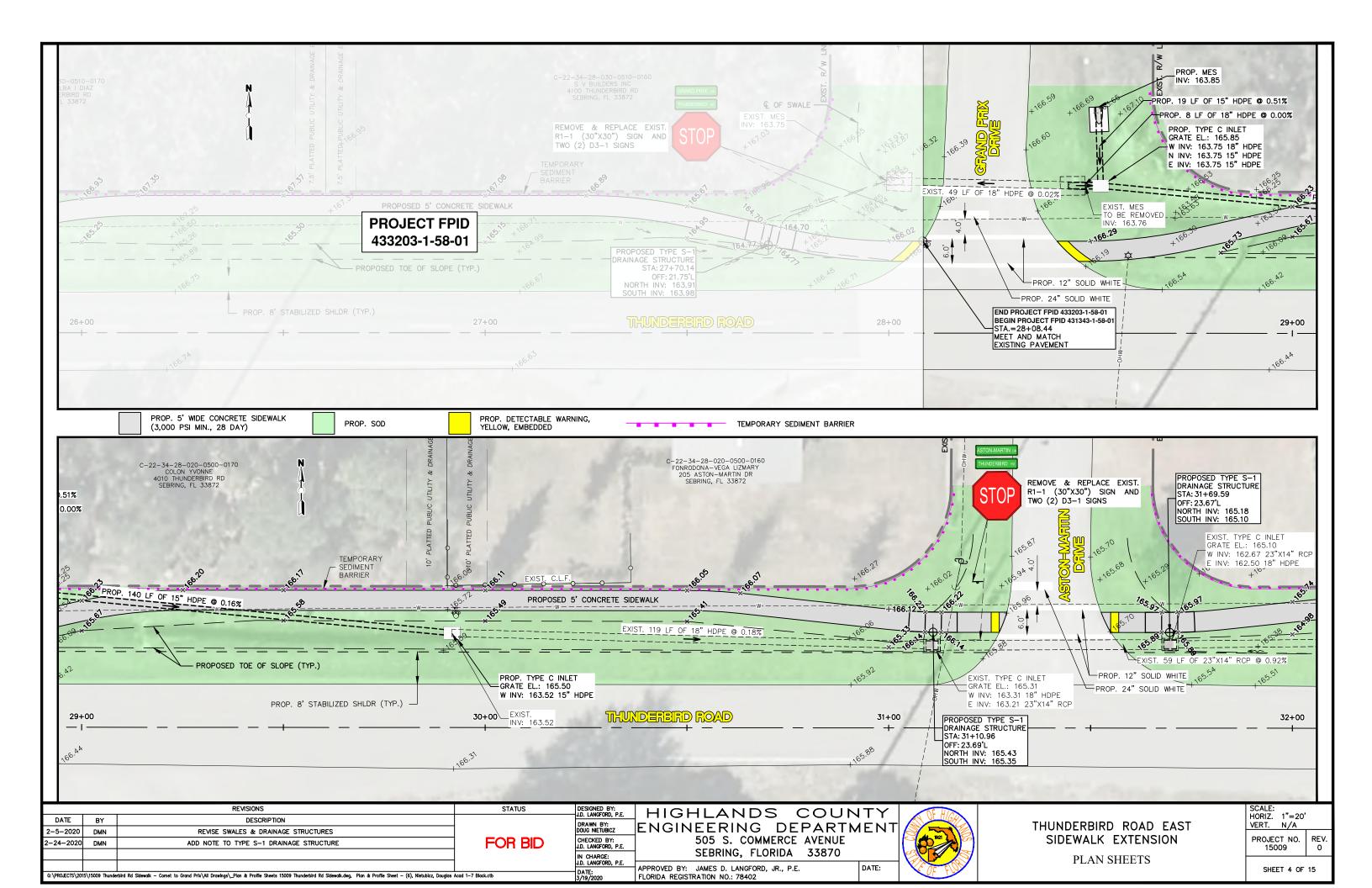
		REVISIONS	STATUS	DESIGNED BY: J.D. LANGFORD, P.E.	HIGHLANDS COUNTY	
DATE	BY	DESCRIPTION				
2-19-	19 BWD	REMOVED NOTE PER FDOT COMMENTS	1	DRAWN BY: DOUG NIETUBICZ	ENGINEERING DEPARTMENT	
3-18-2	D20 DMN	REVISED TYPICAL SECTION AND ADDED NOTE.	FOR BID	CHECKED BY: J.D. LANGFORD, P.E.	505 S. COMMERCE AVENUE	
]	IN CHARGE:	SEBRING, FLORIDA 33870	
				J.D. LANGFORD, P.E.	APPROVED BY: JAMES D. LANGFORD, JR., P.E. DATE:	
G: \PROJECT	S\2015\15009 Thun	terbird Rd Sidewalk - Comet to Grand Prix All Drawings Cover General Notes Details 15009 Thunderbird Rd.dwg, GENERAL NOTES EAST, Nietubicz, Douglas Acad 1-7	'Black.ctb	DATE: 3/19/2020	FLORIDA REGISTRATION NO.: 78402	

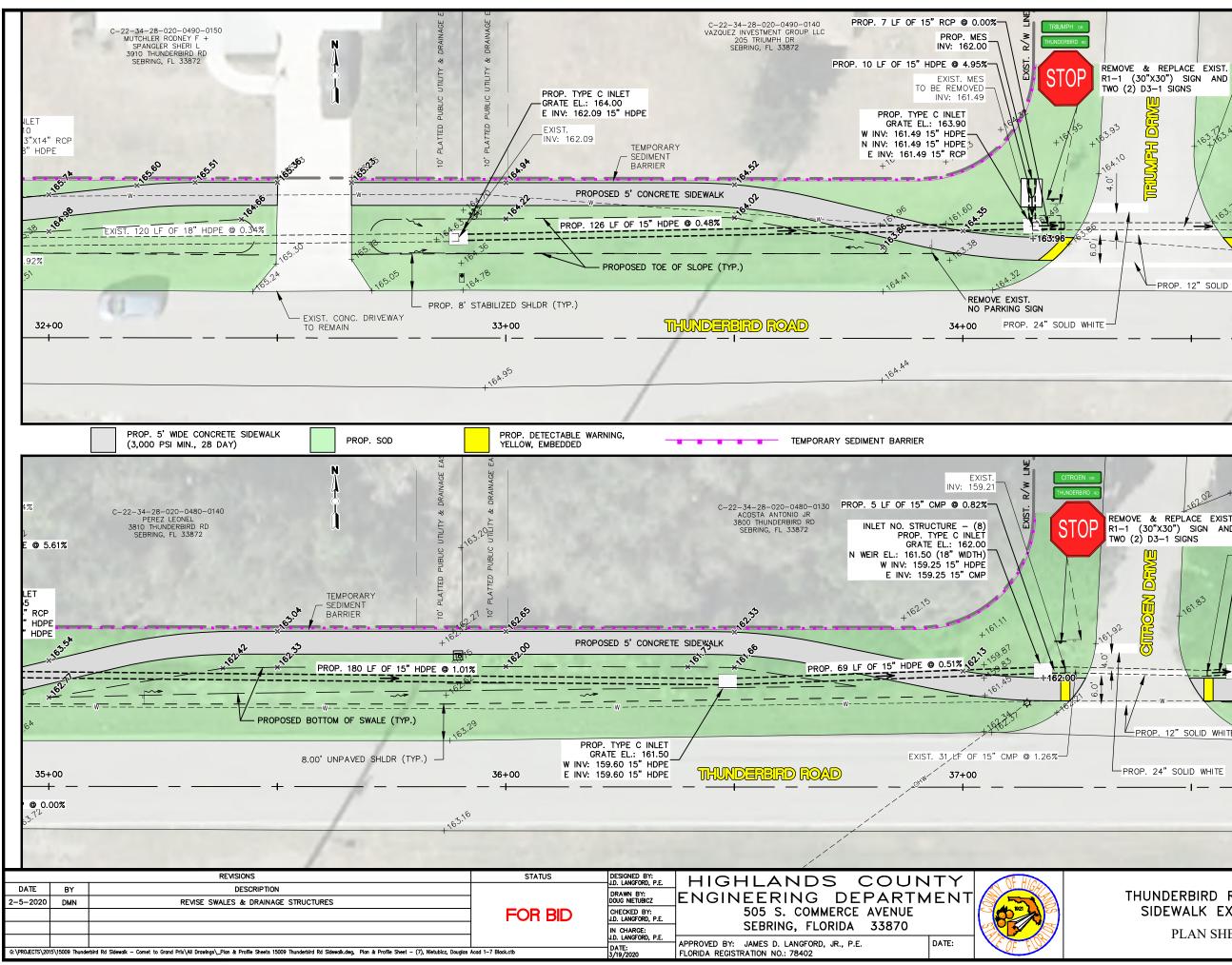
All pavement markings and signage shall be installed in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). 2009

All removed sign assemblies shall be brought by the contractor to the Highlands County Traffic Operations Office located at 4300 George

1. Contractor shall perform, at his own expense, any and all tests required by the specifications and/or any agency having jurisdiction. A copy The Highlands County Project Manager shall inspect all construction and is authorized to call to the attention of the Contractor any failure All copies of compaction, concrete and other required test results are to be sent to the Highlands County Project Manager directly from

VARIES			_
8.0'	11.0'		
UNPAVED SHLDR SOD	EB TRAVEL LANE		
6.0% STABILIZATION, TYPE B, 12" COMPACTED THICKN		XIST. RDWY	
LEPTH AND WIDTH EE CROSS SECTIONS IL SECTION WALK CONSTRUC 8.44 TO STA 46+2			
THUNDERBIRD SIDEWALK F	EXTENSION	SCALE: HORIZ. N/A VERT. N/A PROJECT NO. 15009	REV 0
GENERAL NOTES	& QUANTITIES	SHEET 3 OF	15





63.03 16.10 16	
REMOVE & REPLACE EXIST. RI-1 (30"X30") SIGN AND WO (2) D3-1 SIGNS EXIST. INV: 159.60 PROP. 6 LF OF 15" CMP @ 0.16% INV: 159.50 PROP. TYPE C INLET GRATE EL: 162.00 N WEIR EL: 161.50 (18" WIDTH) W INV: 159.59 15" CMP E INV: 159.59 15" HDPE PROP. 12" SOLID WHITE PROP. 24" SOLID WHITE 38+00	
	EV. 0

R∕ W

REMOVE & REPLACE EXIST.

TWO (2) D3-1 SIGNS

000

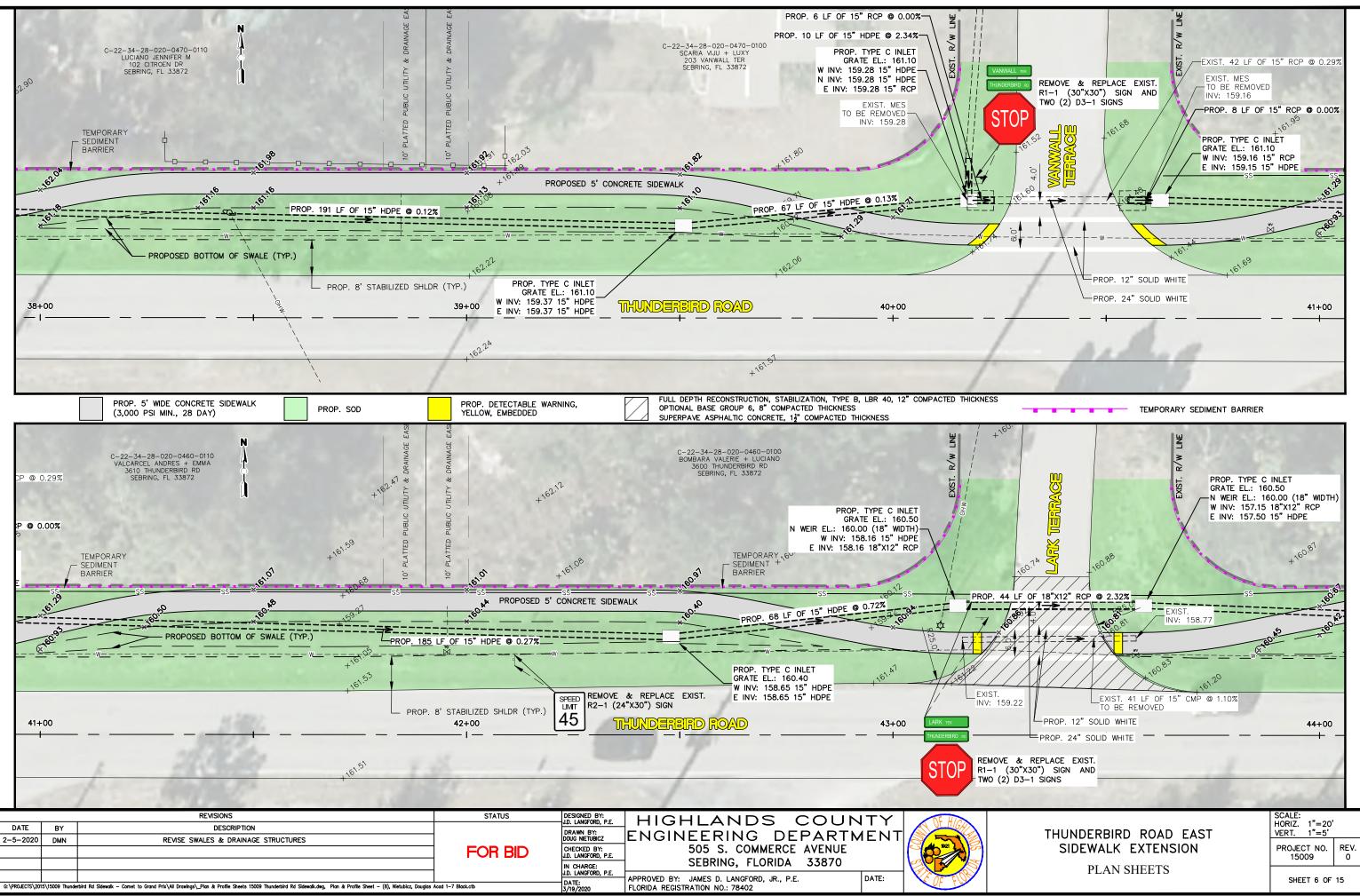
EXIST. 52 LF OF 1

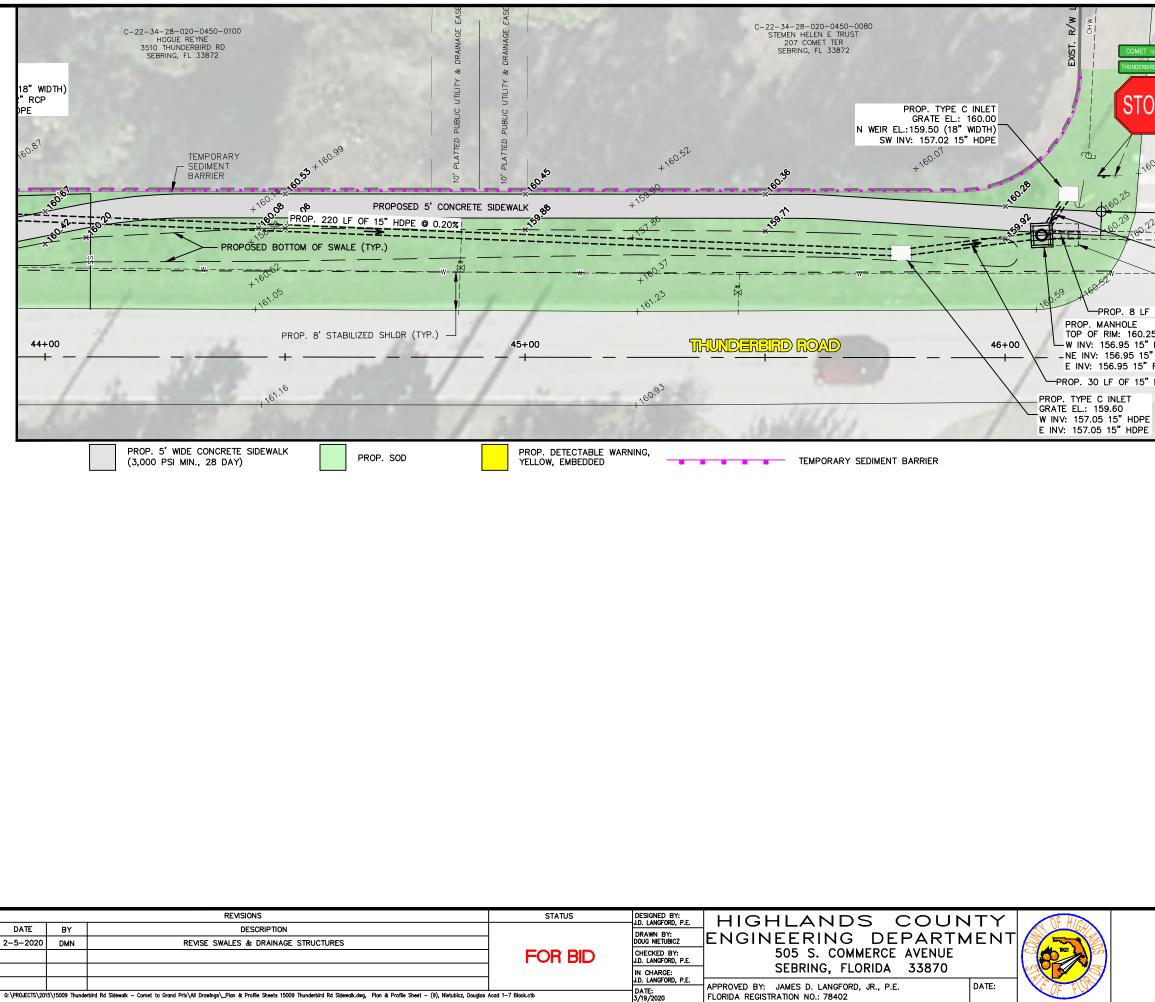
INV: 162.00

52 LF OF 15" RCP @ 0.14%

PROP. 10 LF OF 15" HDPE @ 5.61%

22

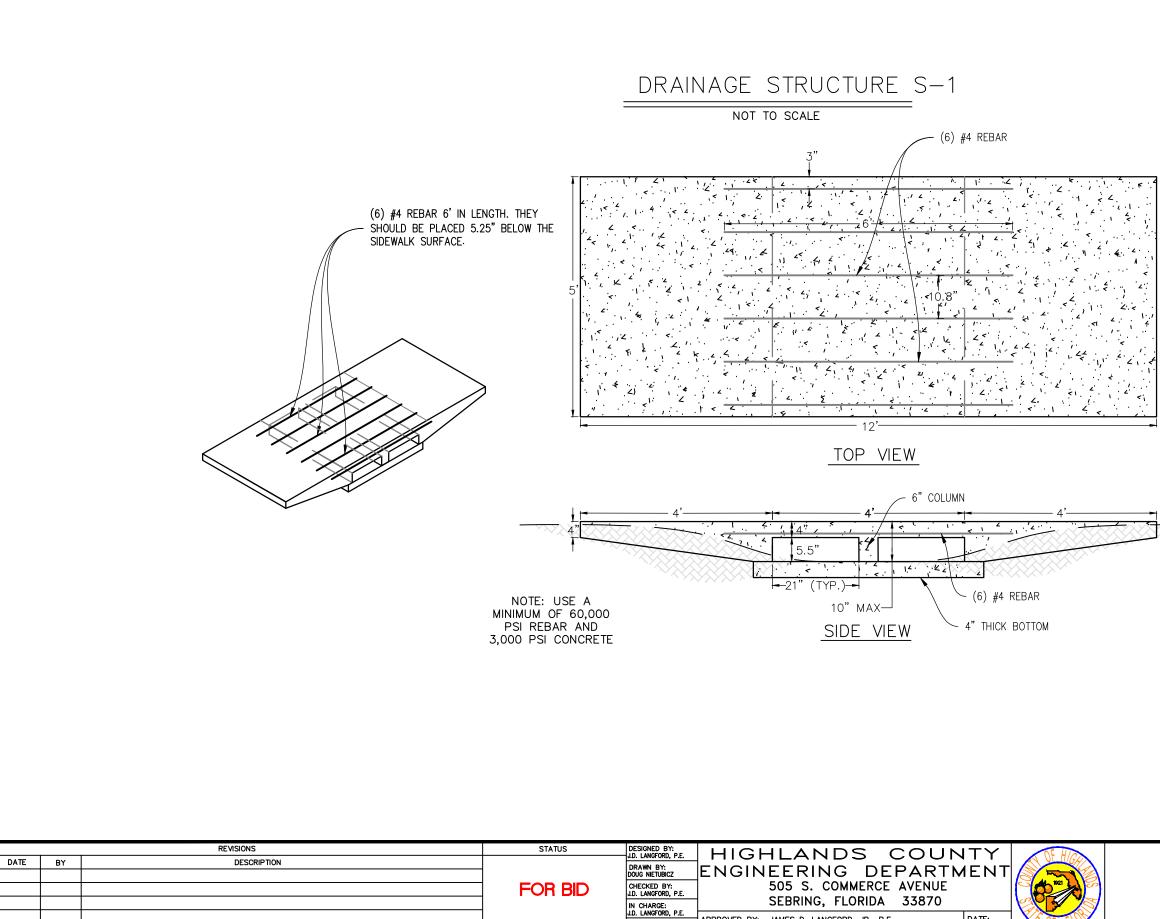




2
REMOVE & REPLACE EXIST. R1-1 (30"X30") SIGN AND TWO (2) D3-1 SIGNS
160.12 III
PDC CONSTRUCTION EAST SIDEWALK EXTENSION STA.= 46+20.04 MEET AND MATCH EXIST. 5' WIDE CONC. SDWLK
PROP. 10 LF OF 15" HDPE @ 0.69%
EXIST. MES TO BE REMOVED INV: 156.95
F OF 15" RCP @ 1.00%
.25 " HDPE 46+50 5" HDPE1 " RCP
" HDPE @ 0.34%
E

THUNDERBIRD ROAD EAST SIDEWALK EXTENSION PLAN SHEETS

SCALE: HORIZ. VERT.	1"=20' N/A	
PROJEC 150		REV. 0



APPROVED BY: JAMES D. LANGFORD, JR., P.E. FLORIDA REGISTRATION NO.: 78402

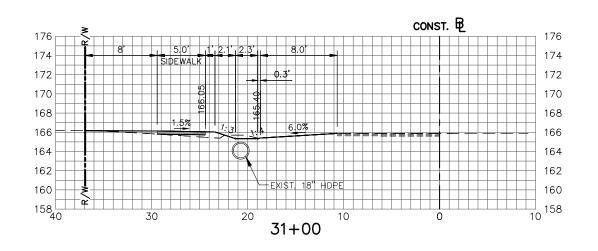
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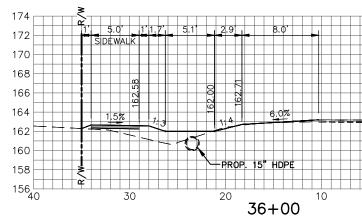
& \PROJECTS\2015\15009 Thunderbird Rd Sidewalk - Cornet to Grand Prix\All Drawings_Details Legend 15009 Thunderbird Rd Sidewalk.dwg, East SW Struct Detail, Nietubicz, Douglas Acad 1-7 Black.ct

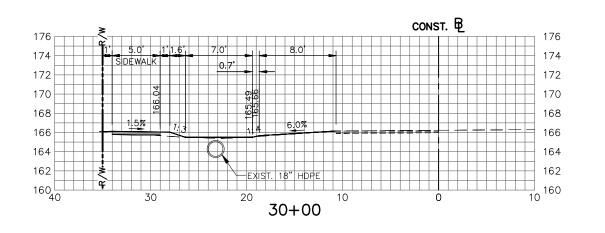
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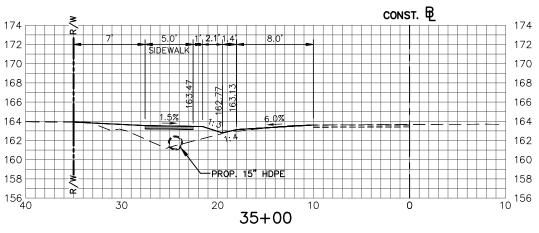
THUNDERBIRD ROAD EAST SIDEWALK EXTENSION
DETAILS

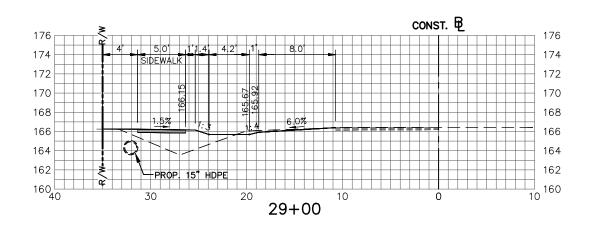
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PROJECT 15009	NO.	REV. 0
SHEET	8 OF	15

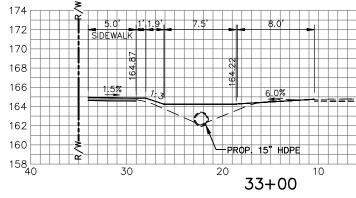




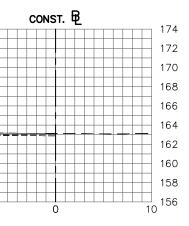


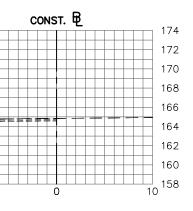






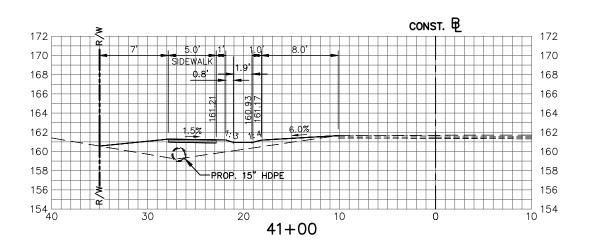


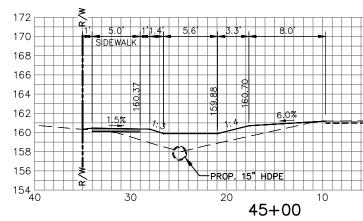


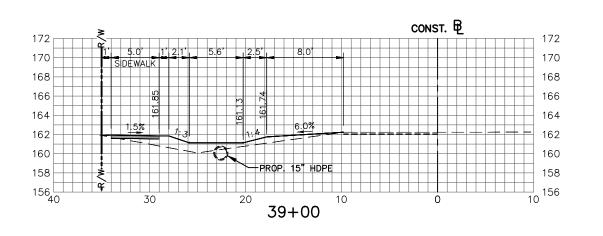


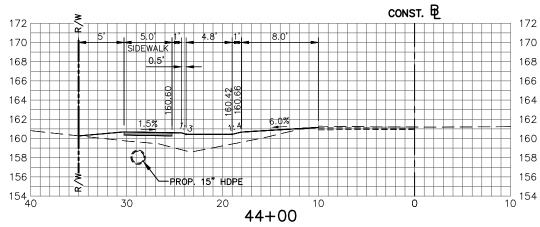
THUNDERBIRD ROAD EAST SIDEWALK EXTENSION CROSS SECTIONS

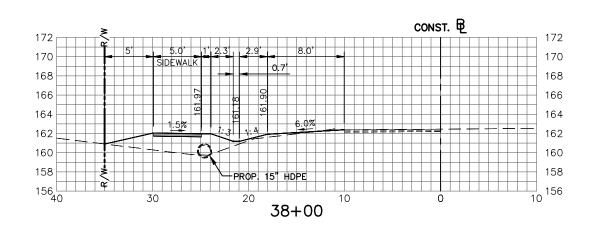
SCALE: HORIZ. VERT.	1"=10' 1"=10'	
PROJEC 150		REV. 0
SHEE	ET 9 OF	15

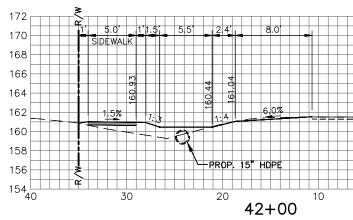




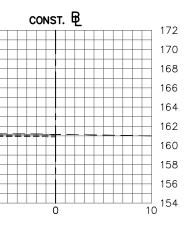


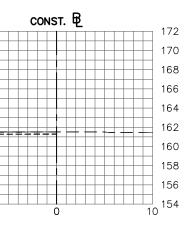






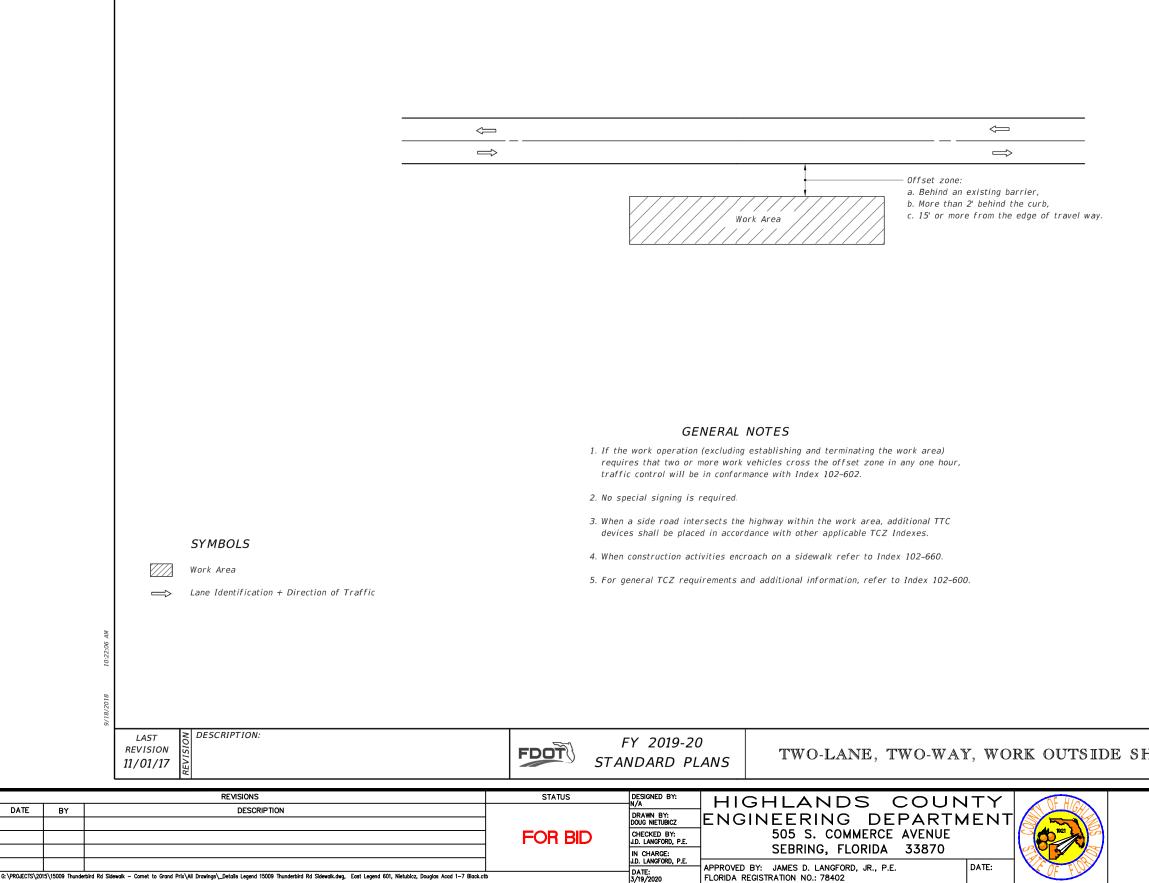




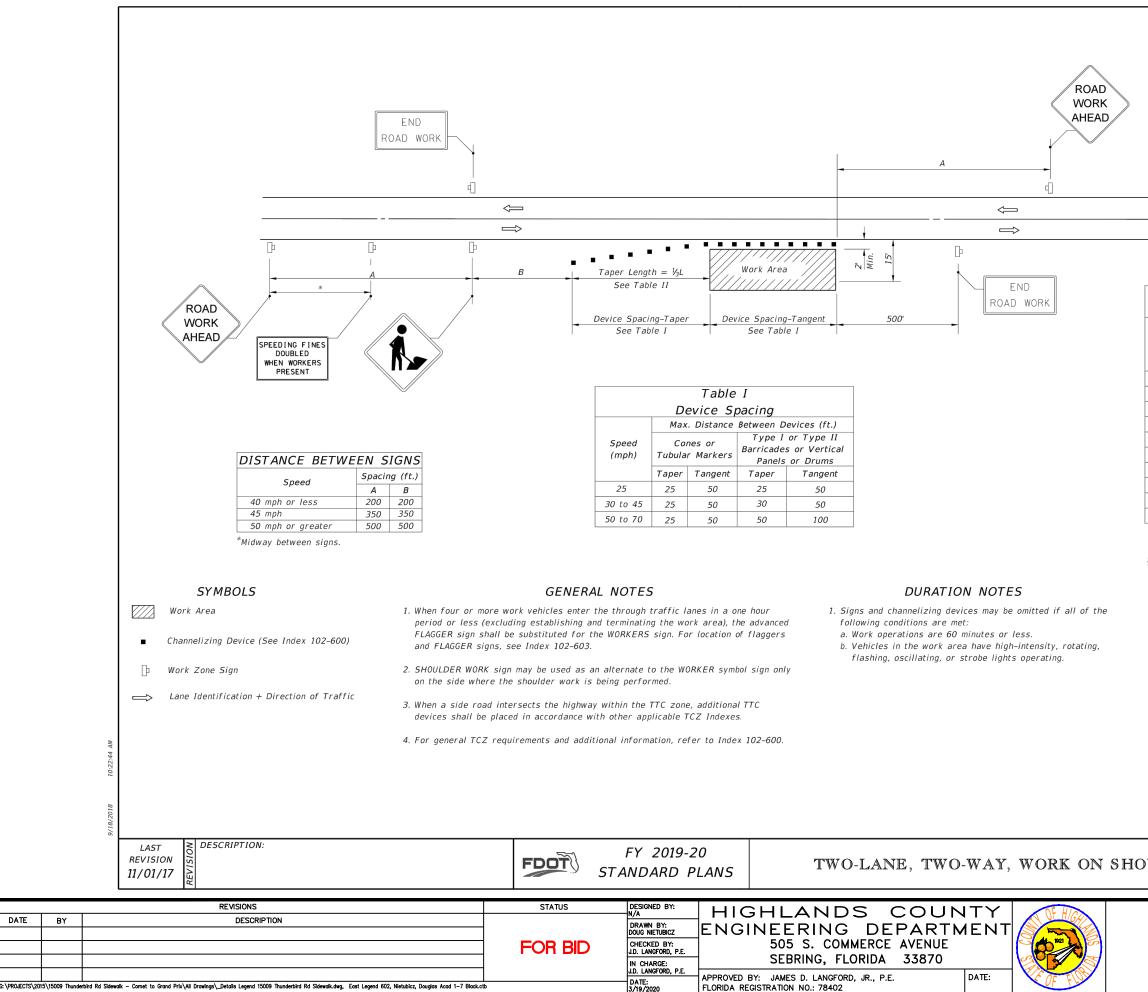


THUNDERBIRD ROAD EAST SIDEWALK EXTENSION CROSS SECTIONS

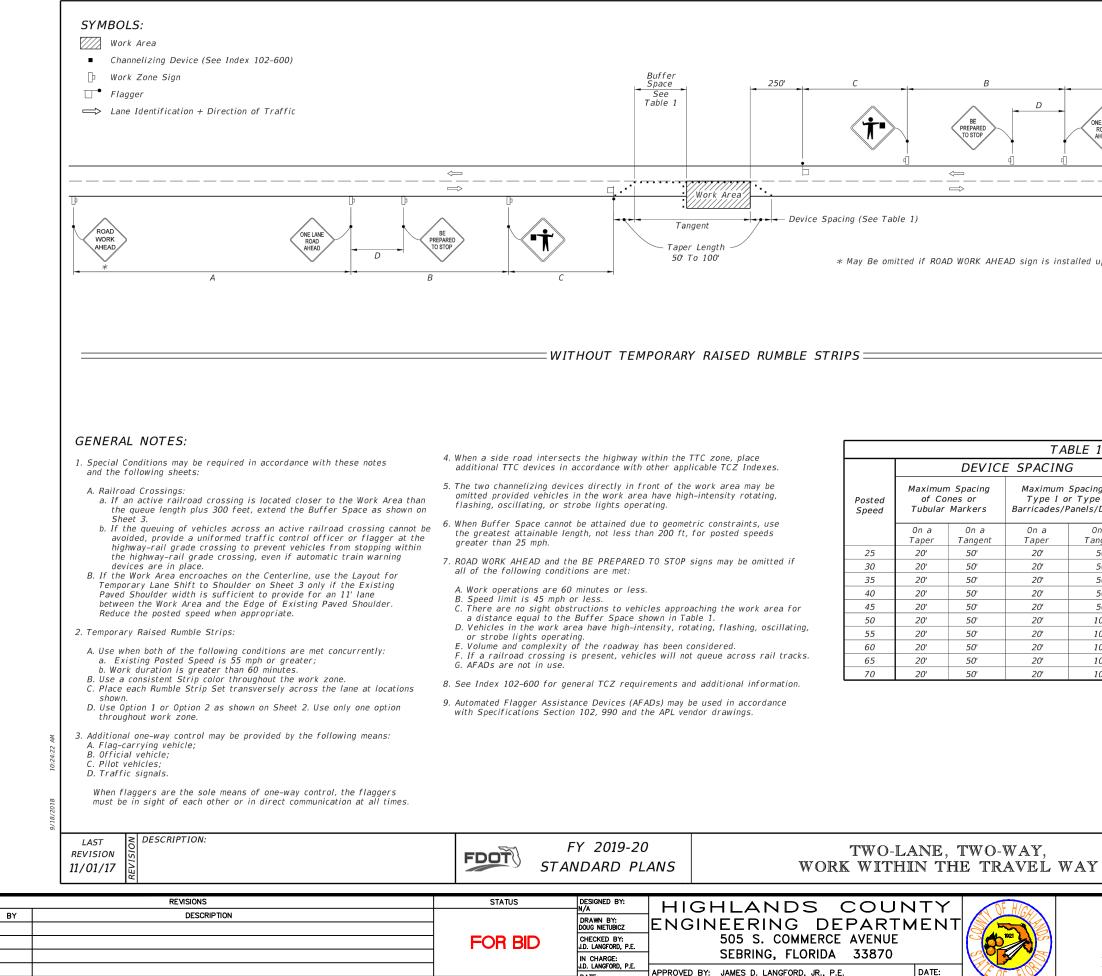
SCALE: HORIZ. VERT.	1"=10' 1"=10'	
PROJEC 150		REV. 0
SHEE	T 10 OF	15



CONDITI WHERE ANY VEHICLE			
WORKERS AND THEI ARE BEHIND AN EXI	STING BARRIER	,	
MORE THAN 2' BEHI OR 15' OR MORE FRC OF TRAVEL WAY.			
HOULDER	INDEX	SHEET	
	102-601	1 of 1	
TUNDEDES			SCALE: HORIZ.
THUNDERBIR SIDEWALK	VERT. N/A PROJECT NO. REV. 15009 0		
FDOT MAINTEN	ANCE OF T	RAFFIC	SHEET 11 OF 15



	T	able	II				
Тар	er Lei	ngth -	Sho	ulder	-		
Speed		⅓L (ft)		Notos			
(mph)	8'	10'	12'	Notes			
25	Shldr. 28	Shldr. 35	Shldr. 42		-		
30	40	50	60	$L = \frac{WS^2}{2}$			
35	55	68	82	$L = \frac{1}{60}$			
40	72	90	107		-		
45	120	150	180				
50 55	133 147	167 183	200 220				
60	160	200	240	L=WS			
65	173	217	260				
70	187	233	280				
(cc S = Po W W EI TI	dth of t ombined sted sp (C HERE A ORKERS NCROAC HAN 15' TO TH	otal shou paved ar eed limit NY VEHI S OR THI B UT NO	ulder ir ad unpa (mph) TION CCLE, E EIR AC AREA C T CLOS OF TR.	n feet wed width S QUIPMENT TIVITIES	г,		
THUNDERBIRD ROAD EAST SIDEWALK EXTENSION FDOT MAINTENANCE OF TRAFFIC					SCALE: HORIZ. VERT. N/A PROJECT NO. 15009 C SHEET 12 OF 15		



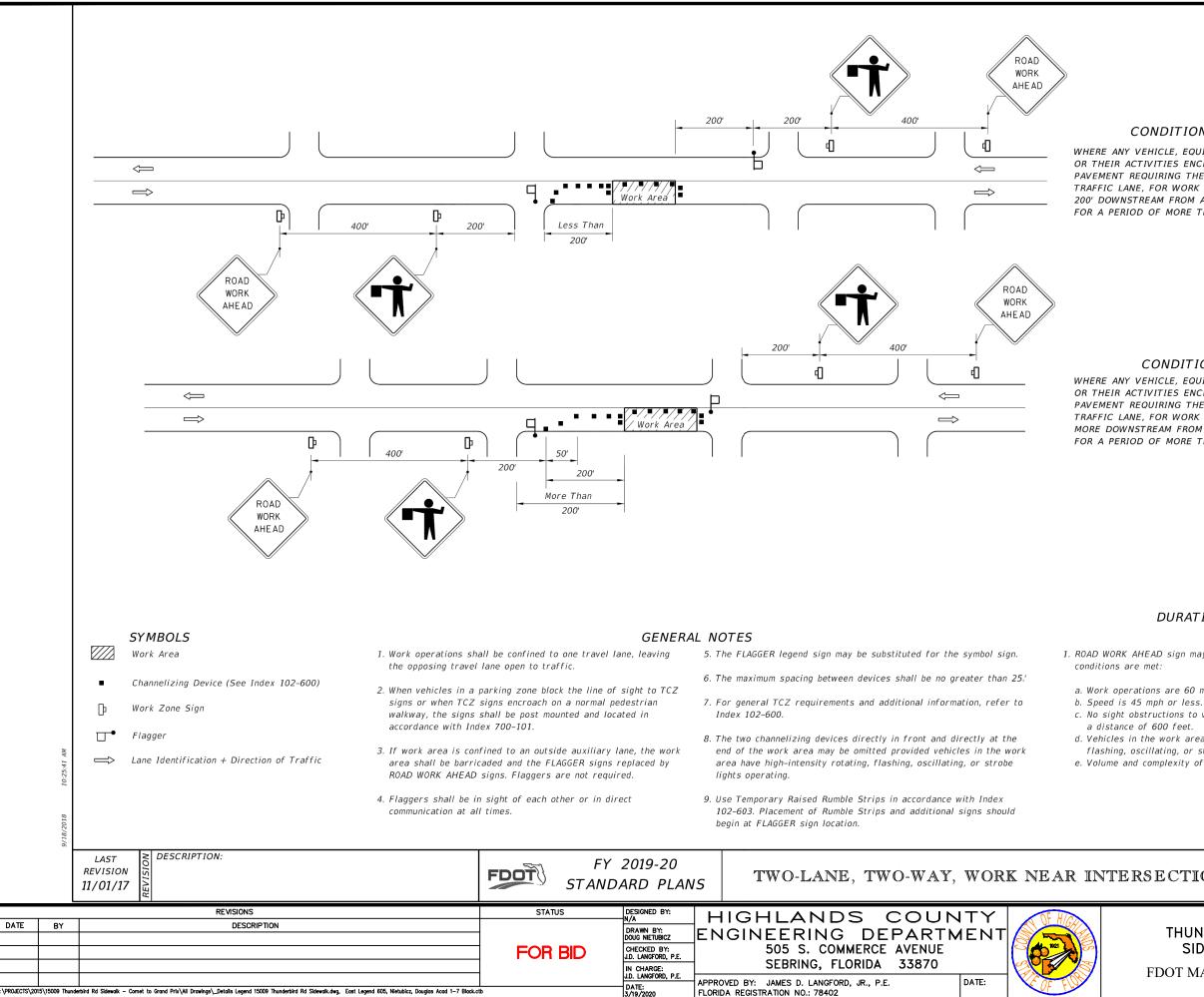
DATE: 3/19/2020

FLORIDA REGISTRATION NO.: 78402

DATE

S:\PROJECTS\2015\15009 Thunderbird Rd Sidewalk - Comet to Grand Prix\All Drawings_Details Legend 15009 Thunderbird Rd Sidewalk.dwg, East Legend 603, Nietubicz, Douglas Acad 1-7 Black.ct

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Upstream	within	the pi	A 			ROAD WORK AHEAD *			
AHEAD						AHEAD			
						* [
upstream	within	the pr	roject	limits.					
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pe II s/Drums			veen gns		Buffe Space				
					Space				
On a angent	A	В	С	D					
50'	200'	200'	200'	100'	155'				
50'	200'	200'	200'	100'	200'				
50'	200'	200'	200'	100'	250' 305'	_			
50' 50'	200' 350'	200' 350'	200' 350'	100' 175'	360'				
100'	500'	500'	500'	250'	425'	_			
100'	2640'	1500'		500'	495'				
100'	2640'	1500'	1000' 1000'	500'	570'				
100' 100'	2640' 2640'	1500' 1500'	1000' 1000'	500' 500'	645' 730'	_			
WHE WOR ENCI THE	KERS ROACH CENTE	Y VEH OR TH THE ERLINE	ICLE, EIR AC AREA I AND	EQUIPN CTIVITI BETWEN A LINE TRAV	'ES EN	<i>.</i>			
ř				INDEX		SHEET	1		
L			10	2-60		1 of 3	J		
								SCALE:	_
THUNDERBIRD ROAD EAST SIDEWALK EXTENSION						HORIZ. VERT. N/A	EV.		
						AFFIC			2 V. D



FLORIDA REGISTRATION NO.: 78402

& \PROJECTS\2015\15009 Thunderbird Rd Sidewalk - Comet to Grand Prix\All Drawings_Details Legend 15009 Thunderbird Rd Sidewalk.dwg. East Legend 605, Nietubicz, Douglas Acad 1-7 Black.ctb

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE PAVEMENT REQUIRING THE CLOSURE OF ONE TRAFFIC LANE, FOR WORK AREAS LESS THAN 200' DOWNSTREAM FROM AN INTERSECTION FOR A PERIOD OF MORE THAN 60 MINUTES.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH ON THE PAVEMENT REQUIRING THE CLOSURE OF ONE TRAFFIC LANE, FOR WORK AREAS 200' OR MORE DOWNSTREAM FROM AN INTERSECTION FOR A PERIOD OF MORE THAN 60 MINUTES.

DURATION NOTES

1. ROAD WORK AHEAD sign may be omitted if all of the following

a. Work operations are 60 minutes or less.

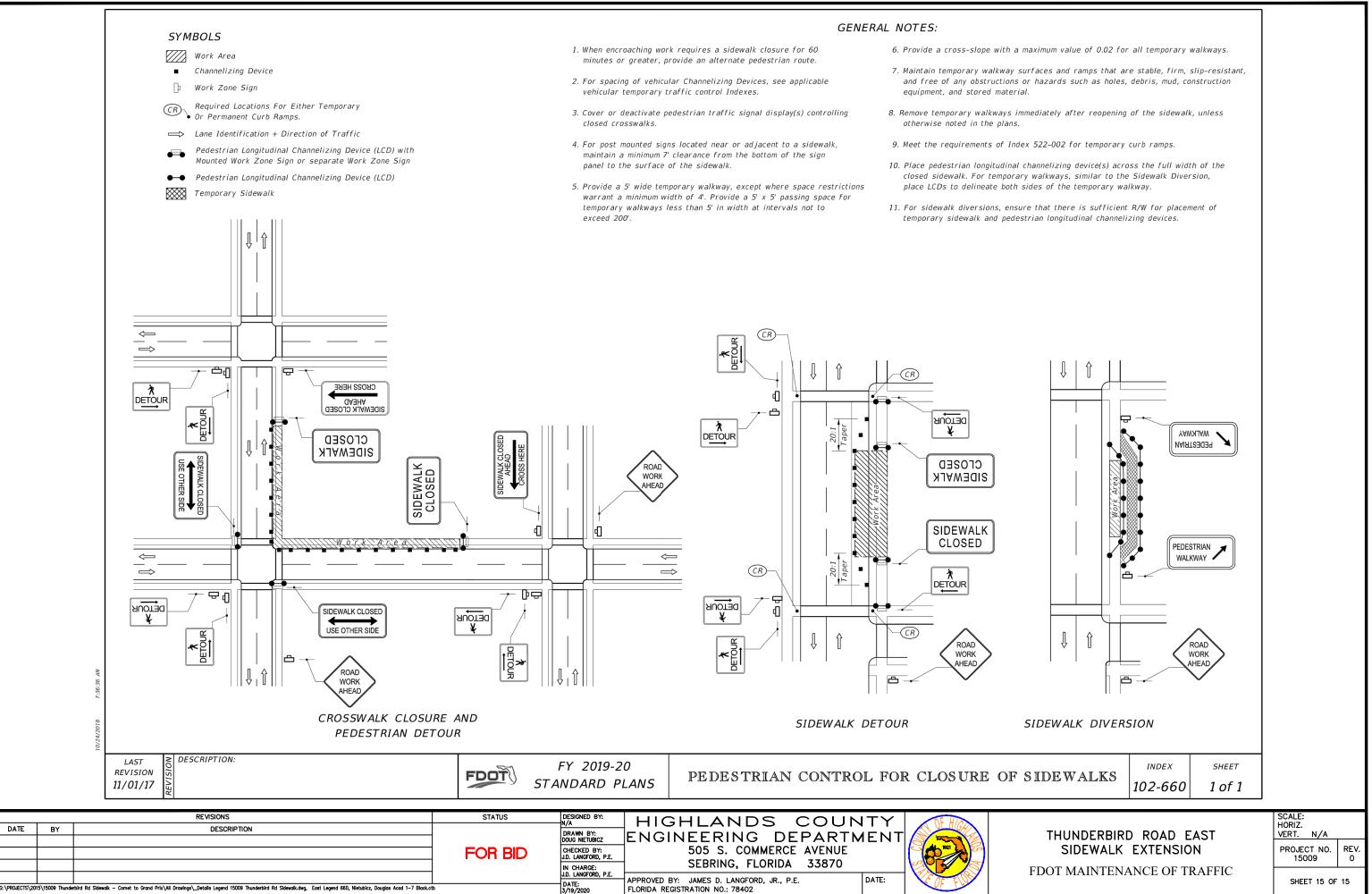
c. No sight obstructions to vehicles approaching the work area for

d. Vehicles in the work area have high-intensity, rotating,

flashing, oscillating, or strobe lights operating.

e. Volume and complexity of the roadway has been considered.

RSECTION	INDEX	SHEET			
	102-605	1 of 1			
THUNDERBIR	H	SCALE: HORIZ. VERT. N/A			
SIDEWALK		PROJECT NO. 15009	REV. 0		
FDOT MAINTENANCE OF TRAFFIC				SHEET 14 OF	15



DATE