

HIGHLANDS COUNTY BOARD OF COUNTY COMMISSIONERS CONSTRUCTION PLANS FOR AVON PARK HEALTH DEPARTMENT SIDEWALK AND PARKING IMPROVEMENTS ADA TRANSITION PLAN HIGHLANDS COUNTY PROJECT NO. 16006

sunshine state
ONE CALL 811
of Florida

DIAL 811
Local No. 1-800-432-4770
Notification # _____
Call 48 hours before you dig.

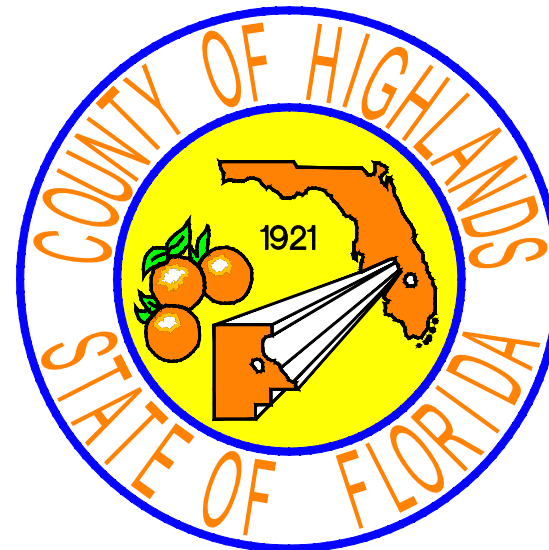
STATE LAW REQUIRES EXCAVATORS TO CALL 811 BEFORE DIGGING PER THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" CHAPTER 556, FLORIDA STATUTES. FAILURE TO CALL CAN RESULT IN FINES FROM \$250 TO \$5,000.

SHEET DESCRIPTION

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3 TABULATION OF QUANTITIES/UTILITIES/LEGEND
- 4-9 DETAILS
- 10 EXISTING CONDITIONS
- 11 PROPOSED IMPROVEMENTS PLAN
- 12 TYPICAL SECTION

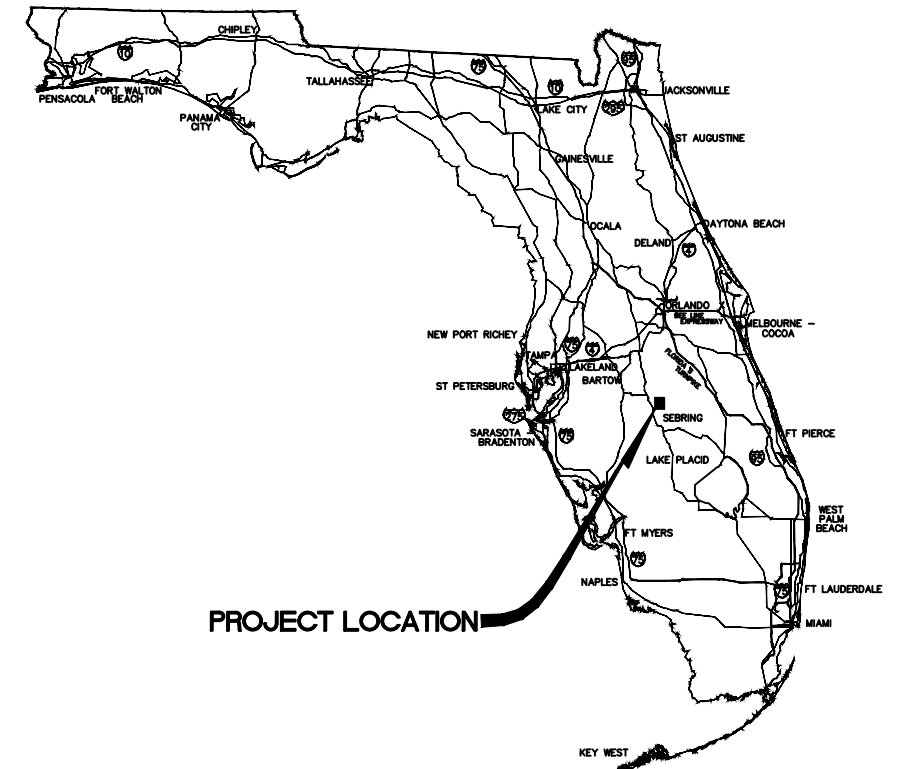


**PROJECT LOCATION MAP
(NOT TO SCALE)**



CLINTON HOWERTON, JR., P.E.,
COUNTY ENGINEER

JAMES DAVID LANGFORD, JR., P.E.
ENGINEER OF RECORD



GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS DATED MAY 2013, AS AMENDED BY CONTRACT DOCUMENTS.

1. FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS DATED 2018/2019, AS AMENDED BY CONTRACT DOCUMENTS.
2. FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2019, AS AMENDED BY CONTRACT DOCUMENTS.

PLANS PREPARED BY HIGHLANDS COUNTY ENGINEERING DEPARTMENT

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

REVISIONS			STATUS	DESIGNED BY: KENYA ANDERSON	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		AVON PARK HEALTH DEPARTMENT SIDEWALK AND PARKING IMPROVEMENTS ADA TRANSITION PLAN COVER SHEET		SCALE:	
DATE	BY	DESCRIPTION							HORIZ.	VERT.
02-08-19	BWD	UPDATED FDOT INDEXES	FOR CONSTRUCTION	DRAWN BY: STACEY MAHONEY	APPROVED BY: JAMES DAVID LANGFORD, JR., P.E. FLORIDA REGISTRATION NO.: 78402		PROJECT NO. 16006		N/A N/A	
				CHECKED BY: KENYA ANDERSON					DATE:	REV. 0
				IN CHARGE: J.D. LANGFORD, P.E.					SHEET 1 OF 12	
				DATE: 6/1/2018						

SURVEY & STAKEOUT NOTES:

- EXISTING SECTION CORNERS AND 1/4 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.
- BENCHMARK DATA IS NORTH AMERICA 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 EXISTING GRADES UNLESS OTHERWISE NOTED.

UTILITY & DRAINAGE NOTES:

- EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS NOTED OTHERWISE.
- THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED BY THE CONTRACTOR 48 HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
- THE CONTRACTOR SHALL CALL 811 FOR FIELD LOCATIONS NO LESS THAN 48 HOURS IN ADVANCE OF DIGGING NEAR UNDERGROUND UTILITIES.
- PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.
- THE EXACT LOCATIONS OF EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. 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.
- ALL VALVES WITHIN AREA OF CONSTRUCTION OR DISTURBED BY CONSTRUCTION TO BE ADJUSTED TO FINISHED GRADE. REPLACE VALVE COLLARS AND BOXES AS NECESSARY.

CLEARING, GRUBBING & LANDSCAPING NOTES:

- CONTRACTOR RESPONSIBLE FOR CLEARING BRUSH & VEGETATION WITHIN PROJECT SITE.
- ALL DISTURBED AREA WITHIN THE RIGHT-OF-WAY AND PROJECT LIMITS SHALL BE SODDED WITH "LIKE KIND" SOD. THE AREAS ON WHICH SOD IS TO BE PLACED SHALL BE 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 ENGINEER PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES, INCLUDING TROPICAL SODA APPLE SHALL BE REJECTED FOR USE ON THIS PROJECT.

MISCELLANEOUS NOTES:

- CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE HIGHLANDS COUNTY ENGINEERING DEPARTMENT PROJECT MANAGER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- EXISTING CONCRETE SIDEWALKS MAY HAVE TO BE ADDED TO OR CUT BACK TO MATCH UP TO PROPOSED PATH IN ORDER TO BETTER MEET ADA STANDARDS.
- THE CONTRACTOR SHALL REMOVE SURVEY STAKES AND EROSION CONTROL ITEMS PRIOR TO THE COMPLETION OF THE CONTRACT.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL CONSTRUCTION PERMITS AND LICENSES. COUNTY SHALL ASSIST CONTRACTOR, WHEN NECESSARY, IN OBTAINING SUCH PERMITS AND LICENSES.
- CONTRACTOR SHALL REPAIR ALL DISTURBED IRRIGATION AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH AFFECTED PROPERTY OWNERS.
- CONTRACTOR SHALL COORDINATE WITH HIGHLANDS COUNTY PROJECT MANAGER IN ORDER TO COMPLY WITH ALL APPLICABLE TESTING STANDARDS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

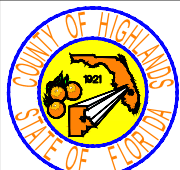
- CONTRACTOR SHALL COORDINATE REPAIRS TO AVON PARK HEALTH DEPARTMENT WITH THE HIGHLANDS COUNTY FACILITIES MANAGEMENT DEPARTMENT.

PAVEMENT MARKINGS AND SIGNAGE NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE TO DELIVER ALL EXISTING SIGNS TO BE REMOVED TO THE HIGHLANDS COUNTY TRAFFIC OPERATIONS DEPARTMENT LOCATED AT 4330 GEORGE BLVD., SEBRING, FL. 33875

SIDEWALK SPECIFICATIONS:

- EXCAVATION:** EXCAVATE TO THE REQUIRED DEPTH, AND COMPACT THE FOUNDATION MATERIAL UPON WHICH THE CONCRETE SIDEWALK IS TO BE PLACED. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF EXCESS MATERIALS.
- COMPACTION:** COMPACT FILL AREAS, INCLUDING CUT AREAS UNDER THE SIDEWALK THAT HAVE BEEN EXCAVATED BELOW THE BOTTOM OF SIDEWALK, TO A MINIMUM OF 95% OF AASHTO T99 DENSITY. THE AREA TO BE COMPACTED IS DEFINED AS THAT AREA DIRECTLY UNDER THE SIDEWALK AND 1 FOOT BEYOND EACH SIDE OF THE SIDEWALK WHEN RIGHT-OF-WAY ALLOWS.
- CONCRETE MATERIALS:** USE PORTLAND CEMENT CONCRETE - CLASS NON STRUCTURAL (NS). THE MINIMUM 28-DAY COMPRESSIVE STRENGTH REQUIREMENT FOR THIS CONCRETE IS 2,500 PSI.
- FORMS**
FORM MATERIALS: CONSTRUCT FORMS FOR THIS WORK OF EITHER WOOD OR METAL. PROVIDE FORMS THAT ARE STRAIGHT, FREE FROM WARP OR BENDS, AND OF SUFFICIENT STRENGTH, WHEN STAKED, TO RESIST THE PRESSURE OF THE CONCRETE WITHOUT DEVIATION FROM LINE AND GRADE. FOR ALL ITEMS CONSTRUCTED ON A RADIUS, USE FLEXIBLE FORMS.
DEPTH OF FORMS: ENSURE THAT FORMS HAVE A DEPTH EQUAL TO THE PLAN DIMENSIONS FOR THE DEPTH OF CONCRETE BEING DEPOSITED AGAINST THEM.
PLACING CONCRETE: PLACE THE CONCRETE IN THE FORMS, AND TAMP AND SPADE IT TO PREVENT HONEYCOMBING, AND UNTIL THE TOP OF THE STRUCTURE CAN BE FLOATED SMOOTH AND THE EDGES ROUNDED TO THE RADIUS OF 1/2 INCH.
- JOINTS**
3/16" SAW CUT JOINTS, 1 1/2" DEEP (WITHIN 96 HOURS) MAX. 5' CENTERS
1/2" EXPANSION JOINT WHEN RUN OF SIDEWALK EXCEEDS 120'. INTERMEDIATE LOCATIONS WHEN CALLED FOR IN THE PLANS OR AT LOCATIONS AS DIRECTED BY THE ENGINEER. EXPANSION JOINTS TO BE ADDED WHERE NEW CONCRETE MEETS EXIST. CONCRETE. FOR CONSISTENCY WITH EXISTING SIDEWALK, THE EDGE OF SIDEWALK SHALL BE PAINTED WITH YELLOW PAINT.
SAW CUT AT EXISTING JOINT, MEET AND MATCH EXISTING SIDEWALK.
- SURFACE REQUIREMENTS:** PROVIDE THE CONCRETE WITH A BROOM FINISH. ENSURE THAT THE SURFACE VARIATIONS ARE NOT MORE THAN 1/4 INCH UNDER A 10 FOOT STRAIGHTEDGE OR MORE THAN 1/8 INCH ON A 5 FOOT TRANSVERSE SECTION. FINISH THE EDGE OF THE SIDEWALK WITH AN EDGING TOOL HAVING A RADIUS OF 1/2 INCH.
- CONCRETE MIX DESIGN:** BEFORE PRODUCING ANY CONCRETE, SUBMIT THE PROPOSED MIX DESIGN TO THE PROJECT MANAGER. THE PROJECT MANAGER MAY DISQUALIFY ANY CONCRETE PRODUCTION FACILITY FOR NON-COMPLIANCE WITH SPECIFICATION REQUIREMENTS.
- GENERAL**
RUNNING SLOPE: THE RUNNING SLOPE OF THE SIDEWALK SHALL NOT EXCEED 5%.
CROSS SLOPE: THE CROSS SLOPE OF SIDEWALK SHALL BE 1.5%, AND NOT EXCEED 2%.
- INSTALLATION OF SIDEWALK SHALL MEET ADA REQUIREMENTS
- GRIND ANY CHANGES IN SURFACE LEVEL TO AN ELEVATION NOT TO EXCEED 1/4".
- CLEAN AND SEAL ANY JOINTS IN SIDEWALK THAT ARE GREATER THAN 1/2" WITH SEALANT. CONTRACTOR SHALL PROVIDE SPECIFICATIONS FOR APPROVAL BY PROJECT MANAGER PRIOR TO INSTALLATION. SEALANT MUST BE SELF-LEVELING, FIT TO GAP AND SEALANT DEPTH MUST BE CONTROLLED WITH BACKER-ROD (CLOSED CELL ONLY)

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UTILITY COMPANIES

City of Avon Park
 Josh Turner
 Superintendent of Utilities
 863-453-3654
 863-453-3626 (F)
 jturner@avonpark.cc





Comcast Cable
 Timothy Hinefelt
 3010 Herring Ave.
 Sebring, FL 33870
 863-273-8556 (C)
 Timothy_Hinefelt@cable.comcast.com

Duke Energy
 Mark R. Manner
 Sr. Engineer (Distribution)
 2051 Old Scenic Highway
 Lake Wales, FL 33898
 863-678-4476
 Mark.Manner@duke-energy.com

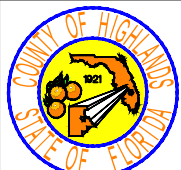
TECO-Peoples Gas System
 Steve Flowers
 2448 US 27 South
 Avon Park, FL 33825
 863-443-8262 (C)
 sflowers@tecoenergy.com

CenturyLink Engineering
 Kenneth R. Lutz
 924 Memorial Dr.
 Avon Park, FL 33825
 863-452-3185
 863-214-1490 (C)
 863-452-3472 (F)
 ken.lutz@centurylink.com

TASK NO.	ITEM DESCRIPTION	QUANTITY	UNIT
1	MOBILIZATION	1	LS
2	BONDS & INSURANCE	1	LS
3	SURVEY STAKING (INCLUDING AS-BUILT)	1	LS
4	MAINTENANCE OF TRAFFIC	1	LS
5	TEMPORARY SEDIMENT BARRIER (SILT FENCE)	200	LF
6	CLEARING AND GRUBBING	1	LS
7	REMOVAL OF EXISTING CONCRETE PAVEMENT	90	SY
8	ASPHALT SEAL COAT	88	SY
9	CONCRETE SIDEWALK (4" THICK)	45	SY
10	CONCRETE SIDEWALK (6" THICK)	53	SY
11	ALUMINUM PIPE GUIDERAIL (INCLUDING MOUNTING HARDWARE)	109	LF
12	SINGLE POST SIGN ASSEMBLY, F&I, (SPECIAL - SMOKE FREE CAMPUS, TOBACCO FREE, NO LOITERING)	1	AS
13	SINGLE POST SIGN, F&I, (SPECIAL - TOBACCO FREE)	1	AS
14	SINGLE POST SIGN, REMOVE	2	AS
15	PAINTED, PAVEMENT MARKING, STANDARD, WHITE MESSAGE, WHEELCHAIR "UNIVERSAL SYMBOL OF ACCESSIBILITY"	2	EA
16	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE SOLID 6"	147	LF
17	PAINTED PAVEMENT MARKINGS, STANDARD, BLUE SOLID 6"	80	LF
18	CONCRETE BUMPER GUARD	3	EA
19	PERFORMANCE SOD (INCL. TOP SOIL & WATER FOR 14 DAYS AT LEAST TWICE A WEEK AFTER INITIAL ESTABLISHMENT)	54	SY

LINE LEGEND	
	EXISTING EDGE OF ASPHALT
	EXISTING EDGE OF CONCRETE
	6" SOLID WHITE STRIPING
	6" SOLID BLUE STRIPING

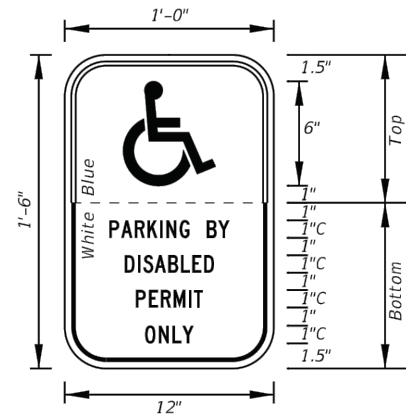
ABBREVIATIONS	
MAX.	MAXIMUM
ELEV.	ELEVATION
EXIST.	EXISTING
PROP.	PROPOSED
TYP.	TYPICAL

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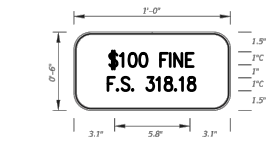
All Letters
1" Series C
1" Spacing
Between Lines
of Text

FTP-20-06
1' X 1'-6"
2" Radii 3/8" Border
1" Series C Legend
Color
Background
Legend and Border

Top Blue
Bottom White
White Black

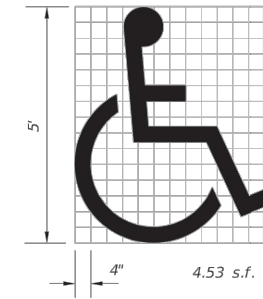


HANDICAP SIGN



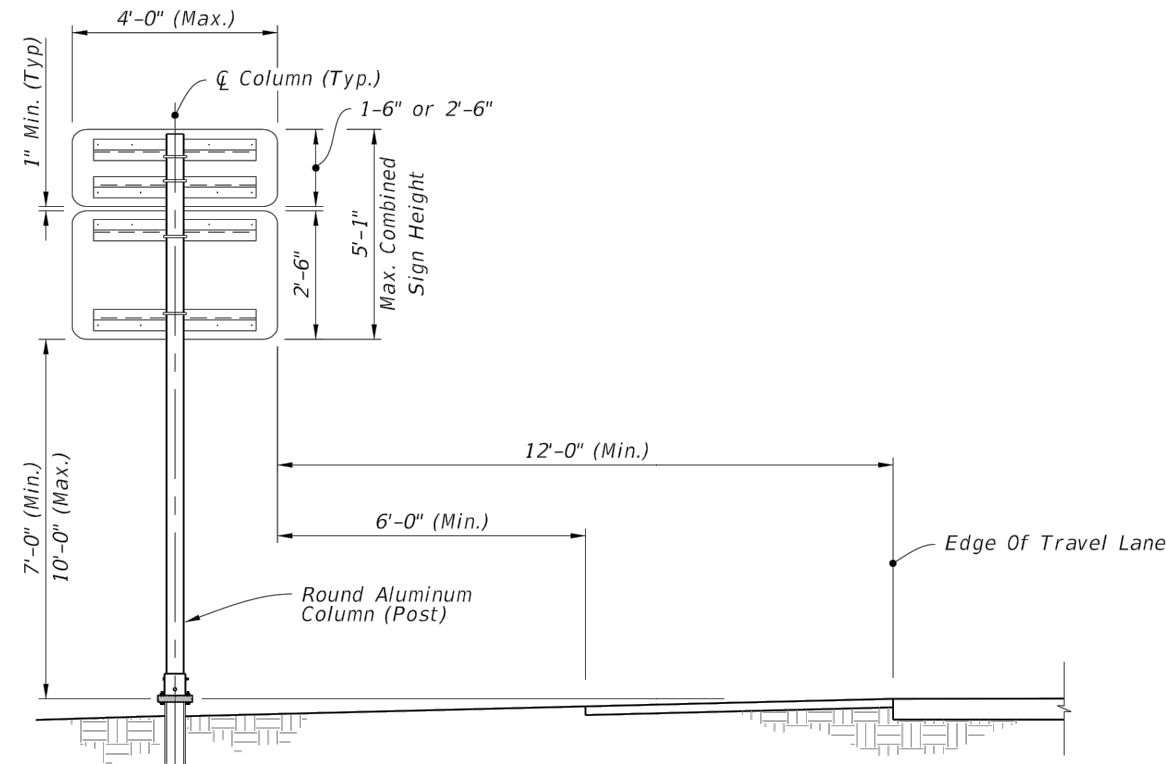
FTP-22-06
1' X 6"
1" Radii 3/8" Border
1" Series C Legend
White Background
Black Legend and Border

Supplemental Panel
For the FTP-20-06
and FTP-21-06 Signs



UNIVERSAL SYMBOL
OF ACCESSIBILITY

FDOT INDEX 17346 Sheet No. 15 of 17



SINGLE COLUMN GROUND SIGN

SINGLE COLUMN GROUND SIGN
FDOT INDEX 700-103 Sheet No. 1 of 1

REVISIONS		
DATE	BY	DESCRIPTION

**FOR
CONSTRUCTION**

DESIGNED BY:
KENYA ANDERSON
DRAWN BY:
STACEY MAHONEY
CHECKED BY:
KENYA ANDERSON
IN CHARGE:
J.D. LANGFORD, P.E.
DATE:
6/1/2018

**HIGHLANDS COUNTY
ENGINEERING DEPARTMENT**
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870



AVON PARK HEALTH DEPARTMENT
SIDEWALK AND PARKING IMPROVEMENTS
ADA TRANSITION PLAN
DETAILS

SCALE: HORIZ. N/A VERT. N/A	PROJECT NO. 16006	REV. 0
SHEET 4 OF 12		

NOTES:

1. Shop Drawings are required.
2. Work with Specification Section 515.
3. Materials:
 - A. Pan Head Set Screws: Aluminum Alloy 2024-74 or 7075-T73 or Stainless Steel (SS) Type 316 or 18-8 Alloy.
 - B. Base Plates and Cap Plates: ASTM B209, Alloy 6061-T6
 - C. Structural Pipe Tube and Bars: ASTM B221 or ASTM B429, Alloy 6061-T6
 - D. End Rails 90° bends and corner bends with a maximum 4 foot spacing: Alloy 6063-T6 is permitted.

RAILING MEMBER DIMENSIONS TABLE			
MEMBER	DESIGNATION	OUTSIDE DIMENSION	WALL THICKNESS
Posts	2" NPS (Sch. 40)	2.375"	0.154"
Rails	2" NPS (Sch. 40)	2.375"	0.154"
Rail Joint/Splice Sleeves	1½" NPS (Sch. 40)	1.900"	0.145"
Handrails Joint/Splice Sleeves	1" NPS (Sch. 40) 1.50 ODX0.125 Wall	1.315" 1.500"	0.133" 0.125"
Handrails	1½" NPS (Sch. 40)	1.900"	0.145"
Handrail Support Bar	1" Ø Round Bar	1.000"	N/A

- E. Galvanized Steel Fasteners:
 - a. Hex Head Bolts: ASTM A 307 Type 1 or ASTM F1554 Grade 36
 - b. Adhesive Anchors: ASTM F1554 Grade 36 fully threaded rods
 - c. Hex Nuts: ASTM A563
 - d. Flat Washers: ASTM F436
- F. Aluminum Shims: ASTM B209, Alloy 6061
- G. Bearing Pads: Plain, Fabric Reinforced, or Fabric Laminated meeting requirements of Specification Sections 515 & 962 for Ancillary Structures.

4. Fabrication:


- A. Place expansion joints at a maximum of 30'-0" spacing
- B. Field splices are similar to the expansion joint detail and may be approved by the Engineer to facilitate handling; but top rail must be continuous across a minimum of two posts.
- C. Continuity field splice (Detail "E"); only use to make the railing continuous for unforeseen field adjustments
- D. Corners and changes in tangential longitudinal alignment may be made continuous with a 9" bend radius or terminated at adjoining sections with a standard end hoop when handrails are not required.
- E. For curved longitudinal alignments, shop bend top and bottom rails and handrails to match the alignment radius.
- F. For changes in tangential longitudinal alignment greater than 45°, position posts a maximum of 2'-0" each side of the corner, not at the corner apex.

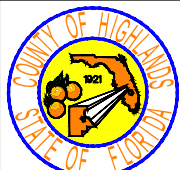
5. Handrails are required and must be continuous at landings for:

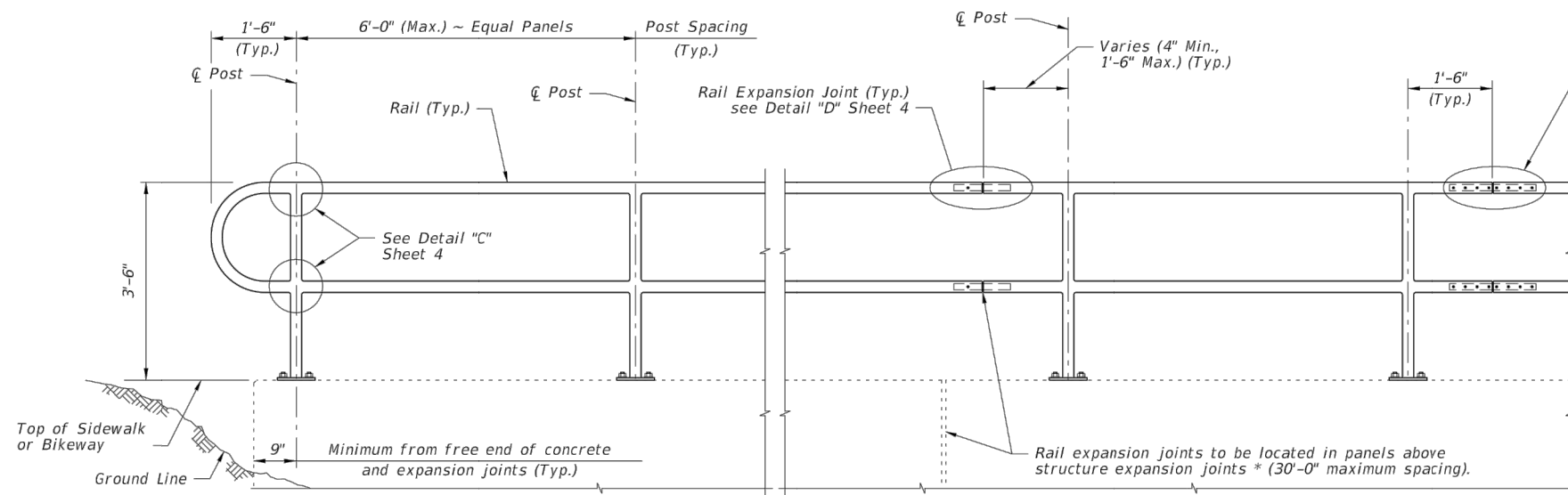
- A. Grades Steeper than 5%
- B. Three or more steps

6. Cutting of reinforcing steel is permitted for post installed anchor bolts.

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LAST REVISION 11/01/17	REVISION	DESCRIPTION:	 FY 2018-19 STANDARD PLANS	PIPE GUIDERAIL (ALUMINUM)	INDEX 515-070	SHEET 1 of 5
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DATE	BY	REVISIONS DESCRIPTION	STATUS	DESIGNED BY: KENYA ANDERSON DRAWN BY: STACEY MAHONEY CHECKED BY: KENYA ANDERSON IN CHARGE: J.D. LANGFORD, P.E. DATE: 6/1/2018	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870 APPROVED BY: JAMES DAVID LANGFORD, JR., P.E. FLORIDA REGISTRATION NO.: 78402		AVON PARK HEALTH DEPARTMENT SIDEWALK AND PARKING IMPROVEMENTS ADA TRANSITION PLAN DETAILS	SCALE: HORIZ. N/A VERT. N/A	PROJECT NO. 16006	REV. 0	SHEET 5 OF 12
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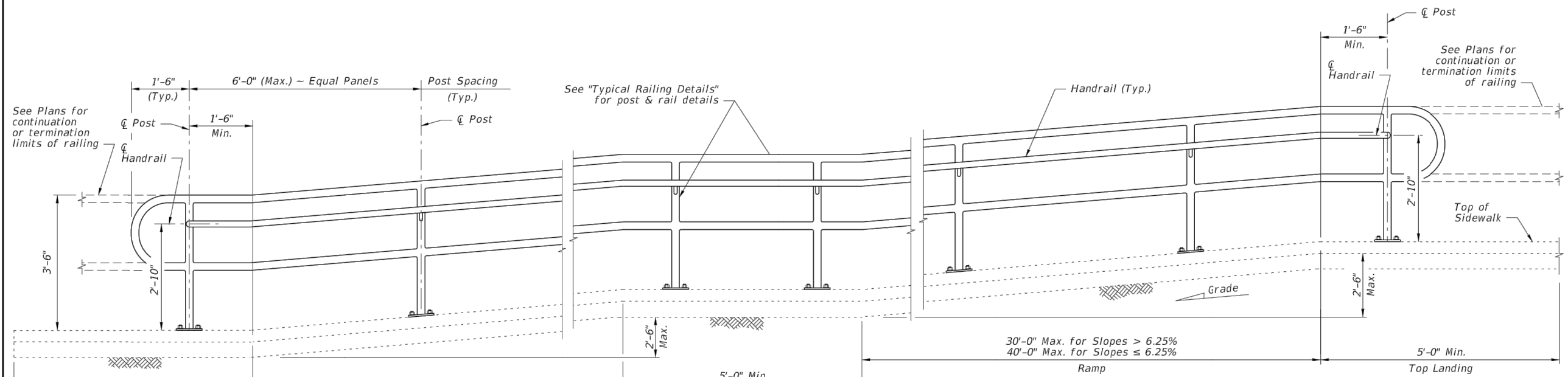
Continuity Field Splice (as required) see Detail "E" Sheet 4 (Typ.)

NOTES:
NPS = Nominal Pipe Size
STRUCTURES EXPANSION JOINTS NOTE:
* Keyed construction joints in Index 400-011 Gravity Wall are not considered to be expansion joints.

CROSS REFERENCE:
For Details "C", "D" and "E", see Sheet 4.

ELEVATION

TYPICAL RAILING DETAILS & RAILINGS ON GRADES 0% TO 5%



RAMP REQUIREMENTS
For slopes greater than 5%:
Max. ramp slope = 8.33%
Max. ramp cross-slope = 2.0%

LANDING REQUIREMENTS
Max. landing slope = 2%
Max. landing cross-slope = 2%

ELEVATION (Showing Inside Face of Railing)

RAILINGS ON GRADES STEEPER THAN 5% TO 8.33%

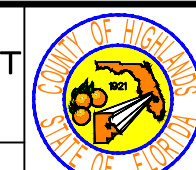
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LAST REVISION 11/01/17	DESCRIPTION:	FDOT	FY 2018-19 STANDARD PLANS	PIPE GUIDERAIL (ALUMINUM)	INDEX 515-070	SHEET 2 of 5
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DATE	BY	DESCRIPTION	STATUS
			FOR CONSTRUCTION

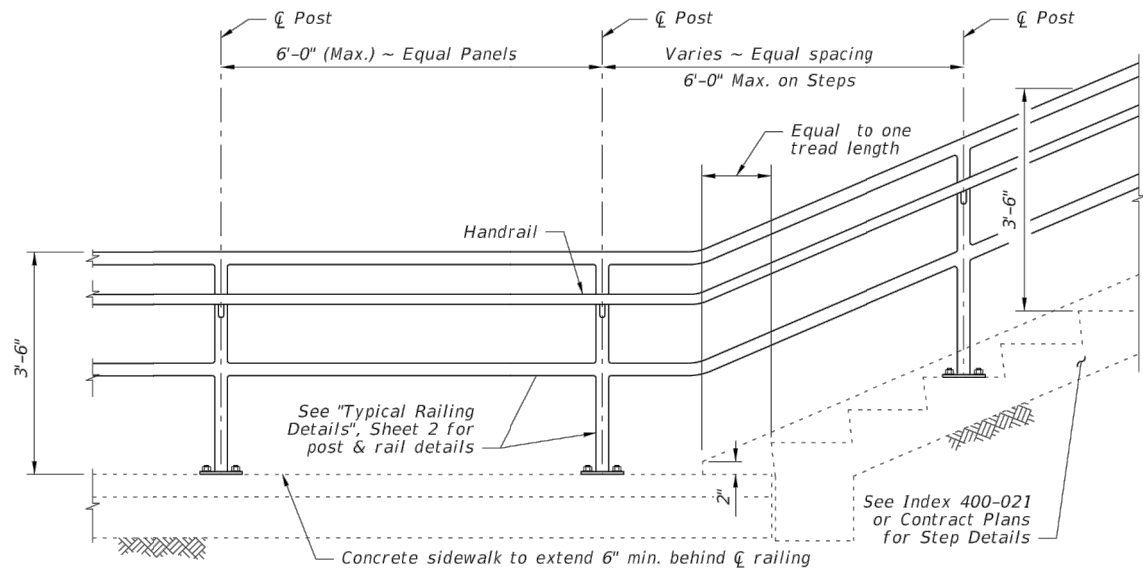
DESIGNED BY:
KENYA ANDERSON
DRAWN BY:
STACEY MAHONEY
CHECKED BY:
KENYA ANDERSON
IN CHARGE:
J.D. LANGFORD, P.E.
DATE:
6/1/2018

HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870
APPROVED BY: JAMES DAVID LANGFORD, JR., P.E.
FLORIDA REGISTRATION NO.: 78402

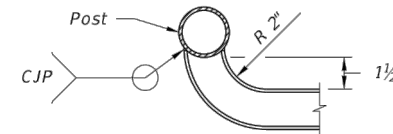


AVON PARK HEALTH DEPARTMENT
SIDEWALK AND PARKING IMPROVEMENTS
ADA TRANSITION PLAN
DETAILS

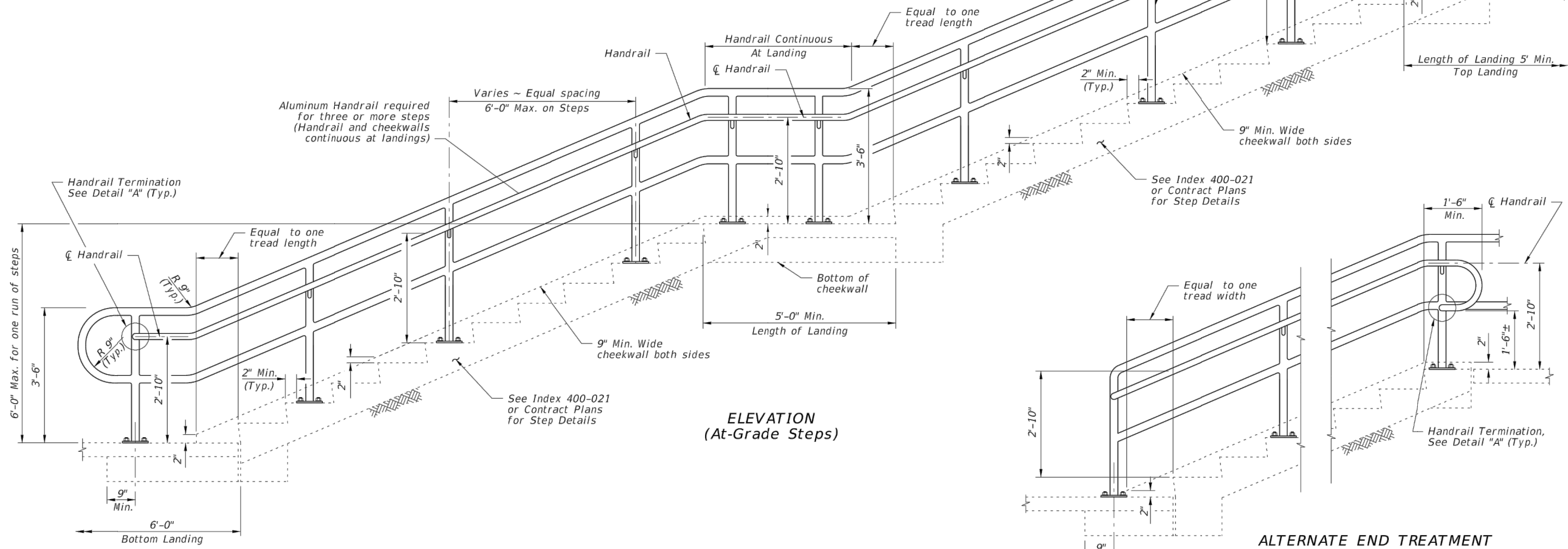
SCALE:
HORIZ. N/A
VERT. N/A
PROJECT NO.
16006
REV.
0
SHEET 6 OF 12



RAILING CONTINUATION BEYOND STEPS
(Bottom shown, Top similar)



DETAIL "A" - PLAN VIEW
HANDRAIL TERMINATION



ELEVATION
(At-Grade Steps)

ALTERNATE END TREATMENT

GUIDERAIL ON STEPS & STAIRS

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LAST REVISION 11/01/17	DESCRIPTION:	FY 2018-19 STANDARD PLANS	PIPE GUIDERAIL (ALUMINUM)	INDEX 515-070	SHEET 3 of 5
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DATE	BY	REVISIONS	DESCRIPTION

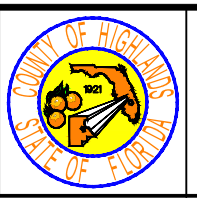
FOR
CONSTRUCTION

HIGHLANDS COUNTY
ENGINEERING DEPARTMENT
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

DESIGNED BY: KENYA ANDERSON
DRAWN BY: STACEY MAHONEY
CHECKED BY: KENYA ANDERSON
IN CHARGE: J.D. LANGFORD, P.E.
DATE: 6/1/2018

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

DATE: _____

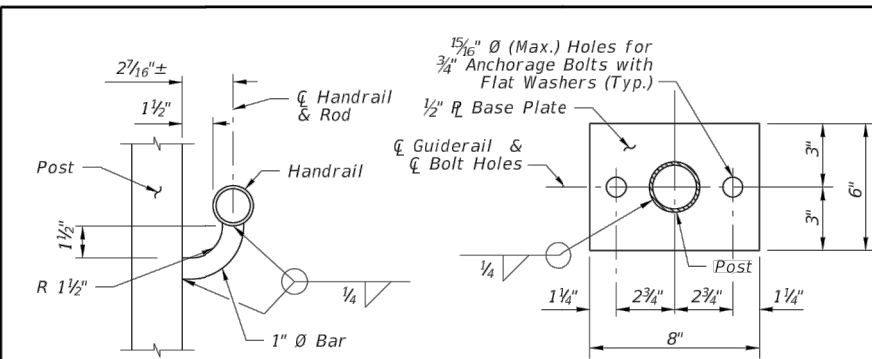


AVON PARK HEALTH DEPARTMENT
SIDEWALK AND PARKING IMPROVEMENTS
ADA TRANSITION PLAN

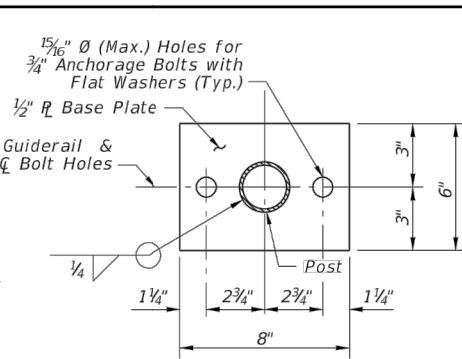
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SCALE: HORIZ. N/A VERT. N/A	PROJECT NO. 16006	REV. 0
SHEET 7 OF 12		

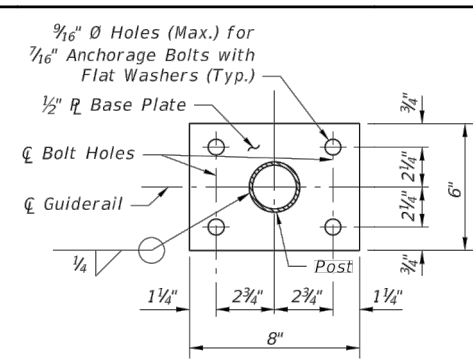
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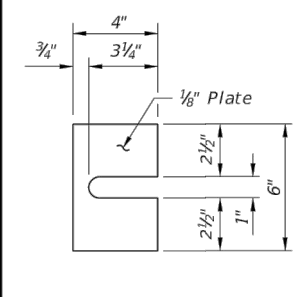
SECTION B-B
(Handrail Connection)



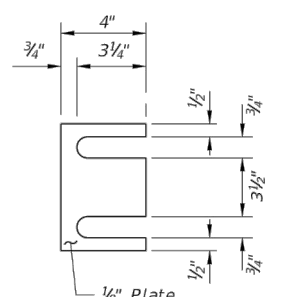
SECTION C-C
BASE PLATE DETAIL
(2-Bolt Anchorage)



SECTION C-C
BASE PLATE DETAIL
(4-Bolt Anchorage)



SHIM PLATE DETAIL
(2-Bolt Anchorage)



SHIM PLATE DETAIL
(4-Bolt Anchorage)

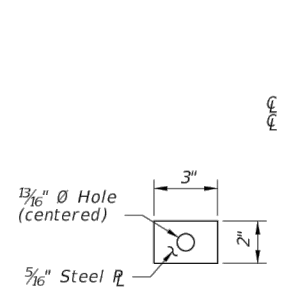
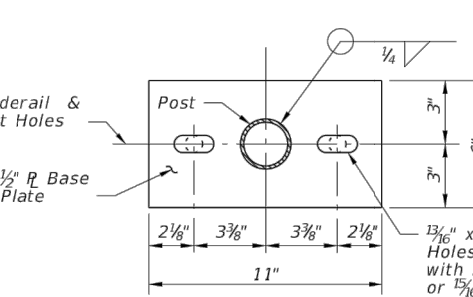
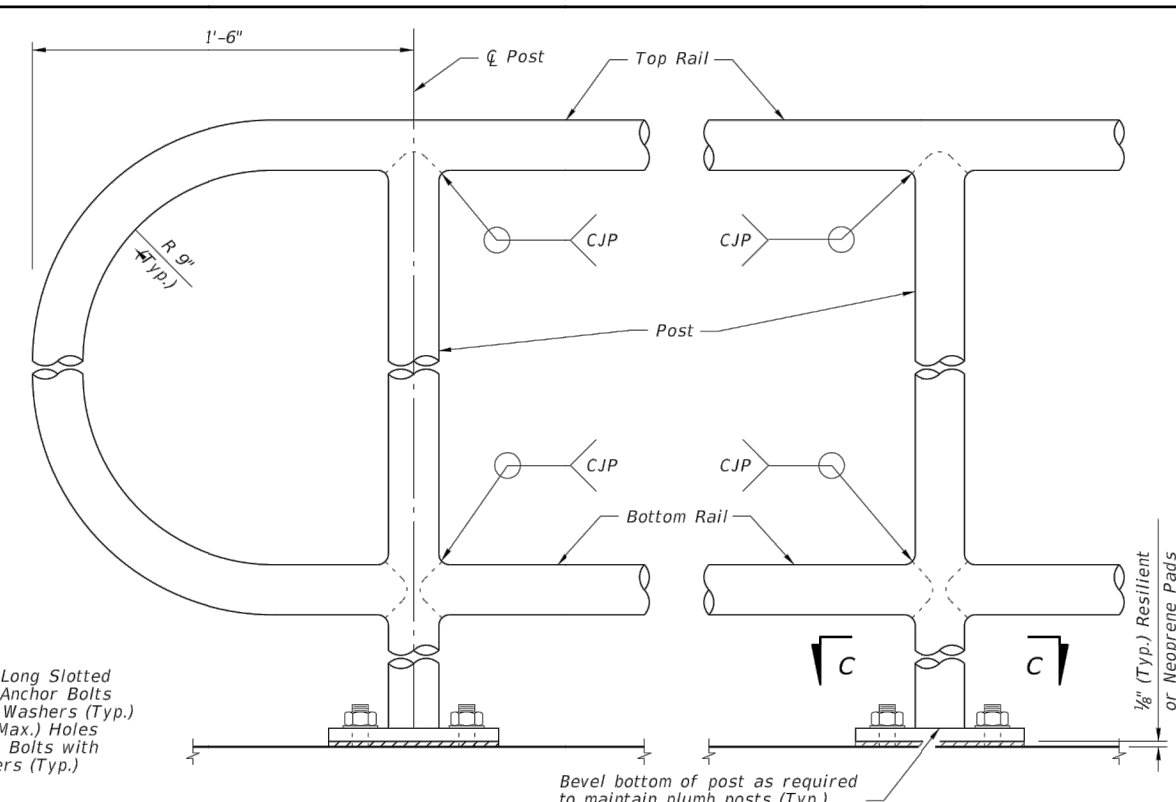


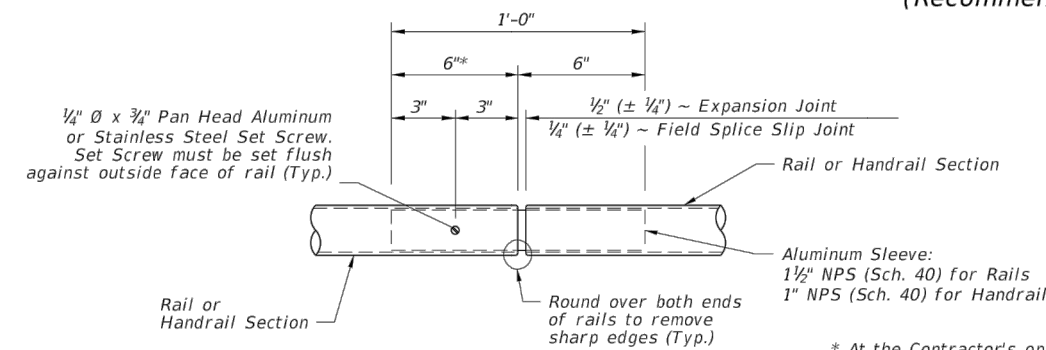
PLATE WASHER
DETAIL



ALTERNATE BASE
PLATE DETAIL
(Recommended for Steep Slopes)

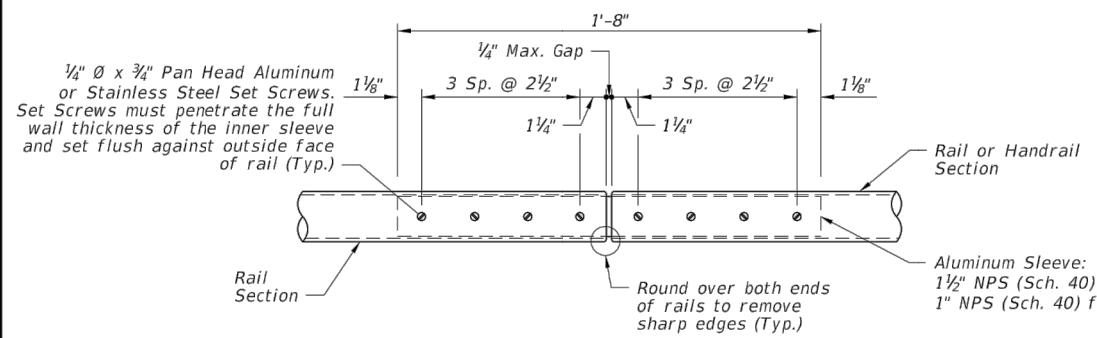


DETAIL "C" - RAIL CONNECTIONS
(Handrail and 4-Bolt Anchorage Not Shown)

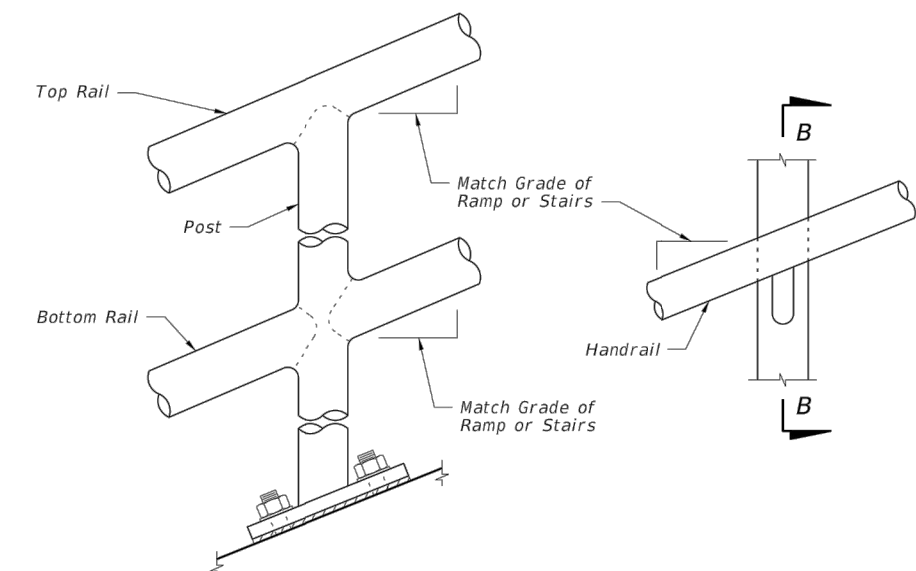


DETAIL "D" - EXPANSION JOINT
(FIELD SPLICE SLIP JOINT SIMILAR)

* At the Contractor's option, embedded length may be 4" when a 3/4" Ø plug weld is substituted for the 1/4" Ø set screw.



DETAIL "E" - CONTINUITY
FIELD SPLICE



DETAIL "B" - RAIL AND HANDRAIL
(Showing Sloped Condition for Ramps with 2-Bolt Anchorage)

CROSS REFERENCE:
For locations of Details "C", "D" and "E", see Sheet 2.

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LAST REVISION	DESCRIPTION:
11/01/17	

**FY 2018-19
STANDARD PLANS**

PIPE GUIDERAIL (ALUMINUM)

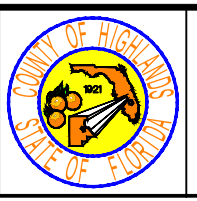
INDEX	SHEET
515-070	4 of 5

REVISIONS		STATUS
DATE	DESCRIPTION	
		FOR CONSTRUCTION

DESIGNED BY: KENYA ANDERSON
 DRAWN BY: STACEY MAHONEY
 CHECKED BY: KENYA ANDERSON
 IN CHARGE: J.D. LANGFORD, P.E.
 DATE: 6/1/2018

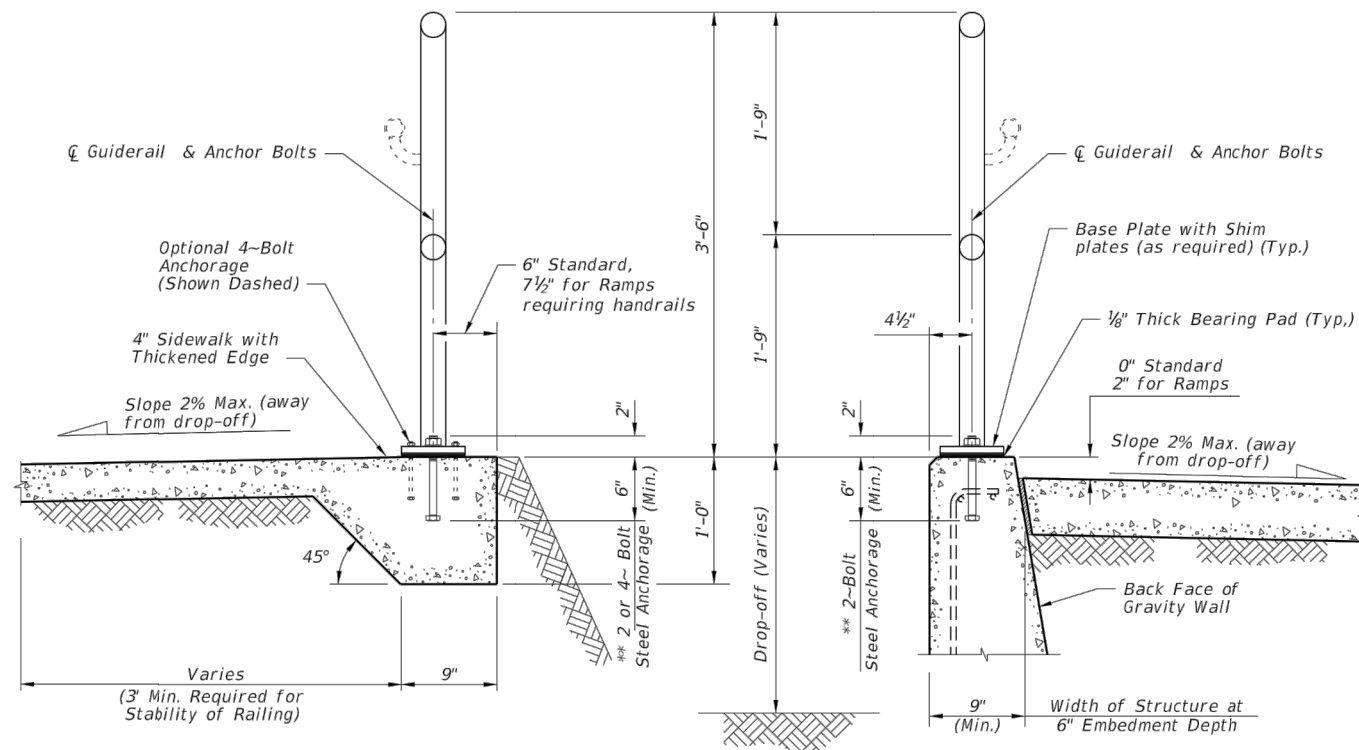
**HIGHLANDS COUNTY
ENGINEERING DEPARTMENT**
 505 S. COMMERCE AVENUE
 SEBRING, FLORIDA 33870

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

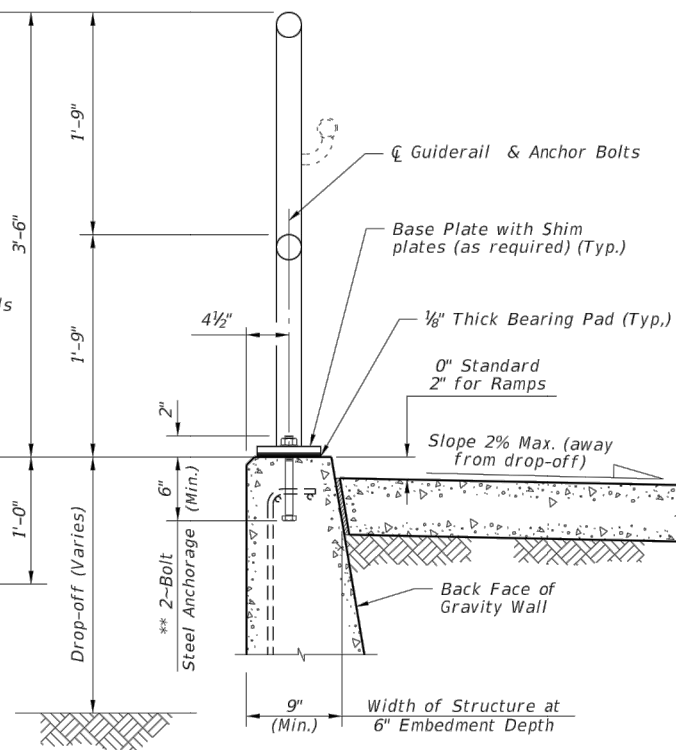


**AVON PARK HEALTH DEPARTMENT
SIDEWALK AND PARKING IMPROVEMENTS
ADA TRANSITION PLAN**
 DETAILS

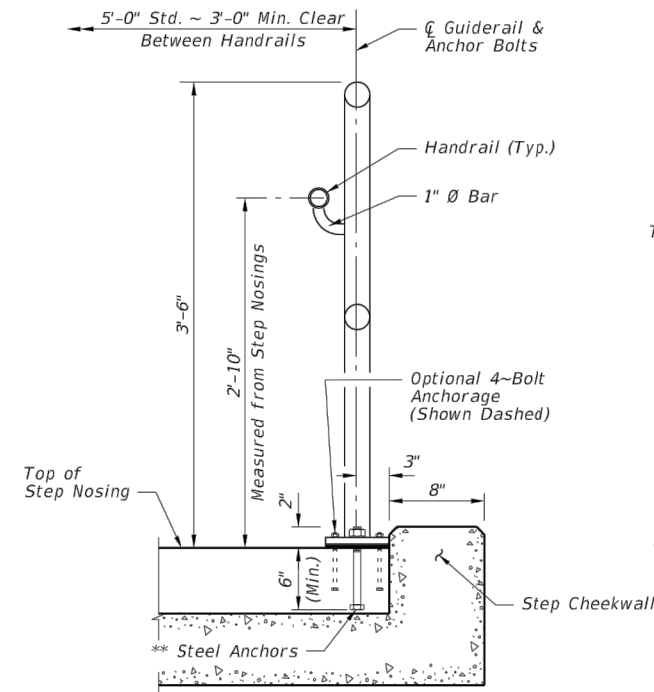
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PROJECT NO. 16006	REV. 0
SHEET 8 OF 12	



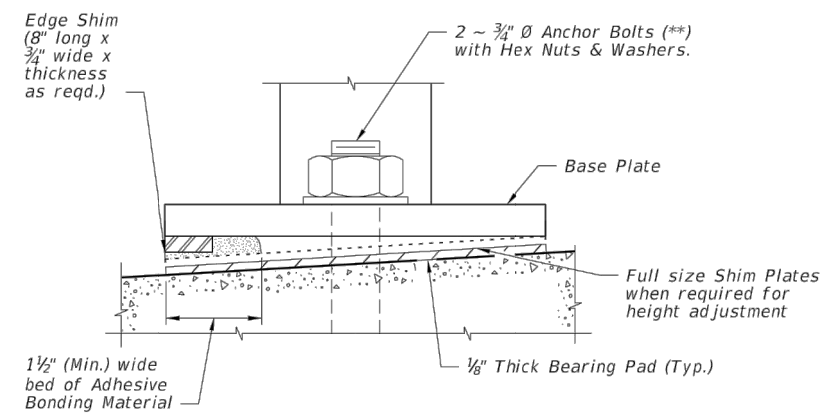
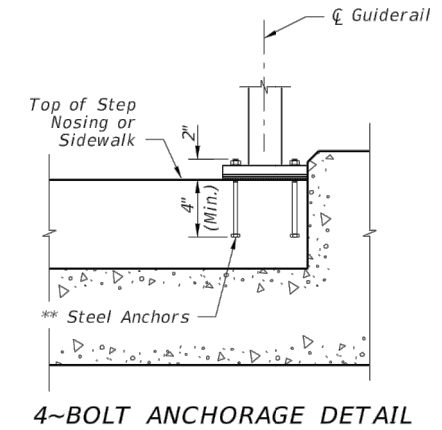
TYPICAL SECTION ON CONCRETE SIDEWALK



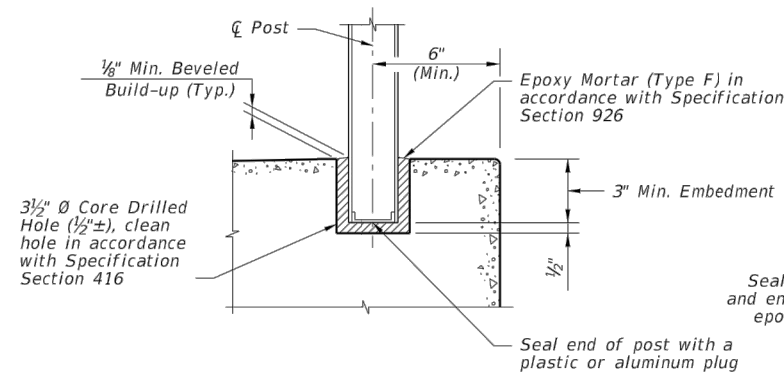
TYPICAL SECTION ON GRAVITY WALL (Other Retaining Walls Similar)



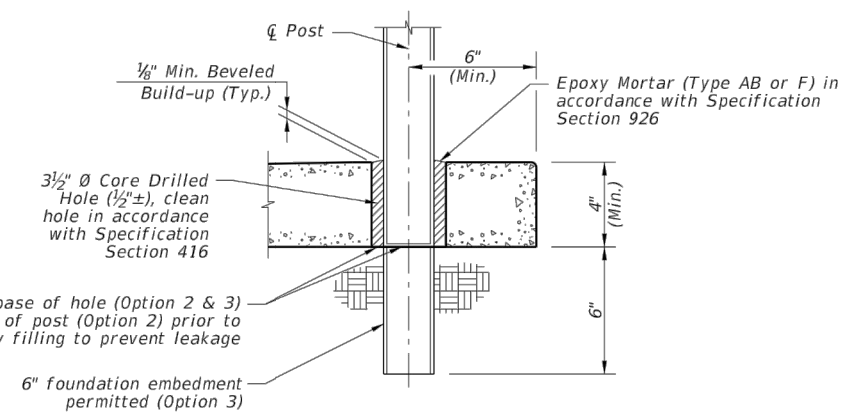
TYPICAL SECTION ON STEPS & STAIRS



DETAIL "F" (OPTIONAL SHIMMING DETAIL FOR CROSS SLOPE CORRECTION) (Used in lieu of Beveled Shim Plates)



SIDEWALK ANCHORAGE DETAIL OPTION 1

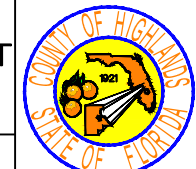


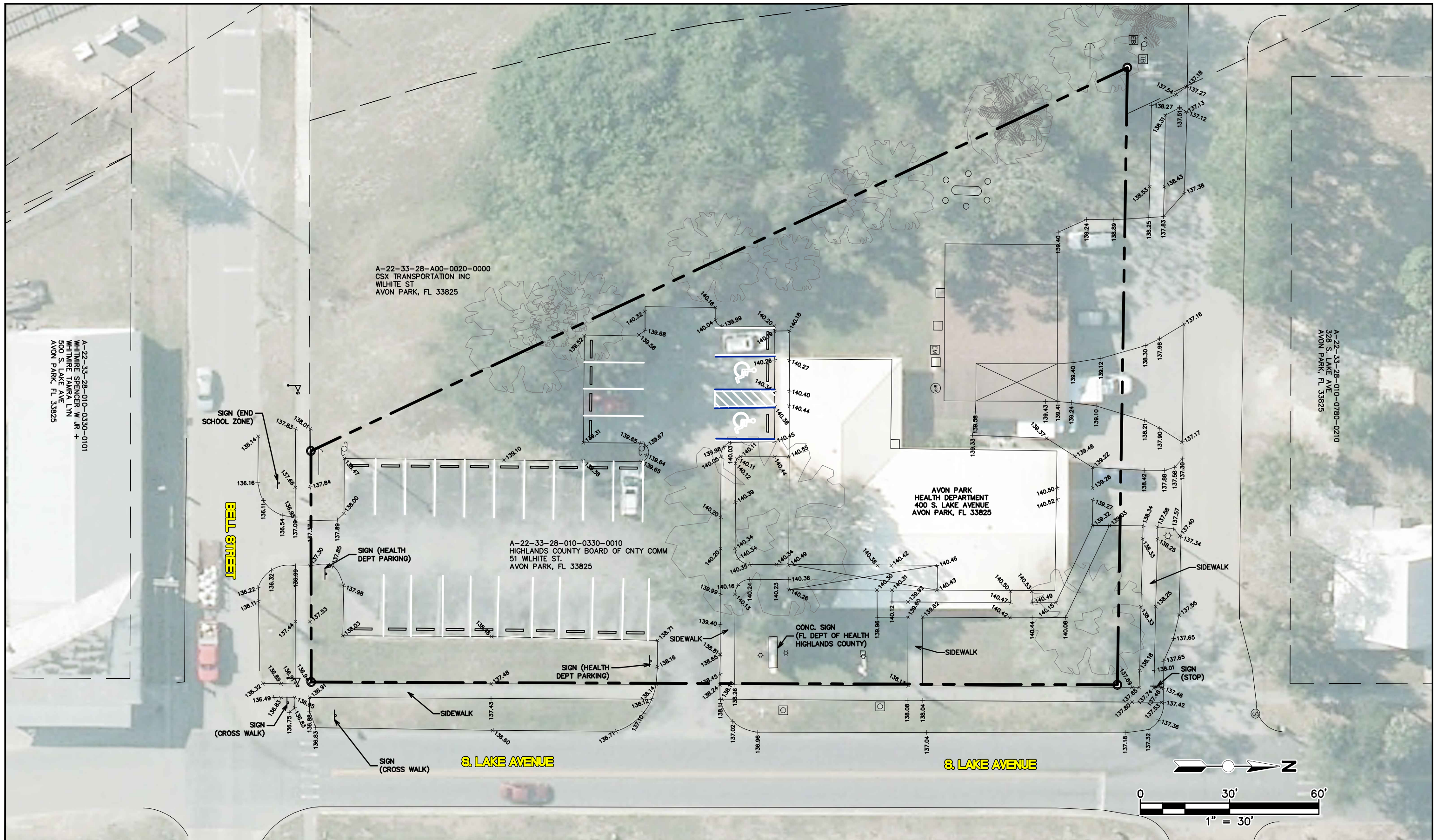
SIDEWALK ANCHORAGE DETAIL OPTION 2 & 3

NOTES:
 ** 2 ~ 3/4" \varnothing x 8" or 4 ~ 7/16" \varnothing x 6" Steel Anchors: Galvanized Steel Bolts (As Shown) (C-I-P); Galvanized U-Bolts Permitted (C-I-P); Galvanized Adhesive Anchors Permitted
 *** The minimum embedment for Adhesive Anchors is 6" for 2-Bolt Anchorage or 4" for 4-Bolt Anchorage.

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LAST REVISION 11/01/17	DESCRIPTION:	FDOT	FY 2018-19 STANDARD PLANS	PIPE GUIDERAIL (ALUMINUM)	INDEX 515-070	SHEET 5 of 5
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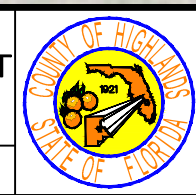
DATE	BY	REVISIONS DESCRIPTION	STATUS FOR CONSTRUCTION	DESIGNED BY: KENYA ANDERSON	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		AVON PARK HEALTH DEPARTMENT SIDEWALK AND PARKING IMPROVEMENTS ADA TRANSITION PLAN DETAILS	SCALE: HORIZ. N/A VERT. N/A	
				DRAWN BY: STACEY MAHONEY				PROJECT NO. 16006	REV. 0
				CHECKED BY: KENYA ANDERSON					
				IN CHARGE: J.D. LANGFORD, P.E.					
				DATE: 6/1/2018	APPROVED BY: JAMES DAVID LANGFORD, JR., P.E. FLORIDA REGISTRATION NO.: 78402	DATE:	SHEET 9 OF 11		



REVISIONS		
DATE	BY	DESCRIPTION

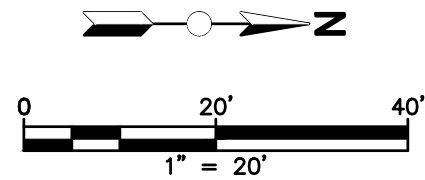
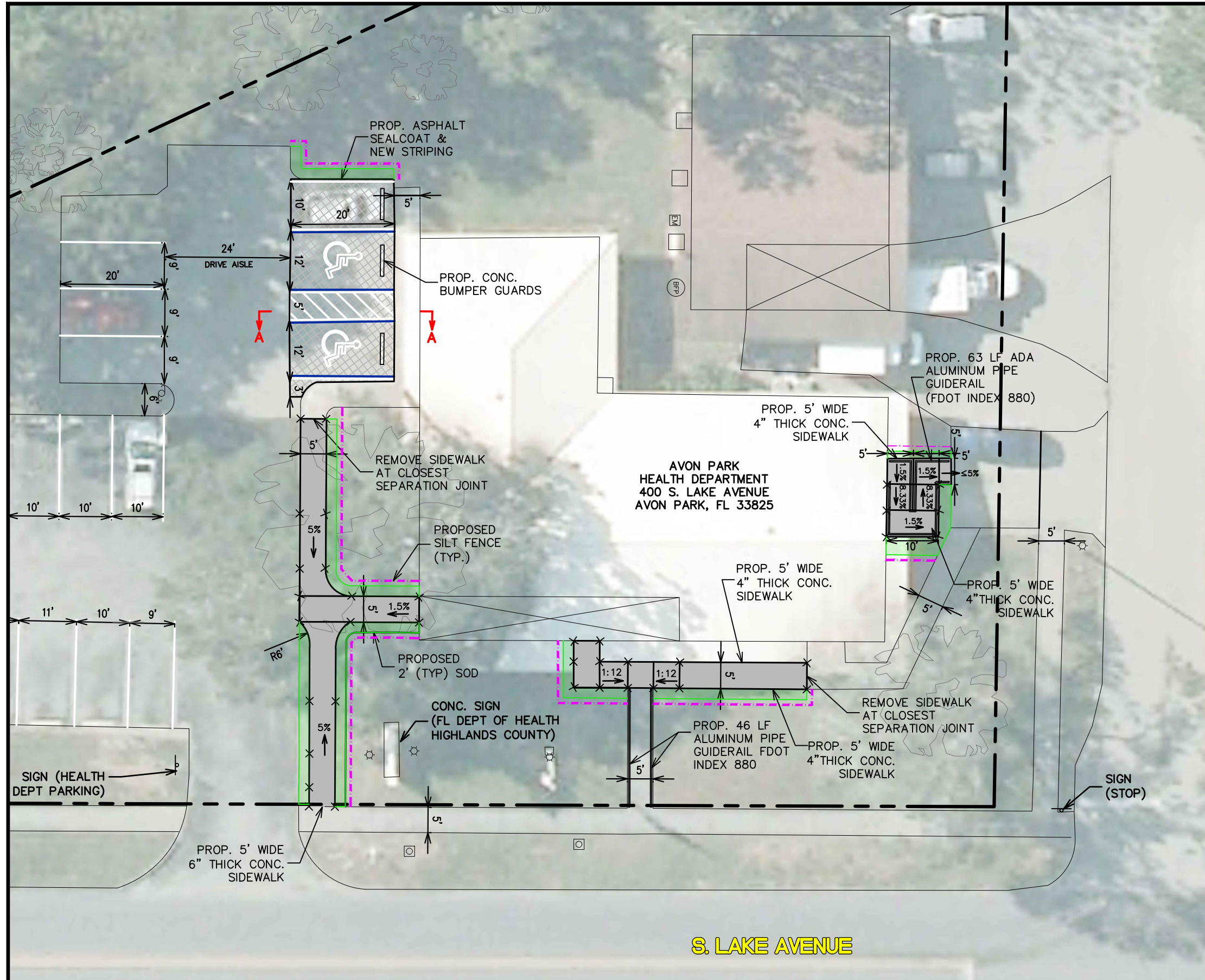
**FOR
CONSTRUCTION**

**HIGHLANDS COUNTY
ENGINEERING DEPARTMENT**
505 S. COMMERCE AVENUE
SEBRING, FLORIDA 33870

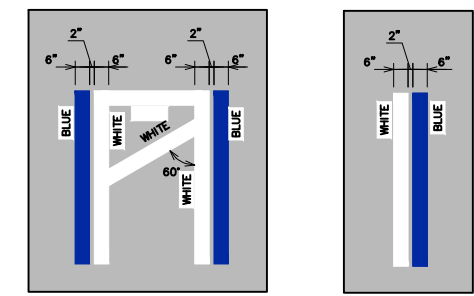


**AVON PARK HEALTH DEPARTMENT
SIDEWALK AND PARKING IMPROVEMENTS
ADA TRANSITION PLAN
EXISTING CONDITIONS**

SCALE: HORIZ. 1"=30' VERT. N/A	
PROJECT NO. 16006	REV. 0
SHEET 10 OF 12	



- EXISTING TO REMAIN
- EXISTING CONCRETE SIDEWALK TO BE REMOVED AND RECONSTRUCTED
- ASPHALT SEAL AND COAT AREA
- AREA TO BE SODDED
- PROPOSED ELEVATIONS



HANDICAP STRIPING DETAIL (N.T.S.)

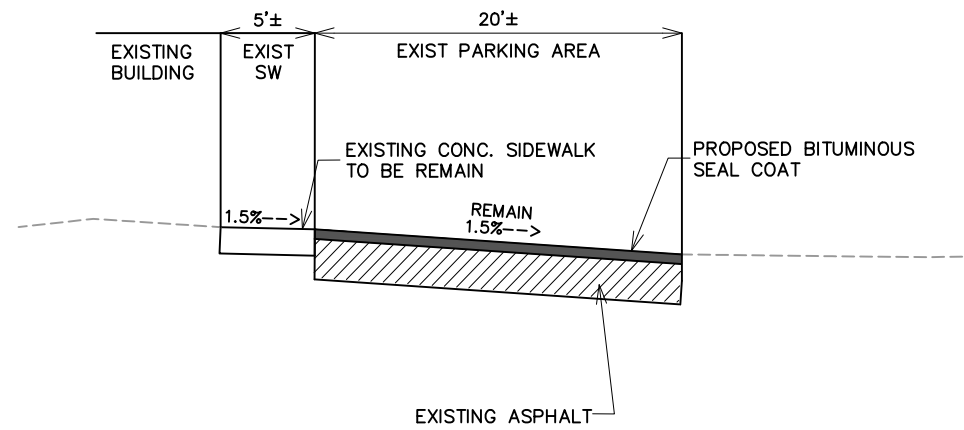
NOTES:

1. SIGN HEIGHTS SHALL BE A MINIMUM OF 7' TO A MAXIMUM OF 8' AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE EDGE OF PAVEMENT.
2. ASPHALT SEAL COAT REQUIRED IN AREAS WHERE EXIST. STRIPING PATTERN CHANGES.
3. EXISTING STRIPING WILL BE REFRESHED IN SAME LOCATION UNLESS OTHERWISE SHOWN.
4. EXISTING SIGNAGE TO REMAIN UNLESS OTHERWISE SHOWN.

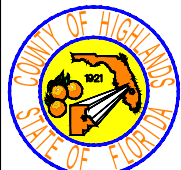
S. LAKE AVENUE

REVISIONS			STATUS		HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870			AVON PARK HEALTH DEPARTMENT SIDEWALK AND PARKING IMPROVEMENTS ADA TRANSITION PLAN PROPOSED IMPROVEMENTS PLAN	
DATE	BY	DESCRIPTION	FOR CONSTRUCTION					SCALE: HORIZ. 1"=20' VERT. N/A	PROJECT NO. 16006
					DESIGNED BY: KENYA ANDERSON	APPROVED BY: JAMES DAVID LANGFORD, JR., P.E. FLORIDA REGISTRATION NO.: 78402	DATE: 6/1/2018	SHEET 11 OF 12	
					DRAWN BY: STACEY MAHONEY				
					CHECKED BY: KENYA ANDERSON				
					IN CHARGE: J.D. LANGFORD, P.E.				
					DATE: 6/1/2018				

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SECTION A-A
PROPOSED SEAL COAT AREA

REVISIONS			STATUS	DESIGNED BY: KENYA ANDERSON	HIGHLANDS COUNTY ENGINEERING DEPARTMENT 505 S. COMMERCE AVENUE SEBRING, FLORIDA 33870		AVON PARK HEALTH DEPARTMENT SIDEWALK AND PARKING IMPROVEMENTS ADA TRANSITION PLAN		SCALE: HORIZ. N/A VERT. N/A
DATE	BY	DESCRIPTION					FOR CONSTRUCTION	CHECKED BY: KENYA ANDERSON	APPROVED BY: JAMES DAVID LANGFORD, JR., P.E. FLORIDA REGISTRATION NO.: 78402
				IN CHARGE: J.D. LANGFORD, P.E.					
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