

HIGHLANDS COUNTY BOARD OF COUNTY COMMISSIONERS  
CONSTRUCTION PLAN

FOR:

HIGHLANDS PARK ESTATES  
SPECIAL BENEFIT DISTRICT  
CLUBHOUSE BUILDING

HIGHLANDS COUNTY PROJECT NO. 12056



SUMMARY OF QUANTITIES:

ITEM#	ITEM DESCRIPTION	UNIT	QUANTITY
1	Construction (Surveying) Layout & Record Drawings	LS	1
2	Mobilization	LS	1
3	Earthwork (ditch & walk grading)	LS	1
4	Erosion Control (Staked Turbidity Barrier)	LF	520
5	Tree Trimming	LS	1
6	Septic System	LS	1
7	Sub-Base Material 8" Compacted Thickness	SY	296
8	Base Material 6" Compacted Thickness	SY	296
9	Concrete Sidewalk 4" Thick - 6' Width (Thickened Edge)	LF	155
10	Sod and Restoration (Performance Turf sod)	SY	1,790
11	Pump & Tank relocation (Well)	LS	1
12	Demo & Haul Away Existing Building	LS	1
13	Material Testing	LS	1
14	Remove 38" Oak Tree & Grind Stump	LS	1
15	Valley Curb	LF	20
16	Pavement Markings	LS	1
17	Conc. Curb Stop (Where shown, painted yellow)	EA	7
18	Handicap Signage	EA	1
<b>County R&amp;B Parking Lot Portion</b>			
A	Sub-Base Material 8" Compacted Thickness	SY	202
B	Base Material 6" Compacted Thickness	SY	202
C	1.5" Type 9.5 Asphalt (RAP 30% MAX)	SY	202
D	Remove Existing Asphalt & Replace with Clean fill	SY	26

GOVERNING STANDARDS AND SPECIFICATIONS:

- FLORIDA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS DATED 2013, AS AMENDED BY CONTRACT DOCUMENTS.
- FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS DATED 2017-2018, AS AMENDED BY CONTRACT DOCUMENTS.
- FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2017, AS AMENDED BY CONTRACT DOCUMENTS.

TESTING:

- TESTING IS REQUIRED ON ALL DRIVEWAY CONSTRUCTION MATERIALS PLACED IN THE COUNTY RIGHT-OF-WAY. NO ASBUILT PLANS WILL BE ISSUED UNTIL CERTIFIED TEST REPORTS FROM THE TESTING LAB SHOW THAT THE SPECIFICATIONS HAVE BEEN MET OR EXCEEDED.
- THE MATERIALS PLACED ON PRIVATE PROPERTY IN THE LOT SHALL ALSO BE TESTED TO SEE IF THE SPECIFICATIONS HAVE BEEN MET. TEST SHALL BE PERFORMED AT RANDOM LOCATIONS SPECIFIED BY THE ENGINEER AT THE RATE OF 1 TEST PER 4000 SQUARE FEET OF VEHICULAR SURFACE AREA. ANY FRACTIONS IN THE CALCULATION OF THE NUMBER OF TEST SHALL ALWAYS BE ROUNDED UP TO THE NEXT WHOLE NUMBER.
- NO ASBUILT WILL BE ISSUED UNTIL CERTIFIED TEST REPORTS FROM THE TESTING LAB SHOW THAT THE SPECIFICATIONS HAVE BEEN MET OR EXCEEDED OR UNLESS THERE IS WRITTEN AUTHORIZATION FROM THE OWNER TO THE ENGINEER ALLOWING THE OMITTING OF THE TESTING ON PRIVATE PROPERTY.
- TEST RESULTS FOR ALL PAVEMENT WILL NEED TO BE SUBMITTED TO THE COUNTY ENGINEERING DEPARTMENT.
- ALL TESTING TO BE PROVIDED BY THE CONTRACTOR.
- SEE DETAILS FOR MINIMUM MATERIAL THICKNESS & COMPACTIONS.

POND AND SWALE CONSTRUCTION AND MAINTENANCE INSTRUCTIONS:

- ROUGH SIZING AND GRADING OF THE POND AND SWALES SHOULD BE MADE FIRST TO PROVIDE IMMEDIATE SEDIMENTATION AREA FOR STORMWATER RUNOFF FROM THE CONSTRUCTION AREA.
- DURING THE CONSTRUCTION PHASE CARE SHOULD BE TAKEN TO KEEP POND AREA AS FREE AS POSSIBLE OF ANY SEALANTS SUCH AS ASPHALT, SHELL, CONCRETE, MUCK, ETC. WHICH MAY SEAL THE POND BOTTOM AND REDUCE THE PERCOLATION RATE.
- SOD GROWN ON MUCK SHOULD NOT BE USED.
- POND BOTTOM SHOULD BE MADE AS ONE OF THE FINAL STEPS OF CONSTRUCTION.
- ROUTINE MOWING AND INSPECTION OF SWALES AND POND.
- REPAIR ANY EROSION DAMAGE FOUND.
- PERIODICALLY SWALES AND/OR POND MAY REQUIRE CLEANING OF SEDIMENTS IN ORDER TO MAINTAIN PERCOLATION VALUES. THIS COULD INCLUDE THE REMAKING OF THE POND BOTTOM.

THERE ARE NO KNOWN FLOODPLAINS, WETLANDS, XERIC UPLANDS, HISTORICAL AND ARCHAEOLOGICAL RESOURCES, CONES OF INFLUENCE FOR POTABLE WELLS, OR AQUIFER RECHARGE AREAS WITHIN THIS PROJECT UNLESS NOTED AND SHOWN. CUTTHROAT SEEP IS LISTED ON THE COUNTY NATURAL RESOURCES MAP, BUT THIS AREA HAS BEEN CLEARED AND MAINTAINED FOR A NUMBER OF YEARS.

-NO PROPOSED LIGHTING PLAN AT THIS TIME

-NO WELLHEADS SUPPLYING PUBLIC POTABLE WATER WITHIN 600 FEET OF THE PROJECT. UNLESS OTHERWISE SHOWN.

-SEASONAL HIGH WATER TABLE IS APPROXIMATELY 43.20 N.A.V.D.

-ALL ELEVATIONS SHOWN ARE BASED ON N.A.V.D. 88 (ACCORDING TO THE SURVEY).

-LAKE (STAPOGA) 100 YEAR FLOOD ELEVATION IS AT 40.58 FEET N.A.V.D. 88 ( 29 TO 88 CONVERSION IS -1.122 FT)

-TRAFFIC FLOW ARROWS NOT TO BE PAINTED UNLESS OWNER REQUESTS.

-NO EXPECTED IMPACT ON GROUNDWATER QUALITY.

-NO PORTION OF THE PROJECT AREA IS WITHIN THE 100 YEAR FLOOD PLAIN.

-THE APPLICANT WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF ALL OPEN SPACES ON SITE, INCLUDING THE STORMWATER TREATMENT SYSTEM AND POND.

-AREAS NOT USED AS PARKING MAY BE USED AS OPEN SPACE OR RECREATION AREAS.

-IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE INSTALLATION OF UTILITIES SO AS TO REDUCE THE IMPACT TO ALL FACILITIES.

-THERE ARE NO EXISTING BUILDINGS, CULVERTS, EASEMENTS, BOUNDARIES OF INCORPORATED AREAS, LAKES, STREETS, WATER COURSES OR WATER MAINS EXCEPT AS SHOWN OR NOTED. ALL LOTS MEET THE MINIMUM SQUARE FOOTAGE AND ROAD FRONTAGE ALLOWED BY THE CURRENT ZONING CLASSIFICATION.

-UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN ON THIS PLAN. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.

-THIS PROJECT WILL BE PERMITTED UNDER 62-330.020 F.A.C. (2)(c)& (2)(b) HAVING LESS THAN 4,000 SQUARE FEET OF IMPERVIOUS & SEMI-IMPERVIOUS SURFACE AREA SUBJECT TO VEHICULAR TRAFFIC AND LESS THAN 9,000 SQUARE FEET OF IMPERVIOUS AND SEMI-IMPERVIOUS SURFACE AREA.

"I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT IS IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS ESTABLISHED BY THE 2013 EDITION OF MANUAL OF UNIFORM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE OF STREETS AND HIGHWAYS, AS REQUIRED BY FLORIDA STATUTES 336.045."

"I HEREBY CERTIFY THAT THE DETAILS OF THE HANDICAP ACCESSIBILITY PLAN SHOWN HEREON ARE TO THE BEST OF MY KNOWLEDGE AND BELIEF IN FULL AND COMPLETE COMPLIANCE WITH THE STATE OF FLORIDA DEPARTMENT OF COMMUNITY AFFAIRS HANDICAP ACCESSIBILITY RULE."

ABBREVIATIONS		SYMBOLS	
CL	CENTER LINE	144	EXISTING OR PROPOSED GRADE
EOP	EDGE OF PAVEMENT	X ELEV.00	SOIL BORING LOCATION
RW	RIGHT-OF-WAY	97.80P	PROPOSED STOP SIGN
SIR	SET IRON ROD	(S)	STREET LIGHT
FIR	FOUND IRON ROD	(S)	PROPOSED SIGN
SCM	SET CONCRETE MONUMENT	(S)	WATER VALVE
U&D	UTILITY AND DRAINAGE EASEMENT	(S)	EXISTING POWER POLE
RCP	REINFORCED CONCRETE PIPE	(S)	HYDRANT
HDPE	HIGH DENSITY POLYETHYLENE PIPE	(S)	PROPOSED GRADE LINE
T.E.	TOP ELEVATION	(S)	EXISTING & PROPOSED SANITARY SEWER LINE
I.E.	INVERT ELEVATION	(S)	EXISTING & PROPOSED WATER LINE
TOS	TOE OF SLOPE	(S)	TRAFFIC FLOW ARROW
FF	FINISHED FLOOR	(S)	SILT SCREEN
SHWL	SEASONAL HIGH WATER LEVEL	(S)	WELL
CLS	CENTER LINE OF SWALE	(S)	

LEGAL DESCRIPTION:

TRACT:  
TRACT "C", HIGHLANDS PARK ESTATES, SECTION F, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 4, AT PAGE 95 OF THE PUBLIC RECORDS OF HIGHLANDS COUNTY, FLORIDA.

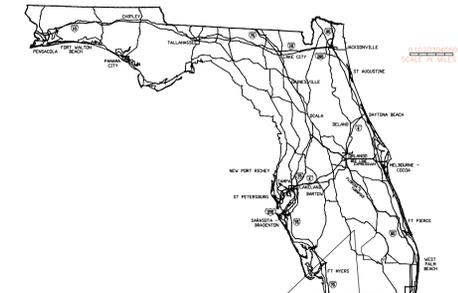
LOT:

A PORTION OF TRACT "C" OF HIGHLANDS PARK ESTATES SECTION "F" AS RECORDED IN PLAT BOOK 4, PAGE 95 OF THE PUBLIC RECORDS OF HIGHLANDS COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCE AT THE POINT OF INTERSECTION OF THE EASTERLY RIGHT-OF-WAY LINE OF CLARK AVENUE AND THE SOUTHERLY RIGHT-OF-WAY LINE OF LINCOLN BOULEVARD AS SHOWN ON SAID PLAT OF HIGHLANDS PARK ESTATES SECTION "F", SAID POINT OF INTERSECTION BEING THE POINT OF BEGINNING; THENCE NORTH 0° 37' 08" WEST, 95.00 FEET ALONG SAID EASTERLY RIGHT-OF-WAY LINE OF CLARK AVENUE; THENCE NORTH 89° 21' 49" EAST, 85.00 FEET; THENCE SOUTH 0° 37' 08" EAST, 95.00 FEET; THENCE SOUTH 89° 21' 49" WEST, 85.00 FEET ALONG THE EASTERLY EXTENSION OF SAID SOUTHERLY RIGHT-OF-WAY LINE OF LINCOLN BOULEVARD TO THE POINT OF BEGINNING. CONTAINING 0.1854 ACRES MORE OR LESS.

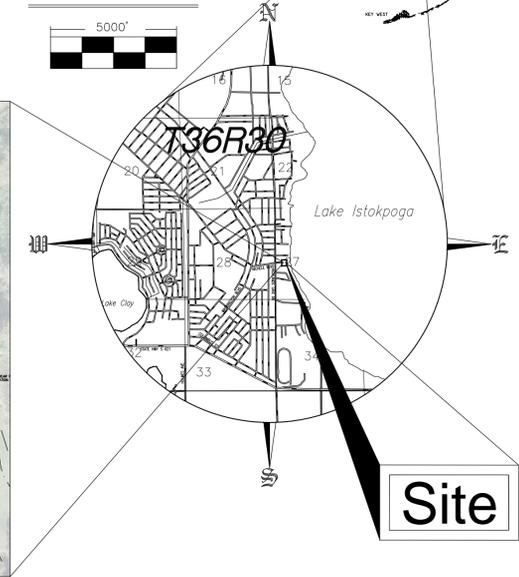
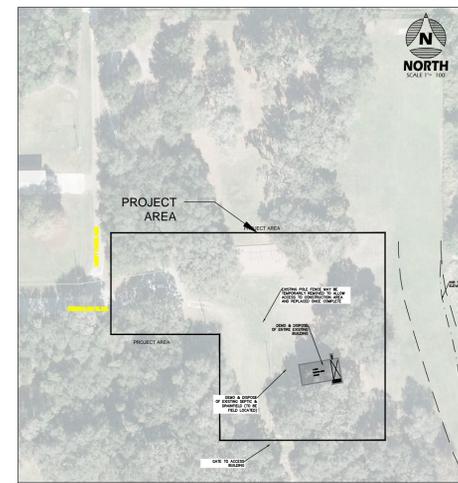
SOIL BORING NOTES:

SB 1:	POMELLO (36)
ELEVATION	- 45.70
BH	- 35" (42.78)
WT	- 60" (40.70)
SHWT	- 30" (43.20)

Important:  
The information and design shown on these drawings is based on the best available information provided for design. The drawing is to scale as much as possible; however no measurements should be made by scaling from these drawings as some items may be not to scale for drawing clarity. Any questions or conflicts should be brought to the engineer immediately for clarification or resolution. Polston Engineering Inc. shall not be responsible for any errors made by others caused by making assumptions or errors caused by scaling the plans. All construction shall follow the accepted safety procedures and construction techniques as required by any applicable government standards.



SEC. 27, T36S R30E  
LOCATION MAP



STRAP NUMBERS  
C-20-36-30-060-00C0-0000  
C-20-36-30-060-00C0-0010

DEVELOPMENT:  
PARKING LOT  
91 DEERGLN BLVD  
LAKE PLACID, FL 33852

HIGHLANDS PARK ESTATES  
SPECIAL BENEFIT DISTRICT  
NEW CLUBHOUSE BUILDING  
325 MISTY OAKS AVE.  
LAKE PLACID, FL 33852

OWNERS:  
HIGHLANDS PARK ESTATES  
SPECIAL BENEFIT DISTRICT  
P O BOX 1926  
SEBRING, FL 33871  
(863) 402-6877

HIGHLANDS COUNTY BOARD OF  
COUNTY COMMISSIONERS  
PO BOX 1926  
SEBRING, FL 33871-1926  
(863) 402-6877

ENGINEER: ROGER DALE POLSTON, P.E.  
POLSTON ENGINEERING, INC.  
P.O. BOX 588  
SEBRING, FL 33871-0588  
(863) 385-5564  
(863) 385-2462 FAX

ARCHITECT: KEITH HUNNICUT, A.I.A.  
SCMH ARCHITECTS  
1036 SOUTH FLORIDA AVENUE  
LAKELAND, FL 33803-1118  
(863) 688-8882  
(863) 688-8361 FAX

UTILITY PROVIDERS:  
GLADES ELECTRIC CO-OP  
214 SR 70 WEST  
GLEN STIMSON  
863-531-5000 OR  
863-465-0231

TESTING LAB: UNIVERSAL ENGINEERING  
SCIENCES INC.  
5971 COUNTRY LAKES DRIVE  
FORT MYERS, FLORIDA 33905  
(239) 995-1997  
(239) 313-2347 FAX  
(OR OTHERS HIRED BY OWNER)

SURVEYOR: HIGHLANDS COUNTY  
505 S. COMMERCE AVE.  
SEBRING, FL 33870  
(863) 402-6877  
(863) 402-6548 FAX

TOTAL PROJECT AREA:	60,840 SQ.FT.	1,397 AC.	
TOTAL LAND AREA:	153,453 SQ.FT.	3,523 AC.	(BOTH PARCELS)
IMPERVIOUS AREA(PARK):	6,448 SQ. FT.	0.148 AC.	=4.2% IMPERVIOUS=
IMPERVIOUS AREA(LOT):	4,572 SQ.FT.	0.105 AC.	
ROAD SURFACE AREA:	4,415 SQ. FT.	0.101 AC.	
WALKS:	950 SQ. FT.	0.022 AC.	
BUILDING AREA:	2,925 SQ. FT.	0.067 AC.	1.83%
EXISTING ZONING:	R1		
EXISTING F.L.U.:	MEDIUM DENSITY RESIDENTIAL		

WATER: ON-SITE WELL  
SANITARY: ON-SITE SEPTIC  
POWER: GLADES ELECTRIC  
SOIL TYPE: POMELLO SAND  
GROUND COVER: GRASS, ASPHALT, BUILDING  
BUILDING HEIGHT: LESS THAN 25'  
INTENSITY: 0.065  
FLOOR AREA RATIO: 1.83%

LOCAL, STATE AND FEDERAL PERMITS REQUIRED: HIGHLANDS COUNTY  
DEP 10-2 SELF CERTIFICATION  
HEALTH DEPT. (SEPTIC & WELL)

IMPERVIOUS AREA CALCULATIONS

EXISTING HCBCC LOT:	(SQ. FT.)	(AC.)
ASPHALT PARKING	3,516.0	0.081
SHELL PARKING	950.0	0.022
STABILIZED GRASS DRIVE	157.0	0.004
TOTAL EXISTING	4,623.0	0.106

EXISTING HIGHLANDS PARK PARCEL:

BUILDING	1,145.0	0.026
TOTAL EXISTING	1,145.0	0.026

PROPOSED HCBCC LOT:

ASPHALT PARKING	4,415.0	0.101
SIDEWALK	65.0	0.001
STABILIZED FIRE LANE	92.0	0.002
SUBTOTAL	4,572.0	0.105

PROPOSED HIGHLANDS PARK PARCEL:

BUILDING	2,925.0	0.067
SIDEWALK	950.0	0.022
STABILIZED FIRE LANE	2,573.0	0.059
SUBTOTAL	6,448.0	0.148
INCREASE FOR HCBCC LOT	-51.0	-0.001
INCREASE FOR HIGHLANDS PARK PARCEL	5,303.0	0.122

SHEET INDEX

SHEET 1 - COVER
SHEET 2 - EXISTING SITE
SHEET 3 - PROPOSED SITE

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DATE	REMARK
03-08-17	ORIGINAL SUBMITTAL
03-23-17	COUNTY REVISIONS
04-03-17	COUNTY REVISIONS
07-12-17	REVISIONS
08-02-17	COUNTY REVISIONS
09-07-17	COUNTY REVISIONS
10-09-17	COUNTY REVISIONS

CERTIFICATE OF AUTHORIZATION # 5884  
ROGER DALE POLSTON, P.E. # 46826  
MARVIN LUTHER WOLFE, P.E. # 46830

**Polston Engineering Inc.**  
CIVIL ENGINEERING CONSULTANTS  
2925 KENILWORTH BLVD., SEBRING, FLORIDA 33870  
863-385-5564 PHONE - 863-385-2462 FAX

ENGINEER JOB #  
**17014**

**HIGHLANDS PARK ESTATES  
SPECIAL BENEFIT DISTRICT  
CLUBHOUSE BUILDING  
COVER**

FOR BID  
ORIGINAL SHEET SIZE: 24"x36"  
DRAWING SCALE  
**N.T.S.**  
SHEET  
1 OF 4

DIVISION 2: TECHNICAL SPECIFICATIONS  
 SEC. 02.01. GENERAL NOTES AND DRAWINGS ARE AN INTEGRATED PART OF THE CONTRACT DOCUMENTS AND AS SUCH WILL NOT STAND ALONE IF USED INDEPENDENTLY AS INDIVIDUAL PARTS, PARAGRAPHS, OR DRAWING SHEETS. THE DRAWINGS AND SPECIFICATIONS ESTABLISH MINIMUM STANDARDS OF QUALITY FOR A PROJECT. THEY DO NOT PURPORT TO COVER ALL DETAILS ENTERING INTO ITS DESIGN AND CONSTRUCTION OR OF ALL MATERIAL AND EQUIPMENT REQUIRED TO COMPLETE THE WORK.

SEC. 02.02. MAINTENANCE OF TRAFFIC  
 A. CONTROL DEVICES: THE CONTRACTOR SHALL BE REQUIRED TO KEEP THE ENTIRE WORK SITE IN FULL COMPLIANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, CURRENT EDITION AND THE USDOT, FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.  
 B. DETOUR: DETOURS SHALL BE REQUIRED BY THE COUNTY ENGINEER. ANY DETOUR APPROVED AS A PART OF THE TRAFFIC CIRCULATION PLAN, SHALL BE REQUIRED TO BE PROPERLY POSTED AND A MINIMUM OF 48-HOURS ADVANCE NOTICE SHALL BE GIVEN TO THE COUNTY ENGINEER'S OFFICE, LAW ENFORCEMENT AGENCIES, FIRE DEPARTMENT, SCHOOL BOARD AND EMERGENCY SERVICES. ADVANCE NOTICE SHALL BE PLACED AT THE LAST INTERSECTION BEFORE THE DETOUR.  
 C. DRIVEWAYS KEPT OPEN: NO BUSINESS WILL HAVE VEHICULAR ACCESS TOTALLY BLOCKED AT ANY TIME. DRIVEWAY ACCESS TO PROPERTY WILL NOT BE BLOCKED FOR MORE THAN 8 HOURS ON ANY DAY. PROPERTY OWNERS WILL BE NOTIFIED IN WRITTEN FORM BY THE CONTRACTOR 24 HOURS PRIOR TO THE BLOCKING OF ANY DRIVEWAY, BUSINESS, OR PROPERTY ACCESS. BLOCKING OF DRIVEWAYS WILL REQUIRE ADVANCE APPROVAL BY THE COUNTY ENGINEER.

D. MAINTENANCE OF TRAFFIC VIOLATIONS: THE COUNTY WILL REPORT ANY KNOWN VIOLATION OF THE REQUIRED MAINTENANCE OF TRAFFIC TO THE OWNER, PROJECT ENGINEER, OR CONTRACTOR. THE CONTRACTOR WILL HAVE 4 HOURS OF REGULARLY SCHEDULED WORK TIME TO BRING THE SITE INTO FULL COMPLIANCE. IF THIS IS NOT DONE, THE COUNTY WILL HAVE THE OPTION TO TAKE ANY CORRECTIVE MEASURES IT FEELS NECESSARY TO BRING THE SITE INTO FULL COMPLIANCE.  
 E. TRAFFIC CONTROL PLAN APPROVAL: PRIOR TO THE COMMENCEMENT OF WORK AT THE JOB SITE, THE PROJECT ENGINEER SHALL RECEIVE APPROVAL OF HIS TRAFFIC CONTROL PLAN FROM THE COUNTY ENGINEER. THE TRAFFIC CONTROL PLAN SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD OF THE PROJECT.

SEC. 02.02. DRIVEWAY INGRESS AND EGRESS MAINTENANCE: THIS SPECIFICATION SHALL ONLY APPLY WHERE RESIDENCES, BUSINESSES, AND OTHER TYPES OF PROPERTY FRONT ON THE ROAD TO BE CONSTRUCTED OR RECONSTRUCTED, AND DRIVEWAY CONNECTIONS ARE TO BE DISTURBED.  
 A. CONTRACTOR WILL BE REQUIRED TO PLACE COMMERCIAL BASE MATERIAL IN DRIVEWAYS AND/OR ACCESS POINTS AFFECTED BY THE PROJECT, WHERE CONSIDERED NECESSARY BY THE PROJECT ENGINEER TO PROVIDE SAFE, STABLE AND REASONABLE ACCESS TO RESIDENCES, BUSINESSES, AND PROPERTY.  
 B. THE MATERIALS TO BE USED FOR DRIVEWAY MAINTENANCE SHALL BE LIMEROCK, STONE OR OYSTER SHELL. THE GRADE AND QUALITY OF THE MATERIAL SHALL BE THAT OFFERED FOR COMMERCIAL SUPPLY IN THE AREA. COMMERCIAL MATERIALS USED IN LOCATIONS WHICH HAVE INADEQUATE DRAINAGE OR ARE PRONE TO BE WET, SHALL BE OF A STABLE CHARACTER, UNAFFECTED BY WET CONDITIONS.  
 C. THE MATERIAL SHALL BE PLACED IN THE DRIVEWAY AS DIRECTED BY THE PROJECT ENGINEER. THE MATERIAL SHALL BE LEVELLED, MANIPULATED, COMPACTED AND MAINTAINED, TO THE EXTENT APPROPRIATE FOR THE INTENDED USE OF THE PARTICULAR DRIVEWAY.  
 D. AS PERMANENT DRIVEWAY CONSTRUCTION IS ACCOMPLISHED AT A PARTICULAR LOCATION, PREVIOUSLY PLACED COMMERCIAL MATERIALS WHICH ARE SUITABLE FOR REUSE MAY BE SALVAGED AND REUSED ON OTHER DRIVEWAYS AS DIRECTED.

SEC. 02.03. CLEARING AND GRUBBING  
 A. CLEARING AND GRUBBING SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF ALL TIMBER, BRUSH, VEGETATION, STUMPS, ROOTS, BOULDERS, PAVEMENT, RUBBISH AND DEBRIS AND ALL OTHER MATERIALS AND OBSTRUCTIONS RESTING ON OR PROJECTING THROUGH THE SURFACE OF THE EXISTING GROUND AND THE SURFACE OF WORK AREAS. MATERIALS RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF BY THE CONTRACTOR IN A PROPER PLACE.  
 B. AS AN EXCEPTION TO THE ABOVE PROVISIONS, WHERE SO DIRECTED BY THE PROJECT ENGINEER AND APPROVED BY THE COUNTY ENGINEER, DESIRABLE TREES WITHIN THE ROADWAY SHALL BE TRIMMED, PRUNED AND LEFT STANDING. BRANCHES OF TREES EXTENDING OVER THE AREA OCCUPIED BY THE ROADWAY SHALL BE TRIMMED AS DIRECTED, TO ONE CLEAR HEIGHT OF 16 FEET ABOVE THE ROADWAY.  
 C. WITHIN THE RIGHT-OF-WAY AND WITHIN ALL SHELLS AND DITCHES, ALL STUMPS, ROOTS, ETC., PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE COMPLETED EXCAVATION SHALL BE REMOVED OR CUT OFF BELOW THE FINISHED EXCAVATION SURFACE. WITHIN ALL OTHER AREAS WHERE CLEARING AND GRUBBING IS TO BE DONE, ROOTS AND OTHER DEBRIS, PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE ORIGINAL GROUND, SHALL BE REMOVED TO A DEPTH OF ONE FOOT BELOW THE BOTTOM OF THE SUBGRADE.  
 D. BURNING OF SUCH MATERIALS WILL ONLY BE ALLOWED WITH A PROPER BURNING PERMIT OBTAINED AND ALL SUCH BURNING SHALL BE SUBJECT TO APPLICABLE LAWS, ORDINANCES AND REGULATIONS AND SHALL BE DONE AT LOCATIONS WHERE TREES AND SHRUBS ADJACENT TO THE CLEARED AREA WILL NOT BE HARMED. BURNING MAY BE REQUIRED TO CEASE IMMEDIATELY IF COMPLAINTS ARE RECEIVED BY THE PROJECT ENGINEER OR THE COUNTY ENGINEER.

SEC. 02.04. EARTHWORK: ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND ALL ACTIVITIES PERFORMED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, CURRENT EDITION.  
 SEC. 02.05. RIGID LIFT OR OTHER MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, CURRENT EDITION.  
 SEC. 02.06. RIPRAP (SAND-CEMENT): ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM, CURRENT EDITION.  
 SEC. 02.07. INSPECTIONS, FIELD MEASUREMENTS AND LABORATORY TESTS:  
 A. GENERAL: THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN ADVANCE OF THE TIME AND DATE WHEN ANY TESTS CAN BE CONDUCTED, SO THAT THE PROJECT ENGINEER MAY SCHEDULE THE REQUIRED TESTING WITH THE INDEPENDENT TESTING LABORATORY. THE TEST SAMPLES SHALL BE TAKEN BY EITHER AN EMPLOYEE OF THE CONTRACTOR OR AN EMPLOYEE OF THE INDEPENDENT TESTING LABORATORY OR THE PROJECT ENGINEER OR HIS REPRESENTATIVE. IN NO CASE SHALL THE CONTRACTOR TAKE THE SAMPLES OR TRANSPORT THE SAMPLES TO THE LABORATORY. THE PROJECT ENGINEER SHALL INSPECT ALL CONSTRUCTION AND IS AUTHORIZED TO CALL TO THE ATTENTION OF THE CONTRACTOR ANY FAILURE OF WORK OR MATERIALS TO CONFORM WITH THE PLANS AND SPECIFICATIONS. THE FOLLOWING LABORATORY TESTS OR FIELD MEASUREMENTS AND FREQUENCY OF SUCH SHALL BE MADE IN ACCORDANCE WITH THE PROJECT ENGINEER'S DIRECTION BY THE INDEPENDENT TESTING LABORATORY, AT THE PROJECT EXPENSE, AND IN KEEPING WITH GOOD ENGINEERING PRACTICES. THE CONTRACTOR IS REQUIRED TO CONDUCT AND/OR STOP HIS WORK SO THAT THE APPROPRIATE TESTS, SAMPLES AND MEASUREMENTS CAN BE MADE IN A SAFE AND PROPER MANNER. THE CONTRACTOR SHALL RECEIVE COPIES OF THE TEST REPORTS FROM THE PROJECT ENGINEER. THE INDEPENDENT TESTING LABORATORY SHALL MAIL OR HAND DELIVER COPIES OF ALL TESTS DIRECTLY TO THE OFFICE OF THE COUNTY ENGINEER.  
 B. SUB-BASE AND SHOULDER: SUB-BASE AND SHOULDER TESTS SHALL BE MADE AS FOLLOWS:

1. PROCTOR: ONE PER MILE UNLESS THE NATIVE SOILS ARE SIGNIFICANTLY DIFFERENT. IN THAT CASE, ONE PER EVERY MAJOR SOILS TYPE. SAMPLE SHALL BE TAKEN FROM THE ROADWAY AFTER SCRAPING AND MIXING.  
 2. WIDTH: EVERY 200 FEET AFTER SUB-BASE AND SHOULDERS HAVE BEEN MIXED, AND COMPACTED AND PRIOR TO ANY "BOXING OUT" OPERATION.  
 3. DEPTH:  
 A. SUB-BASE: EVERY 200 FEET WITHIN THE AREA TO BE COVERED BY THE BASE MATERIAL AFTER FINAL GRADING AND COMPACTION; JUST PRIOR TO THE PLACEMENT OF THE BASE MATERIAL. TESTS WILL BE CONDUCTED IN A ZIG-ZAG PATTERN COVERING THE ENTIRE AREA DESCRIBED ABOVE.  
 B. SHOULDER: EVERY 400 FEET, EACH SIDE, WITHIN THE SHOULDER AREAS PRIOR TO ANY "BOXING OUT" OPERATION, BUT AFTER MIXING AND COMPACTION.

1. FLORIDA BEARING VALUE (FBV): AT 200 FOOT INTERVALS TAKE THREE SAMPLES. SAMPLES SHALL BE TAKEN FROM ONE FOOT IN FROM THE OUTSIDE EDGE OF THE SHOULDER AND ONE FROM WITHIN THE TRAFFIC LANE (AREAS). COMBINE THE TOP 1/2 OF THREE CONSECUTIVE SAMPLES INTO ONE COMPOSITE SAMPLE AND COMBINE THE BOTTOM 1/2 OF THE SAME THREE SAMPLES INTO ANOTHER SINGLE COMPOSITE SAMPLE. MINIMUM ACCEPTABLE FBV IS 60 PSI. (NO TOLERANCE ACCEPTABLE.)  
 2. DENSITY:  
 A. SUB-BASE: EVERY 200 FEET, IN A ZIG-ZAG PATTERN, AND JUST PRIOR TO THE PLACEMENT OF THE BASE. EVERY OTHER TEST WILL BE MADE AT THE PROPOSED EDGE OF THE PAVEMENT. MINIMUM ACCEPTABLE VALUE: 95% DENSITY AS PER AASHTO T-180.  
 B. SHOULDER: EVERY 400 FEET FROM THE OUTSIDE EDGE OF THE SHOULDER, ON EACH SIDE OF THE ROAD. DENSITY SAMPLES SHALL BE TAKEN JUST PRIOR TO THE "BOXING OUT" OPERATION FOR THE BASE. MINIMUM ACCEPTABLE VALUE: 95% DENSITY AS PER AASHTO T-180.  
 3. FAILURES: ANY FAILURE REVEALED BY THE REQUIRED FIELD MEASUREMENTS AND LABORATORY TESTS REQUIRING ADDITIONAL MATERIAL SHALL REQUIRE THE CONTRACTOR TO SCRAPE THE EXISTING MATERIAL, PLACE THE ADDITIONAL MATERIAL AND THEN RE-SHARE AND RE-COMPACT THE SUB-BASE FOR A MINIMUM DISTANCE OF 50 FEET EACH SIDE OF THE FAILURE. DEFICIENT DENSITY WILL REQUIRE ADDITIONAL COMPACTION A MINIMUM OF 50 FEET EACH SIDE OF THE FAILURE.  
 4. PLACEMENT OF THE BASE: THE BASE SHALL BE PLACED ON THE SUB-BASE ONLY AFTER COPIES OF THE RESULTS OF THE REQUIRED FIELD MEASUREMENTS AND LABORATORY TESTS FOR THE SUB-BASE HAVE BEEN RECEIVED AND APPROVED BY THE PROJECT ENGINEER.

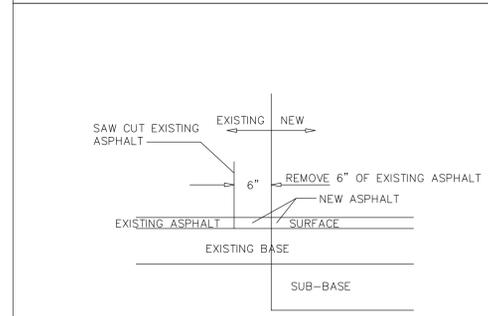
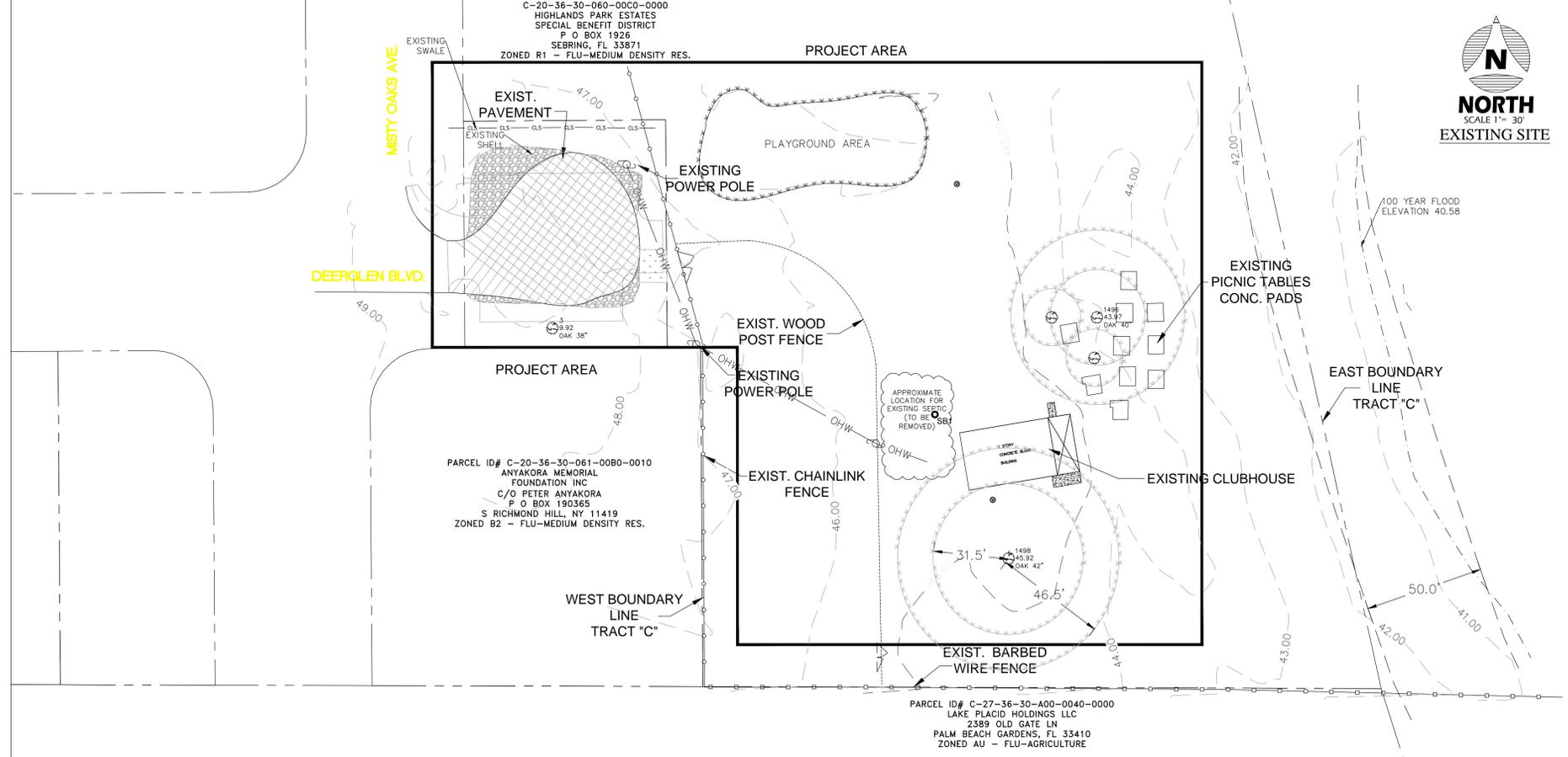
C. BASE (LIMEROCK OR SHELLROCK): TESTS FOR THE BASE SHALL BE MADE AS FOLLOWS:  
 1. MATERIAL: FOR MATERIAL WHOSE SOURCE IS AN FOOT APPROVED AND CERTIFIED MINING PIT, SUBMITTAL OF COPIES OF THE PIT CERTIFICATION SHALL BE REQUIRED, FOR MATERIAL FROM ANY OTHER SOURCE, SUBMITTAL OF TEST RESULTS FROM AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH A BASE MATERIAL TESTING PLAN, APPROVED IN ADVANCE BY THE COUNTY ENGINEER, SHALL BE REQUIRED.  
 2. PROCTOR: ONE PER MILE UNLESS THE BASE MATERIAL CHANGES IN QUALITY. SAMPLE MUST BE TAKEN FROM AN ON-SITE STOCKPILE.  
 3. WIDTH: DEPTH: CROWN: EVERY 200 FEET AS SHOWN ON PLANS. SEE TYPICAL SECTIONS IN SECTION SIX ILLUSTRATIONS FOR MINIMUM REQUIREMENTS.  
 4. DENSITY: EVERY 200 FEET IN A ZIG-ZAG PATTERN WITHIN THE AREAS TO BE COVERED BY PAVEMENT. MINIMUM ACCEPTABLE VALUE: 95% DENSITY AS PER AASHTO T-180.  
 5. BASE FAILURES: ANY FAILURE BY THE REQUIRED FIELD MEASUREMENT AND LABORATORY TESTS REQUIRING ADDITIONAL BASE MATERIAL SHALL REQUIRE THE CONTRACTOR TO SCRAPE THE EXISTING BASE MATERIAL, PLACE THE ADDITIONAL MATERIAL AND THEN RE-SHARE AND RE-COMPACT THE BASE FOR A MINIMUM DISTANCE OF 50 FEET EACH SIDE OF THE FAILURE. DEFICIENT DENSITY OF THE BASE WILL REQUIRE ADDITIONAL COMPACTION A MINIMUM OF 50 FEET EACH SIDE OF THE FAILURE.  
 6. BASE PRACING: ONCE THE BASE IS APPROVED BY THE TESTING LABORATORY, THE CONTRACTOR SHALL AS SOON AS POSSIBLE PRIME AND SAND-SEAL THE BASE. APPROVAL MUST BE OBTAINED FROM THE PROJECT ENGINEER. THIS APPROVAL CAN BE GRANTED ONLY AFTER THE PROJECT ENGINEER RECEIVES THE RESULTS OF THE FIELD MEASUREMENTS AND LABORATORY TESTS DIRECTLY FROM THE INDEPENDENT TESTING LABORATORY.

D. SHOULDER: THE FINISHED SHOULDER AREA IS INTENDED TO BE COMPACTED TO A SMOOTH, FIRM CONDITION THAT CAN ACCOMMODATE VEHICLES WITHOUT RUTS BEING CREATED. IF, IN THE OPINION OF THE PROJECT ENGINEER, EXCESS UNSUITABLE MATERIAL HAS BEEN INCORPORATED INTO THE TOP 6 INCHES OF THE SHOULDER, HE MAY REQUIRE THAT STABILIZING MATERIAL BE ADDED AND MIXED TO PRODUCE A FBV OF 60 PSI AND BE COMPACTED TO A MINIMUM DENSITY OF 95% AS PER AASHTO T-180.  
 E. TRENCHES FOR UNDERGROUND PIPES OR STRUCTURES: THE FOLLOWING TESTS SHALL BE MADE:  
 1. PROCTOR: ONE PER MILE OF TRENCH. SAMPLES SHALL BE TAKEN FROM EACH DIFFERENT SOIL OR MATERIAL ALLOWED FOR BACKFILL.  
 2. DENSITY: EVERY 200 FEET OUTSIDE AREAS OF VEHICULAR TRAFFIC AND EVERY 10 FEET WHERE THE TRENCH CROSSES AN AREA OF VEHICULAR TRAVEL, INCLUDING DRIVEWAYS. FREQUENCY OF TESTING WILL BE THE SAME FOR EACH LIFT. EACH COMPACTED ONE FOOT DEPTH OF BACKFILL IS A LIFT. TESTING OF DENSITY WILL START WHEN BACKFILL IS 12 INCHES OVER THE TOP OF THE PIPE. TESTING SHALL BE DONE AT THE BOTTOM OF THE TRENCH AS INDICATED BY THE PROJECT ENGINEER.  
 3. DENSITY REQUIREMENTS: THE DENSITY REQUIREMENTS ARE THAT:  
 A. IN AREAS OF PROPOSED OR EXISTING PAVING OR VEHICULAR TRAFFIC ALL BACKFILL, SUB-BASE, AND BASE MATERIAL SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS PER AASHTO T-180, AND  
 B. IN OTHER AREAS NOT UNDER PROPOSED OR EXISTING PAVING OR IN AREAS NOT SUBJECT TO VEHICULAR TRAFFIC, THE BACKFILL SHALL BE COMPACTED TO 90% DENSITY AS PER AASHTO T-180.  
 SEC. 02.208. TOLERANCES: THE REQUIRED THICKNESSES AND WIDTHS SHALL BE THE ABSOLUTE MINIMUM ALLOWABLE. NO ALLOWANCE WILL BE MADE FOR FAILURE IN A WIDTH OR DEPTH DIMENSION. FLORIDA BEARING VALUE AND DENSITY REQUIREMENTS SHOWN ON THE PLANS AND SPECIFICATIONS ARE THE ABSOLUTE MINIMUM ALLOWABLE AND NO VALUES LESS THAN THOSE SPECIFIED WILL BE ACCEPTED. GRADES ON DITCH INVERTS OR MINUS DIPS OF A FOOT FROM PLAN DIMENSIONS.  
 SEC. 02.209. STABILIZED SUBBASE AND SHOULDERS: ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.  
 SEC. 02.210. LIMEROCK OR SHELLROCK BASE: ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.  
 SEC. 02.211. ASPHALT: ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.  
 SEC. 02.212. ASPHALT: ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.

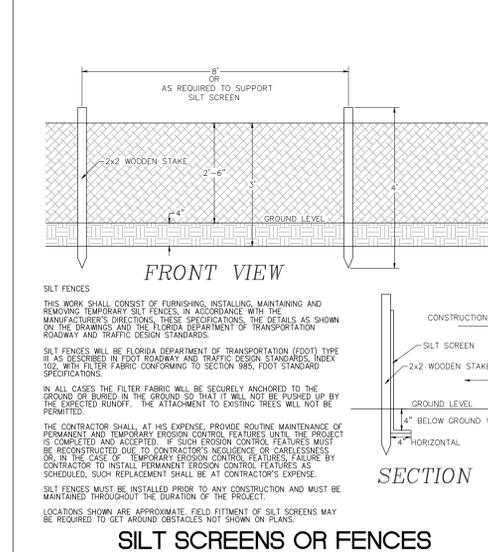
SEC. 02.213. SIGNS: ALL MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, USDOT, FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.  
 SEC. 02.214. CURBETS/STORM SEWERS: ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.  
 SEC. 02.215. GRASSING: ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION. THE AREAS ON WHICH THE SOIL IS TO BE PLACED SHALL CONTAIN SUFFICIENT MOISTURE FOR OPTIMUM RESULTS AFTER BEING PLACED. THE SOIL SHALL BE WATERED AND KEPT IN A MOST CONDITION FOR NO LESS THAN TWO WEEKS (MINIMUM) OR UNTIL THE ENTIRE PROJECT IS ACCEPTED BY THE PROJECT ENGINEER AND THE COUNTY ENGINEER. THE MOST DAMAGED CONDITION SHALL EXTEND AT LEAST TO THE FULL DEPTH OF THE ROOTING ZONE. WATER SHALL NOT BE APPLIED, HOWEVER, WHEN THERE IS DANGER OF A FREEZING CONDITION.  
 SEC. 02.216. STAKED SILT FENCES: ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.  
 SEC. 02.217. TEMPORARY PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION: ALL MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.  
 SEC. 02.218. FENCING: ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.

SEC. 02.220. CONCRETE: ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND CONSTRUCTED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.  
 SEC. 02.221. FIELD ENGINEERING, SURVEYING AND RIGHT-OF-WAY: ALL MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, CURRENT EDITION.  
 A. FIELD ENGINEERING AND SURVEYING SERVICES SHALL INCLUDE SURVEY WORK TO ESTABLISH RIGHT-OF-WAY LINES AND LEVELS AND TO LOCATE AND LAY OUT SITE IMPROVEMENTS, STRUCTURES, AND CONTROLLING LINES AND LEVELS REQUIRED FOR THE CONSTRUCTION OF THE WORK. ALSO INCLUDED ARE SUCH ENGINEERING SERVICES AS ARE SPECIFIED OR REQUIRED TO EXISTE. CONTRACTOR'S CONSTRUCTION METHODS ENGINEERS SHALL BE LICENSED PROFESSIONALS IN THE STATE OF FLORIDA.  
 B. EXISTING BASIC HORIZONTAL AND VERTICAL CONTROL POINTS FOR THE PROJECT ARE THOSE DESIGNATED ON THE DRAWINGS. CONTRACTOR SHALL LOCATE AND PROTECT CONTROL POINTS PRIOR TO STARTING SITE WORK AND SHALL PRESERVE ALL PERMANENT REFERENCE POINTS DURING CONSTRUCTION. IN WORKING NEAR ANY PERMANENT PROPERTY CORNERS OR REFERENCE MARKERS, CONTRACTOR SHALL USE CARE NOT TO REMOVE OR DISTURB ANY SUCH MARKERS. IN THE EVENT THAT MARKERS MUST BE REMOVED OR ARE DISTURBED DUE TO PROXIMITY OF THE CONSTRUCTION WORK, CONTRACTOR SHALL HAVE THEM REFERENCED AND RESET BY A LAND SURVEYOR QUALIFIED UNDER THE LAWS OF THE STATE OF FLORIDA.  
 C. CONTRACTOR SHALL LAY OUT THE WORK ORIGIN AND LOCATION AND TO THE LINES AND GRADES SHOWN ON THE DRAWINGS. SURVEY NOTES INDICATING INFORMATION AND MEASUREMENTS USED IN ESTABLISHING LINES AND GRADES SHALL BE KEPT IN NOTEBOOKS AND COPIES FURNISHED TO PROJECT ENGINEER AND THE COUNTY ENGINEER, AS A MINIMUM THE FOLLOWING ITEMS WILL BE STATED:  
 1. RIGHT-OF-WAY, STAKED AT EACH STATION OR WHEREVER THE RIGHT-OF-WAY CHANGES WIDTH OR DIRECTION, AT ANY OFFSET DESIRED;  
 2. QUOTED OR FILL TO CENTERLINE GRADE AND SMALL GRADE AT EACH STATION OR WHEREVER CHANGES OCCUR AT POINTS OF VERTICAL INTERSECTION; AND  
 3. SET PROPOSED CENTERLINE ELEVATION OF ALL INTERSECTING ROADS ONE TIME AND NOTE THOSE ELEVATIONS IN FIELDBOOK; COMPARE THOSE ELEVATIONS AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.  
 ALL THE ABOVE MENTIONED SURVEY WORK WILL BE DONE BY A SURVEYOR LICENSED TO PRACTICE IN THE STATE OF FLORIDA.

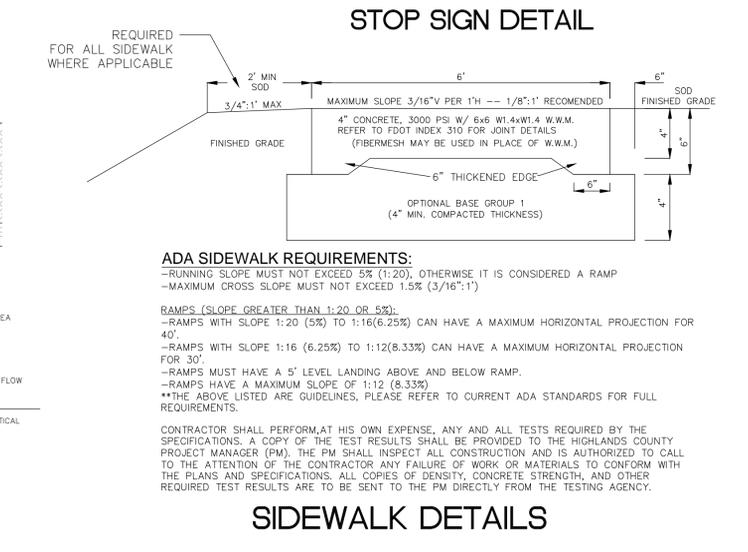
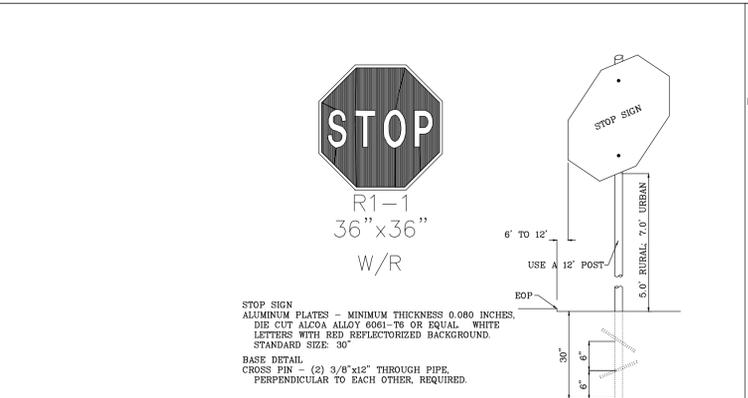
SEC. 02.222. OBSTRUCTIONS IN RIGHT-OF-WAY  
 A. NEARWAYS, FENCES, MAIL BOXES, STAKES, WALKWAYS, AND OTHER OBSTRUCTIONS PLACED IN THE RIGHT-OF-WAY WILL BE REMOVED FROM THE WORK AREAS, AS REQUIRED TO KEEP THE WORK PROGRESSIVE, BY THE CONTRACTOR. IN THE EVENT THAT THE OWNER CANNOT BE IDENTIFIED OR IS UNABLE OR UNWILLING TO REMOVE SAID OBSTRUCTIONS THEMSELVES, THE OBSTRUCTION WILL BE POSTED WITHIN THE RIGHT-OF-WAY AND REMOVED BY THE CONTRACTOR 24 HOURS PRIOR TO ANY REMOVAL. THAT SAID OBJECT WILL BE REMOVED. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR ANY DAMAGE TO SAID OBJECTS THAT OCCURS WHILE BEING MOVED BY THE CONTRACTOR, AFTER PROPER NOTIFICATION AND THE APPROVAL OF THE PROJECT ENGINEER. ANY OBJECTS THAT ARE REMOVED FROM WITHIN THE RIGHT-OF-WAY, EXCEPT MAILBOXES, WILL BE HAULED AWAY AND DISPOSED OF BY THE CONTRACTOR IN A PROPER LANDFILL.  
 SEC. 02.223. SHOP DRAWING SUBMITTALS: THE FOLLOWING INFORMATION AND/OR DRAWINGS SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO BEGINNING WORK:  
 A. INFORMATION ON THE PIPE AND CURBETS, INDICATING THE TYPE, CLASS, SIZE, AND OTHER RELEVANT INFORMATION;  
 B. ASPHALT MIX DESIGN;  
 C. DOCUMENTATION ON ALL OTHER MATERIALS USED INCLUDING, BUT NOT LIMITED TO, FILTER FABRIC, GUARDRAILS, CONCRETE, STEEL, POSTS, CURING COMPOUND, AND JOINT MATERIAL;  
 D. SAMPLE OF TAG FOR WRITTEN NOTIFICATION OF OWNERS; AND  
 E. TRAFFIC PLAN (A DRAWING TO SCALE OF EACH PHASE SHOWING ALL BARRICADES, SIGNS AND FLAGMEN IS REQUIRED).



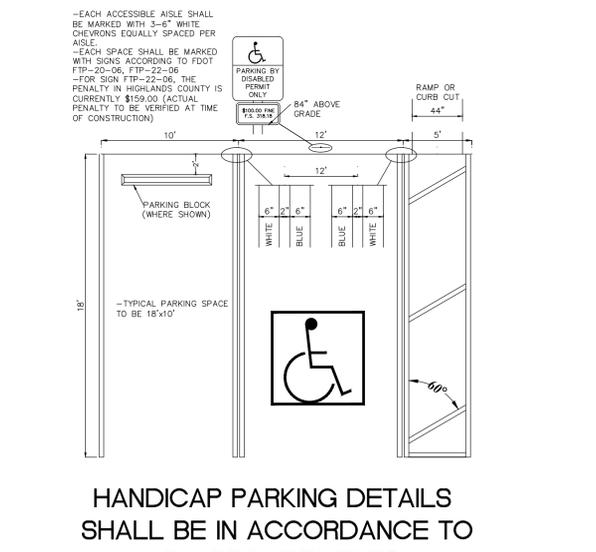
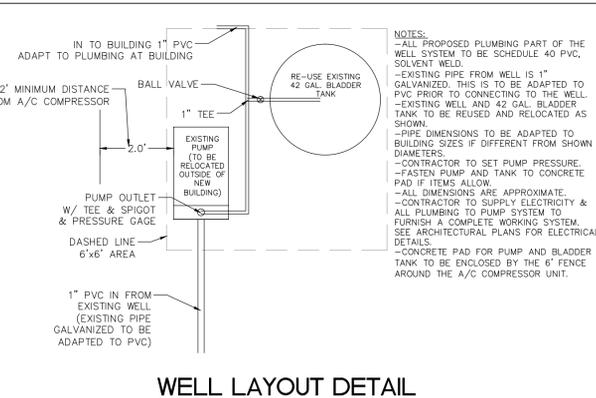
### CONNECTION TO EXISTING PAVEMENT



### SILT SCREENS OR FENCES



### SIDEWALK DETAILS



DATE	REVISION	REMARKS
03-08-17	DRJ ROP	ORIGINAL SUBMITTAL
03-23-17	DRJ ROP	COUNTY REVISIONS
04-03-17	DRJ ROP	COUNTY REVISIONS
05-22-17	DRJ ROP	WELL DETAIL REVISION
07-12-17	DRJ ROP	REVISIONS
08-02-17	DRJ ROP	COUNTY REVISIONS
09-07-17	DRJ ROP	COUNTY REVISIONS
10-05-17	DRJ ROP	COUNTY REVISIONS

CERTIFICATE OF AUTHORIZATION # 5884  
 ROBERT W. POLSTON, P.E. # 24270  
 MARVIN LUTHER WOLFE, P.E. # 46830

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**Polston Engineering Inc.**  
 CIVIL ENGINEERING CONSULTANTS  
 2925 KEWILLWORTH BLVD., SEBRING, FLORIDA 33870  
 863-385-5564 PHONE - 863-385-2462 FAX

**HIGHLANDS PARK ESTATES SPECIAL BENEFIT DISTRICT CLUBHOUSE BUILDING EXISTING SITE**

ENGINEER JOB# **17014**

**FOR BID**  
 ORIGINAL SHEET SIZE: 24"x36"  
 DRAWING SCALE  
**1" = 30'**  
 SHEET  
**2 OF 4**

SEPTIC CALCULATIONS:  
 USE: INSTITUTIONAL - PARKS, PUBLIC  
 WITH TOILETS ONLY PER PERSON..... 4 GAL.  
 ADD ON FOR HOME TYPE DISH WASHER ..... 25 GAL./DAY\*

169 PERSON CAPACITY FOR BUILDING

169 x 4 GAL = 676 GAL./DAY ROUND TO => 680 GAL./DAY  
 1 WASHER x 25 GAL./DAY = 25 GAL./DAY\*

RESULTANT SIZE REQUIRED 705 GAL./DAY

\*DISH WASHER LOAD DETERMINED BY ±10 GALLONS PER LOAD  
 ASSUMED 2 LOADS PER DAY IF USED.  
 †(USE FLEA MARKET OPEN 3 OR LESS DAYS PER WEEK  
 (c) PER LIMITED FOOD SERVICE ESTABLISHMENT 25 GAL./DAY)

SEPTIC TANK SIZE FOR 701-800 GPD = 1650 GALLONS.  
 MINIMUM PUMP TANK IS 900 GALLONS.

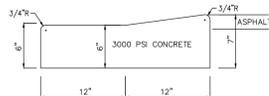
USING 0.80 GALLONS PER SQ.FT. PER DAY FOR LOADING.  
 705 GPD / 0.80 = 882 SQ.FT. MINIMUM DRAIN FIELD AREA  
 882 SQ.FT. x 1.5 = 1,323 SQ.FT. UNOBSTRUCTED AREA (MIN.)

USE 1,325 SQ.FT. AREA FOR UNOBSTRUCTED AREA.

NOTE: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE HEALTH DEPARTMENT  
 AND SHALL SECURE ANY REQUIRED PERMITS FOR THE SEPTIC SYSTEM & WATER SYSTEM.

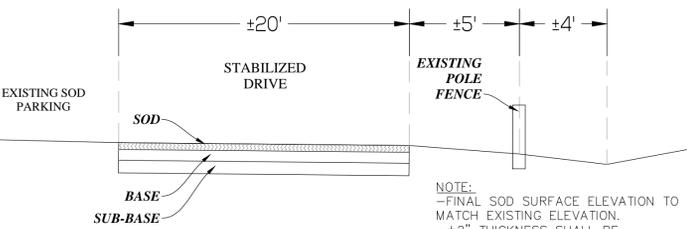
-SEPTIC SYSTEM EXPECTED TO REQUIRE A PUMP ADJACENT TO THE SEPTIC TANK. CONTRACTOR TO  
 PROVIDE ELECTRIC TO THE PUMP SYSTEM. (ESTIMATED PUMP: ½ HP 8.5A @ 115V.)

-EXISTING WELL ON SITE. CONTRACTOR TO UTILIZE EXISTING WELL, PUMP, AND BLADDER TANK FOR  
 PROPOSED CLUBHOUSE BUILDING. CONTRACTOR IS RESPONSIBLE FOR ALL PLUMBING FROM THE WELL  
 TO THE NEW BUILDING THAT IS NEEDED FOR THE SYSTEM TO FUNCTION AS PERMITTED.



1. THE DROP VALLEY CURB SHOULD TRANSITION FROM FULL  
 9" IN HEIGHT TO 0" IN 5'  
 2. THE 6" OUTER EDGE SHOULD BE 2" IN LENGTH  
 3. THE INNER TRANSITION AND FLAT AREA SHOULD BE  
 CENTERED ON PROPERTY LINE  
 4. FOLLOW ALL OTHER APPLICABLE DROP CURB NOTES  
**DROP VALLEY CURB**

**VALLEY CURB NOTES:**  
 -DROP VALLEY CURB TO BE  
 INSTALLED ADJACENT TO ENTIRE  
 PARKING SPACE ALONG EDGE OF  
 ASPHALT.  
 -INTENT TO STRENGTHEN EDGE OF  
 ASPHALT AND PREVENT UNDERMINING  
 OF EDGE OF PAVEMENT.

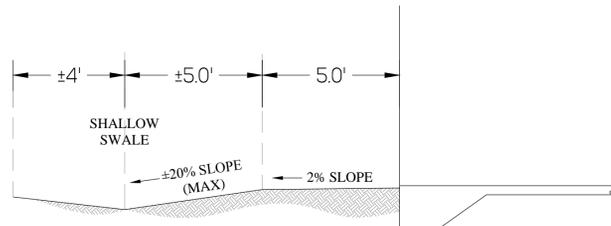


**STABILIZED DRIVE SPECIFICATIONS:**

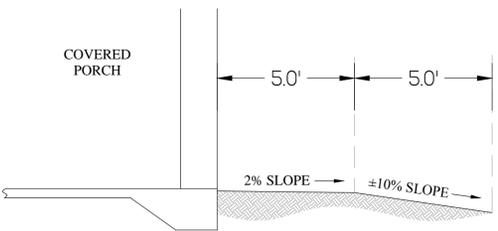
SURFACE: BAHIA SOD  
 BASE: 6" LIMEROCK OR SHELLROCK, 95% DENSITY, LBR 100  
 (AASHTO T180, LIMEROCK BEARING RATIO)  
 STABILIZED SUB-BASE: 8" STABILIZED SUB-BASE, 95% DENSITY, F.B.V. 60 PSI  
 (AASHTO T-180, FLORIDA BEARING VALUE METHOD)

NOTE: AS AN ALTERNATIVE, 9" OF CRUSHED CONCRETE MAY  
 BE SUBSTITUTED FOR THE ENTIRE BASE AND SUB-BASE WITH  
 MATERIAL CERTIFICATIONS FROM A LICENSED TESTING LAB.

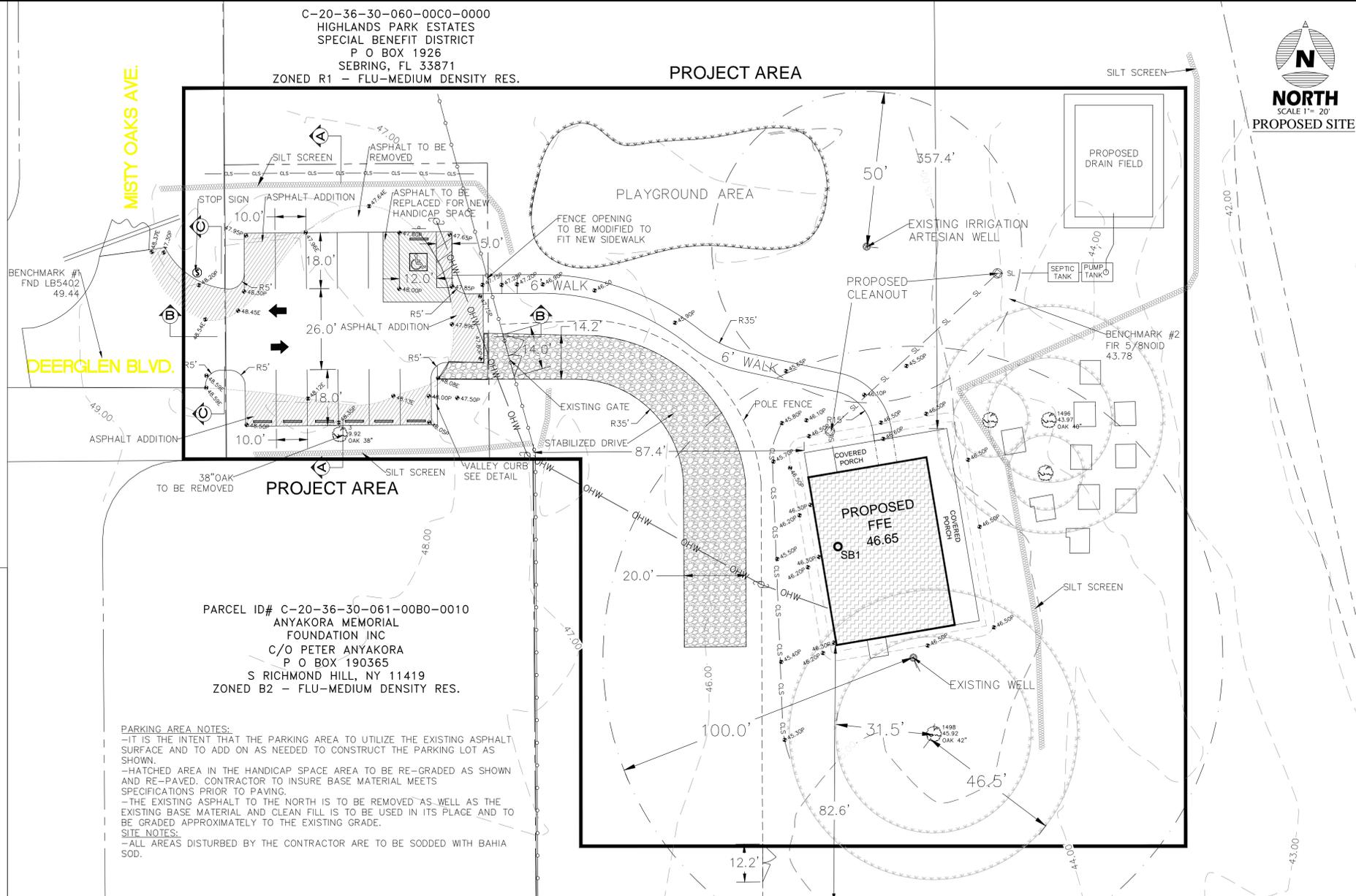
**STABILIZED DRIVE FOR FIRE ACCESS**



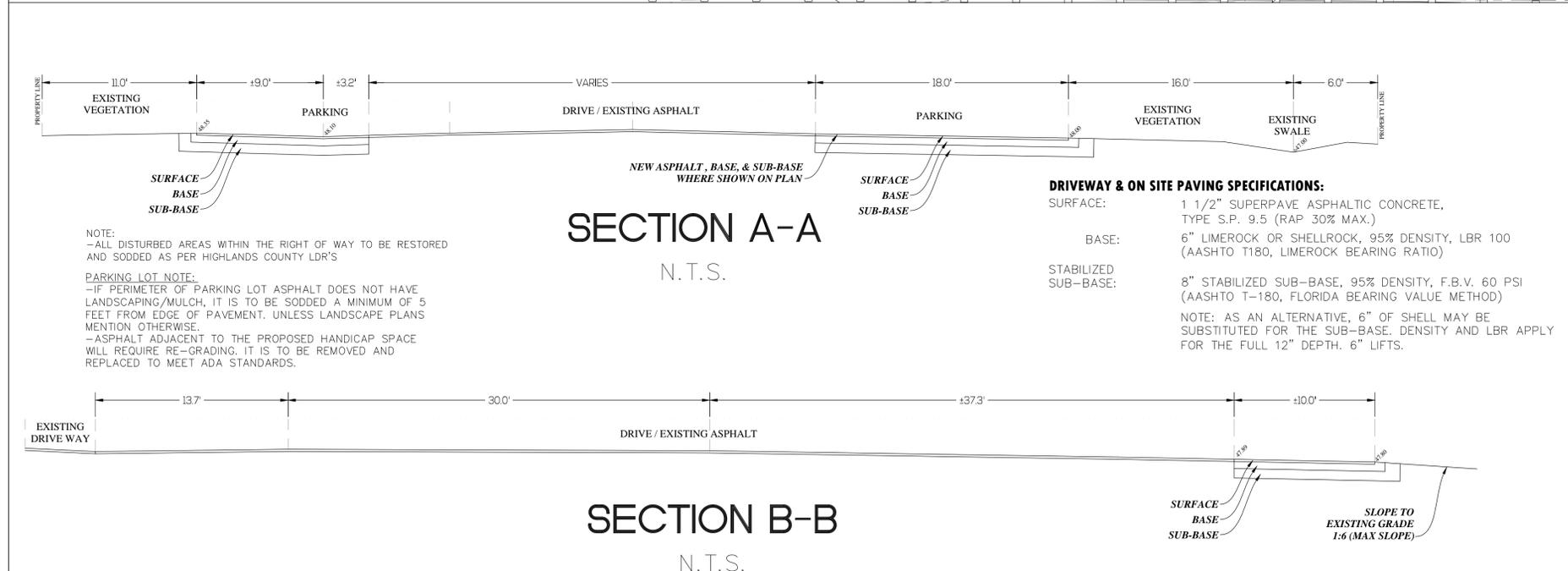
**TYPICAL GRADE WESTERLY SIDE OF BUILDING**



**TYPICAL GRADE ADJACENT TO BUILDING**



**PARKING AREA NOTES:**  
 -IT IS THE INTENT THAT THE PARKING AREA TO UTILIZE THE EXISTING ASPHALT  
 SURFACE AND TO ADD ON AS NEEDED TO CONSTRUCT THE PARKING LOT AS  
 SHOWN.  
 -HATCHED AREA IN THE HANDICAP SPACE AREA TO BE RE-GRADED AS SHOWN  
 AND RE-PAVED. CONTRACTOR TO INSURE BASE MATERIAL MEETS  
 SPECIFICATIONS PRIOR TO PAVING.  
 -THE EXISTING ASPHALT TO THE NORTH IS TO BE REMOVED AS WELL AS THE  
 EXISTING BASE MATERIAL AND CLEAN FILL IS TO BE USED IN ITS PLACE AND TO  
 BE GRADED APPROXIMATELY TO THE EXISTING GRADE.  
**SITE NOTES:**  
 -ALL AREAS DISTURBED BY THE CONTRACTOR ARE TO BE SODDED WITH BAHIA  
 SOD.



**DRIVEWAY & ON SITE PAVING SPECIFICATIONS:**  
 SURFACE: 1 1/2" SUPERPAVE ASPHALTIC CONCRETE,  
 TYPE S.P. 9.5 (RAP 30% MAX.)  
 BASE: 6" LIMEROCK OR SHELLROCK, 95% DENSITY, LBR 100  
 (AASHTO T180, LIMEROCK BEARING RATIO)  
 STABILIZED SUB-BASE: 8" STABILIZED SUB-BASE, 95% DENSITY, F.B.V. 60 PSI  
 (AASHTO T-180, FLORIDA BEARING VALUE METHOD)  
 NOTE: AS AN ALTERNATIVE, 6" OF SHELL MAY BE  
 SUBSTITUTED FOR THE SUB-BASE. DENSITY AND LBR APPLY  
 FOR THE FULL 12" DEPTH. 6" LIFTS.

DATE	REVISION	REMARK
03-08-17	DRJ ROP	ORIGINAL SUBMITTAL
03-28-17	DRJ ROP	COUNTY REVISIONS
04-03-17	DRJ ROP	COUNTY REVISIONS
04-25-17	DRJ ROP	COUNTY REVISIONS
07-12-17	DRJ ROP	REVISIONS
08-02-17	DRJ ROP	COUNTY REVISIONS
09-07-17	DRJ ROP	COUNTY REVISIONS
10-05-17	DRJ ROP	COUNTY REVISIONS

CERTIFICATE OF AUTHORIZATION # 5884  
 ROGER DALE POLSTON P.E. # 48226  
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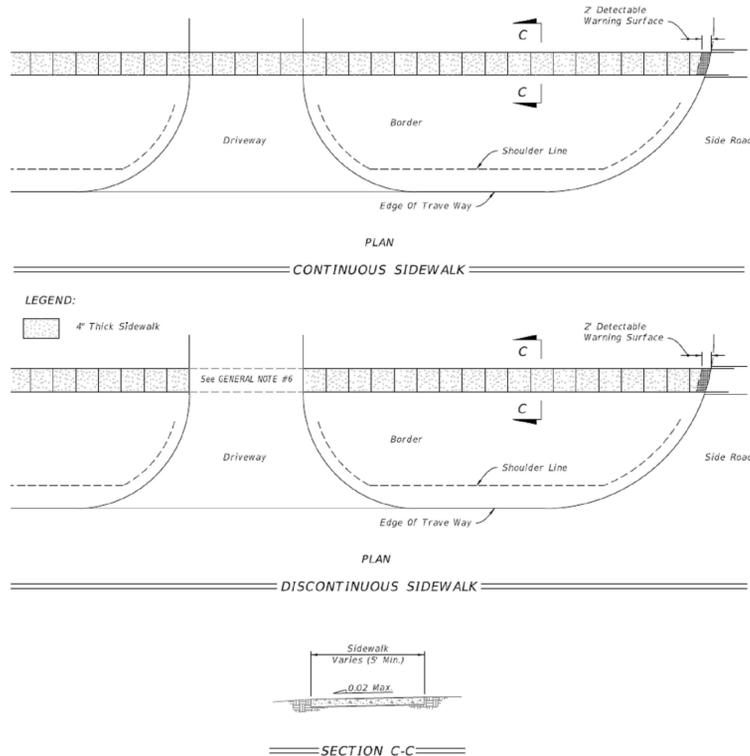
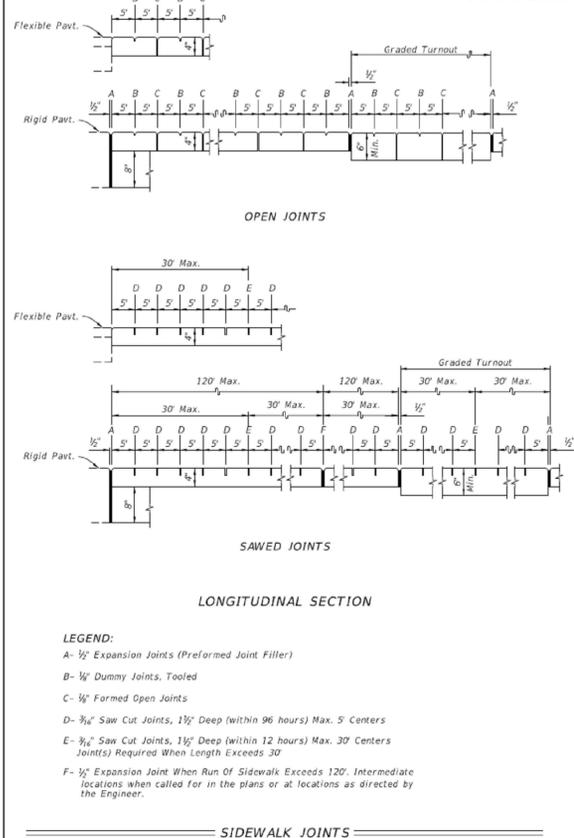
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**HIGHLANDS PARK ESTATES  
 SPECIAL BENEFIT DISTRICT  
 CLUBHOUSE BUILDING  
 PROPOSED SITE**

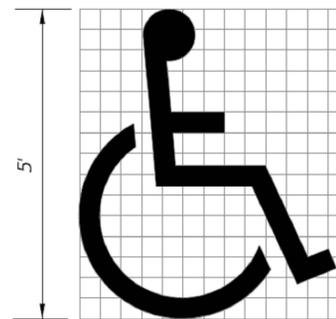
ENGINEER JOB #  
**17014**

FOR BID  
 ORIGINAL SHEET SIZE: 24"x36"  
 DRAWING SCALE  
**1" = 20'**  
 SHEET  
**3 OF 4**

**SUPPLEMENTAL SIDEWALK SPECIFICATIONS**

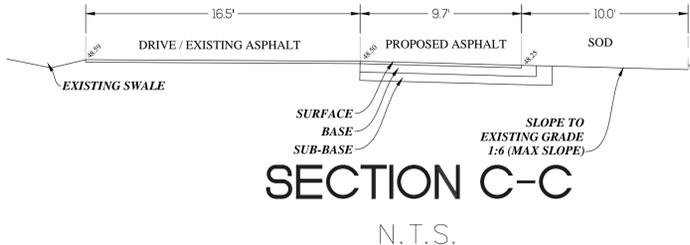


CONCRETE SIDEWALK ON FLUSH SHOULDER ROADWAYS

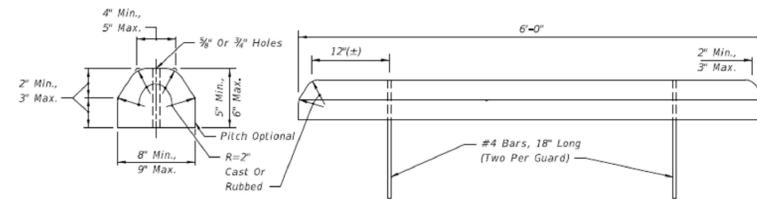


UNIVERSAL SYMBOL OF ACCESSIBILITY

-HANDICAP SYMBOL SPEC. FOR HANDICAP SPACE PAINTING.  
 -HEIGHT 5', COLOR: WHITE  
 -REFER TO FOOT INDEX 17346 FOR FURTHER DETAIL.



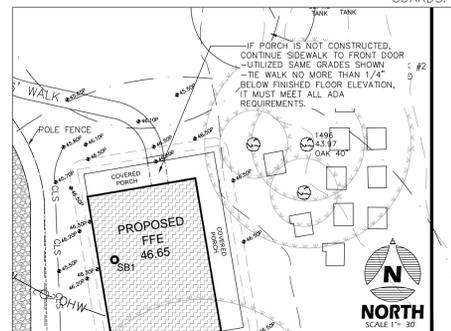
SECTION C-C  
N.T.S.



CONCRETE BUMPER GUARD

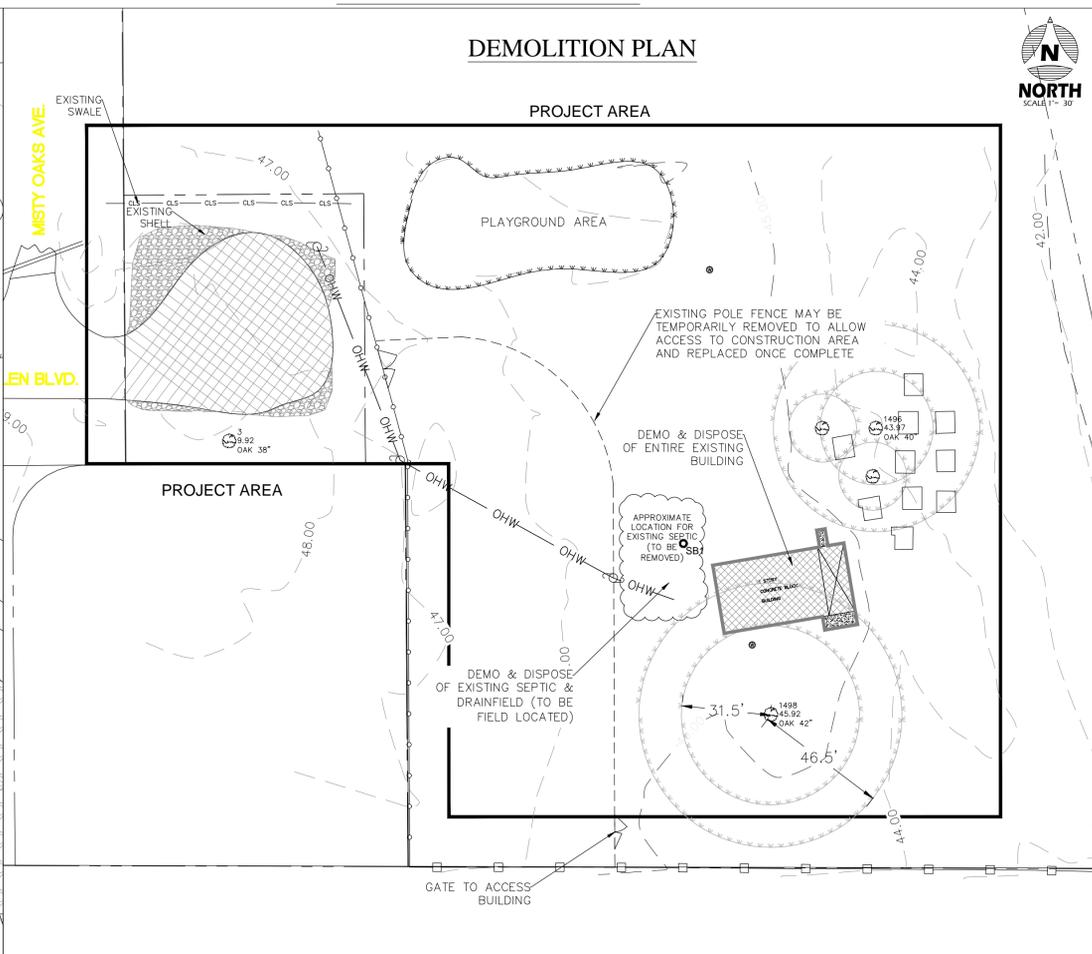
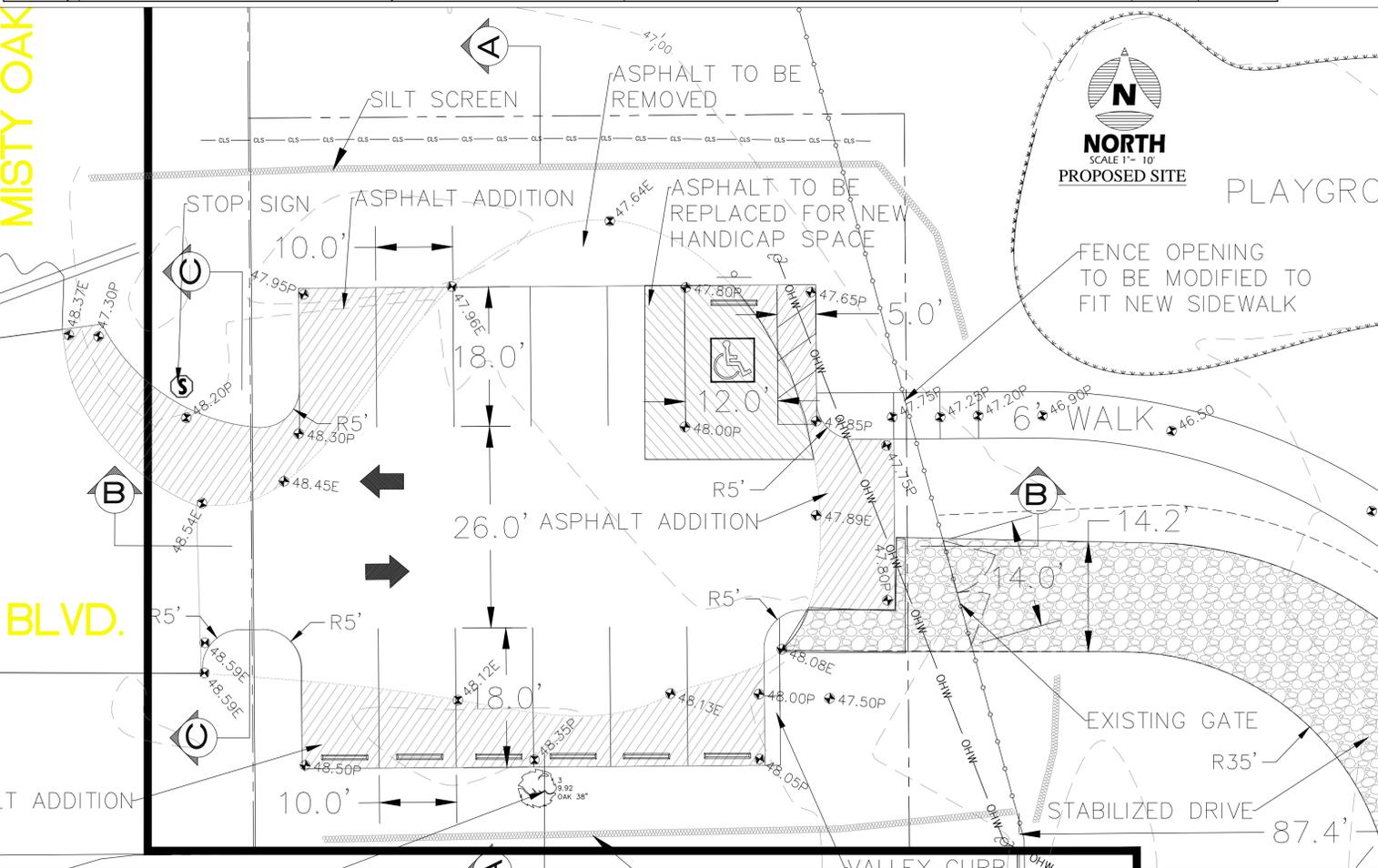
FDOT  
 FY 2017-18  
 DESIGN STANDARDS

INDEX NO.	SHEET NO.
300	2 of 2



PORCH OPTION GRADING

LAST REVISION 11/01/16	DESCRIPTION:	FDOT FY 2017-18 DESIGN STANDARDS	CONCRETE SIDEWALK	INDEX NO. 310	SHEET NO. 2 of 2
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MISTY OAK  
 BLVD.  
 T ADDITION

DATE	REVISION	REMARK
03-08-17	DRU RDP	ORIGINAL SUBMITTAL
03-28-17	DRU RDP	COUNTY REVISIONS
04-03-17	DRU RDP	COUNTY REVISIONS
04-25-17	DRU RDP	COUNTY REVISIONS
07-12-17	DRU RDP	REVISIONS
08-02-17	DRU RDP	COUNTY REVISIONS
09-07-17	DRU RDP	COUNTY REVISIONS
10-05-17	DRU RDP	COUNTY REVISIONS

CERTIFICATE OF AUTHORIZATION # 5884  
 POLSTON ENGINEERING CONSULTANTS  
 MARVIN LUTHER WOLFE P.E. # 46830

**Polston Engineering Inc.**  
 CIVIL ENGINEERING CONSULTANTS  
 2925 KENILWORTH BLVD., SEBRING, FLORIDA 33870  
 863-385-5564 PHONE - 863-385-2462 FAX

ENGINEER JOB #  
**17014**

**HIGHLANDS PARK ESTATES  
 SPECIAL BENEFIT DISTRICT  
 CLUBHOUSE BUILDING  
 DETAILS**

FOR BID  
 ORIGINAL SHEET SIZE: 24" x 36"  
 DRAWING SCALE  
**1" = 10'**  
 SHEET  
**4 OF 4**